



CITY COUNCIL AGENDA

CITY COUNCIL CHAMBERS . 11465 WEST CIVIC CENTER DRIVE . AVONDALE, AZ 85323

WORK SESSION
February 4, 2019
6:00 PM

CALL TO ORDER BY MAYOR

1 ROLL CALL BY THE CITY CLERK

2. INTERNATIONAL BUILDING CODE AMENDMENTS

Staff is proposing an update of the Municipal Code Chapter 4, Buildings and Building Regulations to the current International Code Council construction codes which include the 2018 Editions of the, International Building Code, International Residential Code, International Mechanical Code, International Plumbing Code, International Fuel Gas Code, International Energy Conservation Code, International Existing Building Code, 2017 Edition of the National Electrical Code, and the Avondale Amendments to these codes. At the work session Council will provide guidance and direction to staff.

3. BUDGET PROCESS OVERVIEW

Presentation and discussion pertaining to the fiscal year 2020 budget development.

4. CITY COUNCIL EDUCATION SUPPORT FUNDING

City Council will consider a recommendation from staff regarding the utilization of funding intended to support the academic success of students in Avondale. Input and feedback is requested from City Council.

5 ADJOURNMENT

Council Members of the City of Avondale will attend either in person or by telephone conference call.

Los miembros del Concejo de la Ciudad de Avondale participaran ya sea en persona o por medio de llamada telefonica.

Individuals with special accessibility needs, including sight or hearing impaired, large print, or interpreter, should contact the City Clerk at 623-333-1200 or TDD 623-333-0010 at least two business days prior to the Council Meeting.

Personas con necesidades especiales de accesibilidad, incluyendo personas con impedimentos de vista u oido, o con necesidad de impresion grande o interprete, deben comunicarse con la Secretaria de la Ciudad at 623-333-1200 o TDD 623-333-0010 cuando menos dos dias habiles antes de la junta del Concejo.

Notice is hereby given that pursuant to A.R.S. 1-602.A.9, subject to certain specified statutory exceptions, parents have a right to consent before the State or any of its political subdivisions make a video or audio recording of a minor child. Meetings of the City Council may be audio and/or video recorded and, as a result, proceedings in which children are present may be subject to such recording. Parents, in order to exercise their rights may either file written consent with the City Clerk to such recording, or take personal action to ensure that their child or children are not present when a recording may be made. If a child is present at the time a recording is made, the City will assume that the rights afforded parents pursuant to A.R.S. 1-602.A.9 have been waived.

De acuerdo con la ley A.R.S. 1-602.A.9, y sujeto a ciertas excepciones legales, se da aviso que los padres tienen derecho a dar su consentimiento antes de que el Estado o cualquier otra entidad politica haga grabaciones de video o audio de un menor de edad. Las juntas del Concejo de la Ciudad pueden ser grabadas y por consecuencia, existe la posibilidad de que si hay

menores de edad presentes estos aparezcan en estos videos o grabaciones de audio. Los padres puedan ejercitar su derecho si presentan su consentimiento por escrito a la Secretaria de la Ciudad, o pueden asegurarse que los niños no estén presentes durante la grabación de la junta. Si hay algún menor de edad presente durante la grabación, la Ciudad dará por entendido que los padres han renunciado sus derechos de acuerdo a la ley contenida A.R.S. 1-602.A.9.



CITY COUNCIL AGENDA

SUBJECT:

International Building Code Amendments

MEETING DATE:

2/4/2019

TO: Mayor and Council

FROM: Tracy Stevens, Development and Engineering Services Director

THROUGH: Charles Montoya, City Manager

PURPOSE:

Staff is proposing an update of the Municipal Code Chapter 4, Buildings and Building Regulations to the current International Code Council construction codes which include the 2018 Editions of the, International Building Code, International Residential Code, International Mechanical Code, International Plumbing Code, International Fuel Gas Code, International Energy Conservation Code, International Existing Building Code, 2017 Edition of the National Electrical Code, and the Avondale Amendments to these codes. At the work session Council will provide guidance and direction to staff.

BACKGROUND:

The City periodically updates its building codes to stay current with industry standards and be consistent with the building regulations of neighboring local communities. The Municipal Code Chapter 4 Buildings and Building Regulations currently enforces the 2012 series of the International Building Code, the International Residential Code, and the International Mechanical Code; the International Plumbing Code; the International Energy Conservation Code, the 2011 National Electrical Code and the related Amendments. These codes were adopted by the City Council in June of 2013.

The City has been regularly adopting current versions of national codes since 1989. The effective date of the code adoption has traditionally coincided with the start of the fiscal year. The International Code Council was formed when the three largest code making bodies joined forces to provide uniformity across the nation. The International Code Council is the foremost building codes writing body in the world. The International Codes have been adopted in every state in the U.S. as well as in 57 Countries outside the U.S.

The International Code Council develops codes with the combined efforts of various affected parties including the Arizona Building Officials, the National Association of Homebuilders, the Federal Emergency Management Agency (FEMA) and the American Institute of Architects among others. Staff has been involved both as a voting member of the International Code Council and as a member of the Arizona Building Officials Code Amendment Committee. The most recent version available for adoption is the 2018 series. The National Electrical Code was developed by the National Fire Protection Association (NFPA) and the 2017 edition is the current version available.

For the purposes of uniformity, a group of Building Officials and Fire Officials from across the Valley gathered to formulate a set of uniform code amendments and held regular meetings throughout 2018 in various locations; including here at Avondale City Hall. The group's intention was to formulate a comprehensive set of amendments all jurisdictions could agree on. As each jurisdiction has individual adoption and departmental needs, as many of the proposed amendments as practicable have been incorporated into the Avondale Amendment document.

Many other Cities in the valley are in the process of adopting or have adopted the 2018 International Construction Codes. Major stakeholders including, The Home Builders Association of Central Arizona, Arizona Multi-Housing Association, Salt River Project, Arizona Public Service, Valley Partnership, and City Departments have been involved in the development and review of the amendment package. The proposed amendments do not address the Fire Code. The Fire Department will update the Fire Code separately.

DISCUSSION:

Some of the major code changes in the 2018 International Building Code reflect improved technological advances in construction and materials, knowledge gained in many tragic events that have occurred recently worldwide that effect building construction such as severe weather, terrorist attacks, high rise building fires, and urban wild land fires. The Codes are traditionally reactive to these events to ensure the public's health, safety, and welfare in the built environment. The following table identifies ten of the more specific and important code changes that are found in the 2018 versions, which clarifies the need to remain on current versions of the construction codes.

IBC Section 403	High Rise Buildings	This code change is a direct result of the lessons learned from 9/11, and high-rise fires in England, France, and Dubai. It requires additional egress stair well, backup power for fire protection systems and egress elevators to speed evacuation.
IBC Section 423	Storm Shelters	A completely new code section addressing storm shelters and buildings designated as storm shelters during severe weather events. Requires significant increases in wind resistance requirements in Tornado and Hurricane prone regions. With the increased frequency of severe weather events across the country, the need for storm shelters to be constructed to a higher standard has become clear.
IBC Section 428	Higher Education Laboratories	A new code section addressing the storage and handling of chemicals and hazardous materials in college and university laboratories. This is a direct response to multiple lab fire and chemical releases such as the lab fire fatality on the campus of UCLA in 2008, and a Chemistry Lab explosion on the campus of Texas Tech University which severely injured a graduate student in 2011. The section sets limits for the quantities of materials that can be used and stored in these buildings.
IBC Section 1004	Occupant Load	Changed long standing occupant load calculation factors for mercantile and office uses. Under previous codes occupant loads were calculated based on net floor area. The calculations will now be based on gross floor area which will reduce

		occupant loads in office uses and increase them slightly in mercantile uses.
IBC Section 1010	Doors, Gates, Turnstiles	This section has been modified to allow schools to lock doors to resist entrance of intruders into classrooms and offices. This code modification is a result of the many active shooter incidents that have plagued our country recently. The locked doors are still required to be openable from the interior without a key or any special knowledge such as panic hardware.
IRC Section R324	Solar Energy Systems	Additional requirements for roof mounted Photo Voltaic power generating systems have been added to this section to align with the fire code and electrical code such as free roof area for fire operations, equipment listing requirements, wind and roof loads.
IRC Section R327	Stationary Storage Battery Systems	This is a complete new section that was lobbied for by the Building Officials across the country. As technology has advanced in energy storage, the codes have had to catch up to ensure safe installations and connections to the home electrical system. Prior to this section officials and inspectors were left to try and establish if the installed system was safe and would not cause a fire hazard.
IRC Section R507	Exterior Decks	There have been many exterior deck and balcony failures of the past 5 years nationwide that have been highly publicized such as the collapse that killed six students at California Berkley in 2015 and in July 2018 a collapse sent 12 people to the hospital in Pennsylvania. This section has been completely rewritten to increase the materials, structural design, and connection requirements for decks and balconies to increase the overall safety and resiliency.
IRC Section N1104	Electrical Power and Lighting Systems	Requires that 90 percent of all light outlets in the home be of the high efficacy type. This nearly doubles the current requirement which is at 50 %. This will have the effect of reducing energy consumption and energy demand in new homes. One may ask why not all lighting outlets; the 90% rule will still allow decorative lighting such as gas lamps to remain or be installed.
IRC Section E3703	Required Branch Circuits	An update to reflect that many homeowners no longer use the garage solely for the parking of vehicles but have storage, work shop, and additional appliances located in their garages. This section now requires a minimum of one duplex receptacle per garage bay and all garage outlets are now required to be on a separate circuit.

BUDGET IMPACT:

If adopted, the new codes will include changes to the building valuation table which will result in a slight increase in the value of construction which is used to calculate building permit and plan review fees.

RECOMMENDATION:

This item is for information and discussion.

ATTACHMENTS:**Description**

[Code Amendments](#)

[HBACA Letter of Support](#)

[Arizona Multihousing Association Letter of Support](#)

[SRP Letter of Support](#)

**THE AVONDALE AMENDMENTS TO
THE 2018 INTERNATIONAL BUILDING CODE,
THE 2018 INTERNATIONAL RESIDENTIAL CODE,
THE 2018 INTERNATIONAL EXISTING BUILDING CODE
THE 2017 NATIONAL ELECTRICAL CODE
THE 2018 INTERNATIONAL MECHANICAL CODE
THE 2018 INTERNATIONAL PLUMBING CODE
THE 2018 INTERNATIONAL FUEL GAS CODE
THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE**

**AVONDALE AMENDMENTS
TO THE 2018 INTERNATIONAL BUILDING CODE**

The International Building Code, 2018 Edition, is amended in the following respects:

[A]Section 101.1 is amended as follows:

[A] Section 101.1 Title. These regulations shall be known as the Building Code of the City of Avondale, hereinafter referred to as "this code."

[A]Section 101.2.1 is deleted in its entirety and replaced with the following:

[A] Section 101.2.1 Appendices. The following appendices are adopted by the City of Avondale: Appendices A, C, and I.

[A]Section 101.4 is deleted in its entirety and replaced with the following:

[A] Section 101.4 Referenced codes. The other codes listed in Sections 101.4.1 through 101.4.7 and referenced elsewhere in this code shall be considered part of the requirements of this code to the prescribed extent of each reference. If another code is referenced elsewhere in this code and has not been adopted, then that section shall be considered invalid.

[A]Section 101.4.3 is amended as follows:

[A] Section 101.4.3 Plumbing. Delete the last sentence "The provisions of the International Private Sewage Disposal Code shall apply to private sewage disposal systems".

[A]Section 101.4.4 is amended as follows:

[A] Section 101.4.4Property Maintenance. Reserved.

[A]Section 104.10.1 Delete "Building Official" and replace with "City of Avondale Flood Plain Manager"

[A]Section 105.2(2) is amended to read as follows:

Fences not over 6 feet high.

[A]Section 105.3.2 is deleted in its entirety and replaced with the following:

[A] Section 105.3.2 Time limitation of application. An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of last completed review for correction or approval, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding

180 days each. The extension shall be requested in writing and justifiable cause demonstrated.

[A]Section 109.3 is amended as follows:

[A] Section 109.3 Building Permit Valuation. The following shall be added after the last sentence:

For the purposes of determining valuations, the following charts, titled “Valuation Chart” and “Valuation Chart for Other” shall be used.

VALUATION CHART

Group 2012 International Building Code		Types of Construction, Cost per Square Foot								
		IA	IB	IIA	IIB	IIIA	IIIB	IV	VA	VB
A-1	Assembly, Theaters, with stage	234	226	220	211	199	193	205	182	175
A-1	Assembly, Theaters, without stage	214	206	201	192	180	173	185	162	156
A-2	Assembly, nightclubs	183	178	173	166	157	152	160	142	137
A-2	Assembly, restaurant, bars, banquet hall	182	177	171	165	155	151	159	140	136
A-3	Assembly, churches	216	208	203	194	182	176	187	165	158
A-3	Assembly, general, community halls, libraries, museums	181	173	166	158	145	140	151	128	122
A-4 / A-5	Assembly, arenas	213	205	199	191	178	173	184	160	155
B	Business	187	180	174	165	151	145	159	132	126
E	Educational	198	191	186	177	165	157	171	144	140
F-1	Factory and industrial, moderate hazard	112	107	101	96	87	83	93	73	68
F-2	Factory and industrial, low hazard	111	106	101	96	87	82	92	73	67
H-1	High hazard, explosive	105	100	94	90	81	76	85	67	N.P.
H-234	High hazard	105	100	94	90	81	76	85	67	61
H-5	HPM	187	180	176	169	155	151	169	139	126
I-1	Institutional, supervised environment	188	181	176	169	155	151	169	139	135
I-2	Institutional, hospitals	314	307	301	293	277	N.P.	286	259	N.P.
I-2	Institutional, nursing homes	217	211	205	196	183	N.P.	190	164	N.P.
I-3	Institutional, restrained	212	206	200	191	178	171	184	160	151
I-4	Institutional, day care facilities	188	181	176	169	155	151	169	139	135
M	Mercantile	136	131	125	119	109	106	114	95	91
R-1	Residential, hotels	189	183	178	170	157	153	170	141	136
R-2	Residential, multiple family	159	152	147	140	127	123	140	111	107
R-3	Residential, one and two family	148	144	140	137	132	128	135	123	116
R-4	Residential, care/assisted living facilities	188	181	176	169	155	151	167	139	135
S-1	Storage, moderate hazard	104	99	92	89	79	75	84	65	60
S-2	Storage, low hazard	103	98	92	88	79	74	83	65	59

U	Utility, miscellaneous	80	76	71	68	61	57	65	48	46
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VALUATION CHART FOR OTHER

Other Types of Construction	Cost per Square Foot
Tenant Improvement - Vanilla Shell	\$ 20.00
Tenant Improvement - Office	\$ 20.00
Tenant Improvement - Restaurant	\$ 40.00
Tenant Improvement - Medical	\$ 50.00
Residential Patio addition, etc.	\$ 7.00
Residential Room Addition, Remodel, garage/ carport addition, etc	\$ 20.00

[A]Section 109.4 is amended as follows:

[A] Section 109.4 Work Commencing Before Permit Issuance. The following shall be added after the last sentence:

This fee shall be equal to double the amount of the Building, Plan Review, Electric, Plumbing and Mechanical permit fees required by this code. The payment of such fee shall not exempt an applicant from compliance with all other provisions of either this code or other requirements, nor from the penalty prescribed by law.

[A]Section 109.6 is deleted in its entirety and replaced with the following:

[A] Section 109.6 Refunds. The building official shall be permitted to authorize refunding of a fee paid hereunder which was erroneously paid or collected. The building official shall be permitted to authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code. No refund shall be made once an (any) inspection has been conducted under the permit. The building official shall be permitted to authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any review has taken place. The building official shall not be permitted to authorize refunding of any fee paid except upon written application filed by the original permittee not more than 180 days after the date of permit issuance.

Section 113 is hereby deleted and replaced by the following:

[A]Section 113 Board of Appeals is deleted in its entirety and replaced with the following:

[A]Section 113.1 General. Decisions of the Chief Building Official shall be appealed to a hearing officer appointed by the City Manager. An application for an appeal of any order, decision or interpretation made by the Chief Building Official shall be filed in writing and shall be delivered to the Building Official within thirty (30) calendar days of the date of the order, decision or interpretation. The decision of the Chief Building Official may be reversed or modified by the hearing officer upon his/ her finding that:

- a. The decision of the Chief Building Official is not supported by a reasonable interpretation and application of the city code to the specific facts presented, or the city code does not apply to the facts presented.
- b. The reversal or modification of the Chief Building Official's decision will not create or manifest injustice or affect the intent of the city code.
- c. The reversal of the Chief Building Official's decision will not be detrimental to the public health, safety and welfare.

[A]Section 113.2 Limitations of Authority. The hearing officer shall have no authority relative to interpretation of the administrative provisions of the codes, nor shall the hearing officer be empowered to waive the requirements of the codes.

[A]Section 201.4 Add the following to the end of the section:

[A]Section 201.4 Terms not defined.

Merriam-Webster's Unabridged Dictionary of the English Language shall be considered as providing ordinarily accepted meanings.

[A]Section 308.2.4 is amended as follows:

[A]308.2.4 Remove the words "or Section P2904 of the International Residential Code."

[A]Section 308.3.2 is amended as follows:

[A]308.3.2 Remove the words "or Section P2904 of the International Residential Code."

[A]Section 310.3 is amended by adding the following item to the list of R-2 residential occupancies:

Residential condominiums

[A]Section 406.3 is hereby amended by adding the following subsection:

[A]406.3.4 Open Carports. Carports for other than single family residential use which are open on all sides and constructed entirely of noncombustible materials, except for an approved fascia, shall not exceed 5,000 square feet and shall be located no closer than 3 feet to an adjacent lot line, nor closer than 6 feet to any projecting element of an adjacent building or structure. The edge of the carport roof shall be used to measure the separation distance to adjacent lot lines, buildings or structures.

[A]Section 707.3.11 Electrical Rooms with Service Entrance Equipment is hereby added and shall read as follows:

Fire-resistance rated walls and/ or horizontal assemblies with a fire-resistance rating of one hour shall be provided to separate an electrical room containing service entrance equipment from adjacent rooms and spaces.

[A]Section 901.1 Scope. Is amended as follows:

[A]Section 901.1 Scope. Add the following paragraph:

Code sections preceded by [F] shall be maintained and administered under the International Fire Code as adopted by the City of Avondale. Where there is a conflict regarding fire suppression system requirements and/or fire alarm system requirements between this code and the Fire Code, the Fire Code shall prevail.

[A]Section 901.5 is amended as follows:

[A]Section 901.5 Acceptance tests. Delete the last sentence and replace with the following:

“It shall be unlawful to use, occupy, or furnish any portion of a structure until the fire protection systems of the structure have been tested and approved.”

[A]Section 1010.1.10: The second paragraph is hereby amended deleting the words "and over 6 feet (1,829mm) wide."

[A]Section 1102.1 is deleted in its entirety and replaced with the following:

[A]Section 1102.1 Design. Buildings and facilities shall be designed and constructed to be accessible in accordance with this code. ICC A117.1, and the "Arizonans with Disabilities Act" (Arizona Revised Statutes, Title 41, Chapter 9, Article 8), and the "Arizonans with Disabilities Act Implementing Rules" (Arizona Administrative Code, Title 10, Chapter 3, Article 4), which rules incorporate the federal "2010 Americans with Disabilities Act Standards for Accessible Design," and shall apply to new construction.

[A]Revision to Table 1607.1

[A]Revise Table 1607.1 as follows:

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
25. Residential One-and two-family dwellings Habitable attics and sleeping areas ^k	30 <u>40</u>	

[A]Section 1704.3 Statement of Special Inspections is amended by deleting the Exception.

[A]Section 1705.4 is amended as follows.

[A]Section 1705.4 Masonry Construction: The following Exceptions shall be added:

Exception 4: Masonry fences Six(6) feet or less in height above grade.

[A]Table 2902.1 Minimum Number of Required Plumbing Fixtures is hereby amended as follows:

Revise footnote “e” to “25 or fewer.”

Delete footnote “f” as written in the code and reserve location.

[A]Section 2902.6 is amended by revising “15” to “25.”

[A]Section 3109 is deleted in its entirety and replaced with the following:

[A]Section 3109 Swimming Pool Enclosures and Safety Devices. Swimming pool enclosures and safety devices shall be installed pursuant to Arizona Revised Statutes § 36-1681.

AVONDALE AMENDMENTS TO THE 2018 INTERNATIONAL RESIDENTIAL CODE

The International Residential Code 2018 edition is amended as follows:

[A]Section R101.1 is amended as follows:

[A]Section R101.1 Title. These regulations shall be known as the Residential Building Code of the City of Avondale, hereinafter referred to as "this code."

[A]Section R102.1.2 RESNET Testing and Protocol- Add new section as follows.

[A]Section R102.1.2 RESNET Testing and Protocol. The Residential Energy Services Network(RESNET) Mortgage Industry National Home Energy Rating System Standards Protocol for third party testing and inspections shall be deemed to meet the requirements of sections R402.4.1.1, R402.4.1.2 and R403.2.2 and shall meet the following conditions.

1. Third Party Testing and Inspections shall be completed by a RESNET certified Rater or Field Rating Inspector and shall be subject to RESNET Quality Assurance Field Review procedures.
2. Sampling in accordance with Chapter 6 of the RESNET Standards shall be performed by Raters or Field Inspectors working under a RESNET Accredited Sampling Provider.
3. Third Party Testing is required for the following items:
 - a. R402.4.1.1 – Building Envelope- Thermal Air Barrier Checklist
 - b. R402.4.1.2 – Testing – Air Leakage Rate
 - c. R403.2.2 – Sealing – Duct Tightness
4. The other requirements identified as “mandatory” in Chapter 4 shall be met.
5. Alternate testing and inspection programs and protocols shall be allowed when approved by the Code Official.

[A]Section R102.5 is deleted in its entirety and replaced with the following:

[A]102.5 Appendices. Provisions in the appendices shall not apply unless specifically adopted. The following appendices are adopted:

Appendix C	EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-VENT VENTING SYSTEMS
Appendix H	PATIO COVERS
Appendix Q	TINY HOUSES
Appendix T	SOLAR READY PROVISIONS- DETACHED ONE AND TWO-FAMILY DWELLINGS AND TOWNHOUSES

[A]Section R105.3.2 is deleted in its entirety and replaced with the following:

[A]Section R 105.3.2 Time Limitation of application. An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application had been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one extension of time for a period not to exceed 180 days. The extension shall be requested in writing and justifiable cause demonstrated. Before such work recommences, the extension will be granted provided no changes have been made or will be made in the original construction documents for such work and provided further that such suspension or abandonment has not exceeded one year.

[A]Section R108.6 Work commencing before permit issuance: The following shall be added after the last sentence:

This fee shall be equal to double the amount of the Building, Plan Review, Electric, Plumbing and Mechanical permit fees required by this code. The payment of such fee shall not exempt an applicant from compliance with all other provisions of either this code, any other City of Avondale regulation, nor from the penalty prescribed by law.

[A]Section R201.4 add the following to the end of the section:

[A]Section R201.4 Terms not defined.

Merriam Webster's Unabridged Dictionary of the English Language shall be considered as providing ordinarily accepted meanings.

Section R202 Definitions The existing defined term is deleted in its entirety and replaced with:

[A] Fire Separation Distance. The distance measured from the building face to one of the following:

1. To the closest interior lot line.
2. To the centerline of a street, an alley or a public way.
3. To an imaginary line between two buildings on the lot. The distance shall be measured at the right angle from the face of the framing.

[A]Table R301.2(1) Climatic and Geographic Design Criteria is amended to read as follows:

GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY ^f	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP ^e	ICE BARRIER UNDERLAYMENT REQUIRED ^h	FLOOD HAZARDS ^g	AIR FREEZING INDEX ⁱ	MEAN ANNUAL TEMP ⁱ
	SPEED ^d (mph)	Topographic effects ^k		Weathering ^a	Frost line depth ^b	Termite ^c					
N/A	115mph (ultimate) 89 mph (ASD)	None	B	Negligible	N/A	Moderate to Heavy	32° F	No	FEMA	N/A	72.6° F

[A]Table R301.5 is amended to modify the following:

USE	LIVE LOAD
Habitable attics and attics served with fixed stairs	30 <u>40</u>
Sleeping rooms	30 <u>40</u>

(Remainder of the table remains unchanged)

[A]Section R302.5.1 is amended by adding the following to the end of this subsection:

Doors providing opening protection shall be maintained self-closing, self-latching and tight-fitting.

[A] Section R309.5 is reserved

[A]Section R312.2 is amended as follows:

[A]Section R312.1.3 Opening limitations. The following sentence is added to the end of the first paragraph:

Required guards shall not be constructed with horizontal rails or another ornamental pattern that results in a ladder effect.

[A]Section R313.1 is amended as follows:

[A]R313.1 Townhouse automatic fire sprinkler systems. An automatic residential fire sprinkler system may be installed in townhouses.

Delete the exception in its entirety.

[A]Section R313.2 is amended as follows:

[A]R313.2 One- and two-family dwellings automatic fire systems. An automatic residential fire sprinkler system may be installed in one- and two-family *dwellings*.

Delete the exception in its entirety.

[A]Section R326 is deleted and reserved.

[A]Section R505.1 is hereby amended by replacing it in its entirety as follows:

[A]Section R505.1 Engineered Design Required. For Cold-Formed Steel Floor Framing the project drawings, details, calculations and specifications are required to bear the seal of an Arizona registered design professional.

[A]Section R804.1.1 shall be amended by replacing it in its entirety as follows:

[A]R804.1.1 Engineered Design Required. For cold-formed steel roof framing the project drawings, details, calculations and specifications are required to bear the seal of an Arizona registered design professional.

[A]Section N1101.4.1 RESNET Testing and Protocol. Add new section as follows.

[A]Section N1101.4.1 RESNET Testing and Protocol. The Residential Energy Services Network(RESNET) Mortgage Industry National Home Energy Rating System Standards Protocol for third party testing and inspections shall be deemed to meet the requirements of sections R402.4.1.1, R402.4.1.2 and R403.2.2 and shall meet the following conditions.

1. Third Party Testing and Inspections shall be completed by a RESNET certified Rater or Field Rating Inspector and shall be subject to RESNET Quality Assurance Field Review procedures.
2. Sampling in accordance with Chapter 6 of the RESNET Standards shall be performed by Raters or Field Inspectors working under a RESNET Accredited Sampling Provider.
3. Third Party Testing is required for the following items:
 - a. R402.4.1.1 – Building Envelope- Thermal Air Barrier Checklist
 - b. R402.4.1.2 – Testing – Air Leakage Rate
 - c. R403.2.2 – Sealing – Duct Tightness
4. The other requirements identified as “mandatory” in Chapter 4 shall be met.
5. Alternate testing and inspection programs and protocols shall be allowed when approved by the Code Official.

[A]Section N1103.3.1 is amended as follows:

[A]Section N1103.3.1 Insulation (Prescriptive) Delete the existing exception and replace with:

Exceptions:

1. Ducts or portions thereof located completely inside the building thermal envelope.
2. Supply ducts may be insulated to a minimum-6 when one or more of the following conditions are met:
 - 2.1. Minimum SEER rating of space heating/cooling system is increased to 15
 - 2.2. Maximum U-factor is decreased to 0.35 and maximum SHGC is decreased to 0.22 for all fenestration products.
 - 2.3. Wall cavity insulation minimum R-value is increased to R-19.
 - 2.4. Residential Buildings that meet the requirements of sections R102.1.1 or R405.
 - 2.5. Residential buildings with attic radiant barriers in accordance with ASTM C1313 and installed in accordance with ASTM C1743.

[A]Table N1106.4(R406.4) Maximum Energy Rating Index for Climate Zone 2 is deleted and replaced with 64.

Climate Zone	Energy Rating Index
2	64

Remainder of the table unchanged.

[A]Section G2415.12 is amended as follows:

[A]Section G2415.12 (IFGC404.12) Minimum burial depth. Add the following after “below grade”: for metal piping and 18 inches (457mm) for plastic piping.

[A]Section G2415.12.1 Individual outside appliances is deleted and reserved.

[A]Revision to Section P2804.6.1 Requirements for Discharge Pipe
Revise number 2 of Section P2804.6.1 to read as follows:

2. Discharge through an air gap located in the same room as the water heater except where the discharge is to the outdoors, not subject to freezing and the piping terminates not less than 6 inches (152 mm) and not more than 12 inches (305mm) above grade.

[A]Section R3401.2 Scope is amended as follows: Add following sentence to end of section: "where provisions of this code differ from the 2017 National Electrical Code the provisions of the 2017 National Electrical Code shall prevail.

[A]Section R3706.5 Back-fed devices is deleted and reserved.

[A]Section T103.6 Capped Roof Penetration Sleeve is deleted and reserved.

[A]Section T103.8 Interconnection Pathway is deleted and reserved.

AVONDALE AMENDMENTS

TO THE 2018 EXISTING BUILDING CODE

[A]Section 101.1 is amended to read as follows:

[A]Section 101.1 Title. These regulations shall be known as the Existing Building Code of the City of Avondale, hereinafter referred to as "this code."

[A]Section 305.4.2 is amended by adding item 7 as follows:

7. A minimum of one accessible toilet room.

Change all references to Items from 1-6 to 1-7 in the remainder of the section.

[A]Section 305.8.10 is amended by adding the following:

As an alternative, in existing toilet rooms and bathing rooms, one fixture (water closet or urinal) may be removed (where two or more fixtures exist) to create the required space for an accessible water closet.

[A]Section 1203.3 is hereby amended by revising the title and the first sentence to read as follows:

[A]1203.3 Means of Egress and Emergency Escape and Rescue. Existing window openings, door openings and corridor and stairway widths less than ...(remaining text unchanged).

[A]Section 1204.6 is hereby amended by revising the title and the first sentence to read as follows:

[A]Section 1204.6 Means of Egress and Emergency Escape and Rescue.
Existing window openings, door openings and corridor and stairway widths less than
...(remaining text unchanged).

**AVONDALE/MAG AMENDMENTS
TO THE 2017 NATIONAL ELECTRICAL CODE**

The National Electrical Code, 2017 Edition, is amended in the following respects:

[A]Article 90.1 (A) is amended to read as follows:

90.1 (a) Practical safeguarding. The purpose of this code is the practical safeguarding of persons and property from hazards arising from the use of electricity. Any and all electrical work for light, heat, power, or any other purposes shall be installed in conformity with the rules and regulations as set forth in this code and that document titled, *National Electrical Code, 2017 edition*, also known as *NFPA 70*, and in conformity with the rules, policies, regulations and amendments as set forth by the building official. This Code is not intended as a design specification or an instruction manual for untrained persons.

[A]Article 90.2(A)(5) is added to read as follows:

[A]Special Inspection. The City of Avondale requires Special Electrical Inspections for the types of work specified below as added through this subsection and subsection 90.2(a)(6). Special Electrical Inspections include, but are not limited to, testing or observation of the work assigned for conformance with the approved design drawings and specifications, and submission of appropriate inspection reports or certificates to the City of Avondale Electrical Inspector.

The Special Electrical Inspector shall be a qualified person who demonstrates competence to the satisfaction of the Building Official for the type of work requiring Special Inspection. These individual(s) or firm(s) shall be responsible for performing the Special Inspection tasks and reports required by the City of Avondale. The Special Electrical Inspector(s) shall be an independent, third-party individual, firm or testing agency and shall not be the installing contractor or any other person responsible for the work.

Electrical Special Inspection:

1. Ground-fault protection performance tests for equipment provided or required to have ground-fault protection.
2. Switchboard, panelboards, motor control center, and all other equipment rated 1,000 amps or more; or over 600 volts. (over-potential test, also known as a dielectric withstand test, and commonly referred to as a hi-pot test.)
3. Emergency and standby power systems including: switchboards, panelboards, distribution boards, transfer equipment, power source, conductors, fire pumps, exhaust and ventilation fans.
4. Other special inspections as required by the building official.

[A]ARTICLE 90.2A(6) is added to read as follows:

Electrical observation. Electrical observation by the 'Registrant of Record' shall be provided for the following installations:

1. Installation or alteration of that portion of a health care facility electrical system which fall within the scope of article 517, Part 3- "Essential Electrical System" of the *2017 National Electrical Code*.
2. Installations or alterations of high voltage electrical systems, which exceed 600 volts.
3. Installations or alterations of electrical systems within locations classified as hazardous by the provisions of the *2017 National Electrical Code*, or the currently adopted International Fire Code, except for gasoline dispensing installations and systems located within storage garages, repair garages or lubritorium.
4. When electrical observation is specifically required by the building official.

The owner shall direct the Engineer responsible for the electrical design, or another Engineer designated by the Engineer responsible for the electrical design to perform visual observation of complex electrical equipment and systems for general conformance to the approved plans and specifications, including but not limited to, placement and interconnection of equipment. Electrical observation shall be performed at intermediate significant stages of the construction progression and when installation is complete and ready to be inspected by the Building Official. Certificates of Electrical Observation shall be completed and sealed by the Engineer of Record for all life safety items as one of the requirements prior to release of a temporary certificate of occupancy. All certificates of Electrical Observation shall be completed and sealed prior to the project's final approval and the electrical portion of the certificate of occupancy is completed.

[A]Article 230.70(A)(1) is amended to read as follows:

- (1) **Readily Accessible Location.** The service disconnecting means shall be installed at a readily accessible location either outside of a building or structure, or inside nearest the point of entrance of the service-entrance conductors. The service disconnecting means shall be installed adjacent to, and accessible from, the same working area as the utility meter. All service disconnecting means located inside a building shall be enclosed within a room or space separated from the rest of the building by not less than a one-hour fire-resistive occupancy separation.

Exception: the ceiling of this service entrance room may be constructed as required for a one-hour wall assembly with protected opening.

[A] ARTICLE 334.10 is amended as follows:

[A]Article 334.10 Uses Permitted. Existing subsection 1 is deleted in its entirety and replaced with the following:

(1) One- and two-family dwellings, multi-family dwellings and other residential accessory structures.

[A]ARTICLE 334.12 is amended as follows:

[A]Article 334.12(A) Types NM, NMC and NMS. Subsections (2), (3), (4), (5), (6), (7), (8) and (9) are deleted in their entirety and “reserved” for future use.

ARTICLE 358 Electrical Metallic Tubing: Type EMT

[A]Article 358.10(B) items1 & 2 are deleted and replaced with the following:

[A]358.10(B) Corrosive Environments. Ferrous or nonferrous EMT, elbows, coupling, and fittings shall not be in concrete that is in direct contact with the earth, or in areas subject to severe corrosive influences and judged unsuitable for the condition by the Authority having Jurisdiction.

[A]Article 358.12 is amended by adding a new item number (3).

(3). Where in direct contact with the soil.

AVONDALE AMENDMENTS TO THE 2018 INTERNATIONAL MECHANICAL CODE

The International Mechanical Code, 2018 Edition, is amended in the following respects:

[A] Section 101.1 is amended as follows:

Section 101.1 Title. These regulations shall be known as the Mechanical Code of the City of Avondale, hereinafter referred to as "this code."

[A] Section 106.4.4 is deleted in its entirety and replaced with the following:

Section 106.4.4 Extensions. An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application had been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one extension of time for a period not to exceed 180 days. The extension shall be requested in writing and justifiable cause demonstrated.

[A] Section 106.5.2 is deleted in its entirety and replaced with the following:

[A] Section 106.5.2 Fee schedule. All fees shall be in accordance with City of Avondale adopted fee schedule which is adopted on an annual basis.

[A] Section 106.5.3 is deleted in its entirety and replaced with the following:

[A] Section 106.5.3 Fee refunds. The code official shall be permitted to authorize refunding of a fee paid hereunder which was erroneously paid or collected. The code official shall be permitted to authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in

accordance with this code. The code official shall be permitted to authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any examination time has been expended. The code official shall not be permitted to authorize refunding of any fee paid except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

[A] Section 108.4 is deleted and “reserved”.

[A] Section 108.5 is amended as follows:

[A] Section 108.5 Stop work order. The last sentence is amended to read as follows:

Any person who shall continue any work on the system after having been served by a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for a fine as established by the City of Avondale.

[A]Section 201.4 Add the following to the end of the section:

[A]Section 201.4 Terms not defined.

Merriam Webster’s Unabridged Dictionary of the English Language shall be considered as providing ordinarily accepted meanings.

AVONDALE AMENDMENTS TO THE 2018 INTERNATIONAL PLUMBING CODE

The International Plumbing Code, 2018 Edition, is amended in the following respects:

[A] Section 101.1 is amended as follows:

[A] Section 101.1 Title. These regulations shall be known as the Plumbing Code of the City of Avondale, hereinafter referred to as “this code.”

Add a new Section 101.5 to read as follows:

[A] Section 101.5 Appendices. Provisions in the appendices shall not apply unless specifically adopted.

The following appendices of the 2018 International Plumbing Code are included in the adoption of this code:

Appendix B – Rainfall Rates

Appendix E – Water Sizing Systems

[A]Section 106.5.4 is deleted in its entirety and replaced with the following:

[A] Section 106.5.4 Extensions. An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application had been pursued in good faith or a permit has been issued; except that the Building Official is authorized to grant one extension of time for a period not to

exceed 180 days. The extension shall be requested in writing and justifiable cause demonstrated.

[A] Section 106.6.3 is deleted in its entirety and replaced with the following:

[A] 106.6.3 Fee refunds. The code official shall be permitted to authorize refunding of a fee paid hereunder which was erroneously paid or collected. The code official shall be permitted to authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code. The code official shall be permitted to authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any examination time has been expended. The code official shall not be permitted to authorize refunding of any fee paid except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

[A] Section 108.4 is deleted and “reserved”.

[A] Section 108.5 is amended as follows:

[A] Section 108.5 Stop work orders. The last sentence is amended to read as follows:

Any person who shall continue any work on the system after having been served by a stop work order except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for a fine as established by the City of Avondale.

[A]Section 201.4 Add the following to the end of the section:

[A]Section 201.4 Terms not defined.

Merriam Webster’s Unabridged dictionary of the English Language shall be considered as providing ordinarily accepted meanings.

[A]Section 305.4.1 is amended as follows:

[A]Section 305.4.1 Sewer Depth insert “12in(305mm)” where applicable in this section.

[A]Section 410.4 is amended as follows:

[A]Section 410.4 Substitution. Delete the last sentence and replace with the following:

“In other occupancies, where drinking fountains are required, bottle water dispensers or water coolers shall be permitted to be substituted.”

[A]Section 504.6 Requirements for discharge piping is amended as follows:

Revise #2 to read as follows:

2. Discharge through an air gap located in the same room as the water heater except where the discharge is to the outdoors, not subject to freezing and the piping terminates not less than 6 inches (153mm) and not more than 12 inches (305mm) above grade.

[A]Section 608.17.1.1 Carbonated beverage dispensers is deleted and replaced as follows:

Section 608.17.1.1 Carbonated beverage dispensers. The water supply connection to each carbonated beverage dispenser shall be protected by a Reduced Pressure Principle Backflow Assembly. The portion of the backflow preventer device downstream from the second check valve of the device and the piping downstream therefrom shall not be affected by carbon dioxide gas.

[A]Section 803 Special Wastes is deleted in its entirety and replaced with the following:

[A]Section 803 Special Wastes.

[A] Section 803.1 Neutralization. Special wastes discharge shall be in conformance with Avondale Water Resources Department Pretreatment Program.

[A]Section 903.1 Roof Extension is amended to add the following to the end of the section:

Vents shall terminate a minimum of 6in(153mm) above the roof and not less than 12in(305mm) from any vertical surface.

[A]Chapter 13 Non-potable Water Systems is deleted and reserved. See Maricopa County Health Department requirements.

[A]Chapter 14 Subsurface Irrigation Systems is deleted and reserved.

AVONDALE AMENDMENTS TO THE 2018 INTERNATIONAL FUEL GAS CODE

The International Fuel Gas Code, 2018 Edition, is amended in the following respects:

[A] Section 101.1 is amended as follows:

[A] Section 101.1 Title. These regulations shall be known as the Fuel Gas Code of the City of Avondale, hereinafter referred to as "this code."

[A] Section 106.5.4 is deleted in its entirety and replaced with the following:

[A] Section 106.5.4 Extensions. An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application had been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one extension of time for a period not to exceed 180 days. The extension shall be requested in writing and justifiable cause demonstrated.

[A] Section 106.6.2 is deleted in its entirety and replaced with the following:

[A] Section 106.6.2 Fee schedule. All fees shall be in accordance with Chapter One of the International Building Code as adopted by the City of Avondale and amended from time to time.

[A] Section 106.6.3 is deleted in its entirety and replaced with the following:

[A] Section 106.6.3 Fee refunds. The code official shall be permitted to authorize refunding of a fee paid hereunder which was erroneously paid or collected. The code official shall be permitted to authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code. The code official shall be permitted to authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any examination time has been expended. The code official shall not be permitted to authorize refunding of any fee paid except upon written application filed by the original permitted not later than 180 days after the date of fee payment.

[A] Section 108.4 is deleted and reserved.

[A] Section 108.5 is amended as follows:

[A] Section 108.5 Stop work orders. The last sentence is amended to read as follows:

Any person who shall continue any work on the system after having been served by a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for a fine as established by the City of Avondale.

[A]Section 201.4 Add the following to the end of the section:

[A]Section 201.4 Terms not defined.

Merriam Webster's Unabridged Dictionary of the English Language shall be considered as providing ordinarily accepted meanings.

[A]Section 404.12 Minimum burial depth. Is revised to read as follows:

[A]Section 404.12 Minimum burial depth. Underground piping systems shall be installed a minimum depth of 12 inches (305mm) below grade for metal piping and 18 inches (457mm) for plastic piping.

[A]Section 404.12.1 Is deleted and reserved.

AVONDALE AMENDMENTS TO THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE

The International Energy Conservation Code, 2018 Edition, is amended in the following respects:

[A]Section C101.1 is amended as follows:

[A]Section C101.1 Title. These regulations shall be known as the Energy Conservation Code of the City of Avondale, hereinafter referred to as "this code."

[A]Section C101.2 is amended as follows:

[A]Section C101.2 Scope. Add the following to the end:

Group R-2 when defined as a Residential Building by Section R202, shall have the option of complying under the Commercial Provisions of the code, regardless of height. Once defined as such on the submittal documents, all components of the commercial provisions shall be followed.

[A]Section C 201.4 Add the following to the end of the section:

[A]Section C201.4 Terms not defined.

Merriam Webster's Unabridged Dictionary of the English Language shall be considered as providing ordinarily accepted meanings.

[A]Section C401.2 is deleted and replaced with the following:

[A]Section C401.2 Application. Commercial Buildings Shall comply with one of the following:

1. The requirements of ANSI/ASHRAE/IESNA 90.1.
2. The requirements of Section C402 through C405. In addition, commercial buildings shall comply with Section C406 and tenant improvements shall comply with Section C406.1.1
3. The requirements of Sections C402.5, C403.2, C403.3 through C403.3.2, C403.4 through C403.4.2.3, 403.5.5, C403.7, C403.8.1 through C403.8.4, C403.10.1 through C403.10.3, C403.11 C403.12, C404, C405, and C407. The building energy cost shall be equal to or less than 85 percent of the standard reference design building.
4. Compliance with the provisions of Section C408 are optional.

[A]Section R101.1 is amended as follows:

[A]Section R101.1 Title. These regulations shall be known as the Residential Energy Conservation Code of the City of Avondale, hereinafter referred to as "this code."

[A]Section R101.2 is amended as follows:

[A]Section R101.2 Scope. Add the following to the end:

Group R-2 when defined as a Residential Building by Section R202, shall have the option of complying under the Commercial Provisions of the code, regardless of height. Once defined as such on the submittal documents, all components of the commercial provisions shall be followed.

[A]Section R102.1.2 is added as follows:

[A]Section R102.1.2 RESNET Testing and Protocol. The Residential Energy Services Network(RESNET) Mortgage Industry National Home Energy Rating System Standards Protocol for third party testing and inspections shall be deemed to meet the requirements of sections R402.4.1.1, R402.4.1.2 and R403.2.2 and shall meet the following conditions.

1. Third Party Testing and Inspections shall be completed by a RESNET certified Rater or Field Rating Inspector and shall be subject to RESNET Quality Assurance Field Review procedures.

2. Sampling in accordance with Chapter 6 of the RESNET Standards shall be performed by Raters or Field Inspectors working under a RESNET Accredited Sampling Provider.
3. Third Party Testing is required for the following items:
 - a. R402.4.1.1 – Building Envelope- Thermal Air Barrier Checklist
 - b. R402.4.1.2 – Testing – Air Leakage Rate
 - c. R403.2.2 – Sealing – Duct Tightness
4. The other requirements identified as “mandatory” in Chapter 4 shall be met.
5. Alternate testing and inspection programs and protocols shall be allowed when approved by the Code Official.

[A]Section R403.3.1 is amended as follows:

[A]Section R403.3.1 Insulation (Prescriptive) Delete existing exception language in its entirety and replace with:

Exceptions:

1. Ducts or portions thereof located completely inside the building thermal envelope.
2. Supply ducts may be insulated to a minimum-6 when one or more of the following conditions are met:
 - 2.1. Minimum SEER rating of space heating/cooling system is increased to 15
 - 2.2. Maximum U-factor is decreased to 0.35 and maximum SHGC is decreased to 0.22 for all fenestration products.
 - 2.3. Wall cavity insulation minimum R-value is increased to R-19.
 - 2.4. Residential Buildings that meet the requirements of sections R102.1.1 or R405.
 - 2.5. Residential buildings with attic radiant barriers in accordance with ASTM C1313 and installed in accordance with ASTM C1743.

[A]Table R406.4 is amended as follows:

Table R406.4 Maximum Energy Rating Index. The energy rating index for Climate Zone 2 is deleted and replaced with 64.

Climate Zone	Energy Rating Index
2	64

(Remainder of the table unchanged.)



Home Builders Association of Central Arizona

December 17, 2018

SENT VIA EMAIL

Brett Harris, CBO
Chief Building Official
City of Avondale
11465 W Civic Center Dr
Avondale AZ 85323

Re: 2018 Building Code Update

Dear Mr. Harris:

Thank you very much for the opportunity to comment on the 2018 building code and the City's proposed amendments. The Home Builders Association of Central Arizona ("HBACA") is very appreciative of the City's effort to include the HBACA in the code adoption process.

Whenever the HBACA reviews a potential code update, our primary concern is always the potential for unnecessary increases in the cost of construction. Fortunately, over the course of the past several code cycles some of the changes have reduced construction costs. In those areas where there may potentially be increased costs, we believe that the City's proposed amendments will mitigate those concerns. Moreover, the amendments are consistent with other jurisdictions across the Valley. Therefore, the HBACA supports the amendments as proposed in the adoption package.

On behalf of the home builders in Avondale, thank you again for the opportunity to meet and discuss the code adoption package. Please feel free to contact me directly with any questions or concerns.

Very truly yours,



Jackson Moll
Vice President of Municipal Affairs
Home Builders Association of Central Arizona



November 27, 2018

Mayor Weise
Avondale City Hall
11465 Civic Center Dr
Avondale, AZ 85323

Re: 2018 International Building Code Adoption

Dear Mayor Weise and members of the City Council,

On behalf of the Arizona Multihousing Association ("AMA") and the over 2,000 members we represent, we would like to express our support for the proposed 2018 Building Code Adoption with the inclusion of our industry's proposed amendments.

Throughout the Code Amendment process Avondale's staff has been highly responsive and easy to work with. We greatly appreciate the city's effort to include the AMA on such an important issue and we look forward to working with them again in the future.

Sincerely,

Jack Horton
On Behalf of:
Arizona Multihousing Association



January 16, 2019

Brett Harris, CBO
Chief Building Official
City of Avondale / Development Services
11465 West Civic Center Drive, Avondale, AZ 85323

RE: Adoption of most current life safety codes

Brett:

SRP supports your adoption of the 2018 International Code Family, and the 2017 National Electric Code. The 2018 International Energy Conservation Code, along with the International Residential Code, provides guidance to builders and home owners on methods that result in safe, resilient and energy efficient dwellings. The 2018 International Fire Code provides up to date information on the best methods and materials, as well as needed guidance on the use of energy storage systems and batteries. These codes, along with the 2017 National Electric Code will help keep your residents safe.

Upon review of our records, we estimate the 2012 IECC has saved Avondale residents in newly constructed buildings (in SRP territory) more than \$1 million in energy costs since it was adopted. We imagine much of that savings has been injected into other areas of your local economy, as residents have more to spend at the local movie theatres and restaurants, and businesses have more to hire additional staff or expand. The savings may have meant the difference in a home buyer finally being able to afford their dream home. We believe the 2018 IECC will deliver even greater savings and economic impacts over time.

Importantly, the Home Builders Association of Central Arizona has recognized the many benefits of the 2018 codes - greater flexibility, reduced construction costs, and simplified compliance paths. In addition, they recognized the work we have done with the West Valley Fire and Building Code Officials to coordinate amendments to the new codes, and better align code enforcement practices across the Valley. A consistent and predictable experience for the Home Builders is expected to lead to better quality homes for Avondale residents and pave the way for economic development.

Thank you for the opportunity to participate in your amendment process. SRP will continue to support your staff as you move forward with the 2018 Codes. Please don't hesitate to contact me for additional support or training for your staff on the 2018 International Energy Conservation Code and the other codes that support the construction of resilient buildings.

Sincerely,

Sharon A. Bonesteel, AiA, CBO
Building Codes Program Manager
SRP | Product Development | PAB32W
P.O. Box 52025, Phoenix, AZ 85072-2025
M: (602) 814-7357



CITY COUNCIL AGENDA

SUBJECT:

Budget Process Overview

MEETING DATE:

2/4/2019

TO: Mayor and Council

FROM: Lindsey Duncan, Finance and Budget Director, 623-333-2011

THROUGH: Charles A. Montoya, City Manager (623) 333-1016

PURPOSE:

This presentation will give a general overview of the City's budget and review the calendar for the upcoming process.

BACKGROUND:

This is the first in a series of presentations regarding the development of the fiscal year (FY) 2020 budget. This presentation will give a general overview of the City's budget and review the calendar for the upcoming process. Emphasis will be placed on the tools and policies City Council has available when developing the FY2020 budget.

DISCUSSION:

The information presented will lead to future discussions around the FY2020 budget. These discussions will assist the Mayor and Council in making informed decisions about the City's operations and capital construction.

BUDGET IMPACT:

The information presented is intended to encourage discussion which will lead the development of the FY2020 budget.

RECOMMENDATION:

This item is for information and discussion only.



CITY COUNCIL AGENDA

SUBJECT:

City Council Education Support Funding

MEETING DATE:

2/4/2019

TO: Mayor and Council

FROM: Christopher Lopez, Neighborhood and Family Services Director, 623-333-2711

THROUGH: Charles Montoya, City Manager

PURPOSE:

City Council will consider a recommendation from staff regarding the utilization of funding allocated during the FY19 budget process for the purpose of supporting the academic success of students in Avondale. Input and feedback is requested from City Council.

BACKGROUND:

Funding in the amount of \$50,000 was allocated during the FY19 budget process for the purpose of supporting the academic success of Avondale's students in grades K-12. In an effort to maximize the impact and direct benefit to students, staff have developed a strategic set of opportunities that complement a variety of proven educational enrichment programs.

DISCUSSION:

In an effort to ensure that students see a direct benefit from the resources allocated, staff are recommending the creation of the Aspire and Achieve Projects. This initiative will direct \$50,000 of funding into five focus areas that include: STEM (science, technology, engineering and math), Workforce Readiness, Art & Music, Civic Engagement & College Success.

The following is a brief summary of the recommend projects.

School Based STEAM Projects - Provide funding to support the work that our AmeriCorps VISTA members are doing in our various elementary school districts. Through the AmeriCorps VISTA program, the Neighborhood and Family Services Department is working closely with school districts and community partners by assisting with the delivery of STEM (science, technology, engineering Art and mathematics) activities geared toward improving academic performance in the areas of literacy and mathematics.

STEAM Fest Enhancements - The Neighborhood and Family Services Department, Library Division will partner with local K-8 School Districts and other community partners to enhance STEAM Fest. Funding will be used for student awards, scholarships and event supplies.

Youth Workforce and Education - Expand and enhance the City of Avondale Summer Youth Employment Program by offering additional summer employment opportunities to youth whose household income is above the current program requirements.

Student Music & Visual Art Exhibition - The Neighborhood and Family Services Library Division and Revitalization Division will conduct a Student Music & Art Exhibition at the Sam Garcia Library to showcase student art and provide an opportunity for schools to generate resources to support their respective programs. Civic Engagement Scholarships - Promote civic engagement and post-secondary education by offering scholarships to youth that serve on the Avondale Youth Advisory Commission for 2 or more years and have demonstrated and outstanding commitment to service and civic engagement.

BUDGET IMPACT:

Funding for this project is in the non-departmental fund, 101-5300-00-6991

RECOMMENDATION:

This report is for information and discussion only.



CITY COUNCIL AGENDA

CITY COUNCIL CHAMBERS . 11465 WEST CIVIC CENTER DRIVE . AVONDALE, AZ 85323

REGULAR MEETING
February 4, 2019
7:00 PM

CALL TO ORDER BY MAYOR
PLEDGE OF ALLEGIANCE
MOMENT OF REFLECTION

1 ROLL CALL AND STATEMENT OF PARTICIPATION BY THE CITY CLERK

2 RECOGNITION ITEMS (MAYOR PRESENTATIONS)

a. PROCLAMATION - PROFESSIONAL ENGINEERS WEEK

The Mayor and Council to issue a Proclamation recognizing the week of February 17-23, 2019 as Professional Engineers Week.

3 UNSCHEDULED PUBLIC APPEARANCES

(Limit three minutes per person. Please state your name.)

4 CONSENT AGENDA

Items on the consent agenda are of a routine nature or have been previously studied by the City Council at a work session. They are intended to be acted upon in one motion. Council members may pull items from consent if they would like them considered separately.

a. APPROVAL OF MINUTES

City Council will consider a request to approve the December 10, 2018 and December 17, 2018 City Council Meeting minutes. The Council will take the appropriate action.

b. PROFESSIONAL SERVICES AGREEMENT WITH STANLEY CONSULTANTS -4TH STREET LIFT STATION DESIGN SERVICES

City Council will consider a request to approve a Professional Service Agreement with Stanley Consultants, Inc. to provide design and post-design services for the 4th Street Lift Station upgrades in the amount of \$123,075 and authorize the Mayor, or City Manager and City Clerk to execute the contract documents. The Council will take appropriate action.

c. PROFESSIONAL SERVICES AGREEMENT WITH TY LIN INTERNATIONAL - DESIGN SERVICES FOR EL MIRAGE AND MC85 RIGHT TURN LANE PROJECT

City Council will consider a request to approve a Professional Services Agreement with T.Y. Lin International (T.Y. Lin) to provide design services for the El Mirage Road and Buckeye Road (MC 85) Northbound Right Turn Lane Project in the amount of

\$77,680.96 and authorize the Mayor, or City Manager and City Clerk to execute the necessary documents. The Council will take appropriate action.

d. **MINOR LAND DIVISION TOLLESON UNION HIGH SCHOOL DISTRICT APPLICATION PL-18-0176**

City Council will consider a request by Mr. Casey Whiteman, with Hilgart Wilson, LLC, for approval of a Minor Land Division (MLD) concerning 69.18 acres of land located at the northwest corner of Avondale Boulevard and Encanto Boulevard. The proposed MLD combines five separate parcels of land into a single 69.18-acre parcel, abandons existing access easements, dedicates public right-of-way, public utilities easements, and access easements to the City of Avondale. The Council will take appropriate action.

e. **RESOLUTION 3519-219 - INTERGOVERNMENTAL AGREEMENT FOR SOUTHWEST FAMILY ADVOCACY CENTER WITH BUCKEYE, GOODYEAR AND MARICOPA COUNTY**

City Council will consider a request to adopt Resolution 3519-219 approving an updated intergovernmental agreement (IGA) replacing the IGA and previous amendments that expired 12/31/18 and authorize the Mayor, or City Manager and City Clerk to execute the necessary documents. The agreement, amongst the partners, explains how each agency shares equally in the operational, maintenance and administrative costs, and outlines each partner's responsibilities related to the policies and procedures of the Southwest Family Advocacy Center. The Council will take the appropriate action.

f. **RESOLUTION 3520-219 - THIRD AMENDMENT TO THE 2016-2017 HOME INTERGOVERNMENTAL AGREEMENT**

City Council will consider a request to adopt Resolution 3520-219 authorizing the Third Amendment to the 2016-2017 HOME Intergovernmental Agreement with Maricopa County to extend the term of the agreement and authorize the Mayor or City Manager and City Clerk to execute the necessary documents. The Council will take the appropriate action.

g. **RESOLUTION 3518-219 - TOHONO O'ODHAM NATION GRANT ACCEPTANCE**

City Council will consider a request to adopt Resolution 3518-219 authorizing the acceptance of grant funding from the Tohono O'odham Nation (TON) in the amount of \$25,000 for a Public Works Traveling Tap Trailer and authorize the Mayor, or City Manager and City Clerk to execute the necessary documents. The Council will take the appropriate action.

5 PUBLIC HEARING AND ORDINANCE 1684-219 - REVISED HARVARD-TOBIN (VERDE TRAILS II) ANNEXATION

City Council will hold a public hearing and consider a request by Ms. Carolyn Oberholtzer, with Bergin, Frakes, Smalley, & Oberholtzer, PLLC on behalf of property owner Tobin Living Trust to adopt Ordinance 1684-219 annexing approximately 42 acres of land located east of the southeast corner of Avondale Boulevard and Broadway Road. The Council will take appropriate action.

6 PUBLIC HEARING AND ORDINANCE 1683-219 - REZONING TO PAD (PLANNED AREA DEVELOPMENT) - VERDE TRAILS II (APPLICATION PL-18-0197)

City Council will hold a public hearing and consider a request by Ms. Carolyn Oberholtzer, with Bergin, Frakes, Smalley & Oberholtzer, PLLC on behalf of property owner Tobin Living Trust, to adopt Ordinance 1683-219 rezoning approximately 39.4 gross acres located approximately one-quarter (1/4) mile east of the southeast corner of Avondale Boulevard

and Broadway Road from RR-43 (Rural Residential) to PAD (Planned Area Development) for medium density single-family residential use. The Council will take appropriate action.

7 DISCUSSION ITEMS

Council will discuss items listed below and possibly give direction to city staff to research and prepare item for future meeting.

a. HISTORIC AVONDALE INFRASTRUCTURE PROJECTS

Staff will provide an update to Council on Historic Avondale infrastructure projects prioritization, timelines, and budget.

b. COMPREHENSIVE ANNUAL FINANCIAL REPORT AND SINGLE AUDIT - FISCAL YEAR 2018

Staff will present the results of the City's annual audit for the fiscal year ended June 30, 2018. This item is for information and discussion.

8 EXECUTIVE SESSION

The Council may hold an executive session pursuant to: (i) Ariz. Rev. Stat. § 38-431.03(A)(7) for discussion or consultation with the City Manager in order to consider its position and instruct the City Manager regarding negotiations for the sale/exchange of real property; and (ii) Ariz. Rev. Stat. § 38-431.03(A)(3) for discussion or consultation for legal advice with the City Attorney regarding conditional use permits.

9 ADJOURNMENT

Council Members of the City of Avondale will attend either in person or by telephone conference call.

Los miembros del Concejo de la Ciudad de Avondale participaran ya sea en persona o por medio de llamada telefonica.

Individuals with special accessibility needs, including sight or hearing impaired, large print, or interpreter, should contact the City Clerk at 623-333-1200 or TDD 623-333-0010 at least two business days prior to the Council Meeting.

Personas con necesidades especiales de accesibilidad, incluyendo personas con impedimentos de vista u oído, o con necesidad de impresión grande o intérprete, deben comunicarse con la Secretaria de la Ciudad at 623-333-1200 o TDD 623-333-0010 cuando menos dos días hábiles antes de la junta del Concejo.

Notice is hereby given that pursuant to A.R.S. 1-602.A.9, subject to certain specified statutory exceptions, parents have a right to consent before the State or any of its political subdivisions make a video or audio recording of a minor child. Meetings of the City Council may be audio and/or video recorded and, as a result, proceedings in which children are present may be subject to such recording. Parents, in order to exercise their rights may either file written consent with the City Clerk to such recording, or take personal action to ensure that their child or children are not present when a recording may be made. If a child is present at the time a recording is made, the City will assume that the rights afforded parents pursuant to A.R.S. 1-602.A.9 have been waived.

De acuerdo con la ley A.R.S. 1-602.A.9, y sujeto a ciertas excepciones legales, se da aviso que los padres tienen derecho a dar su consentimiento antes de que el Estado o cualquier otra entidad política haga grabaciones de video o audio de un menor de edad. Las juntas del Concejo de la Ciudad pueden ser grabadas y por consecuencia, existe la posibilidad de que si hay menores de edad presentes estos aparezcan en estos videos o grabaciones de audio. Los padres puedan ejercitar su derecho si presentan su consentimiento por escrito a la Secretaria de la Ciudad, o pueden asegurarse que los niños no estén presentes durante la grabación de la junta. Si hay algún menor de edad presente durante la grabación, la Ciudad dará por entendido que los padres han renunciado sus derechos de acuerdo a la ley contenida A.R.S. 1-602.A.9.



CITY COUNCIL AGENDA

SUBJECT:

Approval of Minutes

MEETING DATE:

2/4/2019

TO: Mayor and Council

FROM: Marcella Carrillo, City Clerk, (623) 333-1214

THROUGH: Charles A. Montoya, City Manager, (623) 333-1016

PURPOSE:

City Council will consider a request to approve the December 10, 2018 and December 17, 2018 City Council Meeting minutes. The Council will take the appropriate action.

ATTACHMENTS:**Description**

[December 10, 2018 Council Retreat](#)

[December 17, 2018 Council Meeting](#)

MINUTES OF THE AVONDALE CITY COUNCIL RETREAT
CITY OF AVONDALE, ARIZONA
COURTYARD MARRIOTT
December 10, 2018

A **Council Retreat** of the City Council of the City of Avondale, Arizona was convened at 1650 North 95th Lane, Phoenix in open and public session at 5:03 p.m.

Members Present: Mayor Kenn Weise; Vice Mayor Bryan Kilgore; Councilmembers Tina Conde, Pat Dennis, Veronica Malone, Mike Pineda, and Lorenzo Sierra.

Members Absent: None.

Other Municipal Officials Present: Charles Montoya, City Manager; Gina Montes, Assistant City Manager; Marcella Carrillo, City Clerk; Andrew McGuire, City Attorney; Jeffrey Scheetz, Chief Information Officer; Pier Simeri, Community Relations and Public Affairs Director; Lindsey Duncan, Finance and Budget Director; Paul Adams, Fire Chief; Jessica Blazina, Intergovernmental Affairs Administrator; Cherlene Penilla, Human Resources Director; Christopher Lopez, Neighborhood and Family Services Director; Kirk Haines, Parks and Recreation Director; Craig Jennings, Municipal Court Judge; Dale Nannenga, Chief of Police; Tracy Stevens, Development and Engineering Services Director; Cindy Blackmore, Public Works Director; Daniel Davis, Economic Development Director; Abril Ruiz-Ortega, Court Administrator, Linda Mendenhall, Deputy City Clerk; Mark Neerings, Assistant Chief Information Officer; Memo Espinoza, Assistant Police Chief; and Rachel Brito, Executive Assistant.

Audience: No members of the public were present.

1 ROLL CALL BY THE CITY CLERK

2 COUNCIL 2019/2020 BUDGET PROCESS DISCUSSION

The City Council discussed the 2019/2020 budget process, preliminary department budget needs, and City Council goals for the budget process.

Mayor Weise welcomed the group and spoke about how the goal is to have staff more engaged with Council in the budget process.

Charles Montoya, City Manager, reported that staff attended an all-day retreat to review the material that is being presented to council and then turned the meeting over to Gina Montes, Assistant City Manager.

Ms. Montes welcomed everyone and introduced Pier Simeri, Community Relations Director, who kicked off the goal setting retreat. Ms. Simeri spoke about the strategic plan and shared that the strategic plan puts the vision and budget into one document.

Lindsey Duncan, Finance and Budget Director, reported on the economic factors for the City. A discussion ensued regarding:

- Economic Indicators
 - o Comparison of National numbers versus Arizona from July 2017 to July 2018
- State Revenues
 - o State Shared Sales Tax
 - o State Income Tax

- Individual income
 - Corporate Income
 - o Highway User Revenue Fund
- Local Sales Tax (retail, auto and restaurants)
- The Budget Process – building the budget together
 - o Budget Calendar
 - o Community Facility District budget timeline

Dale Nannenga, Chief of Police, presented the goals for the Police Department, indicating a focus on increasing the number of officers on the streets and community outreach.

A discussion ensued regarding:

- Maintaining service levels
 - o Continue to provide school resource officers (SRO)
 - o Requesting an additional SRO for the new high school
 - Funding from the Tolleson Union High School District
 - o Increase costs for contractual obligations
- New programs and enhanced levels of service
 - o Reduce property crimes and increase visibility
 - Additional five Patrol Officers
 - Additional property crimes detective
 - o Ensure the safe movement of traffic in the city
 - Additional Traffic Officer
 - o Provide supervisory oversight to SRO's while improving relationship with all schools
 - SRO Sergeant
 - o Full implementation of body worn cameras – additional 30 cameras
 - o Continue to provide accurate crime statistics to the community
 - Implement NIBRS in Spillman
 - o Monitor cost-centers to ensure funds are properly accounted for – Eden cash system for records
 - o Use technology to assist officers in their duties
 - Replace the video training system for use of force scenarios
 - o Complete a security assessment of all city buildings
 - o Neighborhood Resource Officer and homeless initiative

Council Member Lorenzo Sierra excused himself at 5:33 p.m. for the remainder of the meeting .

Paul Adams, Fire Chief, presented the goals for the Fire Department, indicating a focus on increasing service levels by installing a LUCAS cardiac chest compression system on each fire truck and a six-month pilot project of low-acuity vehicles to respond to lower priority calls.

A discussion ensued regarding:

- Maintaining service levels
 - o Administrative support positions
 - Support Services Technician
 - Management Analyst
 - Emergency Medical Services Chief
 - o Protective clothing replacement
 - o Enhanced ballistic protection for crews

- o Line item increases
 - Annual physicals increase
 - Apparatus maintenance budget increase
 - Phoenix dispatch fee increase
 - Database software maintenance
- o Replace modular classroom/support facility at the Avondale/Goodyear Training Center
- o Three Fire Fighter positions to fill upcoming retirements
- o Crisis intervention program continuation
- o Part-time communications staff during race events (reimbursable)
- o Wildland deployment appropriation (reimbursable)
- o Wildland training and equipment (reimbursable)
- New programs and enhanced levels of service
 - o LUCAS cardiac chest compression system for each engine
 - o Transition to more secure commercial emergency access key system
 - o Low acuity response vehicle 6-month pilot project
 - o Improve traffic camera functionality
 - o Appropriate level of staffing on vehicles

Council Member Dennis requested statistics and costs with respect to other agencies who have completed a similar low acuity response vehicle pilot project.

Cindy Blackmore, Public Works Director, presented the goals for the Public Works Department, indicating a focus on drought contingency and educational programs for residents.

A discussion ensued regarding:

- Maintaining service levels
 - o Fleet services
 - Additional Mechanic
 - Increased costs in parts and supplies
 - Increased costs in gasoline and diesel
 - o Sanitation/Street/Fleet Maintenance
 - Superintendent
 - Additional inspector
 - Tipping fee increases
 - Refuse (trash) – City of Glendale
 - Recycle – City of Phoenix
 - Cost differences between the agreements with Glendale and Phoenix
 - Containers
 - o Water Resources
 - Increase in cost of water (shortage declaration)
 - New/expanded treatment sites
 - Additional Water operator
 - Water and sewer increased costs in services and supplies
- New programs and enhanced levels of service
 - o Exploring community outreach options
 - Water academy
 - Digital newsletter
 - o Optimization operations to meet growth
 - o Historic Avondale street maintenance
 - Agenda item on this will be forthcoming

- o Expansion of MOSC in the future
 - Outsourcing services to prevent need for expansion
- o Wastewater treatment plant improvements

Council took a recess at 6:27 p.m. and reconvened at 6:43 p.m.

Judge Craig Jennings reported on the goals for the Avondale City Court, indicating an increase in court fees and the challenges associated with complying with legislative mandates.

A discussion ensued regarding:

- Maintaining service levels
 - o Continuation of the Compliance Assistance Program
 - o Implementation of legislative mandates
- New programs and enhanced levels of service
 - o Monitor fair justice initiatives
 - o Electronic scanning of civil traffic citations
 - o Enhance information on website
- Allocation of fees

Tracy Stevens, Development and Engineering Services Director, presented the goals for the Development and Engineering Services Department, indicating a focus on increasing the green business program and implementation of a dashboard to help track projects.

A discussion ensued regarding:

- Maintaining service levels
 - o Additional administrative support position for contract administration
 - o Contractual services for plan review and inspections
 - Contract Engineering Inspector
 - o Increased costs in equipment and technology
- New programs and enhanced levels of service
 - o Green business program
 - o Capital project management
 - CIP dashboard project management software
 - o Capital equipment
 - Paint sprayer and utility location finder

Council Member Pineda requested staff inquire on using the Perryville Prison and the Rio Salado construction resources for projects from Development and Engineering Services and Neighborhood and Family Services.

Kirk Haines, Parks and Recreation Director, presented the goals for the Parks and Recreation Department, indicating a focus on the development of a preventative maintenance plan for city buildings, trail development and park improvements and maintenance.

A discussion ensued regarding:

- Maintaining service levels
 - o Sustain existing building infrastructure
 - o Additional building maintenance worker

- o Converting temporary part-time employees into permanent part-time employees
 - o Increased costs for contractual services
 - o Special events
- New programs and enhanced levels of service
 - o Complete improvements to Festival Fields Park
 - Operating costs
 - staffing
 - o Continue Friendship Park improvements
 - o Neighborhood park improvements with emphasis at Donnie Hale Park
 - o Planning the Community Center conversion
 - o Signage to include park entrances, wayfinding, and rules
 - o Trails system development
 - o Goodyear Farms Cemetery improvements

Council Member Dennis suggested staff initiate an adopt-a-park program on one park within the City.

Mayor Weise suggested staff reach out to Maricopa County Board Supervisor, Clint Hickman, to discuss park maintenance partnerships.

Christopher Lopez, Neighborhood and Family Services Director, presented the goals for the Neighborhood and Family Services Department, indicating a focus on updating the library collection and homeless initiatives.

A discussion ensued regarding:

- Maintaining service levels
 - o Review agreements and evaluate impact of resource center partners
 - o Evaluate the Avondale Proud Proactive Inspection Program and implement practices to increase effectiveness
 - o Conduct periodic facility inspections to address maintenance and safety concerns
 - o Continue AmeriCorps VISTA
- New programs and enhanced levels of service
 - o Neighborhood and Family Services Assistant Director
 - o Neighborhood Preservation Tech
 - o Homeless outreach services
 - o Library collection expansion
 - o Code violation assistance fund

Discussion ensued regarding code violations and the Clean and Lean Program.

Daniel Davis, Economic Development Director, presented the goals for the Economic Development Department, indicating a focus on a more aggressive marketing campaign through use of website and social media outlets.

A discussion ensued regarding:

- Maintaining Service Levels
 - o City-owned property expenses
 - o Council and staff event and table sponsorships
 - o EMSI economic modeling platform
 - o Fuerza Local Business Accelerator program

- o Economic opportunities fund
- New programs and enhanced levels of service
 - o Enhance marketing and business development efforts - print and digital outreach
 - City Center
 - Health-tech corridor
 - Manufacturing
 - Advanced business
 - Hospitality and tourism
 - Opportunity zones

Mr. Davis provided additional more information on Gangplank. Mayor Weise requested City Council receive a more detailed update regarding Gangplank in the near future.

Council Member Dennis expressed interest in reviewing the revitalization plan and strategies developed within the revitalization plan.

Ms. Montes reported on the goals for the six internal services departments. She presented the following for the City Clerk's Department.

- Maintaining services levels
 - o Increase costs for records request portal (NextRequest)
 - o Increase costs for social media archiving software (Smash)
 - o Increase costs for a new agenda management software (CivicClerk)
 - o Increase costs for the Board, Commission and Committee Recognition Event
- New Programs and Enhanced Levels of Service
 - o Election proposition for future amenities
 - Election on a countywide ballot (2020 Fall Election)
 - Election not on a countywide ballot (2019 Election or 2020 Spring Election)

A discussion ensued regarding a potential bond election. Mayor Weise requested more discussions in the future regarding a potential election.

Council Member Dennis expressed interest in revising the charter.

Ms. Montes presented the following for the Community Relations Department, indicating a focus on expanding marketing efforts through use of specialty campaigns, social media outlets and video production.

- Maintaining service levels
 - o Increase for printing and mailing costs
 - o Ongoing funding for graphic designer position
 - o Technology resources/tools – increase in subscription fees (digital engagement)
 - o Training (social media and Adobe)
- New programs and enhanced levels of service
 - o Funding to expand marketing efforts – Census, specialty campaigns, social media boosts, geo-fencing, and photography
 - o Technology to manage, measure and enhance marketing campaigns (digital asset management, survey tools)
 - o Full-time employee to establish professional video production capability

Ms. Montes presented the following for the Finance and Budget Department, indicating a focus on improving systems, streamlining processes and reducing paper.

- Maintaining service levels
 - o Upgrade/replace financial management software
 - o Service agreement increases for payroll software, banking fees, printing and postage
- New programs and enhanced levels of service
 - o Implement/enhance software to automate paper processes
 - o Participation in Government Finance Officers Association Student Internship Program

Ms. Montes presented the following for the Information Technology Department, indicating a focus on an increase in services on the website, fillable forms, core analytics and cyber security.

- Maintaining service levels
 - o Expanding DocuSign to external services
 - o Continue cyber awareness training
 - o Core network application analytics
 - o Perform network penetration test
 - o Software for enhanced data transparency
- New programs and enhanced levels of service
 - o Implement single sign-on with multi-factor authentication
 - o Implement cloud disaster recovery for critical servers
 - o Implement cloud backup for Microsoft OneDrive and SharePoint
 - o Expand fiber infrastructure between facilities
 - o Study for public Wi-Fi in public areas

Mayor Weise expressed his interest in providing public Wi-Fi. Council Member Malone inquired on Net Neutrality with respect to public Wi-F.

Ms. Montes presented the following for the Human Resources Department, indicating a focus on streamlining processes and pre-employment assessment tools.

- o Maintaining service levels
 - Increase in contractual services (ADP and NeoGov)
- o New programs and enhanced levels of service
 - Streamline processes and go “paperless”
 - Provide enhanced pre-employment assessment tools
 - Risk management information system

Ms. Montes presented the following for the Administration Department, indicating a focus on the implementation of a citizen complaints/concerns tracking system to improve customer service.

- New programs and enhanced levels of service
 - o Citizen relationship management system
 - o Increased MAG Census 2020 Assessment –Media costs related to Census 2020
 - o Increased RPTA costs for Zoom Sunday and ADA Dial-a-Ride Service

Ms. Duncan concluded the goals portion of the presentation, reviewing the final costs associated with the information presented for maintaining service and new programs/enhanced levels of service.

- Maintaining Service Levels – Increased costs due to inflation, contractual obligations, increased demand (growth)
 - o Ongoing: \$2.1 Million
 - o One-time: \$2.8 Million
- New Programs and Enhanced Levels of Service – Development of new programs or heightened levels of service
 - o Ongoing: \$2.4 Million
 - o One-time: \$2.0 Million

A discussion ensued regarding:

- The increase in insurance premiums
- Possibility of salaries increases
- Identifying private/public partnership opportunities
- Thomas Street Bridge
- Resident concerns over streets
- Contract oversight

Mayor asked Council for their one-time and on-going priorities.

Council Member Pineda started the discussion, expressing a priority for additional partnerships to allow the City to utilize outside resources to help leverage projects.

Vice Mayor Kilgore expressed a priority to focus on Historic Avondale, public safety, and traffic/streets. Vice Mayor Kilgore also presented interest in hosting events in the park to generate revenue through sponsorships or advertisements.

Council Member Malone seconded Council Member Pineda's priority of utilizing contracts to leverage projects but requested close oversight over vendors.

In response to an inquiry from Council Member Malone, Ms. Montes provided Council with a status report on the following items:

- Implementation of Court case management system
- Expansion of Festival Fields, Resource Center, and Police Department
- Goodyear Farms cemetery gate
- Electronic payment kiosk
- Agenda management software
- Fire station
- Gateway project

Council Member Malone expressed interest in a single sign-on for residents.

Council Member Pineda expressed interest in the City providing a procurement law community class to encourage bids from smaller companies.

Council and staff concluded the Retreat with a final discussion on the following:

- Increase in police staffing – more officers on the street.
- Increased code enforcement – ensuring right of ways are kept clean
- When planning housing communities - conduct traffic studies first.

- Offer affordable housing for all income levels.
- Active Shooter Training for Council
- Employee Appreciation Event
-

Mr. Montoya thanked everyone for their presentation and participation in the retreat. Mr. Montoya thanked Rachel Brito, Executive Assistant to the City Manager, for organizing the event.

3 ADJOURNMENT

Meeting adjourned at 9:01 p.m.

Mayor Kenn Weise

Marcella Carrillo, CMC
City Clerk

CERTIFICATION

I hereby certify that the foregoing minutes are a true and correct copy of the minutes of the Council Retreat of the City of Avondale held on the 10th day of December 2018. I further certify that the meeting was duly called and held and that the quorum was present.

Marcella Carrillo, CMC
City Clerk

MINUTES OF THE AVONDALE CITY COUNCIL
CITY OF AVONDALE, ARIZONA
CITY COUNCIL CHAMBER
December 17, 2018

A **Regular Meeting** of the City Council of the City of Avondale, Arizona was convened at 11465 Civic Center Drive in open and public session at 7:00 p.m.

Following a moment of silent reflection, Mayor Kenn Weise led the Pledge of Allegiance.

Members Present: Mayor Kenn Weise; Vice Mayor Bryan Kilgore; Councilmembers Tina Conde, Pat Dennis, Veronica Malone, Mike Pineda, and Lorenzo Sierra.

Members Absent: None.

Other Municipal Officials Present: Charles Montoya, City Manager; Gina Montes, Assistant City Manager; Marcella Carrillo, City Clerk; Andrew McGuire, City Attorney; Nicholle Harris, Assistant City Attorney; Jeffrey Scheetz, Chief Information Officer; Pier Simeri, Community Relations and Public Affairs Director; Lindsey Duncan, Finance and Budget Director; Paul Adams, Fire Chief; Cherlene Penilla, Human Resources Director; Christopher Lopez, Neighborhood and Family Services Director; Kirk Haines, Parks and Recreation Director; Craig Jennings, Municipal Court Judge; Dale Nannenga, Chief of Police; Tracy Stevens, Development and Engineering Services Director; Cindy Blackmore, Public Works Director; Daniel Davis, Economic Development Director; Abril Ruiz-Ortega, Court Administrator, Linda Mendenhall, Deputy City Clerk; Cheryl Covert, Employment Business Development Specialist; David Janover, City Engineer.

Audience: Members of the public were present.

1 ROLL CALL AND STATEMENT OF PARTICIPATION BY THE CITY CLERK

2 RECOGNITION ITEMS (MAYOR PRESENTATIONS)

a. RESOLUTION 3507-1218 – HONORING COUNCIL MEMBER LORENZO SIERRA

Council Member Sierra was joined by his wife, Robin, to accept Resolution 3507-1218, honoring him for his service. Mayor Weise read the Resolution aloud.

Motion was made by Vice Mayor Kilgore, seconded by Council Member Malone, to approve Resolution 3507-1218, honoring the service of Council Member Lorenzo Sierra for his service as Avondale City Council Member from 2015 - 2018.

Upon vote, the motion carried unanimously 7 to 0.

Council Member Conde	Aye
Council Member Dennis	Aye
Council Member Malone	Aye
Council Member Nielson	Aye
Council Member Pineda	Aye
Vice Mayor Kilgore	Aye
Mayor Weise	Aye

Council Member Sierra spoke about his experience serving as a Council Member and recognized many citizens in attendance for their dedication to the community. He announced a grant received

from the Desert Diamond Casino for \$20,000 to purchase books for the summer reading program and expressed his appreciation for the funding. He thanked his family for their support during his years on Council and city staff for all of the support and kindness shown to him over the years.

Council Member Sierra expressed his appreciation for each Council Member and shared positive qualities that he has observed in all of them.

Mayor and the City Council individually expressed their appreciation for Council Member Sierra, reflected on past experiences and shared positive qualities they have observed in him.

3 UNSCHEDULED PUBLIC APPEARANCES

(Limit three minutes per person. Please state your name.)

No speaker request cards were submitted.

4 CONSENT AGENDA

Items on the consent agenda are of a routine nature or have been previously studied by the City Council at a work session. They are intended to be acted upon in one motion. Council members may pull items from consent if they would like them considered separately.

Mayor Weise asked if any Councilmember wished to have an item removed from the Consent Agenda. Having no requests from Council, motion was made by Vice Mayor Kilgore, seconded by Council Member Conde, to approve the Consent Agenda.

Upon vote, the motion carried unanimously 7 to 0.

Council Member Conde	Aye
Council Member Dennis	Aye
Council Member Malone	Aye
Council Member Nielson	Aye
Council Member Pineda	Aye
Vice Mayor Kilgore	Aye
Mayor Weise	Aye

a. LIQUOR LICENSE SERIES 12 (RESTAURANT) – PIAZZA ROMANA

Approved an application for a Series 12 (Restaurant) Liquor License submitted by Rachel Ann Piazza to sell all spirituous liquors at Piazza Romana located at 10210 West McDowell Road, Suite 120 in Avondale. The Council will take appropriate action

b. HARVARD-TOBIN (VERDE TRAILS II) ANNEXATION

This item was for informational purposes only and no action from the City Council was required. Staff to provide an update on a request regarding the proposed annexation of 42 acres of land located east of the southeast corner of Avondale Boulevard and Broadway Road. The applicant is Carolyn Oberholtzer of Bergin, Frakes, Smalley, and Oberholtzer, PLLC. In order to meet annexation process timeframes, staff filed a withdrawal of the blank petition and affidavit and will file a revised blank petition and affidavit by December 17, 2018 in order to hold the public hearing on January 14, 2019.

c. WIRELESS PROVIDER MASTER LICENSES APPLICATION FOR EXTENET SYSTEMS, INC.

Approved a Wireless Provider Master License Application for Extenet Systems, Inc.

d. ECONOMIC DEVELOPMENT AGREEMENT – GUNBO, LLC.

Approved the Second Amendment to the amended and restated Economic Development Agreement with Gunbo, LLC regarding the construction and operation of Portillo's Restaurant and authorize the Mayor and City Manager and City Clerk to execute the necessary documents.

e. RESOLUTION 3506-1218 AMENDING CITY COURT FEES ON THE CURRENT FEE SCHEDULE

Adopted Resolution 3506-1218 amending City Court Fees on the Current Fee Schedule for a \$10 increase on the Defensive Driving Diversion Fee and Fines and authorize the Mayor and City Manager and City Clerk to execute the necessary documents.

f. RESOLUTION 3508-1218 - BANK ACCOUNT SIGNATURE AUTHORITY AND DECLARING AN EMERGENCY

Adopted Resolution 3508-1218 authorizing certain city officials and staff to execute and endorse checks and other items for and on behalf of the City, authorizing certain city staff to authorize certain electronic payments and transfers of funds, and declaring an emergency; and authorize the Mayor and City Manager and City Clerk to execute the necessary documents.

g. RESOLUTION 3509-1218 - CAPITAL IMPROVEMENT PLAN COMMITTEE REVISION TO BYLAWS

Approved amendments to the bylaws of the City of Avondale Capital Improvement Plan Committee restructuring the committee membership and authorize the Mayor, or City Manager and City Clerk to execute the necessary documents.

h. ORDINANCE 1679-1218 - AMENDING CITY CODE, CHAPTER 13 – LICENSES, TAXATION AND MISCELLANEOUS BUSINESS REGULATIONS

Adopted Ordinance 1679-1218 amending Chapter 13 of the Avondale City Code, providing the city clerk with designated authority to evaluate and approve special event liquor licenses and authorize the Mayor and City Manager and City Clerk to execute the necessary documents.

5 PUBLIC HEARING AND CONDITIONAL USE PERMIT FOR DYSART COMMONS (T-MOBILE) – (PL-18-0199)

Charles Montoya, City Manager, introduced item and explained the applicant requested the item be continued until January 14th.

Mayor Weise provided an update on a conversation with the cell tower representative regarding outreach with the community and City Council.

Council Member Dennis moved to continue agenda item 5, a request by Gary Cassel with Clearblue Services, on behalf of TMobile, to approve a Conditional Use Permit (CUP) for a wireless service facility on a 9.8-acre parcel owned by Dysart Investment LLC, located at the northeast corner of Dysart and Thomas Roads within the Dysart Commons commercial center until a further date; Vice Mayor Kilgore seconded the motion.

Upon vote, the motion was carried unanimously 7 to 0.

Council Member Conde	Aye
Council Member Dennis	Aye
Council Member Malone	Aye
Council Member Nielson	Aye
Council Member Pineda	Aye
Vice Mayor Kilgore	Aye
Mayor Weise	Aye

6 RATIFICATION OF PAST PRIOR COUNCIL ACTION

Pursuant to A.R.S. § 38.431.0S(B), the City Council ratified prior action taken during the December 3, 2018 Council meeting. Specifically, the Council intends to ratify its vote to approve the executive session agenda for the December 3, 2018 executive session and its vote to convene into executive session during the December 3, 2018 Council meeting. The agenda for that executive session stated the following:

City Council may hold an executive session pursuant to (i) Ariz. Rev. Stat§ 38-431.03 (A)(I) for discussion or consideration of the performance of the City Manager (ii) Ariz. Rev. Stat §38-431.03(A)(3) for discussion or consultation for legal advice with the city's attorney and (iii) Ariz. Rev. Stat § 34-431.0I(A)(4) for discussion or consultation with the city's attorney in order to consider its position of pending legal issues.

Notice of the executive session was posted on December 2, 2018, which was a Sunday. During the December 3, 2018 public meeting, the Council voted to approve the executive session agenda and to convene into executive session to discuss the items stated in the executive session agenda. The Council intends to ratify this prior action. No vote was taken during the executive session. Any member of the public may obtain a detailed written description of the action to be ratified by contacting Gina Montes, Assistant City Manager, at 623-333-1000 or gmontes@avondaleaz.gov.

Council Member Dennis moved to ratify prior action taken during the December 3, 2018 Council meeting. Council Member Malone seconded the motion. Upon vote, the motion carried unanimously.

Council Member Pineda	Aye
Council Member Dennis	Aye
Council Member Malone	Aye
Mayor Weise	Aye
Vice Mayor Kilgore	Aye
Council Member Sierra	Aye
Council Member Conde	Aye

7 EXECUTIVE SESSION

The City Council held an executive session pursuant to A.R.S. § 38-431.03(A)(1), (A)(3), and (A)(4) to discuss, and consult with legal counsel for advice on, the performance and continued use of Andrew J. McGuire and the law firm of Gust Rosenfeld, P.L.C. as the City Attorney.

8 ADJOURN INTO EXECUTIVE SESSION

Council Member Sierra led Council into Executive Session. Council Member Pineda moved to adjourn the meeting into Executive Session; Council Member Malone seconded the motion.

Upon vote, the motion was carried unanimously 7 to 0.

Meeting reconvened at 9:33 p.m.

9 LEGAL SERVICES

Discussion, direction and action to the City Manager regarding legal services provided by Andrew McGuire and Gust Rosenfeld.

Vice Mayor Kilgore made a motion to terminate services provided by Andrew McGuire and Gust Rosenfeld, provide thirty-day notice to terminate current arrangement, work with a recruitment company that will assist City Council and staff with the recruitment of a City Attorney within three months until hire, continue current relationships with Susan Segal and Gust Rosenfeld to assist the City with current and future Human Resource issues, continue services with Jeff Matura until a city attorney is hired. Once a new city attorney is hired, additional staff shall be hired, and the City will then make final decisions relating to Human Resource and other specialty services, and to allow additional services for contracts, City Attorney, and contracts of sale. Motion died for lack of a second.

Andrew McGuire, City Attorney, inquired about the transition period moving forward.

Charles Montoya, City Manager, and City Council discussed the following with respect to the plan transitioning to an in-house City Attorney:

- Pending legal service items and large projects to be maintained by Andrew McGuire and Gust Rosenfeld.
- Future items to be forwarded to Jeff Matura's firm.
- Susan Segal to continue to manage Human Resource functions.
- Timeframe to transition legal services.

Kevin Barrett with Barrett Matura, provided input with respect to a transition period.

Mayor Weise made a motion to grant authority to the City Manager to transition from contract legal services to in-house legal services by a date not to exceed July 1, 2019. Vice Mayor Kilgore seconded the motion.

Upon vote, the motion was carried unanimously 7 to 0.

Council Member Pineda	Aye
Council Member Dennis	Aye
Council Member Malone	Aye
Mayor Weise	Aye
Vice Mayor Kilgore	Aye
Council Member Sierra	Aye

Council Member Conde Aye

10 ADJOURNMENT

There being no further business before the Council, Council Member Sierra called for a motion to adjourn. Vice Mayor Kilgore made a motion to adjourn the meeting; Council Member Pineda seconded the motion.

Upon vote, the motion was carried unanimously 7 to 0.

Council Member Pineda	Aye
Council Member Dennis	Aye
Council Member Malone	Aye
Mayor Weise	Aye
Vice Mayor Kilgore	Aye
Council Member Sierra	Aye
Council Member Conde	Aye

Meeting adjourned at 9:52 p.m.

Mayor Kenn Weise

Marcella Carrillo, CMC
City Clerk

CERTIFICATION

I hereby certify that the foregoing minutes are a true and correct copy of the minutes of the Regular Meeting of the Council of the City of Avondale held on the 17th day of December, 2018. I further certify that the meeting was duly called and held and that the quorum was present.

Marcella Carrillo, CMC
City Clerk



CITY COUNCIL AGENDA

SUBJECT:

Professional Services Agreement with Stanley
Consultants - 4th Street Lift Station Design
Services

MEETING DATE:

2/4/2019

TO: Mayor and Council

FROM: Cindy Blackmore, Public Works Director, (623) 333-4410

THROUGH: Charles A. Montoya, City Manager, (623) 333-1016

PURPOSE:

Staff is requesting City Council approve a Professional Service Agreement with Stanley Consultants, Inc. to provide design and post-design services for the 4th Street Lift Station upgrades in the amount of \$123,075 and authorize the Mayor, or City Manager and City Clerk to execute the contract documents.

BACKGROUND:

The 4th Street Lift Station was constructed in 1991 and has had few updates or improvements since construction. In November 2018, the City completed a facility assessment of the lift station. The assessment itemized several improvements critical to the plant operation that need to be completed to ensure the facility will continue to operate reliably. Funds are budgeted in the current year's Capital Improvement Plan to address lift station rehabilitation.

On June 27, 2018 Stanley Consultants, Inc. provided a statement of qualifications in response to the City's solicitation EN 18-111 and was selected for placement on the FY 2018-2019 Professional Consultants Selection list.

DISCUSSION:

Stanley Consultants, Inc. was selected from the City's Professional Consultants Selection List due to their expertise with lift stations and their familiarization with the site from having completed the facility assessment under an earlier contract. The contract includes design services, post-design services and construction management oversight. The design phase of the project is expected to be completed in approximately six months from notice to proceed, and construction is estimated to be completed in nine months. The fee for the design and post-design services is \$123,075.

Services to be provide under this contract include:

- Conduct and Attend Design and Construction Meetings
- Progress Monitoring and Reporting
- Cost Estimates
- Mechanical, Electrical and I&C Design
- 30%, 90% Plans and Final Documents Submittal

Staff plans an investigation of the sewer pipes immediately upstream of the lift station during the facility design period. Should the investigation reveal that the pipes also need to be rehabilitated, staff will look to complete this work simultaneously with the lift station upgrades as a separate task. If necessary, that item would then be brought to Council for consideration as a separate agreement.

BUDGET IMPACT:

Funds for this project are available in Capital Improvement Plan account 513-1378-00-8620, Lift Station Rehabilitation Program.

RECOMMENDATION:

Staff recommends that the City Council approve a Professional Service Agreement with Stanley Consultants, Inc. to provide design and post-design services for the 4th Street Lift Station upgrades in the amount of \$123,075 and authorize the Mayor, or City Manager and City Clerk to execute the contract documents.

ATTACHMENTS:

Description

[PSA - Stanley Consultants](#)

**PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF AVONDALE
AND
STANLEY CONSULTANTS, INC.**

THIS PROFESSIONAL SERVICES AGREEMENT (this “Agreement”) is entered into as of January 22, 2019, between the City of Avondale, an Arizona municipal corporation (the “City”), and Stanley Consultants, Inc., an Iowa corporation (the “Consultant”).

RECITALS

A. The City issued a Request for Qualifications, EN 18-111 “FY 2018/2019 Professional Consultants Selection List” (the “RFQ”), a copy of which is on file in the City’s Finance Office and incorporated herein by reference, seeking statements of qualifications from vendors for professional consulting services.

B. The Consultant responded to the RFQ by submitting a Statement of Qualifications (the “SOQ”), attached hereto as Exhibit A and incorporated herein by reference, and the City desires to enter into an Agreement with the Consultant to provide design and post-design services for the 4th Street Lift Station upgrades (the “Services”).

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing introduction and recitals, which are incorporated herein by reference, the following mutual covenants and conditions, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the City and the Consultant hereby agree as follows:

1. Term of Agreement. This Agreement shall be effective as of the date first set forth above and shall remain in full force and effect until January 21, 2020, unless terminated as otherwise provided in this Agreement.

2. Scope of Work. Consultant shall provide the Services as set forth in the Scope of Work attached hereto as Exhibit B and incorporated herein by reference.

3. Compensation. The City shall pay Consultant an amount not to exceed \$123,075.00 for the Services at the rates set forth in the Fee Proposal attached hereto as Exhibit C and incorporated herein by reference.

4. Payments. The City shall pay the Consultant monthly, based upon work performed and completed to date, and upon submission and approval of invoices. All invoices shall document and itemize all work completed to date. Each invoice statement shall include a record of time expended and work performed in sufficient detail to justify payment.

5. Safety Plan. Consultant shall provide the Services in accordance with a safety plan that is compliant with Occupational Safety and Health Administration (“OSHA”), American

National Standards Institute and National Institute for Occupational Safety and Health standards. If, in the Consultant's sole determination, the Services to be provided do not require a safety plan, Consultant shall notify the City, in writing, describing the reasons a safety plan is unnecessary. The City reserves the right to request a safety plan following such notification.

6. Documents. All documents, including any intellectual property rights thereto, prepared and submitted to the City pursuant to this Agreement shall be the property of the City. Any use for extensions of work beyond the Services or for any other projects unrelated to the Services without written verification or adaptation by the Consultant for the specific purposes intended will be at the City's sole risk and without liability or legal exposure to the Consultant.

7. Consultant Personnel. Consultant shall provide adequate, experienced personnel, capable of and devoted to the successful performance of the Services under this Agreement. Consultant agrees to assign specific individuals to key positions. If deemed qualified, the Consultant is encouraged to hire City residents to fill vacant positions at all levels. Consultant agrees that, upon commencement of the Services to be performed under this Agreement, key personnel shall not be removed or replaced without prior written notice to the City. If key personnel are not available to perform the Services for a continuous period exceeding 30 calendar days, or are expected to devote substantially less effort to the Services than initially anticipated, Consultant shall immediately notify the City of same and shall, subject to the concurrence of the City, replace such personnel with personnel possessing substantially equal ability and qualifications.

8. Inspection; Acceptance. All work shall be subject to inspection and acceptance by the City at reasonable times during Consultant's performance. The Consultant shall provide and maintain a self-inspection system that is acceptable to the City.

9. Licenses; Materials. Consultant shall maintain in current status all federal, state and local licenses and permits required for the operation of the business conducted by the Consultant. The City has no obligation to provide Consultant, its employees or subcontractors any business registrations or licenses required to perform the specific services set forth in this Agreement. The City has no obligation to provide tools, equipment or material to Consultant.

10. Performance Warranty. Consultant warrants that the Services rendered will conform to the requirements of this Agreement and with the care and skill ordinarily used by members of the same profession practicing under similar circumstances at the same time and in the same locality.

11. Indemnification. To the fullest extent permitted by law, the Consultant shall indemnify and hold harmless the City and each council member, officer, employee or agent thereof (the City and any such person being herein called an "Indemnified Party"), for, from and against any and all losses, claims, damages, liabilities, costs and expenses (including, but not limited to, reasonable attorneys' fees, court costs and the costs of appellate proceedings) to which any such Indemnified Party may become subject, under any theory of liability whatsoever ("Claims") to the extent that such Claims (or actions in respect thereof) are caused by the negligent acts, recklessness or intentional misconduct of the Consultant, its officers, employees, agents, or any tier of subcontractor in connection with Consultant's work or services in the

performance of this Agreement. The amount and type of insurance coverage requirements set forth below will in no way be construed as limiting the scope of the indemnity in this Section.

12. Insurance.

12.1 General.

A. Insurer Qualifications. Without limiting any obligations or liabilities of Consultant, Consultant shall purchase and maintain, at its own expense, hereinafter stipulated minimum insurance with insurance companies authorized to do business in the State of Arizona pursuant to ARIZ. REV. STAT. § 20-206, as amended, with an AM Best, Inc. rating of A- or above with policies and forms satisfactory to the City. Failure to maintain insurance as specified herein may result in termination of this Agreement at the City's option.

B. No Representation of Coverage Adequacy. By requiring insurance herein, the City does not represent that coverage and limits will be adequate to protect Consultant. The City reserves the right to review any and all of the insurance policies and/or endorsements cited in this Agreement, but has no obligation to do so. Failure to demand such evidence of full compliance with the insurance requirements set forth in this Agreement or failure to identify any insurance deficiency shall not relieve Consultant from, nor be construed or deemed a waiver of, its obligation to maintain the required insurance at all times during the performance of this Agreement.

C. Additional Insured. All insurance coverage, except Workers' Compensation insurance and Professional Liability insurance, if applicable, shall name, to the fullest extent permitted by law for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, directors, officials and employees as Additional Named Insured as specified under the respective coverage sections of this Agreement.

D. Coverage Term. All insurance required herein shall be maintained in full force and effect until all work or services required to be performed under the terms of this Agreement are satisfactorily performed, completed and formally accepted by the City, unless specified otherwise in this Agreement.

E. Primary Insurance. Consultant's insurance shall be primary insurance with respect to performance of this Agreement and in the protection of the City as an Additional Insured.

F. Claims Made. In the event any insurance policies required by this Agreement are written on a "claims made" basis, coverage shall extend, either by keeping coverage in force or purchasing an extended reporting option, for three years past completion and acceptance of the services. Such continuing coverage shall be evidenced by submission of annual Certificates of Insurance and necessary endorsements citing applicable coverage is in force and contains the provisions as required herein for the three-year period.

G. Waiver. All policies, except for Professional Liability, including Workers' Compensation insurance, shall contain a waiver of rights of recovery (subrogation) against the City, its agents, representatives, officials, officers and employees for any claims arising out of the work or services of Consultant. Consultant shall arrange to have such subrogation waivers incorporated into each policy via formal written endorsement thereto.

H. Policy Deductibles and/or Self-Insured Retentions. The policies set forth in these requirements may provide coverage that contains deductibles or self-insured retention amounts. Such deductibles or self-insured retention shall not be applicable with respect to the policy limits provided to the City. Consultant shall be solely responsible for any such deductible or self-insured retention amount.

I. Use of Subcontractors. If any work under this Agreement is subcontracted in any way, Consultant shall execute written agreements with its subcontractors containing the indemnification provisions set forth above and insurance requirements set forth herein protecting the City and Consultant. Consultant shall be responsible for executing any agreements with its subcontractors and obtaining certificates of insurance verifying the insurance requirements.

J. Evidence of Insurance. Prior to commencing any work or services under this Agreement, Consultant will provide the City with suitable evidence of insurance in the form of certificates of insurance and a copy of the declaration page(s) of the insurance policies as required by this Agreement, issued by Consultant's insurance insurer(s) as evidence that policies are placed with acceptable insurers as specified herein and provide the required coverages, conditions and limits of coverage specified in this Agreement and that such coverage and provisions are in full force and effect. Confidential information such as the policy premium may be redacted from the declaration page(s) of each insurance policy, provided that such redactions do not alter any of the information required by this Agreement. The City shall reasonably rely upon the certificates of insurance and declaration page(s) of the insurance policies as evidence of coverage but such acceptance and reliance shall not waive or alter in any way the insurance requirements or obligations of this Agreement. If any of the policies required by this Agreement expire during the life of this Agreement, it shall be Consultant's responsibility to forward renewal certificates and declaration page(s) to the City 30 days prior to the expiration date. All certificates of insurance and declarations required by this Agreement shall be identified by referencing the RFQ number and title or this Agreement. A \$25.00 administrative fee shall be assessed for all certificates or declarations received without the appropriate RFQ number and title or a reference to this Agreement, as applicable. Additionally, certificates of insurance and declaration page(s) of the insurance policies submitted without referencing the appropriate RFQ number and title or a reference to this Agreement, as applicable, will be subject to rejection and may be returned or discarded. Certificates of insurance and declaration page(s) shall specifically include the following provisions:

(1) The City, its agents, representatives, officers, directors, officials and employees are Additional Insureds as follows:

(a) Commercial General Liability – Under Insurance Services Office, Inc., (“ISO”) Form CG 20 10 03 97 or equivalent.

(b) Auto Liability – Under ISO Form CA 20 48 or equivalent.

(c) Excess Liability – Follow Form to underlying insurance.

(2) Consultant’s insurance shall be primary insurance with respect to performance of this Agreement.

(3) All policies, except for Professional Liability, including Workers’ Compensation, waive rights of recovery (subrogation) against City, its agents, representatives, officers, officials and employees for any claims arising out of work or services performed by Consultant under this Agreement.

(4) Intentionally omitted.

K. Endorsements. Consultant shall provide the City with the necessary endorsements to ensure City is provided the insurance coverage set forth in this Section.

12.2 Required Insurance Coverage.

A. Commercial General Liability. Consultant shall maintain “occurrence” form Commercial General Liability insurance with an unimpaired limit of not less than \$1,000,000 for each occurrence, \$2,000,000 Products and Completed Operations Annual Aggregate and a \$2,000,000 General Aggregate Limit. The policy shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal injury and advertising injury. Coverage under the policy will be at least as broad as ISO policy form CG 00 010 93 or equivalent thereof, including but not limited to, separation of insured’s clause. To the fullest extent allowed by law, for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, officials and employees shall be cited as an Additional Insured under ISO, Commercial General Liability Additional Insured Endorsement form CG 20 10 03 97, or equivalent, which shall read “Who is an Insured (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of “your work” for that insured by or for you.” If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be “follow form” equal or broader in coverage scope than underlying insurance.

B. Vehicle Liability. Consultant shall maintain Business Automobile Liability insurance with a limit of \$1,000,000 each occurrence on Consultant's owned, hired and non-owned vehicles assigned to or used in the performance of the Consultant's work or services under this Agreement. Coverage will be at least as broad as ISO coverage code "1" "any auto" policy form CA 00 01 12 93 or equivalent thereof. To the fullest extent allowed by law, for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, directors, officials and employees shall be cited as an Additional Insured under ISO Business Auto policy Designated Insured Endorsement form CA 20 48 or equivalent. If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

C. Professional Liability. If this Agreement is the subject of any professional services or work, or if the Consultant engages in any professional services or work in any way related to performing the work under this Agreement, the Consultant shall maintain Professional Liability insurance covering negligent errors and omissions arising out of the Services performed by the Consultant, or anyone employed by the Consultant, or anyone for whose negligent acts, mistakes, errors and omissions the Consultant is legally liable, with an unimpaired liability insurance limit of \$2,000,000 each claim and \$2,000,000 annual aggregate.

D. Workers' Compensation Insurance. If Consultant employs anyone who is required by law to be covered by workers' compensation insurance, Consultant shall maintain Workers' Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction over Consultant's employees engaged in the performance of work or services under this Agreement and shall also maintain Employers Liability Insurance of not less than \$500,000 for each accident, \$500,000 disease for each employee and \$1,000,000 disease policy limit.

12.3 Cancellation and Expiration Notice. Insurance required herein shall not expire, be canceled, or be materially changed without 30 days' prior written notice to the City.

13. Termination; Cancellation.

13.1 For City's Convenience. This Agreement is for the convenience of the City and, as such, may be terminated without cause after receipt by Consultant of written notice by the City. Upon termination for convenience, Consultant shall be paid for all undisputed services performed to the termination date.

13.2 For Cause. If either party fails to perform any obligation pursuant to this Agreement and such party fails to cure its nonperformance within 30 days after notice of nonperformance is given by the non-defaulting party, such party will be in default. In the event of such default, the non-defaulting party may terminate this Agreement immediately for cause and will have all remedies that are available to it at law or in equity including, without limitation, the remedy of specific performance. If the nature of the defaulting party's nonperformance is such that it cannot reasonably be cured within 30 days, then the defaulting party will have such additional periods of time as may be reasonably necessary under the circumstances, provided the

defaulting party immediately (A) provides written notice to the non-defaulting party and (B) commences to cure its nonperformance and thereafter diligently continues to completion the cure of its nonperformance. In no event shall any such cure period exceed 90 days. In the event of such termination for cause, payment shall be made by the City to the Consultant for the undisputed portion of its fee due as of the termination date.

13.3 Due to Work Stoppage. This Agreement may be terminated by the City upon 30 days' written notice to Consultant in the event that the Services are permanently abandoned. In the event of such termination due to work stoppage, payment shall be made by the City to the Consultant for the undisputed portion of its fee due as of the termination date.

13.4 Conflict of Interest. This Agreement is subject to the provisions of ARIZ. REV. STAT. § 38-511. The City may cancel this Agreement without penalty or further obligations by the City or any of its departments or agencies if any person significantly involved in initiating, negotiating, securing, drafting or creating this Agreement on behalf of the City or any of its departments or agencies is, at any time while this Agreement or any extension of this Agreement is in effect, an employee of any other party to this Agreement in any capacity or a consultant to any other party of this Agreement with respect to the subject matter of this Agreement.

13.5 Gratuities. The City may, by written notice to the Consultant, cancel this Agreement if it is found by the City that gratuities, in the form of economic opportunity, future employment, entertainment, gifts or otherwise, were offered or given by the Consultant or any agent or representative of the Consultant to any officer, agent or employee of the City for the purpose of securing this Agreement. In the event this Agreement is canceled by the City pursuant to this provision, the City shall be entitled, in addition to any other rights and remedies, to recover and withhold from the Consultant an amount equal to 150% of the gratuity.

13.6 Agreement Subject to Appropriation. The City is obligated only to pay its obligations set forth in this Agreement as may lawfully be made from funds appropriated and budgeted for that purpose during the City's then current fiscal year. The City's obligations under this Agreement are current expenses subject to the "budget law" and the unfettered legislative discretion of the City concerning budgeted purposes and appropriation of funds. Should the City elect not to appropriate and budget funds to pay its Agreement obligations, this Agreement shall be deemed terminated at the end of the then-current fiscal year term for which such funds were appropriated and budgeted for such purpose and the City shall be relieved of any subsequent obligation under this Agreement. The parties agree that the City has no obligation or duty of good faith to budget or appropriate the payment of the City's obligations set forth in this Agreement in any budget in any fiscal year other than the fiscal year in which this Agreement is executed and delivered. The City shall be the sole judge and authority in determining the availability of funds for its obligations under this Agreement. The City shall keep Consultant informed as to the availability of funds for this Agreement. The obligation of the City to make any payment pursuant to this Agreement is not a general obligation or indebtedness of the City. Consultant hereby waives any and all rights to bring any claim against the City from or relating in any way to the City's termination of this Agreement pursuant to this section.

14. Miscellaneous.

14.1 Independent Contractor. It is clearly understood that each party will act in its individual capacity and not as an agent, employee, partner, joint venturer, or associate of the other. An employee or agent of one party shall not be deemed or construed to be the employee or agent of the other for any purpose whatsoever. The Consultant acknowledges and agrees that the Services provided under this Agreement are being provided as an independent contractor, not as an employee or agent of the City. Consultant, its employees and subcontractors are not entitled to workers' compensation benefits from the City. The City does not have the authority to supervise or control the actual work of Consultant, its employees or subcontractors. The Consultant, and not the City, shall determine the time of its performance of the services provided under this Agreement so long as Consultant meets the requirements of its agreed Scope of Work as set forth in Section 2 above and in Exhibit B. Consultant is neither prohibited from entering into other contracts nor prohibited from practicing its profession elsewhere. City and Consultant do not intend to nor will they combine business operations under this Agreement.

14.2 Applicable Law; Venue. This Agreement shall be governed by the laws of the State of Arizona and suit pertaining to this Agreement may be brought only in courts in Maricopa County, Arizona.

14.3 Laws and Regulations. Consultant shall keep fully informed and shall at all times during the performance of its duties under this Agreement ensure that it and any person for whom the Consultant is responsible abides by, and remains in compliance with, all rules, regulations, ordinances, statutes or laws affecting the Services, including, but not limited to, the following: (A) existing and future City and County ordinances and regulations, (B) existing and future State and Federal laws and (C) existing and future OSHA standards.

14.4 Amendments. This Agreement may be modified only by a written amendment signed by persons duly authorized to enter into contracts on behalf of the City and the Consultant.

14.5 Provisions Required by Law. Each and every provision of law and any clause required by law to be in this Agreement will be read and enforced as though it were included herein and, if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, this Agreement will promptly be physically amended to make such insertion or correction.

14.6 Severability. The provisions of this Agreement are severable to the extent that any provision or application held to be invalid by a Court of competent jurisdiction shall not affect any other provision or application of this Agreement which may remain in effect without the invalid provision or application.

14.7 Entire Agreement; Interpretation; Parol Evidence. This Agreement represents the entire agreement of the parties with respect to its subject matter, and all previous agreements, whether oral or written, entered into prior to this Agreement are hereby revoked and superseded by this Agreement. No representations, warranties, inducements or oral agreements have been made by any of the parties except as expressly set forth herein, or in any other

contemporaneous written agreement executed for the purposes of carrying out the provisions of this Agreement. This Agreement shall be construed and interpreted according to its plain meaning, and no presumption shall be deemed to apply in favor of, or against the party drafting this Agreement. The parties acknowledge and agree that each has had the opportunity to seek and utilize legal counsel in the drafting of, review of, and entry into this Agreement.

14.8 Assignment; Delegation. No right or interest in this Agreement shall be assigned or delegated by Consultant without prior, written permission of the City, signed by the City Manager. Any attempted assignment or delegation by Consultant in violation of this provision shall be a breach of this Agreement by Consultant.

14.9 Subcontracts. No subcontract shall be entered into by the Consultant with any other party to furnish any of the material or services specified herein without the prior, written approval of the City. The Consultant is responsible for performance under this Agreement whether or not subcontractors are used. Failure to pay subcontractors in a timely manner pursuant to any subcontract shall be a material breach of this Agreement by Consultant.

14.10 Rights and Remedies. No provision in this Agreement shall be construed, expressly or by implication, as waiver by the City of any existing or future right and/or remedy available by law in the event of any claim of default or breach of this Agreement. The failure of the City to insist upon the strict performance of any term or condition of this Agreement or to exercise or delay the exercise of any right or remedy provided in this Agreement, or by law, or the City's acceptance of and payment for services, shall not release the Consultant from any responsibilities or obligations imposed by this Agreement or by law, and shall not be deemed a waiver of any right of the City to insist upon the strict performance of this Agreement.

14.11 Attorneys' Fees. In the event either party brings any action for any relief, declaratory or otherwise, arising out of this Agreement or on account of any breach or default hereof, the prevailing party shall be entitled to receive from the other party reasonable attorneys' fees and reasonable costs and expenses, determined by the court sitting without a jury, which shall be deemed to have accrued on the commencement of such action and shall be enforced whether or not such action is prosecuted through judgment.

14.12 Liens. All materials or services shall be free of all liens and, if the City requests, a formal release of all liens shall be delivered to the City.

14.13 Offset.

A. Offset for Damages. In addition to all other remedies at law or equity, the City may offset from any money due to the Consultant any amounts Consultant owes to the City for damages resulting from breach or deficiencies in performance or breach of any obligation under this Agreement.

B. Offset for Delinquent Fees or Taxes. The City may offset from any money due to the Consultant any amounts Consultant owes to the City for delinquent fees, transaction privilege use taxes and property taxes, including any interest or penalties.

14.14 Notices and Requests. Any notice or other communication required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been duly given if (A) delivered to the party at the address set forth below, (B) deposited in the U.S. Mail, registered or certified, return receipt requested, to the address set forth below or (C) given to a recognized and reputable overnight delivery service, to the address set forth below:

If to the City: City of Avondale
11465 West Civic Center Drive
Avondale, Arizona 85323
Attn: Charles A. Montoya, City Manager

With copy to: GUST ROSENFELD P.L.C.
One East Washington Street, Suite 1600
Phoenix, Arizona 85004-2553
Attn: Andrew J. McGuire

If to Consultant: Stanley Consultants, Inc.
1661 East Camelback Road, Suite 400
Phoenix, Arizona 85016
Attn: Larry Leischner, P.E.

or at such other address, and to the attention of such other person or officer, as any party may designate in writing by notice duly given pursuant to this subsection. Notices shall be deemed received (A) when delivered to the party, (B) three business days after being placed in the U.S. Mail, properly addressed, with sufficient postage or (C) the following business day after being given to a recognized overnight delivery service, with the person giving the notice paying all required charges and instructing the delivery service to deliver on the following business day. If a copy of a notice is also given to a party's counsel or other recipient, the provisions above governing the date on which a notice is deemed to have been received by a party shall mean and refer to the date on which the party, and not its counsel or other recipient to which a copy of the notice may be sent, is deemed to have received the notice.

14.15 Confidentiality of Records. The Consultant shall establish and maintain procedures and controls that are acceptable to the City for the purpose of ensuring that information contained in its records or obtained from the City or from others in carrying out its obligations under this Agreement shall not be used or disclosed by it, its agents, officers, or employees, except as required to perform Consultant's duties under this Agreement. Persons requesting such information should be referred to the City. Consultant also agrees that any information pertaining to individual persons shall not be divulged other than to employees or officers of Consultant as needed for the performance of duties under this Agreement.

14.16 Records and Audit Rights. To ensure that the Consultant and its subcontractors are complying with the warranty under subsection 14.17 below, Consultant's and its subcontractor's books, records, correspondence, accounting procedures and practices, and any other supporting evidence relating to this Agreement, including the papers of any Consultant and its subcontractors' employees who perform any work or services pursuant to this Agreement (all

of the foregoing hereinafter referred to as “Records”), shall be open to inspection and subject to audit and/or reproduction during normal working hours by the City, to the extent necessary to adequately permit (A) evaluation and verification of any invoices, payments or claims based on Consultant’s and its subcontractors’ actual costs (including direct and indirect costs and overhead allocations) incurred, or units expended directly in the performance of work under this Agreement and (B) evaluation of the Consultant’s and its subcontractors’ compliance with the Arizona employer sanctions laws referenced in subsection 14.17 below. To the extent necessary for the City to audit Records as set forth in this subsection, Consultant and its subcontractors hereby waive any rights to keep such Records confidential. For the purpose of evaluating or verifying such actual or claimed costs or units expended, the City shall have access to said Records, even if located at its subcontractors’ facilities, from the effective date of this Agreement for the duration of the work and until three years after the date of final payment by the City to Consultant pursuant to this Agreement. Consultant and its subcontractors shall provide the City with adequate and appropriate workspace so that the City can conduct audits in compliance with the provisions of this subsection. The City shall give Consultant or its subcontractors reasonable advance notice of intended audits. Consultant shall require its subcontractors to comply with the provisions of this subsection by insertion of the requirements hereof in any subcontract pursuant to this Agreement.

14.17 E-verify Requirements. To the extent applicable under ARIZ. REV. STAT. § 41-4401, the Consultant and its subcontractors warrant compliance with all federal immigration laws and regulations that relate to their employees and their compliance with the E-verify requirements under ARIZ. REV. STAT. § 23-214(A). Consultant’s or its subcontractor’s failure to comply with such warranty shall be deemed a material breach of this Agreement and may result in the termination of this Agreement by the City.

14.18 Israel. Consultant certifies that it is not currently engaged in, and agrees for the duration of this Agreement that it will not engage in a “boycott,” as that term is defined in ARIZ. REV. STAT. § 35-393, of Israel.

14.19 Conflicting Terms. In the event of any inconsistency, conflict or ambiguity among the terms of this Agreement, any amendments, the Scope of Work, any City-approved Purchase Order, the Fee Proposal, the RFQ and the Consultant’s SOQ, the documents shall govern in the order listed herein.

14.20 Non-Exclusive Contract. This Agreement is entered into with the understanding and agreement that it is for the sole convenience of the City. The City reserves the right to obtain like goods and services from another source when necessary.

14.21 Cooperative Purchasing. Specific eligible political subdivisions and nonprofit educational or public health institutions (“Eligible Procurement Unit(s)”) are permitted to utilize procurement agreements developed by the City, at their discretion and with the agreement of the awarded Consultant. Consultant may, at its sole discretion, accept orders from Eligible Procurement Unit(s) for the purchase of the Materials and/or Services at the prices and under the terms and conditions of this Agreement, in such quantities and configurations as may be agreed upon between the parties. All cooperative procurements under this Agreement shall be transacted solely between the requesting Eligible Procurement Unit and Consultant. Payment for

such purchases will be the sole responsibility of the Eligible Procurement Unit. The exercise of any rights, responsibilities or remedies by the Eligible Procurement Unit shall be the exclusive obligation of such unit. The City assumes no responsibility for payment, performance or any liability or obligation associated with any cooperative procurement under this Agreement. The City shall not be responsible for any disputes arising out of transactions made by others.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date and year first set forth above.

“City”

CITY OF AVONDALE,
an Arizona municipal corporation

Charles A. Montoya, City Manager

ATTEST:

Marcella Carrillo, City Clerk

(ACKNOWLEDGMENT)

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

On _____, 2019, before me personally appeared Charles A. Montoya, the City Manager of the CITY OF AVONDALE, an Arizona municipal corporation, whose identity was proven to me on the basis of satisfactory evidence to be the person who he claims to be, and acknowledged that he signed the above document, on behalf of the City of Avondale.

Notary Public

(Affix notary seal here)

“Consultant”

STANLEY CONSULTANTS, INC.,
an Iowa corporation

By:_____

Name: _____

Title: _____

(ACKNOWLEDGMENT)

STATE OF _____)
) ss.
COUNTY OF _____)

On _____, 2019, before me personally appeared _____, the _____ of STANLEY CONSULTANTS, INC., an Iowa corporation, whose identity was proven to me on the basis of satisfactory evidence to be the person who he/she claims to be, and acknowledged that he/she signed the above document on behalf of the corporation.

Notary Public

(Affix notary seal here)

EXHIBIT A
TO
PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF AVONDALE
AND
STANLEY CONSULTANTS, INC.

[Consultant's SOQ]

See following pages.



STANLEYCONSULTANTS, Inc

1661 East Camelback Road › Suite 400 › Phoenix, AZ 85016
602.333.2200 › stanleyconsultants.com



June 27, 2018

City Clerk
City of Avondale
11465 West Civic Center Drive, Suite 200
Avondale, Arizona 85323

RE: Statement of Qualifications for FY 2018/2019 Professional Consultants Selection List, Solicitation Number EN18-111

Dear Selection Committee Members:

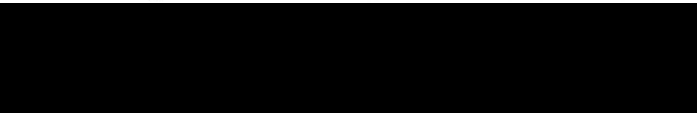
With finite resources, the City of Avondale has to be very careful in planning and executing your capital program. Each activity has to be looked at and evaluated for need versus benefit. You don't have the luxury of being able to just take care of issues or oversights as they come up. You can't afford to have them come up in the first place. As your consultant we must be aware of the situation and actively participate with you in this stewardship. Technical solutions must be realistic and cost-effective. This is not business as usual. Stanley and our members understand that and will help you meet your cost, schedule, and quality goals.

Stanley has a long-standing relationship with Avondale and other valley cities delivering on-call task orders. We have been fortunate to be able to assist you on several projects over the years. These have been primarily in the areas of construction management, structural design, hydrology/hydraulics, street light design, traffic engineering, transportation engineering, wastewater systems, and water distribution and treatment services. We will continue to provide proactive management and valuable technical solutions to the City of Avondale for any and all assigned tasks. Achieving these solutions will be accomplished by the following:

- » Define a detailed project schedule and assign the manpower resources to meet it. We have the depth, breadth and technical expertise of staff to respond quickly and complete your projects on accelerated schedules. We will meet your schedule and budget.
- » Use a proactive management strategy to identify potential project bottlenecks and resolve them early. Our Project Managers will use procedures, controls, and communications necessary to manage schedule, budget, and quality control. This resolves issues before they become problems and minimizes the impact on your project's schedules.
- » Use established relationships with stakeholders to coordinate the activities of all agencies and utilities. Over the past 30 years we have built relationships with many Arizona agencies and utilities. Our successful execution of work for them gives you a strong foundation to work from as we coordinate your projects through to completion. Interagency issues will be resolved quickly. This assures the schedule is protected.

We look forward to your favorable consideration and the continued opportunity to serve the City of Avondale. We are prepared to fully support all engagements assigned with the commitment of key staff necessary to meet your quality and schedule expectations.

Sincerely,


Steven Jimenez, PE
Project Principal

A. GENERAL INFORMATION

A.2 VENDOR IDENTIFICATION INFORMATION

Stanley Consultants, Inc. (Stanley) is a 100% member- owned corporation incorporated under the laws of the State of Iowa. Stanley was established in Muscatine, Iowa as Central States Engineering in 1913. Our Arizona Board of Technical Registration number is 11079. The contact person for this SOQ is:

Steve Jimenez, PE, Project Principal

Direct: 602.333.2324

Email: JimenezSteve@stanleygroup.com

A.3 PRINCIPAL AND LOCAL OFFICE LOCATIONS

Stanley Consultants	
Principal Office	225 Iowa Avenue Muscatine, Iowa 52761 BTR No.: 11079-0 Legal Form: Corporation
Local Office	1661 East Camelback Road, Ste 400 Phoenix, AZ 85016 Tax ID No.: 42-1320758 BTR No.: 11079-1 Legal Form: Corporation

A.4 GENERAL DESCRIPTION OF THE VENDOR

Stanley has been in business for 105 years and is a 900-member consulting firm that provides engineering, architecture, planning, and surveying services.

A.5 CONTRACT TERMINATIONS

Neither Stanley nor any of its officers had any contracts or subcontracts terminated within the last five years.

A.6 CLAIMS

Stanley has not had any claims in Arizona arising from a contract that resulted in litigation or arbitration within the last five years.

A.7 DISCIPLINE SPECIALTY CHECK LIST

See Appendix A

A.8 VENDOR INFORMATION FORM

See Appendix A

B. EXPERIENCE AND QUALIFICATIONS OF THE VENDOR

B.1 DESCRIPTION OF VENDOR'S EXPERIENCE

Stanley provides on-call professional engineering services for many agencies. Our experience includes a broad range of infrastructure projects. We have the depth of staff, appropriate skills and experience to take on task orders. We commit the resources you need for:



CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES

Stanley's Phoenix based Construction Services Department has provided construction management, construction administration and inspection services, estimating, GMP reviews and negotiations, constructability reviews, bid document preparation, QA/QC services, shop drawing review and post design services for the municipalities of Avondale, Glendale, Peoria, Gilbert, Queen Creek, Tempe, Phoenix, Maricopa County and ADOT over the last 5-years.



FOUNDATION AND STRUCTURAL DESIGN

Stanley has been providing foundation and structural design throughout Arizona for over 30 years. You can find our structural solutions in all but three Maricopa County local governments (Litchfield Park, Tolleson, Youngtown). Our diverse ADOT experience covers all districts statewide, from culverts to freeway system interchanges. Besides transportation, our Civil and Structural registrants have also designed all types of underground and above ground water, stormwater, and wastewater structures.



HYDROLOGY/HYDRAULIC PROJECTS

Stanley has experience and performs master plans, hydrology studies and the design of storm water drainage facilities for Avondale, Goodyear Scottsdale, Gilbert, Chandler, Glendale, Surprise, Peoria, Phoenix, FCDMC, and Pinal County.



STREET LIGHT DESIGN

Stanley performs lighting design and control, power distribution, communication systems and emergency power systems for residential, parking lots, industrial, commercial development for municipalities throughout Arizona. We have particular experience assisting municipalities in LED conversions.



TRAFFIC ENGINEERING

Stanley has performed traffic studies for all levels of transportation infrastructure. This includes parking studies to Safe Routes to School. Stanley has the most experience of any local engineering firm with Traffic Circles and Roundabouts. We have provided these services throughout Arizona.



TRANSPORTATION ENGINEERING

Stanley has delivered roadway improvement projects, master plans, transportation planning, traffic calming, sidewalks and intersection designs for Avondale, Goodyear, Glendale, Phoenix, Peoria, Scottsdale Chandler Gilbert, Mesa, Tempe, Queen Creek, Prescott, Sedona, Maricopa County, Page, Bullhead City, Apache County, Mohave County, Kingman, Yuma, Somerton, and Sierra Vista.



WASTEWATER SYSTEMS

Stanley has experience in and performs design and construction services for gravity and force main piping, sewage lift stations, and wastewater treatment plants for the municipalities of Scottsdale, Phoenix, Florence, Eloy, Coolidge, Gilbert, Queen Creek, Chandler,

Glendale, Sedona, Prescott, Pinewood Sanitary District, Yuma, Buckskin Sanitary District, Big Park Sanitary District, Somerton, Tombstone, and Miami.



WATER DISTRIBUTION AND TREATMENT SYSTEMS

Stanley has experience with electrical evaluations and design, well-treatment optimization studies, power studies and performs design and construction services for distribution systems, pump stations, water storage facilities, pressure regulating valves and wells for the municipalities Avondale, Scottsdale, Phoenix, Glendale, Peoria, Mesa, Gilbert, Chandler, Carefree, Prescott, Prescott Valley Mohave County, Yuma and Tombstone.

B2A. COMPLETION SIMILAR PROJECTS



CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES

Heritage District Water Lines Stanley is providing oversight of the Design Engineer and CM@R selected for this \$7.84 million waterline replacement project. The Project is generally described as the installation of two 12" waterlines which parallel Gilbert Road through the Heritage District from Elliot Road north to Olive Avenue. The 12-inch waterlines will supply 8-inch water distribution pipelines that will also be installed as part of this project, replacing the existing antiquated pipelines throughout the Heritage District addressing increased water demand, system redundancy and fire flow for area residential and businesses. A general summary of the work items includes: installation of approximately 3,347 linear feet of 12-inch ductile iron pipe; 4,604 linear feet of 12-inch PVC C-900 pipe; 2,878 linear feet of 8-inch ductile iron pipe; 7,113 linear feet of 8-inch PVC C-900 pipe; 102 gate valves ranging from 6-inch to 12-inch; 14 isolation valves ranging from 6-inch to 8-inch; 24 tapping sleeves. Work also includes 7,668 linear feet of water service replacement; 9 air release valve assemblies; 210 linear feet of 36-inch steel casing installation by jack & bore; 24,770 linear feet of water line abandonment; 12,481 square yards of asphalt removal/replacement.

Organization: Town of Gilbert **Contact:** Ryan Blair **Address, Phone, E-mail:** 90 East Civic Center Drive, Gilbert, AZ 85296; 480.503.6906; ryan.blair@gilbertaz.gov **Services Provided:** Stanley Consultants provided design review, independent cost estimating, GMP review and negotiation, QA, and construction administration and inspection services **Dates of Contract:** Aug 2017 to Oct 2018 (est.)

Lift Station 42 Improvements Work for the \$1.65M JOC delivered project included installation of a 10-foot diameter pre-cast concrete wet well, pumps, above grade discharge header, BOHN Biofilter, site walls, Service Entrance Section (SES), building disconnect switchboard and reduced voltage soft starters which enable the site to run more efficiently and reliably.

Organization: City of Phoenix **Contact:** Steve Fernandez, PE **Address, Phone, E-mail:** 200 W Washington St., 8th Fl., Phoenix, AZ 85003; 602.495.0724; steve.fernandez@phoenix.gov **Services Provided:** Stanley Consultants provided design, cost estimating, QA, construction administration, construction inspection, and start-up and commissioning services **Dates of Contract:** Aug 2015 to Jul 2018

Broadway Road Sewer Main Replacements Work for this five-phase, seven-year \$54.9M CMAR delivered sanitary sewer replacement project included: Phase 2D – approximately 9,000 feet of new 24-inch and 30-inch sewer mains and 46 manholes. Final cost of \$8.6 million. Phase 2C Small Streets – slipline rehabilitation of 21" and 24" sewer mains with approximately 14,000 linear feet of new FRP and HDPE pipes ranging in size from 11" to 21". Final cost of \$5.2M. Phase 2C – 11,800 LF of 30", 1,100 LF of 8", 50 LF of 12", and 10 LF of 21" sewer lines. Final cost of \$10.3M. Phase 2B – 6,800 LF of 36" Open Cut and 7,100 LF of 36" Trenchless sewer mains. Final cost of \$18.2M. Phase 2A – 5,200 LF of 42-inch, 6,500 LF of 36-inch, 5,500 LF of 18-inch and 200 LF of 10-inch and smaller sewer mains. Final cost of \$12.5M.

Organization: City of Phoenix **Contact:** Blaine Robinson, PE **Address, Phone, E-mail:** 200 W Washington St., 8th Floor, Phoenix, Arizona 85003; 602-262-4709; blaine.robinson@phoenix.gov **Services Provided:** Stanley Consultants provide constructability review, independent cost estimating, GMP review and negotiation, QA, and construction administration and inspection services **Dates of Contract:** Jul 2008 to Dec 2015



FOUNDATION AND STRUCTURAL DESIGN

I-10 Pinal Airpark Traffic Interchange Underpass Bridge Rehabilitation – ADOT Project Development
On-Call ADOT Bridge Group contracted with Stanley to develop a Project Assessment to evaluate widening options, preservation strategies, steel girder repairs, and final design of bridge deck replacement.

Organization: ADOT Bridge Group **Contact:** Adrian Leon, PE, Project Manager **Address, Phone, E-mail:** 1611 W. Jackson Street, MD EM01, Phoenix AZ. 85007, 602-712-4642, ALeon2@azdot.gov **Services Provided:** Project Assessment and Final Design of bridge rehabilitation **Dates of Contract:** February 2017 – June 2018

North Tank East Rehabilitation, Prescott This 3 MG reinforced concrete potable water storage tank exhibited roof cracking and interior joint deterioration. Stanley performed a visual inspection and developed interior maintenance, roof strengthening and concrete preservation details. Inspection and repairs were accomplished within a winter shutdown.

Organization: City of Prescott **Contact:** George Henderson, Capital Projects Manager **Address, Phone, Email:** 433 N.

Virginia Street, Prescott, AZ 86301, 928-777-1130, george.henderson@prescott-az.gov **Services Provided:** Reinforced concrete structures rehabilitation **Dates of Contract:** Oct 2017-May 2018

US 89A Box Culvert Extensions – ADOT District Minor On-Call Stanley was selected to perform on-site assessment of five (5) existing box culverts to evaluate limits of rehabilitation and final design and details for culvert extensions.

Organization: ADOT Northcentral District **Contact:** George Wallace (Formerly ADOT PM) **Address, Phone, E-mail:** 1661 East Camelback Road, Suite #400, Phoenix, AZ. 85016, 602-333-2449, WallaceGeorge@stanleygroup.com **Services Provided:** Structural Assessment and Final Design of existing culvert extensions. **Dates of Contract:** June 2015 - January 2017



HYDROLOGY & HYDRAULIC PROJECTS

On-Call Stormwater Management, City Center Phase 3 – Storm Water Stanley Consultants lead the effort for the final design of storm drain improvements for City Center Phase 3. Performed hydraulic analyses for two storm drain systems using StormCad to model the inlet hydraulics and roadway pavement drainage. We prepared a Drainage Memorandum to document design criteria and engineering. Coordination meetings were held throughout the project with the City and other consultants on the project team and for comment resolution. Stanley developed 30%, 60%, 95%, and final PS&E.

Organization: City of Avondale **Contact:** Chris Hamilton **Address, Phone, E-mail:** 11465 W. Civic Center Drive, Avondale, AZ 85343, chamilton@avondale.org, 623. 333.4218 **Services Provided:** Prime for Storm Water; provided value engineering: Optimization of storm drain systems including pipes and inlets. **Dates of Contract:** Sep 2012 - Jun 2013

Mohave County Flood Control On-Call Assignments Stanley Consultants provided construction plans for a basin in Mohave Valley, Arizona in the Quail Run Subdivision. The project graded a new basin and integrated it with an existing basin. Stanley designed erosion protection for a large wash crossing Davis Camp that discharges into the Colorado River. The wash was headcutting into the roadway at Davis Camp. Stanley designed channel protection for several sections of a drainage channel for the Valle Vista CC Subdivision parcels. For each of these assignments we conducted field reconnaissance to confirm flow paths, identify contributing watersheds, review topography and assess site conditions. We coordinated with utility companies for information on buried utilities. Each design took into account local conditions and materials available for improvements.

Organization: Mohave County Flood Control District **Contact:** Randall Gremlich, PE **Address, Phone, E-mail:** 3250 E. Kino Avenue, Kingman, AZ 86409, 928.757.0925 randall.gremlich@mohavecounty.us **Services Provided:** Design **Dates of Contract:** Mar 2013 to Aug 2016



STREETLIGHT DESIGN

Streetlight Conversion – Technical Consultant - City of Phoenix Stanley assisted the City of Phoenix in developing the technical specifications for their Request for Proposals to convert more than 90,000 streetlights to LED. The City previously issued an RFP but had to reject all proposals due to challenges with evaluating the proposals. Stanley was retained by the City to help clarify and improve the technical specifications and evaluation process.

Organization: City of Phoenix, Street Transportation Department **Contact:** Charlene Reynolds, Deputy Director **Address, Phone, E-mail:** 200 W. Washington Street, 5th Floor, Phoenix, AZ 85003, 602.262.6450, charlene.reynolds@phoenix.gov **Services Provided:** Technical Expert **Dates of Contract:** Nov 2015 to on-going

Central Avenue, Western to Van Buren Stanley prepared final design plans for one mile of roadway and pedestrian lighting for the reconstruction of this neighborhood collector street as part of a complete streets improvement program.

Organization: City of Avondale **Contact:** Chris Hamilton PE **Address, Phone, E-mail:** 11465 W. Civic Center Dr, Avondale, AZ 85343, 623.333.4218, CHamilton@Avondale.org **Services Provided:** Design **Dates of Contract:** Jun 2015 - Oct 2015

Goodyear Boulevard Phase 1, Estrella Parkway to Yuma Road, City of Goodyear Stanley prepared final design plans for one-half mile of roadway and lighting for the construction of Goodyear Blvd. This project was completed in a three month design period to allow for construction to be completed prior to the opening of a new elementary school.

Organization: City of Goodyear **Contact:** Keith Brown, PE **Address, Phone, E-mail:** 14455 W. Van Buren, Ste D-101, Goodyear, AZ 85338, 623.882.3110, Keith.Brown@goodyearaz.gov **Services Provided:** Streetlight design **Dates of Contract:** Jul 2014 - Aug 2015



TRAFFIC ENGINEERING

Central Ave, Western to Van Buren Stanley prepared and evaluated several alternatives to reduce Central Ave from a 4-lane section to 3-lanes, removing one through lane in each direction. After the study was finalized, Stanley prepared plans, specifications and estimates for Traffic Signal Modifications, Construction Sequencing and Traffic Control Plans, Signing and Pavement Marking Plans, Roadway and Pedestrian Lighting Plans. Stanley provided Post Design Services.

Organization: City of Avondale **Contact:** Chris Hamilton PE **Address, Phone, E-mail:** 11465 W. Civic Center Dr, Avondale, AZ 85343, 623.333.4218, CHamilton@Avondale.org **Services Provided:** Stanley prepared plans, specifications and estimates **Dates of Contract:** Sep 2012 - Oct 2015

Goodyear Blvd Phase 1, Estrella Pkwy to Yuma Rd Stanley prepared preliminary analysis and final design plans for one-half mile of ITS and lighting Infrastructure for the construction of Goodyear Blvd. Traffic signal work for this project included a temporary span wire traffic signal and two new traffic signals.

Organization: City of Goodyear **Contact:** Keith Brown, PE **Address, Phone, E-mail:** 14455 W. Van Buren, Ste D-101, Goodyear, AZ 85338, 623.882.3110, Keith.Brown@goodyearaz.gov **Services Provided:** Traffic Engineering Design **Dates of Contract:** Jul 2014- Aug 2015

59th Ave Signal Progression Study, Union Hills Dr to Deer Valley Rd; City of Glendale Stanley conducted traffic counts and prepared signal timing plans for 8 signals in this 2 mile segment of 59th Ave, including the SR101L traffic interchange. Stanley also prepared calculations for clearance intervals for pedestrian, yellow, and all-red intervals.

Organization: City of Glendale **Contact:** Allan Galicia **Address, Phone, E-mail:** 6210 W. Myrtle Ave, Ste 112, Glendale, AZ 85301, 623.930.2940, AGalacia@GlendaleAz.gov **Services Provided:** Traffic Engineering Design **Dates of Contract:** Jan 2014 - May 2015



TRANSPORTATION ENGINEERING

I-40 / Country Club Drive Flagstaff Urban Trail System (FUTS) Trail Stanley completed the study and final design for the Country Club Drive FUTS project under an ADOT Statewide On-Call contract. The project connected an existing trail on the north side of I-40 to one approximately 1300' south of I-40. It included new ADA-compliant ramps, a raised median island with landscaping, storm drain improvements, signal and lighting relocation, fencing, and upgrading/retrofitting pedestrian fencing on the existing 450' bridge over I-40.

Organization: ADOT **Contact:** Greg Johnson, ADOT PM **Address, Phone, E-mail:** 205 South 17th Ave, MD 614E, Phoenix, AZ 85007, (602) 712-7774, gjohnson@azdot.gov **Services Provided:** Project Assessment, Plans, Specifications, Estimating, Clearances, and management of geotechnical, environmental, and landscape subconsultants **Dates of Contract:** Study: Sep 2013 - Design: Mar 2014 / Const: May 2015 – Dec 2015

107th Avenue, Camelback to Indian School Road, Roadway and Pedestrian Enhancement This project includes Federal and MAG funding and is being coordinated and reviewed by ADOT, MCDOT and FCDMC. Improvements include paving, storm drain, lighting, and landscaping. Project includes utility coordination, legal descriptions for new rights-of-way, and coordination with Roosevelt Irrigation District and SRP.

Organization: City of Phoenix **Contact:** Tony Humphrey, PE **Address, Phone, E-mail:** 1034 E. Madison, Phoenix, AZ 85034, 602.495.2050, Tony.humphrey@phoenix.gov **Services Provided:** Design **Dates of Contract:** Jun 2015 to on-going

Riverview Drive, 18th Place to 22nd Street Project is a bridge over an ADOT Outfall Channel. It connects segments of Riverview Drive. The original concept was a bridge with at least two feet of freeboard. Stanley evaluated alternative alignments, bridge structures, and drainage concepts, and then developed an alternative that saved the City approximately \$850K.

Organization: City of Phoenix **Contact:** Rost Sapon **Address, Phone, E-mail:** 1034 E. Madison, Phoenix, AZ 85034, 602.262.4054, rost.sapon@phoenix.gov **Services Provided:** Design **Dates of Contract:** Jun 2015 to on-going



WASTEWATER SYSTEMS

West Anthem Wastewater Infrastructure Improvements Stanley's scope of services included design of 9,500 linear feet of 18 inch and 21-inch gravity sewer, a 4.3 MGD sewage lift station (0.5 MGD initial capacity), 5,500 linear feet of triple barrel (one 6-inch and two 14-inch diameter) force main and trenchless crossings of I-17 and the Carefree Highway.

Organization: City of Phoenix **Contact:** Stacey Kisling, PE **Address, Phone, E-mail:** 200 W Washington St., 8th Fl., Phoenix, AZ 85003; 602.534.6845; stacey.kisling@phoenix.gov **Services Provided:** Stanley Consultants provided design, cost estimating, QA/QC, and will provide construction administration, construction inspection, and start-up and commissioning services during construction **Dates of Contract:** Jul 2016 to Jan 2020 (est.)

Lift Station 42 Improvements Stanley's design incorporated a new 10-foot diameter pre-cast concrete wet well, pumps, above grade discharge header, BOHN Biofilter, site walls, Service Entrance Section (SES), building disconnect switchboard and reduced voltage soft starters which enable the site to run more efficiently and reliably.

Organization: City of Phoenix **Contact:** Steve Fernandez, PE **Address, Phone, E-mail:** 200 W Washington St., 8th Fl., Phoenix, AZ 85003; 602.495.0724; steve.fernandez@phoenix.gov **Services Provided:** Stanley Consultants provided design, cost estimating, QA/QC, construction administration, construction inspection, and start-up and commissioning services **Dates of Contract:** Aug 2015 to Jul 2018

Lift Station 43 Improvements Stanley's design incorporated three new 85HP pumps with new above-ground discharge piping, valving, and instrumentation. The two existing variable frequency drives were replaced with three reduced voltage soft starters to increase system efficiency. The existing odor control scrubber was replaced with a new biofilter odor control system. The existing service entrance section was also replaced.

Organization: City of Phoenix **Contact:** Anita Pritchard, PE **Address, Phone, E-mail:** 200 W Washington St., 8th Fl., Phoenix, AZ 85003; 602.534.9205; anita.pritchard@phoenix.gov **Services Provided:** Stanley Consultants provided design, cost estimating, QA/QC, and will provide construction administration, construction

inspection, and start-up and commissioning services during construction **Dates of Contract:** Mar 2017 to Jul 2019 (est.)



WATER DISTRIBUTION AND TREATMENT SYSTEM

Zone 19 Reservoir, Piping and Pump Station Replacement

To provide more reliable fire flow storage and to meet the increased head and flow requirements for the City of Prescott, AZ a new storage reservoir, distribution line, and pump station were required. Stanley as a Subconsultant to Shephard Wesnitzer, Inc., designed the booster pump station. Booster pump station features included: four (4) 400 gpm, 50 HP vertical centrifugal pumps (1200 gpm firm capacity); two 530 gallon bladder type surge control Tanks provide surge control on the suction and discharge: a 250 KW, 480 volt, 3 phase, 4 wire, NEMA 3R standby generator with sound enclosure; provided instrumentation and controls for the pump station and communication between the reservoir and pump station; Cathodic protection was provide at the pump station site. Additional project features included: Decommissioning of two small pump stations; Design of a 1 MG bolted steel water storage reservoir; Removal/salvage of three smaller steel storage tanks; Design of a 12-inch diameter waterline; and site grading and drainage.

Organization: City of Prescott **Contact:** Ben Mohktari, PE **Address, Phone, E-mail:** 433 N. Virginia Street Prescott, AZ 86301; 928-777-1130; ben.mokhtari@prescott-az.gov **Services Provided:** Stanley Consultants provided design, post design, QA, estimates, shop drawing review and inspection services. **Dates of Contract:** Feb 2011 to Feb 2014

Loop 303 Well The well was designed to provide 1,000 gpm based on the hydrological safe yield of the aquifer. It provides water to the northern portion of the City by pumping directly into the distribution system. Our design included a vertical turbine lineshaft type well pump having a total dynamic head of over 400 feet and a 150 HP premium electric motor. Stanley Consultants provided design and CA&I services. Project features include 16-inch diameter DIP waterline, chlorination system and building, well pump equipment with pump motor sound enclosure, hydraulic analysis, electrical/I&C System with a standby generator, and Approximately 600 LF of 16-inch diameter DIP waterline.

Organization: City of Peoria **Contact:** Daniel Kiel, PE **Address, Phone, E-mail:** 8401 W. Monroe St., Peoria, AZ 85345; 623-773-7212; Daniel.Kiel@peoriaaz.gov **Services Provided:** Stanley Consultants provided design, post design, QA, estimates, shop drawing review and inspection services. **Dates of Contract:** Mar 2015 to Mar 2018

Agua Fria Well 100.3 Equipping Stanley Consultants provided engineering analysis, design services, and post design construction services for site work and grading, onsite piping, 1,750 linear feet of new 12-inch water main4 to Agua Fria Water Plant 100, submersible turbine pump, electrical and instrumentation design, for this 1,600 gpm well.

Organization: EPCOR Water **Contact:** Andrew Brown, PE **Address, Phone, E-mail:** 2355 W. Pinnacle Peak Road, Suite 300 Phoenix, AZ 85027; 623-445-2497; ADBrown@epcor.com **Services Provided:** Stanley Consultants provided design, post design, QA, estimates, shop drawing review and inspection services. **Dates of Contract:** Jan 2013 to Apr 2014

B2B. THREE ORGANIZATIONS FOR WHICH STANLEY CONSULTANTS PROVIDED SIMILAR PROJECTS

Organization: City of El Mirage **Contact:** Jorge Gastelum, P.E. **Address:** 12145 N.W. Grand Ave, El Mirage, Az. **Phone:** 623.876.2976 **Email:** jgastelum@cityofelmirage.org **Services Provided:** Engineering On-call **Dates of Contract:** Mar 2011 – Jul 2013

Stanley provided on-call engineering services to the City of El Mirage for various CIP projects. One task was to design the paving of five-miles of alleys. This project was federally funded through CMAQ. Other projects have included street improvements, drainage reports, and design of water and sewer systems.

Organization: MCDOT **Contact:** Eric Mayer **Address:** 2901 West Durango Street, Phoenix, AZ **Phone:** 602.506.8367 **Email:** ericmayer@mail.maricopa.gov **Services Provided:** Transportation On-call **Dates of Contract:** Oct 2009 – Oct 2012

Stanley, as a prime consultant, provided on-call engineering services to MCDOT for various roadway and drainage projects. Tasks included roadway design of PM10 roads to scour analysis for Tuthill Bridge. For one Task, Stanley prepared a Design Concept Report and 30% plans for full roadway, drainage, lighting, and signalization for Dysart Road from Indian School Road to Glendale Avenue. The project included performing a traffic analysis study to develop intersection configurations for four major intersections.

Organization: City of Phoenix **Contact:** Rick Shane **Address:** 200 W. Washington St., Phoenix, AZ **Phone:** 602.495.7685 **Email:** rick.shane@phoenix.gov **Services Provided:** Construction Management/Inspection **Dates of Contract:** NTP Aug 2013 – AOC Mar 2014

This \$2.1M Design-Bid-Build project constructed over one-mile of 24" DIP for the City. Stanley provided value engineering and design modifications to complete this project under budget at \$1.9M.

Stanley, as a prime consultant, provided the City with planning and engineering services on other on-call projects including: El Camino Drainage Design, North 16th Street Drainage Study/Design, West Mountain View Drainage Design, El Camino Drainage Study, Hope VI Matthew Hensen Redevelopment Plan, Superblock 1 – 36" and 42" Transmission Main Project, Superblock 11 – 42" Transmission Main Project and Superblock 2 – 36" Sewer Line Project.

C. KEY POSITIONS

C.1 PERSONNEL RESOURCES

Our project team brings extensive experience to assist the City with your CIP projects. Our personnel and their type are listed in the matrices at the end of this section. They have a proven track record providing on-call services in a timely and efficient manner. Our team members are continually trained so that they meet the technical qualifications of their specialty. This includes compliance with professional registration laws within the State of Arizona. Bios for key members are listed and two page resumes for these and additional members are provided in Appendix C.



CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES

Jay Horak, PE, AZ #42745, Construction Manager Jay has 26 years of experience in resident engineering and construction administration and inspection (CA&I) services with a proven ability to manage major water and wastewater projects. His experience includes program management / construction management, "third-party" CA&I on design-build, design-bid-build and CMAR delivered projects. He has provided these services on water and sewer transmission mains, wastewater lift stations, booster pumping stations, potable water wells and water & wastewater treatment facilities throughout Arizona. His construction administration and inspection experience is invaluable during design by providing constructability and QC reviews.



FOUNDATION AND STRUCTURAL DESIGN

Brian Davis, PE, SE, AZ #23409 & 24468, Principal Structural Engineer Brian has more than 30 years of structural engineering experience. His background includes existing structure inspection and assessment, rehabilitation and retrofit design, structure design concept and selection reports, the design of steel, reinforced masonry, reinforced concrete, prestressed concrete, and post-tensioned concrete structures, preparing final construction contract document plans and specifications and construction support services.



HYDROLOGY / HYDRAULIC PROJECTS

Chris D'Arcangelis, PE, AZ #26313, Project Manager Chris has over 30 years of specialized experience in surface water hydrology, hydraulic analysis, design of channels, detention / retention basins, box culverts, storm drains, hydraulic structures, and erosion control on flood control, transportation and infrastructure projects. Chris has particularly strong skills in hydraulic analysis, computer modeling and design, and preparation of final plans, specifications, and estimates.



STREETLIGHT DESIGN

Barbara Schwab, PE, AZ #19243, Technical Lead Barbara is a Principal Traffic Engineer and is Stanley's roadway and pedestrian lighting expert and a member of the

Illuminating Engineering Society (IES). She is an expert in LED lighting and assisted ADOT in developing their LED standards. She assisted Phoenix with their RFP for LED Streetlight Conversion.



TRAFFIC ENGINEERING

Marta Gerber, PE, AZ #41369 Traffic Department Manager, Principal Transportation Engineer Marta has 20 years of experience. She has successfully served as project manager and/or principal for dozens of projects, from modeling and analysis phase to final designs. In addition, she successfully led projects that utilized local, state or federal funding from the pre-design phase through final documents for all project improvements. She routinely coordinates with city, county, state, and federal agencies; and has both attended and made presentations at public hearings, planning and zoning meetings, and city council meetings.



TRANSPORTATION ENGINEERING

Gary Melita, PE, AZ #30516, Senior Project Manager Gary has 24 years of experience in municipal roadways rural highways, and urban freeways. His project responsibilities include geometrics, earthwork, drainage, utilities relocation, traffic control, quantities computations, cost estimating, preparation of final contract documents, and resident engineering services. He is skilled in the application of InRoads, GeoPak, and CADD in the design of major arterials and highway projects.



WASTEWATER SYSTEMS

Larry Leischner, PE, AZ #24001, Sr. Environmental Engineer Larry has 31 years of experience in project management, study, design, cost estimating, and post design services for wastewater collection and pumping facilities. Larry has specialized experience in designing wastewater pumping facilities, including hydraulic analysis, pump sizing and selection, piping, equipment selection and layout, instrumentation and control, and operation and maintenance manuals. He has designed 30 sewage lift stations, including four self-cleaning style stations ranging in capacity from 0.7 MGD to 30.0 MGD. His designs include both wet pit and dry pit installations. Larry has also designed seven biofilters.



WATER DISTRIBUTION AND TREATMENT SYSTEM

Nathan Nutter, PE, AZ #44720 CE and #52220 ME, Sr. Water Resources Engineer Nathan has over 15 years of experience in project management and design, including multi-disciplined engineering team oversight and quality control. He will develop project plans, scopes, budgets, and schedules. He will coordinate the design progress with all disciplines and subconsultants, and prepare deliverables to meet scheduled goals and milestones. Nathan has successfully delivered numerous infrastructure projects throughout Arizona. Most importantly, he has helped develop the design foundation for the City of Phoenix's

ASR Well Program. As a well expert, Nathan brings knowledge of the latest technology for ASR wells, standard production wells, injection wells, and vadose zone wells. He is familiar with the City's design and construction standards, and has excellent working relationships with your staff in all departments.

C.2 MATRIX LISTING CATEGORIES WITHIN THE DISCIPLINE / PARTICIPATING STAFF / KEY PERSONNEL

Below are the lists of participating staff and key personnel displaying their qualified services and experience in the tabulated categories:

- » Construction Management
- » Foundation & Structural Design
- » Hydrology/Hydraulic Projects
- » Streetlight Design
- » Traffic Engineering
- » Transportation Engineering
- » Wastewater Systems

 CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES Staffing: Local - 4 National - 125	Yrs Experience	Yrs w/Stanley	Education	CM@Risk	Design-Build	Estimating	Bid Documents	QA/QC Services	Shop Drawings	Post Design	I&C	Electrical/ATMS	Field Office Manager
Jay Horak, PE, W/WW Construction Manager	28	14	MSCE	❖	❖	❖	❖	❖	❖	❖			❖
Colby Northern, Inspector	24	13	Cert.	❖	❖	❖	❖	❖	❖	❖		❖	❖
Devron Suchor, Inspector	23	12	BSCM	❖	❖	❖	❖	❖	❖	❖			❖
Tony Leibold, Electrical / I&C Inspector	21	11	Cert.	❖	❖	❖	❖	❖	❖	❖	❖	❖	

 FOUNDATION AND STRUCTURAL DESIGN Staffing: Local - 6 National - 57	Yrs Experience	Yrs w/Stanley	Education	Retaining Walls	Small Buildings	Vehicular Bridges	Pedestrian Bridges	Foundations	Reinforced Concrete	Prestressed Concrete	Steel Structures	Hydraulic Structures	Water Supply Structures	Wastewater Structures	Structural Inspections	Repair / Rehabilitation
Brian Davis, PE, SE, Principal Structural Engineer	37	20	BSCE	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖
John Lange, PE, Senior Structural Engineer	18	17	BSCE	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖
David Joder, PE, Senior Structural Engineer	26	13	BSCE	❖	❖	❖	❖	❖	❖	❖		❖	❖	❖	❖	❖
Berman Tijerino, PE, Structural Engineer	4	4	MSCE	❖		❖		❖	❖	❖	❖	❖	❖	❖		
Nick Dorsey, Senior Structural Designer	22	18	--	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖		❖
Amy Dahlberg, EIT, Structural Designer	4	4	BA	❖		❖	❖	❖	❖	❖					❖	
Dan Shiosaka, PE, SE, Associate Chief Struct. Eng.	40	25	MSCE	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖

HYDROLOGY / HYDRAULICS Staffing: Local - 4 National - 34	Yrs Experience	Yrs w/Stanley	Education	Master plans	Hydrology	Storm Drains	Inlets Structures	Open Channels	Detention Basins	Retention Basins
Chris D'Arcangelis, PE, Sr Water Resources	31	16	BSCE	❖	❖	❖	❖	❖	❖	❖
Scott Buchanan, PE, CFM, Chief Water Resources Engineer	41	27	BS	❖	❖	❖	❖	❖	❖	❖
Joel McCarty, PE, CFM, Sr Water Resources Engineer	21	11	BSCE	❖	❖	❖	❖	❖	❖	❖
Scott Rasmussen, PE, Sr Water Resources Engineer	24	18	BSCE	❖	❖	❖	❖	❖	❖	❖

STREETLIGHT DESIGN Staffing: Local - National -	Yrs Experience	Yrs w/Stanley	Education	Lighting Design	Power Distribution	Communications	Emergency Power	Photometric Analysis	Voltage Calculations	Decorative Poles & Fixtures	Pedestrian Lighting Design	Lighting Studies & Reviews	Streetlight Inspection	Street Lighting Analysis and Design
Barbara Schwab, PE, Principal Traffic Engineer	36	23	BSCE	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖
BriAnne Turpin, PE, Senior Transportation Engineer	12	*	BSCE	❖	❖			❖	❖		❖			❖
Hannah Housenga, EIT, Traffic Designer	4	4	BSCE	❖				❖	❖			❖	❖	❖
Erick Berry, EIT, Traffic Designer	2	2	BSCE	❖				❖	❖					❖

TRAFFIC ENGINEERING Staffing: Local - National -	Yrs Experience	Yrs w/Stanley	Education	Speed, Volume, Class Studies	Signal Warrant Studies	Capacity and Operational Studies	Pedestrian / Bike Studies	Safe Route to School Studies	School Crossing Studies	Traffic Signal Design	Pavement Marking and Signing	Safety / Crash Analysis	Design Safety Improvements	Roundabouts Analysis	Roundabout Design	Traffic Operations Center Design	ITS (CCTV, DMS) Device Design	Fiber Optic Cable and Splicing	Fiber Conduit and Box Design	Wireless ATMS Design	Signal Timing With Railroad Preemption	Traffic Calming	Road Diets
Marta Gerber, PE, Principal Traffic Eng, Traffic Department Manager	20	*	BSCE	❖	❖	❖	❖		❖	❖	❖	❖	❖				❖	❖	❖	❖	❖	❖	❖
Barbara Schwab PE, Principal Trans Eng	36	23	BSCE	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖		❖	❖	❖	❖	❖			
Steve Bolduc, PE, Principal Trans Eng	44	31	BSCE	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖		❖		❖	❖			
Natalie Carrick, PE, Senior Trans Eng	15	*	BSCE	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖			❖	❖	❖	❖		❖	❖
BriAnne Turpin, PE, Senior Trans Eng	12	*	BSCE	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖	❖		❖	❖				❖	❖	❖
Don Tappendorf, PE, Principal Trans Eng/ITS	35	*	MSCE BSCE	❖	❖	❖				❖	❖	❖	❖			❖	❖	❖	❖	❖			
Hannah Housenga, EIT, Traffic Designer	4	4	BSCE		❖	❖				❖	❖	❖		❖			❖		❖				
Erick Berry, EIT, Traffic Designer	2	2	BSCE		❖	❖	❖			❖	❖	❖		❖					❖				

* First Year with Stanley

TRANSPORTATION ENGINEERING Staffing: Local - National -	Yrs Experience	Yrs w/Stanley	Education	Roadway Improvements	Transportation Planning	Traffic Calming Proj	Intersection Design	Roundabouts	Sidewalks
Gary Melita, PE, Principal Transportation Engineer	28	24	BSCE MSCE	❖	❖	❖	❖	❖	❖
Jackie Noblitt, PE, Principal Transportation Engineer	35	22	BSCE	❖	❖		❖	❖	❖
Michael Lopez, PE, Principal Transportation Engineer	34	14	BSCE MBA	❖		❖	❖	❖	❖
Brian Riley, PE, Principal Transportation Engineer	18	17	BSCE	❖		❖	❖	❖	❖
Isaac McCullough, PE, Senior Civil Engineer	18	10	BSCE	❖			❖		❖
Ted Smithwick, PE, Senior Transportation Engineer	10	3	BSCE MBA	❖			❖	❖	❖
Matt Dasen, PE, Senior Transportation Engineer	11	4	BSCE	❖			❖	❖	❖

WASTEWATER SYSTEMS Staffing: Local - National -	Yrs Experience	Yrs w/Stanley	Education	Collection Studies	Gravity System Design	Force Main Design	Sewage Lift Station	Sewer Assessment	Sewer Rehabilitation	Reuse	Recharge Design	Reuse Storage	Reuse Pump Station	Treatment Components	Treatment Process	Chemical Treatment
Fred Rouse, PE, Principal Environmental Engineer	44	23	BSCE	❖	❖	❖	❖		❖	❖	❖	❖	❖	❖	❖	❖
Nathan Nutter, PE, Senior Water Resources Engineer	17	*	BSME	❖	❖	❖	❖	❖		❖	❖	❖	❖	❖	❖	❖
Larry Leischner, PE, Senior Environmental Engineer	33	16	BSCE	❖	❖	❖	❖	❖		❖		❖	❖			❖
Jay Horak, PE, Construction Services / W/WW Manager	28	14	BSCE MSCE		❖	❖	❖	❖	❖			❖	❖			
Tony Leibold, Electrical/I&C Design/Inspector	21	11	N/A				❖						❖	❖	❖	❖
Riley McConnel, EIT (Environmental)	*	*	BSCE	❖		❖	❖									
Micheal Laukenmann, EIT	3	3	BSCE		❖	❖	❖		❖							

WATER DISTRIBUTION AND TREATMENT SYSTEM Staffing: Local - National -	Yrs Experience	Yrs w/Stanley	Education	Feasibility Studies	Electrical	Electrical Design	Well Treatment	Well Studies	Power Studies	Distribution	Pump Station	Water Storage	Treatment Design	Process
Nathan Nutter, PE, Senior Water Resources Engineer	17	*	BSME	❖			❖	❖		❖	❖	❖	❖	❖
Larry Leischner, PE, Senior Environmental Engineer	33	16	BSCE	❖			❖	❖		❖	❖	❖		
Fred Rouse, PE, Principal Environmental Engineer	44	23	BSCE	❖			❖	❖		❖	❖	❖	❖	❖
Jay Horak, PE, Construction Services / W/WW Manager	28	14	BSCE MSCE				❖			❖	❖	❖	❖	❖
Lane Ingram, PE, Principal Electrical Engineer	24	20	BSEE		❖	❖			❖		❖			
Michael Laukenmann, EIT	3	3	BSCE				❖	❖		❖	❖	❖		
Riley McConnel, EIT (Environmental)	*	*	BSCE				❖	❖						

* First year with Stanley

C.3 RESUMES

Resumes for Team Members are located in the Appendix.

D. PROJECT APPROACH

D.1 PHILOSOPHY AND APPROACH

Philosophy

To successfully perform the required Services for your projects under the FY 2018/2019 Professional Consultants Selection List, we will apply our proven Management Philosophy used on all of your past On-call Engineering Support Services projects. This philosophy is simple – “A winning TEAM focuses on maintaining communication, responsiveness, and coordination.”

COMMUNICATION: Open and frequent communication is a focal point of all successful assignments. We welcome and encourage daily contact between the TEAM, Contractors, Stakeholders, and the City of Avondale in order to foster trust and cooperation. We will chair regularly scheduled progress meetings. All communication will flow through us. This flow ensures proper distribution, content, and responses. It provides efficient flow of information among all the stakeholders.

The system outlined in our Resident Project Representative Manual (RPRM) addresses control elements for time and cost, a comprehensive account of project activities, contract variances, periodic reports (daily, weekly, monthly) drawing and submittal schedules, coordinating progress meetings, photographs, and financial status. We have used this protocol on all our past projects with Avondale and are using it now on current projects.

RESPONSIVENESS: Rapid response is a key component of our past success and is paramount to the success of your On-call projects. Our experience has shown that Contractors are more team-oriented and cooperative when given proper and clear information in a timely fashion. Disputes, change orders, and claims can be virtually eliminated when a quick exchange of information is provided. Shared appreciation for responsiveness by the TEAM, Contractor, and Avondale will provide the On-call projects with higher quality work and shorter project durations.

COORDINATION: We will work with the City of Avondale's PM, contractor, and operations staff and stakeholders to plan and coordinate every aspect of each On-call project. Smooth, on-time project completion begins at the start of each project. As part of this coordination, Stanley will prepare the Project Management Plan (PMP) for the TEAM. This plan includes the schedule, cost, and operational requirements for the project. The plan identifies milestone dates, utility issues, agency approvals, TCE requirements, MOPO requirements, and other projects that may need special coordination.

Approach

Our approach begins by providing the City of Avondale with an

experienced TEAM that will apply our Management Philosophy. Stanley will rely heavily on this TEAM to accomplish your work, meet your schedule requirements, fulfill project needs, and exceed the City's goals.

In general, for the FY 2018/2019 Professional Consultants Selection List projects, we recognize the following key activities to be performed by our TEAM ensuring we deliver quality On-call projects within budget and on time.

- » Schedule and Cost Control
- » Time Management
- » Cost Management
- » Quality Control

Schedule and Cost Control: To ensure the City of Avondale's On-call projects are completed on time and within budget, Stanley has included professional estimators and schedulers on our TEAM. Project Controls, which include both Time and Cost Management, are two of their core competencies. Stanley has provided these types of services on our previous projects.

Our Project Managers will develop a detailed project scope of services, schedule, and assign manpower resources to meet the schedule within 10 working days of the project kick-off / site visit. The schedule will contain predetermined activity codes and will be compatible with City Guidelines and Standards.

Each scope / schedule will be customized to reflect specific project tasks, durations, critical path activities and milestones to communicate the exact needs and requirements of the project. They will proactively monitor project schedules and costs and provide electronic and “hard copy” updates to the City on a monthly basis or as requested. Schedule updates will include a summary of milestones and an explanation or narrative of corrective measures as necessary to keep the schedule on time.

With a Phoenix staff of 70, we have the depth and breadth of staff and production capabilities to respond quickly and complete projects on schedule. The City won't have to be concerned about our resources not meeting their needs.

Time Management: Stanley will work together with the City of Avondale to perform the following tasks:

- » Prepare a Master Schedule showing both design and construction and adjust, as directed.
- » Review/Comment on the Contractor's Construction Schedules and adjust the Master Schedule, as directed.
- » Prepare and Submit Monthly Design and Construction Schedule Progress Reports.
- » Review and Make Recommendations regarding Time Extension Requests.
- » Request, Review, and Make Recommendations regarding Contractor Recovery Schedules.

Should a disputed change order or claim arise that requires expert analysis, Stanley will assist in the analysis and preparation of expert reports on delay and disruption claims and associated damages. We will assist the City of Avondale in resolution of any delay-related issues, should it be required.

Cost Management: Similar to Time Management, our TEAM will perform the following tasks to contain costs:

- » Establish and manage internal budgets including Subconsultant costs.
- » Review Contractors "Schedule of Value" and verify that it addresses the Contractor's Construction Schedule.
- » Establish and Implement an effective Change Order Control System to meet COP requirements.
- » Provide Change Order Pricing and Verification.
- » Review Contractor Payment Applications, Prepare Progress Payment Reports, and Certificates of Payment.

Our internal Financial Management System (FMS) will be used for project accounting. FMS provides our Project Managers with timely reports to identify schedule/budget "red flags" so we can quickly make appropriate adjustments.

Should a disputed change order or claim arise that requires expert analysis, Stanley will assist in the analysis and preparation of expert reports on disputed change orders, cost overruns and pricing of claim damages. We will assist the City of Avondale in resolution of any disputed changes or damages analysis, should it be required.

Quality Control: Project-oriented Quality Control (QC) plans will be prepared by our Project Managers to follow our corporate QA/QC Manual and procedures. Engineering and graphics both undergo a standard process of preparation and checking to minimize the likelihood of significant errors. Our quality program includes a number of checks and a formalized procedure for performing repetitive tasks.

Stanley will also assign a Quality Control Manager to each On-call project, who will lead QC, constructability, and design reviews PRIOR to all submittals. These reviews will contribute to cost savings and high quality construction documents. Stanley is well-known by our clients for the quality of construction documents we produce.

PROBLEM RESOLUTION

Our approach to problem resolution involves the entire TEAM. Our TEAM will proactively brainstorm the issue(s) facing a particular project, develop coherent logical solutions, and keep the City involved and informed in this process through direct and frequent communications.

Our proactive brainstorming, identifies potential project bottlenecks and resolve them early, before they become problems. Our Project Managers will put into place the procedures, controls, and communications necessary to manage schedule, budget, and

quality control. This approach will allow us to resolve issues before they become challenges, and will minimize the impact on your project schedules.

We will also use our established relationships with stakeholders to coordinate activities and resolve issues before they become problems. We will build on previous relationships developed with more than 30 years of services to Arizona clients. Our excellent record of working successfully with all project partners and stakeholders will make sure that interagency issues are resolved quickly. Our relationships with stakeholders will help protect your schedule and cost.

D.2 FAMILIARITY AND CAPABILITY OF COMPLIANCE

Stanley currently has an On-Call contract with the City of Avondale. We have met, and will continue to comply with, the City's insurance requirements. Stanley has executed Professional Services Agreements with the City. We are familiar with the City's contract language and are prepared to negotiate task orders and contract language.

**CITY OF AVONDALE
ENGINEERING DEPARTMENT
EN18-111**

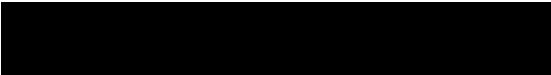
SECTION A**PART IV. DISCIPLINE SPECIALTY CHECKLIST**Name of Firm: Stanley ConsultantsAddress: 1661 East Camelback Road, Suite 400City: Phoenix State: Arizona Zip Code: 85016Contact Name: Steven A. Jimenez, PETitle: Project PrincipalTelephone: (602) 333-2200 Facsimile: (602) 333-2333

Please check only those discipline categories for which you are particularly qualified, fully addresses, and desired to be considered.

☐ Architecture	
☐ Building and Fire Plan Review and Inspection Services	☐ Improvement District Administration
☐ CADD Services	☐ Landscape Architect
☒ Construction Management & Inspection	☐ Planning
☐ Economic & Fiscal Impact Analysis	☐ Property Appraisal Services
☐ Electrical Design and SCADA	☒ Streetlight Design
☐ Engineering Plan Review	☐ Subsurface Utility Investigation
☒ Foundation & Structural Design	☐ Surveying
☐ Geotechnical & Environmental	☒ Traffic Engineering
☐ GIS Programs	☒ Transportation Engineering
☐ Hydrogeological Engineering	☒ Wastewater Systems
☒ Hydrology/Hydraulic Projects	☒ Water Distribution and Treatment System

SECTION A**CITY OF AVONDALE
ENGINEERING DEPARTMENT
EN18-111****PART V. VENDOR INFORMATION FORM**

By submitting a Statement of Qualifications, the submitting Vendor certifies that it has reviewed the administrative information and draft of the Professional Services Agreement's terms and conditions and, if awarded the Agreement, agrees to be bound thereto.

<u>Stanley Consultants</u>		<u>42-1320758</u>
VENDOR SUBMITTING SOQ		FEDERAL TAX ID NUMBER
<u>Steve Jimenez, PE; Project Principal</u>		
PRINTED NAME AND TITLE		AUTHORIZED SIGNATURE
<u>1661 E. Camelback Road, Ste 40</u>		<u>(602) 333-2200</u> <u>(602) 333-2200</u>
ADDRESS		TELEPHONE FAX #
<u>Phoenix</u>	<u>Arizona</u>	<u>85016</u>
CITY	STATE	ZIP
<u>www.stanleyconsultants.com</u>		<u>June 27, 2018</u>
WEB SITE:		DATE
		E-MAIL ADDRESS: <u>marketing-phoenix@stanleygroup.com</u>

SMALL, MINORITY, DISADVANTAGED AND WOMEN-OWNED BUSINESS ENTERPRISES (check appropriate item(s):

- ☐ Small Business Enterprise (SBE)
☐ Minority Business Enterprise (MBE)
☐ Disadvantaged Business Enterprise (DBE)
☐ Women-Owned Business Enterprise (WBE)

Has the Vendor been certified by any jurisdiction in Arizona as a minority or woman-owned business enterprise?

If yes, please provide details and documentation of the certification.



JAY HORAK, P.E.

W/WW Design and Construction Services Department Manager
Stanley Consultants

28 Years of Experience 14 Years with Stanley Consultants

Education

Master of Engineering, Civil
Engineering, Texas A&M University

Bachelor of Science, Chemistry,
Nebraska Wesleyan University

Bachelor of Science, Civil
Engineering, Washington University

Bachelor of Science, Engineering
and Public Policy, Washington
University

Professional Licenses / Registrations

Civil Engineering: AZ #42745
ID #12540
NV (Pending)

NASSCO (PACP/MACP/LACP)
#U-916-07005388

Professional Societies

- » Construction Management
Association of America
(CMAA)
- » Arizona Water Association (AZ
Water)

Project/Construction Management (PM/CM): Jay has Extensive experience in construction management, project management, construction administration and inspection (CA&I) and “third-party” CA&I services of water and sewer lines, reservoirs, pump and lift stations, potable water wells, and water and wastewater plants throughout Arizona and has served as PM/CM on over \$200 million worth of wet utility projects in Arizona. His PM/CM experience enabled him to develop the following attributes necessary to successfully manage projects:

- Ability to monitor/guide design and construction schedules
- Ability to develop relationship with Municipalities, Contractors and Utility Companies
- Ability to work cooperatively and professionally to resolve issues
- Ability to keep all parties involved and communicating
- Ability to manage projects, lead personnel and work effectively with all project stakeholders.

PROJECT EXPERIENCE

Val Vista Transmission Main Rehabilitation; City of Phoenix, Phoenix, AZ (10/2017 – 12/2020 est.): Construction Services Manager overseeing the full-time construction administration and inspection services for this four-phase \$47.84 million (est.) slip-lining project. Phase 1 (2017): Construct three access pits; dewater existing line; slip lining approximately 2,950 linear feet of 96-inch I.D. PCCP main; inject grout into the annular space; backfill access pits; clean and disinfect pipe; restore access pit sites to original or better condition at a cost of \$6.8 million; Phase 2 (2018): Construct three access pits; dewater existing line slip-lining approximately 4,400 linear feet of 90-inch I.D. PCCP main; inject grout in the annular space and apply cement mortar lining; backfill access pits; clean and disinfect pipe; restore access pit sites to original or better condition at a cost of \$13.5 million.

Reservoir #7 and Booster Pump Station Replacement; Town of Gilbert, Gilbert, AZ: Construction Services Manager overseeing the full-time third-party construction administration and inspection services for this \$5.1 million Design-Bid-Build delivered project. The work included the demolition and removal of the existing above grade steel Reservoir No. 7 and all associated pumps, equipment and piping and constructing a new 2 mg cast-in-place circular concrete reservoir and a 3,000 gpm booster pump station. Also included in the project was the installation of new yard and underground piping, reservoir underdrain system, chlorination system, perimeter CMU site wall and access gate, sound attenuation enclosure, electrical service, electrical equipment, control systems, and remote terminal unit communicating with the existing SCADA system.

Lift Station 42 Improvements, City of Phoenix, Phoenix, AZ: Construction Services Manager overseeing the construction administration and inspection services for this \$1.65M JOC delivered project. Work included installation of a 10-foot diameter pre-cast concrete wet well, 250 hp Flygt submersible pumps, above grade discharge header, BOHN Biofilter, site walls, Service Entrance Section, building disconnect switchboard and reduced voltage soft starters which enable the site to run more efficiently and reliably.

JAY HORAK, PE

Heritage District Water Lines (WA125); Town of Gilbert, Gilbert, AZ (8/2017 – 10/2018 est.): Construction Services Manager overseeing the full-time project management and construction administration and inspection services for this \$7.84 million waterline replacement project. Stanley's PM/CM Services consist of design oversight of the Design Engineer of Record and construction oversight of the CM@R selected for this project. The Project is generally described as the installation of two 12" waterlines which parallel Gilbert Road through the Heritage District from Elliot Road north to Olive Avenue. The 12-inch waterlines will supply 8-inch water distribution pipelines that will also be installed as part of this project, replacing the existing antiquated pipelines throughout the Heritage District addressing increased water demand, system redundancy and fire flow for area residential and businesses in accordance with Gilbert requirements. A general summary of the work items includes construction of: approximately 3,347 linear feet of 12-inch ductile iron pipe; 4,604 linear feet of 12-inch PVC C-900 pipe; 2,878 linear feet of 8-inch ductile iron pipe; 7,113 linear feet of 8-inch PVC C-900 pipe; 102 gate valves ranging from 6-inch to 12-inch; 17 concrete encasements; 34 vertical realignments; 14 isolation valves ranging from 6-inch to 8-inch; 24 tapping sleeves. Work also includes 7,668 linear feet of water service replacement; 9 air release valve assemblies; 210 linear feet of 36-inch steel casing installation by jack & bore; 24,770 linear feet of water line abandonment; 12,481 square yards of asphalt removal/replacement; 10,286 square feet of concrete sidewalk/driveway/valley gutter removal/replacement; 1,338 linear feet of curb & gutter removal/replacement, and miscellaneous work such as valve abandonment, traffic control, and striping necessary to complete the work.

Desert Ridge Superblock 11 Water Transmission Mains; Pulte Homes and City of Phoenix, Phoenix, AZ: Construction Services Manager overseeing the full-time third-party construction administration and observation services for this \$2.44 million improvement project. The work consisted of installation of 3,592 LF of restrained and non-restrained 42-inch DIP transmission mains; installation of 1,835 LF of restrained and non-restrained 36-inch DIP transmission mains; installation of 1,481 LF of restrained and non-restrained 24-inch DIP transmission mains. The project was complicated by multiple design changes due to conflicts with unknown existing utilities.

Loop 303 Well; City of Peoria, Peoria, AZ (7/2016 – 3/2018): Construction Services Manager overseeing part-time construction administration and observation services for this \$1.6 million well equipping project. Work included installation of a vertical turbine lineshaft type well pump having a total dynamic head of over 400 feet and a 150 HP premium electric motor. Also included was the construction of 600 LF of 16-inch DIP waterline, chlorination system and building, discharge well flushing structure, on-site stormwater retention basin with drywell, Electrical/I&C System with a standby generator, decorative eight-foot-tall CMU perimeter site wall, and a pump motor sound enclosure.

Anthem Upper Reservoir No. 2; Pulte Homes and Arizona American Water, Anthem, AZ: Construction Manager overseeing the full-time construction administration and inspection services for the \$1.8 million potable water reservoir project. The project included a fully buried concrete storage reservoir with a 1.65-million-gallon capacity, complete with inlet, outlet and overflow piping, inlet flow mixing system, ultrasonic level sensor and three-layer geomembrane system, as well as sitework unique to the site (backfill of previously-excavated area and complete site landscaping). The tank was constructed to share a common wall with the existing buried reservoir, but will operate only in parallel with the existing tank. Tank is identical in size to existing tank; thus, storage capacity will be doubled at the site, to 3.3 mg. Key factors in the project include the necessity of keeping the existing reservoir in service throughout construction, restrictive site conditions (the station is in the middle of a high-end residential community, with residents living adjacent to the station on the east and south sides), and design of the mixing system such that flows are balanced between the two tanks.

Broadway Road Sewer Main Replacements; City of Phoenix, Phoenix, AZ: Construction Services Manager overseeing the full-time third-party construction administration and inspection services for this five-phase, seven-year \$54.8 million CMAR delivered sanitary sewer replacement project. Work included: Phase 2D – installation of approximately 9,000 feet of new 24-inch and 30-inch sewer mains and 46 manholes with a final cost of \$8.6 million. Phase 2C Small Streets – rehabilitation of existing 21- and 24-inch sewer mains by means of slip lining with approximately 14,000 linear feet of new FRP and HDPE pipes ranging in size from 11 to 21 inches in diameter with a final cost of \$5.2 million. Phase 2C – installation of approximately 11,800 LF of 30-inch, 1,100 LF of 8-inch, 50 LF of 12-inch, and 10 LF of 21-inch sewer lines with a final cost of \$10.3 million. Phase 2B – installation of approximately 6,800 LF of 36-inch Open Cut and 7,100 LF of 36-inch Trenchless sewer mains with a final cost of \$18.2 million. Phase 2A – installation of approximately 5,200 LF of 42-inch, 6,500 LF of 36-inch, 5,500 LF of 18-inch and 200 LF of 10-inch and smaller sewer mains with a final cost of \$12.5 million.



COLBY NORTHERN

Senior Construction Inspector

Stanley Consultants

24 Years of Experience 13 Years with Stanley Consultants

Education

College of Eastern Utah, Electrical Apprenticeship Training, 1994

Specialized Training

- » NASSCO Certification #U-916-07005389 Expires 12/16/2019
- » PACP; MACP; LACP
- » Arizona Technical Testing Institute (ATTI)- January 2021
- » Industrial Automation Grounding Harmonics and Transient Over-voltage Protection Course
- » Project Management Training- August 2006
- » Technical Writing Training- August 2006
- » Construction Manager at Risk Training- October 2006
- » Real World Project Management Training- November 2007
- » Electrical Diagrams, Schematics & Drawings- November 2006
- » Constructing Your Contract- The Art of Papering Your Project- December 2006
- » Quality Control Seminar- February 1, 2007
- » Commercial Building and Home Inspector Arizona BTR #54452
- » OSHA Standards for the Construction Industry (OSHA 510) 30 Hour Course
- » OSHA Standards for the Construction Industry (OSHA 500) 30 Hour Course
- » Authorized 10 and 30 Hour OSHA Trainer (U04977506)
- » American Concrete Institute (ACI)- Field Technician Grade 1- January 2016
- » OSHA Confined Space Training- August 2009
- » IMSA Work zone Safety Specialist- November 2010

STANLEYCONSULTANTS, Inc.

Colby has professional construction experience with emphasis on project management and construction oversight. His project experience includes design and construction of electrical and instrumentation systems, sanitary sewer systems, pump stations, wells, reservoirs, water infrastructure, wastewater treatment plants, and roadways. Colby's expertise includes project management, construction administration, subcontractor management, interpreting plans and specifications, on-site inspections, schedule development and review, system start-up testing, final completion punch-list and warranty walkthroughs. He has extensive knowledge of all phases of construction from award of contract through certificate of occupancy.

PROJECT EXPERIENCE

Reservoir and BPS No. 7 Replacement, Gilbert, AZ: Sr. Construction Observer responsible for full time on-site review of work for this \$5.1 million dollar project consisting of a 2MG concrete reservoir, 1,450 gpm well and 3,000 gpm booster pump station.

Elliot District Park, Safety Repairs, Gilbert, AZ: Sr. Construction Observer responsible for full time on-site construction services for this \$1.7 million dollar CM&R project to repair immediate safety concerns.

I-17 & Sweetwater, 24" Transmission Main Replacement, Phoenix, AZ: Sr. Construction Observer responsible for full time on-site review of work for this \$1.9 million dollar improvement project

Broadway Road 24-inch & 30-inch Sewer Main Improvements (Phase 2D), Phoenix, AZ: Sr. Construction Observer responsible for on-site review of work for this \$8.6 million dollar sanitary sewer replacement project.

Broadway Road Sewer Main Improvements, (Phase 2C Small Streets), Phoenix, AZ: Sr. Construction Observer responsible for on-site review of work for this \$5.2 million sewer pipe and manhole rehabilitation project.

Broadway Road 36-inch Sewer Main Improvements (Phase 2B), Phoenix, AZ: Sr. Construction Observer responsible for full time on-site review of work for this \$18.2 million dollar sanitary sewer replacement project.

Dynamite Mountain Ranch Lift Station #65 and Dual Force Mains, Phoenix, AZ: Sr. Construction Observer responsible for full time on-site review of work for this \$3.6 million dollar project consisting of a 2.5MGD lift station and 5,600 LF of dual 12-inch force mains.

Anthem West Lift Station #68, Phoenix AZ: Sr. Construction Observer responsible for full time on-site review of work for this \$1.4 million dollar project.

Arizona American Water, Anthem Panhandle Lift Station #1, #2, and Unit 57, Anthem AZ: Sr. Construction Observer responsible for construction oversight of three sewage lift stations with a construction cost of \$1.7 million dollars.

- » IMSA Traffic Signal Technician Level 1- November 2010

Professional Societies

- » Member - International Association of Electrical Inspectors (IAEI).
- » Member - International Municipal Signal Association (IMSA).

Arizona American Water, Sun City Grand Wells #4 and #7, Sun City, AZ: Sr. Construction observer responsible for post design construction oversight of these 2 potable wells.

Scottsdale Well Site 140, City of Scottsdale, AZ: Project Manager for the electrical contractor responsible for construction of this new potable water well in North Scottsdale.

City of Chandler, Brine Evaporation and Recharge Ponds, Chandler, AZ: Construction Superintendent responsible for daily operations to construct temporary facilities and clean 5 reverse osmosis brine ponds using floating dredges.

Zone 19 Pump Station and 1 Million Gallon Reservoir, City of Prescott, AZ: Sr. Construction Observer responsible for design of electrical and instrumentation systems as well as on site start up testing of this 1 million gallon reservoir and 1200 GPM booster station.

Avra Valley Wast Water Treatment Facility Expansion, Pima County- Tucson, AZ: Project manager for the electrical contractor responsible for providing and installing electrical distribution equipment and instrumentation valued at \$2 million dollars.

Scottsdale Booster Pump Station 179, City of Scottsdale, AZ: Project Manager for the electrical contractor responsible for construction of this new facility in Old Town Scottsdale.

Sereno Canyon Booster Pump Station and Sewage Lift Station, City of Scottsdale, AZ: Project Manager for the electrical contractor responsible for construction of these new facilities in the Sereno Canyon Development of North Scottsdale.



DEVRON SUCHOR

Senior Resident Project Representative

Stanley Consultants

23 Years of Experience 12 Years with Stanley Consultants

Education

Bachelor of Science, Construction Management, Arizona State University

Professional Registration

Field Technician: AZ #16023F

Field Technician: AZ #01056335

Specialized Training

ACI Concrete Field Testing Technician - Grade, American Concrete Institute, February 2016

Arizona Technical Testing Institute – Field Technician (ATTI), May 2016

Confined Space Training, April 2012

Confined Space Training, March 2011

PACP/MACP Certification, April 2010

ACI Specialty Concrete Inspector Certification, ACI, December 2009 (expired)

Ameron T-Lock Welding Certification, 2009

Confined Space Training Program, ADOSH, September 2009

ATTI Field Technician, Arizona Technical Testing Institute, November 2007

Primavera SureTrak Project Manager Training, PMTec, Inc., September 2007

Confined Space Training Program, ADOSH; November 2005

Confined Space Awareness Program; United Rentals; January 2005

Devron has 23 years of experience that includes 11 years in the Phoenix construction industry. His responsibilities have included various large diameter sanitary sewer and water transmission mains, water/sewer treatment plant and lift station/pump station construction, storm drain, roadway/bridge construction, electrical sub-station improvements, 230 kV and 500 kV switchyard projects and underground dry utility installations such as electric and communications. His skills include project management, project coordination, cost estimating, scheduling, acquiring local and state permits, utility coordination, and construction oversight and direction of field inspection and testing teams.

PROJECT EXPERIENCE

Heritage District Waterline Project, Construction Manager (CM) Services, Town of Gilbert

Sr. Resident Project Representative responsible for performing design review, construction inspection, contractor pay application and change order review, quality assurance testing review and coordination, and construction coordination between Owner/Design Engineer, and CM@RISK/Contractor for this waterline \$7.8 million waterline improvement project. Stanley Consultants is providing CM Services consisting of design and construction oversight of the Design Engineer and CM@R selected for this project. The Project is generally described as the installation of two 12" waterlines which parallel Gilbert Road through the Heritage District from Elliot Road north to Olive Avenue. The 12-inch waterlines will supply 8-inch water distribution pipelines that will also be installed as part of this project, replacing the existing antiquated pipelines throughout the Heritage District addressing increased water demand, system redundancy and fire flow for area residential and businesses in accordance with Gilbert requirements.

Lift Station 42 Operational Improvements, Construction Administration and Inspection Services, City of Phoenix Water Services Department

Sr. Resident Project Representative responsible for performing construction inspection, shop drawing review, RFI review for this Lift Station Improvement Project. This project included wet well demolition and replacement, new pumping equipment, new mechanical valves and piping, force main and gravity sewer installations, manholes with protective coatings, valve vault demolition and replacement, SES, electrical equipment upgrades, magnetic flow meter, and biofilter installation.

Higley and Warner Intersection Improvements, Project Manager/Construction Manager (PM/CM) Services, Town of Gilbert

Sr. Resident Project Representative responsible for performing construction inspection, contractor pay application and change order review, quality assurance testing coordination, utility relocation coordination with Salt River Project, Cox Communications, Roosevelt Water Conservation District, and CenturyLink, and construction coordination between Owner/Design Engineer/Geotechnical Engineer, and Contractor for this roadway and intersection improvements project. Stanley Consultants provided full-time PM/CM services for this \$6.0 million Design-Bid-Build project. This project included intersection

DEVRON SUCHOR

Excavation Awareness Program;
United Rentals Trench Safety; October
2004

ADOSH Excavation Safety; Industrial
Commission of Arizona; April 2003

AutoCAD Level 2 Training; Autodesk;
October 2002

OSHA #301: Excavation, Trenching,
Soil Mechanics; United States
Department of Labor; August 2001

Horizontal Directional Drilling Fluids
Applications; CETCO Drilling Products;
April 2000

Construction Project Management
Course; Associated General
Contractors Association; Cooper
Aerobics Center; Dallas, TX;
September 1999

Reducing Air Pollution from
Construction; Paradise Community
College; December 1998

OSHA Trenching & Shoring Safety;
Occupational Safety and Health
Administration; March 1997

Fiber Optic System Design; American
Research Group, Inc.; February 1996

Electrical Safety; National Technology
Transfer, Inc., February 1996

NUCA Competent Person Training;
National Utility Contractors Association;
February 1995

improvements of Higley and Warner Roads to full major arterial standards on all legs within the Town of Gilbert.

Broadway Road Sewer Improvements Construction Administration and Inspection Sewer Improvements Phases 2A, 2B, 2C; 2CSS, and 2D, City of Phoenix

Sr. Resident Project Representative responsible for performing shop drawing review, RFI, design review, contractor pay application and change order review, construction inspection, and construction coordination between Owner/Design Engineer, City and County, and CM@RISK/Contractor for this sewer collector improvements project.

Stanley Consultants provided full-time "third-party" CM, administration and inspection services for this estimated \$60 million project that consists of five separate phases of sanitary sewer main replacement. Work for the phases consisted of:

- » *Phase 2A, Broadway Road from 51st Avenue to 33rd Avenue*
- » *Phase 2B, Broadway Road from 33rd Avenue to 10th Avenue*
- » *Phase 2C, Broadway Road from 10th Avenue to 17th Street*
- » *Phase 2C Small Streets, local streets north of Broadway Road between 9th Avenue and 16th Street*
- » *Phase 2D, Broadway Road from 17th Street to 32nd Street*

Superblock #01-South Transmission Main, City of Phoenix

Resident Project Representative responsible for providing third-party, full-time construction observation for this \$2.1 million dollar potable water distribution improvement project. The work consisted of the installation of 7,200 linear feet of 42-inch ductile iron pipe, 7,800 linear feet of 36-inch ductile iron pipe, along with varying lengths of 12-inch, and 6-inch ductile iron pipe. Also included in this project was the installation of: 350 linear feet of 66-inch diameter steel jack and bore casing under the Loop 101; pavement replacement; signing; pavement markings; curb/gutter/sidewalk; utility adjustments; traffic control; fire hydrants; and related incidental work.

Booster Pump Station, 56th & Lone Mountain, LLC and City of Phoenix

Construction Inspector responsible for performing on-site inspection, shop drawings, and RFI review. Project consisted of installation of a booster station and PRV facility with a firm capacity of 3,500 gpm utilizing six pumps to service Zones 10 and 10+ for the City of Phoenix. The facility provides a total capacity of more than 5,500 gpm. Site improvements included an electrical/control building chlorine injection through a hypochlorite tablet chlorinator and feed system and backup power from a 1,000 kW standby generator with sound enclosure and hospital-grade silencers.

15th Avenue Sewer Replacement, City of Phoenix

Resident Project Representative responsible for performing shop drawing, RFI, COR review, construction inspection, and construction coordination between Owner and Contractor for the construction of RGRCP T-Lock lined sewer line and waterline installation.

West Lift Station No. 68, Pulte Homes Corporation

Construction Inspector responsible for performing shop drawing, RFI, COR review, construction inspection, and construction coordination between Owner and Contractor for the construction of the waterline and sewer line installation.



TONY LEIBOLD

Senior Resident Project Representative

Stanley Consultants

22 Years of Experience 11 Years with Stanley Consultants

Specialized Training

Advanced PLC Programming,
Triconex University, Houston, TX

Professional Societies

» Member - International Society
of Automation (ISA).

Tony has hands-on experience in Design, Construction, Startup and Commissioning of Instrumentation / Controls and Electrical systems in various industries including water treatment / distribution, and wastewater treatment / collection, chemical, petrochemical, refining, and power generation. He is experienced in the installation, calibration, troubleshooting, and maintenance of various Instrumentation and Control Systems; PLC/DCS Programming; client Instrumentation and Controls training; design / shop drawing submittal reviews; installation inspections (QA/QC); ISA Standards; National Electrical Code; field engineering coordination; Construction Cost Estimating; and construction priority coordination to satisfy schedule/client completion requirements.

PROJECT EXPERIENCE

Arc Flash Assessment; Town of Gilbert; Gilbert, Arizona

Project Manager responsible for project management, field data collection, schedule development, internal engineering coordination, and client communication. Stanley Consultants provided engineering services for an arc flash hazard analysis for the North Water Treatment Plant and 20 booster and well pump sites. Our work included an arc flash hazard analysis, a short-circuit fault analysis, and protective device coordination to meet the requirements of NFPA 70E and IEEE.

Lift Station 43 Improvements Study; City of Phoenix, Phoenix, Arizona

Project Manager responsible for project management, electrical study development, cost estimating, schedule development, and client communication. Stanley Consultants completed a facility study that evaluated the lift station, force main size, force main configuration and capacity, mechanical piping, pump capacity, electrical systems, and instrumentation and control systems to determine improvements necessary to bring the lift station up to current design standards and provide reliability for City of Phoenix operations staff.

Lift Station 53 Upgrades; City of Phoenix, Phoenix, Arizona.

Project Manager responsible for design and construction administration and inspection services for the upgrades to the city's wastewater collection lift station 53. The scope encompassed the replacement of all electrical and mechanical equipment. Electrical equipment replaced included the SES, MCC, ATS, Standby Generator, Pump Control Panel and all associated field instrumentation. The RTU cabinet, previously replaced on a past project, was relocated to associate with the new electrical lineup. In addition, pressure indicating transmitters were installed on the discharge piping. The security system at the station was also be updated to meet City of Phoenix current standards. The two submersible pumps were replaced with new pumps; existing valving was relocated to an above ground valve line configuration.

Lift Station Process Control Optimization; City of Phoenix, Phoenix, Arizona.

Project Manager responsible for coordinating the design efforts associated with the installation of pressure indicating transmitters (PIT) to the pump discharge piping or force mains at 16 wastewater lift stations. Conduit and wire will be installed from the transmitters

TONY LEIBOLD

to the existing remote telemetry unit (RTU). The RTU's will be modified as necessary to accept the incoming analog signals from the PIT. The existing PLC code will be updated as applicable to register the new analog signals. Saddle taps will provide a 2" Female NPT connection for each PIT installation. Block and bleed isolation and calibration / maintenance valves will be provided for each installation.

Lift Station 57 Improvements; City of Phoenix, Phoenix, Arizona

Project Manager responsible for design and construction administration and inspection services for the upgrades to the city's wastewater collection lift station 57. Responsibilities included coordinating the replacement of all electrical and mechanical equipment including Pumps, SES, MCC, ATS, Pump Control Panel and all associated field instrumentation. In addition, pressure indicating transmitters will be installed on the discharge piping. The security system at the station will be relocated to a new location to coordinate with the new electrical lineup. Existing valving was relocated to an above ground valve line configuration.

Wastewater Collections SCADA System Upgrades; City of Phoenix, Phoenix, Arizona.

Project Manager, responsible for design and construction administration and inspection oversight for electrical and Remote Telemetry Units (RTU) upgrades at 5 wastewater collection sites. Responsibilities also included project coordination between the client, contractor, 3rd party instrumentation and controls inspector, and 3rd party PLC programmer. Responsible for monitoring the budget, managing the design and construction efforts, and facilitating all the monthly progress meetings. Sites included:

Lift Station 40 – Redundant Electrical Service Integration; Variable Frequency Drive (VFD) Replacement; RTU Replacement; Lift Station 41 – VFD Replacement; Lift Station 42 – RTU Replacement; Lift Station 43 – RTU Replacement; Lift Station 61 – RTU Replacement; Lift Station 62 – RTU Replacement

Wastewater Collections RTU Replacements; City of Phoenix, Phoenix, Arizona.

Project Manager, Resident Project Representative responsible for project coordination between the client (Stanley Design-Build and the City of Phoenix), contractor, City of Phoenix Instrumentation and Controls Inspector, and PLC programmer. Responsible for monitoring the budget, managing the design and construction efforts, and facilitating all the monthly progress meetings associated with upgrading the City's existing Remote Telemetry Units (RTU) to a new Modicon Quantum PLC standard at 23 wastewater collection sites.

Wastewater Collection Lift Station 99 Electrical Upgrades; City of Phoenix, Phoenix, Arizona.

Project Manager responsible for providing design, construction administration and inspection support for the complete replacement and upgrading of the existing electrical system at this station. Major equipment replaced at the station included the service entrance section, motor control center, pump control panel and remote telemetry unit. Reduced Voltage Soft Starters were added to prevent the existing 100HP motors from starting across-the-line. A Manual Transfer Switch was added for the use of a portable standby generator. This site required the development of a MOPO to ensure that the site would remain operational and maintain a reliable supply of CAP water to the Kierland Golf Club.

Lift Station Electrical Improvements; City of Phoenix; Phoenix, Arizona.

Construction Inspector responsible for the review of shop drawing/submittals and the inspection of all Electrical and Instrumentation and Control Equipment for miscellaneous upgrades at two City of Phoenix Lift Stations. Responsibilities included construction support, as-built electrical and P&ID drawings review, load calculation review, control panel as-built evaluation, area classification coordination, maintenance procedure development assistance, training services, Computer Control System (CCS) loop-check / commissioning support, and ground grid system testing.



BRIAN DAVIS, P.E.

Principal Structural Engineer

Stanley Consultants

36 Years of Experience 20 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, University of Hartford

Professional Registration

Civil Engineering: AZ #23409

Structural Engineering: AZ #24468

Civil Engineering: CA #45615

Civil Engineering: CO #26235

Structural Engineering: HI #17446

Civil Engineering: NV #10182

Structural Engineering: UT
#4851398-2203

Professional Societies/Memberships

- » American Society of Civil Engineers.
- » ASCE bridge Technical Committee
- » Former Member - City of Scottsdale Transportation Commission.

Brian has been responsible for advance planning studies; project assessment studies; inspection and rehabilitation of existing structures; seismic analysis and retrofit design; and the design of steel, reinforced masonry, reinforced concrete, prestressed concrete, and post-tensioned concrete structures. Types of structures include equipment shade structures, canopies, and "architectural features" like windmill foundations; highway, light rail and pedestrian bridges, buried concrete tanks, culverts, tunnels, buildings, antenna towers, cantilever and tieback retaining walls, and highway sign structures and camera poles. Experience has involved the analysis, design, and rehabilitation of more than 50 bridges in addition to inspections, concept studies and reports.

PROJECT EXPERIENCE

South Mountain Freeway- Connect 202L; ADOT; Phoenix, AZ USA

Structural Engineer responsible for reviewing preliminary bridge plans, pedestrian bridge preliminary design, standardized bridge details, precast deck panel preliminary research, precast girder preliminary design checks, and coordinating preliminary design work for 17 bridges. The structural coordination with roadway design allowed for the elimination of eight bridge structures, saving approximately 170,000 square feet of bridge construction.

Brian's expertise in bridge design was instrumental in the research and development of a precast concrete deck panel preliminary design concept that will be used on a majority of the 45 bridges on this project. Construction cost savings and efficiency was emphasized for all preliminary structural design to improve the design-build contractor's construction schedule and bid price.

Northern Parkway, Dysart Road to 111th Avenue; MCDOT; Maricopa County, AZ

Structural Engineer for the 2.5 miles extension of the Northern Parkway. Northern Avenue, mainly a two-lane road corridor, was expanded to a six-lane freeway. New service interchanges with overpass bridges were added at Dysart Road and El Mirage Road and a new five-span AASHTO girder structure over the Agua Fria River. The new river bridge was constructed in its entirety by shifting Northern Avenue to a paved low water crossing detour north of the new bridge. Piers and drilled shafts were designed for scour; abutments are sheltered by new spur dike bank protection.

Northern Parkway-Reems Road PDS; MCDOT; Maricopa County, AZ

Project Manager and Structural Engineer for the project design tasks including bridge, roadway, signing and marking tasks, as well as final utility and environmental clearance documents. Brian performed final plan reviews, structural design checking, coordination between the client, ADOT, FHWA, stakeholders, corridor design consultants, in combining this interchange design with the nearby Litchfield Road Traffic Interchange Overpass design prepared by a separate consultant, for a single bid package. Specifications were modified to create a single specification book that met the requirements of both projects. Quantities were combined into a single bid tab for bidding. This enable the County to combine both projects into a single bid to lower costs and simplify County project administration.

BRIAN DAVIS, P.E.

Gilbert Road Bridge Scour On-Call; MCDOT; Maricopa County, AZ

Lead Structural Engineer responsible for structural analysis and assessment of the existing bridge foundations for multiple flood events (5-, 10-, 25-, 50-, and 100-year) to determine structure vulnerability and assess bridge vulnerability to various flood events.

MC85 Extension - SR 85 to Turner Road Design; MCDOT; Maricopa County, AZ

Structural Engineer responsible for the design of the Turner Road Bridge widening. As part of the MC85 Extension project to SR 85, the Turner Road Bridge over the Buckeye Canal needed to be widened. The existing 21-inch deep precast voided slab structure was widened with 18-inch deep precast voided slab units to avoid encroachment on the Buckeye Canal freeboard.

Lake Pleasant Parkway, Westwing to SR303 Design-Build; City of Peoria; Peoria, AZ

Structural Engineer and Final Plan Quality Control Engineer responsible for preliminary design and design coordination the oversized non-standard drainage/multi-use path concrete box structure under Lake Pleasant Parkway. Provided structural support and checking for final culvert design documents including culvert light well and associated retaining walls. Brian's structural expertise was used to solve the critical issue of making sure the structure was designed to handle higher than normal construction loads as the haul route was over the top of the new structure while providing the design-builder and City with a cost-effective structure.

Black Mountain Ramps SR51/SR101L; ADOT; Phoenix, AZ

Structural Engineer and Final Plan Quality Control Reviewer responsible for design coordination, bridge selection report updates, bridge pier design checks, drill shaft checks, project invoicing and progress reports, and final plan quality control reviews.

SR24 Gateway Freeway; ADOT; Mesa, AZ

Structural Engineer responsible for structural design of prestressed straddle bent on ramp NW and structural reviewer on two flyover ramps NW and WS.

Lift Station 53 Electrical/Minor Civil Upgrades; City of Phoenix; Phoenix, AZ

Lead Structural Engineer responsible for shade structure design. Prepared specifications. Assisted structural coordination with City hired artist.

Wastewater SCADA System; City of Phoenix; Phoenix, AZ

Structural Engineer responsible for design of equipment shade structures for the SCADA upgrades to Lift Stations 61 and 62.

95th Avenue Bridges, Glendale, AZ

Structural engineer for the Bethany Home Outfall Channel Bridge, a four-span precast prestressed concrete structure over Glendale's multi-use "linear" park and flood control channel.

McCullough Vista Neighborhood Park, Henderson, NV

Engineer responsible for structural oversight, structural design, and design review of gabion walls, restroom building with a shaded roof platform, picnic shade canopies, a post-tensioned basketball court, a viewing tower and a pedestrian bridge.

City of Prescott Old North Reservoir Replacement; Prescott, AZ

Design of a new reinforced concrete partially buried 3.0 MG reservoir on a hillside site in Prescott.

Glendale Sewage Treatment Facility Lift Station 73; Phoenix, AZ

Designs included a 40-foot deep wet well, two containment basins, two shade structures, and perimeter walls. Facility was built by the City of Glendale in Phoenix to support their new baseball spring training facility and required extensive coordination with both cities, the county and the facility developer. This lift station was designed to pump flows from the entire stadium development – the ballpark, commercial development, resort, and other development components.



JOHN LANGE, P.E.

Senior Structural Engineer

Stanley Consultants

18 Years of Experience 17 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, University of Arizona

Professional Registration

Civil Engineering: AZ #44705

Civil Engineering: UT #10460687-2202

Civil Engineering: ID #17550

Professional Societies

- » Member - American Society of Civil Engineers (ASCE) and American Institute of Steel Construction (AISC).

John has experience on transportation and water-wastewater projects. His responsibilities include development of Design Concept Reports, Structure Selection Reports, project budgets, structural analysis and computer modeling, contract plans and specifications, cost estimates and providing post-design services. His projects include design of both freeway and municipal bridges utilizing both precast and cast-in-place concrete elements, design of cantilevered retaining walls, combination walls and drainage structures. Other projects include bridge widening, potable water supply and wastewater treatment structures, concrete tanks and vaults, non-standard box culverts, electrical switchyard foundations and large transmission pole foundations.

PROJECT EXPERIENCE

Baseline Road Improvement; City of Tempe; Tempe, AZ

Structural Engineer responsible for design of a replacement bridge for Baseline Road at the Salt River Project's Western Canal. To meet the project constraints, the bridge design utilized a single-span bridge and shallow voided-slab beams with a surplus deck methodology. This placed the beams normal to the canal and skewed approximately 45 degrees to the roadway, thus reducing the span length and structure depth. This in turn reduced roadway profile changes while still providing the required freeboard and adequate clearance for canal reconstruction. Staged construction allowed for traffic to be maintained and the canal to remain in operation throughout construction of the bridge.

Riverview Drive 18th to 22nd Street; City of Phoenix; Phoenix, AZ

Structural Engineer responsible for design of a non-standard two-cell box culvert within an existing ADOT trapezoidal drainage canal. The ADOT channel is approximately 95 feet wide at the top and 25 feet deep. The final structure is 62 feet, provides two 16 feet x 14 feet barrels to accommodate predicted flows as well as passage of maintenance vehicles. A 10 feet headwall and retaining walls were designed to retain the roadway fill over the box and minimize the overall length of the box culvert. Specially designed U-channel retaining walls flare the channel upstream and downstream of the box to provide clearance for the passage of maintenance vehicles.

Power Road-Galveston to EMF; City of Mesa, AZ

Structural Engineer responsible for design of bridge/culvert widening over the RWCD canal that were built while the canal is in full service and with zero impact to canal features. The existing RWCD box culvert beneath Williams Field Road was left in place and undisturbed. The roadway above was widened using shallow precast/prestressed slab girders which completely spanned over the existing culvert inlet and outlet structures.

Lake Pleasant Parkway, Westwing to SR303 Design-Build; City of Peoria; Peoria, AZ

Structural Engineer responsible for the final design of multi-use pedestrian underpass consisting of non-standard box culvert, non-standard culvert headwalls, and non-standard wing/retaining walls.

JOHN LANGE, P.E.

Northern Parkway, Dysart Road to 111th Avenue; Maricopa County Department of Transportation; Glendale, El Mirage, and Peoria, AZ

Structural Engineer responsible for design review and calculation checking for Agua Fria Bridge and screen walls. This project includes the final design and construction plans, specifications, and estimates for the Phase II Northern Parkway, Dysart Road to 111th Avenue project.

Sonoqui Wash Channelization II; Flood Control District of Maricopa County; Maricopa County, AZ

Structural Engineer responsible for design of multiple minor structures associated with the Sonoqui Wash channel reconstruction and multi-use trail. Structures included irrigation standpipes modifications, equestrian ramps, retaining walls and box culvert extensions & headwalls.

Country Club Drive FUTS at 1-40; Arizona Department of Transportation; Flagstaff, AZ

Structural Engineer responsible for the design of pedestrian fence modifications which removed the existing chain link fence with current ADOT standard pedestrian fence on the existing Country Club Traffic Interchange Underpass Bridge parapet. The existing bridge parapet was analyzed for the additional loading from the taller heavier fence. Design included repairs and modifications to the existing bridge parapet to accommodate

SR24 Gateway Freeway; Arizona Department of Transportation; Maricopa County, AZ

Structural Engineer responsible for the design of a two-lane, 3200-foot-long, cast-in-place post-tensioned box girder flyover ramp bridge. The bridge consists of five frames with a total of 21 spans ranging in length from 128' to 184' and vary in depth from 6'-3" to 7'-6". 9'-0" diameter drilled shafts support bladed columns ranging in height from 21' to 77' tall.

I-19/Ajo Way (SR 86) Traffic Interchange; ADOT; Tucson, AZ

Structural Engineer responsible for design of the new Ajo Way TI UP SPUI bridge. The new bridge replaced the existing 50-year-old four span steel girder bridge with a new two-span precast-precast concrete girder bridge. Full height retaining abutments founded on drilled shafts were used to reduce the bridge length. The design required complex modeling and analysis of cast-in-place deck "flares" at each corner of the bridge to accommodate the SPUI ramp geometry and included installation of a full width overhead signal bridge supported on the bridge.

Project Development On-Call, Pinal Air Park TI UP STR #771 Bridge Deck Rehab Project Assessment; Arizona Department of Transportation, AZ

Project Manager responsible for the development of a Project Assessment Report evaluating alternatives for the rehabilitation or replacement of the existing bridge deck. Structural Engineer responsible for design of bridge rehabilitation including deck replacement, and steel bridge girder repairs.

South Mountain Freeway; Arizona Department of Transportation; Phoenix, AZ

Structural Engineer responsible for bridge designs of the Southern Ave and Broadway Road overpasses. Each location consisted of twin, single-span precast-prestressed concrete girder bridges. Each bridge is founded on drilled shaft foundations behind MSE retaining walls.



DAVID JODER, P.E.

Senior Structural Engineer

Stanley Consultants

26 Years of Experience 13 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, University of Wyoming

Professional Registration

Civil Engineering: AZ #40561

Professional Engineering: CO #53849

Professional Engineering: UT #10761498-2202

Professional Societies

- » Member - American Council of Engineering Companies (ACEC).
- » Member - American Railway Engineering and Maintenance-of-Way Association (AREMA).

David has engineering experience in the structural design, construction, and inspection of roadway and infrastructure facilities. He has been responsible for analysis and design of bridges using AASHTO and other applicable design codes, plan preparation, detailing, and checking of major and minor structural systems. David is experienced with design of multi-span pre-stressed, post-tensioned, steel girder, steel truss, and segmental bridges with associated substructures, pedestrian bridges, bridge widening, box culverts, MSE, and cantilevered retaining walls.

PROJECT EXPERIENCE

107th Avenue RID Canal Bridge, City of Avondale, AZ

Structural Engineer for the widening of the existing bridge over the RID canal on 107th Avenue on the east side. The structure has been previously widened on the west side. The bridge was widened approximately 16 feet to the east. It also included the construction of roadway widening improvements on the east side of 107th Avenue north of the bridge for approximately 150 feet to existing improvements. There was an existing 4-inch gas line that is located under the structure on the east side that required relocation. Stanley delivered the final bid documents in 90 calendar days.

Gilbert SR202L/ Lindsay Road TIDCR; Town of Gilbert, AZ

Structural Engineer responsible for development of several bridge and reinforced concrete box culvert structures for geometrically congested interchange of SR202L, Lindsay Road, and the Roosevelt Water Conservation District (RWCD) Canal. Challenges included coordinating and complying with RWCD requirements including phased construction to mitigate service interruptions.

Central Avenue Parking Garage, City of Phoenix, AZ

Structural Engineer for the retrofit design of an existing parking garage structure in central Phoenix. The concrete double-T deck beams were experiencing excessive deflection under traffic resulting in spalling of concrete and other serviceability issues. Stanley Consultants devised an innovative system of brackets providing a rigid connection between adjacent flanges to distribute live loads to multiple beams. Water proofing recommendations were provided to reduce corrosion and nuisance drainage issues.

South Tempe Water Treatment Plant, City of Tempe, AZ

Project Manager and Structural Engineer for the repair of a deteriorated roof slab over the flocculation drive machinery room. The existing roof slab was experiencing excessive deflection with spalling of concrete and evidence of rebar corrosion. Stanley Consultants performed field reconnaissance, made recommendations, and prepared the design and details for removal and replacement of the affected roof area. Post design services were also provided in the form of Special Inspections for key structural elements during construction.

DAVID JODER, P.E.

Phoenix Relief Sewers Study and Design, City of Phoenix, AZ

Structural Engineer for the design and detailing of modifications to an existing bridge to accommodate a 22-inch vent pipeline. Details included coring through existing bridge backwalls and diaphragms with associated retrofitting to maintain the structural integrity of affected elements.

Power Road Northbound, City of Mesa, AZ

Structural Engineer for the design of the NB Power Road crossing of the Roosevelt Water Conservation District canal. Additional responsibilities included coordination of multiple agencies, utilities, and land owners all with diverse land use requirements. The RWCD crossing consists of a severely skewed single span voided slab girder bridge in very close proximity to an adjoining AASHTO girder bridge over the East Maricopa Floodway (the two abutments are in actual contact). There was a total of four bridge structures on this project, all with unique and dissimilar designs and all within close proximity to each other.

SR 95 Richardo/Bullhead, Anderson-Nelson Inc., Bullhead City, AZ

Structural Engineer responsible for the design and contract plan documents for an eight-cell cast-in-place concrete box culvert. The scope of work for design services for SR 95, Richardo Avenue to 800 feet North of Bullhead Parkway included: pavement widening for the east side of SR 95 between Richardo Avenue to 800 feet north of Bullhead Parkway to accommodate the southbound vehicle movements.

Bridge Improvements, Town of Gilbert, AZ

Structural Engineer responsible for the Structural Concept Report (SCR) that consisted of numerous structural alternatives for the proposed Sonoqui Wash Bridge and widening of the existing Queen Creek Wash Bridge. Final design of a slab-type bridge for the Sonoqui Crossing and a symmetrical widening of the existing two-span 206 feet long, pre-cast, pre-stressed AASHTO Girder Bridge. Extensive coordination was needed between Stanley and the FCDMC due to the FCDMC's Chandler Heights Basin project which started at the downstream face of the widened bridge.

South Mountain Freeway- Connect 202L; ADOT

Structural Engineer responsible for developing preliminary bridge designs and details. This fast-track design project includes both reinforced and prestressed/post-tensioned concrete. Dave's extensive bridge design and field construction experience with bridges utilizing these materials enable him to provide innovative solutions to the complex and ever-changing design challenges.

I-19/Ajo Way (SR 86) Traffic Interchange; ADOT; Tucson, AZ

Structural Engineer responsible for design, detailing, and inter-discipline coordination on a variety of structural roadway elements including tall combination sound/retaining walls utilizing proprietary lightweight backfill materials.

Lake Pleasant Parkway, Westwing to SR303 Design-Build; City of Peoria; Peoria, AZ

Structural Engineer responsible for checking and quality control for the design of miscellaneous drainage structures (RCBC, retaining walls, etc.).

Black Mountain Ramps SR51/SR101L; Arizona Department of Transportation, AZ

Structural Engineer responsible for concept development and final design of a 5-span AASHTO girder ramp bridge over an active urban freeway under the CMAR delivery method.

SR 24 Gateway Freeway; Arizona Department of Transportation, AZ

Structural Engineer responsible for the design of a 2700-foot post tensioned box girder flyover bridge.



BERMAN TIJERINO, E.I.T.

Engineer-In-Training II

Stanley Consultants

4 Years of Experience 4 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, Arizona State University

Master of Science in Engineering, Civil and Environmental Engineering, Arizona State University

Professional Registration

Engineer-in-Training: AZ #12146

Professional Societies

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Berman is a Water Resources EIT responsible for watershed delineation, catch basin location, storm drain network design, and storage routing of detention basins. He has also prepared pipe summary sheets, quantities and mater drainage reports. His drainage analysis implements software such as StormCAD, FlowMaster, CulvertMaster and ArcGIS. Berman is proficient on both Microstation/InRoads and AutoCAD Civil 3D.

PROJECT EXPERIENCE

South Mountain Freeway, Connect 202L; ADOT; Phoenix, AZ USA

Drainage Designer responsible for pavement drainage design for the Dobbins, Baseline, Southern and Broadway traffic interchanges. The drainage design involved spacing inlets based upon spread criteria, laying out the storm drains and sizing the pipes via StormCAD. Due to the large volume of pipes and short time frame, InRoads Storm and Sanitary was utilized to profile the storm drain systems. A critical issue along the Segment C portion of the project was to minimize utility conflicts. This was achieved by reducing the number of pipes crossing utility corridors at each traffic interchange along Broadway Road; crossings were completely avoided. To help organize and standardize the storm drain summaries throughout the project, Berman was tasked to create an excel spreadsheet to be distributed to the other partners participating in the project. Stanley Consultants is part of a team responsible for design and construction of the South Mountain Freeway Connect 202L Project. This is a 22-mile freeway that will provide a long-planned direct link between the East Valley and West Valley, Phoenix, AZ, and a much-needed alternative to Interstate 10 through downtown Phoenix. The project will provide a high-capacity freeway with four lanes of traffic in each direction including HOV lanes, rubberized asphalt, multi-use trail, access-controlled interchanges and aesthetics that reflect the nearby communities.

Northern Parkway, Dysart Rd to 111th Ave; MCDOT; Glendale, El Mirage, Peoria, AZ

Drainage Designer responsible for reviewing spacing of catch basins and checked the spread calculations performed in StormCAD. Used InRoads to model and create DTM's for the 127th Ave Hanson Channel, the Dysart to 135th Avenue Ditch, the El Mirage SE Basin and the 112th Avenue Basin. He performed earthwork calculations for all drainage features. Berman calculated the first flush requirements and showed all first flush basins were sufficient. He also calculated the quantities for the box culverts, storm drains and other various drainage features. This project includes the final design and construction plans, specifications, and estimates for the Phase II Northern Parkway, Dysart Road to 111th Avenue project.

The project is in Maricopa County on Northern Parkway, between Dysart Road and 111th Avenue within the jurisdictional areas of the Cities of Glendale, El Mirage and Peoria. The Phase II work consisted of constructing frontage roads and ramp intersections; crossroad improvements at Dysart Road; and El Mirage Road; a bridged crossing of the Agua Fria River; and an interim reconnection of the Northern Parkway facility with existing Northern Avenue at 111th Avenue.

Work included excavation, constructing embankment, grading, both Portland Cement Concrete Pavement, CRCP Pavement, fissure mitigation, asphaltic concrete pavement,

BERMAN TIJERINO, E.I.T.

bridge structure, reinforced concrete box culvert, concrete barrier, drainage storm drains, channels, water quality basins and retention basins, new waterlines for Glendale and El Mirage, pavement marking, signing, lighting and other related work.

Central Avenue Traffic Study; City of Avondale; Avondale, AZ

Drainage Designer responsible for updating the pavement drainage areas to the adjusted roadway. He reviewed/updated the spacing of catch basins and spread calculations. Berman also performed the hydraulic design of the storm drain network via StormCAD.

McDowell Storm Drain Design On-Call; City of Avondale; Avondale, AZ

Drainage Designer responsible for updating the pavement drainage areas to the adjusted roadway. He reviewed/updated the spacing of catch basins and spread calculations. Berman also performed the hydraulic design of the storm drain network via StormCAD.

SR 89-SR 89A to South Chino Limits; ADOT

Drainage Designer responsible for updating drainage plans to 100%. Pavement hydraulics were updated via Flowmaster. Layout of inlets were based upon first flush volumes available at outfall and not necessarily spread. Responsible for design of first flush ditches in limited R/W space. InRoads was used to create digital terrain models of each ditch to be integrated in roadway design surfaces. The project designed full reconstruction of SR 89, from MP 320.4 to MP 325.1, to a four-lane divided section. The project included two roundabout intersections and a new local access road to the Prescott Airport, Deep Well Ranch Road. Stanley led the design of the onsite and offsite drainage improvements for this stretch of SR 89. This included channels, closed storm drain systems, pipe culvert extensions, and reinforced concrete box culvert extensions. The project included extensive utility coordination and relocation, an effort led by Stanley Consultants. There were multiple APS power pole relocations, five miles of CenturyLink fiber optic duct bank relocation, and gas line relocation. The project required detailed sequencing plans to optimize earthwork operations and minimize borrow costs. Stanley also completed all the signing and pavement marking plans, sequencing and traffic control plans, and roundabout lighting plans.

I-17 DCR and EA, Black Canyon to SR 69; ADOT

Hydrology/Hydraulics Engineer responsible for reviewing and updating the hydrology and hydraulics of culverts along I-17 from Black Canyon City to SR69. Sub-Basin delineations were checked and if any were missing, were re-delineated. High/low elevations were checked using USGS topographic maps and flow paths were reviewed for correctness. New soil data was obtained and used to update the values for rational runoff coefficients and green and ampt rainfall loss parameters. Rational Method and HEC-1 calculations were updated to obtain new flows. CulvertMaster was used to perform the culvert hydraulics for the updated discharge values. Berman also reviewed and updated the text of the drainage report, as well as created and compiled the appendices of the report. This study developed and evaluated corridor widening and realignment alternatives for I-17, as well as interim (short-term) improvements, to improve traffic operations and to accommodate projected traffic volumes in the 2030 design year. I-17 is a four-lane divided rural highway that traverses mountainous to rolling terrain. Since no convenient alternate route exists, accidents that occur in the mountainous terrain frequently cause closures of I-17 and result in lengthy travel delays. Eight new freeway corridors up to 22 km long and six lane configuration scenarios were created and evaluated for engineering, environmental, and socioeconomic impacts.



DAN SHIOSAKA, P.E., S.E.

Associate Chief Structural Engineer

Stanley Consultants

40 Years of Experience 25 Years with Stanley Consultants

Education

Master of Science, Civil Engineering, California State University-Fullerton

Bachelor of Science, Civil Engineering, California State University-Fullerton

Professional Registration

Civil Engineering: CA #32184

Civil Engineering: AZ #14083

Civil Engineering: NV #10009

Civil Engineering: AR #8934

Structural Engineering: CO #31227

Structural Engineering: AZ #30564

Structural Engineering: FL #50931

Structural Engineering: WY #8154

Structural Engineering: MT #12798

Civil Engineering: ID #11186

Structural Engineering: UT
#309947-2203

Civil Engineering: MN #48269

Civil Engineering: LA #37536

Structural Engineering: IA #21708

Structural Engineering: ND #8927

Professional Societies

- » Member - Precast/Prestressed Concrete Institute
- » American Society of Civil Engineers.

Dan is a licensed engineer in 13 states and brings over 40 years of experience in the design of bridges, bridge widening/reconstruction and bridge rehabilitation projects, including application of LRFD design standards. He is a recognized expert in bridge design and construction techniques, including Accelerated Bridge Construction (ABC) methods and Prefabricated Bridge Elements and Systems (PBES) techniques and has served on over 30 formal Value Engineering Analysis teams developing innovative and cost effective structural solutions. Major projects have included bridges utilizing precast prestressed concrete girders, post-tensioned cast-in-place concrete box girders, welded steel plate girders, and welded steel box girders. His experience includes structures for Arizona, Iowa, Hawaii, Nevada, Utah, Idaho, and Arkansas DOTs, Illinois State Toll Highway Authority, and CalTrans.

PROJECT EXPERIENCE

Northern Parkway, Dysart Road to 111th Avenue; MCDOT; Maricopa County, AZ

Structures Design Manager for the 2.5 miles extension of the Northern Parkway. Northern Avenue, mainly a two-lane road corridor, was expanded to a six-lane freeway. New service interchanges with overpass bridges were added at Dysart Road and El Mirage Road and a new five-span AASHTO girder structure provided a much-needed bridged crossing of the Agua Fria River. The design basis was standard ADOT/AASHTO criteria with additional corridor-specific criteria. The new river bridge was constructed in its entirety by shifting Northern Avenue to a paved low water crossing detour north of the new bridge. Piers and drilled shafts were designed for scour; abutments are sheltered by new spur dike bank protection.

Northern Parkway Reems Road Overpass; MCDOT; Maricopa County, AZ

Design Manager for structures for this step-by-step implementation measure to build some of the Northern Parkway mainline freeway and entrance/exit ramps ahead of the bridges. Two bridges were designed and built under one construction contract – Litchfield Road Traffic Interchange Overpass and Reems Road Traffic Interchange Overpass. Dan's responsibilities included coordinating the Reems Road design with another's consultant's Litchfield Road design, and joint packaging the plans and specifications under one schedule. The Reems Road bridge used precast AASHTO girders for faster bridge construction. The first span crosses over a shallow reinforced concrete box culvert that could not sustain additional dead load from embankment fill. The second and third spans are over Reems Road southbound and northbound.

PM 10 Roads Phase 2; MCDOT; Phoenix, AZ

Structural Designer. Stanley Consultants provided on-site resident services, contract administration, survey, quality assurance testing, and all documentation for improvements to multiple remote sites in the Southwest Valley. The work consisted of irrigation, water and storm drain improvements, and subgrade preparation followed by installation of a soil cement base course covered with layers of low volume and high volume chips. Miscellaneous improvements included fencing, signage and coordination with the County's community relation liaison.

DAN SHIOSAKA, P.E., S.E.

10th Street Wash Detention Basin Feasibility and Design; FCDMC; Phoenix, AZ

Structural Engineer for design of an inlet structure, outlet structure and floodway as part of urban stormwater detention basin. Structural aspects of this 1,000 cfs flood control project included about 1,200 cu yd of concrete and 92,000 lbs of reinforcing dual-weir tributary inlets, a 12-foot high by 330-foot long flood wall, and various reinforced concrete outfall and retaining wall structures.

El Mirage Road; MCDOT; El Mirage, AZ

Structural Engineer. This project consisted of the design of El Mirage Road from the existing two-lane roadway section to a four-lane initial and six-lane ultimate section from Bell Road to Beardsley Road, approximately 2 miles. The new roadway is located 200 m (650') east of the existing roadway with a connection to Beardsley Road. The roadway consists of one 4.2 m (14') and two 3.6 m (12') traffic lanes and a 1.8 m (6') bike lane in each direction separated by a 9.2 m (30') median. Left turn and right turn lanes were provided at the Bell Road and Beardsley Road intersections along with traffic signalization. The existing McMicken Dam Outlet Wash was relocated to the east side of the new roadway. Drainage culverts were provided under the Beardsley Road extension and the new El Mirage Road to convey storm water runoff from Sun City West to the Agua Fria River.

SR24 Williams Gateway Freeway System Interchange; ADOT; Mesa, AZ

Structural management of a four-level fully directional urban freeway TI which includes nine major roadway bridges consisting of four multi-span directional flyover ramp bridges, four other multi-span AASHTO girder bridges, and widening of an existing box girder bridge.

107th Avenue RID Canal Crossing; City of Avondale; Avondale, AZ

Lead Structural Engineer for the widening of this canal bridge. 107th Avenue was restricted at the canal crossing. The road tapered from three lanes down to one to cross the canal. This project was fast tracked to complete the design and construction in less than six months.

Neely Road Lift Station and Storm Water; Town of Gilbert; Gilbert, AZ

Served as Project Structures Engineer for the design and construction of a new wastewater lift station in an initial phase and a new intake structure and stormwater pump station in a second phase.

Sonoqui Wash Bridge Roadway and Corridor Study; Town of Gilbert; Gilbert, AZ

Structures Design Manager for a "Super Reinforced Concrete Box Culvert" over the Sonoqui Wash and widening of the Queen Creek bridge.

Pedestrian Bridge; City of Chandler; Chandler, AZ

Designed median pier for future Galveston Street Pedestrian Bridge. Coordinated with subconsultant to determine four possible superstructure alternatives.

Baseline Road Improvement; City of Tempe; Tempe, AZ

This project generally consists of replacing the existing bridge over the Salt River Project's Western Canal along Baseline Road within the City of Tempe. The project will also include restructuring the intersection of Baseline Road and Kyrene Road where Kyrene connects to baseline on the south side. The project limits extend approximately 300 feet west of this intersection to approximately 300 feet east of the Western Canal Bridge and extend 300 feet south of Baseline Road along Kyrene Road. Improvements include reconstructing the pavement section, curb and gutter, sidewalk, driveways, new bus bay, and drainage system modification.

Agua Fria Drainage Channel; ADOT / FCDMC; Phoenix, AZ

Project Structural Engineer responsible for designing two 25-foot span roadway bridges for 41st Avenue and a private drive over the north storm water channel for this trapezoidal channel drainage system near Skunk Creek and Scatter Wash north of SR 101L Agua Fria Freeway. Precast, prestressed concrete slabs were used because of limited headroom.



CHRIS D'ARCANGELIS, P.E.

Senior Water Resources Engineer

Stanley Consultants

31 Years of Experience 16 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, University of Texas-Arlington

Associate of Applied Science, Survey/Mapping, State University of New York-Alfred

Professional Registration

Civil Engineering: AZ #26313

Civil Engineering: UT #5214156-2202

Civil Engineering: CO #PE.0053601

Professional Societies

- » American Public Works Association and Society of American Military Engineers - Member.

Chris is a Senior Water Resources Engineer and has over 30 years of specialized experience in surface water hydrology, hydraulic analysis, and design of channels, detention/retention basins, box culverts, storm drains, hydraulic structures, and erosion control on flood control, transportation, and infrastructure projects. Chris has particularly strong skills in hydraulic analysis, computer modeling and design, and preparation of final plans, specifications, and estimates. He has served as project manager and drainage design engineer on a multitude of projects with various agencies, cities, and municipalities in Arizona including: Casa Grande, Avondale, Chandler, Scottsdale, Sierra Vista, ADOT, ASU, FCDMC, MCDOT, Mohave County, Yuma County, and Pinal County. Chris's assignments involved the implementation of computer packages including HECRAS, FLO-2D, StormCADD, HEC-1, HEC-2, HY8, CulvertMaster, Flowmaster, TR20, and TR55.

PROJECT EXPERIENCE

McDowell Storm Drain Design On-Call; City of Avondale; Avondale, AZ

Project Manager responsible for leading the design of the onsite storm sewer systems for 3/4 mile of roadway improvements along McDowell Road. Coordinated design efforts with the City of Avondale and prime consultant for the project. Stanley provided the hydrologic and hydraulic analyses for the storm drain systems along a 1.5 mile stretch of McDowell Road from the Agua Fria River bridge to 114th Avenue. Hydrologic analysis was accomplished by using the Rational Method. A site specific Rainfall Intensity- Duration-Frequency tabulation was generated for the design storm. Hydraulic analysis was performed to determine spread width on pavement areas and inlet performance. Hydraulic analysis was in accordance with the City of Avondale requirements. Pavement runoff is collected by catch basins and/or scuppers and directed to existing outfall locations along McDowell Road. Linear detention or retention basins were designed to handle pavement stormwater runoff. Hydraulic analysis of the storm drain systems was performed using StormCAD.

STWTP SW Mitigation; City of Tempe, AZ

Project Manager responsible for providing the overall coordination efforts with the City of Tempe and leading the design efforts for the project. The project involved the drainage analysis for the South Tempe Water Treatment Plant (STWTP) site located at 6600 S. Price Road. The City requested Stanley Consultants to evaluate the drainage issues in this area, propose economical solutions to mitigate the storm water concerns, and to generate construction plans and documents for the recommended solution(s). Hydrologic and hydraulic information reviewed included drainage reports, memoranda, and other documents pertaining to the project area. Stanley conducted a field reconnaissance to confirm flow paths, evaluate contributing watershed, and to review topography. A detailed field survey was completed for this project. Hydraulic analysis was accomplished with StormCad, CulvertMaster, and Flowmaster. A Draft and Final Alternatives and Drainage Memorandum were prepared. The Draft and Final Alternatives & Drainage Report documented the various alternatives with recommendations and an opinion of probable cost for each. It contained the design criteria and engineering methodologies used as well as vicinity and project maps, the

CHRIS D'ARCANGELIS, P.E.

results of the hydrologic and hydraulic analyses, provide supporting calculations, supporting sketches, references, and present photos of existing site conditions.

Elevation Certifications; Pinal County, AZ; Pinal County Department of Public Works

Project Manager responsible for contract management and overall schedule and coordination with the client. Directed Stanley Consultants' survey crews for obtaining elevations and field data. During the two-year project, Stanley Consultants completed approximately 110 elevation certificates for the County.

Valle Vista Bend Erosion Structure; Mohave County, AZ; Mohave County Flood Control District

Project Manager responsible for erosion control measures at Valle Vista Country Club and Golf Course located in Mohave County. Stanley was contracted by Mohave County to generate permanent engineering solutions to repair the erosion occurring at five bend locations in the channels. Stanley Consultants developed three alternative solutions with budgetary cost estimates. Due to limited funding Stanley worked with the County to determine the preferred alternative for implementation. A Final Drainage Memo was prepared to document the drainage analysis in support of the final project plans. Channel Plans were developed to depict the proposed channel plan locations, existing ground data and top and toe of channel lining elevations. Stanley Consultants prepared detailed cost estimates for project submittals and project specifications based on MAG and ADOT specifications.

Gilbert Road Bridge Scour On-Call; Maricopa County, AZ; MCDOT

Project Manager responsible for checking the scour calculations and hydraulic analysis associated with the existing 20 span, 1,300 feet long, Gilbert Road bridge over the Salt River. Scour analysis was performed using HEC-18, Evaluating Scour at Bridges to determine the local hydraulic characteristics of the Salt River and the stability of the bridge for the 5, 10, 25, 50, and 100-year storm events. Several scour components were analyzed including general, bend, local, pier, abutment, bed-form as well as long term degradation. Tasks included field reconnaissance, review of hydraulic models, and preparation of the Final Scour Bridge Scour and Stability Report.

On-Call Tuthill Road Bridge Scour; Maricopa County, AZ; MCDOT

Project Manager responsible for developing the scope of work by meeting with the MCDOT project manager and bridge engineer for scour analysis of the existing Tuthill Road Bridge crossing the Gila River. Scour analyses were performed to help determine the stability of the existing bridge during the 100-year and 500-year return events. Scour calculations included local scour and abutment scour. Complex pier scour was also evaluated due to the pier configuration. The piers were configured with concrete columns resting on pier caps founded on H-piles. The scour estimates were documented in a bridge scour report.

90th Street Improvements, McDowell Road; Maricopa County, AZ; MCDOT

Project Manager responsible for leading the design of roadway and drainage improvements for the 90th Street vertical realignment north of McDowell Road. The objective of the project was to realign 90th Street to create a sag vertical curve and ford to make sure that major wash flows cross the roadway while maintaining improvements within the current right-of-way. The project included design of rural roadway elements with cross sections and drainage improvements that include an earthen dike, riprap energy dissipater, and culvert. Stanley Consultants was responsible for review of the hydrology and hydraulic analysis for the ford crossing, channels, and pipe culvert.

Union Hills/99th Avenue Work Assignment A; Peoria, AZ; MCDOT

Drainage Engineer for a project to analyze the intersection of Union Hills and 99th Avenue for existing conditions, evaluating and developing three alternative improvements for existing and future traffic volumes as an isolated intersection, and assessing alternatives in a coordinated signal system along 99th Avenue.

Northern Parkway, Dysart Road to 111th Avenue; Maricopa County, AZ; MCDOT

Lead Drainage Engineer for the final design and construction plans, specifications, and estimates for the Phase II Northern Parkway, Dysart Road to 111th Avenue project. Chris was responsible for leading the final design to optimize drainage improvements that included scour protection for the bridge piers; spur dikes for bridge abutments along the Agua Fria; storm water conveyance channels; retention basins; onsite storm drain systems; box culverts; and water quality basins.



SCOTT BUCHANAN, P.E.

Principal Water Resources Engineer

Stanley Consultants

41 Years of Experience 27 Years with Stanley Consultants

Education

Bachelor of Science, Hydrology,
University of Arizona

Professional Registration

Civil Engineering: AZ #26837

Civil Engineering: NV #011215

Certified Floodplain Manager:
#US-04-01313

Professional Societies

- » Member - Arizona Floodplain Management Association (AFMA).
- Member - Association of State Floodplain Managers (ASFPM)

Scott has specialized experience in surface water hydrology, hydraulic analysis, design of channels, detention / retention basins, box culverts, storm drains, roadway drainage systems, hydraulic structures, erosion control and SWPPPs. His expertise includes computer modeling utilizing HEC-1, HEC-2, HEC-RAS, StormCAD, HYDRAIN, and applications of ADOT's Pavement Drainage Analysis program. His experience also includes 10 years with the Flood Control District of Maricopa County, Arizona, where his responsibilities included managing the Floodplain Section of the Hydrology Department. He has experience working with government agencies including the U.S. Army Corps of Engineers, FEMA, AZ Department of Water Resources, AZ State Land Department and Federal Bureau of Land Management.

Scott has managed and coordinated projects involving design of regional flood control facilities, development of regional-sized area drainage master plans, floodplain delineation studies including CLOMRs and LOMRs, drainage studies and design of numerous types of drainage improvements, stormwater master plans for land development and other private improvement projects, and development of feasibility investigations, candidate assessment reports, cost estimates and associated documentation.

PROJECT EXPERIENCE

Lower Agua Fria River Floodplain Delineation Study; FCDMC; Maricopa County, City of Avondale and City of Phoenix, AZ

Project Manager for a detailed Zone AE floodplain delineation, with floodway, for the lower 10 miles of the Agua Fria River based on current effective flow rates. Stanley was part of a multi-consultant levee certification team working in unison for the FCDMC. The certification was to FEMA under 44 CFR 65.10. Stanley Consultants provided the hydraulic analysis that other consultants used for their levee certification documents including evaluation of freeboard. The study met all the guidelines and requirements of the FCDMC, ADWR State Standards and FEMA. Elements of the study included data collection and field survey, final HEC-RAS model, Technical Data Notebook (TDN) and the floodplain work maps for a LOMR submittal to FEMA. Both phases of FEMA review went very well with no review comments returned or revisions needed. Stanley completed the study with a GIS data delivery submittal.

Coldwater Springs Master Planned Residential Development; Pollack / Ramras Company; Avondale, AZ

Scott was responsible for the master drainage report including HEC-1 and HEC-2 analysis of on-site and off-site infrastructure improvements in accordance with FCDMC, FEMA and City of Avondale requirements and based on FCDMC's regional area drainage master study model. Coldwater Springs is a 675-acre master planned residential development adjacent to the Agua Fria River channel and USAC / FCDMC soil cement levees. It is subject to an off-site local drainage area of over 15 square miles. Local storm runoff forms a ponding floodplain on the property along the back-side of the Agua Fria River's east levee. Included was design of stand-alone plans for a new 3 x 48" pipe outfall with flap gates at the Agua Fria River east soil cement levee just north of the Union Pacific Railroad. The design

SCOTT BUCHANAN, P.E.

involved FCDMC / Corps of Engineers review and permitting and Corps 404 / 401 permitting coordination. The new pipes added capacity to the existing 3 x 36" pipes at that location.

Sonoqui Wash Phase IIB; Town of Queen Creek; Queen Creek, AZ

Project Manager for one mile of a regional flood control channel updating the original design plans developed in 2009-2012 for lead agency FCDMC. Scott also served as project manager for the original design. The design update included specifications and cost estimate, bidding the project and post-design services. Tasks included HEC RAS analysis of inundation limits for the upstream channel reach to determine how the design flow of 2,100 cfs, which was spread out over a width of about one-half mile, could be captured and conveyed into the new channel. Other tasks included a design memorandum, numerous utility relocations and coordination of the cultural resources sub-consultant responsible for mitigation of a major Native American archaeological site in the path of the new channel.

Berneil Channel Candidate Assessment Report; Town of Paradise Valley, AZ

Project Manager responsible for investigating alternatives to improve channel capacity. Berneil Channel is the drainage outfall through the Town of Paradise Valley for an urbanized contributing area of about 10 square miles with a 100-year discharge estimated at 3,000 cfs. The project includes an assessment of feasibility, cost and benefit and also involved public meetings. It used the regional HEC-1 hydrology established in the Scottsdale Road Corridor Drainage Master Plan, recently completed by Stanley Consultants for FCDMC, Phoenix, Scottsdale and Paradise Valley, for which Scott also served as project manager. New aerial mapping supplemented by ground survey was acquired along with utility records investigation. Each alternative was evaluated with HEC RAS hydraulic backwater analysis. Alternatives were presented to Paradise Valley Town Council and also to residents at public involvement meetings.

Reata Pass Dam; City of Scottsdale, AZ

Project Manager for regional HEC-1 hydrology, hydraulics, alternatives analysis and design plans, specs and estimate for replacement of an existing deteriorating facility. The selected alternative involved an upper below-grade basin combined with a lower impound created by a new 18 foot high earth dam. The new dam replaced an old embankment which was deteriorating, had no design documentation and did not meet current design criteria. It incorporated a sand core, storage of about 31 acre-feet, a 60-inch diameter primary spillway pipe under the new dam and a riprap/gabion emergency overflow spillway. The new dam required an aesthetic curvilinear layout compatible with a surrounding future city park. Although non-jurisdictional in size, the new dam was designed in accordance with ADWR criteria.

South Phoenix Two Basins Project; FCDMC / City of Phoenix, Maricopa County and Phoenix, AZ

Project manager responsible for production of plans, specifications and estimates for the design of two regional stormwater detention basins in the South Phoenix area. Basin design included both irrigated landscaping and aesthetic contouring. These basins are components of the South Phoenix / Laveen Drainage Improvement Project which was developed to a concept level in the late 1990's. The overall regional plan consisted of interconnected regional stormwater basins and large diameter storm drain trunk lines which intercept drainage from the Phoenix South Mountains and provide flood protection to the area between South Mountain Park and the Salt River. In addition to the design phase, this project included an extensive update of the regional HEC-1 hydrology model involving new survey and aerial mapping, re-analysis of existing regional basins and storm drains, hydrologic and feasibility investigation of numerous additional future regional basins and storm drains and a complex dynamic hydrology / hydraulic analysis using SWMM 5.0 of the Baseline Road regional storm drain trunk line.



JOEL MCCARTY, P.E.

Senior Water Resources Engineer

Stanley Consultants

21 Years of Experience 11 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, Northern Arizona University

Professional Registration

Civil Engineering: AZ #36657

Certified Floodplain Manager: -
#US-10-05103

Professional Societies

» Association of State Floodplain Managers, 05/03/2010 - 12/31/2015

Joel has more than 21 years of professional engineering experience in hydrology and civil engineering design for both public works and private land development projects. His responsibilities have included hydrologic and hydraulic analysis; design of channels, storm drains, and detention basins; and utility relocation, quantity calculations, cost estimating, and preparation of final plans, specifications, and cost estimates. He is accomplished in the application of HEC-1, HEC-RAS, Inroads, ArcView, and MicroStation in the design of flood control facilities. His experience also includes preparation of U.S. Army Corps of Engineers 404 delineation reports for private sector developments and storm water master plans for master planned residential communities.

PROJECT EXPERIENCE

McDowell Storm Drain Design On-Call; City of Avondale; Avondale, AZ

Drainage Engineer responsible for the design of drainage improvements and preparing construction documents for roadway improvements of McDowell Road from Agua Fria River to 119th Ave. Improvements included catch basins and storm drains, scuppers, and detention basins along both roadway frontages. Joel performed the hydrologic and hydraulic analyses for the storm drain systems along a 1.5 mile stretch of McDowell Road from the Agua Fria River bridge to 114th Avenue. Hydrologic analysis was accomplished by using the Rational Method. A site specific Rainfall Intensity- Duration-Frequency tabulation was generated for the design storm. Hydraulic analyses was performed to determine spread width on pavement areas and inlet performance. Hydraulic analysis was in accordance with the City of Avondale requirements. Pavement runoff is collected by catch basins and/or scuppers and directed to existing outfall locations along McDowell Road. Linear detention or retention basins were designed to handle pavement stormwater runoff. Hydraulic analysis of the storm drain systems was performed using StormCAD.

Northern Pkwy Dysart Rd TI; Maricopa County Department of Transportation; Maricopa County, AZ

Water Resources Engineer. Stanley Consultants designed a six-lane grade separated crossing of Northern Parkway over Dysart Road. Included in this project was the design of about one mile of mainline parkway from the terminus of the existing parkway to the ramps of the future El Mirage Road TI. All engineering services were performed to prepare construction documents for the bidding of this project. This included construction plans, specifications, special provisions, drainage reports, environmental document updates and coordination, field surveys, geotechnical reports, construction quantities, earthwork calculations, construction cost estimates, utility coordination and the preparation of all bid documents to complete the project. Specific services provided were structural design, roadway design, drainage design, lighting design, pavement design and contributing to public meetings.

JOEL MCCARTY, P.E.

McCartney Road At-Grade Crossings; Pinal County Department of Public Works; Pinal County, AZ

Water Resources Engineer responsible for design oversight and plan preparation for five culverts. Joel guided staff in sizing and locating the culverts and then creating plans for the culverts. He also oversaw the drainage report and cost estimate preparation.

South Mountain Freeway; Arizona Department of Transportation; Phoenix, AZ

Water Resources Engineer responsible for the design of both onsite and offsite urban freeway drainage systems for a proposed 7-mile section. The offsite design required the review and update of regional hydrology, design of channel conveyance systems, and regional detention basins. The onsite design included urban freeway inlet design, storm drain systems, and stormwater design options for a 3,700-foot bridge.

South Phoenix Laveen Drainage Improvements; Flood Control District of Maricopa County; Phoenix, AZ

Water Resources Engineer responsible for the development of hydrology for seven identified flooding hazard areas within the South Phoenix watershed. The study included field work, review of existing studies, and development of local flows. The hydrology was then documented in a report for County staff to review.

Northern Parkway, Dysart Road to 111th Ave; Maricopa County Department of Transportation; Glendale, El Mirage, Peoria, AZ

Water Resources Engineer. This project included the final design and construction plans, specifications, and estimates for the Phase II Northern Parkway, Dysart Road to 111th Avenue project. Work included excavation, constructing embankment, grading, both Portland Cement Concrete Pavement, CRCP Pavement, fissure mitigation, asphaltic concrete pavement, bridge structure, reinforced concrete box culvert, concrete barrier, drainage storm drains, channels, water quality basins and retention basins, new waterlines for Glendale and El Mirage, pavement marking, signing, lighting and other related work.

South Phoenix Two Basins; Flood Control District of Maricopa County; Phoenix, AZ

Project Engineer responsible for analysis of existing large diameter storm drain system that operates as a surge system. Analyzed the system utilizing both EPA SWMM and HEC-RAS with lid. Developed alternatives for conveyance of 100-year storm water runoff to regional detention facilities.

Hohokam Area Drainage MSP; Flood Control District of Maricopa County; Phoenix, AZ

Project Engineer responsible for assisting in the development of FLO-2D models for a 27-square mile watershed located along the northern face of South Mountain in the City of Phoenix. Models were developed for both the existing condition as well as future condition development. The FLO-2D models include modeling the storm drain network within the area that the City of Phoenix provided in GIS format.

Dysart Road On-Call; Maricopa County Department of Transportation; Maricopa County, AZ

Project Engineer responsible for preparing a design concept report (DCR) for approximately three miles of Dysart Road which is a major arterial roadway. The DCR estimated storm water runoff along the roadway from within the right of way and proposed a system to handle the runoff. An investigation was also done for the off-site runoff.

Sonoqui Wash Channelization II; Flood Control District of Maricopa County; Maricopa County, AZ

Project Engineer during the pre-design phase of the project. Developed several alternatives for the following items: location of the confluence of the Main Branch and East Branch of Sonoqui Wash, alignment of Sonoqui Wash along Riggs Road downstream of the confluence, and potential design modifications for Phase I of Sonoqui Wash to increase conveyance capacity. Each study included preliminary hydraulic analysis, cost estimates and lists of benefits and constraints to assist the stake holders in determining a preferred alternative.



SCOTT RASMUSSEN, P.E.

Principal Water Resources Engineer

Stanley Consultants

24 Years of Experience 18 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, Northern Arizona University

Professional Registration

Civil Engineering: AZ #32845

Professional Societies

» Member - Arizona Floodplain Management Association (AFMA); and Engineers Without Borders.

Scott's professional experience includes urban freeway drainage, rural highways and municipal drainage projects. Responsibilities include channels, storm drains, detention basins, geometrics, earthwork, utility relocation, quantity calculations, cost estimating, preparation of final plans, specifications and special provisions. He is skilled in the application of InRoads, HEC-RAS, HEC-1 and CADD in the design of channels, storm drains, detention basins and roadways.

PROJECT EXPERIENCE

Northern Parkway, Dysart Rd to 111th Ave; MCDOT; Glendale, El Mirage, & Peoria, AZ

Drainage Engineer This project includes the final design and construction plans, specifications, and estimates for the Phase II Northern Parkway, Dysart Road to 111th Avenue project. Scott was responsible for the design of drainage design elements for this 2.5 miles of urban parkway that included catch basins, storm drain pipe systems, channels, and energy dissipators.

Gilbert Road Bridge Scour On-Call; Maricopa County Department of Transportation, AZ, US

Hydraulics Engineer responsible for providing river hydraulics, local bridge scour analysis, and pier scour estimates based on flow increments for comparison with associated structural load ratings. The results provided enabled MCDOT to determine at what river flow the bridge should be closed to traffic. Stanley Consultants performed the scour calculations and hydraulic analysis associated with the existing 20-span, 1,300-foot long, Gilbert Road bridge over the Salt River. Scour analysis was performed using HEC-18, Evaluating Scour at Bridges to determine the local hydraulic characteristics of the Salt River and the stability of the bridge for the 5, 10, 25, 50, and 100-year storm events. Several scour components were analyzed including: general, bend, local, pier, abutment, bed-form as well as long term degradation. Tasks included field reconnaissance and preparation of the Final Scour Bridge Scour and Stability Report.

Letters of Map Amendment/Revision (LOMA/LOMR); Maricopa County, AZ

Responsible for the preparation and approval of over a half-dozen LOMAs and LOMRs from the Federal Emergency Management Agency in Maricopa County. Projects involved elevation certificates and as-builts, revisions in flow rates, water surface elevation, floodplain and floodway limits, and revisions in the flood zone.

Waterman Wash Hydrology Study; FCDMC; Maricopa County, AZ

Lead Hydrologist for hydrologic evaluations, computer modeling utilizing HEC-1, and preparation of final hydrology report for over 400 square-miles of watershed associated with Waterman Wash.

Delineation of Spillway Flows for Buckeye Flood Retarding Structures 1, 2 and 3; FCDMC, AZ

Study Manager for hydraulic analysis and delineation of flood limits for over 14 miles of floodplain, using both HEC-2 and HEC-RAS computer analysis, and preparation of a

SCOTT RASMUSSEN, P.E.

technical data notebook and ArcInfo GIS coverages. Results of study provided flood limit depths, velocities and travel times for each spillway to use in emergency preparedness and flood warning.

Desert Hills Area Floodplain Delineation and Topographic Mapping; FCDMC, AZ

Study Manager for floodplain delineation/flood insurance study involving hydrologic and hydraulic analysis, field survey, aerial mapping and GIS data conversion. 24 washes were delineated with a total length of over 26 miles. This was one of the first studies using the (then new) HEC-RAS model.

Powerline Wash/Tank Wash Floodplain Delineation Study; FCDMC; Maricopa County, AZ

Study Manager for 16 river miles of floodplain delineation. Responsible for review of hydrology provided by the District, hydraulic backwater analysis utilizing HEC-2, floodplain delineation, final mapping, and final report in accordance with FEMA criteria. GIS data coverage was also provided.

On-Call Services; ADOT; Various Location, AZ

Drainage Engineer for various tasks assigned under this annual contract.

Country Club Drive FUTS at 1-40; ADOT; AZ

Drainage Engineer responsible for providing design and storm water pollution prevention plans for this Flagstaff Urban Trail project. Scott's expertise in erosion control and water quality measures enabled Stanley Consultants to provide ADOT with a one-stop consultant to meet drainage, erosion control, and water quality design requirements.

Page Roundabout: US 89-Haul Road; ADOT; AZ

Drainage Engineer responsible for developing final construction documents for this highway roundabout project. Scott's expertise in drainage design for large highway roundabouts enabled him to identify drainage issues and correct utility conflicts from the initial project plans. ADOT benefited from the project team's excellent documentation and organizational approach provided which helped revive this project that had been "on the shelf" and deliver it on time.

SR24 Gateway Freeway; ADOT; Maricopa County, AZ

Drainage Engineer for the SR 24 highway design project. This \$100 million award-winning project included the design of a four-level fully directional urban freeway TI; over a mile of new urban freeway; an interim half urban diamond TI; widening existing SR202L; and a half-mile of arterial roadway reconstruction. Scott was responsible for the analysis and design of a system of concrete channels and large regional detention basins. This drainage system had to be designed to function with this project as well as the proposed future freeway extension to the east. The drainage systems had to be designed for the interim and future offsite conditions. Other tasks included the design of a small inverted siphon with pumping station to dewater the siphon. Other design elements included several multi-cell reinforced concrete box culverts and storm drain systems.

On Call Tuthill Road Bridge Scour; Maricopa County Department of Transportation; AZ

Hydraulics Engineer for the scour analysis of the existing Tuthill Road Bridge. Scour analyses were performed to help determine the stability of the existing bridge during the 100-year and 500-year return events. Scour calculations included local scour and abutment scour. Complex pier scour was also evaluated due to the pier configuration. The piers were configured with concrete columns resting on pier caps founded on H-piles. The scour estimates and recommendations were documented for MCDOT in the bridge scour report - Tuthill Road Bridge over the Gila River Final Bridge Scour Report.

On-Call Services; FCDMC; Maricopa County, AZ

Drainage Engineer Scott's responsibilities included floodplain and drainage review of various planning and design projects for the Flood Control District. Specific tasks included review of drainage reports and plans associated with Drainage Master Plans, residential and commercial development, and requests for zoning changes. Job assignments included reviewing projects at the home office as well as dedicated hours of review at the Flood Control District office.



BARBARA SCHWAB, P.E.

Principal Transportation Engineer

Stanley Consultants

36 Years of Experience 23 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, Iowa State University

Professional Registration

Civil Engineering: AZ #19243

Civil Engineering: FL #72731

Civil Engineering: CO #46351

Civil Engineering: IA #21158

Civil Engineering: ID #15354

Professional Societies

» Member -- Institute of Transportation Engineers, Kansas Engineering Society; Past Vice President -- Arizona Society of Professional Engineers.

Barbara has 36 years of experience in transportation planning analyses and traffic engineering design. She has experience in the areas of signing, pavement marking, traffic signal design, roadway lighting, FMS, construction zone traffic control design, traffic forecasting, and several types of traffic engineering studies, including corridor, traffic impact, and environmental impact studies. Barbara has over 30 years of continuous experience in the design of ADOT freeway signing and pavement marking beginning with the I-10 inner loop in 1985. She has designed over 100 miles of ADOT freeway lighting including five system interchanges within the Phoenix Metropolitan Area. Barbara has served as the traffic engineering lead on the Northern Parkway, Reems Road project and the Northern Parkway Dysart Road to 111th Avenue project along with several ADOT freeway projects.

PROJECT EXPERIENCE

City of Avondale Street Light Conversion: City of Avondale, AZ

Barbara was the Project Manager and Lead Traffic Engineer providing technical assistance to City staff for the evaluation of LED lighting criteria for the conversion of the City's street lights to LED fixtures. Work tasks included analysis of existing HPS lighting and comparison to proposed LED systems, assistance with preparation of the contractor RFP, photometric analysis, technical review of the contractor's proposed luminaires and updating the City's Streetlight Design Guide based upon the new LED lighting system.

City of Goodyear Street Light Conversion: City of Goodyear, AZ

Barbara is the Project Manager and Lead Traffic Engineer providing technical assistance to City staff for the evaluation of LED lighting criteria for the conversion of the City's street lights to LED fixtures. Work tasks include analysis of existing HPS lighting and comparison to proposed LED systems, third party review of the Investment Grade Audit, photometric analysis, and updating the City's Streetlight Design Criteria and Standards based upon the new LED lighting system.

City of Phoenix Street Light Conversion: City of Phoenix, AZ

Barbara is the Project Manager and Lead Traffic Engineer providing technical assistance to City staff for the conversion of 100,000 street lights to LED. Work tasks include assistance with preparation of the contractor RFP, development of standards and specifications for LED fixtures, photometric analysis, technical review of the contractor's proposed luminaires and updating the City's Streetlight Design Guide based upon the new LED lighting system.

Northern Parkway – Dysart Road TI, MCDOT, Maricopa County, AZ

Traffic Engineer. Stanley Consultants designed a six-lane grade separated crossing of Northern Parkway over Dysart Road. Included in this project was the design of about one mile of mainline parkway from the terminus of the existing parkway to the ramps of the future El Mirage Road TI. All engineering services were performed to prepare construction documents for the bidding of this project. This included construction plans, specifications, special provisions, drainage reports, environmental document updates and coordination, field surveys, geotechnical reports, construction quantities, earthwork calculations, construction cost estimates, utility coordination and the preparation of all bid documents to

BARBARA SCHWAB, P.E.

complete the project. Specific services provided were structural design, roadway design, drainage design, lighting design, pavement design and contributing to public meetings.

Northern Parkway, Dysart Rd to 111th Ave; Maricopa County, AZ; MCDOT

Barbara is currently serving as the traffic design manager for this interim freeway project and is responsible for the traffic control, signing, marking, traffic signal, lighting and ITS plans.

SR 202L South Mountain P3; Phoenix, AZ, ADOT

Barbara managed the design and performed QC/QA for the signing, pavement marking, traffic control and lighting plans on this 7-mile segment. Stanley completed design for 7 miles (Segment C) of new urban freeway, which included seven new freeway interchanges, as part of the Connect 202 Partners.

LED Lighting Retrofit Project; Sarasota County, FL

Barbara was the Project Engineer for this project that evaluated five different light emitting diode (LED) manufacturer's fixtures to replace existing high-pressure sodium fixtures on ten arterial street corridors in Sarasota County. Each of the fixtures was evaluated based upon nationally recognized specifications for LED luminaires, luminaire efficacy, lamp lumen depreciation along with a history of use in similar climates. Lighting photometry was performed to determine the wattage, number of LEDs and lumen output that was required to meet the established design criteria for each corridor. The selected fixtures were compared based upon specifications, photometry, cost and energy efficiency and three fixtures were recommended for bidding on the project.

Gateway Freeway (SR 24), SR202L to Ellsworth Road; Arizona Department of Transportation, Mesa AZ

Barbara served as the Lead Traffic Engineer for this system interchange connecting SR 24 to the Santan Freeway and Ellsworth Road improvements. She lead the design of signing, pavement marking, traffic signal, MOT, FMS, and the crossroad and freeway lighting elements of this project.

Glendale Spring Training Facility; Phoenix/Glendale, AZ

Barbara served as the lead traffic engineer for the design of traffic signal modifications to three traffic signals, signing and pavement marking for Camelback Rd and Ballpark Blvd, and roadway lighting plans for Camelback Rd and Ballpark Blvd.

Lake Pleasant Parkway – Cibola Vista Drive to SR303L, Peoria, AZ

Barbara designed the roadway lighting for this 3-mile arterial street widening project in Peoria, AZ. The project also included a multiuse path underpass under Lake Pleasant Parkway. She designed the underpass lighting with LED light fixtures to meet the RP-8 requirements for pedestrian/bike facilities during both night time and day time conditions.

Traffic Safety On-Call Services; Arizona Department of Transportation, AZ

Stanley Consultants has underway or has completed the following task orders:

- » Beulah Boulevard Bike Lane Design – Barbara served as the lead traffic engineer on this project that provided a predesign scoping document and final design for adding bike lanes to 0.25 mile of Beulah Boulevard in Flagstaff, Arizona. The project includes removal of existing raised medians, new AC pavement, signing and pavement markings.
- » SR 95/Cienega Spring Road Intersection Improvements MP 149.2 – Barbara served as the lead traffic engineer on this project that provided a predesign scoping document, environmental clearance, and final design for an intersection improvement project on SR 95 in Parker, Arizona. The project included approximately one mile of widening on SR 95 in both directions to accommodate a new left turn lane from SR 95 to Cienega Springs Road. Design elements included roadway, drainage, construction sequencing, maintenance of traffic, signing and pavement markings.
- » SR 87, Slate Creek Curve & Truck Escape Ramp MP 226–MP 229 – Barbara led the traffic engineering design of this project that included predesign and final design for the NB and SB roadway curve realignment and reconstruction and a new truck escape ramp for the steep NB downgrade north of Sunflower.



BRIANNE TURPIN, P.E.

Senior Transportation Engineer

Stanley Consultants

12 Years of Experience First Year with Stanley Consultants

Education

Bachelor of Science in Engineering,
Civil Engineering, Northern Arizona
University

Professional Registration

Professional Engineering: AZ
#51481

Professional Societies

- » Woman's Transportation Seminar (WTS), Member since 2010, Role: Golf Tournament Committee Chair.
- » Institute of Transportation Engineers (ITE), Member since 2008.

BriAnne's experience includes traffic design, intersection improvement design, intersection and roadway operational studies, and safety assessment, analysis and design. Through her traffic engineering expertise, she has conducted site visits, analyzed collision data, and prepared reports for various RSA's and PA's. She has utilized the FHWA Highway Safety Manual and the Interactive Highway Safety Design Model (IHSDM) software to make recommendations to state, MPOs and other local agencies on vehicular, bicycle, and pedestrian safety improvements. BriAnne's responsibilities have also included the design of signing and pavement marking and traffic signal plans. Working on numerous safety projects, she understands that incorporating safety into the design will help to ensure a safe project in the end for all road users. BriAnne is an active member in the FHWA EDC-4 STEP Committee.

PROJECT EXPERIENCE

On-Call Traffic Services, Avondale, Arizona. City of Avondale

Traffic Engineer responsible for conducting a left-turn signal phasing warrant study at the existing intersection of Rancho Santa Fe Boulevard and McDowell Road to determine if protected left-turn phasing is warranted for the existing traffic in the vicinity. Responsibilities included analysis of existing traffic volumes, stopped-time delay for the left-turn movement and accident data collected as part of warrant study. The City has re-occurring events along Western Avenue between Central Avenue and Dysart Road. Traffic control plans detailing the necessary traffic control to coincide with closure of Western Avenue between Central Avenue and Dysart Road during various events were developed.

Strategic Transportation Safety Plan, Avondale, Arizona. Maricopa Association of Governments (MAG)

Traffic Engineer responsible for the development of the Avondale Strategic Transportation Safety Plan that identifies strategies to address local transportation safety and provide practical implementation guidance as well as a tool to prioritize funding of substantive road safety programs and projects. Responsible for obtaining, analyzing, and documenting crash data; participating in workshop to coordinate with stakeholder in the development of the City's vision, goals, and action areas; developing strategies and performance measures; developing a method for prioritizing Avondale's road safety needs; and developing an implementation plan that documented several candidate projects. In adherence to the Federal Highway Administration's (FHWA) Vision Zero Plan, the development of a comprehensive Strategic Transportation Safety Plan (STSP) established city-wide vision, goals, objectives, strategies, countermeasures, and performance measures for transportation safety.

Dysart/Rancho Santa Fe Project Assessment, Avondale, Arizona. Maricopa Association of Governments (MAG)

Traffic Engineer responsible for developing a Project Assessment for the intersection of Rancho Santa Fe Boulevard and Dysart Road in Avondale. Responsibilities included documenting existing conditions such as right-of-way, utilities, and traffic conditions. The PA evaluated the impacts of the installation of a northbound right-turn lane including estimated

BRIANNE TURPIN, P.E.

costs and a benefit cost ratio. A project assessment was prepared that included a project determination; background information and general description; project scope; and development considerations, such as environmental requirements, agency involvement, right-of-way and utility requirements, seasonal considerations, traffic requirements, alternatives, AASHTO criteria, and design speed comparisons. The PA recommended installation of a northbound right-turn lane and detectable warning surface to the pedestrian ramps on the northwest and southwest corners.

Intersection Improvement Studies; City of Peoria, Peoria, AZ

Traffic engineer responsible for the analyzing existing conditions, operational analysis, safety evaluation, alternative development, and evaluation and cost estimate for intersection improvements at 89th Avenue and Northern Avenue, 83rd Avenue and Chick-Fil-A Driveway, and Westwing Parkway/83rd Avenue and Jomax Road. Assisted in the coordination with the City and prepared documentation/graphics for and attended several progress meetings. A study was conducted for four intersections located within city limits that were being considered for improvements. The purpose was to identify what, if any, improvements would be needed to maximize the safety and level of service to the intersections and analyze the cost effectiveness of any recommended improvements. The studies included an evaluation of level of service (LOS); signal warrant analyses; crash data analysis; and development and analysis of alternatives, including traffic signals, raised medians, high-intensity activated crosswalk (HAWK), and others. Cost estimates were provided for improvements, utility relocations, and any right-of-way acquisition.

On-Call Traffic Services; City of Peoria, Peoria, AZ

Traffic Engineer responsible for quality assurance and quality control of the development of the traffic signal clearance intervals (red, yellow and pedestrian) for all 119 City operated traffic signals. Responsibilities included review of the Clearance Interval Policy which documented local agency industry standards and City of Peoria recommended methodology, review of clearance interval calculations, and identification of locations where walk times of 10 seconds are appropriate due to anticipated large platoons of pedestrians.

Access Management Manual; Pinal County Public Works Department, Pinal County, AZ

Traffic engineer responsible for the QA/QC of the access management technical memorandum which documented the development of access management standards for all County functional roadway classifications. Responsibilities also included the development of the County's 2016 Access Management Manual that documents the recommended access management standards for all functional roadway classifications. A stand-alone Access Management Manual was prepared for all street classifications in Pinal County. For the development of the manual, pertinent findings of all relevant local studies, plans, policies, and standards was obtained, reviewed, analyzed, and documented to formulate the principles and benefits of access management. We obtained and documented the access management policies and ordinances currently being implemented at a State level and by various cities and jurisdictions within Pinal County, Pima County, and Maricopa County. This information was used to fill in deficiencies in the current Pinal County access management policies and ordinances such as access spacing requirements, design standards, incorporating access management with new land development projects, and access approval and permit process.

Pinnacle Peak Road, 43rd Avenue to 35th Avenue; City of Phoenix

Senior Traffic Engineer responsible for the development of the traffic signal and signing and marking plans. Stanley Consultants prepared construction documents to widen Pinnacle Peak Road from two lanes to four lanes. The project included preparing a hydrologic analysis, sizing a storm drain system to capture and convey the runoff to an acceptable outfall, and upgrade existing curb returns to make them ADA compliant. Other design features included new lighting on the south side of the improvements and provide infill lighting on the north side of the roadway.

Third Street and Van Buren Street Bicycle and Pedestrian Improvements; City of Phoenix

Project Manager responsible for managing the development of the bicycle and pedestrian improvement project, conducting field inventory of corridors determining bicycle and pedestrian deficiencies, developing and evaluating the proposed design alternatives for retrofitting or enhancing bicycle and pedestrian accommodations, developing cost estimates and implementation schedule for recommendations. Responsibilities also included coordinating with the City and attending meeting with City staff, providing information for public information meetings conducted by City staff, and project invoicing.



HANNAH HOUSENGA, E.I.T.

Engineer-In-Training II

Stanley Consultants

4 Years of Experience 4 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, Arizona State University

Professional Registration

Engineer-in-Training: AZ #12150

Hannah's traffic experience includes design, traffic engineering studies, and CADD. Her traffic engineering design experience includes roadway lighting, maintenance of traffic, and signing and pavement marking on arterial streets and freeways. Traffic study experience includes traffic volume analyses, crash data analyses, and level of service analyses. Software utilized for analysis includes Vistro, Synchro, Highway Capacity Software and RODEL. CADD experience includes creating designs, graphics, and visuals in both MicroStation and AutoCAD.

PROJECT EXPERIENCE

Northern Parkway – Dysart Road TI; MCDOT; Maricopa County, AZ

Technical Support for pavement marking and signing design, created sign formats in SignCAD, created analysis areas in AGi32. Stanley Consultants designed a six-lane grade separated crossing of Northern Parkway over Dysart Road. Included in this project was the design of about one mile of mainline parkway from the terminus of the existing parkway to the ramps of the future El Mirage Road TI.

Northern Parkway, Dysart Road to 111th Avenue; MCDOT; Phoenix, AZ

Technical support for MOT and sign structure design, calculating pavement marking, lighting and traffic control quantities, creating and revising sign summaries voltage drop calculations and contributed to the lighting report. This project includes the final design and construction plans, specifications, and estimates for the Phase II Northern Parkway, Dysart Road to 111th Avenue project.

Missouri: 43 to 19 Ave Bikeway; Maricopa Association of Governments; Phoenix, AZ

Provided technical support during the preparation a Design Concept Report (DCR) to evaluate the benefits and impacts of adding bicycle lanes along Missouri Avenue from 19th Avenue to 43rd Avenue. The project includes analysis of the traffic impacts associated with removing traffic lanes at the key intersections of 19th Avenue, 27th Avenue, 35th Avenue, and 43rd Avenue. The team also developed three alternative concepts for a grade separated bicycle and pedestrian crossing of I-17 to connect the residential communities on both sides. Technical support included running Synchro analysis of intersections along with creating figures for the traffic report.

McCartney Road At-Grade Crossings; Pinal County Department of Public Works, AZ

Hannah designed traffic control, pavement marking and signing plans, created sign summary sheets, created sign formats, and calculated traffic control, pavement marking and signing quantities. Stanley prepared the plans, specifications and estimates for construction sequence, detour and traffic control plans. Stanley developed a construction sequence concept to construct the project improvements and traffic control plans in accordance with the MUTCD. Roadway detours were developed to re-route traffic around the construction zones. Trailblazing detour plans were prepared for closure of Weaver Rd north of McCartney Road. Stanley prepared signing and pavement marking plans for the ultimate condition of eastbound and westbound left turn lanes at Weaver Road.

HANNAH HOUSENGA, E.I.T.

Fain Road and Sarah Jane Interchange Study; Central Yavapai Metropolitan Planning Organization, AZ

Technical support, responsible for running Synchro analysis of intersection for a traffic signal warrant and operation study at the intersection of Fain Road and Sara Jane Lane along with creating figures for the traffic report.

Traffic Safety On-Call Services; Arizona Department of Transportation, AZ

Stanley Consultants has completed the following task orders:

SR 95/Cienega Spring Road Intersection Improvements MP 149.2 – Provided predesign scoping document, environmental clearance, and final design for an intersection improvement project on SR 95 in Parker, Arizona. The project included a mile of widening on SR 95 in both directions to accommodate a new left turn lane from SR 95 to Cienega Springs Road. Design elements include roadway, drainage, construction sequencing, maintenance of traffic, signing and pavement markings. Hannah assisted in calculating quantities and updating sign summaries.

SR 87, Slate Creek Curve & Truck Escape Ramp MP 226–MP 229 – Predesign and final design for NB and SB roadway curve realignment and reconstruction and a new truck escape ramp for the steep NB downgrade north of Sunflower. Hannah assisted in calculating quantities.

US 70, Bylas – Roadway Improvement Safety Project; ADOT, Bylas, AZ

Hannah assisted in the lighting design for this four-mile state highway widening project that included 3.5 miles of converting existing high-pressure sodium lighting to LED lighting and one mile of new LED pathway lighting. The photometry was performed with four different LED luminaire manufacturers to ensure that each of the ADOT approved LED fixtures would meet the design criteria with the proposed light pole spacing and mounting height. The photometric analysis combined pathway lighting with roadway lighting where the pathway was adjacent to US 70 to minimize the cost of the new pathway lighting.

59th Avenue Traffic Signal Optimization, City of Glendale, AZ

Technical support, assisted in creating Synchro files and entering traffic volumes in order to optimize traffic signal timing at eight intersections on 59th Avenue along with assisting in graphic preparation for the technical report.

SR 89-SR 89A to South Chino Limits; ADOT, Chino Valley, AZ

Traffic support, responsible for preparing signing and pavement marking plans for a one-and-a-half-mile segment involving one roundabout, prepared sign summaries and quantities and created sign formats in SignCAD and sign structure elevation sheets.

South Mountain Freeway; ADOT, Phoenix, AZ

Traffic support, responsible for preparing signing, pavement marking and roadway lighting and underdeck lighting plans, sign structure elevation sheets, pole schedules and conductor schedules, calculating voltage drops, and creating sign formats in SignCAD for an approximately seven-mile segment of the new SR 202L freeway. Hannah also managed the traffic elements for the seven-mile segment and was responsible for coordinating with subs and the client to obtain the desired quality product.

SR 260: Thousand Trails to I-17, ADOT, Camp Verde, AZ

Traffic support, responsible for preparing signing and pavement marking plans for seven roundabouts in a seven-mile segment of SR 260, prepared sign summaries and quantities, created sign formats in SignCAD, and assisted in lighting analysis using AGi32 and preparing lighting and maintenance of traffic plans.

US 95 & Avenue 8E Intersection; ADOT, Yuma, AZ

Traffic support, responsible for preparing signing and pavement marking plans, sign summaries, and quantities and created sign formats for a single intersection in Yuma, AZ.



ERICK BERRY

Engineer-In-Training I

Stanley Consultants

2 Years of Experience 2 Years with Stanley Consultants

Education

Bachelor of Science in Engineering,
Civil Engineering, Arizona State
University

Professional Registration

Engineer-in-Training: AZ #012583

Erick has experience in traffic engineering design and transportation planning analyses. During his time with Stanley Consultants he has gained experience and provided support with traffic engineering design, traffic research, and CAD. His traffic engineering design experience includes roadway lighting, traffic signal design, construction zone traffic control design, signing, pavement marking, and ITS. His traffic research experience includes traffic volume forecasting, crash data analyses, signal warrant analyses, and roadway and intersection capacity analyses. His CAD experience includes working in both MicroStation and AutoCAD to create design plans and report exhibits.

PROJECT EXPERIENCE

Indian School Road, Verrado Way to Jackrabbit Trail Traffic Analysis; Buckeye, AZ

Traffic support responsible for conducting a capacity analysis to determine necessary roadway and intersection improvements required to improve operation along Indian School Road between Verrado Way and Jackrabbit Trail. Tasks included analyzing existing conditions within the study area utilizing Highway Capacity software and Synchro software to identify deficiencies in the existing roadway characteristics, as well as conducting signal warrant and HAWK warrant analyses at study intersections. In addition, responsible for developing roadway network alternatives to address identified deficiencies such as roadway widening, the reconfiguration of travel lanes, and the installation of traffic signals and analyzing these alternatives utilizing Highway Capacity software and Synchro software. Also, responsible for preparing cost estimates for the presented alternatives and documenting the traffic study in a final report.

Phoenix International Airport Signing and Marking Evaluation Study; Phoenix, AZ

Traffic support responsible for conducting a traffic study to evaluate the signing and pavement marking at 14 study intersections along Sky Harbor Boulevard within the Phoenix International Airport and assess compliance with current city and national standards. Tasks included daytime and nighttime field reviews to assess existing signing and pavement marking conditions such as sign and pavement marking condition, sight visibility restrictions, and retroreflectivity as well as a literature review for current wrong way vehicle detection devices. In addition, responsible for an evaluation of existing signing and pavement marking with respect to current City of Phoenix standards and the Manual of Uniform Traffic Control Devices requirements and the development of site specific recommendations including a prioritized list of intersections improvement and construction cost estimates.

Missouri: 43 to 19 Ave Bikeway; Maricopa Association of Governments; Phoenix, AZ

Traffic Support responsible for preparing a Project Assessment (PA) to evaluate the benefits and impacts of adding bicycle lanes along Missouri Avenue from 19th Avenue to 43rd Avenue. Tasks included collecting existing lane configurations, and creating alternatives to implement bike lanes along Missouri Avenue and at the key intersections of 19th Avenue, 27th Avenue, 35th Avenue, and 43rd Avenue. Also, responsible for analyzing the traffic impacts associated with removing traffic lanes at the key intersections, preparing graphics for the PA, and compiling quantity and cost estimates for the proposed alternatives.

ERICK BERRY, E.I.T.

SR 88, Superstition Boulevard; Apache Junction, AZ

Traffic Support responsible for contributing to the design of the construction zone traffic control at the intersection of SR 88 (North Idaho Road) and North Apache Trail, which required the implementation of multiple typical applications defined in the Manual on Uniform Traffic Control Devices and supplemental applications defined in the ADOT Traffic Control Design Guidelines. Also, responsible for compiling traffic control quantity estimates for this intersection, and reviewing construction zone traffic control plans as well as signing and marking plans produced by ADOT.

Northern Parkway, Dysart Road to 111th Avenue; Maricopa County Department of Transportation, AZ

Traffic Support for this interim freeway project that consists of constructing frontage roads and ramp intersections; crossroad improvements at Dysart Road; and El Mirage Road; a bridged crossing of the Agua Fria River; and an interim reconnection of the Northern Parkway facility with existing Northern Avenue at 111th Avenue. Responsible for designing the signing and pavement marking, and ITS plans, which required a unique implementation of both MCDOT and ADOT Design Standards/Guidelines as well as consideration of the closely following Dysart Road and El Mirage Road Interchange projects to allow for the most efficient and cost-effective transition between projects. Also, responsible for contributing to the design of lighting, traffic signal, and traffic control plans for this multi-phased project, and preparing quantity and cost estimates for the signing, pavement marking, lighting, traffic signal, ITS, and traffic control items.

Northern Parkway – Dysart Road TI, MCDOT, Maricopa County, AZ

Traffic Support for the current design of a six-lane grade separated crossing of Northern Parkway over Dysart Road, including the design of about one mile of mainline parkway from the terminus of the existing parkway to the ramps of the future El Mirage Road TI. Responsible for the design of the roadway lighting, requiring a photometric analysis utilizing AGi32 software for three different LED luminaire manufactures. Also, responsible for conducting voltage drop calculations and preparing lighting plans, pole schedules and conduit schedules.

McCartney Road At-Grade Crossings; Pinal County Department of Public Works, AZ

Traffic support responsible for contributing to the design of the signing and pavement marking plans for the construction of eastbound and westbound left turn lanes at Weaver Road. Also, responsible for compiling signing and pavement marking quantity estimates for these plans.

US 95, Avenue 8E Intersection; Yuma, AZ

Traffic Support for the design of existing freeway improvements, including the widening of an intersecting roadway along US 95. Responsible for contributing to the design of the signing and pavement marking plans as well as the construction zone traffic control plans along US 95 and Avenue 8E, which required the implementation of standards defined in the Manual of Uniform Traffic Control Devices and the ADOT Traffic Control Design Guidelines. Also, responsible for compiling traffic control quantity estimates for these plans.

Fain Road and Sarah Jane Interchange Study; Central Yavapai Metropolitan Planning Organization, AZ

Traffic Support responsible for analyzing crash data, forecasting future traffic volumes, conducting traffic signal warrant analysis, and including revisions to final report.

US 70, Bylas – Roadway Improvement Safety Project; Bylas, AZ

Traffic Support responsible for completing voltage drop calculations, sizing conductors, and compiling quantity estimates for this four-mile state highway widening project included 3.5 miles of converting existing high-pressure sodium lighting to LED lighting and one mile of new LED pathway lighting.



MARTA GERBER, P.E.

Principal Transportation Engineer

Stanley Consultants

20 Years of Experience First year with Stanley Consultants

Education

Arizona State University
B.S., Civil Engineering, 1998

Professional Registration

Professional Engineer: AZ #41369

Professional Societies

- » Institute of Transportation Engineers – ITE
- » Women's Transportation Seminar – WTS
- » Intelligent Transportation Society of Arizona
- » American Council of Engineering Companies (Arizona Section)
- » Arizona Society of Highway Engineers – ASHE

Marta has successfully served as project manager and/or principal for dozens of projects, from modeling and analysis phase to final design. In addition, she successfully led projects that utilized local, state or federal funding from pre-design through final documents for all project improvements. Her expertise includes the development of traffic impact studies, traffic signal warrant evaluations, capacity analyses, crash analyses, travel time analyses, signal timing and coordination studies, feasibility studies, design concept reports (DCRs), access control studies, parking studies, intersection geometric improvements analysis and design, traffic signal design for new, modified and temporary traffic signals, interconnect, signing and marking design. Marta has also been an active participant in bicycle and pedestrian related studies and design projects, traffic calming and road diet design projects as well as the development of context sensitive design solutions for unique safety improvement studies and design projects.

Safety Experience/Committee Involvement: In recent years, Marta has been involved in Road Safety Audits (RSAs) for intersections and corridors throughout Arizona, as well as Safety Improvements at signalized Rail Road Crossings. As an engineer who has spent her career in traffic engineering, Marta has an ongoing professional commitment to improving safety on Arizona roads. On a state level, she has been the Arizona Co-chair for Federal Highway Administration's (FHWA) Everyday Counts Initiative 4 (EDC-4), Safe Transportation for Every Pedestrian (STEP) program. In the State of Arizona STEP focuses on promoting pedestrian safety countermeasures for planning, design, and research efforts over the next five years.

PROJECT EXPERIENCE

Westview High School, Signal Warrant and Safety Analysis, Avondale, Arizona. City of Avondale.

Project Manager. This project included the completion of a signal warrant and safety analysis for West View High School driveway on 107th Avenue. The purpose of the study was to determine if signalization of the school driveway on 107th Avenue is warranted, and to determine appropriate geometric improvements (e.g. installation of medians), as well as addressing safety concerns that the students and the school faculty had regarding the driveway. The study included collecting pedestrian, vehicular and accident information at and around the school driveway.

McDowell Road Signing and Marking Design and Signal Redesign, City of Avondale, Avondale, Arizona.

Lead Traffic Engineer. This roadway design project included two (2) miles of major arterial reconstruction. Challenging aspects of this project included utility relocation, lane configurations, and private development coordination. The project included the existing 103rd Avenue intersection signal modification due to the roadway widening on McDowell Road.

MARTA GERBER, P.E.

75th Avenue and Thunderbird Road Intersection Improvements, City of Peoria, Peoria, Arizona.

Lead Traffic Engineer. Marta was responsible for the traffic analysis using projected traffic volumes, and the preparation of all traffic improvements. Oversaw design efforts for the signing, striping, and signal designs. Led the ITS design efforts beyond the intersection improvements. The project required the comparison of four alternatives based upon construction costs, right-of-way costs, utility impacts, access control, intersection operation, level of service, and travel time delay. The project included the preparation of PS&E documents for roadway, drainage, pavement marking/signing, traffic signal, lighting, and signal communication improvements. The project delivery was CMAR.

Miller Road, Tonopah-Salome Highway to One Mile North; Maricopa County, Buckeye, Arizona.

Project Manager and Principal-in-Charge. This project involved the improvement of a mile-long segment of Miller Road from Yuma Road to the Army National Guard Facility. The improvements included constructing a new two-lane roadway with AC pavement plus the associated drainage. Marta assisted in the preparation of the scoping assessment report and she managed the preparation of final design plans, specifications, and estimates (PS&E). Multiple design issues were addressed, including right-of-way acquisition, overhead utility relocation, mitigation of potential environmental impacts, drainage control, and accommodation of the existing FCDMC Buckeye Flood Retarding Structure (FRS) #2 and providing access to the structure while minimizing right-of-way needs and cost.

El Mirage Road, Bell to Beardsley; Maricopa County, Arizona.

Lead Traffic Engineer responsible for signing and marking and signal design modifications and geometric improvements at the intersection of El Mirage Road and Bell Road. The north leg of El Mirage Road was widened and a westbound right turn lane was installed. Due to these improvements the northbound lanes had to be balanced through the intersection as well as the length of the necessary right-turn lane had to be maximized while physical constraints had to be considered. This project also included the design of conduit along a two-mile segment of Bell Road installing 96-strand single mode fiber optic cable to bring two new signals online with CCTV cameras.

Dunlap Ave and 35th Ave Intersection Safety Improvements Project Assessment and Final Design, City of Phoenix, Phoenix, Arizona.

Project Manager. The City of Phoenix received funding through the Highway Safety Improvements Program for safety improvements to the Dunlap Ave intersection with 35th Ave and the Dunlap Ave corridor between 43rd and 31st Aves. The proposed 35th Ave intersection improvements included changing the “protected-permissive” left turn phasing for north and southbound 35th Ave to “protected-only” left turn phasing through changes to the signal timing and addition of a second left turn lane on 35th Ave as well as access control for driveways near the intersection. The proposed corridor treatment involved improving illumination by the installation of lighting on the south side of Dunlap Avenue.

McDowell Road Bicycle Lanes, City of Scottsdale, Scottsdale, AZ

Principal-in-Charge and Quality Assurance and Quality Control Engineer. The McDowell Road Corridor is an important revitalization project for the City of Scottsdale, it is being transformed from a commercial center into an urbanized community. Marta reviewed and provided technical direction on the Project Assessment that analyzed and designed for the installation of bike lanes along McDowell Road between 64th Street and Pima Road utilizing CMAQ funds. These improvements seamlessly tied into existing segments through unnoticeable narrowing lane widths and narrowing or shifting of the center medians. The project also required coordination with the City of Phoenix early in the project development to connect the City of Phoenix’s bike lane facilities at the 64th Street intersection to the new City of Scottsdale facilities.



NATALIE CARRICK, P.E.

Senior Traffic Engineer

Stanley Consultants

15 Years of Experience First Year with Stanley Consultants

Education

Arizona State University
B.S., Civil Engineering, 2003

Professional Registration

Professional Engineer:
Arizona, # 49996
Utah, #9299973-2202
Colorado, #54178

Professional Societies

- » Institute of Transportation Engineers
- » Intelligent Transportation Society of Arizona

Natalie holds a B.S. degree in Civil Engineering and has experience in the Traffic and Transportation fields. Her experience includes preparation of pre-design studies and final design projects. Pre-design studies include traffic impact studies, traffic signal warrant evaluations, level-of-service analyses, crash analyses, capacity analyses, travel time analysis, and traffic signal timing and coordination plans. Natalie's final design experience includes designing plans for new and modified traffic signals, traffic signal interconnects, and signing and pavement markings. She has completed more than 100 traffic impact analyses, over 50 miles of signing and marking designs and over 50 traffic signal designs. She has experience with project specifications and estimates and is proficient in Synchro, Traffix, AutoCAD and Microstation.

PROJECT EXPERIENCE

On-Call Traffic Services, Avondale, Arizona. City of Avondale

Project Manager responsible for managing the project and completing the analysis for the left turn warrant study. Projects included a left-turn phasing warrant study at the Rancho Santa Fe Boulevard and McDowell Road intersection to determine if protected left-turn phasing was warranted for the existing traffic in the vicinity; plans detailing the necessary traffic control to coincide with closure of Western Avenue between Central Avenue and Dysart Road during various events; and plans detailing traffic control to coincide with complete closure of Civic Center Drive and partial closure of Civic Center Drive and Coldwater Springs Boulevard east of Avondale Boulevard.

Strategic Transportation Safety Plan, Avondale, Arizona. Maricopa Association of Governments (MAG)

Project Manager responsible for managing the development of the Strategic Transportation Safety Plan. Provided updates to the MAG Transportation safety committee and gave presentations during stakeholder meetings. In adherence to the Federal Highway Administration's (FHWA) Vision Zero Plan, the project consisted of the development of a comprehensive Strategic Transportation Safety Plan (STSP) that established city-wide vision, goals, objectives, strategies, countermeasures, and performance measures for transportation safety. The project reviewed current road safety and programs; established the vision, goals, and strategies; recommended action areas, potential strategies, and relevant safety performance measures; generated intersection crash risk rankings; and developed an implementation plan describing the approach for improving road safety over the 10-year span.

Dysart/Rancho Santa Fe Project Assessment, Avondale, Arizona. Maricopa Association of Governments (MAG)

Project Manager responsible for managing the development of the project assessment. The Project Assessment (PA) included a project determination; background information and general description; project scope; and development considerations, such as environmental requirements, agency involvement, right-of-way and utility requirements, seasonal

NATALIE CARRICK, P.E.

considerations, traffic requirements, alternatives, AASHTO criteria, and design speed comparisons. The PA recommended installation of a northbound right-turn lane and detectable warning surface to the pedestrian ramps on the northwest and southwest corners.

MCDOT On-Call 2012-2014, Maricopa County, AZ

Traffic Engineer responsible for leading the traffic engineering task for signing and marking plans for the project. This project consisted of preparing a Scoping Assessment Report for Task Order TT338 Miller Road. This project is a one-mile stretch of Miller Road from Yuma Road to the Army National Guard Facility. The purpose of the project is to pave the dirt road and therefore suppress the amount of dust generated by vehicular traffic. Multiple design issues were addressed with this project, including Right-of-way acquisition, overhead utility relocation, mitigation of potential environmental impacts, drainage control, and accommodation of the existing FCDMC Flood retarding Structure Buckeye FRS #2.

Access Management Manual; Pinal County, AZ

Project manager responsible for development of the Access Management manual. The work consisted of preparing a stand-alone Access Management Manual for all street classifications in Pinal County. For the development of the manual, pertinent findings of all relevant local studies, plans, policies, and standards was obtained, reviewed, analyzed, and documented to formulate the principles and benefits of access management. The access management policies and ordinances currently being implemented at a State level and by various cities and jurisdictions within Pinal County, Pima County, and Maricopa County were obtained and documented. This information was used to fill in deficiencies in the current Pinal County access management policies and ordinances such as access spacing requirements, design standards, incorporating access management with new land development projects, and access approval and permit process.

Intersection Improvement Studies, Peoria, Arizona. City of Peoria, Arizona.

Project Manager responsible for managing all project components and client needs. The project consisted of a study of four intersections located within city limits that were being considered for improvements. The purpose was to identify what, if any, improvements would be needed to maximize the safety and level of service to the intersections and analyze the cost effectiveness of any recommended improvements. The intersections are 89th Avenue and Northern Avenue, 83rd Avenue and the driveway just south of Bell Road, West Wing/83rd Avenue and Jomax, and 100th Avenue and Happy Valley Road. level of service (LOS) was evaluated; signal warrant analyses were performed; crash data analyzed; and developed and analyzed alternatives, including traffic signals, raised medians, high-intensity activated crosswalk (HAWK), and others. Cost estimates were provided for improvements, utility relocations, and any right-of-way acquisition. The project also included coordination with stakeholders, including the County, the City of Glendale, the school district and the school administration, business owners, the local community, and the City (client).

I-10, Cotton Lane to Litchfield, Freeway Management System (FMS); ADOT

Project Manager responsible for project management and client management for the development of the FMS design. Facilitated and attended client meetings and prepared meeting agendas and notes. The project included the development of a project assessment report for the I-10 Cotton Lane to Litchfield Road FMS project that recommended extending the project limits two miles farther west to Perryville Road to support the operation of the I-10/SR 303L traffic interchange (TI). The project assessment was finalized in October 2015. Following the project assessment, final plans, specifications, and estimates (PS&E) for this project were prepared, which included five new closed-circuit television (CCTV) cameras, four new dynamic message signs (DMS) and structures, seven mainline detector stations, a new communications node building, six new load centers, and fiber optic cable installed along both sides of the freeway for this five-mile-long project.



DON TAPPENDORF, P.E.

Principal Transportation Engineer

Stanley Consultants

35 Years of Experience First Year with Stanley Consultants

Education

Master of Science, Civil Engineering, University of Illinois-Urbana-Champaign

Bachelor of Science, Civil Engineering, University of Illinois-Urbana-Champaign

Professional Registration

Civil Engineering: IL #061018767

Professional Engineering: AZ #22213

Professional Engineering: NV #013825

NCEES Record Holder: -

Professional Engineering: CO #53788

Civil Engineering: UT #10714424-2202

Civil Engineering: FL #84724

Professional Societies

» ITS Arizona Member

» ITE - AZ Section

Don has years over 30 years of experience in Intelligent Transportation Systems (ITS), traffic engineering, and transportation planning with emphasis in the preparation of engineering plans for freeway and arterial projects. He has led design efforts for the preparation of ITS/FMS and traffic signal systems, fiber optic interconnect projects, and specialized systems planning projects. His other design experience includes traffic control and construction phasing plans, cost estimating, specification preparation, bidding assistance, and public involvement, as well as post-design services for all types of projects.

Don's ITS experience for ADOT transportation planning projects has included a focus on ITS features, including CCTV and Dynamic Messaging Signs (DMS), variable speed limit signs, ramp metering, traffic signal systems, communications, wrong way driver detection systems, and transportation systems management and operations (TSMO).

PROJECT EXPERIENCE

I-17 Wrong-Way Driving Detection Pilot Project, ADOT, Phoenix, AZ

Senior Engineer. Don was responsible for developing the final design plans and specifications for the I-17 Wrong Way Driving Detection Pilot Project along Interstate 17 from the I-10 Traffic Interchange to the State Route 101 Interchange. This first of its kind deployment in the nation will install freeway mainline sensors, interchange sensors, illuminated "Wrong Way" signs with flashing LED's, conduit, fiber, control cabinets, and associated electrical components. The purpose of this pilot project is to improve detection ability and response time to wrong way driving events, with the ultimate goal of improving motorist safety and reducing the impacts of wrong way driving events.

Signal Equipment Inventory; Surprise, AZ; City of Surprise

Senior Project Engineer – Don evaluated seven existing traffic signals along the Bell Road corridor for compliance with MUTCD standards and for ADA compliance. The study included a field review/inspection of the existing traffic signal equipment, cabinet, pull boxes and wiring for compliance with MUTCD and City of Surprise standards. The field review noted ADA deficiencies and made recommendations for capital improvements to bring the traffic signals up to current standards.

Mesa Main Street-Smart Instrumentation; Mesa, AZ. City of Mesa

Project Manager responsible for the preparation of final design plans for the installation of Fiber Optic Cable along Main Street from Sycamore to Mesa Drive in the City of Mesa. The project included the installation of conduit, pull boxes, fiber optic cables, data modems, DMS, and CCTV cameras and connections to existing traffic signal controllers to expand the City's synchronized traffic control and monitoring system.

ITS Fiber Optic Backbone, Phase A, Phoenix, Arizona. City of Phoenix.

Project Manager for the installation of over 10 miles of fiber optic infrastructure, including conduit, fiber optic cable, and pull boxes. Connections to over 40 traffic signal controllers, 1 arterial DMS, and multiple inter-agency connections were completed in this project, which

DON TAPPENDORF, P.E.

was federally funded and used the Construction Manager at Risk process for project delivery.

ITS Fiber Optic Backbone, Phase B and ARRA project; Phoenix, Arizona. City of Phoenix.

Project Manager for Phase B, which implemented fiber installations in 3 segments, and for a fiber design included in a federally funded ARRA project. These 4 projects resulted in the installation of nearly 40 miles of fiber optic infrastructure, including conduit, fiber optic cable, and pull boxes. Connections were made to over 40 additional traffic signal controllers, 7 CCTV, and several additional inter-agency connections. These projects completed a major fiber ring around the city and significantly expanded the reach of the City's fiber backbone for future deployment of wireless communications to traffic signal controllers along the arterial grid system.

I-10, Cotton Lane to Litchfield, Freeway Management System, ADOT; Phoenix, AZ

Senior Engineer. Responsible for conducting field reviews, project design including field element placement, fiber optic communications design, power design, splice details, and coordinating load center locations with the local utility. Also responsible for writing the special provisions for the project and conducting QC/QA review on the plans, special provisions, and estimate prior to each project submittal.

S.R. 88 Apache Trail Project Assessment Report and Final Design for Safety and Corridor Improvements; ADOT; Phoenix, AZ

Senior Engineer. Responsible for review of the placement of DMS sign structure and foundations with respect to adjacent development including fences, overhead lighting, and curb lines to assure the foundation is constructible without disturbing adjacent features. Conceptual design plans were prepared and a project assessment report to address improvements proposed by a state safety evaluation to Apache Trail (S.R. 88), a historic and scenic highway leading out of the Phoenix metropolitan area into the canyons and lakes of the Salt River within the Tonto National Forest.

SR 303 FMS PA. Arizona Department of Transportation.

Project Manager. Responsible for determining recommended placement for DMS, CCTV, and mainline detection stations along the corridor, coordination with utility providers for potential line extensions to ADOT right of way, evaluation of solar power options for select field element locations, and overall recommendations of several deployment options for this project assessment.

US 180/Milton Road Corridor Master Plans; Flagstaff, AZ; ADOT (MPD)

Senior Consultant responsible for reviewing previous and new development alternatives and assessing how ITS technology could be utilized within these corridors. Project Manager responsible for coordinating overall task deliverables, managing budgets and coordinating with the client and stakeholders.

SR 202L Phase 14b FMS Design, Dobson Road to Ray Road; Chandler and Gilbert, AZ; ADOT

QC/QA Manager and Project Engineer for the design of this 10-mile extension of the FMS on Loop 202. The project included 10 new CCTV cameras, 8 new DMS signs, 15 entrance ramps for ramp meter infrastructure with 6 warranted for ramp metering, 19 mainline detector stations, connection to 5 ADOT pump stations, and fiber optic cable installed along both sides of the freeway. The Final Project Assessment was submitted in November 2013, final design started in May 2014, and construction bids were successfully opened in March 2016.

Regional Community Network Phase 1A Design; Phoenix, Peoria, and Glendale, AZ; ADOT

Project Engineer for the design of the Regional Community Network Phase 1A. This project utilized existing conduit infrastructure and fiber optic cabling, where available, and added new conduit and fiber optic cable to provide interconnection between multiple downtown and west valley facilities including the Peoria Traffic Management Center (TMC), Glendale TMC, Glendale Public Safety Building, ADOT Traffic Operations Center, Maricopa County TMC, Calvin Goode Building, Phoenix TMC, MAG Building, Phoenix Public Transit, and Phoenix Sky Harbor Airport Rental Car Center. This project was federally funded and administered through the ADOT Local Governments process.



GARY MELITA, P.E.

Principal Transportation Engineer, Senior Project Manager
Stanley Consultants

28 Years of Experience 24 Years with Stanley Consultants

Education

BS, Construction Civil Engineering,
Arizona State University, 1991

MS, Construction
Management/Engineering, Arizona
State University, 1996

Professional Registration

Civil Engineering, AZ #30516

Professional Societies

- » American Society of Highway Engineers (ASHE)
- » American Council of Engineering Companies (ACEC)

Technical Experience:

- » Roadway Geometrics (Urban and Rural Highways, Arterials, Intersections and Interchanges)
- » Roadway Modeling (INROADS)
- » Cross Sections and Earthwork Calculations
- » Construction Plans and Details
- » Quantity Calculations
- » Specifications and Construction Cost Estimating
- » Design and Construction Scheduling
- » Construction Sequencing and Maintenance of Traffic
- » Construction Inspection and Administration
- » Post Design Services
- » Value Engineering

Gary has 28 years of experience related to study, design, and construction of rural highways, urban freeways, and arterial streets and has developed an exceptional knowledge of roadway design guidelines and project development. He is recognized as an expert in roadway design particularly with respect to construction means and methods due to his previous experience as an ADOT construction supervisor and assistant resident engineer. He excels at designing vertical and horizontal alignments, interchanges, and intersections while creating safe, operational facilities that meet current design criteria. Gary has successfully managed a variety of projects from large urban freeways/TIs to numerous smaller projects under several Roadway Design, Traffic Safety, and Predesign/Statewide Highway Design On-Call contracts. Projects include preparation of Project Assessments, Design Concept Reports, and final design of roadway and intersection improvements and safety enhancements. Gary has also managed several arterial street and intersection improvements, and bike lane projects for local municipalities developed for federal funding eligibility.

Gary's focus is designing and delivering projects on time or ahead of schedule, continuous open communication with the client and stakeholders, timely issue resolution, value engineering, constructability, preparing quality construction documents, operating within project design and construction budgets, and fully supporting the project through the bidding process, construction, and record drawing preparation.

PROJECT EXPERIENCE

Northern Parkway – Dysart Road TI, MCDOT, Maricopa County, AZ

Project Engineer. Stanley Consultants designed a six-lane grade separated crossing of Northern Parkway over Dysart Road. Included in this project was the design of about one mile of mainline parkway from the terminus of the existing parkway to the ramps of the future El Mirage Road TI. All engineering services were performed to prepare construction documents for the bidding of this project. This included construction plans, specifications, special provisions, drainage reports, environmental document updates and coordination, field surveys, geotechnical reports, construction quantities, earthwork calculations, construction cost estimates, utility coordination and the preparation of all bid documents to complete the project. Specific services provided were structural design, roadway design, drainage design, lighting design, pavement design and contributing to public meetings.

Northern Parkway - Dysart Road to 111th Avenue, MCDOT, City of Glendale, El Mirage, Peoria, AZ

Project Engineer responsible for final design, multi-discipline coordination, QC, and preparing PS&E. Project improvements consisted of frontage roads and ramp intersections; crossroad improvements at Dysart Road; and El Mirage Road; a multi-span bridge crossing the Agua Fria River; and an interim reconnection of the Northern Parkway facility with existing Northern Avenue at 111th Avenue. Design elements include roadway and bridge plans, fissure mitigation, onsite and offsite drainage systems, channels, drainage basins, pavement marking, signing, lighting, traffic control, and construction sequencing.

SR 88 / Superstition Blvd - Intersection Improvements (HSIP Funds), ADOT, City of Apache Junction, AZ

Project manager for provide scoping, project clearances and final design for a roundabout intersection with on and offsite drainage, channels, driveways, ADA sidewalk ramps, roadway lighting, signing, pavement markings, traffic signals, construction sequencing, traffic control, extensive utility coordination and relocations, right-of-way designation and acquisition, and environmental clearance (CE).

Beulah Boulevard - Bike Lanes (HSIP Funds), ADOT, Flagstaff, AZ

Project manager for provide scoping, project clearances and final design for adding bike lanes to 0.25 miles of Beulah Boulevard in Flagstaff, Arizona. The project included removal of existing raised medians, new AC pavement, signing and pavement markings.

Alma School / Elliot Road - Arterial Street Intersection (CMAQ Funds), City of Chandler, AZ

Project Manager responsible for managing and designing a six-lane arterial intersection with dual left turn lanes and an on-site closed drainage system, detention basins, numerous driveways, ADA sidewalk ramps, landscaping and irrigation, roadway lighting, signing, pavement markings, traffic signals, extensive utility coordination and relocations, right-of-way designation and acquisition, and environmental clearance (CE).

SR 95 / Cienega Spring Road - Intersection Improvements (HSIP Funds), ADOT, Parker, AZ

Project manager for providing scoping, project clearances and final design for intersection improvements on SR 95. The project included approximately one mile of widening on SR 95 to accommodate a new left turn lane from SR 95 to Cienega Springs Road. Design elements included roadway, drainage, construction phasing, maintenance of traffic, erosion control, signing and pavement markings.

SR 69 - Median Low-Profile Concrete Barrier (HSIP Funds, ADOT, Prescott, AZ

Project manager for provide scoping, project clearances and final design for mitigating cross over crashes on 2 miles of SR 69 between Prescott and Prescott Valley. The project included constructing low profile concrete median barrier and installing three traffic signals. Design elements included roadway, traffic signals, drainage, construction phasing, maintenance of traffic, signing and pavement markings.

I-10 - Bullard Avenue TI (Design Concept Report), ADOT, City of Goodyear, AZ

Project Manager responsible for managing and completing a DCR for converting a grade separation to a traffic interchange at I-10 and Bullard Avenue. The project included designing several TI concepts and building consensus for a preferred alternative, 15% plans, a Traffic Study, and an Environmental Overview.

Chandler Boulevard - McQueen Road to Gilbert Road, City of Chandler, AZ

Project Engineer for 2.5 miles of street drainage improvements including widening from two- to six-lanes with median, installation of curb and gutter, drainage, extensive utility relocations, traffic lighting and signalization, traffic control, and right-of-way acquisition. Responsibilities included development of alternative horizontal alignments and median configurations for review by city staff; development of final horizontal and vertical geometrics, intersection layouts, curb profiles and median geometrics, and intersection layouts.

SR 24 TI - SR 202L to Ellsworth Road, ADOT, Mesa, AZ

Lead Roadway Engineer responsible for the design of a system to system traffic interchange and freeway segment with one service traffic interchange, 10 structures, retaining walls, on and off-site drainage facilities, lighting, signalization, signing/markings, and relocations to public utilities.



JACKIE NOBLITT, P.E.

Principal Transportation Engineer

Stanley Consultants

35 Years of Experience 22 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, University of Wyoming

Professional Registration

Civil Engineering: CA #44110

Civil Engineering: CO #26466

Civil Engineering: UT #176686-2202

Civil Engineering: NV #9715

Civil Engineering: AZ #30472

Professional Societies

» Member - American Society of Civil Engineers.

Jackie has more than 30 years of studying and designing complex roadway projects with a focus on project management and coordination of multi-disciplined teams for preparation of alternative selection reports, design concept reports and environmental assessments. In addition to a solid transportation engineering background, Jackie has experience in environmental and regulatory compliance, NEPA requirements, facilitation of public meetings, and coordination with FHWA/outside agencies/ special interest groups and utilities. Jackie's major public projects have included the design of state and local roadways, interchanges, arterial streets, drainage systems, highway safety improvements, and HOV/transit corridors.

PROJECT EXPERIENCE

SR 202L / Lindsay Road TI DCR, Town of Gilbert

Project Manager responsible for preparing a Design Concept Report and NEPA clearance for new freeway access at Lindsay Road and the Santan Freeway in Gilbert, AZ. The goal of the selected alternative is to meet long-term transportation needs, satisfy the requirements of the National Environmental Policy Act (NEPA), and obtain public support. Work elements include stakeholder and public involvement, technical studies, and extensive coordination with canal owners, utilities, and adjacent developments.

US 60 (Superstition Freeway) / Meridian Traffic Interchange, ADOT, Phoenix, AZ

Project Manager for the preparation of final design and construction documents for this new "half" interchange on US 60 south of the Phoenix metropolitan area. Project elements include new ramps to and from the west, cross road widening on both ends of an existing bridge, auxiliary lanes on US 60, retaining walls, traffic signals, ramp and intersection lighting, drainage improvements, utility coordination (including the CAP canal and SRP relocations), definition of new right-of-way, and an environmental clearance.

I-17 / Dove Valley Road TI, ADOT, Phoenix, AZ

Project Manager for the preparation of final design and construction documents for the new interchange on I-17 in the northern Phoenix metropolitan area. Project elements included two bridges, ramps, frontage roads, and cross road design. A compressed design schedule for this \$20 million project was requested by ADOT after selection and met. The City of Phoenix and ADOT executed an IGA to advance design and construction of the project.

I-19 East Frontage Road, Ruby Road to Rio Rico Drive (MP 7.71-MP 10.88), ADOT, Nogales, AZ

Project Manager for the preparation of a study to evaluate and recommend operational improvements at the I-19 east and west frontage roads from Ruby Road to Rio Rico Drive. The intersections in the study area experience high levels of congestion in peak travel periods. An industrial park east of the east frontage road and a truck stop at the northeast corner of Ruby Road and the east frontage road attract a high volume of truck traffic. The project assessment includes development and evaluation of the no build alternative and five build alternatives (including frontage road extension, conversion of a frontage road to one-way, roundabouts, and a diverging diamond). A separate traffic report was prepared, which included

JACKIE NOBLITT, P.E.

detailed analyses of existing conditions and the proposed alternatives for the design year 2040. The project included separate meetings with project stakeholders and public meetings.

Road Safety Assessment, Apache Blvd and Price Freeway, MAG, Tempe, AZ

Roadway representative for a road safety assessment for a 0.5-mile segment of Apache Blvd from the SR 101L (Price Freeway) frontage road to approximately Lebanon Road, including several roadway intersections, a park-and-ride driveway, and a light rail station. Tasks included participating in field reviews in off-peak and AM and PM peak hours, preparation of de-briefing presentation for the project owners (Valley Metro, City of Tempe, and ADOT), and preparation of the final report.

US 191 Segment V Design-Build Design Oversight, ADOT, Safford, AZ

Project Manager for the ADOT General Engineering Consultant team. Responsible for the preparation of 30% plans and the Design-Build Request for Qualifications/Request for Proposals for the addition of two lanes to four miles of an existing rural highway south of Safford, Arizona, to create a four-lane divided roadway. Design oversight functions include coordination with ADOT project manager, resident engineer, and ADOT and Stanley technical reviewers, and coordination of design reviews.

I-17 Corridor Study, SR 179 Traffic Interchange to I-40 System Interchange; ADOT; Flagstaff, AZ

Project Manager responsible for contract management, overall schedule and budget control and subconsultants. The purpose of this study was to develop and evaluate feasible alternatives for the reconstruction and widening of I-17, as well as interim (short-term) improvements, to improve traffic operations and to accommodate projected traffic volumes in the 2035 design year. I-17 is a four-lane divided rural highway with full access control that traverses rolling to mountainous terrain. Project included 12 diamond interchanges, rest areas, a scenic overlook, and five canyon bridges. The project is predominantly within a US National Forest and sensitive wildlife habitat exists in close proximity to the corridor.

I-17 DCR and EA, Black Canyon to SR 69; ADOT

Project Manager responsible for contract management, overall schedule and budget control and subconsultants. This study developed and evaluated corridor widening and realignment alternatives for I-17, as well as interim (short-term) improvements, to improve traffic operations and to accommodate projected traffic volumes in the 2030 design year. I-17 is a four-lane divided rural highway that traverses mountainous to rolling terrain. Since no convenient alternate route exists, accidents that occur in the mountainous terrain frequently cause closures of I-17 and result in lengthy travel delays. Eight new freeway corridors up to 22 km long and six lane configuration scenarios were created and evaluated for engineering, environmental, and socioeconomic impacts.

Design Concept Report, I-17 Study Project Management; ADOT

Project Manager responsible for contract management, overall schedule and budget control and subconsultants. Project included preparation of design concept studies, general plans, and estimate of cost. Preparation of a Design Concept Report (DCR) and associated environmental studies for the addition of High Occupancy Vehicle (HOV) and general use lanes to the existing freeway corridor. The study encompasses flat urban terrain and rugged rural terrain in two counties and two ADOT districts. The geometrics of the Table Mesa interchange was evaluated, as well as the need for and operations of frontage roads in a 6-mile section of the corridor. The study corridor extends from SR101L to Black Canyon City, for a distance of 30 miles. As part of the study to widen 31 miles of I-17, Stanley Consultants provided structural assessments for lengthening of eight reinforced concrete box culverts and widening or replacement of 33 bridges including six Traffic Interchange Overpasses, 13 Traffic Interchange Underpasses (includes four Functionally Obsolete), and 14 bridges over canals and water crossing (includes two Functionally Obsolete and four Structurally Deficient). This project demonstrates Stanley Consultants' diverse experience with numerous ADOT structure types including reinforced concrete, steel, and prestressed concrete in single and multiple spans.

Noteworthy tasks completed for this project include Technical Memoranda for the replacement of Table Mesa Road Traffic Interchange UP and widening of I-17 mainline bridges over SR101L. Both locations present major traffic maintenance and constructability issues and require coordination with FHWA, Phoenix Construction District, and other agencies.



MICHAEL LOPEZ, P.E., P.M.P.

Principal Transportation Engineer

Stanley Consultants

34 Years of Experience 14 Years with Stanley Consultants

Education

Master of Business Administration,
Business, Arizona State University

Bachelor of Science, Civil
Engineering, New Mexico State
University

Professional Registration

Civil Engineering: AZ #22565

Professional Societies

- » Member - American Society of Civil Engineers
- » Member - American Consulting Engineering Companies of Arizona
- » Member - Arizona Association of County Engineers
- » Member - Society of American Military Engineers

Mike has more than 30 years of civil engineering experience specializing in designing municipal roadways, storm drains, utility relocations, open channels, detention basins, and other drainage-related projects. He is familiar with the standards of MCDOT, City of Phoenix, and other local cities within the metropolitan area and their respective requirements. Mike's experience includes that in both the private and public sectors. He worked as a design consultant in the Valley for 14 years and for the FCDMC for more than 12 years. At FCDMC, Mike was the Civil/Structures Branch Manager responsible for all in-house design and review for its capital improvement program. Additional experience includes design, design review, and preparation of construction drawings and special provisions for dams, open channels, levees, detention basins, major streets, rural and urban highways, bridges, storm drains, water and sewer lines, and construction management.

PROJECT EXPERIENCE

Dysart Improvement, Van Buren-Main; City of Avondale; Avondale, AZ

Project Manager and Team Leader responsible for providing design services that replaced and upsized a waterline in Dysart from Van Buren south to the railroad crossing. Stanley Consultants also designed roadway improvements for this section of Dysart. The waterline and widening of the roadway were constructed as a single project.

Dysart Road, Indian School Road to Glendale; MCDOT; Avondale, Glendale, Litchfield Park, AZ

Project Manager responsible included updating traffic study and developing concept alternatives for the development of 3 miles of arterial road to a fully improved six-lane urban section with raised median, concrete curb and gutters, closed storm drain, lighting, signing, and intersection configurations. Project also included developing new intersection configurations including dual left turn lanes for 3 major intersections. The project required close coordination with the Cities of Avondale, Litchfield Park,

Pinnacle Peak Road, 44th Avenue to 35th Avenue; City of Phoenix; Phoenix, AZ

Project Manager responsible for coordination with the client and leading the design team for this roadway project and coordinating with all stakeholders. Project includes new pavement, lighting, storm drains.

107th Avenue, Indian School Road to Camelback Road; City of Phoenix; Phoenix, AZ

Project Manager responsible for coordination with the client and leading the design team for this roadway project and coordinating with all stakeholders. Project includes roadway widening, lighting, storm drains, utility relocation, and multi-agency coordination.

Riverview Drive, 18th to 22nd Street; City of Phoenix; Phoenix, AZ

Project Manager responsible for managing a multi discipline team of transportation, structural, geotechnical, and hydraulic engineers for developing alternatives and final construction documents for a new roadway and bridge at Arizona DOT's drainage channel.

MIKE LOPEZ, P.E.

Design and Utility Management; City of Glendale; Glendale, AZ USA

Project Manager responsible for management of offsite roadway improvements to the Camelback Ranch Sports Facility.

16th Street and Glendale Improvement Roadway; City of Phoenix; Phoenix, AZ

Project Manager and team performed a traffic study and developed intersection improvements to the intersection of 16th Street and Glendale Avenue.

Yuma Road Estrella Parkway to Litchfield Roadway; City of Goodyear; Yuma, AZ

Project Manager responsible for a traffic study and concept alternatives development of 2 miles of rural road to a fully improved six-lane urban section with raised median, concrete curb and gutters, closed storm drain, lighting, signing, and intersection configurations. Project requires coordination with railroad and Phoenix-Goodyear Airport.

MC85 Extension - SR 85 to Turner Road Design; MCDOT; Maricopa County, AZ

Project Manager responsible for the preparation of construction documents for a new 2-mile extension of a county highway including a new intersection with Turner Road, bridge widening of Turner Road Bridge, and new irrigation canals and distribution works that were impacted with the new alignment. As part of the MC85 Extension project to SR 85, the Turner Road Bridge over the Buckeye Canal needed to be widened. The existing 21-inch deep precast voided slab structure was widened with 18-inch deep precast voided slab units to avoid encroachment on the Buckeye Canal freeboard. The new slab units are integrally connected to the extended abutments and tied to the existing slab units with transverse prestressing.

Camp Navajo Veterans Drive; Arizona DEMA; Camp Navajo, AZ

Project Manager responsible for providing engineering management and transportation design services to the Arizona Department of Emergency and Military Affairs for the widening and realignment of Veterans Drive, a two-lane asphalt concrete roadway with paved shoulders. Challenges included rolling terrain, railroad crossings, wetlands, and other environmentally sensitive areas that needed to be avoided and/or mitigated.

On Call Assignment J; MCDOT; Various Locations, AZ

Project Manager responsible for preparation of scoping documents for more than 120 roads. Work includes preparation of calculations of construction quantities, construction cost estimates, identify utility conflicts, identify rights-of-way issues, identify drainage issues, determine permitting requirements, determine if Design Exceptions will be needed, and identify environmental issues.

Low Volume Roads; MCDOT; Various Locations, AZ

Project Manager responsible for managing the design team for the preparation of plans, specifications, and estimate for the paving of multiple Low Volume Roads.

Siphon Draw Wash Drainage Improvements Project; FCDMC; Goodyear, AZ

Project Manager responsible for managing a multidiscipline team of hydrologic, hydraulic, structural, and geotechnical engineers for design and construction documents for a 270-acre-foot, multi-use drainage facility consisting of a stepped drop spillway structure; large multi-barrel inlet and outlet structure; and concrete channel. An existing residential development was constructed in the path of a 100-year floodplain without the ability to handle flooding for that size event. In addition to flooding, the area also includes many active fissures. Stanley Consultants developed a detention basin upstream of the development that could attenuate the flows to a manageable size. In addition to sizing the basin, it was fissure-proofed. Stanley Consultants developed fissure mitigation consisting of low strength concrete and geotextile fabric. This project required extensive knowledge of fissures. Once completed, the project reduced the flooding hazard to homes in the area.



BRIAN RILEY, P.E.

Principal Transportation Engineer
Stanley Consultants

18 Years of Experience 17 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, Arizona State University

Professional Registration

Civil Engineering: AZ #45657

Professional Societies

- » Member of American Society of Civil Engineers.

Brian's has experience in widening and reconstruction of multiple arterial intersections. Responsibilities also include roadway corridor design, engineer estimates, quantities, and special detail design for municipal, county, and state projects. Brian has filled the roles of project designer through field inspector on multiple roadway projects. His responsibilities include roadway corridor design, arterial intersection design, and major urban freeway design. Responsibilities also include engineer estimates, quantities, special detail design, and utility identification and coordination.

PROJECT EXPERIENCE

Country Club Drive FUTS at I-40; ADOT; Flagstaff, AZ

Project manager responsible for study and final design of last remaining piece of the Country Club Drive Flagstaff Urban Trail System (FUTS). The project connected two existing FUTS facilities, one on the north side of I-40 and the other on the south side. The project included design of 10' wide FUTS pathway, ADA ramps, signal and lighting relocation, a raised median, retrofitting the existing bridge over I-40 for upgraded pedestrian fence, and landscaping.

Page Roundabout: US 89-Haul Road; ADOT; Page, AZ

Project manager for this intersection improvement project that required converting permit plans to ADOT design standards. Design components included geometric revisions to roundabout to accommodate houseboat "super hauler", utility coordination and relocation assistance, signing, striping, maintenance of traffic, special provisions, estimating, and project clearances.

SR24 Gateway Freeway; ADOT; Mesa, AZ

Transportation Engineer and Project Engineer responsible for overseeing the roadway design and coordinating the design with all other disciplines including drainage, structures, traffic, and all subconsultants. Worked closely with ADOT to review and resolve comments on the plans.

SR 303L - Happy Valley Parkway to Lake Pleasant Parkway; ADOT; Peoria, AZ

Project Manager responsible for the design and management of roadway, onsite and offsite drainage improvements, lighting, FMS, and electrical controls. Managed coordination and design of the two-span post tension box girder bridge. Prepared a CLOMR to FEMA related to work in the Agua Fria River Floodplain. Worked with ADOT and consultant on an adjacent project to repackage both sets of plans to achieve earthwork balance.

SR89 Center Street to Chino Valley; ADOT; Phoenix, AZ

Project Engineer responsible for the initial geometric layout on ADOT's first CMAR project. SR89 serves as a major corridor between Prescott and Chino Valley. The project involved design of phased improvements, which fully reconstructed existing SR89 to a four-lane raised median section. The design considered the addition of a future travel lane and right-turn lanes with concrete curb and gutter and sidewalk. The project included extensive utility coordination and relocation required for overhead electric, gas, and communications utilities.



ISAAC MCCULLOUGH, P.E., L.S.I.T.

Senior Civil Engineer

Stanley Consultants

18 Years of Experience 10 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, Arizona State University

Associate of Science, Survey/Mapping, Phoenix College

Professional Registration

Land Surveyor-in-Training: AZ #10617

Civil Engineering: AZ #50946

Professional Societies

- » Member - Arizona Public Land Surveyor Association, Central Chapter
- » American Society for Civil Engineers, Student Chapter for Arizona State University.

Isaac's experience has been focused on design of Valley transportation projects. This experience includes geometrics, roadway design, utility coordination, earthwork, cost estimating, and roadway design utilizing Civil 3D and InRoads software. He has served as roadway designer for transportation projects for MCDOT and the cities of Phoenix, Mesa, Glendale, Avondale, Peoria, and Litchfield Park. In addition to transportation projects, Isaac has helped design and estimate costs on federal and county drainage projects. His work included investigating utility impacts, preparing utility relocation plans, and preparing project cost estimates including utility relocation costs.

PROJECT EXPERIENCE

Northern Parkway, Reems Road Overpass; MCDOT; Maricopa County, AZ

Roadway Engineer responsible for the geometrics, and earthwork modeling for the overpass approaches for the 345-foot, three span bridge over Reems Road as part of the Phase I Northern Parkway project.

Northern Parkway, Dysart Road to 111th Avenue; MCDOT; Maricopa County, AZ

Roadway Engineer. This project includes the final design and construction plans, specifications, and estimates for the Phase II Northern Parkway, Dysart Road to 111th Avenue project.

MC85 Extension - SR85 to Turner Road, MCDOT

Roadway designer responsible for the geometrics, utility coordination, earthwork modeling and the preparation of the final PS&E documents for the 2-mile extension of a county highway including the intersection with Turner Road, bridge widening of Turner Road Bridge, and irrigation canals and distribution works that were impacted with the new alignment.

On-Call for Dysart Road-Indian School Road to Glendale Road MCDOT

Project engineer responsible for the development of concept alternatives, identifying possible utility conflicts, additional right-of-way needs, and generating 40% roadway plans, construction quantities and cost estimate for the enhancement of 4 miles of arterial road to a fully improved six-lane urban section with raised median, concrete curb and gutters, and intersection configurations. Project also included developing new intersection configurations including dual left turn lanes for 4 major intersections. The project required close coordination with the Cities of Avondale, Litchfield Park, and Glendale.

On-Call for Low Volume Roads Dust Mitigation Program, MCDOT

Roadway engineer responsible for several work assignments that included the design of many rural unpaved low volume roads and improve them into two lane paved local roads all throughout Maricopa County. The main goal of the low volume road program was to suppress the dust generated from the more frequently traveled unpaved roads to improve county wide air quality and other significant concerns. Work included developing design and construction schedules, identifying and resolving utility conflicts, coordinate right-of-way acquisition, calculate construction quantities, and generating final P.S.&E construction documents.

ISAAC MCCULLOUGH, P.E., L.S.I.T.

On-Call for the Low Volume Roads Program Project Assessments, MCDOT

Roadway engineer responsible for the preparation of scoping documents for more than 120 low volume roads. Work included site visits, the preparation of calculations of construction quantities, construction cost estimates, identifying and documenting utility conflicts, rights-of-way issues, drainage issues, environmental issues, determine permitting requirements, and determine if Design Exceptions will be needed prior to design.

McCartney Road At-Grade Crossings; Pinal County Department of Public Works, AZ

Roadway Engineer. Pinal County contracted Stanley Consultants for the design of culvert systems to replace four at-grade crossings along McCartney Road between I-10 east to Overfield Road as well as the vertical realignment of the roadway.

Veterans Drive at Camp Navajo, MILCON, Arizona Department of Emergency and Military Affairs

Roadway Engineer, evaluated different horizontal and vertical alignments to bring the current alignment into compliance with AASHTO while minimizing cost and impacts to the surrounding landscape. Also provided supervision and inspection during construction.

Riverview Drive 8th Place to 22nd Street, City of Phoenix

Roadway Engineer, Worked and coordinated with other adjacent construction projects, coordinating driveway access with adjacent developments and worked with City staff on the design of the 12-inch waterline connection.

107th Avenue, Indian School Road to Camelback Road, City of Phoenix

Roadway Engineer, working closely with the geotechnical subconsultant in finding ways to reduce project cost with pavement saving, milling and overlay, as well as with full pavement removal.



TED SMITHWICK, P.E.

Senior Transportation Engineer

Stanley Consultants

11 Years of Experience 3 Years with Stanley Consultants

Education

Master of Business Administration,
Arizona State University

Bachelor of Science, Civil
Engineering, University of Arizona

Professional Registration

Civil Engineering: AZ #52634

Professional Societies

» Member - American Society of
Civil Engineers

Ted's experience includes planning and designing freeways and TIs, as well as rural highways and urban arterial streets. He has developed roadway alternatives for concept-level projects, while also focusing on the details of final design through utility coordination, earthwork, quantity calculations, and roadway design using Bentley's MicroStation and InRoads software. He has served as the lead roadway engineer on the I-10/Houghton Road TI, the SR 202L/Lindsay Road TI, and the I-19/Ruby Road TI. Ted has also worked extensively on the I-19/Ajo Way TI, the SR 260 I-17 to Thousand Trails project, and on SR 89 from SR 89A to Deep Well Ranch Road.

PROJECT EXPERIENCE

I-17 / Indian School Road TI DCR; ADOT; Maricopa County, AZ

Lead Engineer responsible for planning and design efforts for Arizona's first three-level TI concept. The three-level concept would create a flyover bridge for Indian School Road traffic to bypass I-17 ramp intersections. Removing Indian School Road traffic from the ramp intersections would relieve and improve traffic operations.

Gilbert SR202L/ Lindsay Road TI/DCR; Town of Gilbert; Gilbert, AZ

Lead Engineer for DCR which considered four alternatives including a SPUI, DDI, diamond, and modifications at the Lindsay Road TI. The TI did not provide access to Santan SR 202L and reconstructing the TI provided access to the freeway. In this area of the SR 202L, there are several large earthen berms that required relocation. Furthermore, the Roosevelt Water Conservation District has facilities within the TI area that required extensive coordination. Lastly, the Town of Gilbert moved forward with the design of two CIP projects that connected to the TI, which also required consideration and coordination.

I-17 (Anthem Way to Cordes Jct) DCR; ADOT; Maricopa and Yavapai Counties, AZ

Lead Engineer responsible for planning and design efforts for this large and complex project. Developed short- and long-term concepts that added capacity and provided much-needed incident management on Black Canyon Hill north of Black Canyon City. Over one million cubic yards of rock excavation and over one million cubic yards of roadway requires excavation through various parts of the project. Ted also led the research and design on Arizona's first reversible lane facilities that was considered on this project.

I-19 / Ajo Way TI, ADOT, Tucson, AZ

Ted served as roadway engineer in a variety of roles for this project. This was a two-phased project with a construction cost of nearly \$80 million. Ted's responsibilities included roadway design of I-19 and Ajo Way. Ajo Way required reconstructing over two dozen driveways. Ted also designed several elements related to traffic control, including I-19 crossover roadways needed for partial freeway closures. Lastly, Ted served as the contractor liaison during construction; phase I of construction was completed in March 2018 and phase II is scheduled to begin in July 2018.

TED SMITHWICK, P.E.

I-10/Houghton Rd TI Phase 1; ADOT; Tucson, AZ

Lead Engineer for feasibility study to complete a DCR for the Houghton Road TI. Stanley considered four TI alternatives including a SPUI, DDI, diamond, and roundabouts. Ted designed, modeled, and developed cost estimates for the four alternatives. He also attended monthly project meetings with ADOT which included Pima County and City of Tucson. This project required extensive coordination with the City of Tucson as the ADOT project connected to a City CIP project that was under design.

South Mountain Freeway; ADOT; Phoenix, AZ

Project engineer responsibilities included delivering the roadway design for the Lower Buckeye Road and Buckeye Road TI designs. He also assisted in developing cross sections, roadway quantities, and staking project wide.

SR 260 (Thousand Trails to I-17) Reconstruction; ADOT; Yavapai County, AZ

Roadway engineer responsible for roundabout design on Thousand Trails and Coury Road. Thousand Trails is key road that accesses a popular winery in the Camp Verde area. Coury Road serves two car dealerships. Ted assisted with many aspects of roadway design and plan development.

US 95 / Fortuna Wash; ADOT; Yuma County, AZ

Lead engineer for this roadway reconstruction project that included significant coordination with bridge construction. Furthermore, there was considerable construction debris in the wash area that required special details. During construction, Ted served as contractor liaison to ensure that the project was constructed in a timely manner.

US 70 (Safford to San Jose) Pavement Rehabilitation; ADOT; Graham County, AZ

Lead engineer for 10 miles of pavement rehabilitation, signing/stripping, as well as additional coordination with utilities, drainage, and railroad.

SR 89 (Deep Well Ranch Road to SR 89A) Reconstruction; ADOT; Prescott, AZ

Roadway engineer for the proposed roundabout at SR 89 and Perkins Drive. One leg of the roundabout serves a golf course and another leg serves a new road, James Lane. There are significant grade and elevation differences in the project area which required special consideration during roadway design. Overall, this project is approximately one mile and includes the widening of a current two-lane roadway to a four-lane divided highway with a raised center median. James Lane will be constructed that will tie in to the west to the new Willow Creek realignment project, currently underway.

I-19 / Ruby Road TI; ADOT; Nogales, AZ

Lead Engineer for development of concepts for this key TI in southern Arizona which serves significant truck traffic.

12th Street (Avenue B to Avenue A), City of Yuma, Yuma, AZ

Lead engineer for this urban arterial widening project. This project included a new roadway over the East Main Canal. The project had significant coordination with utility companies, right-of-way acquisitions, and drainage engineers.

Silverbell Road (Grant Road to Goret Road), City of Tucson, Tucson, AZ

As roadway engineer, Ted assisted in the roadway design, which included development of roadway quantities and the earthwork package. He also modeled several large retaining walls for the project.

Alvernon Way; Pima County; Pima County, AZ

Lead Engineer: This project was an important project to Pima County to provide an additional biking facility in the county. Dozens of signs were added throughout the project area and Alvernon Way was restriped to provide a bike lane. Parts of the project also had pavement rehabilitation.



MATT DASEN, P.E.

Senior Transportation Engineer
Stanley Consultants

11 Years of Experience 4 Years with Stanley Consultants

Education

Bachelor of Science, Civil
Engineering, Arizona State
University

Professional Registration

Civil Engineering: AZ #52082

Matt has 11 years of experience working on transportation projects throughout Arizona. He is familiar with Arizona Department of Transportation (ADOT), Federal, Maricopa County Department of Transportation (MCDOT), and Pima County Standards. His experience includes roadway design; pedestrian pathway design; grading; removals; construction sequencing and detours; plan preparation; quantities, estimates and earthwork; preliminary (conceptual) design; final design; and urban and rural roadway projects. Matt has experience with design-build, design-bid-build, and construction manager at risk (CMAR) delivery methods.

PROJECT EXPERIENCE

South Mountain Freeway; Arizona Department of Transportation; Phoenix, AZ

Lead Roadway Engineer responsible for the design of seven miles of new urban freeway including mainline, ramps, frontage roads, and cross roads. Matt also produced preliminary design of a future system traffic interchange. Stanley Consultants is part of a team responsible for design and construction of the South Mountain Freeway Connect 202L Project. This is a 22-mile freeway that will provide a long-planned direct link between the East Valley and West Valley, Phoenix, AZ, and a much-needed alternative to Interstate 10 through downtown Phoenix. The project will provide a high-capacity freeway with four lanes of traffic in each direction including HOV lanes, rubberized asphalt, multi-use trail, access-controlled interchanges and aesthetics that reflect the nearby communities.

SR260 Thousand Trails Final Design; Arizona Department of Transportation; AZ

Roadway Designer prepared the final design for two of the seven roundabouts included in this project.

SR202L Design Build; Arizona Department of Transportation; AZ

Lead Roadway Engineer responsible for the technical proposal and final design of a seven-mile segment of HOV median widening along SR 202L.

Northern Parkway, Dysart Road to 111th Avenue; Maricopa County Department of Transportation; Glendale, El Mirage, Peoria, AZ

Lead Roadway Engineer responsible for the final design of urban parkway. This project included the final design and construction plans, specifications, and estimates for the Phase II Northern Parkway, Dysart Road to 111th Avenue project.

I-17 DCR and EA, Black Canyon to SR 69; Arizona Department of Transportation; AZ

Lead Roadway Engineer responsible for the conceptual design of three near-term and three long-term alternative concepts of rural freeway. This study developed and evaluated corridor widening and realignment alternatives for I-17, as well as interim (short-term) improvements, to improve traffic operations and to accommodate projected traffic volumes in the 2030 design year.



FRED ROUSE JR., P.E.

Principal Environmental Engineer

Stanley Consultants

44 Years of Experience 23 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, San Jose State University

Professional Registration

Civil Engineering: IN #PE60017833

Civil Engineering: AZ #28957

Civil Engineering: NV #18075

Civil Engineering: UT #6437993-2202

Civil Engineering: CA #C28215

Professional Societies

- » Member - Water Environment Federation (WEF)
- » American Society of Civil Engineers (ASCE)
- » Arizona Water Association (AZWA).
- » Engineers Without Borders (EWB)

As a Senior Environmental Engineer, Fred provides technical leadership to the environmental engineering discipline including quality assurance program, planning, recommending standards, policies, procedures and methods for the environmental engineering discipline. He has served in the capacity of Project Manager, Technical Manager, Lead Environmental Engineer, Project Engineer and Design Engineer for development of municipal, government, and industrial clients. His professional experience encompasses all phases of projects that include NPDES & APP, Permit Preparation, Wastewater Treatment Plants, Water Treatment Plants, Wastewater Lift Stations, Water Booster Pump Stations, Storm Water Pump Stations, Sanitary Sewers, Storm Sewers, Water Distribution, Transient Flow Analysis, and Site Development. Project phases have included grant applications and administration, construction document preparation, bidding construction permit preparation, construction submittal review, and construction review.

PROJECT EXPERIENCE

Site Improvements, South Tempe Water Treatment Plant; City of Tempe

QA Reviewer responsible for Quality Control reviews of the plans and specifications for Task No.3 - Design of Two New Decanting Drying Beds for Spoils from Water Main Breaks and Storm Drain Cleaning. This task included an evaluation and design for two new decanting drying beds, and related drain lines.

Northern Parkway, Dysart Road to 111th Avenue; MCDOT

Environmental Engineer responsible for design of the 12-inch Water Line Extension in Glendale, AZ as part of the Northern Parkway Project.

Lift Station 43 Improvements Study; City of Phoenix

Hydraulics Engineer who performed Transient Flow Analysis using KY Pipe Surge 2012 software for Lift Station No. 43 to Develop Surge Mitigation Alternatives during Lift Station Design Concept Report Phase. Prepared write-up for Transient Flow Analysis Section of Design Concept Report.

Loop 303 Well Equipping Design; City of Peoria, AZ

Project Engineer for design of this well equipping project. The Loop 303 Well has a 1,200 gpm capacity and includes a gas chlorination facility. The pump motor is 150 HP. A Deep Well Control Valve in conjunction with a Solenoid Discharge Check Valve was provided for surge control. Onsite detention and dry well is provided. A discharge hose connection is provided to discharge well testing water to ADOT drainage channel adjacent to SR303.

Well Equipping Design; EPCOR; Phoenix, AZ

Project Engineer / Technical lead for design of two well equipping projects for EPCOR Water Arizona (NEAF Well #100.3 and SC Well #8.3B. Well 3B included chlorine disinfection. Well 100.3 was designed for 1,600 gpm capacity and preliminary design for Well #8.3B was 1,550 gpm. Both projects included a design concept report. Deep Well Pump Control Valves in

FRED ROUSE JR, P.E.

conjunction with Solenoid Discharge Check Valves were provided for surge control. Onsite detention and dry well is provided at Well #100.3 and detention only is provided at Well #8.3B.

Lift Station 42 Study and Analysis; City of Phoenix

Hydraulics Engineer responsible for performing a Surge Analysis of Existing Lift Station Configuration and Proposed Lift Station configuration. Provided recommendations for elimination of cavitation and negative pressures due to sudden pump trip

16th Street Tank Recoating Design and Construction; City of Yuma

Project Manager for interior coating of 16th Street Ground Storage Tank No. 2, addition of three 6-inch diameter flanged nozzles, new 36-inch manway entrance, replacement of cathodic protection and wiring, and addition of two sample taps and hose bibs. Fred was responsible for complete package. Also, the exterior recoating of All three (3) tanks and above ground piping using lead paint encapsulation and requiring vacuum grinding to protect the environment. The color design was to match the Friendship Water Tower color scheme.

Tierra Del Rio Well Facility Analysis and Design; Pulte Homes; Peoria, AZ

Project Manager responsible for updating plans and specifications for client well site SC Well No 9.4 to incorporate AAWC comments for civil, mechanical, and electrical requirements. Fred provided engineering analysis and design services for the final piping, electrical, and instrumentation design for Well SC-9.4. The well facility is part of the Arizona-American Water Company potable water delivery system serving the area. Well SC-9.4 has a capacity of 750 gpm.

Well 99th Avenue and Rose Garden Lane; City of Peoria

Project Manager responsible for design and management of equipping a potable well in Peoria, Arizona. The well capacity is 1,500 gpm and pumps directly into system. The project included chlorination, landscaping, decorative wall design, and noise study. The well capacity is 1,500 gpm and pumps directly into the City's 16-inch water transmission main at a constant pressure of 75 psi. Construction documents included well pump equipment; hydraulic analyses; chlorination system and building; instrumentation, controls and electrical design with SCADA system; piping and yard plans; perimeter wall design and associated landscaping; and noise abatement. The total dynamic head of almost 800 feet required the installation of a 400 HP vertical turbine pump.

Anthem Well No. 3 Plans, Specifications and Permitting; Arizona American water; Phoenix, AZ

Project Manager Responsible for preparation of permit application for emergency water supply well. Prepared site plan and specifications for drilling emergency water supply well. This project included preparation of the plans and specifications and all permitting for well development. The wells are part of the aquifer recharge and recovery system.

Brine Evaporation Ponds Maintenance; City of Chandler

Project Engineer responsible for the design of three wastewater monitoring stations at the INTEL facility in Chandler, AZ. Stanley Consultants provided construction (dredging) oversight and on-call engineering services for the dredging of the brine evaporation ponds in Chandler, Arizona. These ponds are used to dispose of Reverse Osmosis (RO) reject water from the City of Chandler RO treatment plant which treats wastewater from Intel.

Zone 19 Reservoir and Pump; City of Prescott

Project Manager responsible for the design of the Zone 19 Pump Station with a design capacity of 1,200 gpm with three pumps running and one standby pump.

SR 24 Gateway Freeway; ADOT

Design Engineer responsible for design of inverted siphon dewatering lift station to dewater the siphon in less than 36 hours. The capacity is 180 gpm. Also, was responsible for the relocation of 16-inch diameter water and 10-inch diameter force main to avoid drainage structure. Prepared design of future irrigation waterlines and meter setups.



NATHAN NUTTER, P.E.

Senior Water Resources Engineer

Stanley Consultants

17 Years of Experience First Year with Stanley Consultants

Education

Bachelor of Science, Mechanical Engineering, Stanford University

Professional Registration

Civil Engineering: AZ #44720

Mechanical Engineering: AZ #52220

Civil Engineering: CA #80418

Civil Engineering: NV #024971

Professional Societies

- » Arizona Water Association
- » American Society of Civil Engineers
- » California Groundwater Resources Association

Nathan has 17 years of experience in planning, design, permitting and construction administration of water and wastewater supply, collection and treatment systems. He specializes in well technology including aquifer storage, and recovery (ASR) wells, standard production wells, injection wells, and vadose zone wells. Using his technical knowledge and experience, Nathan prepares quality construction plans and specifications and is well respected for pioneering and developing new technologies and methodologies for ASR well installation on a national and global level, including glass beads, dechlorination of injected water, well optimization, and reverse-siphon recharge start up. contribution to ASR developments in the ASR industry.

PROJECT EXPERIENCE

Avondale Blvd Forcemain/Sewer Connection Project, Avondale, AZ

Developed 5 alternatives for connecting a new 12-inch forcemain to an existing 36-inch sanitary sewer, then designed the chosen alternative. Project also included permitting the project with Maricopa County Environmental Services Department.

Avondale Blvd Pressure Reducing Valve (PRV) Station Design, Avondale, AZ

This project included engineering services for design of a new PRV station along Avondale Blvd and north of Broadway Rd, so control flows to Phoenix International Raceway (PIR). The PRV design was specialized to allow variable flows through it through 8" and 4" PRV's, depending on system demands, with variable flows between 0 – 3,250 gpm

Wells Program, City of Phoenix, AZ

Project manager for 3 production wells and associated arsenic treatment and chlorine dosing system designs. Production rates range between 1,000 gpm and 2,000 gpm. Arsenic will be treated using sorptive media vessels. Chlorination systems will be batch dosing systems, chlorine gas systems, or a combination of the two. The well sites will be located within existing booster pump station facilities. Also acted as program manager for this project with previous firm. Responsibilities included managing engineering budgets and schedules for 3 separate design consultants, assisting the City with internal coordination such as Contract Department reviews of submitted documents and Remote Facilities operation preferences, and developing drawing, specification, and report templates for 10 wells (3 production wells with arsenic treatment and 7 aquifer storage and recovery wells).

Deer Valley Water Treatment Plant ASR Well Design, City of Phoenix, AZ

Responsible for managing design of the City's fourth ASR well, which is located at an existing water treatment facility. Project components include designing a new well pump and discharge piping for ASR operation; tying into the existing 80-mgd water treatment facility; coordinating the integration of programming into the existing water treatment plant's distribution control system related to ASR well operation; chemical dosing, nitrate analyzer, sodium bisulfite dosing system for dechlorination of potable supplies prior to injection; and all electrical and instrumentation associated with the new well. The well is anticipated to recharge at a rate of 1,200 gpm and recover at a rate of 1,500 gpm.

NATHAN NUTTER, P.E.

Cave Creek Water Reclamation Plant ASR Pilot Program Design and Construction Administration & Inspection (CA&I) Services, City of Phoenix, AZ

Project manager for the ASR pilot program. The project included equipping of a new 1,500-gpm ASR well for reclaimed water. The design incorporated a unique pump application due to the inclusion of a down-hole control valve, glass bead filter pack, and reclaimed water application. Performed hydraulic calculations to size the motor and subsequent pipeline, incorporated new electrical and mechanical systems into the existing site parameters, and designed a sodium bisulfite dechlorination system to reduce chlorine residual prior to injection into the aquifer. Permitting included work with all state and local regulatory agencies. Also conducted CA&I services during construction, including submittal reviews, reverse flow testing for recharge start-up, biweekly meetings, special inspection visits, training material, and commissioning of the well. Continued involvement assisting the City identify well health and suggested operational modifications based on recharge activity.

Vadose Zone Injection Well, City of Goodyear, AZ

Project manager for the well sitting study that the City permitted inclusive of five vadose zone wells to obtain recharge credits rather than discharge reclaimed water supplies for no credit. The project involved a well siting study for the wells, overseeing the consultant who specified and controlled well drilling and installation, overseeing well equipping, and providing construction management services.

Water and Sewer Pipelines Design-Build, City of Goodyear, AZ

Project engineer responsible for design and pre-construction services to increase the capacity of the existing influent sanitary sewer and addition of water and sewer services for a new service area to accommodate growth in local area.

ASR Wells 29 and 30, City of Woodland, CA

Project manager for the design of two ASR facilities to take off-season treated water from the new regional surface water treatment plant and inject into the wells for extraction to meet peak summer demands. Design included two new CMU buildings, demolition of existing wells/facilities, new 2,000 gpm ASR well pumps, multiple monitor wells, chlorine dosing systems, and strategic control methodology for ASR well operation and performance.

2013 Water System Improvements, Salt River Pima-Maricopa Indian Community, Scottsdale, AZ

Project engineer responsible for designing three new well sites and coordinating the rehabilitation of one existing well site. Project design included new 2.5-MG concrete storage tank, arsenic treatment facility, administration building, electrical building, chemical building, adobe perimeter wall, three new well sites with their own electrical equipment, and rehabilitation of an existing booster pump station and well pump facility. New wells are anticipated to produce approximately 1,500 gpm, each equipped with a 200-hp motor.

West Phoenix Power Plant Well #1 Design and Construction, Arizona Public Service, Phoenix, AZ

Project manager responsible for design of a new well pump, discharge piping, electrical and instrumentation equipment, and pre-fabricated building. Acted as project engineer to design the well pump, wellhead, discharge piping, and grading and drainage. The pump can deliver 2,500 gpm. The motor is 500 hp, equipped with a VFD.

Well No. 2 Equipping Design, City of Prescott, AZ

The project involved equipping a new 1,050-gpm production well, design of a 12-inch gravity pump-to-waste discharge line, and complete well site development (electrical and mechanical building, removable wellhead enclosure, tablet chlorinator disinfection system, and site grading and perimeter wall). Plans, specifications, cost estimate, and bid assistance were project deliverables.

Well No. 3 Equipping Design and Engineering Services During Construction (ESDC), City of Prescott, AZ

Project manager for the drilling, design, permitting, and construction of a new production well. Provided well drilling and permitting coordination, as well as design and construction administration services for a new, 2-acre well site in the City distribution system. Design components included well discharge piping, adsorptive media arsenic treatment system, electrical gear, and tablet feeder disinfection system. The well was designed to produce 950 gpm. The mechanical and electrical systems are enclosed in a CMU building.



LARRY LEISCHNER, P.E.

Senior Environmental Engineer

Stanley Consultants

33 Years of Experience 16 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, Arizona State University

Professional Registration

Civil Engineering: AZ #24001

Civil Engineering: UT #5270880-2202

Civil Engineering: TX #102678

Civil Engineering: NV #21425

Civil Engineering: LA #36559

Environmental Engineering: MN #49398

Professional Societies

- » Member - AZ Water Association, Water Distribution Committee Chair

Larry's experience includes project management, study, design, cost estimating, and construction inspection services for water and wastewater facilities. Key projects include booster pumping facilities, wellhead facilities, sewage lift stations, and sludge pumping stations. He has designed over 60 pumping facilities including 33 Sewage Lift Stations and 4 Self-Cleaning Style Sewage Lift Stations. Sewage lift stations designs range in capacity from 0.5 MGD to 30.0 MGD. His design includes both wet pit and dry pit installations. Larry has designed seven biofilters including both wood chips and Bohn soil media. Potable water pumping stations have ranged in size from 265 GPM to 170 MGD. He has designed wellhead facilities that ranged in size from 375 gpm to 1500 gpm. Specialized experience in design of pumping facilities, include hydraulic analysis, pump sizing and selection, pump cans, hydropneumatic tank sizing, suction and discharge piping, control valves, equipment selection and layout, instrumentation and control, and operation and maintenance manuals.

PROJECT EXPERIENCE

West Anthem Lift Station, Force Main and Gravity Sewer Final Design; Phoenix, AZ; City of Phoenix

Project Manager for the wastewater collection service to the West Anthem area in the north Phoenix area and eliminate dependency on EPCOR the local utility company. Project includes the preliminary and final design of 9,500 linear feet of 18-inch and 21-inch gravity sewer, a 4.3 MGD sewage lift station (0.5 MGD initial capacity), 5,500 linear feet of triple barrel 6 inch and 14-inch diameter force main, and two major roadway crossings at I-17 and the Carefree Highway.

Lift Station 43 Improvements; Phoenix, AZ; City of Phoenix

Project Manager responsible for study and design of the lift station facility features and forcemain. Study included the forcemain size, forcemain configuration and capacity, mechanical piping, pump capacity, wetwell storage volume, surge analysis, electrical systems, and instrumentation and control systems. The facility design included new pumping equipment, new mechanical valves and piping, replacing the VFDs with soft starts, new intermediate termination, and new magnetic flow meter.

Lift Station No. 40 Biofilter Improvements; City of Phoenix; Phoenix, AZ

Quality Control Reviewer responsible for the review and design guidance of the biofilter improvements. The project included a new biofilter to relieve use of the existing chemical absorption scrubber. The biofilter is a Bone technology type unit based on design treatment rate of 3 cubic feet per minute. The biofilter included an under drain system to prevent excessive moisture buildup in the filter bed, automated sprinkler system, protective fence in the ADOT right-of-way, and mechanical ductwork for the optional use of the biofilter or the existing scrubber.

2.8 MGD Lift Station No. 42 Study and Final Design; Phoenix, AZ; City of Phoenix

Project Manager responsible for study and final design of the lift station facility features and forcemain. The facility recommendations included replacing the wetwell, new pumping equipment, new mechanical valves and piping, replacing the VFDs with soft starts, new

LARRY LEISCHNER, P.E.

power feed breakers, new SES, new intermediate termination panel, new magnetic flow meter, and SCADA modifications. Final design included completion of contract drawings and specifications and cost estimate for the recommended improvements.

Laveen Pump Station and Force Main; City of Phoenix; Phoenix, AZ

Project Manager responsible for the preparation of a location and alignment study, design report, final design, and contract documents for the 25.0 mgd sewage lift station and 1.5 miles of triple barrel 24-inch force main. The final design included a wetpit/drypit pumping arrangement with four drypit submersible pumps with VFD's. Other facilities included the double barrel force main with a 45-foot cover with the Salt River, odor control facilities, chemical feed facilities, two discharge structures, meter vault, bypass facilities, site development, and landscaping. Key issues included a 404 Permit to cross the Salt River, right-of-way and easement acquisitions, right-of-entry, and a building permit through the City of Phoenix Development Services.

Reservoir and Pump Station No. 126 and Pima Road Waterline; City of Scottsdale; Scottsdale, AZ

Project Manager responsible for the preparation of a design concept report, waterline alignment study, reservoir siting study, final design and contract documents for a 1.0 MG reservoir, 10.0 MGD booster pump station and one mile of 36-inch diameter water transmission main. Final design included multiple valve vaults, hydropneumatic surge tanks, standby power, architectural building for pumping equipment, chlorine feed, chlorine gas scrubber and electrical I&C.

Zone 19 Booster Pump Station Project (1,200 gpm); City of Prescott; Prescott, AZ

Quality Control Reviewer responsible a technical review to ensure the project was accordance with QA/QC standards. The review included hydraulics, plans, and specifications.

City of Peoria, 1,200 GPM SR Loop 303 Well No. W301, Peoria, AZ

Project Manager responsible for the design and management for the equipping of this potable well for the City of Peoria. The construction cost was \$1.6 million including well equipping, installation of a vertical turbine line-shaft type well pump with a total dynamic head of over 400 feet and a 150 HP premium electric motor drive. Also, included 600 LF of 16-inch DIP waterline, chlorination system and building, discharge well flushing structure, on-site stormwater retention basin with drywell, electrical/I&C system with a standby generator, decorative eight-foot-tall CMU perimeter site wall, and a pump motor sound enclosure. Project coordination included APS power source and electrical easement, and Kinder Morgan gas easement crossing.

City of Scottsdale, Well Nos. 141 and 123 Design Services; Scottsdale, AZ

Project Manager Potable Well 141 - Stanley Consultants prepared design of wellhead facility for 1,750 gpm vertical turbine lineshaft pump to pump directly into City of Scottsdale distribution system. Well site has chlorine building for on-site chlorination. The well design, well drilling, and well construction were performed under separate contracts by others. The well site includes a 400 hp lineshaft vertical turbine pump, sound enclosure for pump, masonry chlorine building and equipment, chlorine gas scrubber, motor control center (MCC), control panel with SCADA interface, manual transfer switch (MTS) with portable generator connection, 8-foot masonry security wall, drainage features, and landscaping for aesthetics.

Lake Pleasant 78-inch Waterline Alignment Services; City of Phoenix; Phoenix, AZ

Project Manager responsible for the alignment study and preliminary design for 50,000 linear feet of double barrel 78-inch water transmission main. Larry was responsible for coordinating mapping and investigation of alternative routes from the proposed Lake Pleasant WTP to Carefree Highway and 27th Drive. The alignment study included a workshop to discuss alternative alignments, coordination with multiple agencies including ADOT and the ASLD. Preliminary design included survey, aerial mapping and digital imagery, grade and alignment drawings, 404 permit, and a Class III Environmental Survey.

Sanitary Sewer Relief Program Project 3; Phoenix, AZ; City of Phoenix,

Design Engineer responsible for the design of 478 linear feet of 21-inch, 1350 linear feet of 18-inch, and 238 linear feet of 15-inch diameter sanitary sewer in Northern Avenue between west of 31st Avenue and 29th Avenue and on 29th Avenue between Northern Avenue and Loma Lane. The project included the replacement of five existing manholes, the abandonment of two manholes and the installation of eleven new manholes. Replaced sewer pipe located in Northern Avenue was abandoned in place.



MICHAEL LAUKENMANN, E.I.T.

Engineer-In-Training I

Stanley Consultants

3 Years of Experience 3 Years with Stanley Consultants

Education

Bachelor of Science, Civil Engineering, Arizona State University

Professional Registration

Engineer-in-Training: AZ #12085

Michael's experience includes design, cost estimating, development of contract documents, and permitting for water and wastewater facilities. Design experience includes hydraulic analysis for pumping, pressurized flow, and gravity flow, equipment layout, and wet well design. Previous project experience includes design of new lift station, force main, discharge structure, gravity sewer, sewer relief, lift station upgrades, and odor control.

PROJECT EXPERIENCE

10th Street Lift Station Bypass Study, City of Avondale

Project Engineer associated with the study to evaluate a bypass force main alignment for the 10th Street Lift Station. The force main would be approximately 4,600 feet long and convey flows of about 700 gallons per minute (gpm). The bypass would help maintain operational flexibility and provide redundancy. The study included a three alternate alignment study, alternative construction costs, alternate force main material evaluation, and permit requirements.

Site Improvements, South Tempe Water Treatment Plant, City of Tempe

Design Engineer responsible for redesigning drying beds and a basin at the South Tempe Water Treatment Plant. Critical issues solved include improved drying beds for waterline spoil and storm drain spoil.

Water Hammer Hazard Mitigation Project, Sewerage & Water Board of New Orleans

Design Engineer responsible for designing new storm drains for Panola Pump Station, designing sumps and selecting sump pumps for Panola and Pump Room Pump Stations, and realigning utilities. Critical issues solved include storm drain system operation, redundancy for sump pumps, and minimizing conflicts with utilities. Scope includes the replacement of four 40 to 44 MGD pumps at the Claiborne Pump Station and two 45 MGD pumps at Panola Pump Station, for a total of six new 40-45 MGD variable-speed pumps with 60-cycle motors. In addition, there will be the installation of two new 40-45 MGD variable-speed pumps with 60-cycle motors at the low lift station within the power plant along with the installation of slow opening/closing valves with battery backup for each.

Lift Station 42 Operational Improvements, City of Phoenix

Design Engineer associated with designing a new wet well and biofilter for Lift Station 42 and replacing a portion of the gravity line and force main inside the lift station facility. Critical issues solved on this project include system operation and performance requirements, redundancy, flexibility, and improvement availability for future growth.

West Anthem Lift Station, City of Phoenix

Gravity Sewer: Project Engineer responsible for the design, contract documents, permitting, and opinion of probable cost for approximately 9,500 linear feet of gravity sewer from discharge structure south of Pioneer Road and west of I-17 to a tie in point with the existing sewer at Carefree Highway and North Valley Parkway. Ultimate capacity of the gravity sewer will be between 4.8 mgd and 6.09 mgd.

MICHAEL LAUKENMANN, E.I.T.

Force Main: Project Engineer responsible for the design, contract documents, permitting, and opinion of probable cost for approximately 4,700 linear feet of two 14-inch and one 6-inch force main from West Anthem Lift Station to a force main discharge structure south of Pioneer Road and west of I-17. The force main is designed for an interim capacity of 0.5 mgd and an ultimate capacity of 4.8 mgd.

Lift Station: Project Engineer responsible for the design, contract documents, permitting, and opinion of probable cost for the West Anthem Lift Station on North Pioneer Road, north of West Sheriffs Pistol Range Road. The lift station is designed for an interim capacity of 0.5 mgd and an ultimate capacity of 4.8 mgd

Lift Station 43 Operational Improvements, City of Phoenix

Design Engineer responsible for contract documents that provides improvements to the existing lift station. Improvements include installing three new 85 hp pumps, above ground discharge piping with new check valves, air/vacuum release valves, plug valves, magnetic flow transmitters, and crossover bypass. Part of the existing odor control will be removed and replaced with a biofilter. Critical issues solved on this project include increased capacity and odor control.



LANE E. INGRAM, P.E.

Principal Electrical Engineer

Stanley Consultants

24 Years of Experience 20 Years with Stanley Consultants

Education

Bachelor of Science, Electrical Engineering, University of Illinois-Urbana-Champaign

Associate of Science, Parkland College

Professional Registration

Electrical Engineering: IL #062-056679

Electrical Engineering: IA #17368

Electrical Engineering: MI #6201055433

Electrical Engineering: MN #46669

Electrical Engineering: CO #50485

NCEES Record Holder: - #17-034-23

Electrical Engineering: AZ #63292

Electrical Engineering: GA #PE041615

Lane's experience includes electrical system design of power, lighting, and special systems design for educational, industrial, commercial, and governmental clients. His professional experience encompasses analysis, planning, and development of all phases of primary and secondary electrical distribution systems including low and medium voltage; emergency standby power systems; instrumentation and control systems; security and access control systems; lighting equipment systems; lighting design; fire alarm and communications systems; and uninterruptible power supply (UPS) systems. Lane's responsibilities have also included preparation of specifications for selection of electrical equipment and control instrumentation, site inspections, vendor document review, and analyzing electrical and mechanical equipment collected in field studies data.

PROJECT EXPERIENCE

Lift Station 43 Operational Improvements, City of Phoenix

Approver responsible for review of contract documents that provides improvements to the existing lift station. Improvements include installing three new 85 hp pumps, above ground discharge piping with new check valves, air/vacuum release valves, plug valves, magnetic flow transmitters, and crossover bypass. Part of the existing odor control will be removed and replaced with a biofilter.

Price/Santan Freeway (SR 101L & SR 202L) Traffic Interchange; Arizona Department of Transportation; Phoenix, AZ

Prepared final design and preparation of plans, specifications and estimate for a 290 CFS (187 MGD) storm water pump station with natural gas engine drives associated with Price Freeway (L101)/Santan Freeway (L202) Transportation Interchange. The pump station includes five engine driven mixed flow pumps, each capable of pumping 26,000 gpm. One manually controlled pump with a capacity of 2,200 gpm was provided for nuisance flows. Each Engine Drive is rated for 525 HP. An Electric Submersible pump with 3 mgd capacity was provided for dewatering the wetwell. All pumps operate at constant speed and are controlled by a system of level switches. A 10 x 10-foot box culvert inline with the storm drain was used to help attenuate the inflow peak and provide storage volume. Stanley Consultants provided all design services.

TCI Pump Station and Gravity Sewer; Knapp Properties, Inc.; IA

Approver responsible for review of electrical design for submersible pump lift station including utility coordination; conductor and conduit sizing; hazardous area review; and equipment sizing and layout for emergency generator, automatic transfer switch, disconnect switch, and pump control panel.

Wastewater Treatment Plant Renovation; City of Fort Madison; Fort Madison, IA

Stanley Consultants prepared a facility plan update for the existing wastewater treatment plant requiring extensive renovation to maintain treatment viability, improve energy efficiency, address nutrient removal requirements, correct deficient residual solids storage capacity, and provide flood protection. Work included facility condition assessment, process

LANE E. INGRAM, P.E.

evaluations, and development of recommended replacements and upgrades along with associated estimated costs.

Improvements include renovation of grit system, primary clarifiers and sludge decant tanks, final clarifiers, screw lift station, pumping systems, and the control/administration building. The activated sludge process was reconfigured for nutrient reduction and retrofitted with energy efficient fine bubble aeration. The aeration system blowers were reconfigured by incorporating high efficiency screw blowers. The gas chlorine disinfection system was replaced with new equipment with improved contact tank baffling and dichlorination. Two new sludge tanks were constructed extending sludge storage from current 2 weeks to 5 months.

In addition to planning services, Stanley Consultants prepared preliminary and final design documents, assisted with SRF financing, prepared a cost-of-service study with recommended rate adjustments, provided permitting assistance that included anti-degradation analysis, provided bidding and construction phase services.

Storm Water Lift Stations Preliminary Work; City of Waterloo; Waterloo, IA

Lead Electrical Engineer /Approver responsible for providing study and electrical design of two new lift stations and refurbishment of one existing lift station. Project included complete electrical design for lift stations and electrical buildings including utility coordination; conductor and conduit sizing; lighting; and equipment sizing and layout for submersible pumps, sluice gates, manual transfer switches, soft starters, disconnect switches, generator receptacles, and control panels.

Big Creek State Park Pump Station and Force Main; Iowa Department of Natural Resources; IA

Approver responsible for review of electrical design for submersible pump lift station including utility coordination; conductor and conduit sizing; hazardous area review; and equipment sizing and layout for manual transfer switch, disconnect switch, generator receptacle, and pump control panel.

Wastewater Treatment Plant Upgrade; City of Iowa City; Iowa City, IA

Approver responsible for review of design for renovating existing buildings and new facilities with the following design elements: site electrical medium voltage modifications and distribution, emergency diesel generator, building electrical distribution, interior lighting and controls, exterior lighting for dark skies with controlled optics, voice/data system cabling, station patch panels and outlets, new fire alarm systems and extension to existing systems, and access control extension.

Arc Flash Studies, University of Iowa, Iowa City, IA

Project manager responsible for meeting project requirements and client interface on arc flash study of Wendell Johnson Speech and Hearing Clinic and the Boyd Law Building on the University of Iowa Campus. Project included walk down of electrical equipment to gather data, model and perform analyses in SKM, and print and install labels.

A1 Clarifier Rehabilitation, City of Cedar Rapids, Cedar Rapids, IA

Lead Electrical Engineer /Approver responsible for performing design duties which included demolition of the existing equipment and replacement of all underground power and control circuits for the "A1" Clarifier and the Parshall flume area.

EXHIBIT B
TO
PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF AVONDALE
AND
STANLEY CONSULTANTS, INC.

[Scope of Work]

See following pages.

City of Avondale
4th Street Lift Station Upgrade (Project)

Scope of Services

The 4th Street Lift Station (Lift Station) is located on the southeast corner of South 4th Street and East Lower Buckeye Road. The site was last updated in 2006 and consists of a submersible lift station and wet well, grinder building, above-grade discharge piping, biofilter system, and electrical building. The Project design will include mechanical and electrical upgrades at the lift station and post design services.

The Project design will be completed by Stanley Consultants (Consultant) and their sub-consultant (Jensen Engineering) for electrical services to replace three pumps, remove the grinder equipment, eliminate the grinder room bypass channel, provide checker plate over the grinder room channel, add one new wetwell wizard with two diffusers, reline the grinder room channel and wetwell, replace three VFD motor starters, replace the ATS, revise the RTU/ PLC connections, and provide new power and monitoring connection for the Eco Verde biofilter (by others).

The Project post design services will be completed by Stanley Consultants (Consultant), and their sub-consultants (Jensen Engineering) for electrical services and RFI Consultants LLC for NACE certified coating inspections.

The design will be completed within six (6) months of notice to proceed, and construction is estimated to take nine (9) months.

The scope of services is described herein.

Design Services – Task Series 1-3

Post Design Services – Task Series 4

1. DESIGN PROJECT MANAGEMENT SERVICES

The Consultant will perform project management for the services as described in the following subtasks:

1.1 Conducting and Attending Meetings

The Consultant will conduct meetings with City staff to discuss specific technical aspects of the design; progress in the development of the design drawings; and related issues that may affect Project results. The meetings or workshops will consist of the following:

- 1 Kickoff meeting with City and Consultant's main team staff to discuss the overall scope of services and schedule.
- 2 Three progress meetings with City staff after each submittal.
- 3 Four total meetings.
- 4 The Consultant will prepare and distribute meeting agenda and document meeting results for each meeting.

1.2 Managing Subconsultant

The Consultant will secure services of Jensen Engineering, LLC to provide electrical engineering services. The Consultant will review sub-consultant progress pay requests for accuracy and completeness and make payments as provided in the sub-consultant agreement.

1.3 Monitoring Overall Progress

The Consultant will report the progress of design activities through the use of a computer-based project management and scheduling system, which includes all major task activities. The Consultant will update and review the design schedule and deliverables with the City monthly.

1.4 Provide Monthly Progress Reports

Progress and schedule tracking will consist of:

- 1 Developing a detailed Project design and deliverable schedule by task.
- 2 Monthly tracking and reporting on progress including tasks completed and tasks scheduled for the next month.
- 3 Monitoring and management of sub-consultants' scheduled activities.
- 4 Submitting the monthly progress report with the monthly billing statement (may be submitted separately if City does not want the monthly progress reports to lag with invoicing).

Part 1 Deliverables:

- Meeting and presentation agenda and documentation of meeting actions.
- Reports on design progress and invoicing.

2. DETAILED DESIGN AND CONSTRUCTION DOCUMENTS

The Consultant will prepare for City review as progress is made on Project design and preparation of construction drawings and specifications.

2.1 60% Plans Submittal

These drawings will convey information about the Project's overall appearance and configuration to the City. These drawings are not intended for construction.

- a. Civil:
 - Existing lift station plan and relevant piping is plotted
 - Preliminary drawings include overall layout, and pumping components
- b. Structural:
 - The main inlet channel improvements
- c. Mechanical (includes pumping equipment):
 - Preliminary layout of major equipment
- d. Electrical:
 - Preliminary Single Line Diagram of electrical distribution system
 - Site electrical plan is started.
- e. Instrumentation:
 - General instrumentation and control philosophy
 - Process and Instrumentation Diagram (P&ID) is started

2.2 Mechanical Design

The Consultant will complete the civil/ mechanical design including pump plan, sections and details; wetwell wizard and piping plans and sections; and specifications.

2.3 Electrical and I&C Design

The Consultant in association with Jensen Engineering will complete the electrical, instrumentation and control design including VFD motor starters for three lift station pumps, starter for a new mixer, revisions to the existing RTU/PLC showing connections of the new VFDs and the mixing system, the power and monitoring connection for a new odor control system, and the replacement of the automatic transfer switch.

2.4 Cost Estimate

The Consultant will prepare an opinion of probable construction cost at final design completion. Appropriate amounts for contingency and inflation will be included in the opinion of construction cost to reflect anticipated conditions at the time of construction.

2.5 90% Plans and Specifications Submittal

Drawings and details in all disciplines will be complete. Specifications will be essentially complete. Design calculations in all disciplines will be essentially complete and checked.

Comments on design, drawings and specifications from previous reviews must have appropriate responses before the 90% progress submittal is submitted. Comments from 60% reviews by City staff, any constructability reviews, and review comments from regulatory agencies must have appropriate responses or actions.

2.6 Final Contract Documents Submittal

Drawings and specifications will be complete and accepted by the City. All construction documents will be complete and ready for construction pricing of the work.

Part 2 Deliverables:

- 60% Drawings and Specifications (TOC) – three 11x17 hard copies and one PDF
- 90% Drawings and Specifications – three 11x17 and three full size hard copies, and one PDF
- Final Drawings and Specifications – three 11x17 and three full size hard copies, and one PDF
- Opinions of Probable Construction Cost – two hard copies and one PDF

3. PERMITTING

3.1 MCESD Approval to Construct (ATC)

The Consultant will prepare an ATC application and submit to the MCESD. Any permit requirements will be included in the final contract documents. Permit fees will be reimbursed by the City.

3.2 City of Avondale Building Permit

The Consultant will prepare a City of Avondale Building permit application and submit to the City. Any permit requirements will be included in the final contract documents. Permit fees will be paid directly by the City.

Part 4 Deliverables:

- ATC
- City of Avondale Building Permit

4. POST DESIGN SERVICES - CONSTRUCTION

4.1 Preconstruction Conference

Attend preconstruction conferences

4.2 Construction Progress Meetings

Attend bi-weekly construction progress meetings.

4.3 Review Shop Drawings

In associations with Jensen Engineering the Consultant will receive, evaluate, and distribute (or take other appropriate action in respect of) shop drawings which Contractor is required to submit. Consultant review shall be for conformance with the design concept of the Project and compliance with the information given in the construction documents. Such review or other action shall not extend to means, methods, sequences, techniques or procedures of construction selected by Contractor(s), or to safety precautions and programs associated thereto.

4.4 RFIs

Respond to Avondale's representative and/or Contractor to clarify and/or interpret technical or design related questions. Consultant will respond to issues raised during construction regarding interpretation and clarification of the contractual administrative and technical requirements of the construction documents.

4.5 Review of Work

Stanley Consultants Resident Project Representatives shall maintain a presence at the Project site with sufficient frequency to be knowledgeable about the progress and quality of the work to:

1. Conduct on-site inspections of the work in progress to assist Avondale in determining if the work is proceeding in accordance with the construction documents and that completed work conforms to the construction documents. Wet well coating inspections will be conducted by subconsultant RFI Consultants.
2. Report to Avondale whenever it is believed that any work is unsatisfactory, faulty or defective or does not conform to the construction documents.
3. Verify that tests, equipment and systems start-up and operating and maintenance instructions are conducted as required by the construction documents and in presence of the required personnel.

4.6 Startup Assistance

Startup services shall be sufficient to transfer finished work from a construction status to operating, functional system(s). Such services may include review of contractor's startup plan,

coordination of contractor's startup plan and procedures with Avondale personnel, and witnessing start-up procedures.

4.7 Record Drawings

Prepare a set of record drawings showing those changes made during construction. Record drawing information shall be based on marked-up prints, drawings, and other data furnished by Contractor(s). The original cover sheet with all the signatures and Engineer's seals will be used for the record drawings. Stanley Consultants will prepare the following:

1. One (1) full size black line copies and one (1) half size black line copy to submit to the Avondale. Record drawing information will be added electronically to existing AutoCAD files as the record set.
2. Two (2) sets of electronic files representing record drawing information. One set of electronic files will be AutoCAD files and one set will be PDF files. The electronic files will be supplied on one CD containing both the AutoCAD and PDF files.

4.8 AOC Permit Submittal Preparation/Submission_Prepare "Approval of Construction" submittal package to MCESD and submit for approval.

5. ADDITIONAL SERVICES

The following Additional Services are not included in Design Scope of Services and are at City's option. These services, if exercised by City and agreed to by Consultant, shall be paid for in addition to this Scope of Services. Consultant is not authorized to proceed with performance of any Additional Services unless they are duly authorized, in writing, by City.

5.1 Surveying Services

5.2 Surge Analysis

5.3 Drainage Analysis

5.4 Subsurface Utility Engineering (potholing)

5.5 Bid Phase Services

EXHIBIT C
TO
PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF AVONDALE
AND
STANLEY CONSULTANTS, INC.

[Fee Proposal]

See following pages.



**City of Avondale
4th Street Lift Station Upgrade
Design and Post Design Services Cost Proposal**

Summary

13-Dec-18

Design Services (Task Series 1 - 3)	\$78,288.00
Post Design Services - Construction (Task Series 4)	\$44,787.00
Total Cost Proposal	\$123,075.00

City of Avondale
4th Street Lift Station Upgrade
Design Cost Proposal

13-Dec-18

TASK	QC/ SENIOR ENGINEER	PROJECT MANAGER	CIVIL/ MECH SENIOR ENGINEER	CIVIL/ MECH DESIGN ENGINEER	CIVIL/ MECH SENIOR CADD	LAND SURVEY RLS	SURVEY TECHNICIAN	ADMIN	TOTAL LABOR HOURS	TOTAL STANLEY LABOR FEE	JENSEN TOTAL FEE	STANLEY DIRECT COSTS	TOTAL FEE
LABOR RATE	\$220.00	\$210.00	\$220.00	\$160.00	\$128.00	\$165.00	\$110.00	\$70.00					
1.1 Conducting and Attending Meetings	0	12	0	16	0	0	0	2	30	\$5,220.00	\$0.00	\$120.00	\$5,340.00
1.2 Managing Subconsultant	0	4	0	0	0	0	0	0	4	\$840.00	\$0.00	\$0.00	\$840.00
1.3 Monitoring Overall Progress	0	4	0	0	0	0	0	0	4	\$840.00	\$0.00	\$0.00	\$840.00
1.4 Provide Monthly Progress Reports	0	4	0	0	0	0	0	0	4	\$840.00	\$0.00	\$0.00	\$840.00
2.1 30% Plans Submittal	2	8	0	16	16	0	0	4	46	\$7,008.00	\$0.00	\$100.00	\$7,108.00
2.2 Mechanical Design	0	8	24	40	40	0	0	16	128	\$19,600.00	\$0.00	\$0.00	\$19,600.00
2.3 Electrical and I&C	8	0	0	0	0	0	0	0	8	\$1,760.00	\$18,000.00	\$0.00	\$19,760.00
2.4 Cost Estimate	1	2	0	12	0	0	0	0	15	\$2,560.00	\$0.00	\$0.00	\$2,560.00
2.6 90% Plans and Specifications Submittal	8	8	0	24	24	0	0	6	70	\$10,772.00	\$0.00	\$150.00	\$10,922.00
2.7 Final Contract Documents Submittal	0	12	0	16	16	0	0	6	50	\$7,548.00	\$0.00	\$150.00	\$7,698.00
3.1 MCESD Approval to Construct (ATC)	0	0	0	4	0	0	0	0	4	\$640.00	\$0.00	\$1,500.00	\$2,140.00
3.2 City of Avondale Building Permit	0	0	0	4	0	0	0	0	4	\$640.00	\$0.00	\$0.00	\$640.00
TOTAL	19	62	24	132	96	0	0	34	367	\$58,268.00	\$18,000.00	\$2,020.00	\$78,288.00

**City of Avondale
4th Street Lift Station Upgrade
Post Design Services Cost Proposal**

13-Dec-18												
TASK	SENIOR CONSTRUCTION MANAGER	CIVIL/ MECH SENIOR ENGINEER	CIVIL/ MECH DESIGN ENGINEER	SENIOR CADD	ELEC CONST OBSERVER	ADMIN	TOTAL LABOR HOURS	TOTAL STANLEY LABOR FEE	RFI TOTAL FEE	JENSEN TOTAL FEE	STANLEY DIRECT COSTS	TOTAL FEE
LABOR RATE	\$210.00	\$220.00	\$160.00	\$130.00	\$161.00	\$70.00						
1. Preconstruction Conference	2				3	2	7	\$1,043.00	\$0.00	\$0.00		\$1,043.00
2. Construction Progress Meetings (6 bi-weekly meetings est.)	12				18		30	\$5,418.00	\$0.00	\$0.00		\$5,418.00
3. Review Shop Drawings		4	8		0	16	28	\$3,280.00	\$0.00	\$7,500.00		\$10,780.00
4. RFIs (10 Estimated)		10			6		16	\$3,166.00	\$0.00	\$0.00		\$3,166.00
5. Review of Work (3 month on-site construction duration est.)*	12				0		12	\$2,520.00	\$3,600.00	\$0.00	\$1,200.00	\$7,320.00
6. Startup Assistance					40		40	\$6,440.00	\$0.00	\$0.00		\$6,440.00
7. Record Drawings (Estimate 10 DWGs)	1			40	20		61	\$8,630.00	\$0.00	\$0.00	\$500.00	\$9,130.00
8. AOC Permit Submittal Preparation/Submission	1		4			2	7	\$990.00	\$0.00	\$0.00	\$500.00	\$1,490.00
TOTAL	28	14	12	40	87	20	201	\$31,487.00	\$3,600.00	\$7,500.00	\$2,200.00	\$44,787.00

* Direct Costs - Vehicle Mileage @ \$35/day for 36 days



CITY COUNCIL AGENDA

SUBJECT:

Professional Services Agreement with TY Lin
International - Design Services for El Mirage
and MC85 Right Turn Lane Project

MEETING DATE:

2/4/2019

TO: Mayor and Council

FROM: Tracy Stevens, Development and Engineering Services Director, (623) 333-4012

THROUGH: Charles A. Montoya, City Manager, (623) 333-1016

PURPOSE:

Staff is requesting that the City Council approve a Professional Services Agreement with T.Y. Lin International (T.Y. Lin) to provide design services for the El Mirage Road and Buckeye Road (MC 85) Northbound Right Turn Lane Project in the amount of \$77,680.96 and authorize the Mayor, or City Manager and City Clerk to execute the necessary documents.

BACKGROUND:

El Mirage Road currently has only one northbound lane at Buckeye Road (MC 85). The traffic queue builds and results in delay if one northbound vehicle is waiting to turn westbound onto Buckeye Road (MC 85). In an effort to mitigate the traffic congestion, Staff selected T.Y. Lin from the City's Professional Consultants List (EN 18-111) to assist with the design of a dedicated right turn lane at this intersection.

DISCUSSION:

This project will add a dedicated right turn lane to handle the northbound to eastbound movement at El Mirage Road and Buckeye Road (MC85), reducing the delay at the intersection. The project will require the relocation of existing utilities, as well as the relocation of a Maricopa County Department of Transportation (MCDOT) traffic signal at the southeast corner. Staff will have T.Y. Lin coordinate the review of documents with MCDOT.

SCOPE OF WORK:

The scope of work for the design phase will include:

- Project Management
- Utility Coordination
- Data Acquisition
- Progress Meetings
- Drainage Memorandum
- Construction Document Preparation

SELECTION PROCESS:

Staff recently completed procurement of the 2018-2019 Professional Consultants Selection List (EN 18-111). Staff selected T.Y. Lin from the Transportation Engineering category of the list, as

T.Y. Lin is considered to be a competent, knowledgeable, and highly recommended consultant based on similar projects. Staff requested, received, and negotiated a proposal from T.Y. Lin for engineering services for the delivery of project plans, specifications and a construction cost estimate.

SCHEDULE:

A tentative project schedule is as follows:

Design and Land Acquisition Complete: February 2019 – July 2019

Construction Phase: August 2019 – September 2019

STRATEGIC PLAN ALIGNMENT

Initiative:

Foster Sustainable Community Development

Goal:

Maintain and Expand Quality Infrastructure

Objective:

To install a dedicated north-bound right turn lane at the intersection of El Mirage Road and Buckeye Road (MC85) to reduce delay and improve the level of service to residents

BUDGET IMPACT:

A total of \$320,000 is available in CIP Line Items 304-1459-00-8001/8200/8420, El Mirage Rd & Buckeye Rd – Install NBR Turn Lane, of which \$77,680.96 will be used for this design services PSA.

RECOMMENDATION:

Staff recommends that the City Council approve a Professional Services Agreement with T.Y. Line to provide design services for the El Mirage Road and Buckeye Road (MC 85) Northbound Right Turn Lane Project in the amount of \$77,680.96 and authorize the Mayor, or City Manager and City Clerk to execute the necessary documents.

ATTACHMENTS:

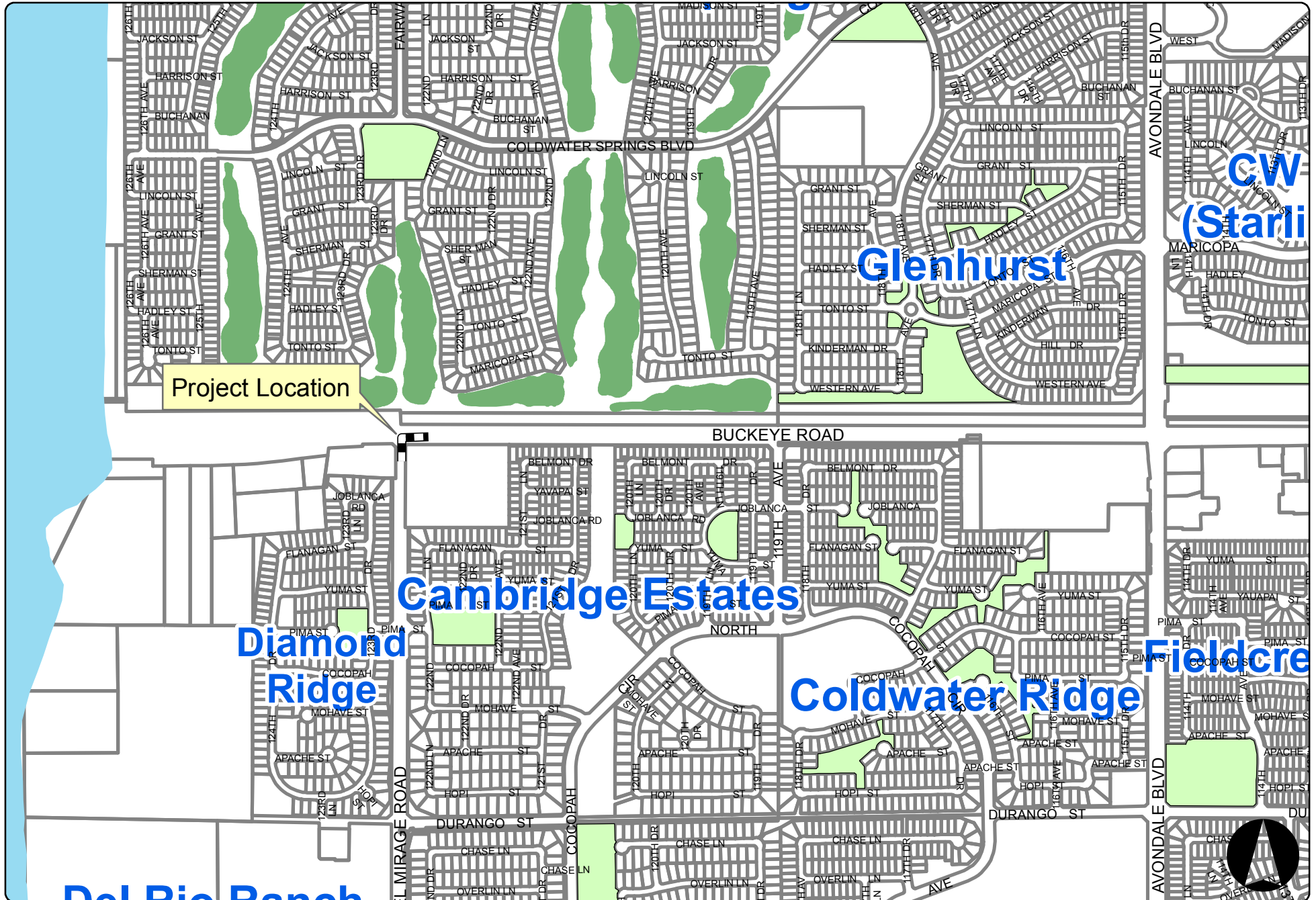
Description

[Vicinity Map](#)

[PSA with TY Lin International](#)

Avondale

Aspiring. Achieving. Accelerating.



**PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF AVONDALE
AND
T.Y. LIN INTERNATIONAL, INC.**

THIS PROFESSIONAL SERVICES AGREEMENT (this “Agreement”) is entered into as of February 4, 2019, between the City of Avondale, an Arizona municipal corporation (the “City”), and T.Y. Lin International, Inc., a California corporation (the “Consultant”).

RECITALS

A. The City issued a Request for Qualifications, EN 18-111 “FY 2018/2019 Professional Consultants Selection List” (the “RFQ”), a copy of which is on file in the City’s Finance Office and incorporated herein by reference, seeking statements of qualifications from vendors for professional consulting services.

B. The Consultant responded to the RFQ by submitting a Statement of Qualifications (the “SOQ”), attached hereto as Exhibit A and incorporated herein by reference, and the City desires to enter into an Agreement with the Consultant for the design of the El Mirage and Buckeye Road (MC 85) right turn lane (the “Services”).

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing introduction and recitals, which are incorporated herein by reference, the following mutual covenants and conditions, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the City and the Consultant hereby agree as follows:

1. Term of Agreement. This Agreement shall be effective as of the date first set forth above and shall remain in full force and effect until February 3, 2020, unless terminated as otherwise provided in this Agreement.

2. Scope of Work. Consultant shall provide the Services as set forth in the Scope of Work attached hereto as Exhibit B and incorporated herein by reference.

3. Compensation. The City shall pay Consultant an amount not to exceed \$77,680.96 for the Services at the rates set forth in the Fee Proposal attached hereto as part of Exhibit B.

4. Payments. The City shall pay the Consultant monthly, based upon work performed and completed to date, and upon submission and approval of invoices. All invoices shall document and itemize all work completed to date. Each invoice statement shall include a record of time expended and work performed in sufficient detail to justify payment.

5. Safety Plan. Consultant shall provide the Services in accordance with a safety plan that is compliant with Occupational Safety and Health Administration (“OSHA”), American

National Standards Institute and National Institute for Occupational Safety and Health standards. If, in the Consultant's sole determination, the Services to be provided do not require a safety plan, Consultant shall notify the City, in writing, describing the reasons a safety plan is unnecessary. The City reserves the right to request a safety plan following such notification.

6. Documents. All documents, including any intellectual property rights thereto, prepared and submitted to the City pursuant to this Agreement shall be the property of the City.

7. Consultant Personnel. Consultant shall provide adequate, experienced personnel, capable of and devoted to the successful performance of the Services under this Agreement. Consultant agrees to assign specific individuals to key positions. If deemed qualified, the Consultant is encouraged to hire City residents to fill vacant positions at all levels. Consultant agrees that, upon commencement of the Services to be performed under this Agreement, key personnel shall not be removed or replaced without prior written notice to the City. If key personnel are not available to perform the Services for a continuous period exceeding 30 calendar days, or are expected to devote substantially less effort to the Services than initially anticipated, Consultant shall immediately notify the City of same and shall, subject to the concurrence of the City, replace such personnel with personnel possessing substantially equal ability and qualifications.

8. Inspection; Acceptance. All work shall be subject to inspection and acceptance by the City at reasonable times during Consultant's performance. The Consultant shall provide and maintain a self-inspection system that is acceptable to the City.

9. Licenses; Materials. Consultant shall maintain in current status all federal, state and local licenses and permits required for the operation of the business conducted by the Consultant. The City has no obligation to provide Consultant, its employees or subcontractors any business registrations or licenses required to perform the specific services set forth in this Agreement. The City has no obligation to provide tools, equipment or material to Consultant.

10. Performance Warranty. Consultant warrants that the Services rendered will conform to the requirements of this Agreement and with the care and skill ordinarily used by members of the same profession practicing under similar circumstances at the same time and in the same locality.

11. Indemnification. To the fullest extent permitted by law, the Consultant shall indemnify and hold harmless the City and each council member, officer, employee or agent thereof (the City and any such person being herein called an "Indemnified Party"), for, from and against any and all losses, claims, damages, liabilities, costs and expenses (including, but not limited to, reasonable attorneys' fees, court costs and the costs of appellate proceedings) to which any such Indemnified Party may become subject, under any theory of liability whatsoever ("Claims") to the extent that such Claims (or actions in respect thereof) are caused by the negligent acts, recklessness or intentional misconduct of the Consultant, its officers, employees, agents, or any tier of subcontractor in connection with Consultant's work or services in the performance of this Agreement. The amount and type of insurance coverage requirements set forth below will in no way be construed as limiting the scope of the indemnity in this Section.

12. Insurance.

12.1 General.

A. Insurer Qualifications. Without limiting any obligations or liabilities of Consultant, Consultant shall purchase and maintain, at its own expense, hereinafter stipulated minimum insurance with insurance companies authorized to do business in the State of Arizona pursuant to ARIZ. REV. STAT. § 20-206, as amended, with an AM Best, Inc. rating of A- or above with policies and forms satisfactory to the City. Failure to maintain insurance as specified herein may result in termination of this Agreement at the City's option.

B. No Representation of Coverage Adequacy. By requiring insurance herein, the City does not represent that coverage and limits will be adequate to protect Consultant. The City reserves the right to review any and all of the insurance policies and/or endorsements cited in this Agreement, but has no obligation to do so. Failure to demand such evidence of full compliance with the insurance requirements set forth in this Agreement or failure to identify any insurance deficiency shall not relieve Consultant from, nor be construed or deemed a waiver of, its obligation to maintain the required insurance at all times during the performance of this Agreement.

C. Additional Insured. All insurance coverage, except Workers' Compensation insurance and Professional Liability insurance, if applicable, shall name, to the fullest extent permitted by law for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, directors, officials and employees as Additional Named Insured as specified under the respective coverage sections of this Agreement.

D. Coverage Term. All insurance required herein shall be maintained in full force and effect until all work or services required to be performed under the terms of this Agreement are satisfactorily performed, completed and formally accepted by the City, unless specified otherwise in this Agreement.

E. Primary Insurance. Consultant's insurance shall be primary insurance with respect to performance of this Agreement and in the protection of the City as an Additional Insured.

F. Claims Made. In the event any insurance policies required by this Agreement are written on a "claims made" basis, coverage shall extend, either by keeping coverage in force or purchasing an extended reporting option, for three years past completion and acceptance of the services. Such continuing coverage shall be evidenced by submission of annual Certificates of Insurance and necessary endorsements citing applicable coverage is in force and contains the provisions as required herein for the three-year period.

G. Waiver. All policies, except for Professional Liability, including Workers' Compensation insurance, shall contain a waiver of rights of recovery

(subrogation) against the City, its agents, representatives, officials, officers and employees for any claims arising out of the work or services of Consultant. Consultant shall arrange to have such subrogation waivers incorporated into each policy via formal written endorsement thereto.

H. Policy Deductibles and/or Self-Insured Retentions. The policies set forth in these requirements may provide coverage that contains deductibles or self-insured retention amounts. Such deductibles or self-insured retention shall not be applicable with respect to the policy limits provided to the City. Consultant shall be solely responsible for any such deductible or self-insured retention amount.

I. Use of Subcontractors. If any work under this Agreement is subcontracted in any way, Consultant shall execute written agreements with its subcontractors containing the indemnification provisions set forth above and insurance requirements set forth herein protecting the City and Consultant. Consultant shall be responsible for executing any agreements with its subcontractors and obtaining certificates of insurance verifying the insurance requirements.

J. Evidence of Insurance. Prior to commencing any work or services under this Agreement, Consultant will provide the City with suitable evidence of insurance in the form of certificates of insurance and a copy of the declaration page(s) of the insurance policies as required by this Agreement, issued by Consultant's insurance insurer(s) as evidence that policies are placed with acceptable insurers as specified herein and provide the required coverages, conditions and limits of coverage specified in this Agreement and that such coverage and provisions are in full force and effect. Confidential information such as the policy premium may be redacted from the declaration page(s) of each insurance policy, provided that such redactions do not alter any of the information required by this Agreement. The City shall reasonably rely upon the certificates of insurance and declaration page(s) of the insurance policies as evidence of coverage but such acceptance and reliance shall not waive or alter in any way the insurance requirements or obligations of this Agreement. If any of the policies required by this Agreement expire during the life of this Agreement, it shall be Consultant's responsibility to forward renewal certificates and declaration page(s) to the City 30 days prior to the expiration date. All certificates of insurance and declarations required by this Agreement shall be identified by referencing the RFQ number and title or this Agreement. A \$25.00 administrative fee shall be assessed for all certificates or declarations received without the appropriate RFQ number and title or a reference to this Agreement, as applicable. Additionally, certificates of insurance and declaration page(s) of the insurance policies submitted without referencing the appropriate RFQ number and title or a reference to this Agreement, as applicable, will be subject to rejection and may be returned or discarded. Certificates of insurance and declaration page(s) shall specifically include the following provisions:

(1) The City, its agents, representatives, officers, directors, officials and employees are Additional Insureds as follows:

(a) Commercial General Liability – Under Insurance Services Office, Inc., (“ISO”) Form CG 20 10 03 97 or equivalent.

(b) Auto Liability – Under ISO Form CA 20 48 or equivalent.

(c) Excess Liability – Follow Form to underlying insurance.

(2) Consultant’s insurance shall be primary insurance with respect to performance of this Agreement.

(3) All policies, except for Professional Liability, including Workers’ Compensation, waive rights of recovery (subrogation) against City, its agents, representatives, officers, officials and employees for any claims arising out of work or services performed by Consultant under this Agreement.

(4) ACORD certificate of insurance form 25 (2014/01) is preferred. If ACORD certificate of insurance form 25 (2001/08) is used, the phrases in the cancellation provision “endeavor to” and “but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives” shall be deleted. Certificate forms other than ACORD form shall have similar restrictive language deleted.

K. Endorsements. Consultant shall provide the City with the necessary endorsements to ensure City is provided the insurance coverage set forth in this Section.

12.2 Required Insurance Coverage.

A. Commercial General Liability. Consultant shall maintain “occurrence” form Commercial General Liability insurance with an unimpaired limit of not less than \$1,000,000 for each occurrence, \$2,000,000 Products and Completed Operations Annual Aggregate and a \$2,000,000 General Aggregate Limit. The policy shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal injury and advertising injury. Coverage under the policy will be at least as broad as ISO policy form CG 00 010 93 or equivalent thereof, including but not limited to, separation of insured’s clause. To the fullest extent allowed by law, for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, officials and employees shall be cited as an Additional Insured under ISO, Commercial General Liability Additional Insured Endorsement form CG 20 10 03 97, or equivalent, which shall read “Who is an Insured (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of “your work” for that insured by or for you.” If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be “follow form” equal or broader in coverage scope than underlying insurance.

B. Vehicle Liability. Consultant shall maintain Business Automobile Liability insurance with a limit of \$1,000,000 each occurrence on Consultant's owned, hired and non-owned vehicles assigned to or used in the performance of the Consultant's work or services under this Agreement. Coverage will be at least as broad as ISO coverage code "1" "any auto" policy form CA 00 01 12 93 or equivalent thereof. To the fullest extent allowed by law, for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, directors, officials and employees shall be cited as an Additional Insured under ISO Business Auto policy Designated Insured Endorsement form CA 20 48 or equivalent. If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

C. Professional Liability. If this Agreement is the subject of any professional services or work, or if the Consultant engages in any professional services or work in any way related to performing the work under this Agreement, the Consultant shall maintain Professional Liability insurance covering negligent errors and omissions arising out of the Services performed by the Consultant, or anyone employed by the Consultant, or anyone for whose negligent acts, mistakes, errors and omissions the Consultant is legally liable, with an unimpaired liability insurance limit of \$2,000,000 each claim and \$2,000,000 annual aggregate.

D. Workers' Compensation Insurance. If Consultant employs anyone who is required by law to be covered by workers' compensation insurance, Consultant shall maintain Workers' Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction over Consultant's employees engaged in the performance of work or services under this Agreement and shall also maintain Employers Liability Insurance of not less than \$500,000 for each accident, \$500,000 disease for each employee and \$1,000,000 disease policy limit.

12.3 Cancellation and Expiration Notice. Insurance required herein shall not expire, be canceled, or be materially changed without 30 days' prior written notice to the City.

13. Termination; Cancellation.

13.1 For City's Convenience. This Agreement is for the convenience of the City and, as such, may be terminated without cause after receipt by Consultant of written notice by the City. Upon termination for convenience, Consultant shall be paid for all undisputed services performed to the termination date.

13.2 For Cause. If either party fails to perform any obligation pursuant to this Agreement and such party fails to cure its nonperformance within 30 days after notice of nonperformance is given by the non-defaulting party, such party will be in default. In the event of such default, the non-defaulting party may terminate this Agreement immediately for cause and will have all remedies that are available to it at law or in equity including, without limitation, the remedy of specific performance. If the nature of the defaulting party's nonperformance is such that it cannot reasonably be cured within 30 days, then the defaulting party will have such

additional periods of time as may be reasonably necessary under the circumstances, provided the defaulting party immediately (A) provides written notice to the non-defaulting party and (B) commences to cure its nonperformance and thereafter diligently continues to completion the cure of its nonperformance. In no event shall any such cure period exceed 90 days. In the event of such termination for cause, payment shall be made by the City to the Consultant for the undisputed portion of its fee due as of the termination date.

13.3 Due to Work Stoppage. This Agreement may be terminated by the City upon 30 days' written notice to Consultant in the event that the Services are permanently abandoned. In the event of such termination due to work stoppage, payment shall be made by the City to the Consultant for the undisputed portion of its fee due as of the termination date.

13.4 Conflict of Interest. This Agreement is subject to the provisions of ARIZ. REV. STAT. § 38-511. The City may cancel this Agreement without penalty or further obligations by the City or any of its departments or agencies if any person significantly involved in initiating, negotiating, securing, drafting or creating this Agreement on behalf of the City or any of its departments or agencies is, at any time while this Agreement or any extension of this Agreement is in effect, an employee of any other party to this Agreement in any capacity or a consultant to any other party of this Agreement with respect to the subject matter of this Agreement.

13.5 Gratuities. The City may, by written notice to the Consultant, cancel this Agreement if it is found by the City that gratuities, in the form of economic opportunity, future employment, entertainment, gifts or otherwise, were offered or given by the Consultant or any agent or representative of the Consultant to any officer, agent or employee of the City for the purpose of securing this Agreement. In the event this Agreement is canceled by the City pursuant to this provision, the City shall be entitled, in addition to any other rights and remedies, to recover and withhold from the Consultant an amount equal to 150% of the gratuity.

13.6 Agreement Subject to Appropriation. The City is obligated only to pay its obligations set forth in this Agreement as may lawfully be made from funds appropriated and budgeted for that purpose during the City's then current fiscal year. The City's obligations under this Agreement are current expenses subject to the "budget law" and the unfettered legislative discretion of the City concerning budgeted purposes and appropriation of funds. Should the City elect not to appropriate and budget funds to pay its Agreement obligations, this Agreement shall be deemed terminated at the end of the then-current fiscal year term for which such funds were appropriated and budgeted for such purpose and the City shall be relieved of any subsequent obligation under this Agreement. The parties agree that the City has no obligation or duty of good faith to budget or appropriate the payment of the City's obligations set forth in this Agreement in any budget in any fiscal year other than the fiscal year in which this Agreement is executed and delivered. The City shall be the sole judge and authority in determining the availability of funds for its obligations under this Agreement. The City shall keep Consultant informed as to the availability of funds for this Agreement. The obligation of the City to make any payment pursuant to this Agreement is not a general obligation or indebtedness of the City. Consultant hereby waives any and all rights to bring any claim against the City from or relating in any way to the City's termination of this Agreement pursuant to this section.

14. Miscellaneous.

14.1 Independent Contractor. It is clearly understood that each party will act in its individual capacity and not as an agent, employee, partner, joint venturer, or associate of the other. An employee or agent of one party shall not be deemed or construed to be the employee or agent of the other for any purpose whatsoever. The Consultant acknowledges and agrees that the Services provided under this Agreement are being provided as an independent contractor, not as an employee or agent of the City. Consultant, its employees and subcontractors are not entitled to workers' compensation benefits from the City. The City does not have the authority to supervise or control the actual work of Consultant, its employees or subcontractors. The Consultant, and not the City, shall determine the time of its performance of the services provided under this Agreement so long as Consultant meets the requirements of its agreed Scope of Work as set forth in Section 2 above and in Exhibit B. Consultant is neither prohibited from entering into other contracts nor prohibited from practicing its profession elsewhere. City and Consultant do not intend to nor will they combine business operations under this Agreement.

14.2 Applicable Law; Venue. This Agreement shall be governed by the laws of the State of Arizona and suit pertaining to this Agreement may be brought only in courts in Maricopa County, Arizona.

14.3 Laws and Regulations. Consultant shall keep fully informed and shall at all times during the performance of its duties under this Agreement ensure that it and any person for whom the Consultant is responsible abides by, and remains in compliance with, all rules, regulations, ordinances, statutes or laws affecting the Services, including, but not limited to, the following: (A) existing and future City and County ordinances and regulations, (B) existing and future State and Federal laws and (C) existing and future OSHA standards.

14.4 Amendments. This Agreement may be modified only by a written amendment signed by persons duly authorized to enter into contracts on behalf of the City and the Consultant.

14.5 Provisions Required by Law. Each and every provision of law and any clause required by law to be in this Agreement will be read and enforced as though it were included herein and, if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, this Agreement will promptly be physically amended to make such insertion or correction.

14.6 Severability. The provisions of this Agreement are severable to the extent that any provision or application held to be invalid by a Court of competent jurisdiction shall not affect any other provision or application of this Agreement which may remain in effect without the invalid provision or application.

14.7 Entire Agreement; Interpretation; Parol Evidence. This Agreement represents the entire agreement of the parties with respect to its subject matter, and all previous agreements, whether oral or written, entered into prior to this Agreement are hereby revoked and superseded by this Agreement. No representations, warranties, inducements or oral agreements have been made by any of the parties except as expressly set forth herein, or in any other

contemporaneous written agreement executed for the purposes of carrying out the provisions of this Agreement. This Agreement shall be construed and interpreted according to its plain meaning, and no presumption shall be deemed to apply in favor of, or against the party drafting this Agreement. The parties acknowledge and agree that each has had the opportunity to seek and utilize legal counsel in the drafting of, review of, and entry into this Agreement.

14.8 Assignment; Delegation. No right or interest in this Agreement shall be assigned or delegated by Consultant without prior, written permission of the City, signed by the City Manager. Any attempted assignment or delegation by Consultant in violation of this provision shall be a breach of this Agreement by Consultant.

14.9 Subcontracts. No subcontract shall be entered into by the Consultant with any other party to furnish any of the material or services specified herein without the prior, written approval of the City. The Consultant is responsible for performance under this Agreement whether or not subcontractors are used. Failure to pay subcontractors in a timely manner pursuant to any subcontract shall be a material breach of this Agreement by Consultant.

14.10 Rights and Remedies. No provision in this Agreement shall be construed, expressly or by implication, as waiver by the City of any existing or future right and/or remedy available by law in the event of any claim of default or breach of this Agreement. The failure of the City to insist upon the strict performance of any term or condition of this Agreement or to exercise or delay the exercise of any right or remedy provided in this Agreement, or by law, or the City's acceptance of and payment for services, shall not release the Consultant from any responsibilities or obligations imposed by this Agreement or by law, and shall not be deemed a waiver of any right of the City to insist upon the strict performance of this Agreement.

14.11 Attorneys' Fees. In the event either party brings any action for any relief, declaratory or otherwise, arising out of this Agreement or on account of any breach or default hereof, the prevailing party shall be entitled to receive from the other party reasonable attorneys' fees and reasonable costs and expenses, determined by the court sitting without a jury, which shall be deemed to have accrued on the commencement of such action and shall be enforced whether or not such action is prosecuted through judgment.

14.12 Liens. All materials or services shall be free of all liens and, if the City requests, a formal release of all liens shall be delivered to the City.

14.13 Offset.

A. Offset for Damages. In addition to all other remedies at law or equity, the City may offset from any money due to the Consultant any amounts Consultant owes to the City for damages resulting from breach or deficiencies in performance or breach of any obligation under this Agreement.

B. Offset for Delinquent Fees or Taxes. The City may offset from any money due to the Consultant any amounts Consultant owes to the City for delinquent fees, transaction privilege use taxes and property taxes, including any interest or penalties.

14.14 Notices and Requests. Any notice or other communication required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been duly given if (A) delivered to the party at the address set forth below, (B) deposited in the U.S. Mail, registered or certified, return receipt requested, to the address set forth below or (C) given to a recognized and reputable overnight delivery service, to the address set forth below:

If to the City: City of Avondale
11465 West Civic Center Drive
Avondale, Arizona 85323
Attn: Charles A. Montoya, City Manager

With copy to: GUST ROSENFELD P.L.C.
One East Washington Street, Suite 1600
Phoenix, Arizona 85004-2553
Attn: Andrew J. McGuire

If to Consultant: T.Y. Lin International, Inc.
60 East Rio Salado Parkway, Suite 501
Tempe, Arizona 85281
Attn: Carlos Sanchez Soria, PE

or at such other address, and to the attention of such other person or officer, as any party may designate in writing by notice duly given pursuant to this subsection. Notices shall be deemed received (A) when delivered to the party, (B) three business days after being placed in the U.S. Mail, properly addressed, with sufficient postage or (C) the following business day after being given to a recognized overnight delivery service, with the person giving the notice paying all required charges and instructing the delivery service to deliver on the following business day. If a copy of a notice is also given to a party's counsel or other recipient, the provisions above governing the date on which a notice is deemed to have been received by a party shall mean and refer to the date on which the party, and not its counsel or other recipient to which a copy of the notice may be sent, is deemed to have received the notice.

14.15 Confidentiality of Records. The Consultant shall establish and maintain procedures and controls that are acceptable to the City for the purpose of ensuring that information contained in its records or obtained from the City or from others in carrying out its obligations under this Agreement shall not be used or disclosed by it, its agents, officers, or employees, except as required to perform Consultant's duties under this Agreement. Persons requesting such information should be referred to the City. Consultant also agrees that any information pertaining to individual persons shall not be divulged other than to employees or officers of Consultant as needed for the performance of duties under this Agreement.

14.16 Records and Audit Rights. To ensure that the Consultant and its subcontractors are complying with the warranty under subsection 14.17 below, Consultant's and its subcontractor's books, records, correspondence, accounting procedures and practices, and any other supporting evidence relating to this Agreement, including the papers of any Consultant and its subcontractors' employees who perform any work or services pursuant to this Agreement (all

of the foregoing hereinafter referred to as “Records”), shall be open to inspection and subject to audit and/or reproduction during normal working hours by the City, to the extent necessary to adequately permit (A) evaluation and verification of any invoices, payments or claims based on Consultant’s and its subcontractors’ actual costs (including direct and indirect costs and overhead allocations) incurred, or units expended directly in the performance of work under this Agreement and (B) evaluation of the Consultant’s and its subcontractors’ compliance with the Arizona employer sanctions laws referenced in subsection 14.17 below. To the extent necessary for the City to audit Records as set forth in this subsection, Consultant and its subcontractors hereby waive any rights to keep such Records confidential. For the purpose of evaluating or verifying such actual or claimed costs or units expended, the City shall have access to said Records, even if located at its subcontractors’ facilities, from the effective date of this Agreement for the duration of the work and until three years after the date of final payment by the City to Consultant pursuant to this Agreement. Consultant and its subcontractors shall provide the City with adequate and appropriate workspace so that the City can conduct audits in compliance with the provisions of this subsection. The City shall give Consultant or its subcontractors reasonable advance notice of intended audits. Consultant shall require its subcontractors to comply with the provisions of this subsection by insertion of the requirements hereof in any subcontract pursuant to this Agreement.

14.17 E-verify Requirements. To the extent applicable under ARIZ. REV. STAT. § 41-4401, the Consultant and its subcontractors warrant compliance with all federal immigration laws and regulations that relate to their employees and their compliance with the E-verify requirements under ARIZ. REV. STAT. § 23-214(A). Consultant’s or its subcontractor’s failure to comply with such warranty shall be deemed a material breach of this Agreement and may result in the termination of this Agreement by the City.

14.18 Israel. Consultant certifies that it is not currently engaged in, and agrees for the duration of this Agreement that it will not engage in a “boycott,” as that term is defined in ARIZ. REV. STAT. § 35-393, of Israel.

14.19 Conflicting Terms. In the event of any inconsistency, conflict or ambiguity among the terms of this Agreement, any amendments, the Scope of Work, any City-approved Purchase Order, the Fee Proposal, the RFQ and the Consultant’s SOQ, the documents shall govern in the order listed herein.

14.20 Non-Exclusive Contract. This Agreement is entered into with the understanding and agreement that it is for the sole convenience of the City. The City reserves the right to obtain like goods and services from another source when necessary.

14.21 Cooperative Purchasing. Specific eligible political subdivisions and nonprofit educational or public health institutions (“Eligible Procurement Unit(s)”) are permitted to utilize procurement agreements developed by the City, at their discretion and with the agreement of the awarded Consultant. Consultant may, at its sole discretion, accept orders from Eligible Procurement Unit(s) for the purchase of the Materials and/or Services at the prices and under the terms and conditions of this Agreement, in such quantities and configurations as may be agreed upon between the parties. All cooperative procurements under this Agreement shall be transacted solely between the requesting Eligible Procurement Unit and Consultant. Payment for

such purchases will be the sole responsibility of the Eligible Procurement Unit. The exercise of any rights, responsibilities or remedies by the Eligible Procurement Unit shall be the exclusive obligation of such unit. The City assumes no responsibility for payment, performance or any liability or obligation associated with any cooperative procurement under this Agreement. The City shall not be responsible for any disputes arising out of transactions made by others.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date and year first set forth above.

“City”

CITY OF AVONDALE,
an Arizona municipal corporation

Charles A. Montoya, City Manager

ATTEST:

Marcella Carrillo, City Clerk

(ACKNOWLEDGMENT)

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

On _____, 2019, before me personally appeared Charles A. Montoya, the City Manager of the CITY OF AVONDALE, an Arizona municipal corporation, whose identity was proven to me on the basis of satisfactory evidence to be the person who he claims to be, and acknowledged that he signed the above document, on behalf of the City of Avondale.

Notary Public

(Affix notary seal here)

[SIGNATURES CONTINUE ON FOLLOWING PAGE]

“Consultant”

T.Y. LIN INTERNATIONAL, INC.,
a California corporation

By:_____

Name: _____

Title: _____

(ACKNOWLEDGMENT)

STATE OF _____)
) ss.
COUNTY OF _____)

On _____, 2019, before me personally appeared _____, the _____ of T.Y. LIN INTERNATIONAL, INC., a California corporation, whose identity was proven to me on the basis of satisfactory evidence to be the person who he/she claims to be, and acknowledged that he/she signed the above document on behalf of the corporation.

Notary Public

(Affix notary seal here)

EXHIBIT A
TO
PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF AVONDALE
AND
T.Y. LIN INTERNATIONAL, INC.

[Consultant's SOQ]

See following pages.

107 Ave Irrigation Improvement

YOUR TAX DOLLARS AT WORK

Project No. ST 1330

Project Cost: 232,214.00

Contractor: RK Sanders Inc.

Engineer: Tylin International

City Engineering Department

24-Hour Project Hotline

Begin Construction: August 2015

End Construction: November 2015

Telephone: (602) 233-0808

Telephone: (480) 968-8814

Telephone: (623) 333-4200

Telephone: (602) 573-1116

PROGRESS AS PROMISED

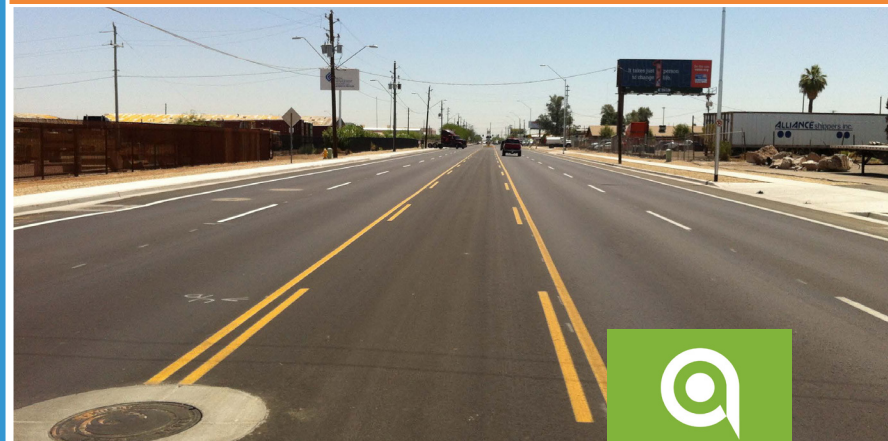
STATEMENT OF QUALIFICATIONS FOR

2018/2019

PROFESSIONAL CONSULTANTS SELECTION LIST

- TRANSPORTATION ENGINEER
- HYDROLOGY/HYDRAULIC PROJECTS
- FOUNDATION & STRUCTURAL DESIGN

Solicitation No. EN18-111 | June 27, 2018



June 27, 2018

David Janover, RFQ Administrator
City of Avondale
11465 West Civic Center Drive
Avondale, Arizona 85232

Re: **Statement of Qualifications for FY 2018/2019 Professional Consultants Selection List (EN18-111)**

Dear Mr. Janover and Selection Panel:

T.Y. Lin International (TYLIN) is very interested in being reselected as your partner for this important on-call services contract to provide **Transportation Engineering, Foundations & Structures Design, and Hydrology/Hydraulics Project services**. We understand the City of Avondale's (City) need for on-call consultants with management skills, technical capabilities and focus on quality to maximize the use of every dollar the City spends on infrastructure. TYLIN will continue to work closely with City Staff to develop each task assignment to its fullest potential.

Perspective with a Focus on Implementation: TYLIN will combine our strengths in project management, transportation planning/engineering, structural engineering, and hydrology/hydraulics to ensure the City's goals are realized for each task assignment.

Experience that will Deliver Results: TYLIN has an excellent on-call contract performance record throughout Arizona. We have recent and relevant experience with the City as well as ADOT Local Government's (for federally funded projects), policies and procedures. Our history of balancing community needs while simultaneously applying sound planning/engineering design concepts will make each project a success.

Commitment to the City of Avondale: On-call service contracts are a core part of our business and we recognize the quick turnaround nature of these types of projects. As your partner, we make the following commitments to the City:

- ✓ Deliver exceptional client service through a focused and responsive approach from our senior management down through all staff levels.
- ✓ Develop high quality work products while fostering a team relationship through the leadership and expertise of the key TYLIN leaders.
- ✓ Be accountable to the City to deliver each task assignment through a well-planned, detail-oriented approach that anticipates critical funding, planning, design and construction issues.
- ✓ Make this contract our team's top priority and deliver each task assignment on time and within budget.

We are excited for this opportunity to make a positive impact on the City. Should you have any questions and/or require additional information, please contact our Task Order Manager, Carlos Sanchez Soria at (480) 968-8814 or by email at carlos.sanchez-soria@tylin.com.

Sincerely,

T. Y. LIN INTERNATIONAL

Carlos Sanchez Soria, PE
Task Order Manager

Daniel N. Heller, PE
Principal-in-Charge

A. General Information

2. Legal Organization

Incorporated in California, **T.Y. Lin International (TYLIN)** is managed by Man-Chung Tang (Chairman) and Alvaro Piedrahita (President). The Tempe office is located within the Western Region, Southwest District of the US operations under the direction of Mark Ashley (District Manager) and Daniel Heller (Unit Manager).

Identification Information

Legal Name and Address: T.Y. Lin International, Two Harrison Street, Suite 500, San Francisco, CA 94105

Identification Number: 94-1598707

Legal Form: Corporation

SOQ Contact

Carlos Sanchez Soria, PE
60 East Rio Salado Parkway, Suite 501
Tempe, AZ 85281
Phone: 480-968-8814

3. Office Location

Corporate Headquarters

Two Harrison Street, Suite 500; San Francisco, CA 94105

Local Office

60 E. Rio Salado Parkway, Suite 501; Tempe, AZ 85281

Authority to Provide Services in Arizona

Arizona Corporation Commission File Number: F-0038427-4

Date of Incorporation: May 14, 1987

4. General Description

Established in 1954, TYLIN is a multi-disciplined consulting firm responsible for some of the most creative and advanced engineering projects in the world. Locally, TYLIN has been conducting business in Maricopa County for 30 years. Our relevant projects contain many of the same challenges expected to be encountered on transportation, structures, and hydrology/hydraulics projects throughout the City of

Avondale (City). Specific services we specialize in are roadway, structural design, drainage and utility design, traffic engineering and coordination. We will bring our comprehensive experience and commitment to quality to the City.

5. Terminated Contracts

TYLIN and/or our officers have not held a contract that has been terminated in the last five years.

6. Claims Resulting in Litigation/Arbitration

TYLIN has not had any claims arise from a contract that resulted in litigation or arbitration within the last five years.

7. Discipline Specialty Checklist

Our Discipline Specialty Checklist has been attached as an appendix to this Statement of Qualifications.

8. Vendor Information Form

Our Vendor Information Form has been attached as an appendix to this Statement of Qualifications.

B. Experience and Qualifications

1. TYLIN's Experience

TYLIN is very familiar with the unique challenges of on-call contracts. **Our staff has the experience and flexibility to handle urgent tasks with tight timelines.** If necessary, our team can adjust its staffing availability to meet the City's specific requirements for each task order, regardless of the project size or number of disciplines involved.

TYLIN currently holds several on-call contracts including: City of Avondale Professional Consultants Selection List for Transportation, Foundations/Structures and Hydrology/Hydraulics; City of Phoenix Annual Services On-Call; City of Apache Junction

On-Call General Engineering Services; Town of Queen Creek Roadway On-Call; City of Tempe On-Call Consultant Services; Pinal County On-Call Civil Engineering; Maricopa County Department of Transportation (MCDOT) On-Call Professional Engineering and Design Services; and Arizona Department of Transportation (ADOT) Project Development On-Call Design Services. These contracts involve delivering preliminary and final construction documents, specifications and estimates, and providing post-design services on a variety of roadway, drainage and structural projects.

Engineering Qualifications. TYLIN is well suited to provide planning studies and reports, roadway and intersection improvements, geometric alternative analysis, value-engineering analysis, utility design, drainage design, public involvement and construction

contract document preparation to the City for all types of on-call projects. Our planning, design, and construction experience will provide for timely and cost effective completion of the assigned work tasks.

Engineering Analysis. TYLIN has prepared scoping documents and Design Concept Reports (DCR) for a variety of projects throughout the Phoenix metropolitan area ranging in complexity from minor roadway widenings and realignments to multi-lane highways, interchange improvements and transitways. We have the in-house expertise to provide any technical analysis anticipated to be encountered as part of this contract. Our talented staff has completed numerous studies and reports (feasibility, bridge selection, drainage analysis, value engineering, etc.) for local municipalities and partner agencies throughout Maricopa County over the last several years.

Design and Construction Plans. TYLIN is very experienced with preparing bid-ready plans, specifications and estimates as may be required for this contract. Engineering design and drafting standards shall be in conformance with City criteria as well as federal and/or state criteria (if applicable).

Transportation Engineering

TYLIN's transportation engineers have completed pre-design, final design and construction administration services for all aspects of numerous public projects. Our Task Order Manager, **Carlos Sanchez Soria, PE**, and Transportation Discipline Leader, **Christopher Milner, PE, PTOE**, have been responsible for leading projects involving engineering analysis, as well as preparation of detailed construction documents. These projects have included roadway widening and narrowings, intersection analysis and design, ADA improvements, residential traffic calming, median refuge, circulation plans, site feasibility studies, parking lot improvements, and pedestrian enhancements.

Foundations & Structural Design

TYLIN has been responsible for the design and rehabilitation of over 100 bridges and numerous miscellaneous structures in Arizona. Our experience ranges from retaining walls and box culverts to major 4-level interchanges and award-winning pedestrian bridges.

We are experienced with planning, design and construction phases of projects and our services

include geometric layout, load analysis, hydraulic and scour analysis, inspection, asset management, seismic retrofit, and other technical tasks. **Kooi-Lim Hoe, PE**, provides structural designs from the simple to complex, also including numerous structural building designs over the past 25 years. TYLIN has been included on many design teams to provide special structural design

Transportation Engineering

- Bikeways/Pathways
- Roadway/Street Design
- Preliminary Studies
- Transportation Planning
- Public Involvement

- ADA Compliance
- Traffic Calming
- Intersections
- Roundabouts
- Parking Lots

Christopher Milner, PE, PTOE
Joseph Heller, PE
Daniel Fromm, PE

Foundations & Structural Design

- Vehicular & Pedestrian Bridges
- Repairs & Rehabilitation
- Scour Evaluation/Mitigation
- Retaining/Noise Walls
- Existing Building Evaluation
- Miscellaneous Structures

- Modifications
- Load Ratings
- Concrete Structures
- Special Structures
- Building Design
- Structural Evaluations

Kooi-Lim Hoe, PE
Chian-Lee Meng, SE

Hydrology/Hydraulic Projects

- Hydrology Design/Studies
- Hydraulic Alternative Analysis
- Stormwater Drainage Facilities
- Storm Drain Design

- Master Plans
- First-Flush Analysis
- Drainage Studies

Lloyd Vick, PE, CFM
Alex Herting, PE, CFM

and review cutting edge concepts. Many of these projects have included on-site consultation during construction with periodic special structural inspections.

Hydrology/Hydraulic Projects

TYLIN's stormwater engineers, led by **Lloyd Vick, PE, CFM**, have experience in drainage study and design projects including small to large watershed study using both HEC-1 and FLO-2D, modification of existing studies for design, onsite/offsite hydrologic analysis (culverts, roadway crossings, roadway drainage appurtenances, storm drain, catch basins, detention/retention) and scour analysis for culverts and bridges. Our drainage design experience includes open channels, bank protection, scour protection, hydraulic structures, large diameter storm drain and retention/detention basins.

2. Relevant Projects

107th Avenue, Van Buren Street to Roosevelt Street (City of Avondale): TYLIN completed final design for an interim roadway section along approximately 1/2-mile of 107th Avenue (Van Buren Street to Roosevelt Street) to accommodate near term

traffic needs. This included roadway widening to facilitate a 5-lane roadway section, drainage analysis and design including retention basins located along the west side of the roadway, signing and striping, lighting and detailed utility relocation and coordination. TYLIN also designed a slurry seal and restriping plan at both ends of the project to maximize the City's investment and allow for a finished roadway product (0.90-miles) between Roosevelt Parkway and Dealer Drive.

107th Avenue, Van Buren Street to McDowell Road (City of Avondale): TYLIN completed a preliminary geometric layout evaluating ultimate roadway improvements including 3 lanes in each direction with a raised median, bike lanes, detached sidewalk and intersection improvements at Van Buren Street (dual left turn lanes, dedicated right turn lanes and bus bays) and Roosevelt Street (left turn lanes and dedicated right turn lanes). In addition, the proposed roadway geometrics account for a future segment of the Valley Metro Light Rail planned between McDowell Road and Roosevelt Street including beneath the I-10/107th Avenue traffic interchange. We also investigated existing and future utilities within the project area and identified additional right-of-way required for the ultimate improvements. TYLIN worked closely with SRP to provide new easements for existing overhead power lines and a recently constructed irrigation pipe which was relocated outside of the ultimate right-of-way. Lastly, a private irrigation ditch along the west side of 107th Avenue (Van Buren Street to Roosevelt Street) was removed and reconstructed outside of SRP's overhead easement.

107th Avenue Private Irrigation Improvements (City of Avondale): TYLIN completed relocation design plans for existing private irrigation facilities along the west side of 107th Avenue between north of Van Buren Street and Roosevelt Street totaling approximately 1,300' in total length. The relocated system consisted primarily of a concrete lined irrigation open ditch with pipe and structure connections to existing

Avondale

ditches running east/west along Roosevelt Street and the private parcel line. TYLIN designed the relocated facility to accommodate the future alignment and ultimate right-of-way width along 107th Avenue as well as a 30-foot USA easement for irrigation and 30-foot overhead power easement.

Feasibility Study for Solar Panel Installation on Existing Parking Shade Structures (City of Avondale): TYLIN performed a structural analysis of the existing parking shade canopies located on the City Municipal Campus adjacent to the City Library, Court and Police Buildings. The analysis was conducted to determine the feasibility of installing solar panels on the roofs of each structure and included retrofit recommendations to various components of the structures to support the additional loading.

Agua Fria Shared-Use Path, Coldwater Park to Friendship Park (City of Avondale): TYLIN provided structural design services for the development of a new shared-use path along the Agua Fria River in Avondale. The 2.5-mile project included trails along the bank of the Agua Fria River, connections to existing trails and parks and the crossings of two major transportation facilities. This was the first project to be developed along the planned 34-mile long Trail System.

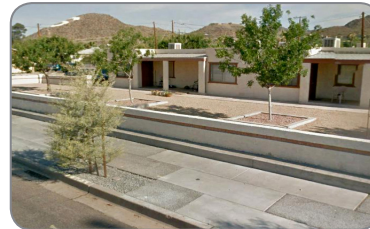
Annual Services On-Call (City of Phoenix): TYLIN has provided engineering services to the City of Phoenix on dozens of projects under this contract including: alignment studies, storm drain design, retaining and screen walls, building maintenance and repair, roadway and intersection improvements, landscape and aesthetic improvements, DCRs and site feasibility studies. Our Task Order Manager, Carlos Sanchez Soria and QA/QC Manager, James Barr, and several other key members of our team have provided



engineering services on more than 40 projects for the City of Phoenix under previous versions of this contract.

Relevant tasks assigned over the last 10 years are listed in the chart in Figure 1. Recent tasks include:

Hatcher Road, Central Avenue to 3rd Street: TYLIN finalized sidewalk and landscape improvements for approximately 1,300 linear feet along the north and south sides of Hatcher Road. This federally funded project consisted of the design and incorporation of Silva Cell technology for the landscaped areas to provide for an innovative, sustainable low impact design (LID) system that pedestrians will enjoy for many years to come. TYLIN prepared final plans and an opinion of probable cost as part of the project and obtained federal utility, right-of-way and environmental clearances to aid in securing funding.



64th Street Alignment Study, Bell Road to Mayo Boulevard: TYLIN prepared a Feasibility Study to evaluate the potential issues and anticipated costs for improvements associated with the extension of 64th Street between Bell Road and Mayo Boulevard. The 64th Street alignment is approximately 1.1-miles long and includes a crossing of the Central Arizona Project Canal. The widening of Mayo Boulevard between 56th Street and 64th Street for approximately 1.15-miles was also investigated as part of the Study.



Figure 1. Recent City of Phoenix Tasks

PROJECT EXPERIENCE	PROJECT ELEMENTS		
	Transportation Engineering	Foundations & Structures	Hydrology/Hydraulics
Bus Shelter Furniture Design	●	●	
Shade Feasibility Study for City Bus Stops	●	●	
CNG Feasibility Study	●	●	
Garcia Elementary Safe Routes to Schools	●		●
Hatcher Road, Central Avenue to 3rd Street	●		
Roma Avenue Drainage Study			●
Wilson Elementary Safe Routes to Schools	●		●
Sky Harbor International Airport/Salt River LOMR			●
43rd Avenue, RID Canal to Buckeye Road Final Design	●		●
64th Street Alignment Study, Bell Road to Mayo Boulevard	●	●	●
Anthem Way Feasibility Study		●	●
Lone Cactus Drive Drainage Study			●
Indian School Road Drainage Study			●
Skunk Creek Levee Certification			●
North Valley Parkway Preliminary Scoping Report	●	●	●
Rio Salado Beyond the Banks Bridge Crossing	●	●	
I-10 Deck Park Tunnel Load Evaluation		●	
Encanto Golf Course Locker House Roof Assessment		●	
Symphony Hall Banner Rigging Support Design/Inspection		●	
Encanto Park Train Station Roof Damage Evaluation		●	
Reflections Apartments Shop Drawing Review		●	
Salt River Levee Certification			●
Columbus/Clarendon Avenue Sidewalk Improvements	●		
30th Street Sidewalk Improvements	●		
Lower Buckeye Road Paving & Drainage Improvements	●	●	●
19th Avenue Waterline*	●		●
31st Avenue Sidewalk Improvements*	●		
Thunderbird Screen Wall*	●	●	
19th Avenue Base Mapping/Railroad Spur*	●		
2nd Avenue Streetscape Improvements*	●		●
3rd Avenue/Dunlap Road Canal Bridge*	●	●	●
Filmore Street Sewer & Storm Drain Improvements*	●		●
24th Street Screen Wall & Landscaping*	●	●	
19th Ave/Thunderbird Road Intersection Improvements*	●		●

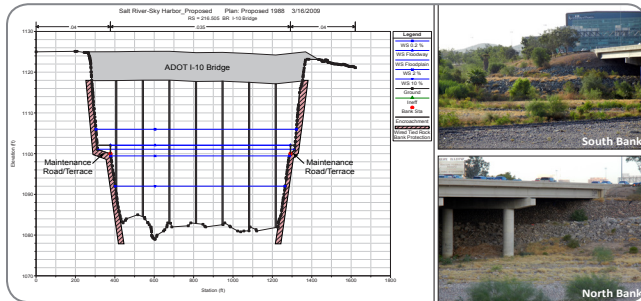
*Personal Experience

Avondale



Roma Avenue Drainage Study: TYLIN identified existing flooding hazards and developed conceptual alternatives to remediate flooding problems. The study encompassed the contributing watershed area which produces several feet of flooding and significant damage to houses within the adjacent subdivision. TYLIN calculated the 2, 10, 25, and 100 year storm discharges impacting the site, prepared a preliminary drainage analysis, and developed alternatives and cost estimates to correct the flooding conditions.

Sky Harbor International Airport/Salt River LOMR: TYLIN was responsible for the preparation of a Letter of Map Revision (LOMR) for the Salt River. The Airport, as part of a Runway Safety Area improvement, designed and constructed a Concrete Stabilized Alluvium (CSA) embankment which encroaches into the existing river bed. The design was based upon a FEMA approved Conditional Letter of Map Revision (CLOMR). Project tasks included verification that the as-built conditions matched the conceptual design in the CLOMR application, the preparation of a new hydraulic model, work maps, annotated Flood Insurance Rate Maps, update of the Operation and Maintenance plans, preparation of the LOMR application and the coordination of the LOMR through FEMA.



On-Call Civil Engineering (City of Apache Junction): TYLIN has provided engineering services to the City of Apache Junction on three projects.

Superstition Villa Subdivision Drainage Improvements: TYLIN evaluated deteriorated

pavement sections and poor surface flow drainage conditions throughout an older neighborhood. Pavement rehabilitation design (mill and overlay) was completed for various areas and drainage analysis included hydrology of the contributing watershed and existing street capacities. Final PS&E was completed for the proposed pavement and drainage improvements as well as a Final Drainage Report.

Broadway/Delaware Drainage Improvements: TYLIN evaluated the existing drainage conditions and recommending conveyance/capacity improvements to the drainage system in the intersection and adjacent upstream roadways. TYLIN designed a dual 54" storm drain system in Lawther Road and 10th Avenue to convey local flows to the existing channel along Delaware Drive to capture and convey 10-year watershed flows.



Delaware Drive Paving and Channel: TYLIN completed a Feasibility Study for future roadway and channel improvements along Delaware Drive for 1-mile between Southern Avenue and Broadway Avenue. Ultimate improvements include a concrete lined channel along the west side of Delaware Drive and a 5-lane roadway section along Delaware Drive with dedicated left turns lane at 10th Avenue, 12th Avenue and 16th Avenue. As part of an initial design phase for the project, TYLIN completed paving plans for a interim 26' wide roadway section along Delaware Drive between Broadway Avenue and 16th Avenue.

On-Call Civil Engineering Services (Pinal County): TYLIN has been contracted to complete several task assignments under this contract since its award in 2009, including Hunt Highway Phase 1A

"Federalization", Hunt Highway Phases 2, 3, 4, and 5 final designs; Gantzel Road; Phases 1 and 2 of Bella Vista Road and several TIGER Grant applications. Design of a median closure along Ironwood Drive south of Combs Road was another task assignment.



Lower Buckeye Road Paving and Drainage Improvements, 35th Avenue to 43rd Avenue (City of Phoenix): TYLIN finalized the PS&E and drainage report for 1-mile of arterial roadway and storm drain improvements. The project consisted of designing a storm drain system which included catch basins, connector pipes and a storm drain trunkline to convey runoff into existing systems along 35th Avenue and 43rd Avenue. TYLIN also designed an at-grade UPRR crossing of Lower Buckeye Road, east of 37th Avenue. The project consisted of upgrading an existing 2-lane road to a 5-lane road, curb, gutter and sidewalk improvements and detailed coordination with adjacent developers and utility companies.



Main Street Utility and Street Improvements, Mesa Drive to Val Vista Drive (City of Mesa): TYLIN completed final PS&E for the rehabilitation of Main Street for one-mile from Lindsay Road to Val Vista Drive. Improvements include a 2½" full width mill and overlay along with minor sidewalk, driveway and curb & gutter reconstruction. TYLIN also provided plans for a 16" waterline, 4" gas line and ITS conduits (traffic signal interconnect) for this one-mile section of Main Street. Storm drain facilities were analyzed

and upgraded to accept and convey the 10-year design storm in the street (100-year within right-of-way).

Ellsworth Road Improvements, Cloud Road to Hunt Highway (Pinal County/Town of Queen Creek): TYLIN completed design services for 2-miles of roadway widening and drainage improvements, including the preparation of paving plan and profile sheets, cross-section sheets, grading and roadway modeling, storm drain plan and profile sheets, box culvert design, street lighting, traffic signal design, traffic control, construction sequencing, hydraulic analysis, retention basin sizing, signing and striping, and ITS design. Due to unexpected, significant decreases in funding, extensive value engineering was performed by the design team to ensure the final design for Ellsworth Road met all goals and objectives of the project stakeholder's at the most competitive price.



Hunt Highway, Phases 1-5 (Pinal County): TYLIN is finalizing construction documents for widening improvements along Hunt Highway between Empire Boulevard and New Magma Road – approximately nine miles in length. The project also includes the 1.5-mile extension of Gantzel Road, from Bella Vista Road to Hunt Highway, across current ASLD property. The project design has included detailed roadway grading to eliminate low wash crossings as well as major off-site channel design, concrete box and pipe culvert design and traffic design including proposed signals, signing and pavement marking and detailed maintenance of traffic plans. Because the first phase was federally funded, Phase 1 included the preparation of a Categorical Exclusion for the approximately 2-mile long segment of Hunt

Highway between Empire Boulevard and Thompson Road.



Rio Salado Pathway (City of Mesa): TYLIN provided final design for the federally funded multi-use pathway along the south bank of the Salt River within the City of Mesa from the SR 101L/SR 202L interchange to Wrigleyville West (approximately 1.1 miles). The pathway design included an ADA compliant asphalt multi-use trail, landscaping and irrigation, custom lighting, rail design, node design, monument signage and a notable gateway feature. Lighting and railing features were designed to be fully compliant with FCDMC requirements to preserve access abilities to the top bank of the Salt River.



Beardsley Road Connector (City of Peoria): This project included the extension of Beardsley Road from 81st Avenue to SR 101L across New River. TYLIN designed the 3-span I-girder bridge over New River. This 292' bridge carries four lanes of traffic with a paved median and a sidewalk. The aesthetic features included custom barriers, pier treatments with rock form liners, special lights and overhang treatments. TYLIN also provided wall design and cost estimating

for approximately 600' of retaining/screen walls along Beardsley Road. The walls serve a dual purpose of retaining a fill slope at a retention basin while acting as screen walls for the adjacent community.



Galveston Pedestrian Bridge (City of Chandler): This Bicycle/Pedestrian Bridge is site specific in its location and is integrated into the earth embankments on both sides of the freeway, as well as onto the existing concrete pier, spanning the freeway and frontage roads. This Pedestrian Bridge consists of three distinct superstructures: a single steel box girder over the Loop 101 freeway, a single cast-in-place box girder over the Price Road Frontage Roads and a concrete slab at the ramp locations. Decorative fence and sails were added to mimic the theme of the nearby Thud Park – a common ground for radio controlled aircraft.



Ahwatukee Foothills ADMS/P (FCDMC): TYLIN is nearing completion of the hydrologic and hydraulic analysis using FLO-2D for the 30 square-mile watershed. The FLO-2D model consists of four separate domains to encompass the watershed: a 30'x30' grid offsite model and three 15'x15' grid onsite study models. The smaller grid size was chosen to better simulate flows in a highly detailed, urbanized

environment. TYLIN has identified 19 floodprone areas for flood hazard identification, TYLIN will be working with the District and community leaders to develop mitigation alternatives. Additional work includes development of an operations and management plan for the drainage facilities within the individual HOAs and close coordination with stakeholders (ADOT, GRIC and City of Phoenix) and the public.

West Mesa Park and Ride (City of Mesa):

TYLIN identified eight potential sites for this FTA funded Park-and-Ride facility in the vicinity of Country Club Drive and US 60. The team completed a conceptual analysis for each site. From the analysis, the project team determined two preferred site locations to carry forth to preliminary design. As part of this project, TYLIN prepared the necessary documents to obtain FTA approval including: preliminary site layouts, a summary evaluation matrix



and an environmental analysis (Phase I Site Assessment, Cultural/Biological Resources, Hazardous Materials Investigation, Air Quality Assessment and a CE Report). The City of Mesa and TYLIN evaluated the two alternatives and selected a site to proceed with to final design. During the first stages of final design, TYLIN worked cooperatively to develop twelve site layout alternatives in an effort to evaluate and prioritize the primary site features including bus, automobile, and pedestrian circulation, a number of parking stalls, landscaping and lighting. The constructed site accommodates 308 spaces.

3. References for Successful Project Completion

TYLIN believes that our clients' satisfaction and repeat client base measures excellence of a firm. We encourage you to contact the references listed in Figure 2 regarding our creativity, client service and professionalism.

Figure 2. References for Similar Organizations

CONTACT	TYPE OF SERVICES PERFORMED	CONTRACT DATES
Prescilla Pappas City of Phoenix 1034 E Madison St Phoenix, AZ 85034 (602) 495-2050 prescilla.pappas@phoenix.gov	- Transportation Engineering (Roadway/Street Design, Preliminary Studies, ADA Compliance, Sidewalks/Intersections, Utility Design/Coordination, Public Involvement) - Foundations/Structural Design (Bridge Design/Modifications, Repairs & Rehabilitations, Structural Evaluations) - Hydrology/Hydraulics (Hydrology Design, Stormwater Drainage Facilities, Drainage Studies, Storm Drain Design)	- 43rd Avenue & Lower Buckeye Road Paving & Drainage Improvements: 04/2006 – 06/2012 - 27th Avenue Paving & Drainage Improvements: 06/2016 – 06/2018
Emile Schmid, PE City of Apache Junction 575 E. Baseline Ave Apache Junction, AZ 85119 480-474-8515 eschmid@AJCity.Net	- Transportation Engineering (Roadway/Street Design, Preliminary Studies, ADA Compliance, Transportation Planning, Sidewalks/Intersections, Utility Design/Coordination) - Hydrology/Hydraulics (Drainage Studies, Storm Drain Design)	On-Call Civil Engineering: 01/2012 – Current (all task assignments have been completed)
Celeste Garza, CFM Pinal County 31 N Pinal St, Bldg F, Florence, AZ 85132 (520) 866-6402 celeste.garza@pinalcountiaz.gov	- Transportation Engineering (Roadway/Street Design, Preliminary Studies, ADA Compliance, Sidewalks/Intersections, Utility Design/Coordination, Public Involvement) - Foundations/Structural Design (Bridge Design/Modifications, Repairs & Rehabilitations, Structural Evaluations) - Hydrology/Hydraulics (Stormwater Drainage Facilities, Drainage Studies, Storm Drain Design)	Pinal County Engineering On-Call: 07/2009 – Current (6 of the 11 task assignments have been completed)

C. Key Positions

1. Personnel Resources

TYLIN has experienced staff that can provide the City with immediate project startup, quick “turnaround” and high quality products. Utilizing our multi-disciplinary team approach and state-of-the-art technology, the City will benefit from our extensive experience, relationships, track record of project success and understanding of the needs and goals of on-call task orders. TYLIN’s Tempe office has 35 employees specializing in transportation engineering, hydrology/hydraulics, and foundations and structural design services. Included among the local employees are 15 Registered Professional Engineers and 10 Engineers-in-Training. Nationally, TYLIN has over 700 employees.

2. Matrix of Disciplines/Categories

TYLIN has selected key members of its professional staff with considerable experience and expertise in their disciplines and proven track records on similar projects to lead this contract. **Our team encompasses the transportation engineering, hydrology/hydraulics, and foundations and structural design services disciplines required for this project.**

Our Organizational Matrix listing the discipline categories and key personnel can be seen in Figure 3 (on the following page).

3. Resumes

The following staff biographies briefly highlight key team personnel, work background and project roles as related to this project. Detailed resumes, certifications

and memberships may be found in the Appendix. Figure 4 (on page 8) shows our key personnel’s experience with similar projects.

Daniel Heller, PE, Principal-in-Charge (29 Years with TYLIN): Mr. Heller has over 39 years of management of structural, transportation and hydrology/hydraulics projects. His design experience has included the preparation of all types of preliminary and final design contract documents and critical post-design services for various urban freeway, local and rural roadway projects. He has extensive experience in the analysis, design, and construction of pre-stressed and conventionally reinforced concrete structures and widening, retrofitting and rehabilitation of existing structures. He is a TYLIN Vice President with the authority to commit resources on behalf of the firm.

He will manage all contractual obligations and will ultimately be responsible for TYLIN's performance. His City experience includes 107th Avenue from Van Buren Street to Roosevelt Street, 107th Avenue from Van Buren Street to McDowell Road and the 107th Avenue Private Irrigation Improvements where he served in a similar role.

Carlos Sanchez Soria, PE, Task order Manager (9 Years with TYLIN): Mr. Sanchez Soria has over 14 years of experience with transportation projects including arterial roadway design, street plan and profiles, traffic design, utility relocations, park-and-ride facilities, parking lots and feasibility studies. He has extensive experience designing major street improvements and is very detail oriented to make sure all issues are resolved during design. As the Task Order Manager, Mr. Sanchez Soria will be the primary point of contact for communications with the City. He will be responsible for monitoring the scope, schedule, and budgets, and leading the entire team. He will oversee correspondence, internal communications, progress meetings and documentation. Mr. Sanchez Soria will ensure all design elements are compatible and properly combined into constructable documents. His City of Avondale experience includes 107th Avenue from Van Buren Street to Roosevelt Street, 107th Avenue from Van Buren Street to McDowell Road and the 107th Avenue Private Irrigation Improvements where he is leading the transportation design efforts.

James Barr, PE, QA/QC Manager (9 Years with TYLIN): Mr. Barr has over 17 years of experience designing and reviewing municipal infrastructure improvements, including sidewalks, driveways, roadways, intersections, medians, storm drains and traffic control. His expertise includes utility research, ADA compatibility, roadway plan and profile, construction cost estimates, drainage analysis and reports, and signing and striping plans. Mr. Barr will provide QA/QC reviews prior to submittal to the City. His City experience includes 107th Avenue from Van

Buren Street to Roosevelt Street, 107th Avenue from Van Buren Street to McDowell Road and the 107th Avenue Private Irrigation Improvements where he served in a similar role.

Christopher Milner, PE, PTOE, Transportation (4 Years with TYLIN): Mr. Milner has over 12 years with experience on over 50 roadway projects ranging in scope from pavement preservation to urban freeway interchange construction. He has worked side-by-side with project team members on key design elements, utility and right-of-way coordination, cost estimation, and specifications to finalize bid packages. Mr. Milner specializes in design of collector and arterial roadways with an emphasis on ADA accessibility and multi-modal connectivity. He also has detailed experience completing traffic safety analysis and assessments for various transportation systems.

Kooi Lim Hoe, PE, Foundations & Structural Design (17 Years with TYLIN): Mr. Hoe has over 20 years experience in structural design and is responsible for structural analysis and design including layout, calculations, details, specifications, and final contract drawings. He has designed and managed numerous types of roadway, drainage pedestrian bridges, including precast girders, slabs and box beams, post-tensioned box girders, steel and cast-in-place slab bridges.

Lloyd Vick, PE, CFM, Hydrology/Hydraulics (8 Years with TYLIN): Mr. Vick has 25 years of experience in hydrologic and hydraulic analysis and updates, floodplain delineations, master planning,

retention and detention basin and storm drain design. He has worked on numerous drainage-related DCRs and final reports, providing him with the skills and experience necessary to quickly identify alternatives and solutions to any drainage-related issue. Throughout his career, he has prepared drainage studies, levee certifications, final plans, specifications and estimates.

Figure 3. TYLIN Organizational Chart



D. Project Approach

1. Design Philosophy

Quality, Value, Cost and Schedule Control are vitally important to TYLIN. Without adequate research, project budgets and schedules can easily slip due to unforeseen project complexities that are often overlooked or underestimated. To keep each task assignment on target and ensure our team meets the City's schedule requirements, our Task Order Manager, Carlos Sanchez Soria, will prepare a project schedule (for each task order) along with monthly schedule updates and progress reports that summarize previous decisions and results, identify issues requiring resolution and keep a pulse on stakeholder concerns. Carlos will utilize an Action Item Matrix (AIM) to keep the City fully apprised of ongoing events and responsibilities. Essentially, the AIM supplements the project schedule by providing detailed responsibilities and deadlines in both the short-term and the long-term.

Figure 4. Relevant Experience

107th Avenue, Van Buren Street to Roosevelt Street																																	
107th Avenue, Van Buren Street to McDowell Road																																	
107th Avenue Private Irrigation Improvements																																	
Feasibility Study for Solar Panel Installation on Parking Structures																																	
Agua Fria Shared-Use Path, Coldwater Park to Friendship Park																																	
City of Phoenix Annual Services On-Call																																	
City of Apache Junction On-Call Civil Engineering Services																																	
Pinal County On-Call Civil Engineering Services																																	
Lower Buckeye Rd Paving & Drainage Improvements																																	
Main Street Utility and Street Improvements																																	
Ellsworth Road Improvements																																	
Hunt Highway, Phases 1-5																																	
Rio Salado Pathway																																	
Beardsley Road Connector																																	
Galveston Pedestrian Bridge																																	
Ahwatukee Foothills ADMS/P																																	
West Mesa Park-and-Ride																																	

Carlos will actively manage the schedule and the AIM, and will take corrective action when warranted.

To avoid potential delays and/or cost overruns, Carlos will develop a Work Breakdown Structure (WBS) for each task order that will break the project into manageable tasks based on the negotiated scope of work. The WBS and the schedule will form the basis from which the project will be managed. These tools give TYLIN management the ability to constantly monitor the project to make sure that the budget and

schedule are on target and that the needs of City and the stakeholders are being met.

Development of Sound Engineering Recommendations

Delivering value and quality on-time and on-budget does not occur by accident - it results from a conscious and planned effort. TYLIN is successful in large part due to adherence to the principals of providing value and quality in all our projects.

TYLIN has built a reputation for delivering quality projects with built-in value, on time and on-budget. We will use proven methods that we have developed to deliver quality and value. Our project management methodology consists of four primary elements:

i. Thorough and Clear Understanding of the Project Issues and Requirements:

TYLIN has a clear understanding of what it takes to be successful with on-call contracts. We have provided on-call services to the City over the past six years, as well as other municipalities throughout Arizona since 1998. Responsiveness, research and careful consideration of potential alternatives are key challenges for each task assignment. We offer the City a team that knows how to manage multiple task orders, meet milestone submittals and keep momentum moving.

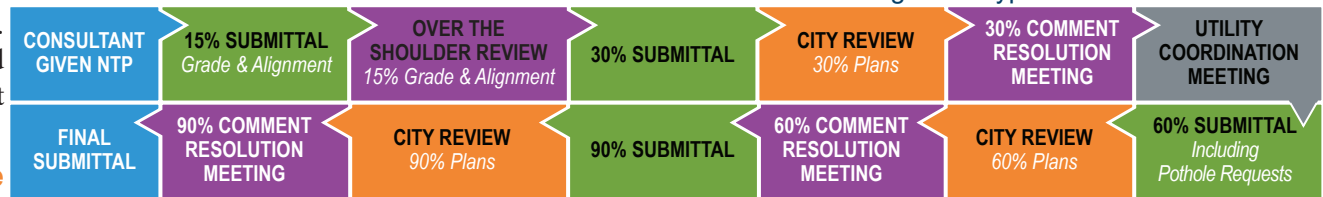
TYLIN's technical capabilities, teamwork philosophy and clear understanding of the City and its procedures/processes will bring value to each task order.

ii. Clearly Defined Management Approach and Work Plan:

TYLIN will prepare a project management plan based on research and understanding of each task order. This plan will give the team a tool that outlines the project scope and requirements, schedule (including milestone deadlines), anticipated meetings, and expectations for project documentation, communication and quality assurance.

iii. Open, Honest and Continual Communication and Coordination:

- A critical element of any project is the need to avoid miscommunication and ensure compliance with the Scope, Schedule and Budget. This element includes:
- **Regular Contact** (typically weekly) with the City Project Manager to keep him/her apprised of project progress and concerns, and to allow him/her adequate time for input into any project issue.
 - **Scheduled Progress/Coordination Meetings** to distribute project information and to discuss and



resolve project challenges. Carlos Sanchez Soria will keep an AIM that will outline issues and responsibilities, including deadlines. This Matrix will be distributed along with the Agenda prior to every meeting so that participants are prepared to discuss and resolve issues at the meeting.

- **Design Discussions/Workshops** with the team to discuss and reach agreement on such items as drainage, right of way, roadway geometrics, structures, traffic analysis, construction sequencing and utility conflicts/relocations.
- **Pre-Submittal Reviews** with the City Project Manager prior to Milestone submittals to ensure that there are no surprises and that the submittal package is complete and meets City expectations.

iv. Realistic Milestone Schedule: TYLIN is familiar with the unique challenges of on-call contracts. Our staff has the experience and flexibility to handle urgent tasks with tight timelines. If necessary, we can adjust our manpower to meet the City's specific requirements for each task assignment, regardless of project size or number of disciplines involved. Carlos Sanchez Soria will prepare an initial project schedule using MS Project that will be discussed with the City Project Manager and modified as appropriate. Carlos will maintain the schedule and provide monthly updates along with a progress memorandum to the City that summarizes progress to date, identifies issues requiring resolution and tracks stakeholder concerns. As with any on-call task order, specific schedules will be based upon the actual scope of work and City goals/objectives associated with a given project. TYLIN has

a thorough understanding of the City's typical schedule process, as outlined in Figure 5.

Cost Control

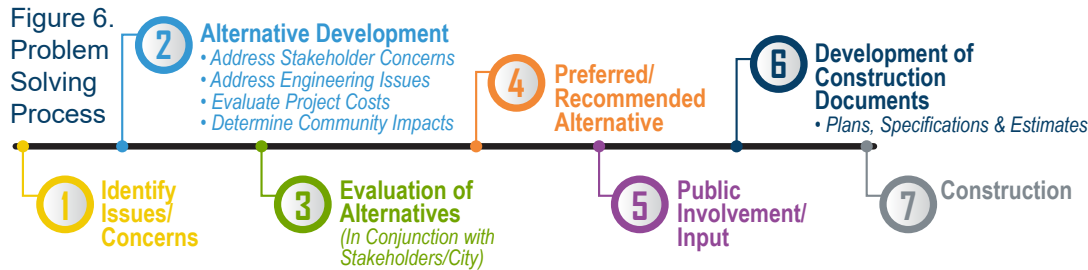
TYLIN uses Deltek Vision as our Management Information System tool. By utilizing this software, TYLIN has flexibility to monitor and control project progress and budget on a regular basis. Because on-call projects can vary in complexity, this flexibility is essential to effectively manage multiple task orders simultaneously. Carlos Sanchez Soria will carefully monitor project costs on a regular basis and clearly communicate project progress and expenditures.

Approach to Problem Resolution

TYLIN understands that on any given project, problems can arise from a myriad of sources, and that it is how we react to those problems which set us apart. Our staff has the experience, technical expertise and flexibility to handle urgent tasks as they arise with tight timelines. Innovation and creativity will be brought to this contract by each member of our team to provide value to the City on each task order. In addition we are sensitive to the community and political concerns that may be associated with technical solutions to project challenges. The TYLIN team strives to provide our clients with technically sound solutions that carefully consider cost and community acceptance.

Based on our past on-call and project experience, there are several strategies that can be implemented when changes need to be made to avoid or make up any slippage of the schedule. These strategies include:

- Developing and maintaining a focused and narrowed scope for the project.



- Re-sequencing the design work to focus on the functional elements with the most potential to slow the project such as obtaining the environmental clearance prior to proceeding with 60% plans (if federally funded).
- Meeting weekly with the City and project stakeholders to discuss critical path or near-critical path activities.
- Maintaining a weekly schedule update and asking the project owners for input and discussion on the schedule.
- Providing additional resources.
- Working extended hours.

Figure 6 outlines the process that we will follow in evaluating and remediating any issue that may arise on a given task order.

Quality Assurance/Quality Control (QA/QC)

As part of our commitment to quality service, TYLIN has an established formal QA/QC program (Figure 7) that is implemented on all projects. This program promotes prevention rather than detection, and requires independent project reviews at all milestone stages by senior engineering staff.

Federal Funding Process

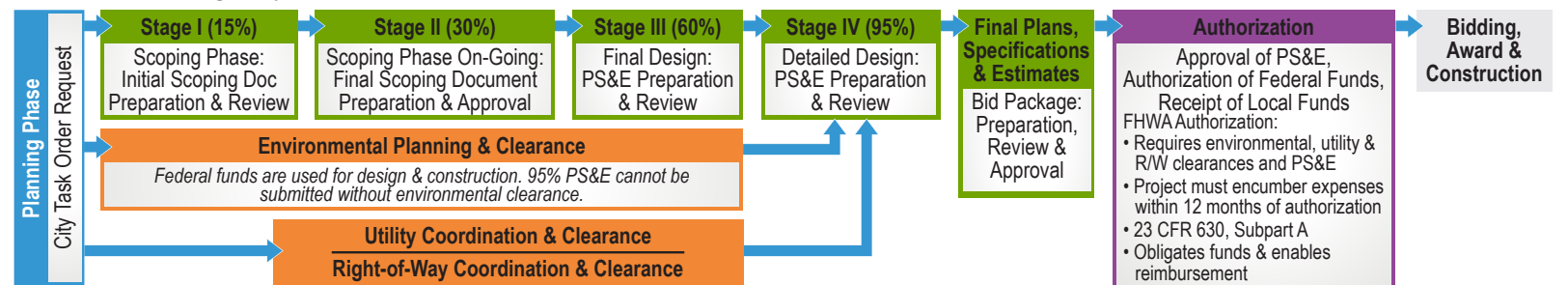
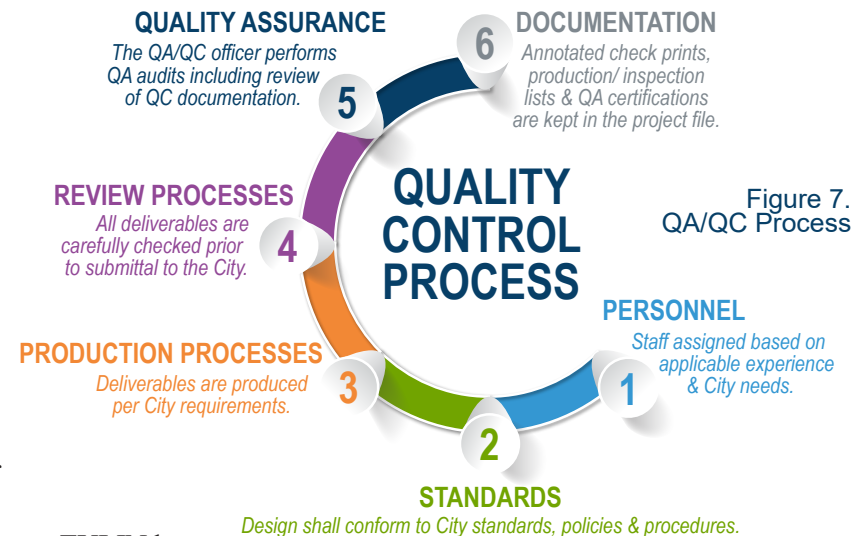
It is likely that some task orders for this contract will be subject to the Federal Project Approval Process (Figure 8) whenever federal

funding is a viable option for a given task order. Often times, the key to obtaining federal clearances and approval in a timely manner are the early identification of potential issues and detailed involvement of project stakeholders early in the project development process. Furthermore, TYLIN has completed environmental documentation to all levels of NEPA federal compliance (Categorical Exclusions, Environmental Assessments and Environmental Impact Statements) and is extremely capable of obtaining environmental clearance for any task order.

2. Familiarity with City Standards

TYLIN has reviewed the City's standard insurance requirements and contract documents and will comply with all requirements. TYLIN contracts with the following insurance companies:

- **Hartford Fire Insurance Company:** General Liability
- **Hartford Casualty Insurance Company:** Automobile Liability



SECTION A

PART IV. DISCIPLINE SPECIALTY CHECKLIST

Name of Firm: T.Y. Lin International

Address: 60 E. Rio Salado Parkway, Suite 501

City: Tempe State: AZ Zip Code: 85281

Contact Name: Carlos Sanchez Soria, PE

Title: Senior Associate/Project Manager

Telephone: (480) 968-8814 Facsimile: (480) 921-0002

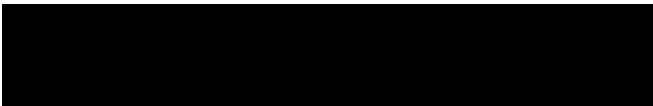
Please check only those discipline categories for which you are particularly qualified, fully addresses, and desired to be considered.

☐	Architecture		
☐	Building and Fire Plan Review and Inspection Services	☐	Improvement District Administration
☐	CADD Services	☐	Landscape Architect
☐	Construction Management & Inspection	☐	Planning
☐	Economic & Fiscal Impact Analysis	☐	Property Appraisal Services
☐	Electrical Design and SCADA	☐	Streetlight Design
☐	Engineering Plan Review	☐	Subsurface Utility Investigation
☒	Foundation & Structural Design	☐	Surveying
☐	Geotechnical & Environmental	☐	Traffic Engineering
☐	GIS Programs	☒	Transportation Engineering
☐	Hydrogeological Engineering	☐	Wastewater Systems
☒	Hydrology/Hydraulic Projects	☐	Water Distribution and Treatment System

SECTION A

PART V. VENDOR INFORMATION FORM

By submitting a Statement of Qualifications, the submitting Vendor certifies that it has reviewed the administrative information and draft of the Professional Services Agreement's terms and conditions and, if awarded the Agreement, agrees to be bound thereto.

<u>T.Y. Lin International</u> VENDOR SUBMITTING SOQ	<u>94-1598707</u> FEDERAL TAX ID NUMBER
<u>Daniel Heller, Vice President</u> PRINTED NAME AND TITLE	 AUTHORIZED SIGNATURE
<u>60 E. Rio Salado Parkway, Suite 501</u> ADDRESS	<u>(480) 968-8814</u> <u>(480) 921-0002</u> TELEPHONE FAX #
<u>Tempe</u> <u>AZ</u> <u>85281</u> CITY STATE ZIP	<u>June 27, 2018</u> DATE
WEB SITE: <u>www.tylin.com</u>	E-MAIL ADDRESS: <u>dan.heller@tylin.com</u>

SMALL, MINORITY, DISADVANTAGED AND WOMEN-OWNED BUSINESS ENTERPRISES (check appropriate item(s):

- ☐ Small Business Enterprise (SBE)
- ☐ Minority Business Enterprise (MBE)
- ☐ Disadvantaged Business Enterprise (DBE)
- ☐ Women-Owned Business Enterprise (WBE)

Has the Vendor been certified by any jurisdiction in Arizona as a minority or woman-owned business enterprise?

If yes, please provide details and documentation of the certification.

Daniel Heller, PE

Mr. Heller has over 39 years of management of civil and structural engineering projects. His responsibilities include project management and quality control for the projects designed in the Arizona office. His design experience has included the preparation of all types of preliminary and final design contract documents and critical post-design services for various urban freeway, local and rural roadway projects. He has the authority to commit resources on behalf of the firm. He will manage all contractual obligations and will ultimately be responsible for TYLIN's performance.

Registrations (Civil Engineer):

Arizona (21207) | California (50191) | Colorado (19463) | Florida (47266) New Mexico (13009) | Texas (82443) | Tennessee (18962) | Utah (312838-2203)

Academic Achievements:

M.S., Civil Engineering, Tennessee Technological University, 1978
B.S., Civil Engineering Tennessee Technological University, 1977

Professional Affiliations:

Member, ASCE | Member, APWA | Member, ACEC-AZ | Member, American Concrete Institute

107th Avenue, Van Buren Street to Roosevelt Street, City of Avondale:

Principal-in-Charge. TYLIN is currently completing final design for an interim roadway section along approximately 1/2-mile of 107th Avenue (Van Buren Street to Roosevelt Street) to accommodate near term traffic needs. This includes roadway widening to facilitate

a 5-lane roadway section, drainage analysis and design including retention basins located along the west side of the roadway, signing and striping design, lighting design and detailed utility relocation design and coordination. TYLIN also designed a slurry seal and restriping plan at both ends of the project to maximize the City's investment and allow for a finished roadway product (0.90-miles) between Roosevelt Parkway and Dealer Drive.

107th Avenue, Van Buren Street to McDowell Road, City of Avondale:

Mr. Heller served as Principal-in-Charge/QA/QC for the evaluation of ultimate roadway improvements. The project includes 3 lanes in each direction with a raised median, bike lanes, detached sidewalk as well as intersection improvements at Van Buren Street (dual left turn lanes, dedicated right turn lanes and bus bays) and Roosevelt Street (left turn lanes and dedicated right turn lanes). In addition, the proposed roadway geometrics will account for a future segment of the Valley Metro Light Rail planned between McDowell Road and Roosevelt Street including beneath the I-10/107th Avenue traffic interchange. We are also investigating existing and future utilities within the project area and identified additional right-of-way required for the ultimate improvements. TYLIN worked closely with SRP to provide new easements for existing overhead power lines and a recently constructed irrigation pipe which was relocated outside of the ultimate right-of-way. Lastly, a private irrigation ditch along the west side of 107th Avenue (Van Buren Street to Roosevelt Street) was recently removed and reconstructed outside of SRP's overhead easement.

107th Avenue Private Irrigation Improvements, City of Avondale:

Principal-in-Charge. TYLIN completed relocation design plans for existing private irrigation facilities along the west side of 107th Avenue between north of Van Buren Street and Roosevelt Street totaling approximately 1,300' in total length. The relocated system consisted primarily of a concrete lined irrigation open ditch with pipe and structure connections to existing

ditches running east/west along Roosevelt Street and the private parcel line. TYLIN designed the relocated facility to accommodate the future alignment and ultimate right-of-way width along 107th Avenue as well as a 30-foot USA easement for irrigation and 30-foot overhead power easement.

Feasibility Study for Solar Panel Installation on Existing Parking Shade Structures, City of Avondale:

Mr. Heller served as the Principal-in-Charge/QA/QC for a structural analysis of the existing parking shade canopies located on the City Municipal Campus adjacent to the City Library, Court and Police Buildings. The analysis was conducted to determine the feasibility of installing solar panels on the roofs of each structure and included retrofit recommendations to various components of the structures to support the additional loading.

Annual On-Call Services, City of Phoenix:

Principal-in-Charge. This contract includes various preliminary and final design tasks for several different City of Phoenix Departments including Aviation, Parks and Recreation, Public Works and Street Transportation. Projects assigned under this contract included paving and drainage, traffic engineering, transportation engineering, groundwater hydrology, civil engineering and AutoCAD drafting, structural engineering of bridges and building facilities, water and wastewater systems, construction administration and engineering and construction support.

On-Call Civil Engineering, City of Apache Junction:

Principal-in-Charge for engineering services on three projects under this contract. These tasks have included: feasibility studies, ADA improvements, storm drain, water line and sewer line design, roadway and intersection improvements, and drainage improvements.

On-Call Civil Engineering, City of Tempe:

Principal-in-Charge for engineering services to the City of

Tempe for the Rio Salado Pathway at Priest Drive Underpass consisting of a new 800' ADA pathway connecting the existing pathways together.

On-Call Civil Engineering Services, Pinal County: Mr. Heller served as Principal-in-Charge/QA/QC for 11 task assignments under this contract since its award in 2009, including Hunt Highway Phase 1A "Federalization", Hunt Highway Phases 2, 3, 4, and 5 final designs; Gantzel Road; Phases 1 and 2 of Bella Vista Road and several TIGER Grant applications for various segments of Hunt Highway and the Kelvin Bridge. Design of a median closure along Ironwood Drive south of Combs Road was another Task Assignment completed under this contract.

On-Call Statewide and Local Government Projects, ADOT: Principal-in-Charge for engineering services to develop project scoping documents, design and construction PS&E to improve the safety and operational characteristics of roadways and infrastructure throughout Arizona. These projects include roadway design, intersection improvements, medians, curb, gutter and sidewalk, drainage, erosion, retaining walls, and signing and striping. Completed two pavement preservation projects (one in San Luis and one in Page), one 2-mile long ITS project in Avondale and a sidewalk installation project in the City of Maricopa. All projects being completed under this contract are currently going through the Federal Project Approval Process.

On-Call Transportation Engineering Services, MCDOT: Over the past 5 years, served as the Principal-in-Charge for eight work assignments. Tasks included scoping and design reports, scoping plans and right-of-way strip maps; roadway engineering and intersection improvements; structural analysis and design; utility coordination and relocation; and drainage analysis and design. Detailed project costs were developed to aid the County in their programming efforts for final design and construction.

On-Call Bridge and Drainage Design Services, ADOT: Principal-in-Charge. Many of these projects included managing and preparing scoping letters, project assessment reports, construction plans, specifications, quantities and cost estimates, special provisions, other related construction documents, and bid packages. Services required for this contract also include roadway, drainage and traffic design; geotechnical investigation, testing, and design; mapping and survey; right-of-way identification; utilities investigation; environmental clearances and other general civil items. Post Design Services (including attending partnering and preconstruction meetings) was also a key component to assist during construction.

Galveston Pedestrian Bridge, City of Chandler: Principal-in-Charge. The Galveston Street Bicycle & Pedestrian Bridge is the vital link to the re-establishment of Chandler's Bike System, maintaining the City's reputation as "the most connected City in the Valley". This Bicycle/Pedestrian Bridge is site specific in its location and will be integrated into the earth embankments on both sides of the freeway as well as onto the concrete pier, spanning the freeway and frontage roads. The bridge will provide a connection to the existing bicycle and pedestrian pathways on the east and west sides of the freeway.

McQueen Road Widening (CMAR), City of Chandler, Arizona: Mr. Heller provided overall management of widening the existing Queen Creek box structure across the Consolidated Canal and replacing the McQueen structure across the Consolidated Canal. The project consists of widening Queen Creek Road to six lane divided major arterial, widening McQueen Road to six lane divided major arterial between Queen Creek Road and Chandler Heights Road, widening McQueen Road to four lane divided minor arterial between Chandler Heights and Riggs Road. Mr. Heller was responsible for preparing an Initial Bridge Selection Report for the proposed widening of box culverts at both McQueen and Queen Creek Road.

Upon selection of the existing alternative, he prepared plans, specifications and estimates for each of the two sites.

116th Avenue Bridge (PIR) at the Gila River, MCDOT: Project Manager/Structures Engineer for a new bridge crossing the Gila River along 116th Avenue, which lies west of the existing low water crossing of the river at 115th Avenue. TYLIN was selected by the contractor to provide additional value engineering. The superstructure was redesigned using 78" deep AASHTO beams. This resulted in a material savings of 36-140' long beams, reducing the overall schedule and cost. TYLIN worked closely with Sundt and the Engineer of Record to provide plans, specifications and shop drawings on a very fast schedule, eliminating any impact to the sensitive time frame for completion.

Agua Fria Shared-Use Path, Coldwater Park to Friendship Park, City of Avondale: Project Manager for structural design services for the development of a new shared-use path along the Agua Fria River in Avondale. The 2.5-mile project included trails along the bank of the normally dry Agua Fria River, connections to existing trails and parks and the crossings of two major transportation facilities. This was the first project to be developed along the planned 34-mile long Trail System.

Tempe Town Lake Bicycle/Pedestrian Bridge, City of Tempe: Mr. Heller served as the Project Manager for the City of Tempe for the development of a new bicycle/pedestrian bridge across the Tempe Town Lake near the Tempe Center for the Arts. This bridge will provide a connection to the existing bicycle and pedestrian pathways on the north and south banks of the lake. The bridge will link parks, recreational facilities, and the Tempe Center for the Arts with the Mill Avenue District, the heart of Downtown Tempe. Shade and lighting are also provided for the structure to enhance the pedestrian experience. Mr. Heller was responsible for the bridge design and associated aesthetic, stakeholder coordination and utility improvements.

Carlos Sanchez Soria, PE

Mr. Sanchez Soria offers 14 years of engineering experience including the design of roadways, domestic water, sanitary sewer, natural gas, ITS conduit (traffic signal interconnect) and storm drainage projects. Mr. Sanchez Soria's expertise includes utility research and coordination, data compilation, roadway plan and profile, construction cost estimates, and drainage analysis and reports. He is an experienced utility design professional who offers extensive expertise in permitting, planning and design.

Registrations (Civil Engineer):
Arizona (48279) | California (73660)

Academic Achievements:
B.S., Civil Engineering, University of Arizona,
2003

Professional Affiliations:
Member, ASCE | Member, ACEC-AZ

107th Avenue, Van Buren Street to Roosevelt Street, City of Avondale: Task Order Manager. TYLIN is currently completing final design for an interim roadway section along approximately 1/2-mile of 107th Avenue (Van Buren Street to Roosevelt Street) to accommodate near term traffic needs. This includes roadway widening to facilitate a 5-lane roadway section, drainage analysis and design including retention basins located along the west side of the roadway, signing and striping design, lighting design and detailed utility relocation design and coordination. TYLIN also designed a slurry seal and restriping plan at both ends of the project to maximize the City's investment and allow for a finished roadway product (0.90-miles) between Roosevelt Parkway and Dealer Drive.

107th Avenue, Van Buren Street to McDowell Road, City of Avondale: Task Order Manager. TYLIN completed a preliminary geometric layout evaluating ultimate roadway improvements including 3 lanes in each direction with a raised median, bike lanes, detached sidewalk and intersection improvements at Van Buren Street (dual left turn lanes, dedicated right turn lanes and bus bays) and Roosevelt Street (left turn lanes and dedicated right turn lanes). In addition, the proposed roadway geometries account for a future segment of the Valley Metro Light Rail planned between McDowell Road and Roosevelt Street including beneath the I-10/107th Avenue traffic interchange. We also investigated existing and future utilities within the project area and identified additional right-of-way required for the ultimate improvements. TYLIN worked closely with SRP to provide new easements for existing overhead power lines and a future irrigation pipe (under design) to be relocated outside of the ultimate right-of-way. Lastly, a private irrigation ditch along the west side of 107th Avenue (Van Buren Street to Roosevelt Street) was recently removed and reconstructed outside of SRP's overhead easement.

107th Avenue Private Irrigation Improvements, City of Avondale: Task Order Manager. TYLIN completed relocation design plans for existing private irrigation facilities along the west side of 107th Avenue between north of Van Buren Street and Roosevelt Street totaling approximately 1,300' in total length. The relocated system consisted primarily of a concrete lined irrigation open ditch with pipe and structure connections to existing ditches running east/west along Roosevelt Street and the private parcel line. TYLIN designed the relocated facility to accommodate the future alignment and ultimate right-of-way width along 107th Avenue as well as a 30-foot USA easement for irrigation and 30-foot overhead power easement.

Annual On-Call Services, City of Phoenix: Mr. Soria is the Deputy Project Manager for various preliminary and final design tasks for several different City of Phoenix

Departments including Aviation, Parks and Recreation, Public Works and Street Transportation. Projects assigned under this contract included paving and drainage, traffic engineering, transportation engineering, groundwater hydrology, civil engineering and AutoCAD drafting, structural engineering of bridges and building facilities, water and wastewater systems, construction administration and engineering and construction support.

On-Call Civil Engineering, City of Tempe: Mr. Soria is the Project Engineer responsible for providing engineering services to the City of Tempe for the Rio Salado Pathway at Priest Drive Underpass consisting of a new 800' ADA pathway connecting the existing pathways together.

Main Street Utility and Street Improvements (Mesa Drive to Val Vista Drive), City of Mesa: Mr. Soria served as Project Engineer/Designer responsible for completing plans, special provisions and cost estimates for the rehabilitation of Main Street for one-mile from Lindsay Road to Val Vista Drive. Improvements include a 2½" full-width mill and overlay along with minor sidewalk, driveway and curb & gutter reconstruction. The improvements also include a 16" waterline, a 4" gas line and 2" ITS conduits (traffic signal interconnect) for this section of Main Street. Fire hydrant locations were analyzed and new hydrants were added to adhere to current fire department requirements. In addition, storm drain facilities were analyzed and upgraded to intercept and convey the 10-year design storm in the street (100-year within right-of-way) along Main Street between Mesa Drive and Val Vista Drive (4-miles). As a result, several new catch basins along with a new storm drain system (36"-54" pipe size) were proposed.

Lower Buckeye Road Storm Drain and Paving Improvements, 35th Avenue to 43rd Avenue, City of Phoenix: Mr. Soria served as Project Engineer/Designer responsible for the preparation of plans, special

provisions and construction cost estimates for 1 mile of storm drain and roadway improvements. The storm drain mainline was designed to alleviate drainage concerns along this segment of the road which is located within a floodplain. The storm drain mainline ranges in size from 24" at the upstream to 60" at the outlet. In addition, several catch basins were sized and located throughout the project to intercept the 2-year storm and maintain one dry lane in each direction. The project also consists of field topographic mapping, right-of-way acquisition, extensive utility relocations including 12kV power poles, 30" irrigation pipes and structures, fiber optic, telephone lines and street lights. The project also included paving, curb, gutter and sidewalk infrastructure, as well as the reconstruction of an existing railroad crossing (including signals, concrete approach, switch and approximately 800' railroad tracks).

Rio Salado Pathway Segment III, City of Mesa:

Mr. Soria is serving as the Project Engineer for the design of a federally funded multi-use pathway along the south bank of the Salt River within the City of Mesa from the SR 101L/SR 202L interchange to Wrigleyville West (approximately 1.1 miles). The pathway design will include an ADA compliant multi-use trail (either compacted DG or concrete depending on funding), landscaping (including a mode at Wrigleyville West), lighting, rail design and signing/striping.

64th Street, Bell Road to Mayo Boulevard Feasibility Study, City of Phoenix:

Mr. Soria served as the Assistant Project Manager for preparing a Feasibility Study for new roadway improvements along the 64th Street alignment from Bell Road to Mayo Boulevard as well as adding lanes to the existing roadway along the north side of Mayo Boulevard from 56th Street to 64th Street. The 64th Street alignment (Bell Road and Mayo Boulevard) is approximately 1.10 miles in length and includes one crossing of the Central Arizona Project (CAP) Canal. The future segment of 64th Street is currently undeveloped with a portion of it (2,900 L.F.) crossing Dike 2 of the Reach 11

flood detention system. Mayo Boulevard (56th Street and 64th Street) is approximately 1.15 miles in length. A majority of the existing Mayo Boulevard is currently a two lane road with a painted median and curb/gutter improvements on the south side. He developed a Feasibility Study that provided the information necessary to evaluate the potential issues and anticipated costs for designing and constructing the proposed roadway improvements in the near future.

Hunt Highway from Empire Boulevard (County Line) to the Town of Florence Limits DCR and Phase 1-5 Final Design, Pinal County:

Mr. Soria served as the Project Manager finalizing construction documents for widening improvements along Hunt Highway between Empire Boulevard and New Magma Road – approximately nine miles in length. The project also includes the 1.5-mile extension of Gantzel Road, from Bella Vista Road to Hunt Highway, across current ASLD property. The project design has included detailed roadway grading to eliminate low wash crossings as well as major off-site channel design, concrete box and pipe culvert design and traffic design including proposed signals, signing and pavement marking and detailed maintenance of traffic plans. Because the first phase was federally funded, Phase 1 included the preparation of a Categorical Exclusion for the approximately 2-mile long segment of Hunt Highway between Empire Boulevard and Thompson Road.

43rd Avenue Paving and Drainage Improvements (Lower Buckeye Road to Buckeye Road), City of Phoenix:

Mr. Sanchez Soria served as Deputy Project Manager responsible for finalizing the plans, drainage report and construction cost estimates for one mile of roadway and drainage improvements along 43rd Avenue from Lower Buckeye Road to Buckeye Road. This project has included substantial coordination with SRP Power and Irrigation as the proposed roadway improvements are in conflict with existing SRP facilities (69kV power and irrigation pipeline along the west side of the roadway). The

TYLIN Team has worked very closely with SRP Irrigation to determine an acceptable alignment for the relocated pipeline by adjusting the proposed roadway curb and sidewalk locations to avoid the existing power poles and allow for irrigation line reconstruction. As part of this project, our Team has worked closely with the City's Street Transportation and Real Estate Departments to resolve the Arizona State Land Department, USA Fee and El Paso Natural Gas Easement right-of-way issues along the west side of the roadway.

Sonoran Desert Drive Alignment Study, City of Phoenix:

Mr. Sanchez Soria was the Deputy Project Manager for developing an alignment study to establish the recommended alternative for the geometric design of a new 6-lane major arterial road along Sonoran Desert Drive between Paloma Parkway and Dove Valley Road (3.5-miles). As part of this study, Mr. Barr is identifying major culvert and bridge locations, corridor designations, likely trail alignments adjacent to the study roadways, roadway aesthetics and ideal locations for intersecting collector roads along both Sonoran Desert Drive and Dove Valley Road. We have evaluated five alternatives at the intersection of Sonoran Desert Drive and Dove Valley Road and provided a recommendation for the ultimate configuration. The alignment study involved detailed community involvement – namely the Sonoran Foothills community, ASLD, developers (Taylor Morrison) and Phoenix Parks and Recreation Department. Three public meetings were held to obtain community approval of the recommendations set forth in the study. This alignment study will serve as a guide for future development in this area and will ensure this major arterial is constructed per City of Phoenix standards and requirements.

James Barr, PE

Mr. Barr offers 17 years of engineering experience. His professional experience includes designing infrastructure projects including roadways, waterlines, storm drainage, and traffic control. Mr. Barr's expertise includes roadway design utility research, data compilation, construction cost estimates, drainage analysis and reports, and signing and striping plans.

Registrations (Civil Engineer):

Arizona (43112) | California (67247) | New Mexico (18764)

Academic Achievements:

B.S., Civil Engineering, University of Arizona, 2001

Professional Affiliations:

Member, ASCE | Member, APWA | Member, ACEC-AZ | Member, ASHE

107th Avenue, Van Buren Street to Roosevelt Street, City of Avondale:

QA/QC Manager. TYLIN is currently completing final design for an interim roadway section along approximately 1/2-mile of 107th Avenue (Van Buren Street to Roosevelt Street) to accommodate near term traffic needs. This includes roadway widening to facilitate a 5-lane roadway section, drainage analysis and design including retention basins located along the west side of the roadway, signing and striping design, lighting design and detailed utility relocation design and coordination. TYLIN also designed a slurry seal and restriping plan at both ends of the project to maximize the City's investment and allow for a finished roadway product (0.90-miles) between Roosevelt Parkway and Dealer Drive.

107th Avenue, Van Buren Street to McDowell Road, City of Avondale:

QA/QC Manager. TYLIN completed a preliminary geometric layout evaluating ultimate roadway improvements including 3 lanes in each direction with a raised median, bike lanes, detached sidewalk and intersection improvements at Van Buren Street (dual left turn lanes, dedicated right turn lanes and bus bays) and Roosevelt Street (left turn lanes and dedicated right turn lanes). In addition, the proposed roadway geometrics account for a future segment of the Valley Metro Light Rail planned between McDowell Road and Roosevelt Street including beneath the I-10/107th Avenue traffic interchange. We also investigated existing and future utilities within the project area and identified additional right-of-way required for the ultimate improvements. TYLIN worked closely with SRP to provide new easements for existing overhead power lines and a future irrigation pipe (under design) to be relocated outside of the ultimate right-of-way. Lastly, a private irrigation ditch along the west side of 107th Avenue (Van Buren Street to Roosevelt Street) was recently removed and reconstructed outside of SRP's overhead easement.

107th Avenue Private Irrigation Improvements, City of Avondale:

QA/QC Manager. TYLIN completed relocation design plans for existing private irrigation facilities along the west side of 107th Avenue between north of Van Buren Street and Roosevelt Street totaling approximately 1,300' in total length. The relocated system consisted primarily of a concrete lined irrigation open ditch with pipe and structure connections to existing ditches running east/west along Roosevelt Street and the private parcel line. TYLIN designed the relocated facility to accommodate the future alignment and ultimate right-of-way width along 107th Avenue as well as a 30-foot USA easement for irrigation and 30-foot overhead power easement.

Feasibility Study for Solar Panel Installation on Existing Parking Shade Structures, City of Avondale:

Task Order Manager. TYLIN performed

a structural analysis of the existing parking shade canopies located on the City Municipal Campus adjacent to the City Library, Court and Police Buildings. The analysis was conducted to determine the feasibility of installing solar panels on the roofs of each structure and included retrofit recommendations to various components of the structures to support the additional loading.

Annual On-Call Services, City of Phoenix:

Mr. Barr is the Project Manager. This contract includes various preliminary and final design tasks for several different City of Phoenix Departments including Aviation, Parks and Recreation, Public Works and Street Transportation. Projects assigned under this contract included paving and drainage, traffic engineering, transportation engineering, groundwater hydrology, civil engineering and AutoCAD drafting, structural engineering of bridges and building facilities, water and wastewater systems, construction administration and engineering and construction support.

On-Call Civil Engineering, City of Apache Junction:

Mr. Barr is the Project Manager responsible for providing engineering services to the City of Apache Junction on three projects under this contract. These tasks have included: feasibility studies, ADA improvements, storm drain, water line and sewer line design, roadway and intersection improvements, and drainage improvements.

On-Call Civil Engineering, City of Tempe:

Mr. Barr is the Project Manager responsible for providing engineering services to the City of Tempe for the Rio Salado Pathway at Priest Drive Underpass consisting of a new 800' ADA pathway connecting the existing pathways together.

On-Call Civil Engineering Services, Pinal County:

Over the last 5-years, Mr. Barr has served as the Project Manager responsible for 11 task assignments under this contract since its award in 2009, including Hunt Highway Phase 1A "Federalization", Hunt Highway Phases

QA/QC Manager

Resumes



2, 3, 4, and 5 final designs; Gantzel Road; Phases 1 and 2 of Bella Vista Road and several TIGER Grant applications for various segments of Hunt Highway and the Kelvin Bridge. Design of a median closure along Ironwood Drive south of Combs Road was another task assignment completed.

Intel Ocotillo Plant OC8/NTS Design-Build Parking Lot, Chandler, Arizona: Mr. Barr served as Project Manager for the design and construction plans for a concrete parking lot on an 8-acre site adjacent to the OC8 and NTS buildings at the Ocotillo Intel plant in Chandler, Arizona. The design provided for approximately 830 parking spaces split amongst two separated lots. As part of the project, Mr. Barr also provided detailed drainage analysis and design, landscape and irrigation design and electrical design. At the onset of the project, he was tasked with developing alternatives for a non-VOC pavement surface due to the parking lot's proximity to the OC8 building. Due to a heavily accelerated project schedule, Mr. Barr prepared project construction documents in less than 3 weeks for issuance of an at-risk grading permit.

Ellsworth Road Improvements, MCDOT: Mr. Barr served as Project Manager for providing oversight of professional engineering services to MCDOT and the Town of Queen Creek for the preparation of roadway improvement plans for 1 ¾-mile stretch of Ellsworth Road. The project limits extend from Cloud Road to Hunt Highway and involves extensive coordination between the Town of Queen Creek, MCDOT, Flood Control, Pinal County, and adjacent developments currently in design. The design of this stretch of Ellsworth Road consists of the preparation of paving plan and profile sheets, storm drain plan and profile sheets, street lighting, traffic signal design, and signing and striping plans.

Riggs Road, Recker Road to Power Road, MCDOT/Town of Gilbert: Mr. Barr served as Project Manager for the Preliminary Engineering documentation (Scoping and Design Report and Scoping Plans) and is currently in final design for the widening of Riggs Road to

a 7-lane section for 1-mile between Power Road and Recker Road. This includes the intersections of Riggs Road with Recker Road and Power Road with each intersection designed to be widened to its ultimate width (7-lane configuration) to avoid any future relocation of utilities or signal equipment. A detailed drainage analysis was completed for the project to size and locate a mainline storm drain system designed to capture and convey 10-year street flows in accordance with Maricopa County design criteria. The project also includes extensive right-of-way and easement acquisition – in total land will be acquired from over 40 parcels to facilitate the proposed improvements. Finally, Mr. Barr is completing irrigation relocation design for approximately ½-mile of QCID 36" irrigation mainline to outside of the roadway prism. As part of this effort, Mr. Barr is coordinating with QCID and the BOR to "turn over" acquired right-of-way to the BOR so that the relocated irrigation pipe will fall within a 50'-wide perspective right easement.

East Mesa Subdivisions Phase II Scoping and Final Design, MCDOT/City of Mesa: Mr. Barr served as Project Manager for the rehabilitation of several roadways throughout various subdivisions in east Mesa. Rehabilitation is anticipated to include detailed roadway and drainage improvements within the existing roadway prisms throughout these subdivisions. Mr. Barr will improve the conveyance of roadway drainage via the installation of various infrastructure. He is developing recommendations for these improvements to provide a 20-year life span of the pavement section and improved drainage conveyance.

Lower Buckeye Road Paving Improvements, 35th Avenue to 43rd Avenue (CMAR), City of Phoenix: Mr. Barr served as Project Manager responsible for the oversight of plans, special provisions and construction cost estimates for 1½ miles of arterial roadway and storm drain improvements along Lower Buckeye Road from 35th Avenue to 43rd Avenue. The project consists of field topographic mapping, right-of-way acquisition, utility

relocation and redesign, paving, curb, gutter and sidewalk infrastructure and drainage improvements. The project also included extensive coordination with adjacent property owners, the UPRR and various utility owners.

Sonoran Desert Drive Alignment Study, City of Phoenix: Mr. Barr was the Project Manager for developing an alignment study to establish the recommended alternative for the geometric design of a new 6-lane major arterial road along Sonoran Desert Drive between Paloma Parkway and Dove Valley Road (3.5-miles). As part of this study, Mr. Barr is identifying major culvert and bridge locations, corridor designations, likely trail alignments adjacent to the study roadways, roadway aesthetics and ideal locations for intersecting collector roads along both Sonoran Desert Drive and Dove Valley Road. We have evaluated five alternatives at the intersection of Sonoran Desert Drive and Dove Valley Road and provided a recommendation for the ultimate configuration. The alignment study involved detailed community involvement – namely the Sonoran Foothills community, ASLD, developers (Taylor Morrison) and Phoenix Parks and Recreation Department. Three public meetings were held to obtain community approval of the recommendations set forth in the study. This alignment study will serve as a guide for future development in this area and will ensure this major arterial is constructed per City of Phoenix standards and requirements.

Rio Salado Pathway Segment III, City of Mesa: Mr. Barr is the Project Manager for design of a federally funded multi-use pathway along the south bank of the Salt River within the City of Mesa from the SR 101L/SR 202L interchange to Wrigleyville West (approximately 1.1 miles). The pathway design includes an ADA compliant multi-use trail (either compacted DG or concrete depending on funding), landscaping (including a mode at Wrigleyville West), lighting, rail design and signing/striping. Mr. Barr is also completing a NEPA clearance for the project in accordance with FHWA and Arizona Department of Transportation (ADOT) EPG standards.



Christopher Milner, PE, PTOE

Mr. Milner has over 12 years with experience on over 50 roadway projects ranging in scope from pavement preservation to urban freeway interchange construction, Chris has developed construction documents for over \$340M in construction costs. He has worked side by side with project team members on key design elements, utility and right-of-way coordination, cost estimation, and specifications to finalize bid packages.

Registrations (Civil Engineer):
Arizona (51336)

Registrations (Professional Traffic Operations Engineer):
National (3096)

Academic Achievements:
B.S., Civil Engineering Iowa State University, 2006

Professional Affiliations:
Member, ITE

Ellsworth Road/Queen Creek Road Intersection Improvement, Town of Queen Creek: Mr. Milner served as Project Engineer for an alternative analysis and final design of the realignment of the Ellsworth Road/Queen Creek Road intersection. The project included an initial evaluation of multiple intersection realignment alternatives to improve the operations and safety of the intersection. Once the preferred alternative was selected, final PS&E commenced to shift the intersection northwesterly to remove the existing “kink” along Ellsworth Road. Final design includes: additional lanes in the southbound direction,

drainage analysis and design, traffic signal relocation design, major utility relocation design and detailed coordination with FCDMC.

Grand Canalscape, City of Phoenix: Deputy Project Manager. Phase I of the Grand Canalscape corridor (approximately 3.5-miles) serves as a template for future expansion of the multi-use trail along the Grand Canal from Tempe to Glendale. TYLIN is currently designing a concrete multi-use trail along the Grand Canal between 15th Avenue and Indian School Road (Uptown) and between Garfield Street and Van Buren Road (Gateway). Included as part of the design is a pedestrian bridge crossing, landscape and irrigation design, lighting, public art, shade structures, monumentation, way finding and numerous neighborhood connections. TYLIN has also lead a heavy public outreach effort inclusive of public design meetings, presentations to HOA's and a project website.

Riggs Road, Hawes Road to Ellsworth Road, MCDOT: Mr. Milner served as the Deputy Project Manager. Project consists of widening from rural two-lane section to urban five-lane section with storm drain system and intersection improvements. Challenges include first-flush accommodations with limited right-of-way, extensive utility relocations, and multi-agency coordination. His responsibilities included: leading design, right-of-way, and utility relocation efforts, prepared the scope and fee proposals and work plans to manage design budget and coordinated directly with client project manager on day-to-day basis.

Olive Avenue, Citrus to Cotton Lane, MCDOT: Mr. Milner is serving as the Project Engineer/Roadway Lead for the design of approximately 1.5 miles of Olive Avenue between Citrus Avenue and Cotton Lane within unincorporated Maricopa County and the City of Glendale. The project entails widening Olive Avenue from the existing 2-lane roadway to a 5-lane facility with bicycle lanes in both directions and fully improved intersections. TYLIN is also completing major irrigation relocation design, drainage

analysis and basin/channel design and developing a design for two private BNSF railroad crossings.

Riggs Road, Recker Road to Power Road, MCDOT: Mr. Milner is the Project Engineer for completing final design for the widening of Riggs Road to a 7-lane section for 1-mile between Power Road and Recker Road. Included as part of the project are the intersections of Riggs Road with Recker Road and Power Road with each intersection designed to be widened to its ultimate width (7-lane configuration) to avoid any future relocation of utilities or signal equipment.

Riggs Road, Power Road to Hawes Road, MCDOT: Mr. Milner is the Project Engineer for completing final design for the widening of Riggs Road (2+ miles) to 5-lanes throughout the project limits. Roadway design, drainage design, preliminary relocation design for various utilities and cost estimating are apart of the project.

SR 143 at Sky Harbor Boulevard, ADOT: Mr. Milner served as the Project Engineer. Project encompassed construction of three direct connection ramps to improve the ease of access to the Phoenix Sky Harbor International Airport. Challenges included construction phasing with minimum traffic impacts to 10th busiest airport in America and blending the landscaping, structural elevations, and roadway features with the area's historic aesthetics. His responsibilities included: leading the design for directional ramp serving freeway to airport movements, preparing work plans, identifying cost savings exceeding \$4M through value engineering design revisions and a 3D model of project featured in Bentley's Year in Infrastructure Publication in 2010.

Joseph Heller, PE

Mr. Heller offers over 13 years of engineering experience including roadway and bridge design. His expertise includes horizontal and vertical geometry, modeling for quantities and quality control, construction cost estimates, and roadway plan and profile.

Registrations (Civil Engineer):
Arizona (52737)

Academic Achievements:
B.S., Civil Engineering, Arizona State University, 2007

Professional Affiliations:
Member, ACEC-AZ

On-Call Bridge and Drainage Design Services,

ADOT: Mr. Heller has provided roadway and traffic engineering services under this contract. Many of these projects have included managing and preparing scoping letters, project assessment reports, construction plans, specifications, quantities and cost estimates, special provisions, other related construction documents, and bid packages. Services required for this contract also include roadway, drainage and traffic design; geotechnical investigation, testing, and design; mapping and survey; right-of-way identification; utilities investigation; environmental clearances and other general civil items. TYLIN has also been responsible for coordination with other ADOT sections/groups and outside agencies (FHWA, BLM, BIA, USFS, Corps of Engineers, local governments, etc.). Post Design Services (including attending partnering and preconstruction meetings) was also a key component on many of the task orders to assist in the construction of these projects.

County Road 3144 and 3140, ADOT: Mr. Heller was the Project Engineer for the County Route 3144 from MP 5.7 to MP 10.0 and County Route 3140 from MP 17.0 to MP 17.6 project. This project involved the rehabilitation of the existing rural collector pavement section through asphalt concrete overlay construction. Mr. Heller prepared preliminary, final and post-design services for the preparation of plans, specifications and cost estimate for the project. Services included: asphaltic concrete overlay, environmental clearance and utility coordination.

John Wayne Parkway Sidewalk Enhancement, ADOT: Mr. Heller was the Project Engineer for the SR 347 beginning at Cobblestone Farms Drive and at the SR 238 intersection project. The project included: 6-foot wide sidewalks and ADA-compliant pedestrian curb ramps and requires close coordination with ADOT, the City of Maricopa and the Green Valley Community.

Juan Sanchez Boulevard, Avenue H to Avenue F, ADOT:

Mr. Heller was the Project Engineer for the Juan Sanchez Boulevard (Avenue H to Avenue F) project involved the rehabilitation of the existing pavement structural section through pavement milling and asphalt concrete overlay construction. Mr. Heller provided preliminary and final design services for the preparation of plans, specifications and estimates.

South Navajo Drive, 7th Avenue to Sage Avenue, ADOT:

Mr. Heller was the Project Engineer for the proposed project on South Navajo Drive from 7th Avenue to Sage Avenue. Mr. Heller provided preliminary, final and post-design services for the preparation of plans, specifications and estimate for the project. Services included: milling and replacing the asphalt roadway, environmental clearance, utility coordination as required, and coordination with ADOT.

I-10/SR 303L Traffic Interchange, ADOT: Mr. Heller served as the Design Engineer responsible for the horizontal and vertical geometric design, modeling of all roadways associated with the project, structural coordination, quantities and cost estimate, and roadway typical sections. The project included the realignment of 1.65 miles of Tangerine Road (designed to its ultimate section), new interchange ramps, frontage road improvements, and several bridge structures.

I-10, New Tangerine Traffic Interchange, Westcor/ADOT/ Town of Marana:

Mr. Milner served as the Project Engineer. Project encompassed construction of three direct connection ramps to improve the ease of access to the Phoenix Sky Harbor International Airport. Challenges included construction phasing with minimum traffic impacts to 10th busiest airport in America and blending the landscaping, structural elevations, and roadway features with the area's historic aesthetics. His responsibilities included: leading the design for directional ramp serving freeway to airport movements, preparing work plans, identifying cost savings exceeding \$4M through value engineering design revisions and a 3D model of project featured in Bentley's Year in Infrastructure Publication in 2010.

Willamette River Transit Bridge, Portland, Oregon:

Mr. Heller served as the Design Engineer responsible for superstructure design and plan layout, cable geometry calculations including cable sag, coordination with approach roadway designers, approach slab design and details, MSE wall geometry, and Rebar tabulation. The Willamette River Transit Bridge is a design build project for rail and bus, 1,560-feet, 3-span cable stayed bridge passing over the Willamette River with one approach span on either side.

Lloyd Vick, PE, CFM

Mr. Vick has over 25 years of experience in hydrologic modeling and design, floodplain delineations, stormwater master planning, retention and detention basin design, storm drain design, and roadway improvement projects. He has performed as both project manager and project engineer for numerous on-call contracts giving him a diverse array of experience handling drainage issues. He has also prepared presentations and conducted public meetings for numerous flood insurance and planning studies.

Registrations (Civil Engineer):
Arizona (37890) | Nevada (21177)

(Certified Floodplain Manager):
Arizona (03382)

Academic Achievements:
B.S., Civil Engineering, Arizona State University, 1996

Professional Affiliations:
Member, ACEC-AZ | Member, AZ Floodplain Management Assoc.

Skunk Creek Levee Certification, City of Phoenix: Mr. Vick is the Project Manager evaluating an existing flood retarding embankment to determine if it meets FEMA levee certification requirements. The project includes survey, geotechnical evaluation, hydrologic and hydraulic analysis, production of improvement plans as necessary to bring the embankment up to standards, preparation of certification documentation and the development of an operations and maintenance plan for the levee.

Roma Avenue Drainage Study, City of Phoenix: Mr. Vick identified existing flooding hazards and developed conceptual alternatives to remediate flooding problems. The study encompassed the contributing watershed area which produces several feet of flooding and significant damage to houses within the adjacent subdivision. He evaluated the flooding condition, calculated the 2, 10, 25, and 100 year storm discharges impacting the site, prepared a preliminary drainage analysis, and developed alternatives and cost estimates to correct the flooding conditions.

Sky Harbor International Airport/Salt River LOMR, City of Phoenix: Mr. Vick was responsible for the preparation of a Letter of Map Revision (LOMR) for the Salt River. The Airport, as part of a Runway Safety Area improvement, designed and constructed a Concrete Stabilized Alluvium (CSA) embankment which encroaches into the existing river bed. The design was based upon a FEMA approved Conditional Letter of Map Revision (CLOMR). Project tasks included verification that the as-built conditions matched the conceptual design in the CLOMR application, the preparation of a new hydraulic model, work maps, annotated Flood Insurance Rate Maps, update of the Operation and Maintenance plans, preparation of the LOMR application and the coordination of the LOMR through FEMA.

2729 East Indian School Road Drainage Study, City of Phoenix: Mr. Vick is the Project Manager who identified existing flooding hazards in the vicinity of 2729 East Indian School Road. Following the identification of the flooding source and the extent of the flooding was identified; conceptual alternatives were developed to mitigate the problems. He prepared a drainage study encompassing the contributing watershed area which produced flooding, causing damage to structures. We evaluated the flooding condition, calculated the 2, 10, 25, and 100-year storm peak discharges impacting the site, prepared a preliminary drainage analysis, recommended alternatives to correct the

flooding conditions, and produced cost estimates for the alternative concepts.

Superstition Villa Subdivision Drainage Improvements, City of Apache Junction: Mr. Vick was the Lead Drainage Engineer who evaluated poor drainage conditions through a subdivision located in an older neighborhood. Analysis included hydrology, hydraulics of existing drainage facilities, development of improvement plans and a final drainage report.

Broadway/Delaware Drainage Improvements, City of Apache Junction: Mr. Vick was the Lead Drainage Engineer for evaluating the existing drainage conditions at the Broadway Road and Delaware Drive intersection and recommending conveyance/capacity improvements to the drainage system in the intersection. We will evaluate a potential storm drain system in Lawther Road and 10th Avenue to convey local flows to the existing channel along Delaware Drive. TYLIN is analyzing the existing channel along the west side of Delaware Drive between Broadway Avenue and 16th Avenue and, if necessary, recommend and design improvements to the channel to increase capacity and/or mitigate channel degradation and erosion. TYLIN is also preparing design plans for the modification of approximately 200' of the Superstition Mountains Community Facilities District's 12" sewer line located north/south in Delaware Drive and east/west in 10th Avenue. The proposed modifications will facilitate the design and construction of a dual 54" storm drain trunk line system in 10th Avenue that outlets into the existing drainage channel along the west side of Delaware Drive.

Delaware Drive Paving and Channel, City of Apache Junction: Mr. Vick was the Lead Drainage Engineer for preparing a Feasibility Study for modifications to the existing drainage channel along the west side of Delaware Drive to allow for roadway improvements

(installation of additional through and turn lanes at various intersections).

Riggs Road, Power Road to Hawes Road,

MCDOT: Mr. Vick was the Lead Drainage Engineer who participated in the Scoping and Design Report, along with Scoping plans and Right-of-Way Strip Maps, for the widening of Riggs Road to 5-lanes throughout the project limits. He also completed detailed hydrology for an approximately 10-square-mile watershed and performed a drainage analysis and design to pass 50-year design flows beneath the roadway and to mitigate extensive ponding within the roadway corridor. Onsite runoff is captured in local storm drains with flows passing through first flush basins prior to reaching the ultimate outfall.

Riggs Road, Power Road and Recker Road Scoping and Final Design (two separate tasks),

MCDOT: Mr. Vick was the Lead Drainage Engineer who participated in the Scoping and Design Report, along with Scoping plans and Right-of-Way Strip Maps, for the widening of Riggs Road to 7-lane section throughout the project limits. Detailed drainage analysis and design was completed to pass 50-year design flows beneath the roadway and mitigate extensive ponding within the roadway corridor. He also developed an approximately 1.1-square-mile HEC-1 model for the offsite local watershed. He will complete the final plan preparation and document the design in the final drainage report.

East Mesa Subdivisions Phase II Scoping and Final Design (two separate tasks), MCDOT:

Mr. Vick was the Lead Drainage Engineer who participated in completing the Scoping for the rehabilitation of several roadways throughout various subdivisions in east Mesa. Rehabilitation is anticipated to include detailed roadway and drainage improvements within the existing roadway prisms throughout these subdivisions. He will improve the conveyance of roadway drainage via the installation of various infrastructure. We are developing recommendations

for these improvements to provide for a 20-year life span of the pavement section and improved drainage conveyance throughout the project area.

Ahwatukee Foothills ADMS/P, FCDMC: Mr. Vick is the Project Manager for preparing a hydrologic analysis for the 30-square-mile (approximate) watershed. Work will include a detailed hydrologic and hydraulic analysis identifying locations of potential flooding hazard and close coordination with stakeholders and the public, culminating in development of alternatives to mitigate identified flooding hazards.

Wickenburg Downtown Flooding Hazard Mitigation , FCDMC:

Mr. Vick was the Project Engineer for final design services for the Sols Wash Wickenburg Downtown Flooding Hazard Mitigation including channel excavation, gabion basket bank protection, and floodwall improvements to convey the 100-year storm flows within the banks of Sols Wash to the Hassayampa River. Since the project was to be complete prior to ADOT's construction of the Highway 93 Interim Bypass embankment, the schedule for completion was critical. This project involved special coordination with the Town of Wickenburg, adjacent property owners, and ADOT.

Pinnacle Peak South ADMS/P, FCDMC: Mr. Vick was the Project Engineer responsible for the hydrologic/hydraulic analysis and report preparation for the HEC-1 portion of the study. The study phase included a combination HEC-1/FLO-2D analysis for more than approximately 43 square miles. The HEC-1 accounted for all runoff out of the McDowell Mountains and passes discharge hydrographs, to the FLO-2D model, at eight locations where large flows leave reach Reatta Pass Wash. The complete model will be used to identify and develop alternatives to maximize flood mitigation benefits.

Lower Indian Bend Wash ADMS/P, FCDMC: Mr. Vick was the Project Engineer responsible for the hydrologic/

hydraulic analysis and report preparation for the HEC-1 portion of the study. The study phase included a combination HEC-1/FLO-2D analysis for more than approximately 43 square miles. The HEC-1 accounted for all runoff out of the McDowell Mountains and passes discharge hydrographs, to the FLO-2D model, at eight locations where large flows leave reach Reatta Pass Wash. The complete model will be used to identify and develop alternatives to maximize flood mitigation benefits.

Lower Indian Bend Wash ADMS/P, FCDMC:

Mr. Vick is a Drainage Engineer involved in providing FLO-2D analysis for the ADMS, which includes approximately 100-square-miles of offsite hydrology and 16-square-miles of the detailed study area. The FLO-2D consists of three separate domains to cover the entire Indian Bend Wash watershed. This project was used in the development of the EPA SWMM/FLO-2D interface to model subsurface storm flows. TYLIN is currently working on the northern portion of the study area and is close to having a viable EPA SWMM/FLO-2D interface for the model.

Re-Delineation at 15th Avenue and Grand Canal, City of Phoenix:

Conducted a map check of the profiles for the re-delineation of existing flood hazard boundary at 15th Avenue and Grand Canal.

Grand Canal Floodplain, 59th Avenue to 63rd Avenue, City of Phoenix:

Prepared elevation certificates for the existing residential structures within the existing floodplain along the Grand Canal from 59th to 63rd Avenue in Phoenix, Arizona.

7th Avenue and Hatcher Road Storm Drain, City of Phoenix:

Designed a new 2,500-foot storm drain mainline, as well as the connection of 27 catch basin inlets. The new storm drain collects and conveys storm water from the North Mountain Preserve as well as from local urban drainage areas and discharges to the Arizona Canal Diversion Channel.

Alex Herting, PE, CFM

Mr. Herting has over 12 years of experience in hydrology and hydraulic analysis and design.

Duties include analyzing offsite watersheds, floodplain and floodway delineation, stormwater runoff, retention/detention facilities, pavement drainage systems, bridge and channel scour, bank stabilization, storm drains, drainage inlets, cross-culverts, energy dissipaters, bank protection, drainage channels, and roadside storm water basins. Capabilities include HEC-1, DDMSW, HEC-RAS, HEC GEO-RAS, ARC-GIS, Civil3D, Microstation, InRoads, Bentley Software (StormCAD, Flowmaster, Culvertmaster, etc.), HY-8 and FLO-2D software.

Registrations (Civil Engineer):
Arizona (53512)

(Certified Floodplain Manager):
Arizona

Academic Achievements:

M.S., Civil Engineering, Colorado State University, 2007

B.S., Civil Engineering, New Mexico State University, 2004

Professional Affiliations:

Member, ACEC-AZ | Member, AZ Floodplain Management Assoc.

Salt River Levee Certification, City of Phoenix:

Mr. Herting was the Drainage Engineer for the certification of approximately 5 miles of levees which channelize the Salt River between SR-143 and I-10. Project tasks

included data collection, documentation of freeboard and as-built conditions, determination of structural conditions, documentation of existing outfalls into the Salt River along with closure devices, preparation of design plans to fix damaged sections of the levee embankment, preparation of right-of-way exhibits, the creation of an Operation and Maintenance Plan for each levee, and the coordination of the levee certification application through FEMA.

Riggs Road, Power Road and Recker Road Scoping and Final Design (two separate tasks), MCDOT:

Mr. Herting was the Drainage Engineer for a Scoping and Design Report and Scoping plans, for the widening of Riggs Road to 7-lane section throughout the project limits. Detailed drainage analysis and design was completed to pass 50-year design flows beneath the roadway and mitigate extensive ponding within the roadway corridor. TYLIN also developed an approximately 1.1-square-mile HEC-1 model for the offsite local watershed. TYLIN will complete the final plan preparation and document the design in the final drainage report.

East Mesa Subdivisions Phase II Scoping and Final Design (two separate tasks), MCDOT:

Mr. Herting was the Drainage Engineer for completing scoping and final design for the rehabilitation of several roadways throughout various subdivisions in east Mesa. Rehabilitation included detailed roadway and drainage improvements within the existing roadway prisms throughout these subdivisions. He improved the conveyance of roadway drainage via the installation of various infrastructure and developed recommendations to provide for a 20-year life span of the pavement section and improved drainage conveyance throughout the project area.

Lower Indian Bend Wash ADMS/P, FCDMC:

Mr. Herting is the Drainage Engineer for providing FLO-2D analysis for the ADMS, which includes approximately 100-square-miles of offsite hydrology and 16-square-miles of the detailed study area. The FLO-2D consists of three

separate domains to cover the entire Indian Bend Wash watershed. This project was used in the development of the EPA SWMM/FLO-2D interface to model subsurface storm flows. TYLIN is currently working on the northern portion of the study area and is close to having a viable EPA SWMM/FLO-2D interface for the model.

SR 101L/Maryland Avenue HOV Lane Ramps Design-Build, ADOT:

Mr. Herting was the Drainage Engineer for the drainage design for the addition Maryland Avenue HOV Ramps along SR 101L included onsite hydrology and hydraulic calculations to ensure capture and conveyance of stormwater runoff per ADOT criteria. New catch basins were designed to capture stormwater along the HOV ramps and connect to a proposed storm drain system. The new storm drain pipes tie into existing 24-inch storm drains, which convey runoff east discharging to the existing ADOT SR 101L Channel. All existing storm drain systems have been analyzed and designed to maintain existing system capacities. At one location, an existing storm drain will be realigned around the new bridge piers while maintaining a minimum of 5-feet of clearance from the face of the piers.

Ahwatukee Foothills ADMS/P, FCDMC:

Drainage Engineer. TYLIN is nearing completion of the hydrologic and hydraulic analysis using FLO-2D for the 30 square-mile (approximate) watershed. The FLO-2D model consists of four separate domains to encompass the watershed: a 30'x30' grid offsite model and three 15'x15' grid onsite study models. The smaller grid size was chosen to better simulate flows in a highly detailed, urbanized environment. TYLIN identified 19 floodprone areas for flood hazard identification, and is working with the District and community leaders to develop mitigation alternatives. Additional work includes development of an operations & management (O&M) plan for the drainage facilities within the individual HOAs and close coordination with stakeholders (ADOT, GRIC and City of Phoenix) and the public.

Kooi-Lim Hoe, PE

Mr. Hoe has over 20 years of structural design experience that has included the preparation of all types of preliminary and final design contract documents, and critical post-design services for various urban freeway, local and rural highway projects. The core of his experience includes the analysis, design and detailing of all types of prestressed and conventionally reinforced concrete structures, substructures, foundations, walls, sign/light structures, drainage structures and other related transportation structures. Mr. Hoe's attention to detail, quality and client service has exceeded the expectations of even the most demanding clients including state DOT's, municipalities and private developers.

Registrations (Civil Engineer):
Arizona (37060) | California (64292)

Academic Achievements:
M.S., Civil Engineering, University of Arizona
1998

B.S. Civil Engineering University of Arizona,
1996

Professional Affiliations:
Member, ASCE

Beardsley Bridge Over New River, City of Peoria: Mr. Hoe served as the Project Manager/Design Engineer responsible for the design of this 3-span I-girder bridge, coordinating with stakeholder agencies and performing cost estimates. Mr. Hoe also served as the Post Design Services Manager responsible for technical oversight

and review of construction documents and shop drawings. This is a unique bridge that is equipped with aesthetically pleasing architectural custom barriers and overhangs. The project is currently under construction.

Honeycutt Bridge over Santa Cruz Wash, City of Maricopa: As the Construction Services Manager/Inspector, Mr. Hoe was responsible for the oversight of a 3-span prestressed box beam bridge. This included providing structural advice to the contractor and performing inspection at the construction site. A construction report was delivered at the end of the project.

South Mountain (City of Mesa) and South Meridian, MCDOT: Mr. Hoe served as the Project Manager/Design Engineer responsible for the design of two bridges and construction inspection services. He also coordinated with the City of Mesa and MCDOT, as well as additional stakeholders. The bridges span across the Maricopa Flood Control Canal.

Prescott Valley Drainage Structures, Prescott, Arizona: Mr. Hoe served as Design Engineer for an Energy Dissipator and U-shaped channel. His responsibilities included design calculations, structure layout, plans preparation and cost estimates.

Germman Road and Pecos Road, Gilbert, Arizona: Mr. Hoe served as Project Engineer for the development of bridge selection report, final design, plans, quantities and cost estimate for two AASHTO I-girder bridges. He also served as Assistant Project Manager for post design services responsible for reviewing shop drawings, cost estimation and RFIs.

Festival Ranch Bridge crossing the CAP Canal, City of Buckeye: Bridge Design Engineer for a 3-span precast prestressed girder over the CAP canal. The design has openings for the maintenance roads on both sides of the canal. This project was delivered on time and within budget.

Cooper Road and Gilbert Road, Gilbert, Arizona: Mr. Hoe served as the Project Engineer for the development of selection report, final design, plans, quantities and cost estimates for a 2-span post-tension box girder bridge.

I-15, Virgin River Bridge No. 7, ADOT Flagstaff District: Design Engineer for two new plate girders for the open median between the two NB and SB existing bridges. The new steel girders connected the side-by-side bridges together, providing a redundant girder system to a previous non-redundant system that was load posted.

I-10/SR 303L Traffic Interchange, ADOT: Mr. Hoe was the Project Engineer/Designer for the Sarival Avenue TIOP bridge and Thomas Road TIUP bridge (conforming to the LRFD Design Code). He provided coordination with the prime consultant and ADOT, stakeholder agencies and other consultants. Sarival TIOP bridge is a 3-span Type V I-girder bridge and Thomas Road TIUP is a 2-span cast-in-place post-tension box girder bridge. Sarival Avenue TIOP Bridge Estimated Cost - \$5.8M; Thomas Rd TIUP Bridge

SR 303L, Segment 3A, ADOT: Mr. Hoe was the Project Engineer/Designer of the layout for both the Cactus Road TIUP and Waddell Road TIUP at the beginning of the design phase. He checked and verified structure calculations and quantities for these two bridges.

Lone Pine Dam Bridge, Navajo County: Mr. Hoe served as the Project Manager/Design Engineer responsible for the design of this 3-span I-girder hybrid bridge, coordinating with stakeholder agencies and performing cost estimates. He also served as the Post Design Service Manager responsible for technical oversight and review of construction documents and shop drawings. The 445-ft bridge was comprised of post-tension I-girders and cast in place pier tables. It is currently under construction and using a segmental construction method.

Chian-Lee Meng, SE

Mr. Meng has over 32 years experience in structural design and value engineering. Mr. Meng is responsible for structural analysis and design including layout, calculations, details, specifications, and final contract drawings. He has designed precast, prestressed concrete bridge elements, substructures, deep and shallow foundations, structural steel, masonry and concrete retaining/sound walls and scour retrofit details. He has developed design documents ranging from Bridge Selection Reports, SLs and PAs to PS&E documents for projects involving miles of walls and fast-track bridge design projects. He also has extensive building design experience, including steel-framed, concrete, and timber structures.

Registrations (Structural Engineer):
Arizona (#21834) | Utah (#274416)

Registrations (Civil Engineer):
Arizona (#21834) | Utah (#274416)

Academic Achievements:
M.S., Civil Engineering, Arizona State University 1982

B.S., Hydraulic Engineering National Cheng Kung University (Taiwan) 1978

Feasibility Study for Solar Panel Installation on Existing Parking Shade Structures (City of Avondale):

Project Manager/Lead Structural Engineer for a structural analysis of the existing parking shade canopies located on the City Municipal Campus adjacent to the City

Library, Court and Police Buildings. The analysis was conducted to determine the feasibility of installing solar panels on the roofs of each structure and included retrofit recommendations to various components of the structures to support the additional loading.

On-Call Bridge and Drainage Design Services,

ADOT: Project Manager for the past 15 years, including over 35 projects for ADOT under this contract. Many of these projects have included managing and preparing scoping letters, project assessment reports, construction plans, specifications, quantities and cost estimates, special provisions, other related construction documents, and bid packages. Services required for this contract also include roadway, drainage and traffic design; geotechnical investigation, testing, and design; mapping and survey; right-of-way identification; utilities investigation; environmental clearances and other general civil items. TYLIN has also been responsible for coordination with other ADOT sections/groups and outside agencies (FHWA, BLM, BIA, USFS, Corps of Engineers, local governments, etc.). Post Design Services (including attending partnering and preconstruction meetings) was also a key component on many of the task orders to assist in the construction of these projects.

US 163, Laguna Wash Bridge Pedestrian Bridge, ADOT:

Project Manager to construct a new pedestrian bridge on the west side of the existing Laguna Wash Bridge. The addition of this pedestrian bridge would provide a safe pedestrian path crossing the Laguna Wash. This Initial Bridge Study presents the engineering evaluation for determining the most cost effective and functional bridge type for the Laguna Wash Pedestrian Bridge. Upon completion of this study, TYLIN commenced with final design of the new pedestrian crossing.

I-17 Screen Walls, ADOT: Project Manager for design services for 3 miles of 5' high screen walls along northbound I-17 between 7th Street and 19th Avenue. The walls were designed to reduce the visual impact of the freeway on

the adjacent residential neighborhoods. The screen wall was supported on a 6' wide by 2' deep footing and was also designed to serve as a traffic barrier to resist potential vehicular impact force. Steel-framed light weight screen wall panels were attached to the outside of the concrete bridge barrier on the 3rd Street Railroad OP, Central Avenue OP, 7th Avenue Traffic Interchange OP, 11th Avenue Railroad OP, 15th Avenue OP, and 19th Avenue Traffic Interchange OP. Special 6" thick by 5' tall concrete panels were attached to the outside of roadway transition barrier at each end of the bridges where the barrier height varied.

Western Canal Multi-Use Path, City of Tempe:

Structural Engineer, as a subconsultant, for conceptual design, construction documents, and post-design services for the Western Canal Multi-Use Path. This 5.5-mile long, \$10.5M urban trail segment provides critical connection to community destination areas within Tempe and provides a key regional connection within the Phoenix metropolitan area. The path parallels Salt River Project's (SRP) Western Canal and connects to existing residential areas, several neighborhood parks, the Ken McDonald Golf Course, Kiwanis Regional Park, and several commercial areas. The path crosses nearly the full width of the City. The path was designed to allow for SRP maintenance access along the canal and to overhead transmission lines. Gentle sweeping curves in the trail alignment accommodate these maintenance demands and also provide a safe, convenient, and interesting route for the public bicycle commuters and the casual path users. TYLIN's part of the project included final design of the barrier fences, boulder walls and gong dong.

T.Y. LIN INTERNATIONAL

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JUNE 27, 2018

TYLIN INTERNATIONAL

EXHIBIT B
TO
PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF AVONDALE
AND
T.Y. LIN INTERNATIONAL, INC.

[Scope of Work and Fee Proposal]

See following pages.

January 3, 2019

Ms. Elisabeth Kahn, P.E.
Engineering Project Manager
City of Avondale Development and Engineering Services
11465 W. Civic Center Drive
Avondale, AZ 85323

Subject: Proposal for Final Design of El Mirage Road and Buckeye Road (MC-85) Right Turn Lane
City of Avondale Project No. TBD

Dear Ms. Kahn:

TY Lin International (Consultant) is pleased to present this proposal to provide final design services for a northbound dedicated right turn lane at the intersection of El Mirage Road and Buckeye Road (MC-85). Included as part of these services is the completion of detailed utility coordination, project management and coordination, a drainage evaluation and memorandum, field survey (by CRS, Inc), traffic signal design (by Y2K Engineering, LLC) and final construction document preparation (plans, specifications and estimates). Detailed description for all tasks anticipated to be completed by Consultant is contained in the following.

Tasks

Task 1 - Project Management & Coordination

Consultant shall provide project management services for performance of the design contract and shall include administrative elements required to complete the project design, including but not limited to: coordination with the City, progress reporting, invoicing, quality control and other administrative functions. The following is a list of activities that will be performed as part of this task:

Project Schedule: Consultant shall update the project schedule on a monthly basis for the duration of the project. The schedule shall include project meetings, project deliverables and major milestones.

Invoicing and Progress Reports: Consultant shall prepare monthly invoices and progress reports showing the percent complete for all project tasks and other direct expenses related to the project and a description of activities completed during the invoice period.

Project Coordination: Consultant shall coordinate with the City, and other stakeholders as required to retrieve and share project information throughout the project. Primary efforts anticipated to be completed during this task are regular communication with City Project Manager.

Project management and coordination hours are assumed for the design duration (6 months).

Task 2 - Utility Information, Coordination & Clearance

Utility coordination is anticipated to be required with several utility companies for the project to verify existing facility mapping throughout the project limits. Based on the review of the MC-85 Sidewalk

Connection at El Mirage Road, it is anticipated that the proposed improvements may result in utility conflicts with the existing facilities. Utility coordination will be required with utility companies located throughout the project. As part of this task, Consultant shall identify all utility owners within the project limits. The Consultant shall coordinate with utility owners in conjunction with the City's Project Manager. The following are anticipated tasks are associated with these efforts:

Utility Coordination Meetings

Consultant shall assist the City's Project Manager in arranging/conducting utility coordination meetings to facilitate identification and resolution of utility conflicts throughout the project. The Consultant shall be responsible for preparing any exhibits that would be required for the meeting. For budgetary purposes, a total of two (2) utility meetings are anticipated as part of this task.

Utility Conflicts

Consultant shall identify potential conflicts between the existing utilities and the proposed project improvements. Consultant shall coordinate with the utility companies to mitigate conflicts. If feasible, Consultant shall adjust proposed improvements to avoid utility conflicts without jeopardizing the project's purpose and goals.

Provide Information to Utility Companies

Consultant shall provide CAD files in AutoCAD format and project plans in PDF format to utility companies upon request.

Utility Relocation

Where utility relocations are required, the City's Project Manager shall work with the utility companies to determine if the relocation of the facilities are to be included as part of the project (by the City's contractor) or prior to construction. Where the utility relocation is to be included as part of the project, Consultant shall coordinate design details and develop construction costs associated with the relocation work. Construction costs for any new utilities shall be included in the final cost estimate and bid schedule prepared for the project.

Review of Utility Relocation Design Plans

The City's Project Manager and Consultant shall review all utility relocation plans to ensure compatibility with the proposed design plans. If the utility relocation work is to be performed by the utility companies prior to the construction of the City's project, Consultant shall include the proposed alignment of the relocated facility in the final construction plans.

In conjunction with the 90% PS&E submittal for the project, Consultant shall prepare utility clearance letters and send letters to all utility owners with facilities within the project limits for utility owner concurrence with the proposed project design ("No Conflict" Letters). Upon receipt of utility owner concurrence, Consultant shall compile a Master Utility Clearance Letter to be provided to the City in conjunction with the Final Sealed PS&E.

Task 3 – Site Visit / Data Acquisition

A site visit will be conducted by the Consultant and City staff (if desired) to identify key areas of concern and engineering challenges that might have an impact on the project design. The site visit will familiarize us with the following:

- General topography
- Existing utilities
- General drainage conditions
- Existing features such as gates, fences, walls, structures, access locations, etc.
- Other site features not shown on as-built maps and/or aerial mapping;
- Existing improvements recently constructed as part of the MC-85 Sidewalk Connection at El Mirage Road (Maricopa County Project No. MGN10)

As part of this task, Consultant shall obtain any available as as-built maps from the City. It is assumed that the City will provide quarter section maps for existing right-of-way, storm drain, sewer and water near the project area as well as for any other utilities within the project limits.

Task 4 – Drainage Memorandum

Consultant shall prepare a project drainage memorandum in accordance with the criteria outlined in the City's Final Drainage Report section from the City's General Engineering Requirements Manual (2018). The project design is not anticipated to modify the existing drainage patterns for off-site flows reaching the intersection of El Mirage Road and Buckeye Road (MC-85). Off-site hydrology and hydraulics analysis of the project area is specifically excluded from this scope of work.

On-site flows will be determined for the eastern side of El Mirage Road (along the proposed roadway improvements) and measures for capture, conveyance and discharge of on-site flows will be designed and described in the Drainage Memorandum. At a minimum, the Drainage Memorandum will include the following discussion items:

- Project location and description;
- Project topography and discussion of existing and proposed conditions and drainage issues related to the site;
- Flood Insurance Rate Map (FIRM) for the project site;
- Onsite hydrology;
- Hydraulic calculations;
- Hydrology maps and drainage exhibits/diagrams;
- Summary of findings and conclusions.

The Preliminary Drainage Memorandum will be submitted in conjunction with the 30% PS&E. Upon receipt of City comments, a Final sealed Drainage Memorandum will be submitted with the Final PS&E.

Task 5 – Field Topographic Survey

TYLIN Sub-consultant, CRS, Inc. will complete topographic design survey of the project area. The work limits shall begin approximately 650-ft south of the El Mirage Road and Buckeye Road (MC-85) intersection and extend approximately 500-ft east and west along Buckeye Road (MC-85).

A detailed scope of work can be found on our Sub-consultant's proposal (CRS, Inc) which is attached to this document.

Task 6 – Traffic Signal Design

TYLIN Sub-consultant, Y2K Engineering, LLC will provide design and engineering services for the relocation of existing traffic signal equipment at the southeast corner of the El Mirage Road and Buckeye Road (MC-85) intersection.

A detailed scope of work can be found on our Sub-consultant's proposal (Y2K Engineering, LLC) which is attached to this document.

Task 7 - 30% Plans & Cost Estimate

Consultant shall prepare a base map depicting all existing features and utilities. The proposed grade and alignment for major design elements shall be shown in sufficient detail to show all conflicts with existing facilities and that feasible solutions exist for all conflicts.

The plans shall include all existing topography, underground utilities, existing right of way and the recommended grade and alignment. Preliminary drainage design information shall be included to show how roadway drainage and retention will be handled.

As part of this submittal, the following plan sheets will be provided to a preliminary (30%) completion level (anticipated number of sheets shown in parenthesis):

- Cover Sheet (1)
- General Note Sheet (1)
- Key Map Sheet (1)
- Geometric Control Sheet (1)
- Typical Section Sheets (1)
- Quantity Summary Sheets (1)
- Improvement Plan and Profile Sheets (2)
- Traffic Signal Sheets (2) – *by TY Lin Sub-consultant Y2K Engineering, LLC*

In total, it is anticipated that ten (10) plan sheets will be submitted as part of this task.

Consultant shall utilize MAG Standard details in designing the improvements for this project unless otherwise directed by the City.

Consultant shall also prepare a 30% bid schedule and opinion of probable cost for the proposed improvements. A 25% contingency will be utilized at this stage in the project's development to account for unknown construction items. The project bid schedule will contain the MAG standard bid items, and associated quantities, for the City to use in advertising/bidding the project. The

opinion of probable cost will contain unit pricing based on recently bid projects in the area as well as historical pricing available from the Consultant's representative project database.

Task 8 - 90% Plans, Specifications & Cost Estimate

Consultant shall prepare 90% plans showing all design features after the Consultant has properly addressed all City and stakeholder provided comments, corrections and requested changes to the 30% submittal. Detailed construction notes for all project construction items shall be shown on the plans.

In addition to the plans developed during the 30% submittal for the project, the following additional plan sheets will be developed as part of this task:

- Detail Sheets (2)
- Drainage Improvements Sheets (2)
- Signing and Striping Sheets (2)
- Sign Summary Table Sheet (1)

In total, seven (7) new sheets will be created as part of this task, making the total anticipated number of sheets for the project to be 17. Specifically excluded from this scope of work are the preparation of any Construction Sequencing Plans and Traffic Control Plans. If so requested by the City, Consultant can prepare an amendment to the contract to complete either of these plan types.

Project cross sections shall also be completed for proposed roadway improvements at this stage in the project's development. Cross sections will be annotated with centerline, right-of-way and any easement limit as well as roadway cross slope and grades proposed to daylight into the adjacent topography.

Consultant shall also prepare technical specifications necessary for bidding and advertising of the project for any bid items differing from MAG standard construction and measurement standards. Technical specifications shall be prepared in a format acceptable to the City for easy incorporation into the City's boiler plate advertisement for construction projects.

Finally, as part of this task Consultant shall also update the Opinion of Probable Cost to a 90% stage to include any new bid items introduced between the 30% and 90% plan submittal stages. At this stage in the project's development, a 10% contingency will be utilized to account for any unknown bid items.

Task 9 - 100% Plans, Specifications & Cost Estimate

Consultant shall revise the 90% PS&E to address all review comments provided by the City. For this submittal, all utility relocations shall be resolved and shown on the plans. Any necessary right-of-way and/or easements shall be acquired soon after this submittal. Revised roadway cross-sections at 50-foot spacing shall also be provided. An estimate of the earthwork shall be provided based on the triangulation method.

Task 10 - Final PS&E-Signed & Sealed

Consultant shall revise the 100% PS&E to address all review comments provided by the City. Upon

completion of 100% PS&E revisions, Consultant shall provide the City with final, sealed PS&E construction documents for the project.

Allowances

Task 11 – Reimbursables

For budgetary purposes, an allowance of \$1,500 has been included for reimbursable items such as copies, mylars, mileage, mail and delivery services. All reimbursable items shall be invoiced by the Consultant to the City at direct cost. Cost data (backup) will be included with the appropriate invoices.

Exclusions

The following tasks are excluded from this scope of work. If so requested by the City, Consultant can provide a contract amendment proposal to provide any of these services.

- Geotechnical Engineering
- Environmental Clearances
- Street Lighting Design
- Potholing
- Public Involvement
- Landscaping and Irrigation Design
- Storm Water Pollution Prevention Plans
- Construction Sequencing Sheets
- Traffic Control Sheets
- Post Design Services
- Coordination with UPRR

Assumptions

The following assumptions were made during the preparation of this scope of work:

- The City will lead all efforts to obtain the necessary right-of-way throughout the project limits (TY Lin Sub-consultant CRS Inc. will prepare up to one legal description and exhibit for this project).

Submittals

Consultant shall submit the following documents as part of this contract:

30% Plans & Estimate

- Five (5) copies of half size 11"x17" plans
- One (1) copy of full size (24"x36") plans
- Two (2) copies of 30% Opinion of Probable Cost
- PDF of plans (scaled for 11"x17")

90% PS&E

- Five (5) copies of half-size 11"x17" plans
- One (1) copy of the full size (24"x36") plans
- Two (2) copies of 60% Opinion of Probable Cost
- Two (2) copies of Technical Specifications
- One (1) Response to 30% Comment Form/Plans & Estimate
- PDF of plans (scaled for 11"x17")

100% PS&E

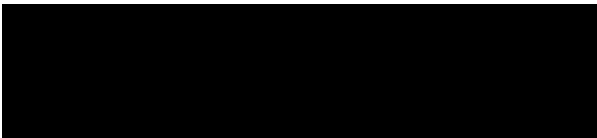
- Five (5) copies of sealed half-size 11"x17" plans
- One (1) copy of the full size (24"x36") plans (including mylar cover sheet if requested)
- Two (2) copies of Sealed Opinion of Probable Cost
- Two (2) copies of Sealed Technical Specifications
- One (1) Response to 90% Comment Form/PS&E
- PDF of Sealed plans (scaled for 11"x17" & 24"x36")

Final PS&E

- Five (5) copies of sealed half-size 11"x17" plans
- One (1) copy of the full size (24"x36") plans (including mylar cover sheet if requested)
- Two (2) copies of Sealed Opinion of Probable Cost
- Two (2) copies of Sealed Technical Specifications
- One (1) Response to 100% Comment Form/PS&E
- PDF of Sealed plans (scaled for 11"x17" & 24"x36")

The total professional fee requested for the completion of these tasks is \$77,680.96 (See attached Exhibit 'A' - Compensation). Should you have any questions and/or require additional information, please contact me.

Sincerely,



Carlos Sanchez Soria, P.E.
Senior Associate/Project Manager

Cc: James Barr, P.E.

TYLIN INTERNATIONAL EXHIBIT A - COMPENSATION CITY OF AVONDALE PROJECT NO. TBD FINAL DESIGN OF EL MIRAGE ROAD AND BUCKEYE ROAD (MC-85) RIGHT TURN LANE														18-Dec-18
TASK	DESCRIPTION	PROJECT MANAGER \$65.00		PROJECT ENGINEER \$50.00		DESIGN ENGINEER \$38.00		SUBCONSULTANT/ VENDOR	TOTAL HOURS	TOTAL DIRECT RATE	OVERHEAD 153.97%	FEE 10%	TYLI TOTAL	TOTAL FEE
		Hours	\$	Hours	\$	Hours	\$	\$		\$	\$	\$	\$	\$
	BASIC SERVICES													
1	Project Management and Coordination	24	\$1,560.00	16	\$800.00				40	\$2,360.00	\$3,633.69	\$599.37	\$6,593.06	\$6,593.06
2	Utility Information, Coordination & Clearance	8	\$520.00	12	\$600.00	20	\$760.00		40	\$1,880.00	\$2,894.64	\$477.46	\$5,252.10	\$5,252.10
3	Site Visit / Data Acquisition	2	\$130.00	6	\$300.00	8	\$304.00		16	\$734.00	\$1,130.14	\$186.41	\$2,050.55	\$2,050.55
4	Drainage Memorandum	2	\$130.00	24	\$1,200.00	24	\$912.00		50	\$2,242.00	\$3,452.01	\$569.40	\$6,263.41	\$6,263.41
5	Field Topographic Survey	2	\$130.00			12	\$456.00	\$5,910.00	14	\$586.00	\$902.26	\$148.83	\$1,637.09	\$7,547.09
6	Traffic Signal Design	4	\$260.00			6	\$228.00	\$9,955.62	10	\$488.00	\$751.37	\$123.94	\$1,363.31	\$11,318.93
7	30% Plans and Cost Estimate	4	\$260.00	24	\$1,200.00	60	\$2,280.00		88	\$3,740.00	\$5,758.48	\$949.85	\$10,448.33	\$10,448.33
8	90% Plans, Specifications and Cost Estimate	8	\$520.00	40	\$2,000.00	100	\$3,800.00		148	\$6,320.00	\$9,730.90	\$1,605.09	\$17,655.99	\$17,655.99
9	100% Plans, Specifications and Cost Estimate	6	\$390.00	16	\$800.00	24	\$912.00		46	\$2,102.00	\$3,236.45	\$533.84	\$5,872.29	\$5,872.29
10	Final PS&E - Signed and Sealed	2	\$130.00	8	\$400.00	16	\$608.00		26	\$1,138.00	\$1,752.18	\$289.02	\$3,179.20	\$3,179.20
SUBTOTAL BASIC SERVICES		62	\$4,030.00	146	\$7,300.00	270	\$10,260.00	\$15,865.62	478	\$21,590.00	\$33,242.12	\$5,483.21	\$60,315.34	\$76,180.96
	ALLOWANCES													
11	Reimbursables	\$1,500.00												
SUBTOTAL ALLOWANCES													\$1,500.00	\$1,500.00
GRAND TOTAL		62	\$4,030.00	146	\$7,300.00	270	\$10,260.00	\$15,865.62	478	\$21,590.00	\$33,242.12	\$5,483.21	\$61,815.34	\$77,680.96



CONSULTANT REGISTERED SURVEYING INC.
CARL SITTERLEY, R.L.S.

MAILING ADDRESS: 3370 N. Hayden, Suite #123, **P.M.B. 567**
Scottsdale, Arizona 85251

OFFICE ADDRESS: 8732 E. Piccadilly Rd.
Scottsdale, Arizona 85251

PHONE: (480) 620-1382

E-mail:
CSITTERLEY-CRS@COX.NET

October 10, 2018

Attn: Carlos Sanchez Soria, P.E.
T Y LIN INTERNATIONAL
60 E. Rio Salado Parkway, Suite 501
Tempe, Arizona, 85281

RE: Land Survey Services, Maricopa County, City of Avondale: Project no. _____
Topographic and Control Survey, control tied to Avondale horizontal and vertical datum,
Sectional control based on GDACS Plat MCR book 694, page 38.
El Mirage Road intersection with Buckeye Road (MC85).

Thank you for this continued opportunity to be of service to T.Y. LIN INTERNATIONAL; and
continued opportunity to be of service to the City of Avondale.

The purpose of your project is to complete design of improvements per the alignment area
described on the provided aerial exhibit included with e-mail request Oct. 8th.

CRS will complete topographic observations sufficient to complete a competent Digital Terrain Model (DTM), addressing any grade breaks and drainage conditions, road tie-in locations and other terrain conditions. Ground and paving observations will be observed on at least 50' station intervals or less as needed. CRS will make observations on walks, signs, all larger landscape vegetation, roadway striping, dirt road access intersections, utility improvements, drainage/irrigation improvements, and utility bluestake as may be visible. Topo-observations do NOT include invert elevation observations on sanitary and storm drain improvements or for any water valve nut elevations. Further, invert elevations on secured SRP irrigation facilities will NOT be observed and designer should consult SRP/RID as-builts and reference top of structure or man-hole rim elevations. Exposed irrigation pipe invert elevations at headwalls will be observed if water levels allow access. Utility as-built maps, if provided to CRS, will be used to further evaluate and interpret field observed underground utility facilities. Lateral limits of the topographic observations vary with details contained within the attached aerial. Further lateral limits will be extended to open access areas of drive/roadways and to open undeveloped areas of concern. CRS will make vertical observations on overhead wire lines that may affect traffic.

The DTM, and all linework and point data will be processed in Land Development Desk Top 2007. CRS will provide an Autodesk 2007 format 3D line and symbols file, an Autodesk 2007 format TIN lines, contours, and DTM border CAD file, and an ASCII point file (coma delimited with point number, northing, easting, elevation, and description). The CAD layers will be completed to CRS common layers in Autodesk. CRS does not use any kind of agency standard CAD layering, symbols or point descriptions. CAD Project will be completed at a general scale of 1" = 40' unless designer requests otherwise.

(continued page 2)

CRS will complete the project survey observations in the vertical (NAVD88) and horizontal ground control based on observing sufficient published City of Avondale control monuments and by referencing the GDACS and Maricopa County survey monuments as indicated on the GDACS plat MCR book 694, page 38 (Sec. 13 and 14 T1N, R1W). Additional local site surveying control monuments will be set or existing street centerline monuments located at/along the site to allow designer sufficient reference on the design plans for future construction surveying control.

CRS will use recorded subdivision plats and surveys to attempt to recover street and sectional monuments along the site route. However, this scope of services does not include any kind of boundary survey, and it is assumed that any found street or sectional surveying monuments are already of record. Base mapping and road rights of way limits to be determined/established based on plat and title report documents. The assumption is that the City of Avondale will be providing CRS with needed title reports for the right of way base mapping. CRS has used the Assessor website to determine this project will require approximately 2 parcel ownership title reports. CRS is not responsible for the schedule of obtaining title reports from the title insurance company and will process the title reports upon receipt in a timely manner. Generally, CRS assigns 2 hours for review of the deed and schedule B items found in the title reports. Please note that a recent Title report request for an Avondale parcel was at a title company cost of \$560.00. The City of Avondale can anticipate 2 parcel title reports being approximately \$1,200.00.

CRS has not been requested to provide one legal description with exhibit for either new road rights of way or an easement. CRS invoices a fixed-rate of \$660.00 per legal description not involved with SRP or USA.

As stated, land surveying plats and recorded surveys will be used to plot parcel data in CAD and provide base mapping referenced to the sectional data derived from the above stated GDACS plats. In addition, CRS will use provided Title Reports for up to 2 *parcels* to review and insert/label the plotable-referenced schedule B items into CAD for additional base mapping reference.

CRS will provide a survey package with CAD files, ASCII point files, and DTM “.xml” data base files. The survey package will include rough plots sealed for the topographic survey representation of the 3D lines and symbols in the CAD file, including the developed 0.2’ contour lines. CRS will seal a point listing sheets that indicate the ASCII point files provided. CRS will provide a survey report that provides information for any additional horizontal and vertical control points found or set.

(continued page 3)

CRS estimate:

1. Field Control-survey 1-man field crew, 8 hours at \$105 per hour = \$840.00.
2. Field Topo-survey 1-man field crew, 20 hours at \$105 per hour = \$2,100.00.
3. Office Process Control-survey, research records existing subdivison plats/surveys into CAD project datum and plot in CAD, complete report of survey 6 hours at \$105 per hour = \$630.00.
4. Office Process Topo-survey, complete DTM for site, and provide survey package 12 hours at \$105 per hour = \$1,260.00.
5. Office Process up to 2 title report schedule "B" items estimate at 2 hrs. per report = \$420.00.
6. Legal description with exhibit = \$660.00.

CRS can complete this project scope of services for a not-to-exceed fee of **\$5,910.00.**

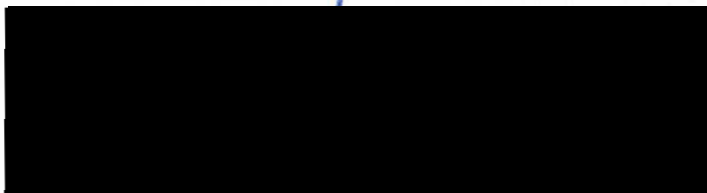
Daily reports will be provided.

CRS is fully insured and will provide insurance certificates upon request. CRS can schedule the approved surveying services with a signature below.

Please attach and reference this proposal to any contract documents.

Submitted,
CONSULTANT REGISTERED SURVEYING

Accepted,
TY LIN INTERNATIONAL



Carl Sitterley, RLS
President

Name: _____

Title: _____

Aerial Map attached for reference.



Map





October 10, 2018

Carlos Sanchez-Soria, PE
Senior Associate – Project Manager
T.Y. Lin International
60 E. Rio Salado Pkwy #501
Tempe, AZ 85281

Phone: (480) 968-8814

Email: carlos.sanchez-soria@tylin.com

**Subject: PROPOSAL FOR TRAFFIC ENGINEERING SERVICES
EL MIRAGE ROAD & BUCKEYE ROAD (MC-85) – TRAFFIC SIGNAL DESIGN**

Dear Mr. Sanchez-Soria:

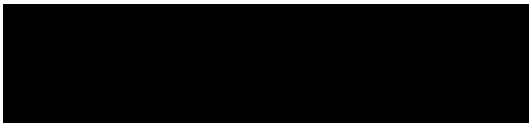
Y2K Engineering, LLC. appreciates the opportunity to submit our proposal for design services for the City of Avondale roadway improvement project at the intersection of El Mirage Road & Buckeye Road. Our fee to provide services is based on discussions with you and the scope of work enclosed.

We look forward to the successful project and establishing our professional relationship with T.Y. Lin International (T.Y. Lin).

If you have any questions or need additional information, please contact me at (602) 380-8686.

Sincerely,

Y2K Engineering, LLC.



Chris Williams, PE, PTOE
Senior Traffic Engineer

Exhibit A: Scope of Work

cc: PFile



1921 S. Alma School Rd, Ste 110 \ Mesa, AZ 85210



480.696.1701



info@y2keng.com



EXHIBIT A – SCOPE OF WORK (SOW)

Y2K Engineering, LLC. shall herein be referred to as the **Designer** and **T.Y. Lin International** shall herein be referred to as **Prime**.

1. Purpose and Objective:

The City of Avondale is seeking a qualified consultant to provide design and engineering services for a new northbound right turn lane at the intersection of El Mirage Road & Buckeye Road (MC-85). This project involves miscellaneous improvements consisting of roadway widening, traffic signals relocation, curb, ADA ramps and potentially utility relocation. The City has selected T.Y. Lin for this design which will be limited to the southeast corner of the intersection of El Mirage Road/Buckeye Road. Traffic design plans will conform to City of Avondale CAD and plan sheet layout standards and as such will be completed in AutoCAD.

2. Project Tasks

Task 1 – Site Reconnaissance / Data Collection

This task involves field work and data collection efforts needed to establish CAD base files.

1.1 Site Visit

The Designer will visit the project site and collect data to include existing lane configurations and traffic control devices within the project area. The goal of this data collection effort is to obtain an understanding of existing conditions, including underground/overhead utilities, and observe how the proposed improvements will interact with the existing environment.

1.2 Data Collection

Designer will review relevant as-built information as provided by the Prime and the City of Avondale. It is assumed that the City will provide as-built drawings of the existing traffic signal within the project limits.

1.3 Base Plans Preparation

Prime shall obtain topographic survey of the project area and prepare base plans in electronic format of the project corridor including roadway geometrics, existing roadway signing, existing pavement marking, edge of pavement, existing structures (e.g. drainage features) and existing utilities. General survey tasks will include establishing horizontal and vertical control for the existing alignments and preparing a topographic and right-of-way base map. The survey limits will encompass everything within the existing right of way and extend a minimum of 300 feet east and west of El Mirage Road. Designer will take the surveyed bases file and convert relevant information to City approved base file layers.



Task 2 – Traffic Signal Modification Design

2.1 Traffic Signal Design

This task is to develop traffic signal modification plans at the intersection of El Mirage Road/Buckeye Road. Designer will prepare plan sheets meeting City of Avondale CAD standards. The traffic signal plans showing the location and layout of the proposed traffic signal control equipment at the intersection will include the proposed traffic signal pole locations, signal heads, vehicle detection, pre-emption equipment, pole and conductor information, crosswalk striping, and associated underground equipment. The traffic signal plan view sheets will be laid out at 1:20 scale. No traffic signal interconnect design will be completed.

The traffic signal plan set will include the following sheets:

- Traffic Signal Plan, Phasing Schematic – 1 sheet
- Pole and Conductor Schedule – 1 sheet

Total Traffic Signal Sheets: 2 Sheets

2.2 Estimate / Special Provisions

Designer will prepare estimates and special provisions for the 30%, 90%, 100% and final/sealed traffic signal design. Designer will work collaboratively with the Prime to match document styles with regard to electronic file development.

2.3 Comment Resolution

Comments provided by the City and any other design team members will be compiled after the 30%, 90% and 100% submittals. A comment matrix will be prepared by the Prime and the Designer will provide responses pertaining to this scope of services to be discussed during a comment resolution meeting.

2.4 Quality Assurance / Quality Control (QA/QC)

Designer will QA/QC each discipline before any submittal to the City of Avondale. The Designer will follow the internal procedures established by the Design firm.

2.5 Overhead Clearance – SRP Coordination

Using survey data provided by the Prime detailing the SRP overhead power pole locations (on the south side of Buckeye Road) the Designer will calculate the projected horizontal and vertical clearances between new traffic signal poles and existing power lines within the project limits. Designer will prepare graphics for submittal to SRP that summarize the methodology used to determine horizontal and vertical offsets to the existing power lines in critical areas where new poles are designed.



Task 3 – Meetings

3.1 Project Kick-Off Meeting

Prime will conduct a project kick-off meeting with City staff and key stakeholders identified by the City. The meeting will discuss the project scope, goals, concerns, opportunities, deliverables and schedule.

3.2 Comment Resolution/Project Meetings

Designer will support Prime and City staff at comment resolution and general project meetings. The following meetings are assumed:

- Project kick-off meeting – (1)
- Comment resolution meetings (90% and 100%) – (2)

Deliverables

The following items will be delivered to the Prime:

30% Plans

- 1 electronic plan set in portable document format (PDF)
- 1 Plan Sheet (Plan View Sheet)
- 1 electronic copy of the Opinion of Probable Cost in Microsoft (MS) Excel format

90% Plans

- 1 electronic plan set in portable document format (PDF)
- 2 Plan Sheets (includes Notes, Plans, and Detail Sheets)
- 1 electronic copy of the Opinion of Probable Cost in Microsoft (MS) Excel format
- 1 electronic copy of Special Provisions in MS Word format

100% Plans

- 1 electronic plan set in portable document format (PDF)
- 2 Plan Sheets (includes Notes, Plans, and Detail Sheets)
- 1 electronic copy of the Opinion of Probable Cost in Microsoft (MS) Excel format
- 1 electronic copy of Special Provisions in MS Word format

Final (Sealed)

- 1 electronic plan set in portable document format (PDF)
- 2 Plan Sheets (includes Notes, Plans, and Detail Sheets)
- 1 electronic copy of the Opinion of Probable Cost in Microsoft (MS) Excel format
- 1 electronic copy of Special Provisions in MS Word format



Schedule

Designer will begin work immediately on notice to proceed from Prime and will incorporate its schedule with that of the City and Prime.

Assumptions and Exceptions

The following assumptions were used in preparing this scope of services and fee proposal:

- City will provide existing as-builts within the project limits.
- Prime will provide an electronic base plan of the project corridor.
- The traffic design plans will be included in the overall design plan set.
- No roadway lighting analysis or design will be completed.
- No FMS/Traffic signal interconnect, or traffic control design will be completed.
- There will be four plan submittals.
- All plan submittals will be in electronic PDF format. No costs for printing or shipping of submittals are included in this proposal.
- Three (3) meetings are planned with this project including one (1) kickoff meeting and two (2) comment resolution meetings.
- No utility coordination or relocation design.
- Any permits are the responsibility of the Prime. Designer shall not provide any environmental or permitting services as part of this scope of work.
- No preparation of shop drawings
- No value engineering study or analysis

This scope of services includes, traffic signal modification design, meetings, mileage, and printing costs.

Additional Items:

Additional meeting attendance (including additional comment resolution meetings), if requested by the City of Avondale, traffic counts, traffic analysis, plan submittals, utility coordination outside of the electrical service coordination and overhead utility clearance, roadway lighting analysis, ITS/Traffic signal interconnect design, changes to the traffic engineering plans based on changes to the project limits, additional plan sheets, final records and draft record drawings to show construction changes, or items not specifically outlined in this scope of services will require a separate fee negotiation. A schedule of hours and fee proposal has been attached to this scope of services.

3. Payments:

Designer shall invoice the Prime monthly based on the hourly rates provided in Exhibit B.

**EXHIBIT B – FEE ESTIMATE**

FIRM:	Y2K Engineering, LLC.			10/10/2018
PROJECT:	City of Avondale - El Mirage Road & Buckeye Road (MC-85)			
PROJECT NO:				
ESTIMATED STAFF HOURS				
TASK	Senior Project Engineer	Project Engineer	Designer	TOTAL FEES
	\$184.14	\$122.76	\$79.79	
1. Site Reconnaissance/Data Collection				
1.1 Site Visit	0	0	2	\$159.58
1.2 Data Collection	0	2	2	\$405.10
1.3 Base Plan Preparation	0	2	6	\$724.26
Task 2: 30%, 90%, 100% and Final Design				
2. Traffic Signal Design				
2.1 Traffic Signal Design (2 Sheets)	4	8	30	\$4,112.34
2.2 Estimate / Special Provisions	0	2	4	\$564.68
2.3 Comment Resolution (60%, 90%)	2	4	6	\$1,338.06
2.4 QA/QC	2	4	0	\$859.32
2.5 Overhead Clearance (SRP Coordination)	2	2	4	\$932.96
3. Meetings				
3.1 Project Kickoff Meeting	2	0	0	\$368.28
3.2 Comment Resolution Meetings (2)	0	4	0	\$491.04
TOTAL HOURS	12	28	54	94
TOTAL FEES	\$2,209.68	\$3,437.28	\$4,308.66	\$9,955.62

Total Base Services**\$9,955.62**



CITY COUNCIL AGENDA

SUBJECT:

Minor Land Division Tolleson Union High School
District Application PL-18-0176

MEETING DATE:

2/4/2019

TO:

Mayor and Council

FROM:

Tracy Stevens, Development & Engineering Services Department Director,
(623) 333-4012

THROUGH:

Charles A. Montoya, City Manager, (623) 333-1016

REQUEST:

Approval of a Minor Land Division (MLD) that combines five parcels of land into one 69.18-acre parcel, dedicates public right-of-way, public utility easements (PUE), sewer easements, and access easements to the City of Avondale.

PARCEL SIZE:

69.18 acres

LOCATION:

Northwest corner of Avondale Boulevard and Encanto Boulevard

APPLICANT:

Mr. Casey Whiteman, Hilgart Wilson, LLC

OWNER:

Tolleson Union High School District

BACKGROUND:

The subject property was annexed into the City of Avondale in April, 2008 by Ordinance No. 1301. Upon annexation the 60.62 acres was zoned Rural Residential (RR-43). The subject site has primarily been used as a dairy farm and other agricultural uses. The dairy farm ceased operation in 2013.

On January 16, 2018, Council approved applications PL-17-0042, a request to rezone 60.18 acres of the subject site to Planned Area Development for the Encanto Crossing residential subdivision. Council also approved a preliminary plat for the development, subdividing the site into 217 single-family lots at the same meeting.

Subsequently, the Tolleson Union High School District purchased the entirety of the Encanto Crossing development and a majority of a City of Avondale owned parcel of land adjacent to Avondale Boulevard. The City retained a portion of the property for a future well site located at the northeast corner of the site. Improvement plans were approved by City Staff in August of 2018 and Phase One of the high school is currently under construction.

This Minor Land Division application is being processed to combine the five separate parcels into a single parcel of land, abandon private access easements, and dedicate rights-of-way for the half-street improvements adjacent to 119th Avenue, Encanto Boulevard, and Virginia Avenue. The Minor Land Division also dedicates Public Utilities Easements (PUE), Sewer Easements, and an access easement for the future City of Avondale well site.

SUMMARY OF REQUEST:

1. The proposed Minor Land Division dedicates 22' of right-of-way adjacent to the high schools 119th Avenue frontage to the City of Avondale. The length of the dedication totals 540 linear feet.
2. The proposed Minor Land Division dedicates up to 35' for a sewer easement adjacent to the high schools 119th Avenue frontage to the City of Avondale. The length of the dedication totals 540 linear feet.
3. The proposed Minor Land Division dedicates 23' of right-of-way adjacent to the high schools Encanto Boulevard frontage to the City of Avondale. The length of the dedication totals 1,300 linear feet.
4. The proposed Minor Land Division dedicates an 8' Public Utilities Easement (PUE) adjacent to the high schools Encanto Boulevard frontage. The length of the dedication totals 1,300 linear feet in length.
5. The proposed Minor Land Division dedicates up to 25' of right-of way adjacent to the high schools Virginia Avenue frontage to the City of Avondale. The length of the dedication totals 265 linear feet.
6. The proposed Minor Land Division dedicates an 8' Public Utilities Easement (PUE) adjacent to the high school's Virginia Avenue frontage. The length of the dedication totals 265 linear feet.
7. The proposed Minor Land Division dedicates an 8' x 100' access easement to the City of Avondale for the future well site.
8. The proposed Minor Land Division abandons a 60' private access easement that is no longer vital to the development of the high school.

PARTICIPATION:

Public notification is not required for Minor Land Division applications.

PLANNING COMMISSION ACTION:

The Planning Commission does not review Minor Land Division applications.

ANALYSIS:

- The proposed Minor Land Division has been reviewed by the City's contracted Registered Land Surveyor and the document has been confirmed as geometrically accurate and in conformance with Arizona Statutes governing the subdivision of real property.
- The proposed Minor Land Division is in conformance with the City of Avondale Zoning Ordinance and Subdivision Regulations.
- Approval of the Minor Land Division conforms to the approved construction plans for the Tolleson Union High School and dedicates required right-of-way and easements necessary to serve the future development of the school and the City of Avondale well site.

STRATEGIC PLAN:

INITIATIVE: Advocate for and support community-oriented lifelong learning opportunities.

- STRATEGIC GOAL: Strengthen education and faith-based partnerships.

FINDINGS:

The proposed request complies with all applicable City documents, including but not limited to the Avondale Subdivision Regulations, Avondale Zoning Ordinance, Avondale General Plan 2030, and the General Engineering Requirements Manual.

RECOMMENDATION:

Staff recommends that the City Council APPROVE application PL-18-0176 as part of the February 4, 2019 consent agenda.

PROPOSED MOTION:

I move that the City Council **APPROVE** application PL-18-0176, a request to approve a Minor Land Division (Exhibit C) for property located at the northwest corner of Avondale Boulevard and Encanto Boulevard.

ATTACHMENTS:

Description

[Links to TUHSD Exhibits](#)

PROJECT MANAGER

Rick Williams, Senior Planner



TOLLESON UNION HIGH SCHOOL DISTRICT

Please click on the link below to view the documents associated with this Council Report.

Exhibit A- Aerial Photograph

<https://www.avondaleaz.gov/Home/ShowDocument?id=12062>

Exhibit B- Aerial Zoning Map

<https://www.avondaleaz.gov/Home/ShowDocument?id=12064>

Exhibit C- MLD

<https://www.avondaleaz.gov/Home/ShowDocument?id=12066>



CITY COUNCIL AGENDA

SUBJECT:

Resolution 3519-219 - Intergovernmental
Agreement for Southwest Family Advocacy
Center with Buckeye, Goodyear and Maricopa
County

MEETING DATE:

2/4/2019

TO: Mayor and Council

FROM: Dale Nannenga, Chief of Police, (623) 333-7207

THROUGH: Charles A. Montoya, City Manager, (623) 333-1016

PURPOSE:

Staff is requesting that the City Council approve an IGA with the City of Buckeye, the City of Goodyear and the County of Maricopa for the operational, maintenance and administrative costs, associated with the Southwest Family Advocacy Center

BACKGROUND:

The Southwest Family Advocacy Center (SWFAC) is a multidisciplinary facility developed and funded by the Police Departments of the Cities of Avondale, Buckeye, Goodyear and the County of Maricopa. The Center provides multidisciplinary investigative services to child victims, and witnesses of physical and sexual abuse, neglect, drug endangerment, and adult victims of domestic violence, sexual assault, sexual abuse, and elder abuse. Before the Center opened in 2008, the partnering agencies faced challenges associated with the investigation, prosecution, and treatment of cases involving victims of abuse. The Center was founded on the partners' shared belief that the investigation, prosecution, and treatment of child abuse and adult sexual abuse crimes are a multifaceted community problem and no single agency, individual or discipline has the necessary knowledge, skills or resources to serve the needs of these victims. The partners entered into an IGA to improve their response to abuse victims focusing on collaboration and communication among the agencies involved in responding to these cases and providing victims with immediate and long-term services. The partners recognize the operational impact of the Southwest Family Advocacy Center, which includes a significant increase in staff productivity when investigating abuse cases, a rise in prosecution rates and an improvement in treatment options and healing opportunities for victims. Before the opening of the Center, time spent conducting the initial investigation averaged over 12 hours compared to 3.5 hours now. The Maricopa County Attorney's Office reports that cases that have been worked out of the Center and then submitted for prosecution are stronger and conviction rates higher; 95% versus 42% before the Center opening. Additionally, abuse victims focusing on collaboration and communication among the agencies involved in responding to these cases and providing victims with immediate and long-term services.

DISCUSSION:

Staff is requesting that the City Council approve the updated intergovernmental agreement (IGA) with the City of Buckeye, the City of Goodyear and the County of Maricopa replacing the expired

IGA. Under this revised agreement, the partner agencies will continue to share equally in the operational, maintenance and administrative costs of the Southwest and maintain their shared commitment to the multidisciplinary approach of the Southwest Family Advocacy Center. The IGA will remain in full force and effect until June 30, 2024 upon City Council approval.

BUDGET IMPACT:

There is no new budgetary impact as all expenditures have already been authorized by the Council for the current fiscal year. Additionally, each subsequent fiscal year budget will be approved as part of the budget process.

RECOMMENDATION:

Staff recommends that the City Council approve the intergovernmental agreement with the City of Buckeye, the City of Goodyear and the County of Maricopa to equally share the costs associated with the operations, maintenance, and administration of the Southwest Family Advocacy Center.

ATTACHMENTS:

Description

[Resolution](#)

RESOLUTION NO. 3519-219

A RESOLUTION OF THE COUNCIL OF THE CITY OF AVONDALE, ARIZONA, APPROVING AN INTERGOVERNMENTAL AGREEMENT AMONGST THE CITY OF AVONDALE, THE CITY OF BUCKEYE, THE CITY OF GOODYEAR AND MARICOPA COUNTY, ARIZONA RELATING TO THE OPERATION OF THE SOUTHWEST FAMILY ADVOCACY CENTER.

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF AVONDALE as follows:

SECTION 1. The Intergovernmental Agreement amongst the City of Avondale, the City of Buckeye, the City of Goodyear and Maricopa County, Arizona relating to the operation of the Southwest Family Advocacy Center (the “Agreement”) is hereby approved in substantially the form and substance attached hereto as Exhibit A.

SECTION 2. The Mayor, the City Manager, the City Clerk and the City Attorney are hereby authorized and directed to take all steps necessary to cause the execution of the Agreement and to take all steps necessary to carry out the purpose and intent of this Resolution.

PASSED AND ADOPTED by the Council of the City of Avondale, Arizona, February 4, 2019.

Kenneth N. Weise, Mayor

ATTEST:

Marcella Carrillo, City Clerk

APPROVED AS TO FORM:

Andrew J. McGuire, City Attorney

EXHIBIT A
TO
RESOLUTION NO. 3519-219

[Agreement]

See following pages.

**INTERGOVERNMENTAL AGREEMENT
AMONGST
THE CITY OF AVONDALE, THE CITY OF BUCKEYE,
THE CITY OF GOODYEAR AND THE COUNTY OF MARICOPA, ARIZONA
FOR THE SOUTHWEST FAMILY ADVOCACY CENTER**

THIS INTERGOVERNMENTAL AGREEMENT (this “Agreement”) is entered into as of the date of the last signature below, by and amongst the City of Avondale, an Arizona municipal corporation (“Avondale”), the City of Buckeye, an Arizona municipal corporation (“Buckeye”), the City of Goodyear, an Arizona municipal corporation (“Goodyear”) and the County of Maricopa, Arizona, a political subdivision, acting by and through the Maricopa County Sheriff’s Office (“Maricopa”), for the operation of the Southwest Family Advocacy Center (the “Center”). Avondale, Buckeye, Goodyear and Maricopa are referred to herein individually, as a “Partnering Agency” and collectively, as the “Partnering Agencies.”

RECITALS

A. In 2006, Avondale, Buckeye, and Goodyear had a combined statistical approximation of 1,200 cases that involved domestic violence, nearly 200 cases involving child crimes and more than 140 cases of adult sexual assault. The collaborating agencies wanted to improve the criminal justice system’s response to these victims and identified the following areas of focus: (i) excessive interviews of victims, (ii) collaboration and communication among agencies charged with responding to abuse cases and (iii) immediate and long-term services available to abuse victims and their families. The need for a multidisciplinary investigative center for victims in the Southwest Valley was evident.

B. The Partnering Agencies believe that they can improve services provided to victims of child sexual and physical abuses, child neglect, child endangerment and adult victims of sexual abuse, sexual assault, domestic violence and elder abuse through the continued operation, of a multi-disciplinary team approach in the investigation, assessment, prosecution and medical and therapeutic treatment. The multidisciplinary approach, also known as the advocacy center model, is a victim-focused, facility-based program in which representatives from the core disciplines of law enforcement, child protection, prosecution, mental health, medical and victim advocacy collaborate to investigate abuse reports, conduct forensic interviews, determine and provide evidence-based interventions, and assess cases for prosecution.

C. As a community-based program, the Center is designed to meet the unique needs of the communities it serves. The Center was founded on the partners’ shared belief that the investigation, prosecution, and treatment of child abuse and adult sexual abuse crimes are a multifaceted community problem and no single agency, individual or discipline has the necessary knowledge, skills or resources to the serve the needs of these victims and their families.

D. The Center is a government-funded organization that is administered by a Steering Committee. The Center is an Accredited Member of the National Children’s Alliance, an organization responsible for the accreditation of Advocacy Centers across the United States. Staff adheres to the established Standards of Practice for Children’s Advocacy Centers and the Maricopa

County's Multidisciplinary Protocol for the Investigation of Child Abuse.

E. The coordinated and comprehensive response provided to victims of abuse is guided by the Partner Agencies shared philosophy that the combined expertise of professionals across disciplines results in a complete understanding of case issues and better provides help, support and protection to children and families as they pursue healing and justice. The Partner Agencies are committed to the multidisciplinary approach and the advocacy center model for its multidisciplinary abuse intervention response which includes: law enforcement, Department of Child Safety, county attorney's office, medical staff, mental health staff, victim advocacy staff and advocacy center staff. The Partner Agencies believe in the importance of interagency information sharing among multidisciplinary team members within the legal, ethical and professional requirements as dictated by each profession. The Partner Agencies acknowledge the importance of cross-discipline training and the implementation of said training plan by the Center's Director. The Partner Agencies commit to participation in the multidisciplinary team to achieve the overarching goals of the Center. The Partner Agencies are committed to shared referral, intake and interviewing procedures, collaborative decision-making and coordinated case planning and service delivery.

F. The multidisciplinary team approach, through the institution of the Center, will serve to enhance the individual efforts of each Partnering Agency. The primary goal is to ensure that victims are not further victimized by the intervention systems designed to protect them. The objectives include the development and provision of (i) a comprehensive multidisciplinary, developmentally and culturally appropriate, evidence-based response to the needs of children and their families in our collective communities; (ii) a neutral, victim-friendly facility where forensic interviews and coordinated case planning can be conducted; (iii) trauma-focused, evidence-supported medical and mental health treatment and victim services are provided; (iv) effective and coordinated case-management efforts based on open communication, information sharing and collaborative decision making; (v) comprehensive case tracking that monitors investigative, prosecutorial, child protection, medical, mental health and victim advocacy services; and (vi) cross-disciplinary, cross-cultural, and discipline-specific continuing education and training that enhances professional practice.

G. The benefits to the Partnering Agencies' communities include but are not limited to (i) more immediate investigative response to abuse reports; (ii) more efficient and specialized medical and mental health services and referrals; (iii) accessible and comprehensive victim services; (iv) reduction in the number of victim interviews; (v) increased successful prosecutions; and (vi) consistent, evidence-based support for victims and their families.

H. The benefits to the multidisciplinary team members include but are not limited to (i) appreciation and understanding of the roles, responsibilities, strengths and limitations of other agencies, systems and disciplines; (ii) increased access to professional and cross-disciplinary training; (iii) informed decision making with improved outcomes for victims and providers; (iv) opportunities to enhance policies and practice that improve system response, and (v) collegial support that helps address vicarious trauma and builds professional resilience.

I. The Partnering Agencies are authorized to enter into this Agreement pursuant to ARIZ. REV. STAT. § 11-952 and desire to enter into this Agreement to set for their obligations with respect to the operation of the Center.

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing recitals, which are incorporated herein by reference, the following mutual covenants and conditions, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Partnering Agencies agree as follows:

1. Purpose and Intent of Agreement.

1.1 The Partnering Agencies intend to operate and manage the Center for use by the Partnering Agencies to provide on-site agency collaboration through the use of the multidisciplinary team approach and the advocacy center model, the investigation, prosecution assessment, treatment, protection, and prevention of child sexual and physical abuse, child neglect, child endangerment, adult sexual abuse, sexual assault, domestic violence and elder abuse cases.

1.2 This Agreement provides for the operation and funding of the Center and supersedes any and all agreements previously entered into for the operation and funding of the Center.

1.3 Avondale shall provide for the overall day-to-day management of the Center subject to the guidance of the Steering Committee (as defined in Subsection 5.1 below).

2. Term. This Agreement shall remain in full force and effect until June 30 , 2024 (the “Initial Term”), unless terminated as otherwise provided pursuant to the terms and conditions of this Agreement. After the expiration of the Initial Term, this Agreement shall automatically renew for successive three-year terms (each a “Renewal Term”) thereafter until the Partnering Agencies terminate this Agreement pursuant to the terms and conditions contained herein. The Initial Term and any Renewal Term(s) are collectively referred to herein as the “Term.” Upon renewal, the terms and conditions of this Agreement shall remain in full force and effect.

3. Finances. Each Partnering Agency shall contribute toward the annual operations and maintenance budget of the Center (“O&M Costs”) in equal shares, as more fully set forth herein.

3.1 Budget. The Center Director (as defined in Subsection 5.2 below) and the Avondale Police Department Budget Manager will develop an estimated annual Center operations and maintenance budget for review by the Partnering Agencies by December 15th of each year. The Steering Committee shall adopt and approve a final operations and maintenance budget for the following fiscal year, no later than February 1st of the current fiscal year. The operations and maintenance budget shall include all annual operating, maintenance, and repair costs for the Center, including, but not limited to, (A) authorized personnel salaries and benefits, (B) services and supplies including, but not necessarily limited to, utilities, office supplies, maintenance supplies, contractual services, (C) expenditures related to repair and maintenance of the Center facility, (D) liability

insurance as provided in Section 7.4 below (E) lease expenditures, and (F) all other expenditures approved by the Steering Committee (the “O&M Budget”).

3.2 Partnering Agency Obligations. Each Partnering Agency shall bear, at its own expense, the operating, repair, and maintenance costs incurred solely for the benefit of each respective Partnering Agency (i.e., Partnering Agency provided office furniture and equipment (including technology related equipment) used by the respective Partnering Agency). Each Partnering Agency will acquire, hold or dispose of their personal property housed at the Center and necessary to operate its respective portion of the Center (i.e. computers, printers, etc.).

3.3 Center Fund. All Center accounts are subject to oversight and control of the Steering Committee. Avondale will administer the financial activities of the Center as a revenue fund (the “Center Fund”) in accordance with generally accepted accounting principles. All monies received by the Center, included each Partnering Agencies’ proportionate share of the O&M Costs, shall be deposited into the Center Fund. Expenditures from the Center Fund over \$5,000 require the approval of the Steering Committee. The Center Fund will receive and separately account for all income belonging to the Center. All monies not expended in the Center Fund will remain the property of the Center Fund and roll forward into the next fiscal year for expenditure in accordance with the provisions herein. Any interest earned on the monies in the Center Fund, after deducting applicable bank charges, must be credited to this Center Fund. Nothing in this Agreement will act as an abrogation of the budgeting and appropriation authority of the legislative and/or governing bodies of the respective Partnering Agencies.

3.4 Joint Use Purchases. All property items (i.e. furniture, equipment, supplies and furnishings) authorized by the Steering Committee to be jointly purchased for use by the Partnering Agencies shall be considered “Joint Use Items.” The cost for Joint Use Items shall be shared equally by the Partnering Agencies and shall be paid for out of the Center Fund. All Joint Use Items shall be considered property of the Center and shall not be removed from the Center by a Partnering Agency. Avondale, as the day-to-day operator of the Center, shall not dispose of or otherwise convert any such Joint Use Items without the consent of the Steering Committee. Subject to the termination provisions set forth in Section 10 below, all Joint Use Items shall be held by Avondale for the benefit of and use by all Partnering Agencies.

3.5 Reimbursement. Each Partnering Agency shall reimburse the Center for the costs of repair of damage to the Center beyond ordinary wear and tear, caused by the Partnering Agency. The Center Director shall (A) determine the costs of repair and a preliminary determination as to whether such repairs are beyond ordinary wear and tear and (B) report such determinations to the Steering Committee, which shall be the final decision as to whether the costs are to be assessed to a Partnering Agency. In the event that the Steering Committee disagrees with the Center Director’s determination, the costs shall be paid from the Center Fund. This provision does not apply to claims covered under any property coverage or insurance.

3.6 Invoices. Avondale, acting by and through the Center Director, shall invoice each Partnering Agency at least quarterly for its proportionate share of O&M Costs. For purposes of municipal budgeting and planning purposes, an estimate of the proportionate share for the following fiscal year will be provided to each Partnering Agency not later than February 1st of each year.

4. Center Location. Avondale shall enter into a lease for a facility, that is mutually agreeable to the Partnering Agencies, to house the Center and shall be responsible for all necessary payments related thereto. The Center is currently located at 2333 North Pebble Creek Parkway, Goodyear, Arizona,

5. Center Governance.

5.1 Steering Committee. The Steering Committee is hereby established by this Agreement and shall serve as the governing body of the Center. The Steering Committee shall consist of the Avondale Police Chief, the Buckeye Police Chief, the Goodyear Police Chief and the Maricopa County Sheriff's Office Bureau Chief (the "Steering Committee").

A. Chairperson. During FY 2018-19, the Buckeye Police Chief shall serve as chairman of the Steering Committee. Thereafter, at the first meeting of each fiscal year (July 1 through June 30), the Steering Committee chairperson position shall rotate among the partners (Goodyear, Maricopa County, Avondale and Buckeye, in that order).

B. Responsibilities. As the governing body of the Center, the Steering Committee shall (1) review and approve any capital improvement plan for the Center, (2) review and approve the annual Center O&M Budget for the period July 1 through June 30 or portion thereof for each year of operation, by February 1st for the following fiscal year, (3) review and approve the Center Policies and Procedures Manual, and any amendments thereto, (4) review and approve donations to the Center and (5) conduct all other duties and responsibilities necessary for the operation of the Center.

C. Meetings. The Steering Committee will meet as necessary, but not less than quarterly. Meetings will be scheduled on not less than 30 days' written notice to each Partnering Agency, except upon consent of all of the members of the Steering Committee. The Center Director will attend Steering Committee meetings as a non-voting member. Steering Committee members may appoint alternates who may attend Steering Committee meetings but who shall not have a vote except in the absence of the respective Steering Committee member. The Center Director shall develop the meeting agenda, preside at and conduct all meetings of the Steering Committee. As soon as possible after each meeting, a copy of the minutes shall be provided to each of the members.

D. Voting Authority. Members of the Steering Committee shall vote on all items on the basis of one vote per Steering Committee member. Except in the case of a tie, in which the Steering Committee Chairman will have two votes. In the case of the absence of a Steering Committee member, an appointed alternate shall have the right to vote on behalf of the respective Partnering Agency. A Steering Committee member may not designate another Steering Committee member to be his proxy for voting purposes. Before any action or decision of the Steering Committee is taken or made, the members present shall have the opportunity to discuss their respective Partnering Agency's positions or opinions on matters before the Steering Committee.

5.2 Center Director. The “Center Director” shall be an Avondale employee, appointed by the Avondale City Manager, as provided herein. The Center Director’s salary and benefits shall be paid for out of the Center O&M Budget. The members of the Steering Committee will participate in the selection process of the Center Director and will make a recommendation to the Avondale City Manager regarding selection of the Center Director. After considering recommendations from the Steering Committee members participating in the selection process, the Avondale City Manager will select the Center Director. The Steering Committee may make recommendations to Avondale regarding the Center Director’s performance at the time when Avondale is preparing to conduct the Center Director’s evaluation. Avondale agrees to consider the Steering Committee’s recommendations in conducting the Center Director’s performance evaluation and, in addition, Avondale may use additional criteria in evaluating the Center Director’s performance for the year. If the Center Director’s position becomes vacant while this Agreement is in effect, Avondale agrees to provide an interim Center Director and to recruit and select a new Center Director as outlined herein. All cost for recruitment and selection for the position of Center Director shall be paid for by the Center O&M Budget.

A. Responsibilities. The Center Director will be primarily responsible for implementing the decisions of the Steering Committee and for overseeing the day-to-day operations of the Center. The Center Director will implement the multidisciplinary approach using the advocacy center model based on the standards for accreditation as established by the National Children’s Alliance. Through the Steering Committee’s annual review and approval of the annual budget for the Center, the Steering Committee will establish priorities for the Center Director for the upcoming year as they relate to the Center.

B. Center Operations. Avondale, acting by and through the Center Director shall serve as the day-to-day manager of the Center. The Center Director shall have the responsibility to maintain the Center in good condition and repair as outlined in the lease agreement and for overseeing the maintenance and repair of the Center by the property owner. Avondale shall develop facility management contracts with vendors and oversee the procurement of emergency repairs for the Center, as required. Emergency repairs will be defined as those repairs that are immediately necessary to protect buildings, facilities and grounds from further damage and to keep the Center functional. The Center Director along with the Avondale Police Department Budget Manager shall establish and maintain accounts and records, including personnel, property, financial, project management, and other records as required by Avondale and consistent with generally accepted accounting principles to ensure proper accounting for all ongoing operating and maintenance costs.

C. Operations Manual. The Center Director will maintain and revise a policy and procedures manual to be reviewed and approved by the Steering Committee. The manual will address matters relating to (1) scheduling procedures, (2) policies, procedures and practices for day-to-day (or otherwise necessary and beneficial to the) operations of the Center, (3) the staffing and organizational structure of the Center, (4) policies, procedures, practices, (5) Partnering Agency responsibilities when using the Center, (6) general guidance for the Center Director’s professional operation and management of the Center and (7) any other matters deemed necessary or beneficial by the Center Director and Steering Committee (the “Center Operations Manual”).

D. Quarterly Reports. The Center Director shall provide each Partnering Agency with a quarterly update outlining each Partnering Agency's usage for the quarter and cumulative total for the current year. The quarterly update shall include usage from Partnering and non-partnering agencies, as well as information related to the administration, leadership, budget, donations, personnel, training and community outreach conducted during the quarter. Quarterly updates shall be presented to the Steering Committee for approval.

6. Indemnification. To the fullest extent permitted by law, each Partnering Agency (each, an "Indemnitor") shall indemnify, defend and hold harmless the Center and each other Partnering Agency and each council member, officer, employee or agent thereof (each Partnering Agency and any such person being herein called an "Indemnatee") for, from and against any and all losses, claims, damages, liabilities, costs and expenses (including, but not limited to, reasonable attorneys' fees, court costs and the costs of appellate proceedings) to which any Indemnatee may become subject under any theory of liability whatsoever ("Claims"), insofar as such Claims (or actions in respect thereof) relate to, arise out of, or are caused by or based upon the negligent acts, intentional misconduct, errors, mistakes or omissions, in connection with the work or services of the Indemnitor, its officers, employees, agents or any tier of subcontractor in the performance of this Agreement.

6.1 Comparative Negligence. In the event of any lawsuit that names the Center or more than one Partnering Agency as a defendant ("Defendant Party" or "Defendant Parties"), the Defendant Parties shall seek to secure an allocation of comparative negligence among themselves where appropriate and each Defendant Party shall provide contribution to each other Defendant Party to the extent of the comparative allocation.

7. Insurance.

7.1 General Insurance Requirements. The Partnering Agencies mutually agree to provide for their respective financial responsibilities relating to liability arising out of this Agreement through either the purchase of insurance or the provision of a self-funded insurance program.

7.2 Workers' Compensation Insurance. The Partnering Agencies agree that they are not joint employers for the purpose of workers' compensation coverage and that any Partnering Agency employee assigned to the Center shall remain an employee of such Partnering Agency. To the extent that employees of one Partnering Agency perform duties on behalf of another Partnering Agency, such employee shall be deemed to be an "employee" of both public agencies while performing pursuant to this Agreement solely for purposes of ARIZ. REV. STAT. § 23-1022 and the Arizona Workers' Compensation laws. The primary employer shall be solely liable for any workers' compensation benefits, which may accrue. Each Partnering Agency shall post a notice pursuant to the provisions of ARIZ. REV. STAT. § 23-1022 in substantially the following form:

All employees are hereby further notified that they may be required to work under the jurisdiction or control or within the jurisdictional boundaries of another public agency pursuant to an intergovernmental agreement or contract, and under such circumstances they are deemed by the laws of

Arizona to be employees of both public agencies for the purposes of worker's compensation.

7.3 Non-Partnering Agency Insurance. The Center Director shall secure and maintain indemnification and proper proof of insurance coverage from any non-partnering agency assigning individuals to the Center.

7.4 Center Insurance. The Center Director shall make provision for and maintain all standard and prudent liability insurance coverage with a deductible in an amount equal to the mandatory arbitration limit as set by the Maricopa County Superior Court. Coverage shall be secured through the placement of coverage with a third party insurer. All costs of coverage will be incorporated into the Center O&M Budget, and will be divided equally between the Partnering Agencies on an annual basis. This Section shall be limited to the extent provided for in the contract for insurance secured through a third party insurer.

7.5 Settlement Procedures and Authority. In the event a liability claim or lawsuit is filed against the Center or all of the Partnering Agencies related to the use and operation of the Center, there shall be a meeting between the risk managers and attorneys from each Partnering Agency to discuss how best to address the claim or lawsuit. Should the parties agree to settle any claim or lawsuit against the Center, the risk managers and attorneys will make such a recommendation to their respective governing body. The authority for the settlement of any claim or lawsuit against the Center or all of the Partnering Agencies shall lay with the governing body of each Partnering Agency and shall be provided for by funds allocated among the Partnering Agencies, whether such funds are available through the O&M Budget or additional contributions from the Partnering Agencies are required. Except to the extent provided for in the contract for insurance secured through a third party insurer, the authority to settle any claim or lawsuit arising out of or in connection with the use or operation of the Center made against an individual Partnering Agency or some of the Partnering Agencies not amounting to all of the Partnering Agencies shall lay with the individual Partnering Agency or Agencies in accordance with any governing legal authorities applicable to such Partnering Agency or Agencies, as the case may be.

8. Amendments. Prior to processing an amendment to this Agreement, a recommendation shall be provided by the Center Director and forwarded to the Steering Committee for approval. To be effective, any modification of this Agreement must be in writing, signed by the parties and approved by their respective governing bodies. The addition of any new Partnering Agency shall constitute an amendment to this Agreement and shall be processed pursuant to this Section 8.

9. Entire Agreement; Interpretation; Parol Evidence. This Agreement represents the entire agreement of the Partnering Agencies with respect to its subject matter hereof, and all agreements, whether oral or written, entered into prior to this Agreement with respect to the subject matter hereof are hereby revoked and superseded by this Agreement. No representations, warranties, inducements or oral agreements have been made by any of the Partnering Agencies except as expressly set forth herein, or in any other contemporaneous written agreement executed for the purposes of carrying out the provisions of this Agreement. This Agreement shall be construed and interpreted according to its plain meaning, and no presumption shall be deemed to apply in favor of,

or against the party drafting the Agreement. The Partnering Agencies acknowledge and agree that each has had the opportunity to seek and utilize legal counsel in the drafting of, review of, and entry into this Agreement.

10. Termination of Agreement.

10.1 Voluntary Termination. A Partnering Agency may terminate its participation in this Agreement by providing not less than 60 days written notice of the intent to terminate the Agreement to the other Partnering Agencies. A Partnering Agency terminating this Agreement as provided herein shall forfeit (A) any contribution made to the annual operating, maintenance, and repair costs referenced in Section 3 of this Agreement, (B) any contributions made toward the acquisition of, or any interest in, the Joint Use Items and (C) any interest in the donation(s) made to the Center pursuant to Section 13 below.

10.2 Involuntary Termination. The failure of any Partnering Agency to adhere to the terms and conditions of this Agreement, including timely payment of fees due, may constitute grounds for that Partnering Agency's involuntary termination from participation in the Center. A Partnering Agency in breach of any of the terms of this Agreement ("Breaching Party") must be notified in writing by the Center Director that, unless it comes into compliance within 30 days of receipt of the written notice, its participation in the Center may be involuntarily terminated. If the Breaching Party fails to remedy the breach within the specified time frame, the issue of its involuntary termination will be considered by the Steering Committee. The Steering Committee will provide the Breaching Party an opportunity to appear before it and to show why its participation in the Center should not be involuntarily terminated. The failure of the Breaching Party to appear shall constitute a waiver of any future right to do so. Upon unanimous agreement of the Partnering Agencies not in default, the Steering Committee will notify the Breaching Party in writing that its participation in the Center is terminated and that it will forfeit any claim to any Center assets. Avondale retains the right to seek legal redress, if necessary, to obtain payment on amounts due from other Partnering Agencies. A Partnering Agency terminated for late or non-payment forfeits any claim to any Center assets, Center contributions or use of the Center.

10.3 Conflict of Interest. This Agreement is subject to the provisions of ARIZ. REV. STAT. § 38-511. A Partnering Agency may cancel this Agreement without penalty or further obligations by the Partnering Agency or any of its departments or agencies if any person significantly involved in initiating, negotiating, securing, drafting or creating this Agreement on behalf of the Partnering Agency or any of its departments or agencies is, at any time while the Agreement or any extension of the Agreement is in effect, an employee of any other party to the Agreement in any capacity or a consultant to any other party of the Agreement with respect to the subject matter of the Agreement.

10.4 Gratuities. A Partnering Agency may, by written notice to the other Partnering Agencies, cancel this Agreement if it is found by the Partnering Agency that gratuities, in the form of economic opportunity, future employment, entertainment, gifts or otherwise, were offered or given by the Partnering Agencies or any agent or representative of the Partnering Agencies to any officer, agent or employee of the Partnering Agencies for the purpose of securing this Agreement. In the event this Agreement is canceled by a Partnering Agency pursuant to this provision, the Partnering

Agency shall be entitled, in addition to any other rights and remedies, to recover or withhold from the Partnering Agencies an amount equal to 150% of the gratuity.

11. Assignment. A Partnering Agency may fully assign its rights and obligations under this Agreement as provided herein. No partial assignment of a Partnering Agency's rights and obligations hereunder shall be permitted. The assigning Partnering Agency's rights and obligations hereunder may only be assigned by a written instrument, approved by the respective governing bodies of the departing Partnering Agency and the remaining Partnering Agencies, expressly assigning such rights, and approved by the governing body of the new Partnering Agency, specifically assuming such rights and obligations. Upon approval of an assignment and assumption hereunder, the assigning Partnering Agency's rights and obligations hereunder shall terminate.

12. Applicable Law; Venue. In the performance of this Agreement, all Partnering Agencies to the Agreement shall abide by and conform to any and all laws of the United States, the State of Arizona, including, but not limited to, federal and state executive orders providing for equal employment and procurement opportunities, the Federal Occupational Safety and Health Act and any other federal or state laws applicable to this Agreement. This Agreement shall be governed by the laws of the State of Arizona and a suit pertaining to this Agreement may be brought only in courts in Maricopa County, Arizona.

13. Donations to the Center. Avondale is authorized to accept donations on behalf of the Center. The Partnering Agencies will direct all inquiries regarding potential donations to the Center to the Center Director, who will have the primary responsibility for negotiating the terms of each potential donation. The Center Director will inform the Steering Committee of the details of the offered donations. The Steering Committee will have the discretion to accept or reject proposed donations provided that the Steering Committee will reject any offered donation which, in the Steering Committee's sole discretion, (i) would negatively affect the Center's reputation, (ii) include designated uses for the donation specified by the potential donor that are inconsistent with the purposes of the Center, (iii) are from a potential donor who lacks the authority or mental capacity to make the donation, or (iv) subject to subsection 13.3, where the donated property is not capable of being promptly and easily converted to cash or a cash equivalent. Once the Steering Committee has accepted a proposed donation pursuant to subsection 13.4 below, the Center Director will cause the donor to execute a Southwest Family Advocacy Center Gift Agreement ("Gift Agreement"), substantially in the form attached hereto as Exhibit A, for donations with a value of \$1,000.00 or more. The Center Director will cause the donor to execute the Avondale Charitable Donation Receipt, attached hereto as Exhibit B, for donations with a value of less than \$1,000.00. Avondale shall maintain a system to hold, account for and distribute such donations. All donations of property other than cash, or cash equivalents may be accepted by Avondale on behalf of the Center subject to the provisions herein.

13.1 Real Property. Avondale may accept donations of real property on behalf of the Center. Real property donations will be accepted according to the Avondale's established practice for the acquisition of real property. The Center Director shall forward all inquiries regarding the donation of real property to the Avondale City Manager.

13.2 Personal Property. Avondale may accept gifts of personal property on behalf of the Center subject to the following conditions.

A. Steering Committee Determination. Subject to subsection 13.3 below, Avondale will not accept donations of personal property unless the Steering Committee believes the property may be of value to or used by the Center.

B. Live Property; Special Facilities. Avondale will not accept live property, nor will Avondale accept any property requiring special facilities or security.

13.3 Disposition of Donated Property. Unless the Steering Committee determines that the retention of donated property would further the purposes of the Center, the Steering Committee will direct the Center Director to promptly sell, or cause to be sold, all donated property, which sale shall be conducted according to the Avondale Procurement Code and any applicable laws and regulations. The Center Director will treat the proceeds from such sales as a cash donation under subsection 13.5. Avondale will not accept a donation under circumstances that obligate Avondale to own such donated property for a definite term or in perpetuity. The Center Director, the Steering Committee, and the Partnering Agencies shall not make any representation to any donor or potential donor that property will or will not be held by the Center for a specific period of time.

13.4 IRS Donation Forms. When appropriate, the Center Director will assist the appropriate Avondale staff member in preparation and execution of an IRS Form 8283, Non-Cash Charitable Contributions, when presented by the donor for signature. A qualified appraisal must be attached to IRS Form 8283. When appropriate, the Center Director will assist the appropriate Avondale staff member in preparation and filing of an IRS Form 8282, Donee Information Return, with the Internal Revenue Service promptly after the sale of donated property.

13.5 Cash Donations; Proceeds from Donated Property. Avondale will deposit into the Center Fund all donations made in cash, by check or by credit card, and all proceeds from the sale of property donations. All checks must be made payable to "City of Avondale."

13.6 Use of Donated Property. All donations made to Avondale on behalf of the Center will be used in accordance with the desires of each donor, if specified by the donor in the Gift Agreement, but in any event, for the exclusive benefit, and to satisfy the purposes, of the Center. Except as otherwise stated in this subsection 13.6 (A) the Steering Committee will have the sole authority to direct the Center Director concerning the use of each donation which is equal to or less than \$25,000 and (B) the Steering Committee shall make a recommendation to the Partnering Agencies, who will jointly direct the Center Director concerning the use of each donation which is in excess of \$25,000. The County/ City/Town Manager of each of the Partnering Agencies, or his/her designee, is authorized to give final approval on behalf of his/her respective Partnering Agency with respect to this subsection 13.6. The Center Director will be primarily responsible for implementing the decisions of the Steering Committee or the decisions of the Steering Committee and the Partnering Agencies, as the case may be.

13.7 Donor Identity. All information concerning the identity of a donor will be considered information subject to disclosure in accordance with the Arizona Public Records Law. If

a donor requests that his/her identity remain confidential, to the extent permitted by law, Avondale will attempt to prohibit and or limit the disclosure of such information.

13.8 Tax Implications. The Center Director will advise all donors and prospective donors to seek independent legal and tax advice regarding all aspects of their proposed donations. The Center Director, the Steering Committee and the Partnering Agencies shall not make any representation to any donor or potential donor regarding the state or federal tax treatment of any donation to Avondale on behalf of the Center. The Steering Committee will consult with a tax advisor to ensure that the Center's acceptance of donations complies with state and federal tax law.

13.9 Legal Documentation. The Center Director is not authorized to execute any agreement, contract, trust or other legal document pertaining to a donation to the Center. All such agreements, contracts, trusts or legal documents shall be approved by Avondale's City Manager after review by the Avondale City Attorney.

14. Miscellaneous.

14.1 Relationship of Partnering Agencies. Each Partnering Agency to the Agreement shall act in its individual capacity and not as an agent, employee, partner, joint venturer, associate, or any other representative capacity of the others. Each Partnering Agency shall be solely and entirely responsible for its acts or acts of its agents and employees during the performance of this Agreement. This Agreement shall not be construed to imply authority to perform any tasks, or accept any responsibility, not expressly set forth herein. This Agreement shall be strictly construed against the creation of a duty or responsibility unless the intention to do so is clearly and unambiguously set forth herein. Nothing contained in this Agreement confers any right to any person, (including, but not limited to, the Center Director) or entity not a party to this Agreement.

14.2 Provisions Required by Law. Each and every provision of law and any clause required by law to be in the Agreement will be read and enforced as though it were included herein and, if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the Agreement will promptly be physically amended to make such insertion or correction.

14.3 Severability. The provisions of this Agreement are severable to the extent that any provision or application held to be invalid by a Court of competent jurisdiction shall not affect any other provision or application of the Agreement which may remain in effect without the invalid provision or application.

14.4 Waiver. Failure of any Partnering Agency to exercise any right or option arising out of a breach of this Agreement shall not be deemed a waiver of any right or option with respect to any subsequent or different breach, or the continuance of any existing breach.

14.5 Counterparts. This Agreement may be executed in any number of counterparts, all such counterparts shall be deemed to constitute one and the same instrument, and each of said counterparts shall be deemed original hereof.

14.6 Notices and Requests. Any notice or other communication required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been duly given if (A) delivered to the party at the address set forth below, (B) deposited in the U.S. Mail, registered or certified, return receipt requested, to the address set forth below or (C) given to a recognized and reputable overnight delivery service to the address set forth below:

If to the City of Avondale

Notice to: City of Avondale
11465 West Civic Center Drive
Avondale, Arizona 85323
Attn: Charles Montoya, City Manager

With copy to: GUST ROSENFELD, P.L.C.
One East Washington Street, Suite 1600
Phoenix, Arizona 85004-2553
Attn: Andrew J. McGuire, Esq.

If to the City of Buckeye

Notice to: City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326
Attn: Roger Klingler, City Manager

With copy to: GUST ROSENFELD, P.L.C.
One East Washington Street, Suite 1600
Phoenix, Arizona 85004-2553
Attn: Shiela Schmidt, Esq.

If to the City of Goodyear

Notice to: City of Goodyear
190 North Litchfield Road
Goodyear, Arizona 85338
Facsimile: (623) 882-7520
Attn: Julie Arendall, City Manager

If to Maricopa County

Notice to: County of Maricopa, Arizona
301 West Jefferson Street
Phoenix, Arizona 85003
Facsimile: (602) 506-6362
Attn: Joy Rich, County Manager

or at such other address, and to the attention of such other person or officer, as any party may designate in writing by notice duly given pursuant to this subsection. Notices shall be deemed received (A) when delivered to the party, (B) three business days after being placed in the U.S. Mail, properly addressed, with sufficient postage or (C) the following business day after being given to a recognized overnight delivery service, with the person giving the notice paying all required charges and instructing the delivery service to deliver on the following business day. If a copy of a notice is also given to a party's counsel or other recipient, the provisions above governing the date on which a notice is deemed to have been received by a party shall mean and refer to the date on which the party, and not its counsel or other recipient to which a copy of the notice may be sent, is deemed to have received the notice.

14.7 Agreement Subject to Appropriation. The performance by each Partnering Agency to this Agreement of its respective obligations under the Agreement is subject to actual availability of funds appropriated by each Partnering Agency for such purposes. Each Partnering Agency to the Agreement shall be the sole judge and authority in determining the availability of funds under the Agreement and each Partnering Agency shall keep the other Partnering Agencies fully informed as to the availability of funds for its obligations. The obligation of each Partnering Agency to fund any obligation pursuant to the Agreement is a current expense of such Partnering Agency, payable exclusively from such annual appropriations, and is not a general obligation or indebtedness of the Partnering Agency. If the governing body of a Partnering Agency fails to appropriate money sufficient to meet its obligations as set forth in the Agreement during any immediately succeeding fiscal year, the Agreement shall terminate with respect to that Partnering Agency at the end of the then-current fiscal year and such Partnering Agency shall thereafter be relieved of any subsequent obligation under the Agreement. The Agreement will remain in full effect for the remaining Partnering Agencies to the Agreement.

14.8 E-verify, Records and Audits. To the extent applicable under ARIZ. REV. STAT. § 41-4401, the Partnering Agencies and their respective subcontractors warrant compliance with all federal immigration laws and regulations that relate to their employees and compliance with the E-verify requirements under ARIZ. REV. STAT. § 23-214(A). The Partnering Agencies' or a subcontractor's breach of the above-mentioned warranty shall be deemed a material breach of the Agreement and may result in the termination of the Agreement by either party under the terms of this Agreement. The Partnering Agencies each retain the legal right to randomly inspect the papers and records of each other Partnering Agency and each other Partnering Agencies' subcontractors who work under this Agreement to ensure that the other party and its subcontractors are complying with the above-mentioned warranty. The Partnering Agencies warrant to keep their respective papers and records open for random inspection during normal business hours by each other Partnering Agency. The Partnering Agencies and their respective subcontractors shall cooperate with each other Partnering Agencies' random inspections including granting the inspecting Partnering Agency entry rights onto their respective properties to perform the random inspections and waiving their respective rights to keep such papers and records confidential.

IN WITNESS WHEREOF, the Partnering Agencies have executed this Agreement on the dates of their respective signatures written below.

[SIGNATURES ON FOLLOWING PAGES]

“Partnering Agency”

CITY OF AVONDALE, an Arizona
municipal corporation

Kenneth N. Weise, Mayor

Date:_____

ATTEST:

Marcella Carrillo, City Clerk

CERTIFICATION BY LEGAL COUNSEL

In accordance with the requirements of ARIZ. REV. STAT. § 11-952(D), the undersigned Attorney acknowledges that (i) she/he has reviewed the above agreement on behalf of her/his client and (ii) as to her/his client only, has determined that the Agreement is in proper form and is within the powers and authority granted under the laws of the State of Arizona.

Andrew J. McGuire, City Attorney

[SIGNATURES CONTINUE ON FOLLOWING PAGE]

“Partnering Agency”

CITY OF BUCKEYE, an Arizona
municipal corporation

Jackie A. Meck, Mayor

Date:_____

ATTEST:

Lucinda Aja, City Clerk

CERTIFICATION BY LEGAL COUNSEL

In accordance with the requirements of ARIZ. REV. STAT. § 11-952(D), the undersigned Attorney acknowledges that (i) she has reviewed the above agreement on behalf of her client and (ii) as to her client only, has determined that the Agreement is in proper form and is within the powers and authority granted under the laws of the State of Arizona.

Shiela Schmidt, City Attorney

[SIGNATURES CONTINUE ON FOLLOWING PAGE]

“Partnering Agency”

CITY OF GOODYEAR, an Arizona
municipal corporation

Georgia Lord, Mayor

Date:_____

ATTEST:

Darcie McCracken, City Clerk

CERTIFICATION BY LEGAL COUNSEL

In accordance with the requirements of ARIZ. REV. STAT. § 11-952(D), the undersigned Attorney acknowledges that (i) he has reviewed the above agreement on behalf of his client and (ii) as to her client only, has determined that the Agreement is in proper form and is within the powers and authority granted under the laws of the State of Arizona.

Roric V. Massey, City Attorney

[SIGNATURES CONTINUE ON FOLLOWING PAGE]

“Partnering Agency”

COUNTY OF MARICOPA, ARIZONA

By:_____

Name:_____

Title:_____

Date:_____

ATTEST:

Fran McCarroll, Clerk of the Board

CERTIFICATION BY LEGAL COUNSEL

In accordance with the requirements of ARIZ. REV. STAT. § 11-952(D), the undersigned Attorney acknowledges that (i) she/he has reviewed the above agreement on behalf of her/his client and (ii) as to her/his client only, has determined that the Agreement is in proper form and is within the powers and authority granted under the laws of the State of Arizona.

County Attorney

**EXHIBIT A
TO
INTERGOVERNMENTAL AGREEMENT
AMONGST
THE CITY OF AVONDALE, THE CITY OF BUCKEYE,
THE CITY OF GOODYEAR AND THE COUNTY OF MARICOPA, ARIZONA
FOR THE SOUTHWEST FAMILY ADVOCACY CENTER**

[Gift Agreement]

See following pages.

**SOUTHWEST FAMILY ADVOCACY CENTER
GIFT AGREEMENT**

THIS GIFT AGREEMENT (this "Agreement") is made as of _____, 201_, by and between the City of Avondale ("Avondale"), an Arizona municipal corporation, and the following donor ("Donor"):

Name: _____
Address: _____

Home Phone: _____
Other Phone: _____
Facsimile: _____
E-Mail: _____

Avondale serves as the day-to-day manager for the Southwest Family Advocacy Center (the "Center").

The Center gratefully acknowledges Donor's thoughtful generosity in assisting the Center to fulfill its mission to prevent, protect and treat victims of sexual or physical abuse and victims of domestic violence (the "Mission").

1. Cash Gift Pledge. Donor hereby agrees to make a cash gift to the Center in the amount of \$ _____. Donor agrees to pay this cash pledge in full on or before the ____ day of _____, 201_, in the following manner (please complete all that apply):

- ☐ by \$_____ cash enclosed;
- ☐ by \$_____ check enclosed, made payable to "City of Avondale";
- ☐ by \$_____ credit card charge as follows:

☐ Visa ☐ MasterCard ☐ American Express ☐ Discover

Credit Card No. _____

Exp. Date: _____ 3-Digit Code: _____

- ☐ by \$_____ cash or check in the following payments:

Regular Payments of \$_____ each:

Monthly beginning on _____, 2_____
Quarterly beginning on _____, 2_____
Semi-annually beginning on _____, 2_____
Annually beginning on _____, 2_____

OR

Modified Payment Schedule:

1st payment of \$_____ on _____, 2_____
2nd payment of \$_____ on _____, 2_____
3rd payment of \$_____ on _____, 2_____
4th payment of \$_____ on _____, 2_____

☐ by bequest or other planned gift in the amount of \$_____, as follows:

_____.

Recognizing that the Center is relying upon Donor's commitment in order to continue to carry out its Mission, and acknowledging the importance of the timeliness of such payments, Donor agrees to consult with the Center in the event it is deemed necessary or advisable to modify the above payment schedule.

2. Personal Property Gift Pledge. Donor hereby agrees to make a gift to the Center of personal property described as follows: _____

_____.

3. Further Assurances. Avondale and Donor each agrees to perform all further acts and to execute, acknowledge and deliver any additional documents or instruments that are necessary to carry out the provisions of this Agreement.

4. Representations and Warranties. Donor represents and warrants that:

(i) Authorization. All actions on the part of Donor which are required for the execution, delivery and performance by Donor of this Agreement have been duly and effectively taken. Donor has full power and authority to enter into and perform its obligations under this Agreement. The person(s) executing this Agreement on behalf of Donor have full power and authority to do so and to perform every act and to execute and deliver every document and instrument necessary or appropriate to consummate the transaction contemplated hereby.

(ii) Binding Obligation. This Agreement constitutes a legal, valid and binding obligation of Donor, enforceable against Donor in accordance with its terms.

(iii) Title. Donor has good title to all property being donated pursuant to this Agreement and, upon execution of this Agreement; Avondale shall have and receive good and marketable title to the donated property free and clear of any liens.

(iv) No Other Agreement. Donor has not entered into, there is not existing as of the date of this Agreement, and Donor covenants that it shall not hereafter enter into, any other agreement, written or oral, under which Donor is obligated to donate, sell or lease to any third party the property being donated pursuant to this Agreement.

(v) Litigation. Donor has no knowledge of any pending or threatened condemnation or similar proceeding affecting the property being donated pursuant to this Agreement or any portion thereof.

5. Permitted Purposes. Donor acknowledges that Avondale will make use of Donor's gift for the Center's benefit to further its Mission. Donor may specify below one or more purposes for use of the gift, provided that such purpose(s) are consistent with the Center's Mission, which the Center shall determine in its sole discretion. Unless otherwise specified below, the Center shall have the sole discretion to determine the use of the gift in accordance with the Mission and the Center's governing documents.

☐ I desire that my gift be used for the following purpose(s): _____

_____.

6. Donor Recognition. All information concerning the identity of the Donor and information regarding the gift made by Donor will be considered information subject to disclosure in accordance with the Arizona Public Records Law. If Donor requests that his/her identity and gift amount(s) remain confidential, to the extent permitted by law, the Center will attempt to prohibit and or limit the disclosure of such information. If Donor desires to keep his/her identity and gift information confidential, please indicate so by checking the box below:

☐ Donor requests that the Center, to the extent permitted by law, keep the Donor's identity and information regarding any gift confidential.

7. Tax Treatment. THE CENTER MAKES NO REPRESENTATIONS TO DONOR WITH RESPECT TO THE STATE OR FEDERAL TAX TREATMENT OF DONOR'S GIFT. DONOR IS ADVISED TO SEEK THE ADVICE OF DONOR'S ATTORNEY AND TAX ADVISOR REGARDING ALL ASPECTS OF DONOR'S GIFT.

8. Governing Law. This Agreement shall be governed by the laws of the State of Arizona, without regard to conflict of law principles and any suit pertaining to this Agreement may be brought only in courts in Maricopa County, Arizona.

9. Entire Agreement; Amendments. The parties understand and agree that this Agreement (i) sets forth the entire agreement between the parties with respect to Donor's gift;

(ii) supersedes all prior discussions, agreements and understandings, whether written or oral, relating to the subject matter hereof; (iii) may be amended or modified only by a subsequent writing which is signed by both parties; and (iv) is binding upon Donor and the Center, and their respective heirs, personal representatives and successors.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date and year first set forth above.

“City”

CITY OF AVONDALE, an Arizona
municipal corporation

Charles A. Montoya, City Manager

ATTEST:

Marcella Carrillo, City Clerk

(ACKNOWLEDGMENT)

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

This instrument was acknowledged before me on _____, 201_,
by Charles A. Montoya, the City Manager of the **CITY OF AVONDALE**, an Arizona municipal
corporation, on behalf of the City of Avondale.

(affix notary seal here)

Notary Public in and for the State of Arizona

[SIGNATURES CONTINUE ON FOLLOWING PAGE]

STATE OF _____)
) ss.
COUNTY OF _____)

Notary Public in and for the State of _____

5

**EXHIBIT B
TO
INTERGOVERNMENTAL AGREEMENT
AMONGST
THE CITY OF AVONDALE, THE CITY OF BUCKEYE,
THE CITY OF GOODYEAR AND THE COUNTY OF MARICOPA, ARIZONA
FOR THE SOUTHWEST FAMILY ADVOCACY CENTER**

[Charitable Donation Receipt]

See following page.



2333 N. Pebble Creek Pkwy Suite A-200

Goodyear, AZ 85395

623-333-7900 www.swfac.org

11465 W. Civic Center Dr.

Avondale, AZ 85323

623-333-1000 www.avondale.org

Charitable Donation Receipt

Donor Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Email: _____

Amount of cash contribution: \$ _____

Value of donated property: \$ _____

(Must be estimated by donor)

Description of donated property: _____

I _____ acknowledge receipt of the aforementioned donation and I state

that neither the SWFAC nor the city of Avondale has provided any goods or services to the donor in return for the contribution.

Signature of SWFAC Employee

Date

Signature of Witness

Date

(In order for this form to be valid it must have two signatures.)

THE CITY OF AVONDALE AND THE SWFAC MAKES NO REPRESENTATIONS TO DONOR WITH RESPECT TO THE STATE OR FEDERAL INCOME TAX TREATMENT OF DONOR'S GIFT. DONOR IS ADVISED TO SEEK THE ADVICE OF DONOR'S ATTORNEY AND TAX ADVISOR REGARDING ALL ASPECTS OF DONOR'S GIFT.



CITY COUNCIL AGENDA

SUBJECT:

Resolution 3520-219 - Third Amendment to the
2016-2017 HOME Intergovernmental
Agreement

MEETING DATE:

2/4/2019

TO: Mayor and Council

FROM: Christopher Lopez, Neighborhood and Family Services Director, (623) 333-2711

THROUGH: Charles A. Montoya, City Manager, (623) 333-1016

PURPOSE:

City Council will consider a request to adopt a Resolution authorizing the Third Amendment to the 2016-2017 Intergovernmental Agreement with Maricopa County to extend the term of the agreement and authorize the Mayor or City Manager and City Clerk to execute the necessary documents. The Council will take the appropriate action.

BACKGROUND:

In May, 2005 the City Council adopted Resolution 2485-05 which allowed the City to enter into the Maricopa HOME Consortium Intergovernmental Agreement with Maricopa County and other municipalities in the Valley. The agreement resulted in the City becoming a member of the Maricopa HOME Consortium, and entitles the City to a portion of the Consortium's annual allocation of HOME funds from the US Department of Housing and Urban Development (HUD). The original agreement, which secures the City's membership in the Consortium, has been renewed in subsequent years, and remains in effect.

In addition to the Maricopa HOME Consortium Intergovernmental Agreement, a separate IGA with Maricopa County is also required for the City to receive an annual share of the total HOME allocation. This second IGA with Maricopa County identifies the total HOME funds to be provided and the activities that the City will undertake with these funds. The IGA also stipulates the regulations and policies that each party must adhere to in order to comply with all Federal requirements.

DISCUSSION:

This IGA has been amended twice previously: Once to secure the City's 2017-2018 HOME allocation; and second to secure the City's 2018-2019 HOME Consortium allocation. The requested third amendment will extend the deadline to expend and request reimbursement for the City's 2016-2017 allocation to September 30, 2019. All other provisions will remain the same. Approval of this amendment will allow staff to complete the scope of work, reconcile project finances and submit a final reimbursement request to Maricopa County.

BUDGET IMPACT:

This third amendment will not have any budgetary impact, and will only extend the term of the agreement.

RECOMMENDATION:

Staff recommends that the City Council adopt a Resolution authorizing the Third Amendment to the 2016-2017 Intergovernmental Agreement with Maricopa County to allow the City to extend the expenditure deadline for 2016-2017 funds to September 30, 2019 and authorize the Mayor or City Manager and City Clerk to execute the necessary documents.

ATTACHMENTS:**Description**

[Resolution](#)

RESOLUTION NO. 3520-219

A RESOLUTION OF THE COUNCIL OF THE CITY OF AVONDALE, ARIZONA, APPROVING THE THIRD AMENDMENT TO THE INTERGOVERNMENTAL AGREEMENT WITH MARICOPA COUNTY RELATING TO THE HOME INVESTMENT PARTNERSHIP PROGRAM.

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF AVONDALE as follows:

SECTION 1. The Third Amendment to the FY 2016-2017 Intergovernmental Agreement with Maricopa County, administered by its Human Services Department, relating to financial assistance provided to eligible first-time homebuyers within the City of Avondale through the HOME Investment Partnership Program, as subrecipient and member of the HOME Consortium (the “Amendment”) is hereby approved in substantially the form and substance attached hereto as Exhibit A and incorporated herein by reference.

SECTION 2. The Mayor, the City Manager, the City Clerk and the City Attorney are hereby authorized and directed to take all steps necessary to cause the execution of the Amendment and to carry out the purpose and intent of this Resolution.

PASSED AND ADOPTED by the Council of the City of Avondale, Arizona, February 4, 2019.

Kenneth N. Weise, Mayor

ATTEST:

Marcella Carrillo, City Clerk

APPROVED AS TO FORM:

Andrew J. McGuire, City Attorney

EXHIBIT A
TO
RESOLUTION NO. 3520-219

[Amendment]

See following pages.



AMENDMENT TO THE
INTERGOVERNMENTAL AGREEMENT
BETWEEN
MARICOPA COUNTY
ADMINISTERED BY ITS
HUMAN SERVICES DEPARTMENT
AND
CITY OF AVONDALE



- I. Maricopa County ("County") by and through the Maricopa County Human Services Department and the City of Avondale ("City") entered into a financial Intergovernmental Agreement ("IGA" or "Agreement") on or about March 9, 2017. The Agreement effective date is July 1, 2016 through March 9, 2019. The County provided the City \$134,098 in HOME Investment Partnerships Program funds from the U.S. Department of Housing and Urban Development (HUD) to provide single family homebuyer assistance (down payment and closing costs assistance) and single family housing rehabilitation programs. The funding expenditure period for the 2016 Work Statement will expire March 9, 2019. The County and the City may be referred to individually as "Party" or collectively as "Parties."

The Parties executed Amendment No. 1 on or about November 3, 2017 to add a 2017 Work Statement and increase funding by \$134,240, totalling \$268,338. The funding expenditure period for the 2017 Work Statement will expire on September 30, 2021. On or about October 18, 2018, the Parties executed Amendment No. 2, which added two (2) 2018 Work Statements and increased the funding amount by \$210,065, totalling \$478,403. The expenditure period for the 2018 Work Statements will expire on September 30, 2022.

- II. The Parties now wish to amend the Agreement as follows (Amendment No. 3):
- A. Extend the expenditure period for the 2016 Work Statement from March 9, 2019 to September 30, 2019. Extending the expenditure period will provide the City with additional time to complete the 2016 Work Statment. By doing so, the Parties also agree that all work performed or costs incurred or expended under the previously approved Work Statements shall remain reimbursable under the terms of the Agreement and the Amendments.
- III. This Agreement is subject to A.R.S. §38-511. The foregoing paragraphs, contain all the changes made by this Amendment. All other terms and conditions of the original agreement remain the same and in full force and effect as approved and amended.

IN WITNESS THEREOF, the Parties have signed this Amendment:

APPROVED BY:
CITY OF AVONDALE

APPROVED BY:
MARICOPA COUNTY

Date: _____

Attested To:

City Clerk

Chairman, Board of Supervisors

Date: _____

Attested To:

Fran McCarroll, Clerk of the Board

IN ACCORDANCE WITH A.R.S. §§ 11-952, 11-201, AND 11-251, THIS AGREEMENT HAS BEEN REVIEWED BY THE UNDERSIGNED DEPUTY COUNTY ATTORNEY, AND, IN ACCORDANCE WITH A.R.S. § 11-952, THIS AGREEMENT HAS BEEN REVIEWED BY THE UNDERSIGNED ATTORNEY FOR SUBRECIPIENT ON BEHALF OF SUBRECIPIENT, AND, AS TO THEIR RESPECTIVE CLIENTS ONLY, EACH ATTORNEY HAS DETERMINED THAT THIS AGREEMENT IS IN PROPER FORM AND WITHIN THE POWER AND AUTHORITY GRANTED UNDER THE LAWS OF THE STATE OF ARIZONA.

CITY OF AVONDALE

MARICOPA COUNTY

BY: _____
City AttorneyBY: _____
Deputy County Attorney

Date: _____

Date: _____



CITY COUNCIL AGENDA

SUBJECT:

Resolution 3518-219 - Tohono O'odham Nation
Grant Acceptance

MEETING DATE:

2/4/2019

TO: Mayor and Council

FROM: Cindy Blackmore, Public Works Director, 623-333-4410

THROUGH: Charles A. Montoya, City Manager, (623) 333-1016

PURPOSE:

Staff is requesting City Council adopt a Resolution authorizing the acceptance of grant funding from the Tohono O'odham Nation (TON) in the amount of \$25,000 for a Public Works Traveling Tap Trailer and authorize the Mayor, or City Manager and City Clerk to execute the necessary documents.

BACKGROUND:

In 2002, Arizona voters approved Proposition 202. The compact between the State of Arizona and Indian gaming communities allows a compacting tribe to distribute twelve percent of its total annual contribution to cities, towns, or counties for the benefit of the general public. The Tohono O'odham Nation chose to contribute directly to local governments and on May 3, 2018 issued a request for Funding Proposals from Arizona cities, towns, counties and non-profit organizations.

DISCUSSION:

The Public Works Department submitted a Funding Proposal to the Tohono O'odham Nation for a traveling tap trailer and was subsequently awarded a grant in the amount of \$25,000. The Water Education Traveling Tap Trailer will be a portable drinking water station for public use during community events. The trailer will provide cooled, fresh Avondale tap water ready for the public to fill their reusable water bottle, promoting the local water source and cutting down on waste. Staff will accompany the trailer, providing an opportunity for face-to-face interaction with residents.

The Water Education Traveling Tap Trailer will be wrapped in a custom design promoting conservation and water quality. It will feature prominent logos for both the City of Avondale and for the Tohono O'odham Nation, showcasing our partnership in environmental stewardship and recognition of the source funding. The Water Education Traveling Tap Trailer will be a highly visible, mobile tool for community outreach and education, promoting the quality and taste of Avondale's tap water while combating the proliferation of disposable plastic water bottles, which end up in landfills and all too often littering our landscape.

BUDGET IMPACT:

The grant funding does not require a funding match from the City. Any ancillary costs associated with the operation of the trailer will come from Water Administration, Special Event Supplies/Equipment, 501-9110-00-7114 appropriations, which are subject to annual budget authority.

RECOMMENDATION:

Staff recommends that the City Council adopt a Resolution authorizing the acceptance of grant funding from the Tohono O'odham Nation (TON) in the amount of \$25,000 for a Public Works Traveling Tap Trailer and authorize the Mayor, or City Manager and City Clerk to execute the necessary documents.

ATTACHMENTS:**Description**

[Grant-in-Aid Agreement](#)

[Resolution](#)

**GRANT-IN-AID AGREEMENT
BETWEEN
THE TOHONO O’ODHAM NATION
AND
CITY OF AVONDALE**

THIS GRANT-IN-AID AGREEMENT (“Agreement”) is between the Tohono O’odham Nation, a federally recognized Indian tribe (the “Nation”), and the CITY OF AVONDALE, a political subdivision of the State of Arizona (“Recipient”).

RECITALS

The Nation desires to convey to Recipient a portion of its annual 12% local revenue-sharing contribution (“Contribution”) to be paid to local governments for governmental services that benefit the general public.

The Constitution of the Tohono O’odham Nation, Article VI, Section 1(f) provides that the Tohono O’odham Legislative Council is authorized to negotiate and conclude agreements on behalf of the Nation with Federal, State, and local governments.

The Constitution of the Tohono O’odham Nation Article VII, Section 2(f) provides that the Chairman of the Nation is the official representative of the Nation; and as such, upon passage of a Resolution by the Legislative Council approving of any agreement with Federal, State, and local governments, the Chairman is authorized to sign such agreements on behalf of the Nation.

Under A.R.S. § 5-601.02(H)(4), Recipient may receive monies from the Nation for services identified by the Nation that benefit the general public, including public safety, mitigation of gaming impacts, and promotion of commerce and economic development.

The Recipient is authorized by A.R.S. § 11-951 through § 11-954 to enter into agreements for joint or cooperative actions with public agencies.

Now, therefore, in consideration of the mutual promises contained herein, the parties hereby agree as follows:

AGREEMENT

- 1. Purpose.** The purpose of this Agreement is to set forth the rights and responsibilities of the parties with respect to the payment and distribution of the Contribution, as hereinafter defined. The Recipient may enter into a separate agreement with any subrecipient identified herein.
- 2. Contribution.** On execution of this Agreement, the Nation will issue payment to the Recipient in the amount described in Schedule A (the “Contribution”) for the purpose(s) detailed in Schedule A.

3. Disbursement of Contribution.

- a. **Disbursing Contribution and Recordkeeping.** The Recipient is responsible for disbursing the Contribution consistent with this Agreement. Within a reasonable time following receipt of the Contribution from the Nation, the Recipient shall distribute the Contribution per Recipient policies and procedures governing the disbursement of these funds. The Recipient shall keep and maintain records relating to the disbursements and this Agreement.
- b. **Post-Disbursement Responsibilities.** When applicable, the parties agree that the Recipient may be acting as a conduit for distribution of the Contribution to a non-Recipient entity. Upon distribution of the Contribution to a non-Recipient entity as identified in Section 2 of this Agreement, the Recipient shall have no further responsibility to the Nation with respect to such funds or the use thereof by the non-Recipient entity. Therefore, upon the Recipient's disbursement of the Contribution to a non-Recipient entity as provided in Section 2, the Nation shall release the Recipient from any and all claims, demands, debts, liabilities, or obligations that may arise in the event that a non-Recipient entity fails to expend the Contribution in accord with Section 2. The Nation further agrees that the Recipient shall have no obligation to reimburse the Nation the amount of the Contribution after the Recipient disburses the Contribution to a non-Recipient entity and that the Nation shall look solely to the non-Recipient entity for repayment of the Contribution if the Contribution is not used for the intended purposes.

4. Term and Termination.

- a. **Effective Date.** This Agreement shall become effective when all parties have signed. The date this Agreement is signed by the last party, as indicated by the date associated with the party's signature, shall be deemed the Effective Date.
- b. **Term.** This Agreement shall commence upon the Effective Date and will continue for twelve (12) months unless terminated earlier ("End Date"). The Nation, in its discretion, may approve in writing any request by Recipient for a no-cost extension, including amending the End Date and adjusting any affected reporting requirements.
- c. **Termination by Nation.** The Nation may terminate this Agreement with or without cause at any time by providing the Recipient fifteen (15) days advance notice in writing. If the Nation terminates this Agreement after the Recipient receives the Contribution but before the Recipient disbursed the Contribution in accord with Section 2, the Nation shall include in the notice of termination specific instructions regarding disposition of the Contribution.
- d. **Termination by Recipient.** All parties acknowledge that this Agreement may be subject to cancellation by the Recipient per A.R.S. § 38-511.

- 5. **Money Unclaimed.** If the Recipient fails to accept the Contribution on or before February 15, 2019, this Agreement will be deemed to have been terminated by the Recipient and the Nation will award the Agreement Contribution to another applicant.

- 6. Monitoring, Review, and Audit.** The Nation may monitor and review Recipient's use of the Contribution, performance of the project funded thereunder, and compliance with this Agreement, which may include onsite visits to assess Recipient's governance, management and operations, to discuss Recipient's program and finances, and review relevant financial and other records and materials. In addition, the Nation may conduct audits, including onsite audits, at any time during the term of this Agreement, and within three years after the Contribution has been fully spent. Any onsite visit or audit shall be conducted at the Nation's expense, following prior written notice, during normal business hours, and no more than once during any twelve (12) month period.
- 7. Dispute Resolution.** The parties mutually agree that any disputes arising pursuant to this Agreement shall be resolved through informal dispute resolution. For all disputes arising under this Agreement the Nation and the Recipient shall first attempt to negotiate a resolution. All disputes that cannot be resolved through informal dispute resolution shall be resolved in the Courts of the Nation, subject to the laws of the Nation.
- 8. Reports:** If applicable, the Recipient will submit a final report to the Nation within 30 days of the End Date of this Agreement explaining how and when the funds provided under this Agreement were used. This report may be in the form of an affidavit signed by an officer of the Recipient and may be accompanied by supporting documentation. The report must address: (i) changes in the scope of the project or purchase funded under this Agreement, (ii) the total expenses under the project or purchase funded by the Agreement, (iii) a brief description of who has benefited from this Agreement, and (iv) the Recipient's next steps with regard to the project or purchase made under this Agreement.
- 9. Notices.** Any notice, consent or other communication required or permitted under this Agreement shall be in writing and shall be deemed received at the time it is personally delivered, on the day it is sent by facsimile transmission, on the second day after its deposit with any commercial air courier or express service or if mailed, three (3) days after the notice is deposited in the United States mail addressed as follows:

If to the Nation:

Edward D. Manuel, Chairman
Tohono O'odham Nation
P.O. Box 837
Sells, Arizona 85634
Fax: 520-383-3379

With copy to:

Executive Counsel
Tohono O'odham Nation
P.O. Box 837
Sells, Arizona 85634
Fax: 520-383-3379

If to the Recipient:

City of Avondale
Charles Montoya, City Manager]
11465 West Civic Center Drive
Avondale, Arizona 85323
Fax: 623-333-0110

With copy to:

Gust Rosenfeld, P.L.C.
Andrew J. McGuire, City Attorney
One East Washington Street, Suite 1600
Phoenix, AZ 85004-2553
Fax: 602-254-4878

Any time period stated in a notice shall be computed from the time the notice is deemed received. Either party may change its mailing address or the person to receive notice by notifying the other party as provided in this paragraph.

10. Entire Agreement, and Amendments. This Agreement constitutes the entire understanding and agreement of the parties. This Agreement integrates all of the terms and conditions mentioned herein or incident hereto and supersedes all negotiations or previous agreements between the parties with respect to all or any part of the subject matter hereof.

11. Relationship. The relationship of the parties to this Agreement is determined solely by the provisions of this Agreement. The parties do not intend to create any agency, partnership, joint venture, trust, fiduciary or other relationship which would impose liability upon one party for the act or failure to act of the other party.

12. No Waiver. Except as otherwise expressly provided in this Agreement, any failure or delay by any party in asserting any of its rights or remedies as to any default, shall not operate as a waiver of any default, or of any such rights or remedies, or deprive any such party of its right to institute and maintain any actions or proceedings which it may deem necessary to protect, assert or enforce any such rights or remedies.

13. Severability. If any provision of this Agreement shall be found invalid or unenforceable, the remaining provisions of this Agreement shall not be affected thereby and shall be valid and enforceable to the fullest extent permitted by law.

14. Counterparts and Electronic Signatures. This Agreement is executed in three (3) duplicate originals. Except as may be prohibited by applicable law or regulation, this Agreement and any amendment may be signed in counterparts, by facsimile, PDF, or other electronic means, each of which will be deemed an original and all of which when taken together will constitute one agreement. Facsimile and electronic signatures will be binding for all purposes.

15. Sovereign Immunity. Nothing in this Agreement shall be deemed a waiver of either party's sovereign immunity in any forum or jurisdiction.

This Agreement is signed on behalf of the parties:

TOHONO O'ODHAM NATION

Edward D. Manuel, Chairman

Date

CITY OF AVONDALE

Charles A. Montoya, City Manager

Date

Schedule A

Program	Project	Contribution
City of Avondale, Public Works Department	Traveling Tap Trailer	<u>\$25,000</u>
	Total	\$25,000

RESOLUTION NO. 3518-219

A RESOLUTION OF THE COUNCIL OF THE CITY OF AVONDALE, ARIZONA, ACCEPTING A GRANT AWARD FROM THE TOHONO O'ODHAM NATION FOR A TRAVELING TAP TRAILER AND AUTHORIZING THE EXECUTION OF THE RESULTING GRANT AGREEMENT AND ANY RELATED DOCUMENTS.

WHEREAS, the Tohono O'odham Nation (the "Nation") accepted proposals for Proposition 202 funding from state and local agencies for projects in the following priority areas: (a) education; (b) health care; (c) public safety; (d) child advocacy; (e) economic development; and (f) cultural and environmental development and protection; and

WHEREAS, the City of Avondale, Arizona (the "City"), submitted a grant proposal requesting funds for a traveling tap trailer; and

WHEREAS, the Nation has awarded the City a grant in the amount of \$25,000; and

WHEREAS, the City Council desires to accept the award of the grant to the City, and authorize the execution of the resulting grant agreement and any related documents.

BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF AVONDALE, ARIZONA, as follows:

Section 1. The recitals above are hereby incorporated as if fully set forth herein.

Section 2. The City Council hereby (i) authorizes the acceptance of the grant award to the City in the amount of \$25,000 for a traveling tap trailer and (ii) authorizes the execution of the grant agreement (the "Grant Agreement") in substantially the form and substance attached hereto as Exhibit A and incorporated herein by reference and any related documents.

Section 3. The Mayor, the City Manager, the City Clerk and the City Attorney are hereby authorized and directed to execute and submit the Grant Agreement and any other necessary or desirable instruments in connection with the grant proposal and to take all steps necessary to carry out the purpose and intent of this Resolution.

[SIGNATURES ON FOLLOWING PAGE]

PASSED AND ADOPTED by the Council of the City of Avondale, Arizona,
February 4, 2019.

Kenneth N. Weise, Mayor

ATTEST:

Marcella Carrillo, City Clerk

APPROVED AS TO FORM:

Andrew J. McGuire, City Attorney

EXHIBIT A
TO
RESOLUTION NO. 3518-219

[Grant Agreement]

See following pages.

**GRANT-IN-AID AGREEMENT
BETWEEN
THE TOHONO O’ODHAM NATION
AND
CITY OF AVONDALE**

THIS GRANT-IN-AID AGREEMENT (“Agreement”) is between the Tohono O’odham Nation, a federally recognized Indian tribe (the “Nation”), and the CITY OF AVONDALE, a political subdivision of the State of Arizona (“Recipient”).

RECITALS

The Nation desires to convey to Recipient a portion of its annual 12% local revenue-sharing contribution (“Contribution”) to be paid to local governments for governmental services that benefit the general public.

The Constitution of the Tohono O’odham Nation, Article VI, Section 1(f) provides that the Tohono O’odham Legislative Council is authorized to negotiate and conclude agreements on behalf of the Nation with Federal, State, and local governments.

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Under A.R.S. § 5-601.02(H)(4), Recipient may receive monies from the Nation for services identified by the Nation that benefit the general public, including public safety, mitigation of gaming impacts, and promotion of commerce and economic development.

The Recipient is authorized by A.R.S. § 11-951 through § 11-954 to enter into agreements for joint or cooperative actions with public agencies.

Now, therefore, in consideration of the mutual promises contained herein, the parties hereby agree as follows:

AGREEMENT

- 1. Purpose.** The purpose of this Agreement is to set forth the rights and responsibilities of the parties with respect to the payment and distribution of the Contribution, as hereinafter defined. The Recipient may enter into a separate agreement with any subrecipient identified herein.
- 2. Contribution.** On execution of this Agreement, the Nation will issue payment to the Recipient in the amount described in Schedule A (the “Contribution”) for the purpose(s) detailed in Schedule A.

3. Disbursement of Contribution.

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If to the Nation:

Edward D. Manuel, Chairman
Tohono O'odham Nation
P.O. Box 837
Sells, Arizona 85634
Fax: 520-383-3379

With copy to:

Executive Counsel
Tohono O'odham Nation
P.O. Box 837
Sells, Arizona 85634
Fax: 520-383-3379

If to the Recipient:

City of Avondale
Charles Montoya, City Manager]
11465 West Civic Center Drive
Avondale, Arizona 85323
Fax: 623-333-0110

With copy to:

Gust Rosenfeld, P.L.C.
Andrew J. McGuire, City Attorney
One East Washington Street, Suite 1600
Phoenix, AZ 85004-2553
Fax: 602-254-4878

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11. Relationship. The relationship of the parties to this Agreement is determined solely by the provisions of this Agreement. The parties do not intend to create any agency, partnership, joint venture, trust, fiduciary or other relationship which would impose liability upon one party for the act or failure to act of the other party.

12. No Waiver. Except as otherwise expressly provided in this Agreement, any failure or delay by any party in asserting any of its rights or remedies as to any default, shall not operate as a waiver of any default, or of any such rights or remedies, or deprive any such party of its right to institute and maintain any actions or proceedings which it may deem necessary to protect, assert or enforce any such rights or remedies.

13. Severability. If any provision of this Agreement shall be found invalid or unenforceable, the remaining provisions of this Agreement shall not be affected thereby and shall be valid and enforceable to the fullest extent permitted by law.

14. Counterparts and Electronic Signatures. This Agreement is executed in three (3) duplicate originals. Except as may be prohibited by applicable law or regulation, this Agreement and any amendment may be signed in counterparts, by facsimile, PDF, or other electronic means, each of which will be deemed an original and all of which when taken together will constitute one agreement. Facsimile and electronic signatures will be binding for all purposes.

15. Sovereign Immunity. Nothing in this Agreement shall be deemed a waiver of either party's sovereign immunity in any forum or jurisdiction.

This Agreement is signed on behalf of the parties:

TOHONO O'ODHAM NATION

Edward D. Manuel, Chairman

Date

CITY OF AVONDALE

Charles A. Montoya, City Manager

Date

Schedule A

Program	Project	Contribution
City of Avondale, Public Works Department	Traveling Tap Trailer	<u>\$25,000</u>
	Total	\$25,000



CITY COUNCIL AGENDA

SUBJECT:

Public Hearing and Ordinance 1684-219 -
Revised Harvard-Tobin (Verde Trails II)
Annexation

MEETING DATE:

2/4/2019

TO: Mayor and Council

FROM: Tracy Stevens, Development & Engineering Services Director (623) 333-4012

THROUGH: Charles A. Montoya, City Manager, (623) 333-1016

PURPOSE:

City Council will consider a request by Ms. Carolyn Oberholtzer, with Bergin, Frakes, Smalley, & Oberholtzer, PLLC on behalf of property owner Tobin Living Trust, to adopt an Ordinance annexing approximately 42 acres of land located east of the southeast corner of Avondale Boulevard and Broadway Road. The Council will take appropriate action.

BACKGROUND:

The subject property consists of seven (7) undeveloped parcels currently used for farming. The 42-acre property, upon annexation and rezoning, is planned to be an extension of the Verde Trails project, a proposed master planned community which is adjacent to the site's eastern boundary.

The property is currently within Maricopa County and zoned RU-43 (Rural-43). It is surrounded by land in Maricopa County to the north and west zoned RU-43 and land in the City of Avondale to the south and east zoned PAD (Planned Area Development). After the property is annexed, it will be zoned RR-43 (Rural Residential). There is a concurrent request to rezone the property from RR-43 to Planned Area Development (PAD).

City Staff and City Council have also had preliminary discussions with the Harvard Investment Group pertaining to the Verde Trails project for a formation of a Community Facilities District (CFD) which has been filed separately with the City.

DISCUSSION:

At the November 19, 2018 Council meeting, Council approved the authorization to proceed with the proposed annexation. In accordance with the annexation process, Staff filed a blank petition and affidavit with Maricopa County on November 28, 2018. However, in order to meet annexation process time frames, Staff filed a withdrawal of the blank petition and affidavit and filed a revised blank petition and affidavit on December 19, 2018 in order to hold the public hearing on January 14, 2019. The applicant filed a request to waive the 45-day waiting period in conjunction with the blank petition and affidavit withdrawal. Additionally, the applicant revised the legal description and map to remove a portion of the north half of Broadway Road that is not contiguous to the property from this annexation request, as that portion of right-of-way is not eligible for annexation as part of this request per State requirements.

Departments that provide City services are aware of the request and have not voiced any concerns with the expansion of City limits in this area.

BUDGET IMPACT:

No budgetary impact.

RECOMMENDATION:

Staff is recommending Council adoption of an Ordinance to annex approximately 42 acres of land located east of the southeast corner of Avondale Boulevard and Broadway Road.

ATTACHMENTS:

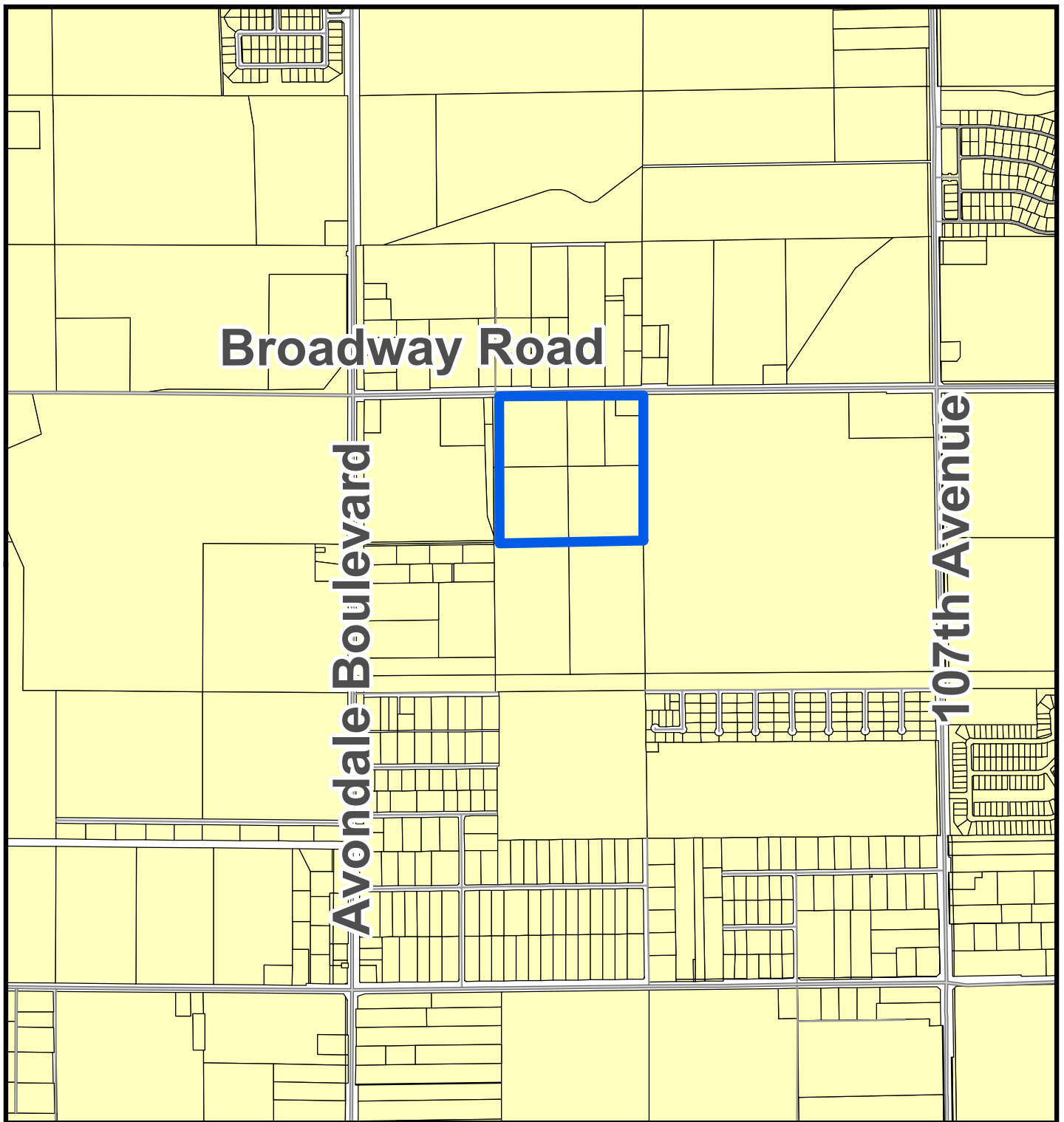
Description

[Vicinity Map](#)

[Revised Legal Description and Map Exhibit](#)

[Revised Blank Petition and Affidavit](#)

[Ordinance](#)



Vicinity Map



 Subject Property



**VERDE TRAILS UNIT II - ANNEXATION
LEGAL DESCRIPTION**

PARCEL 1

A portion of land being situated within the Southwest Quarter of Section 19, together with a portion of land as described in the Corrected Warranty Deed, Document 2013-0510175, Maricopa County Records, being situated within the Northwest Quarter of Section 30, all lying within Township 1 North, Range 1 East of the Gila and Salt River Meridian, Maricopa County, Arizona, being more particularly described as follows:

COMMENCING at a found brass cap in hand hole accepted as the Northwest Corner of said Section 30, from which a found brass cap in hand hole accepted as the West Quarter Corner thereof bears South 00°08'28" East, 2620.61 feet;

Thence along the north line of said Northwest Quarter, North 88°42'23" East, 1248.83 feet to the Northwest corner of the Northeast Quarter of said Northwest Quarter, being the Northwest corner of Parcel 101-42-005-D within Document 2013-0510175, (being the Southeast corner of General Land Office, Lot 4, as described in Document 2005-1264576 Maricopa County Records) also being the **POINT OF BEGINNING**;

Thence along the West line of the Southeast Quarter of the Southwest Quarter of said Section 19, as described in Docket 10723, page 0330, Maricopa County Records, North 00°46'52" East, 55.04 feet to the north line of the south 55.00 feet of the Southeast Quarter of the Southwest Quarter of said Section 19;

Thence along said north line, North 88°42'23" East, 323.68 feet to the east line of the West Half of the West Half of the Southeast Quarter of the Southwest Quarter of said Section 19, as described in Document 2015-0841368 Maricopa County Records;

Thence along said east line, South 00°35'04" West, 15.01 feet to the north line of the south 40.00 feet of the Southeast Quarter of the Southwest Quarter of said Section 19;

Thence along said north line, North 88°42'23" East, 971.19 feet to the east line of the Southwest Quarter of said Section 19, as described in Document 2001-0479541, Maricopa County Records;

Thence along said east line, North 00°00'22" West, 15.00 feet to the north line of the south 55.00 feet of the Southeast Quarter of said Section 19;

Thence along said north line, North 89°12'39" East, 230.00 feet to the east line of the west 230.00 feet of the Southeast Quarter of said Section 19;

Thence along said east line, South 00°00'28" East, 55.01 feet to the south line of said Southeast Quarter, being the north line of the corporate limits of the City of Avondale according to Ordinance No. 1274-1107;

Thence along said south line of the Southeast Quarter and said north line of corporate limits, South 89°12'39" West, 230.00 feet to the North Quarter corner of said Section 30;

Thence along the east line of the Northwest Quarter of said Section 30, being the west line of Ordinance No. 1274-1107, South 00°56'08" East, 1324.60 feet to the Southeast corner of the Northeast Quarter of the Northwest Quarter of said Section 30, known as Parcel 101-42-005-N within Document 2013-0510175;

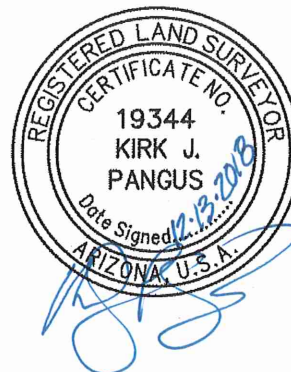
Thence along the South line of the Northeast Quarter of the Northwest Quarter of said Section 30 being the north line of said Ordinance No. 1274-1107, South 89°01'53" West, 1303.45 feet to the Southwest corner of the Northeast Quarter of the Northwest Quarter said Section 30, known as Parcel 101-42-005-P within Document 2013-0510175, being the Northwest corner of said Ordinance No. 1274-1107;

Thence along the west line of the Northeast Quarter of the Northwest Quarter of said Section 30, also being the west line of said Parcel 101-42-005P and Parcel 101-42-005D within said Document 2013-0510175, North 00°35'16" West, 1317.28 feet to the **POINT OF BEGINNING**.

The above described parcels contain a computed area of 1,785,770 sq. ft. (40.9956 acres) more or less and being subject to any easements, restrictions, rights-of-way of record or otherwise.

The description shown hereon is not to be used to violate any subdivision regulation of the state, county and/or municipality or any land division restrictions.

Prepared by: HILGARTWILSON, LLC
2141 E. Highland Avenue, Suite 250
Phoenix, AZ 85016
Project No. 1377
Date October 2018

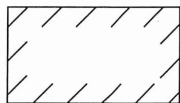


AVONDALE BOULEVARD

S00°08'28"E 2620.61'
(BASIS OF BEARING)



N88°42'23"E
1248.83'
NW CORNER SEC.
30, T1N, R1E
FOUND BRASS CAP
IN HAND HOLE
P.O.C.



PARCEL TO
BE ANNEXED

WEST 1/4 CORNER
SEC. 30, T1N, R1E
FOUND BRASS CAP
IN HAND HOLE

APN: 101-23-013A
DOC. 05-1264576 MCR

APN: 101-42-004E
DOC. 96-0763997
MCR

APN: 101-42-004F
DOC. 01-0783268 MCR

APN:
101-23-007C
DOC. 10723,
PAGE 0330
MCR

APN: 101-23-007D
DOC. 15-0841368 MCR

40' R/W BK. 15,
PG. 30 MCR

APN: 101-23-011B
DOC. 17-0598140
MCR

APN: 101-23-001
DOC. 08-0290187 MCR

N88°42'23"E
323.68'

N88°42'23"E
971.19'

55' L1 L2
BROADWAY ROAD
NW CORNER NE 1/4,
NW 1/4, SEC. 30
FOUND PK NAIL
W/TAG RLS 19344
P.O.B.

40' R/W
BK. 15,
PG. 30 MCR

APN: 101-42-005D
DOC. 13-0510175 MCR

APN: 101-42-005M
DOC. 13-0510175 MCR

PARCEL 1

N00°35'16"W 1317.28'

MATCH SHEET 4

MATCH SHEET 2

P.O.C. - POINT OF COMMENCEMENT
P.O.B. - POINT OF BEGINNING
SHEET 1 OF 4
LINE TABLE SHEET 3 OF 4



PROJ.NO.: 1377

DATE: OCT. 2018

SCALE: N.T.S.

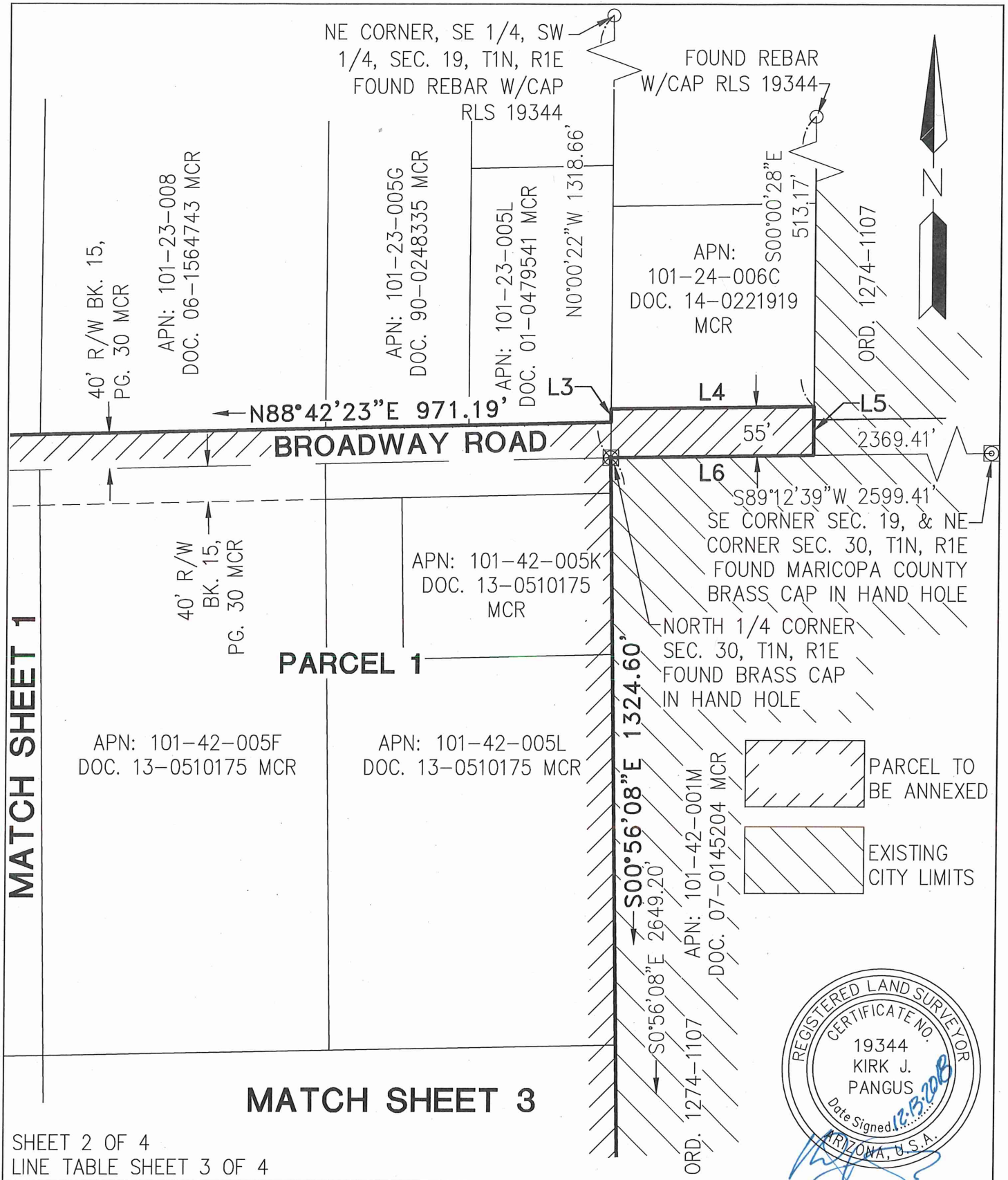
DRAWN BY: JHVD

CHECKED BY: KJP

VERDE TRAILS UNIT II
ANNEXATION
MARICOPA COUNTY, ARIZONA

EXHIBIT

HILGARTWILSON
2141 E. HIGHLAND AVE., STE. 250
PHOENIX, AZ 85016
P: 602.490.0535 / F: 602.368.2436



PROJ.NO.: 1377	VERDE TRAILS UNIT II ANNEXATION MARICOPA COUNTY, ARIZONA	 HILGARTWILSON 2141 E. HIGHLAND AVE., STE. 250 PHOENIX, AZ 85016 P: 602.490.0535 / F: 602.368.2436
DATE: OCT. 2018		
SCALE: N.T.S.		
DRAWN BY: JHVD		
CHECKED BY: KJP	EXHIBIT	

MATCH SHEET 2

MATCH SHEET 4

PARCEL 1

APN: 101-42-005N
DOC. 13-0510175 MCR

SE CORNER NE 1/4,
NW 1/4, SEC. 30
FOUND REBAR
W/CAP RLS 19344

S89°01'53"W 1303.45'

ORD. 1274-1107

APN: 101-42-006C
DOC. 07-0145207 MCR

S00°56'08"E 1324.60'

APN: 101-42-001M
DOC. 07-0145204 MCR

S0°56'08"E 2649.20'

ORD. 1274-1107

PARCEL TO
BE ANNEXED

EXISTING
CITY LIMITS



LINE TABLE

LINE NO.	DIRECTION	LENGTH
L1	N00°46'52"E	55.04'
L2	S00°35'04"W	15.01'
L3	N00°00'22"W	15.00'
L4	N89°12'39"E	230.00'
L5	S00°00'28"E	55.01'
L6	S89°12'39"W	230.00'

CENTER OF SEC. 19,
T1N, R1E FOUND REBAR
W/CAP RLS 19344

SHEET 3 OF 4



PROJ.NO.: 1377

DATE: OCT. 2018

SCALE: N.T.S.

DRAWN BY: JHVD

CHECKED BY: KJP

VERDE TRAILS UNIT II
ANNEXATION
MARICOPA COUNTY, ARIZONA

EXHIBIT

HILGARTWILSON
2141 E. HIGHLAND AVE., STE. 250
PHOENIX, AZ 85016
P: 602.490.0535 / F: 602.368.2436

MATCH SHEET 1



APN: 101-42-004G
DOC. 18-0623265 MCR

APN: 101-42-004F
DOC. 01-0783268 MCR

N00°35'16"W 1317.28'

PARCEL 1

APN: 101-42-005P
DOC. 13-0510175 MCR

MATCH SHEET 3

APN: 101-42-005C
DOC. 07-0145207 MCR

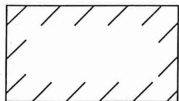
APN: 101-42-003F
DOC. 02-0287531 MCR

SW CORNER NE 1/4,
NW 1/4, SEC. 30
FOUND REBAR
W/CAP RLS 19344

S89°01'53"W 1303.45'

APN: 101-42-006D
DOC. 07-0145207 MCR

ORD. 1274-1107



PARCEL TO
BE ANNEXED



EXISTING
CITY LIMITS

SHEET 4 OF 4



PROJ.NO.:	1377
DATE:	OCT. 2018
SCALE:	N.T.S.
DRAWN BY:	JHVD
CHECKED BY:	KJP

VERDE TRAILS UNIT II
ANNEXATION
MARICOPA COUNTY, ARIZONA

EXHIBIT

HILGARTWILSON
2141 E. HIGHLAND AVE., STE. 250
PHOENIX, AZ 85016
P: 602.490.0535 / F: 602.368.2436

RBLKANNEHARVARTOBIN-10-1-1--
sarabiam

When recorded mail to:

Attn: Development and Engineering Services Department
City of Avondale
11465 W. Civic Center Drive, Suite 110
Avondale, AZ 85323

BLANK ANNEXATION PETITION AND AFFIDAVIT

REVISED HARVARD-TOBIN (VERDE TRAILS II) ANNEXATION

**CITY OF AVONDALE
ANNEXATION PETITION**

TO THE HONORABLE MAYOR AND COUNCIL OF THE CITY OF AVONDALE,
ARIZONA:

We, the undersigned, the owners of one-half or more in value of the real and personal property and more than one-half of the persons owning real and personal property that would be subject to taxation by the City of Avondale in the event of annexation within the territory proposed to be annexed, which is hereafter described, said territory being contiguous to the corporate limits of the City of Avondale, with the exterior boundaries of the territory proposed to be annexed shown on the map attached hereto, marked Exhibit "A" and made a part hereof, request the City of Avondale to annex the following described territory, provided that the requirements of A.R.S. §9-471, and amendments thereto are fully observed.

The description of the territory proposed to be annexed, not already within the present limits of the City of Avondale and located in Maricopa County, Arizona, is as follows:

(SEE ATTACHED MAP AND LEGAL DESCRIPTION)

Parcel Number or Legal Description:	Name of Property Owner:	Phone #:
Mailing Address:	Signature	Date

Parcel Number or Legal Description:	Name of Property Owner:	Phone #:
Mailing Address:	Signature	Date

Parcel Number or Legal Description:	Name of Property Owner:	Phone #:
Mailing Address:	Signature	Date

Parcel Number or Legal Description:	Name of Property Owner:	Phone #:
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Mailing Address:	Signature	Date

Parcel Number or Legal Description:	Name of Property Owner:	Phone #:
Mailing Address:	Signature	Date

Parcel Number or Legal Description:	Name of Property Owner:	Phone #:
Mailing Address:	Signature	Date

**VERDE TRAILS UNIT II - ANNEXATION
LEGAL DESCRIPTION**

PARCEL 1

A portion of land being situated within the Southwest Quarter of Section 19, together with a portion of land as described in the Corrected Warranty Deed, Document 2013-0510175, Maricopa County Records, being situated within the Northwest Quarter of Section 30, all lying within Township 1 North, Range 1 East of the Gila and Salt River Meridian, Maricopa County, Arizona, being more particularly described as follows:

COMMENCING at a found brass cap in hand hole accepted as the Northwest Corner of said Section 30, from which a found brass cap in hand hole accepted as the West Quarter Corner thereof bears South 00°08'28" East, 2620.61 feet;

Thence along the north line of said Northwest Quarter, North 88°42'23" East, 1248.83 feet to the Northwest corner of the Northeast Quarter of said Northwest Quarter, being the Northwest corner of Parcel 101-42-005-D within Document 2013-0510175, (being the Southeast corner of General Land Office, Lot 4, as described in Document 2005-1264576 Maricopa County Records) also being the **POINT OF BEGINNING**;

Thence along the West line of the Southeast Quarter of the Southwest Quarter of said Section 19, as described in Docket 10723, page 0330, Maricopa County Records, North 00°46'52" East, 55.04 feet to the north line of the south 55.00 feet of the Southeast Quarter of the Southwest Quarter of said Section 19;

Thence along said north line, North 88°42'23" East, 323.68 feet to the east line of the West Half of the West Half of the Southeast Quarter of the Southwest Quarter of said Section 19, as described in Document 2015-0841368 Maricopa County Records;

Thence along said east line, South 00°35'04" West, 15.01 feet to the north line of the south 40.00 feet of the Southeast Quarter of the Southwest Quarter of said Section 19;

Thence along said north line, North 88°42'23" East, 971.19 feet to the east line of the Southwest Quarter of said Section 19, as described in Document 2001-0479541, Maricopa County Records;

Thence along said east line, North 00°00'22" West, 15.00 feet to the north line of the south 55.00 feet of the Southeast Quarter of said Section 19;

Thence along said north line, North 89°12'39" East, 230.00 feet to the east line of the west 230.00 feet of the Southeast Quarter of said Section 19;

Thence along said east line, South 00°00'28" East, 55.01 feet to the south line of said Southeast Quarter, being the north line of the corporate limits of the City of Avondale according to Ordinance No. 1274-1107;

Thence along said south line of the Southeast Quarter and said north line of corporate limits, South 89°12'39" West, 230.00 feet to the North Quarter corner of said Section 30;

Thence along the east line of the Northwest Quarter of said Section 30, being the west line of Ordinance No. 1274-1107, South 00°56'08" East, 1324.60 feet to the Southeast corner of the Northeast Quarter of the Northwest Quarter of said Section 30, known as Parcel 101-42-005-N within Document 2013-0510175;

Thence along the South line of the Northeast Quarter of the Northwest Quarter of said Section 30 being the north line of said Ordinance No. 1274-1107, South 89°01'53" West, 1303.45 feet to the Southwest corner of the Northeast Quarter of the Northwest Quarter said Section 30, known as Parcel 101-42-005-P within Document 2013-0510175, being the Northwest corner of said Ordinance No. 1274-1107;

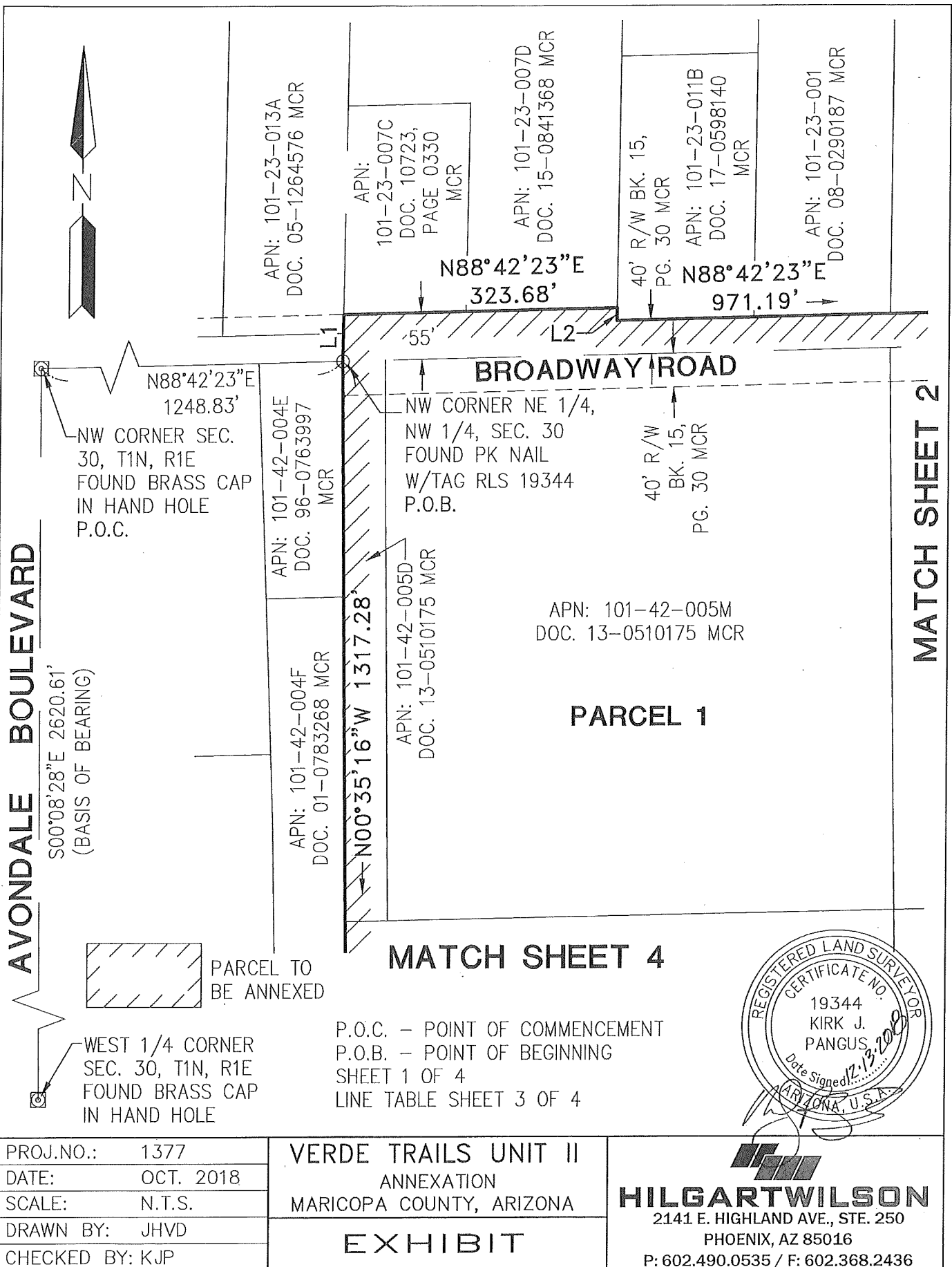
Thence along the west line of the Northeast Quarter of the Northwest Quarter of said Section 30, also being the west line of said Parcel 101-42-005P and Parcel 101-42-005D within said Document 2013-0510175, North 00°35'16" West, 1317.28 feet to the **POINT OF BEGINNING**.

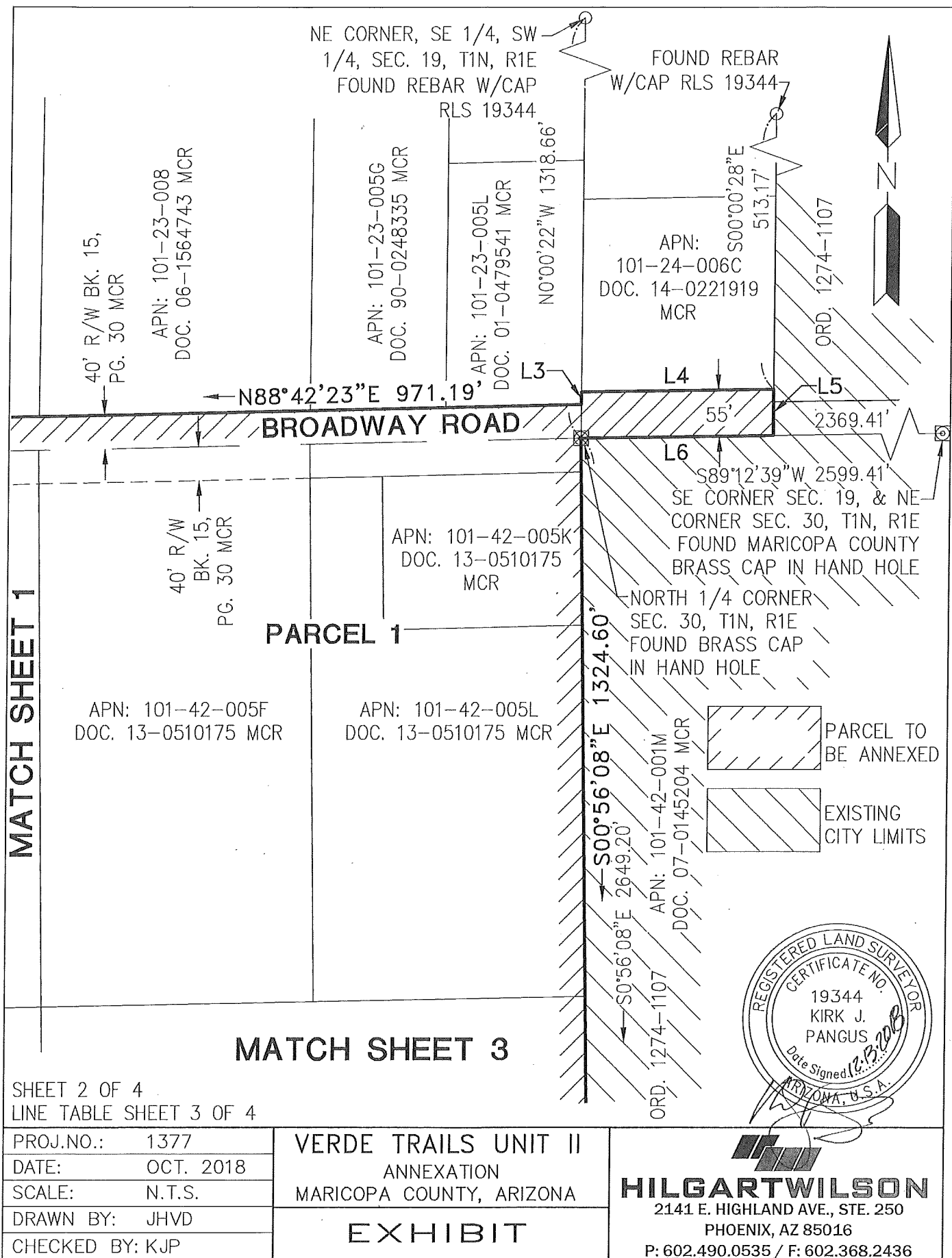
The above described parcels contain a computed area of 1,785,770 sq. ft. (40.9956 acres) more or less and being subject to any easements, restrictions, rights-of-way of record or otherwise.

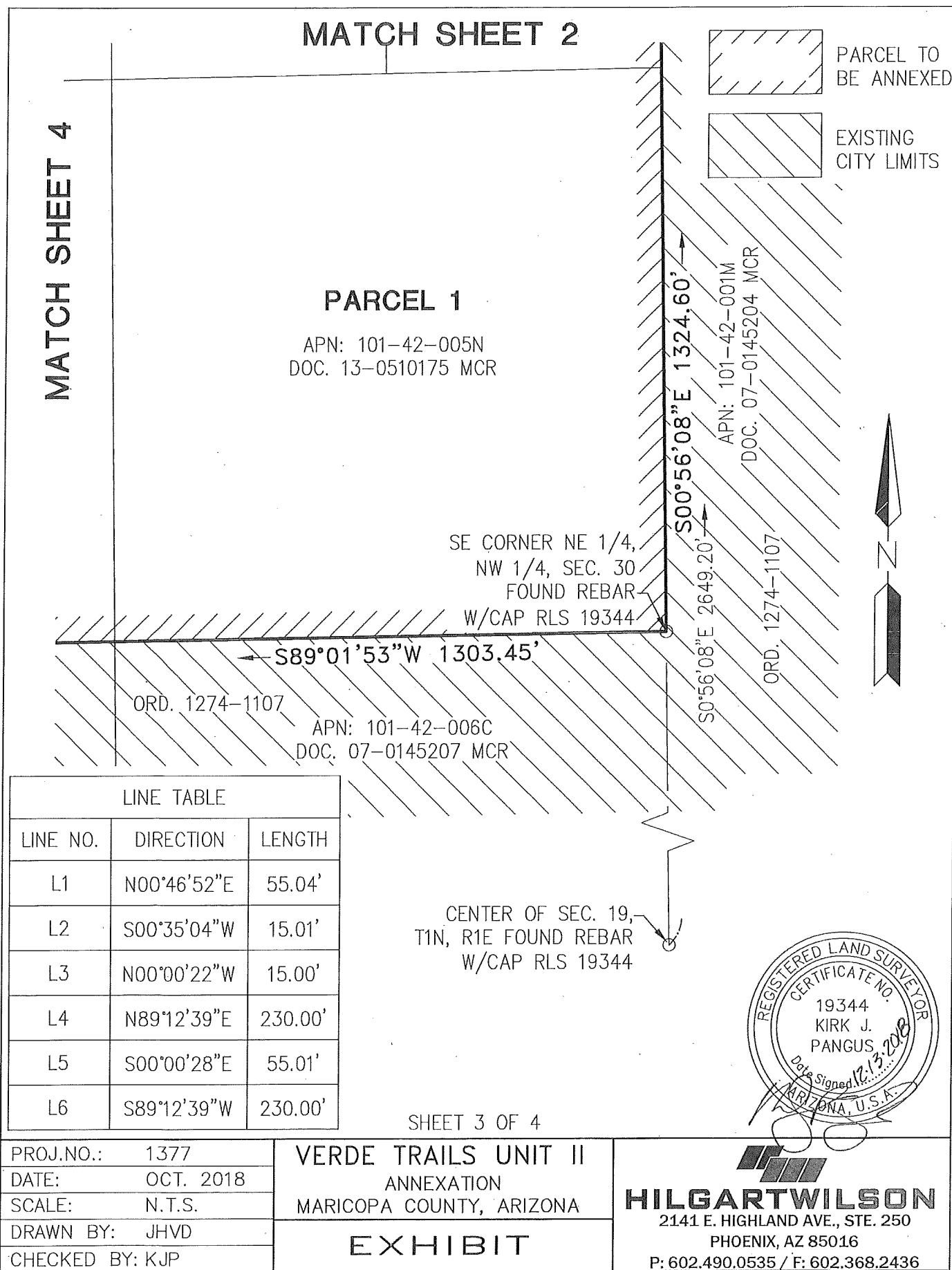
The description shown hereon is not to be used to violate any subdivision regulation of the state, county and/or municipality or any land division restrictions.

Prepared by: HILGARTWILSON, LLC
2141 E. Highland Avenue, Suite 250
Phoenix, AZ 85016
Project No. 1377
Date October 2018









MATCH SHEET 1



APN: 101-42-004G
DOC. 18-0623265 MCR

APN: 101-42-004F
DOC. 01-0783268 MCR

N00°35'16"W 1317.28'

PARCEL 1

APN: 101-42-005P
DOC. 13-0510175 MCR

MATCH SHEET 3

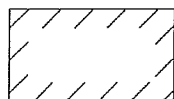
APN: 101-42-005C
DOC. 07-0145207 MCR

APN: 101-42-003F
DOC. 02-0287531 MCR

S89°01'53"W 1303.45'
SW CORNER NE 1/4,
NW 1/4, SEC. 30
FOUND REBAR
W/CAP RLS 19344

APN: 101-42-006D
DOC. 07-0145207 MCR

ORD. 1274-1107

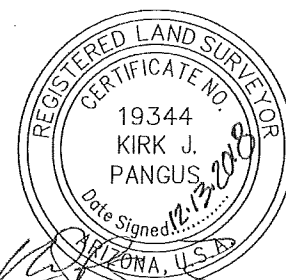


PARCEL TO
BE ANNEXED



EXISTING
CITY LIMITS

SHEET 4 OF 4



HILGARTWILSON

2141 E. HIGHLAND AVE., STE. 250
PHOENIX, AZ 85016

P: 602.490.0535 / F: 602.368.2436

PROJ.NO.: 1377

DATE: OCT. 2018

SCALE: N.T.S.

DRAWN BY: JHVD

CHECKED BY: KJP

VERDE TRAILS UNIT II
ANNEXATION
MARICOPA COUNTY, ARIZONA

EXHIBIT

Affidavit Pursuant to A.R.S. § 9-471(A)(6)
Revised "Harvard-Tobin" (Verde Trails II) Annexation

I, Michelle Pelishek, being first duly sworn, depose and say:

1. I make this affidavit of my own personal knowledge.
2. I am a Planner for the City of Avondale, Maricopa County, Arizona, and I am qualified to make this affidavit on behalf of the City of Avondale.
3. I caused to be recorded in the office of the Maricopa County Recorder a certain annexation packet consisting of an unsigned petition, affidavit, a map, and a legal description on November 28, 2018 (the "Original Petition"). The annexation was known as the Harvard-Tobin (Verde Trails II) Annexation and recorded as Document No. 20180874809, records of Maricopa County, Arizona. The affidavit indicated that the territory was not a part of any other existing annexation.
4. This Affidavit serves as notice to all, that the Original Petition referred to above is no longer of any force and effect and has been withdrawn.
5. On December 12, 2018, the City of Avondale received a Property Owner Waiver Under A.R.S. § 9-471(A)(1), waiving the waiting period authorized pursuant to A.R.S. § 9-471(A)(1) relating to the Original Petition.
6. I have made a diligent search of the records of the Office of the Clerk of the City of Avondale and the Office of the Maricopa County Recorder for any annexation filing which might involve territory sought to be annexed by the Revised Harvard-Tobin (Verde Trails II) Annexation, which is filed herewith, with exhibits, in the Office of the Maricopa County Recorder.
7. I hereby affirm, pursuant to A.R.S. § 9-471(A)(6), that no portion of the territory included in the Petition for the Revised Harvard-Tobin (Verde Trails II) Annexation is included in any previously filed annexation petition.

Michelle Pelishek

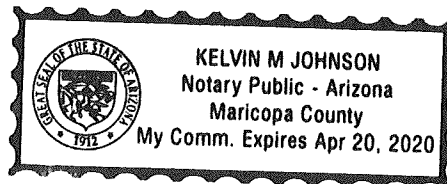
Michelle Pelishek, Planner
City of Avondale

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

SWORN TO AND SUBSCRIBED before me this 19th day of Dec, 2018

Kelvin M Johnson
Notary Public for the State of Arizona

My commission expires: 4/20/20



ORDINANCE NO. 1684-219

AN ORDINANCE OF THE COUNCIL OF THE CITY OF AVONDALE, ARIZONA, EXTENDING AND INCREASING THE CORPORATE LIMITS OF THE CITY OF AVONDALE BY ANNEXING THERETO CERTAIN TERRITORY CONTIGUOUS TO THE EXISTING CITY LIMITS.

WHEREAS, a petition in writing, accompanied by a map of said real property, having been filed and presented to the Council of the City of Avondale (the “City Council”), signed by the owners of more than one-half in value of the real and personal property and more than one half of the persons owning real and personal property as would be subject to taxation by the City of Avondale (the “City”) in the event of annexation within the territory and land hereinafter described (the “Annexation Area”) as shown by the last assessment of said property, which said territory is contiguous to the City, and not now embraced within its limits, asking that the property more particularly hereinafter described be annexed into the City, and to extend and increase the corporate limits of the City so as to embrace the same; and

WHEREAS, the City Council desires to comply with said petition and extend and increase the corporate limits of the City to include the Annexation Area; and

WHEREAS, said petition sets forth a true and correct legal description of all the exterior boundaries of the entire Annexation Area and had attached thereto at all times an accurate map of the Annexation Area; and

WHEREAS, no alterations increasing or reducing the Annexation Area have been made after the said petition has been signed by any owner of real and personal property in such territory; and

WHEREAS, pursuant to ARIZ. REV. STAT. § 9-471(L), a city shall adopt a zoning classification for the Annexation Area that permits densities and uses no greater than that permitted by Maricopa County immediately before the annexation; and

WHEREAS, the Annexation Area is currently zoned by Maricopa County as Rural 43; the City’s Rural Residential-43 (RR-43) zoning classification does not permit densities and uses greater than permitted by Maricopa County’s Rural 43 zoning classification; and

WHEREAS, the provisions of ARIZ. REV. STAT. § 9-471, and amendments thereto, have been fully observed; and

WHEREAS, proper and sufficient certification and proof of the foregoing facts are now on file in the office of the City Clerk together with a true and correct copy of the original Annexation Petition referred to herein, which is on file in the office of the Maricopa County Recorder.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF AVONDALE as follows:

SECTION 1. The recitals above are hereby incorporated as if fully set forth herein.

SECTION 2. The Annexation Area, as more fully described and depicted in Exhibit A, attached hereto and incorporated herein by reference, is hereby annexed to the City and the present corporate limits are hereby extended and increased to include the Annexation Area.

SECTION 3. The land-use classification for the Annexation Area is hereby designated as Rural Residential-43 (RR-43) under the City of Avondale Zoning Ordinance.

SECTION 4. The City Clerk is hereby authorized and directed to file with the Maricopa County Recorder's Office a fully executed copy of this Ordinance, together with an accurate map of the Annexation Area.

SECTION 5. If any provision of this Ordinance is for any reason held by any court of competent jurisdiction to be unenforceable, such provision or portion hereof shall be deemed separate, distinct and independent of all other provisions and such holding shall not affect the validity of the remaining portions of this Ordinance.

PASSED AND ADOPTED by the Council of the City of Avondale, February 4, 2019.

Kenneth N. Weise, Mayor

ATTEST:

Marcella Carrillo, City Clerk

APPROVED:

Andrew J. McGuire, City Attorney

EXHIBIT A
TO
ORDINANCE 1684-219

[Legal description and map of Annexation Area]

See following pages.

**VERDE TRAILS UNIT II - ANNEXATION
LEGAL DESCRIPTION**

PARCEL 1

A portion of land being situated within the Southwest Quarter of Section 19, together with a portion of land as described in the Corrected Warranty Deed, Document 2013-0510175, Maricopa County Records, being situated within the Northwest Quarter of Section 30, all lying within Township 1 North, Range 1 East of the Gila and Salt River Meridian, Maricopa County, Arizona, being more particularly described as follows:

COMMENCING at a found brass cap in hand hole accepted as the Northwest Corner of said Section 30, from which a found brass cap in hand hole accepted as the West Quarter Corner thereof bears South 00°08'28" East, 2620.61 feet;

Thence along the north line of said Northwest Quarter, North 88°42'23" East, 1248.83 feet to the Northwest corner of the Northeast Quarter of said Northwest Quarter, being the Northwest corner of Parcel 101-42-005-D within Document 2013-0510175, (being the Southeast corner of General Land Office, Lot 4, as described in Document 2005-1264576 Maricopa County Records) also being the **POINT OF BEGINNING**;

Thence along the West line of the Southeast Quarter of the Southwest Quarter of said Section 19, as described in Docket 10723, page 0330, Maricopa County Records, North 00°46'52" East, 55.04 feet to the north line of the south 55.00 feet of the Southeast Quarter of the Southwest Quarter of said Section 19;

Thence along said north line, North 88°42'23" East, 323.68 feet to the east line of the West Half of the West Half of the Southeast Quarter of the Southwest Quarter of said Section 19, as described in Document 2015-0841368 Maricopa County Records;

Thence along said east line, South 00°35'04" West, 15.01 feet to the north line of the south 40.00 feet of the Southeast Quarter of the Southwest Quarter of said Section 19;

Thence along said north line, North 88°42'23" East, 971.19 feet to the east line of the Southwest Quarter of said Section 19, as described in Document 2001-0479541, Maricopa County Records;

Thence along said east line, North 00°00'22" West, 15.00 feet to the north line of the south 55.00 feet of the Southeast Quarter of said Section 19;

Thence along said north line, North 89°12'39" East, 230.00 feet to the east line of the west 230.00 feet of the Southeast Quarter of said Section 19;

Thence along said east line, South 00°00'28" East, 55.01 feet to the south line of said Southeast Quarter, being the north line of the corporate limits of the City of Avondale according to Ordinance No. 1274-1107;

Thence along said south line of the Southeast Quarter and said north line of corporate limits, South 89°12'39" West, 230.00 feet to the North Quarter corner of said Section 30;

Thence along the east line of the Northwest Quarter of said Section 30, being the west line of Ordinance No. 1274-1107, South 00°56'08" East, 1324.60 feet to the Southeast corner of the Northeast Quarter of the Northwest Quarter of said Section 30, known as Parcel 101-42-005-N within Document 2013-0510175;

Thence along the South line of the Northeast Quarter of the Northwest Quarter of said Section 30 being the north line of said Ordinance No. 1274-1107, South 89°01'53" West, 1303.45 feet to the Southwest corner of the Northeast Quarter of the Northwest Quarter said Section 30, known as Parcel 101-42-005-P within Document 2013-0510175, being the Northwest corner of said Ordinance No. 1274-1107;

Thence along the west line of the Northeast Quarter of the Northwest Quarter of said Section 30, also being the west line of said Parcel 101-42-005P and Parcel 101-42-005D within said Document 2013-0510175, North 00°35'16" West, 1317.28 feet to the **POINT OF BEGINNING**.

The above described parcels contain a computed area of 1,785,770 sq. ft. (40.9956 acres) more or less and being subject to any easements, restrictions, rights-of-way of record or otherwise.

The description shown hereon is not to be used to violate any subdivision regulation of the state, county and/or municipality or any land division restrictions.

Prepared by: HILGARTWILSON, LLC
2141 E. Highland Avenue, Suite 250
Phoenix, AZ 85016
Project No. 1377
Date October 2018



AVONDALE BOULEVARD

S00°08'28"E 2620.61'
(BASIS OF BEARING)

WEST 1/4 CORNER
SEC. 30, T1N, R1E
FOUND BRASS CAP
IN HAND HOLE



PARCEL TO
BE ANNEXED

APN: 101-23-013A
DOC. 05-1264576 MCR

APN:
101-23-007C
DOC. 10723,
PAGE 0330
MCR

APN: 101-23-007D
DOC. 15-0841368 MCR

40' R/W BK. 15,
PG. 30 MCR

APN: 101-23-011B
DOC. 17-0598140
MCR

APN: 101-23-001
DOC. 08-0290187 MCR

N88°42'23"E
1248.83'

NW CORNER SEC.
30, T1N, R1E
FOUND BRASS CAP
IN HAND HOLE
P.O.C.

APN: 101-42-004E
DOC. 96-0763997
MCR

APN: 101-42-004F
DOC. 01-0783268 MCR

APN: 101-42-005D
DOC. 13-0510175 MCR

N88°42'23"E
323.68'

N88°42'23"E
971.19'

NW CORNER NE 1/4,
NW 1/4, SEC. 30
FOUND PK NAIL
W/TAG RLS 19344
P.O.B.

40' R/W
BK. 15,
PG. 30 MCR

APN: 101-42-005M
DOC. 13-0510175 MCR

PARCEL 1

N00°35'16"W 1317.28'

MATCH SHEET 4

P.O.C. - POINT OF COMMENCEMENT
P.O.B. - POINT OF BEGINNING
SHEET 1 OF 4
LINE TABLE SHEET 3 OF 4



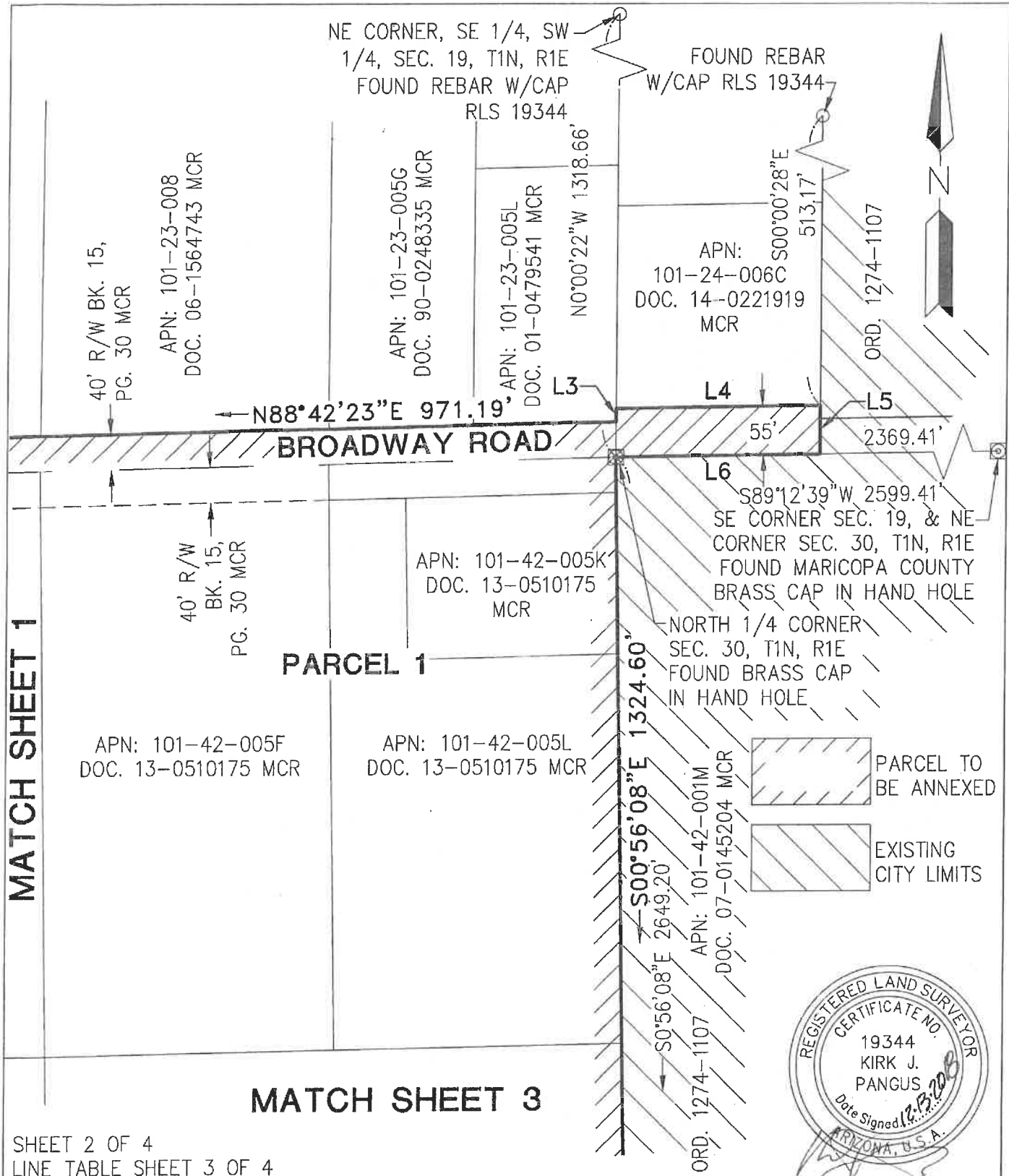
PROJ.NO.:	1377
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DRAWN BY:	JHVD
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VERDE TRAILS UNIT II
ANNEXATION
MARICOPA COUNTY, ARIZONA

EXHIBIT

HILGARTWILSON
2141 E. HIGHLAND AVE., STE. 250
PHOENIX, AZ 85016
P: 602.490.0535 / F: 602.368.2436

MATCH SHEET 2



SHEET 2 OF 4
LINE TABLE SHEET 3 OF 4

PROJ.NO.: 1377
DATE: OCT. 2018
SCALE: N.T.S.
DRAWN BY: JHVD
CHECKED BY: KJP

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MATCH SHEET 2

MATCH SHEET 4

PARCEL 1

APN: 101-42-005N
DOC. 13-0510175 MCR

SE CORNER NE 1/4,
NW 1/4, SEC. 30
FOUND REBAR
W/CAP RLS 19344

S89°01'53"W 1303.45'

ORD. 1274-1107

APN: 101-42-006C
DOC. 07-0145207 MCR

APN: 101-42-001M
DOC. 07-0145204 MCR

S00°56'08"E 1324.60'
S0°56'08"E 2649.20'
ORD. 1274-1107

PARCEL TO
BE ANNEXED

EXISTING
CITY LIMITS



CENTER OF SEC. 19,
T1N, R1E FOUND REBAR
W/CAP RLS 19344

LINE TABLE

LINE NO.	DIRECTION	LENGTH
L1	N00°46'52"E	55.04'
L2	S00°35'04"W	15.01'
L3	N00°00'22"W	15.00'
L4	N89°12'39"E	230.00'
L5	S00°00'28"E	55.01'
L6	S89°12'39"W	230.00'

SHEET 3 OF 4



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MATCH SHEET 1



APN: 101-42-004G
DOC. 18-0623265 MCR

APN: 101-42-004F
DOC. 01-0783268 MCR

N00°35'16"W 1317.28'

PARCEL 1

APN: 101-42-005P
DOC. 13-0510175 MCR

MATCH SHEET 3

APN: 101-42-005C
DOC. 07-0145207 MCR

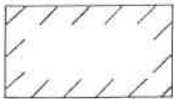
APN: 101-42-003F
DOC. 02-0287531 MCR

SW CORNER NE 1/4,
NW 1/4, SEC. 30
FOUND REBAR
W/CAP RLS 19344

APN: 101-42-006D
DOC. 07-0145207 MCR

ORD. 1274-1107

S89°01'53"W 1303.45'



PARCEL TO
BE ANNEXED



EXISTING
CITY LIMITS

SHEET 4 OF 4



PROJ.NO.: 1377
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CITY COUNCIL AGENDA

SUBJECT:

Public Hearing and Ordinance - Rezoning to
PAD (Planned Area Development) - Verde
Trails II (Application PL-18-0197)

MEETING DATE:

2/4/2019

TO:

Mayor and Council

FROM:

Tracy Stevens, Development & Engineering Services Department Director,
(623) 333-4012

THROUGH:

Charles A. Montoya, City Manager, (623) 333-1016

REQUEST:

City Council will hold a public hearing and consider a request by Ms. Carolyn Oberholtzer, with Bergin, Frakes, Smalley & Oberholtzer, PLLC on behalf of property owner Tobin Living Trust, to adopt an Ordinance rezoning approximately 39.4 gross acres located approximately one-quarter (1/4) mile east of the southeast corner of Avondale Boulevard and Broadway Road from RR-43 (Rural Residential) to PAD (Planned Area Development) for medium density single-family residential use.

PARCEL SIZE:

Approximately 39.4 acres

LOCATION:

Approximately one-quarter (1/4) mile east of the southeast corner of Avondale Boulevard and Broadway Road (Exhibits A, B, and C)

APPLICANT:

Ms. Carolyn Oberholtzer, Bergin, Frakes, Smalley, and Oberholtzer, PLLC
(602) 888-7860

OWNER:

Tobin Living Trust

BACKGROUND:

The 39.4-acre subject property is located approximately one-quarter (1/4) mile east of the southeast corner of Avondale Boulevard and Broadway Road (Exhibit A). The property is currently in the jurisdiction of Maricopa County and zoned RU-43 (Rural-43), Exhibit C. The site is undeveloped and currently used for farming.

The process of annexing the subject property into the City of Avondale is underway. City Council approved proceeding with annexation on November 19, 2018. A public hearing for the proposed annexation is scheduled to occur at the January 14, 2019 City Council meeting with final approval expected to occur by adoption of an Ordinance at the Council's February 4, 2019 meeting. Upon annexation, the property will be zoned RR-43 (Rural Residential).

The property is designated by the General Plan 2030 Land Use Map as Medium Density Residential (MDR). The MDR designation accommodates development of suburban detached single-family residential within a density range of 2.5 to 4.0 dwelling units per acre, with a target density of 2.5. Because the proposed rezoning will accommodate a single-family residential community with a density of 3.7 units per acre, no General Plan Amendment is necessary to process this zoning request.

The existing uses and zoning of the surrounding properties are as follows:

- **SOUTH AND EAST:** Verde Trails Unit I, an approved master planned community zoned PAD (Planned Area Development). Verde Trails Unit I is comprised of 745 single-family residential lots (pending approval of a Preliminary Plat for Parcel 7 currently in process), a 6.6-acre commercial site at the southwest corner of 107th Avenue and Broadway Road, and a 14.8-acre parcel south of the southwest corner of 107th Avenue and Broadway Road reserved for future development of a single-family “cluster-home” type product. The property is currently in agricultural production with construction anticipated to begin in 2019. The developer of Verde Trails Unit I also plans to develop the Verde Trails II property.
- **NORTH:** Across Broadway Road, unincorporated properties, zoned Maricopa County Rural-43. The majority of the properties to the north are over 1-acre in area and developed with single-family residential homes and related accessory structures.
- **WEST:** Unincorporated properties zoned Maricopa County RU-43. These properties have a mix of agricultural/farming and large lot, rural residential uses.

SUMMARY OF REQUEST:

The applicant is requesting to rezone the property to PAD (Planned Area Development) for Single-Family Residential use. The applicant has submitted a PAD Narrative (Exhibit E), which defines permitted uses, development standards, design standards, and other relevant information to guide future development of the Verde Trails II site.

The proposed Verde Trails II PAD zoning will allow for development of the subject property with 146 single-family detached residences at a density of 3.7 dwelling units per acre, in conformance with the property’s Medium Density Residential General Plan designation. The developer intends for Verde Trails II is to be fully integrated with the approved Verde Trails I community and managed by a single Homeowners Association that spans both sites, providing future homeowners within the community the opportunity to utilize not only the amenities within Verde Trails II, but also those amenities that will be constructed with Verde Trails I. To this end, the PAD requires pedestrian and vehicular connectivity between the two sites, requires continuity of design in common walls, entry monuments, and other design features so there will be no discernible break between Verde Trails I and II, and provides for a continuation of an open space greenbelt that will run between the approved and proposed portions of the development.

The property will be accessible from Broadway Road to the north and Wier Avenue to the south. The developer will be responsible for full half-street improvements on the south half of Broadway Road adjacent to Verde Trails II, matching what the developer will construct with Verde Trails I. Wier Avenue does not currently exist but will be constructed by the developer to the property’s eastern edge with Verde Trails I and will be extended to the west edge of the site with development of Verde Trails II. Entries into the Verde Trails II site will feature entry monuments and landscaped medians in streets to create a welcoming appearance.

The proposed PAD includes two different lot types, as follows:

- The northern 17.9 acres will be developed with minimum 5,750 square foot lots featuring a minimum lot width of 50 feet and a minimum lot depth of 115 feet. Development standards for this portion of the site will include minimum 20' front setbacks to face of garage (reduced to 12' to livable area and 10' to side-entry garage), minimum 15' rear setbacks, and minimum 5' & 5' side setbacks (10' street side setback for corner lots). Maximum building coverage for lots will be a maximum of 55 percent of the lot area.
- The southern 19.9 acres will be developed with minimum 6,325 square foot lots featuring a minimum lot width of 55 feet and a minimum lot depth of 115 feet. Development standards for this portion of the site will include minimum 20' front setbacks to face of garage (reduced to 12' to livable area and 10' to side-entry garage), minimum 15' rear setbacks, and minimum 5' & 5' side setbacks (10' street side setback for corner lots). Maximum building coverage for lots will be a maximum of 55 percent of the lot area.

When considered together with Verde Trails I, approximately 23 percent of the overall site area will take the form of usable open space. As it relates solely to the Verde Trails II site, over sixteen percent of the property will be developed with usable open space, with features including:

- A 1-acre centralized "Picnic & Play" parkette will accommodate passive and active recreational needs of residents. The parkette will feature shade elements, turf areas for active play, shaded seating areas, pedestrian scale lighting, and at least two recreational amenity items such as swing sets, tetherball courts, or other recreational features unique from the amenities already being provided in the Verde Trails I park system.
- A greenbelt is sited north to south for the full length of the property, connecting to a similar green belt approved as part of Verde Trails I. The continuation of the green belt will allow Verde Trails II residents the opportunity to easily access the 8 different parks and 2.75 miles of recreational trails that will be provided in the development of Unit I.

Landscape themes will feature a wide assortment of plants matching what is approved for Verde Trails I. Trees will be utilized to provide both shade and aesthetic enhancement throughout the community. Identical to those proposed for Verde Trails I, the design of the perimeter theme walls and monument signage for the community convey a contemporary desert theme. This theme is articulated through horizontal organization of multiple textures, colors, and material including bands of smooth-face block, split-face block, and the development's signature willow green integral color ground-face mesastone block. Vertical articulation is provided through the use of repeating mesastone piers with precast concrete caps that break up long wall segments. Furthermore, theme walls adjacent to Broadway Road will be staggered by at least 3' at regular intervals which provides additional variation in the horizontal plane.

The PAD contains architectural requirements and conceptual elevations that will result in an attractive development that is in conformance with the City's Design Manual and provides for ample diversity between house plans and elevations. Floor plans and elevations for single-family house products in the development will require City administrative approval. As with all new residential development, the City will expect any proposed products to meet requirements of the City's Single-Family Residential Design Manual to reduce garage dominance, create visually interesting streetscapes, and promote architectural variety throughout the community.

PARTICIPATION:

The project applicant and Staff conducted an open house style neighborhood meeting to discuss the proposed General Plan Amendment and Rezoning at 6:00 P.M. on Wednesday, October 24th at Quentin Elementary School. The meeting was advertised in the October 3, 2018 edition of the Southwest Valley Republic. On October 8, 2018, a notification sign adjacent to Broadway Road was installed on the property to provide information on the proposal, including details of the

neighborhood meeting date, time, and location. Additionally, all property owners within 1,000 feet of the subject property were notified of the neighborhood meeting via postcards sent on September 27, 2018.

Seven residents and/or property owners within the surrounding County neighborhoods and one Council Member attended the Neighborhood Meeting (Exhibit G). In addition to a general discussion about the project design, discussion centered around the following topics:

- Would other properties, including the attendees' properties, be annexed as part of this proposal, would citizens signatures be needed, and other general questions about the annexation process? It was explained that only the developer's property and portions of the Broadway Road street right-of-way would be annexed as part of this request. Since the annexation does not include the property of others, those signatures would not be needed. The applicant provided additional details on the annexation process, rules on what properties can and cannot be annexed, and rules for protest.
- Would irrigation and well rights on the County properties be impacted by this proposal? The developer noted that they would not be.
- How would the planned SR30 Freeway impact the project and when would construction of the freeway begin? The applicant pointed out the anticipated freeway alignment is further south and would not impact Verde Trails II. Staff noted that the most recent estimate was that the interim two-lane section of the freeway was scheduled to begin construction by ADOT in 2022.
- When would construction of the development begin and when would it be open? The developer indicated that construction on Verde Trails I would begin in the spring of 2019 and open within two years. Verde Trails II would begin once all required approvals were obtained.
- How would Broadway Road be impacted? Staff noted that the developer is responsible for improving the half-street in front of the property and stated that Broadway Road will feature two lanes in each direction with a center turn lane when complete.
- Would Wier Avenue be extended further west? The developer explained that it would be built to the west edge of the Verde Trails II property and owners to the west would extend it further if and when those properties develop.
- Was this project related to the annexation of the Lakin property? The applicant noted it is a completely separate project.
- Was a Major General Plan Amendment needed? Staff noted that the existing General Plan designated the property as Medium Density Residential, so no General Plan Amendment would be necessary.
- What builders would be building homes in the development? The developer stated that he was in talks with multiple builders and was close to finalizing deals with four builders but could not yet identify who those entities were.
- Would the development create a need for additional commercial development and would the southeast corner of Avondale Boulevard and Broadway Road be commercial? The applicant noted that there was no commercial as part of this project but there is a commercial parcel in Verde Trails I. The applicant also noted that commercial uses were likely to develop when the new freeway is built. Staff noted that property at the corner of Avondale Boulevard and Broadway Road was designated by the Avondale General Plan for

Local Commercial use, but the property was not part of this request and would require annexation, rezoning, and various other approvals before any development could occur.

At the conclusion of the meeting, it did not appear that any attendees had concerns with the proposed development.

One comment pertaining to the proposal has been posted on the City's aVOICE digital forum:

- "Is there any plan in place to improve traffic fluency on Avondale Ave over that zone? Otherwise I oppose to this project."

All required notifications for this meeting have been completed. Staff has not received any additional feedback on the proposal, beyond what was received at the Neighborhood Meeting and through the aVOICE platform. No residents or members of the general public spoke on this item during the December 20, 2018 Planning Commission public hearing.

PLANNING COMMISSION ACTION:

The Planning Commission conducted a public hearing on December 20, 2018 and voted 6-0 to recommend approval of the proposed Rezoning request subject to three (3) Staff recommended stipulations, as follows:

1. Development shall conform to the Verde Trails II PAD Narrative date stamped November 29, 2018, except as modified by these conditions.
2. All required off-site improvements to Broadway Road and Wier Avenue shall be completed in the first phase of development.
3. Grandfathered groundwater rights for the property (#58-113447.0000) must be extinguished and pledged to the City of Avondale's designated account (26-002003.0000) prior to issuance of any construction permits for any portion of the project. The referenced right covers 73.19 acres; if only 39.4 acres will be developed with this project, the City will support a partial extinguishment.

The Commission had only one question for Staff regarding the proposal:

- Commissioner Ramos asked about Littleton Elementary School District's support for the project. Staff stated that the developer of Verde Trails II and the District had agreed upon terms of a donation agreement but due to the holiday interruptions, the agreement had yet to be fully executed and recorded. The agreement will require the developer to contribute \$1,000.00 for every home built within the development to the District for use as the District sees fit.

ANALYSIS:

General Plan

The proposed Verde Trails II PAD conforms to the property's General Plan Land Use Map designation of Medium Density Residential (MDR). When considered together with Verde Trails I, almost 23 percent of highly amenitized open space is provided, well exceeding the 15 percent minimum requirement and justifying the proposed density of 3.7 units/acre. Additionally, the proposed PAD furthers several goals of the General Plan, most notably:

- General Plan Land Use Goal #4, Policy A "*Encourage annexations that benefit the quality of life for Avondale residents and are in the best interest of the City*" and Policy B "*Require all new development to participate in the required infrastructure enhancements, including, but not limited to, street widening and connecting to City water and sewer systems.*" The annexation and subsequent development of the property will increase the supply of housing

units within the jurisdiction of the City, generating additional property tax and increasing the spending power for the City's commercial businesses. Furthermore, prior to development of the site, the developer of the property will be enhancing the City's existing water and sewer infrastructure and improving both Broadway Road and Wier Avenue, reducing obstacles for development for several other undeveloped properties in the area.

- General Plan Land Use Goal #6, Policy D *“Coordinate connectivity opportunities with neighboring communities when creating pedestrian and non-motorized trail systems.”* The pedestrian trail system in Verde Trails II is designed to expand upon and tie into the trail system within the approved Verde Trails I community, allowing residents of both communities to access parkettes spread across both developments.

Access and Circulation

Primary access to the proposed development will be from Broadway Road, with a secondary entrance from Wier Avenue, a new collector road to be constructed south of the site. All local streets internal to the development will be public.

The developer will be responsible for improving the south half of Broadway Road to the City's Minor Arterial standard, to include two eastbound travel lanes, a half center turn lane, curb and gutter, street lights, a detached sidewalk, and landscaping within the right-of-way. The north half of Broadway Road will be improved if/when the properties on that side of the street redevelop, or if the City chooses to include those improvements in a future Capital Improvement Program schedule.

The developer will be responsible for the full-street improvements to Wier Avenue the full width of the property. Those improvements will include one travel lane in each direction, a center turn lane, bike lanes, curb and gutter, detached sidewalks, street lights, and landscaping within the right-of-way.

The developer will be responsible for construction of all local streets internal to the community, which will include one lane in each direction, curb and gutter, detached sidewalks, and street lights.

All off-site improvements will be completed in a single phase prior to issuance of a Certificate of Occupancy for any home within the community.

Permitted Uses

The uses allowed by the PAD are limited to the uses allowed in the City's Urban Residential-5 (R1-5) zoning district. The allowed uses contained within the PAD are identical to what is currently allowed in all the City's platted single-family residential subdivisions of similar density.

Development and Design Standards

The City's R1-5 district is used as the basis for the development standards for both the 5,750 square foot and 6,325 square foot lots contained within the community. In line with current trends, the developer is requesting modifications from the R1-5 standards as it relates to side yard setbacks and maximum lot coverage. With respect to side yard setbacks, the applicant has requested to reduce the required combined side yard setback from 15' to a total of 10' to respond to changing homebuyer preferences for larger homes and less yard maintenance. This request is in line with the approved Verde Trails I PAD and several other residential developments approved in the last year, most notably Alamar (formerly Lakin Ranch) and Roosevelt Park II. Similarly, the applicant has requested to increase the maximum building coverage for lots within the development to 55 percent, from 45 percent as allowed in R1-5. This request is also in line with Verde Trails I, Alamar, and Roosevelt Park, and allows for homebuilders to provide larger homes

on smaller lots. With those exceptions, proposed development standards meet or exceed Zoning Ordinance minimums.

Smaller lot sizes and reduced setbacks can pose challenges, particularly in regard to ensuring that streetscapes are not dominated by homes that are homogeneous in appearance and where the garage door becomes the focal point of the neighborhood. To alleviate these concerns, the proposed PAD contains design standards, such as requirements to recess street facing garages at least 3' from the face of the home, to provide decorative garage doors on all street facing garages, and to provide a variety of architectural styles throughout the community. Adherence to the design requirements of the PAD along with the City's Design Manual will ensure that streetscapes are interesting and provide for ample variety.

Certificates of Adequate School Facilities

The property is located in the service areas of the Littleton Elementary School District (LESD) and the Tolleson Union High School District (TUHSD).

The LESD no longer assigns students to particular elementary schools based upon geographical location. As such, elementary age students living in the future Verde Trails development will have the opportunity to choose which school they will attend within the LESD system. Quentin Elementary, generally located at the northwest corner of Lower Buckeye Road and 107th Avenue within the Sanctuary neighborhood, is geographically closest to the Verde Trails property. High school aged students will attend La Joya Community High School located at the southwest corner of Avondale Boulevard and Durango Street.

LESD has provided the City with an email confirming that the developer and district were in the process of finalizing a donation agreement pertaining to the property. The email, from Chief Operations Officer Phyllis Kinder, indicates that LESD will provide a signed Certificate of Adequate School Facilities once the agreement has been executed. The developer has provided the District with the signed agreement which must now be signed by the District and recorded.

TUHSD has provided the City with a Certificate of Adequate School Facilities signed by Superintendent Nora Gutierrez stating that the district has adequate capacity and no school site within the development is needed.

The email from LESD, the signed donation agreement, and the signed certificate from TUHSD are included for reference (Exhibit F).

STRATEGIC PLAN:

INITIATIVE: Foster sustainable community development

- STRATEGIC GOAL: Encourage build-out in residential housing opportunities that support diverse housing options

INITIATIVE: Encourage and support creative innovation in development and service delivery

- STRATEGIC GOAL: Encourage a flexible environment responsive to market trends

FINDINGS:

1. The proposed PAD zoning with Staff recommended stipulations is in conformance with the property's General Plan land use designation of Medium Density Residential.
2. The proposal meets the PAD requirements of the Zoning Ordinance.
3. The proposed PAD zoning will result in compatible land use relationships.

4. The proposed development standards and design standards are consistent with the desired character of development for this area.
5. Adequate public infrastructure to support the proposed development either presently exists or will be constructed by the developer.

RECOMMENDATION:

The City Council should conduct a public hearing and adopt the Ordinance approving Application PL-18-0197 Verde Trails II, a request to rezone approximately 39.4 gross-acres from RR-43 (Rural Residential) to PAD (Planned Area Development) for single-family residential use, subject to three (3) conditions of approval as listed in the Staff Report:

1. Development shall conform to the Verde Trails II PAD Narrative date stamped November 29, 2018, except as modified by these conditions.
2. All required off-site improvements to Broadway Road and Wier Avenue shall be completed in the first phase of development.
3. Grandfathered groundwater rights for the property (#58-113447.0000) must be extinguished and pledged to the City of Avondale's designated account (26-002003.0000) prior to issuance of any construction permits for any portion of the project. The referenced right covers 73.19 acres; if only 39.4 acres will be developed with this project, the City will support a partial extinguishment.

PROPOSED MOTION:

I move that the City Council accept the findings and **ADOPT** the Ordinance approving Application PL-18-0197 Verde Trails II, a request to rezone approximately 39.4 gross acres from RR-43 (Rural Residential) to PAD (Planned Area Development) for single-family residential use, subject to three conditions of approval as listed in the Staff Report.

ATTACHMENTS:

Description

[Exhibit A - Aerial Photograph](#)

[Exhibit B - General Plan Land Use Map](#)

[Exhibit C - Zoning Vicinity Map](#)

[Exhibit D - Summary of Related Facts](#)

[Exhibit E - Proposed Verde Trails II Planned Area Development Narrative](#)

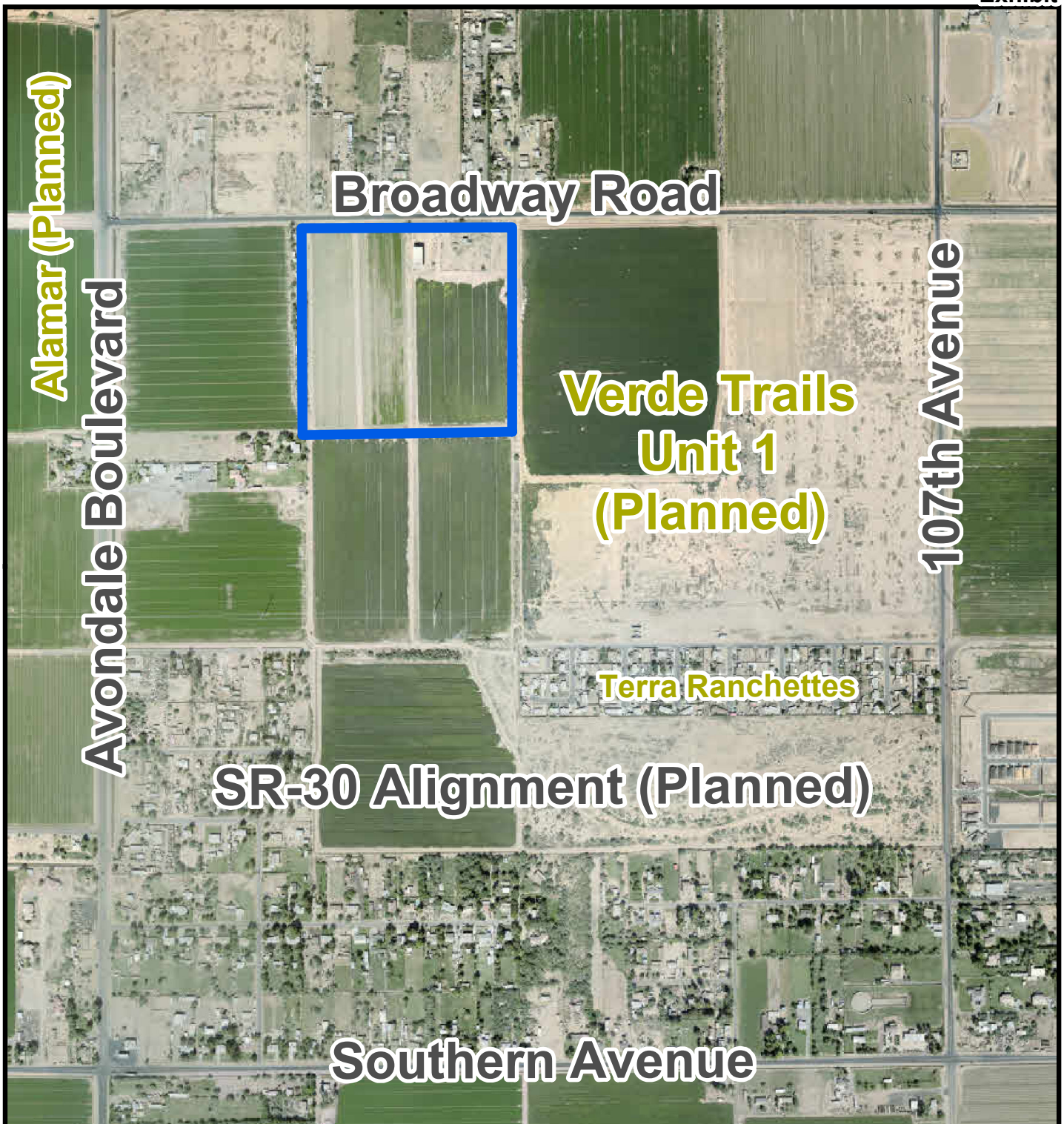
[Exhibit F - School District Correspondence](#)

[Exhibit G - Neighborhood Meeting Summary](#)

[Ordinance](#)

PROJECT MANAGER

Ken Galica, Division Lead Planner (623) 333-4019

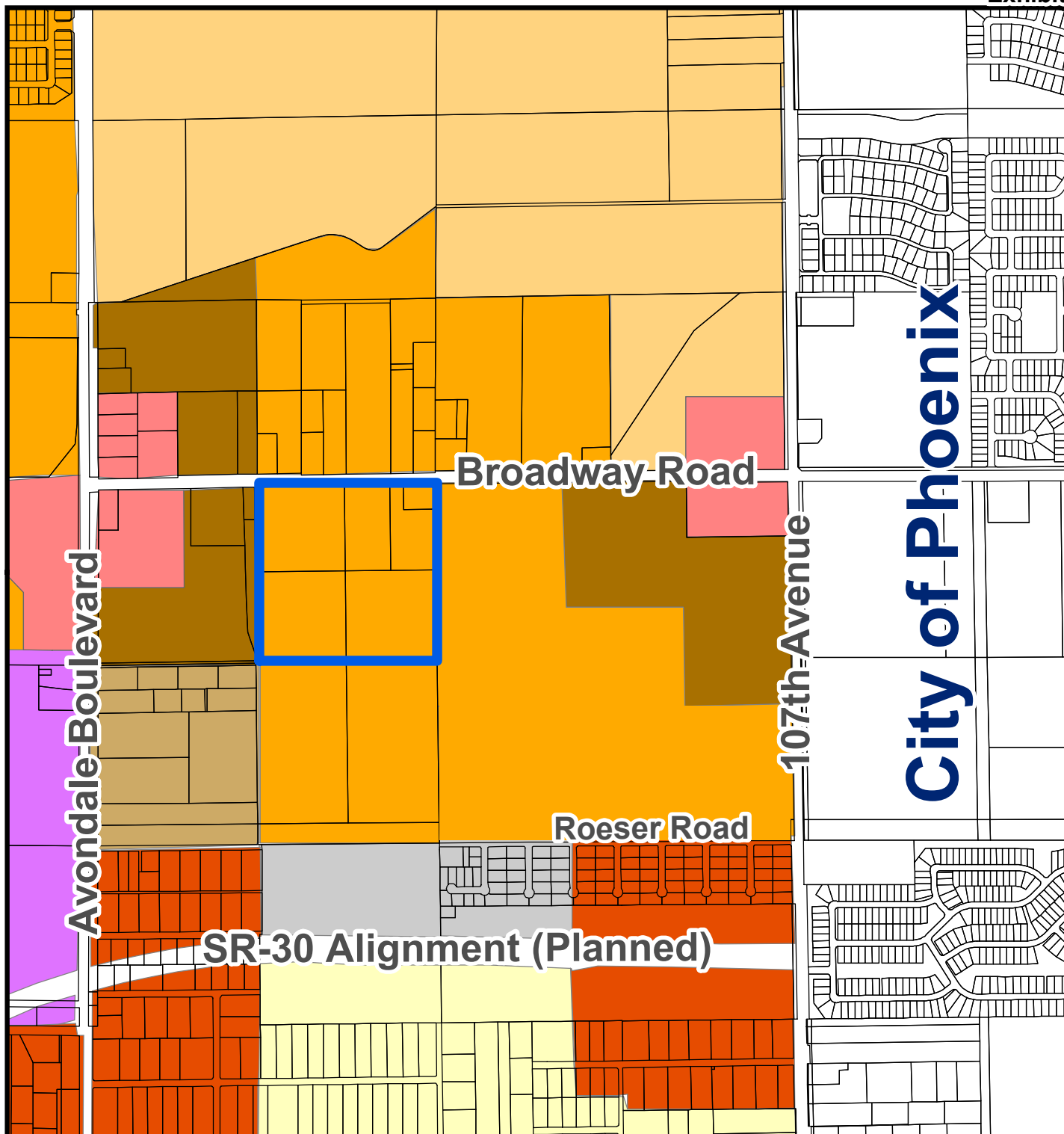


Aerial Photograph

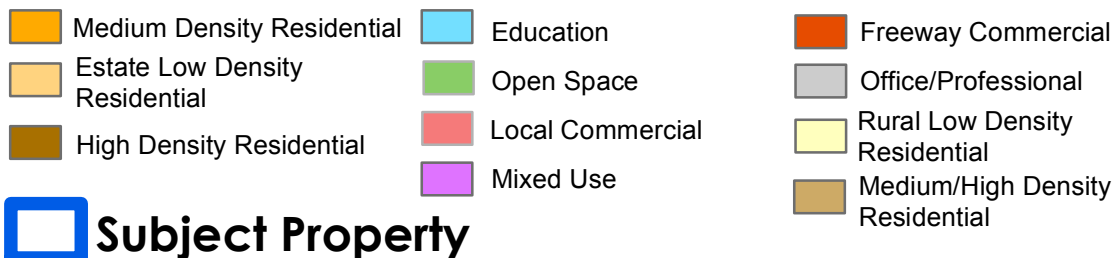


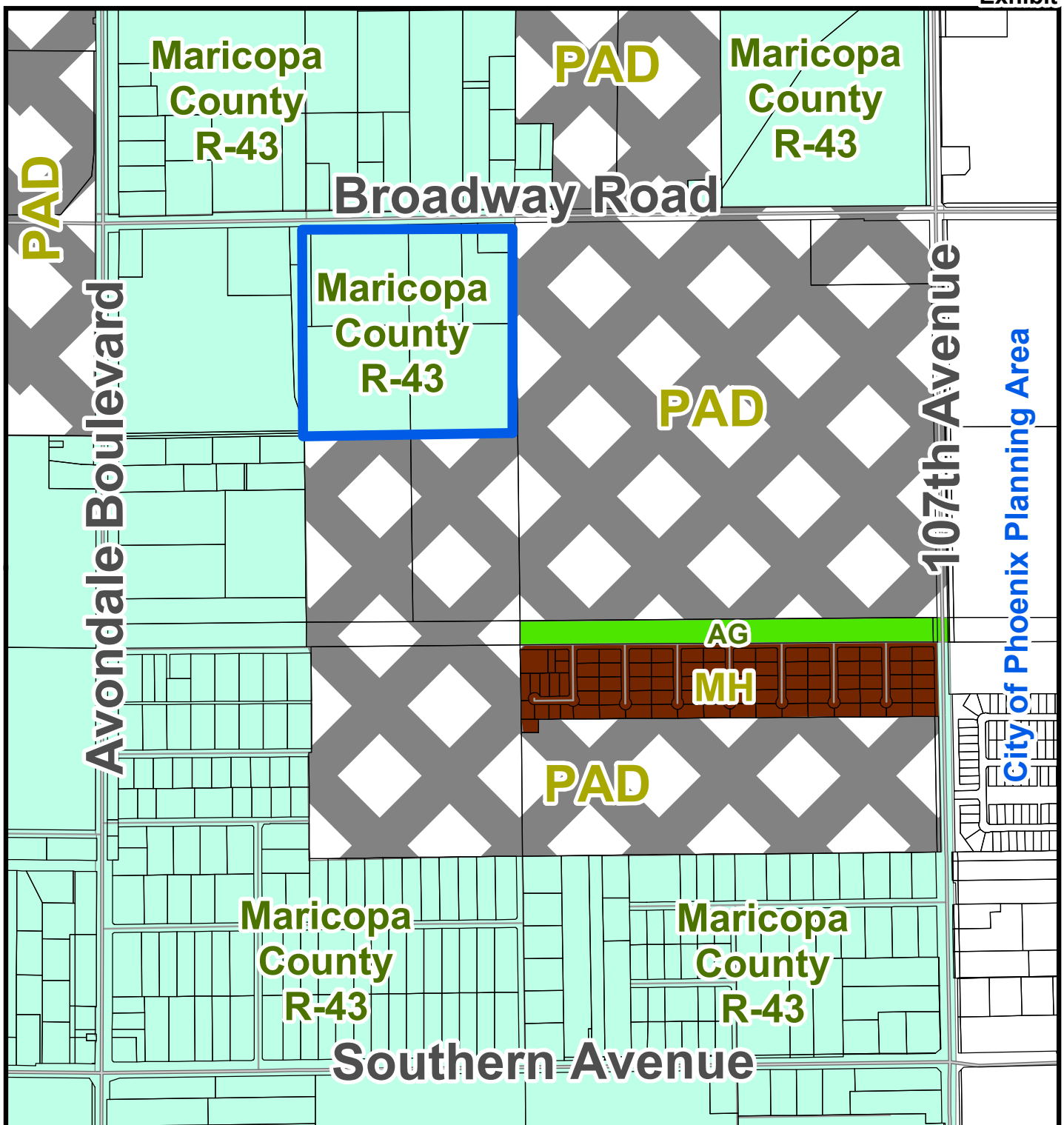
 Subject Property





General Plan Land Use Map





Zoning Vicinity Map



 Subject Property



*SUMMARY OF RELATED FACTS
APPLICATIONS PL-18-0197*

<i>THE PROPERTY</i>	
PARCEL SIZE	Approximately 39.4 acres
LOCATION	Approximately 1/4 mile east of the southeast corner of Avondale Boulevard and Broadway Road
PHYSICAL CHARACTERISTICS	Relatively flat farmland with frontage on Broadway Road
EXISTING LAND USE	Agricultural
EXISTING ZONING	Maricopa County RU-43 (Rural 43)
JURISDICTION	The subject property is currently in the jurisdiction of Maricopa County. A request to annex the property is currently being processed concurrent with this rezoning request and is tentatively scheduled for final City Council approval on February 4, 2019.

<i>SURROUNDING ZONING AND LAND USE</i>	
NORTH	Unincorporated properties, zoned Maricopa County Rural-43. The majority of the properties to the north are over 1-acre in area and developed with single-family residential homes and related accessory structures.
EAST AND SOUTH	Verde Trails Unit I, an approved master planned community zoned PAD (Planned Area Development). Verde Trails Unit I is comprised of 745 single-family residential lots (pending approval of a Preliminary Plat for Parcel 7), a 6.6-acre commercial site at the southwest corner of 107 th Avenue and Broadway Road, and a 14.8-acre parcel south of the southwest corner of 107 th Avenue and Broadway Road reserved for future development of a single-family “cluster-home” type product. The developer of Verde Trails Unit I also plans to develop the Verde Trails II property.
WEST	Unincorporated properties zoned Maricopa County RU-43. Current use of these properties is a mix of agricultural/farming and large lot, rural residential uses.

<i>GENERAL PLAN</i>	
The subject property is designated as Medium Density Residential. The Medium Density Residential (MDR) General Plan designation allows for development of detached single-family residential uses at a suburban density of 2.5 to 4.0 dwelling units per acre.	

<i>PUBLIC SCHOOLS</i>	
SCHOOL DISTRICT(S)	Littleton Elementary School District; Tolleson Union High School District
ELEMENTARY SCHOOL	Student’s choice (No defined school). The closest district school is Quentin Elementary School, generally located at the northwest corner of 107 th Avenue and Lower Buckeye Road. The Verde Trails development included a potential elementary school site at the southwest corner of Wier

Exhibit D

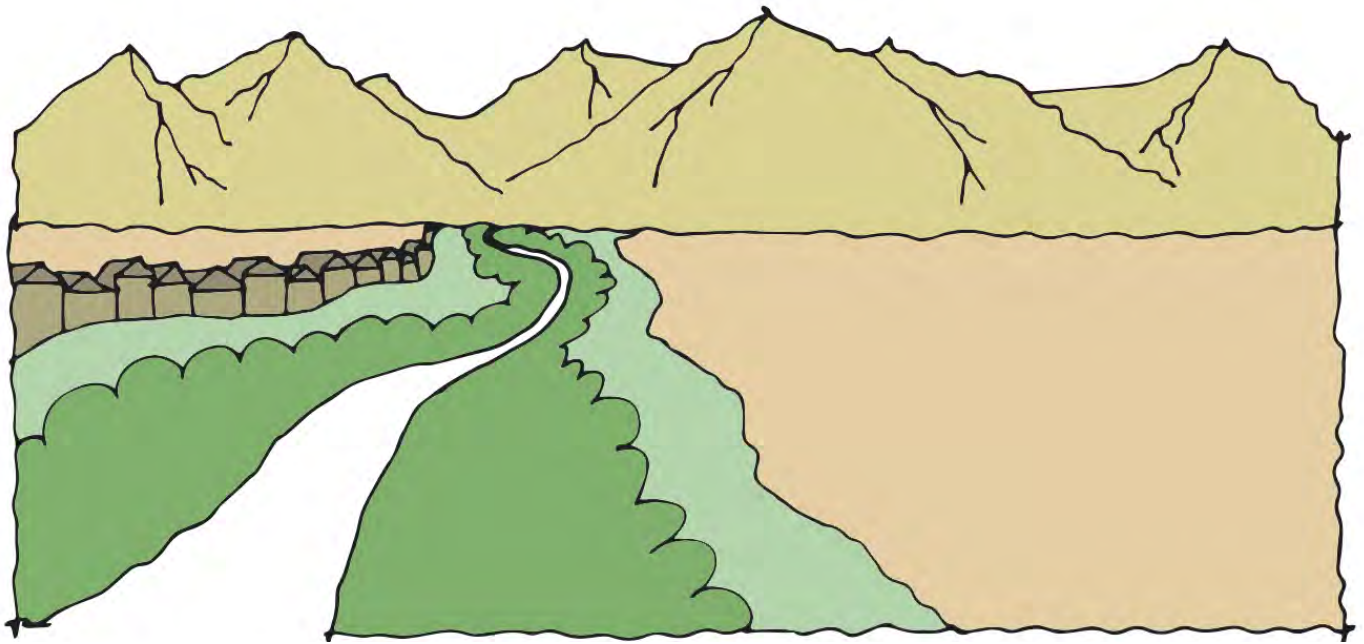
	Avenue and 107 th Avenue, however the district declined to purchase that site for construction of a new school.
HIGH SCHOOL	La Joya Community High School

<i>STREETS</i>	
Broadway Road	
Classification	Minor Arterial
Existing half street ROW	40 feet
Standard half street ROW	50 feet
Existing half street improvements	1 travel lane
Standard half street improvements	2 travel lanes, ½ center turn lane, bike lane, curb and gutter, detached sidewalks, street lights and landscaping.
Wier Avenue	
Classification	Minor Collector
Existing full street ROW	0 feet
Standard full street ROW	80 feet
Existing half street improvements	None
Standard half street improvements	1 travel lane in each direction, ½ center turn lane, bike lane, curb and gutter, detached sidewalks, street lights and landscaping.

<i>UTILITIES</i>
There are currently no water lines in Broadway Road adjacent to the site. A 16" water line will be installed in Broadway Road as part of the Verde Trails I development which will also serve the Verde Trails II property. There are currently no sewer lines adjacent to the site. A sewer line will be installed by the developer of Verde Trails I that will connect from the existing sewer in Avondale Boulevard into Verde Trails through a sewer easement south of the Verde Trails II property. Verde Trails II will utilize a connection to this new sewer line across Wier Avenue.

Exhibit E

Verde Trails II Planned Area Development Narrative



VERDE TRAILS II

PLANNED AREA DEVELOPMENT
Avondale, Arizona
PL-18-0197

August 2, 2018
Revised: September 11, 2018
Revised: November 28, 2018

PROJECT TEAM

Developer / Applicant

Harvard Investments, Inc.
17700 N. Pacesetter Way, Suite 100
Scottsdale, Arizona 85255
T 480.348.1118
Contact: Tim Brislin

Consultant Team

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OVERVIEW

Introduction

Verde Trails, located at the southwest corner of 107th Avenue and Broadway Road within the City of Avondale (the “City”), is zoned Planned Area Development (PAD) and was approved by the City on May 21, 2018. Encompassing approximately three hundred and ten (310) gross acres, the Verde Trails Master Planned Community includes a commercial corner, seven (7) distinct neighborhood residential districts, over 2.5 miles of paths and trails, a centralized neighborhood park, and several parkettes sprinkled throughout the community so all residents are within a short walk from an amenity area. Verde Trails has been thoughtfully designed by leveraging tools and techniques of the planning, engineering and landscape architecture disciplines in order to develop a community that ensures sustainability.

For all intents and purposes, **Verde Trails II** will be an extension of the Verde Trails community. Located along the south side of Broadway Road between Avondale Boulevard and 107th Avenue, Verde Trails II is immediately adjacent to Verde Trails (Parcel 3 to the east and Parcel 11 to the south). With the number of changes involving property in the immediate area, Harvard Investments (“Harvard”) is excited to have the opportunity to include the approximately forty (40) acre Property into their vision for Verde Trails.

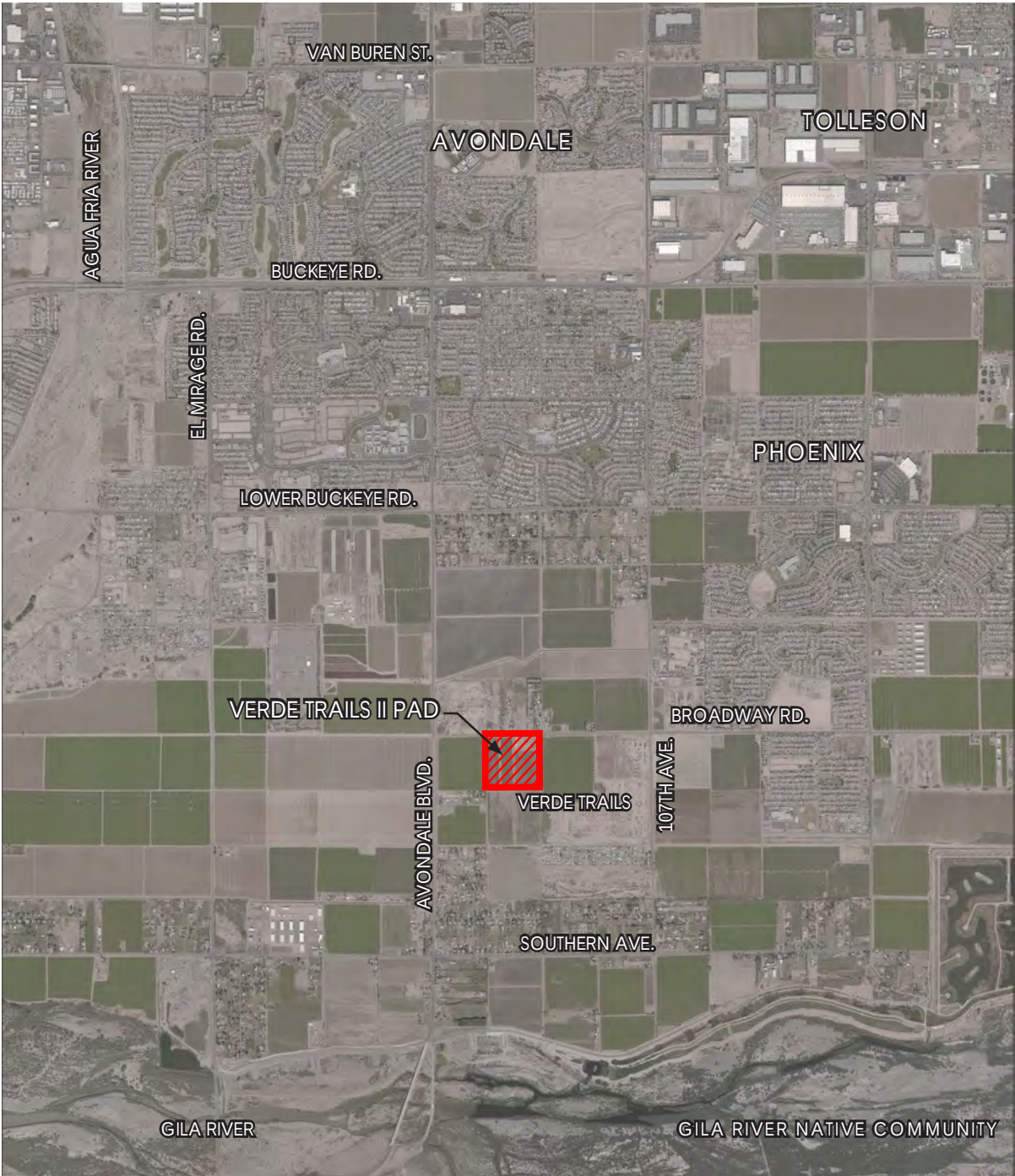
The Property is currently located within Maricopa County, and as part of the entitlement process, is seeking annexation into the City of Avondale. The annexation request will run concurrently with the Rezone process and will be required to be approved prior to zoning approval. The purpose of this Rezone / PAD request is to revise the current zoning of Rural-43 (Maricopa County) to PAD in order to accommodate the extension of existing entitlements for the Verde Trails community onto the Property. Through strategic planning and project design, Verde Trails II has the ability to seamlessly tie into the Verde Trails master plan and will simply become an extension of Verde Trails.

Site Location and Surroundings

Verde Trails II encompasses approximately forty (40) acres in the southeast portion of the City of Avondale, immediately adjacent to Verde Trails. The site is generally bound by Broadway Road to the north and Verde Trails to the south and east. (See Exhibit A - Regional Vicinity Map and Exhibit B – Context Map) Verde Trails II is currently zoned Rural-43 within Maricopa County. It is surrounded by mostly agricultural lands zoned Maricopa County Rural-43, as well as Verde Trails which is zoned City of Avondale PAD. (See Exhibit C – Zoning Map) The adjacent land to the west and north is within unincorporated Maricopa County jurisdiction and is primarily undeveloped agricultural land with some larger lot residential parcels. The two (2) properties bordering Verde Trails II to the west have direct access to Broadway Road by way of a shared, gravel road located just to the west of the Verde Trails II property boundary. Development of Verde Trails II will not alter existing access to these two (2) adjacent parcels. The land immediately east and south is planned as the Verde Trails community which anticipates first phase of development to occur within the next two (2) years.

There are several master planned communities in the immediate vicinity in various stages of planning and development. To the north and west, these communities include Del Rio Ranch, Diamond P. Ranch, Fleming Farms, and Lakin Ranch, which is located due west of Verde Trails on the west side of Avondale Boulevard. To the northeast, planned communities in the City of Phoenix include Sunset Farms, Country Place, and Farmington Glen, as well as Lions Gate and River Rock Trails West which are both currently under construction.

EXHIBIT A | REGIONAL VICINITY MAP

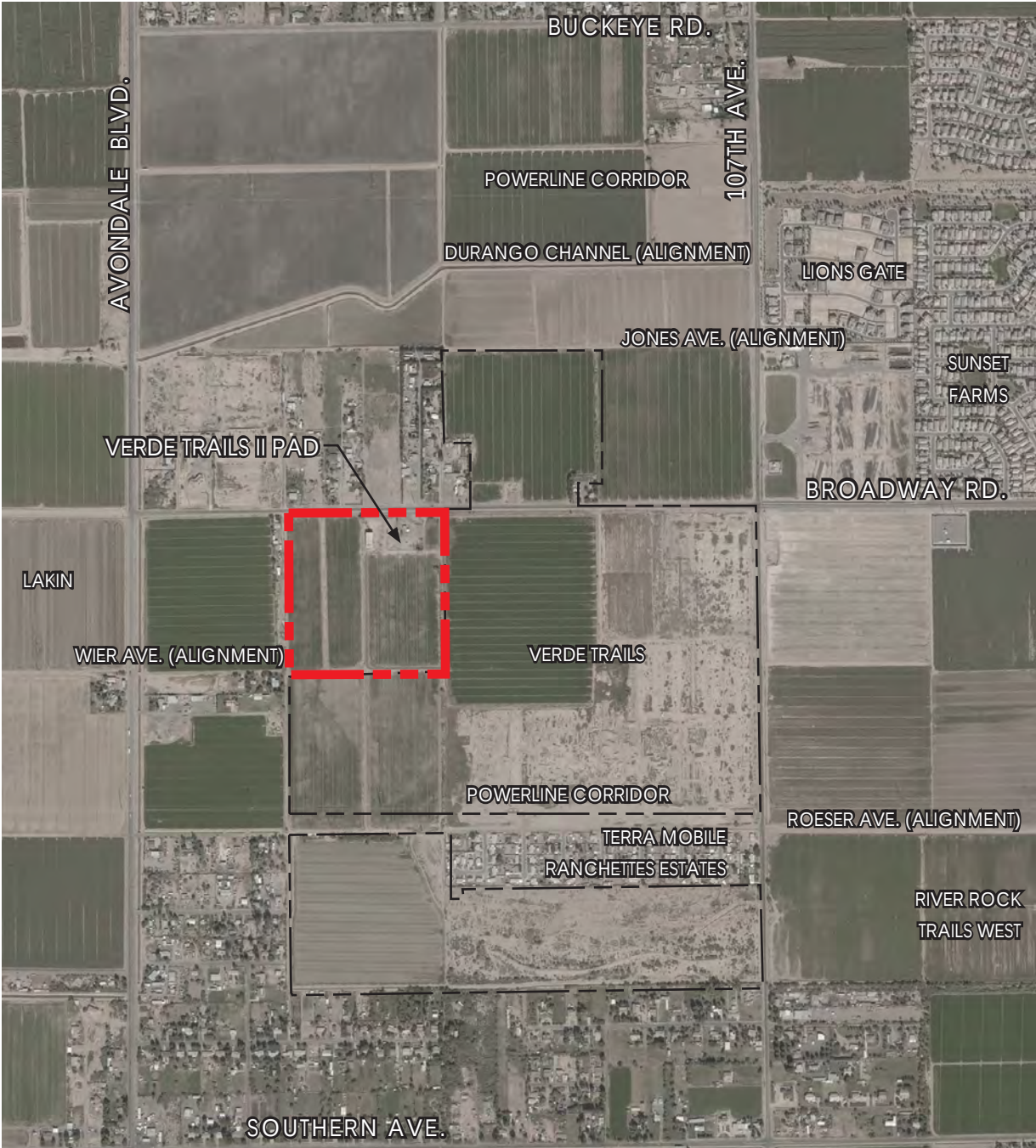


LEGEND

 PAD BOUNDARY

SCALE: N.T.S. 
NORTH

EXHIBIT B | CONTEXT MAP

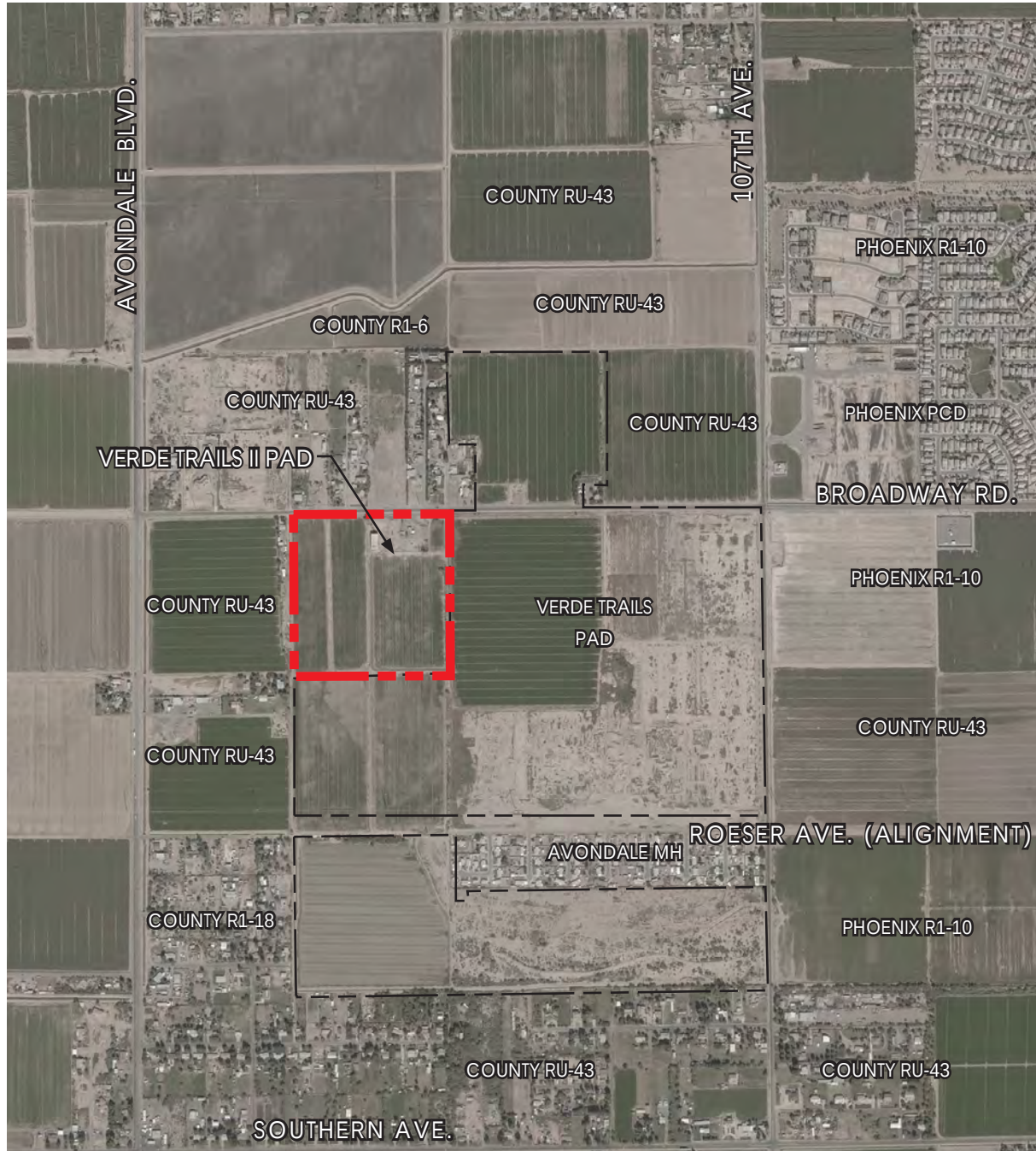


LEGEND

— · · · — PAD BOUNDARY

SCALE: N.T.S. 
NORTH

EXHIBIT C | ZONING MAP



SCALE: N.T.S.



LEGEND

--- PAD BOUNDARY

Existing Conditions - Opportunities and Constraints

The Verde Trails II property is currently utilized for agricultural purposes, similar to the adjacent properties. Site constraints are few and all of which are located along the northern boundary of the property. There are three (3) wells, a concrete irrigation ditch and 230 kV overhead powerlines along the south side of Broadway Road. One (1) of the wells will remain in place, while the concrete irrigation ditch will either be placed underground and/or be abandoned and the overhead powerlines will be placed underground outside of the future Broadway Road right-of-way. (See Exhibit D – Site Constraints)

Due to the location of the Property, which is bordered by Verde Trails to the east and south, the site presents a valuable opportunity to be incorporated into the Verde Trails Master Planed Community. The design of Verde Trails II focuses on seamlessly integrating and connecting with Verde Trails by providing both vehicular and open space connectivity. The site is planned to be integrated aesthetically through the cohesive design of theme walls, entry monumentation, and landscape theming. Furthermore, the centralized neighborhood trail and open space corridor within Verde Trails II provides an excellent opportunity to extend and expand on the overall trail and amenity network within Verde Trails.

Zoning History and General Plan

The Property is currently under the jurisdiction of Maricopa County and zoned Rural-43. The Rural-43 zoning classification is intended as a transitional/holding category and once public utilities and street access is available, modification to a single-family residential zoning district is favorably considered. Although the property is located in Maricopa County, it is within the City of Avondale General Plan Area. In conjunction with this Rezone / PAD request, an Annexation filing has been submitted to annex the forty (40) acre property into the City of Avondale. The annexation will need to be approved prior to formal zoning approval by Avondale City Council. The 2012 General Plan designates the Verde Trails II property as Medium Density Residential (“MDR”) which allows a residential density of 2.5-4.0 Du/Ac. (See Exhibit E – Avondale General Plan)

The surrounding land adjacent to Verde Trails II has the following General Plan Land Use designations:

- Land to the north is designated as Medium Density Residential (MDR 2.5-4.0 Du/Ac).
- Land to the south and east is designated as Medium Density Residential (MDR 2.5-4.0 Du/Ac), as part of Verde Trails.
- Land to the west is designated as High Density Residential (HDR 12.0-30.0 Du/Ac)

The MDR designation for Verde Trails II is consistent with the Avondale General Plan and compatible with the planned land use of surrounding properties. By providing multiple housing types, exceptional design, and a comprehensive open space plan, the Verde Trails II PAD conforms to the design, goals, intensity and vision of the City’s General Plan.

EXHIBIT D | SITE CONSTRAINTS



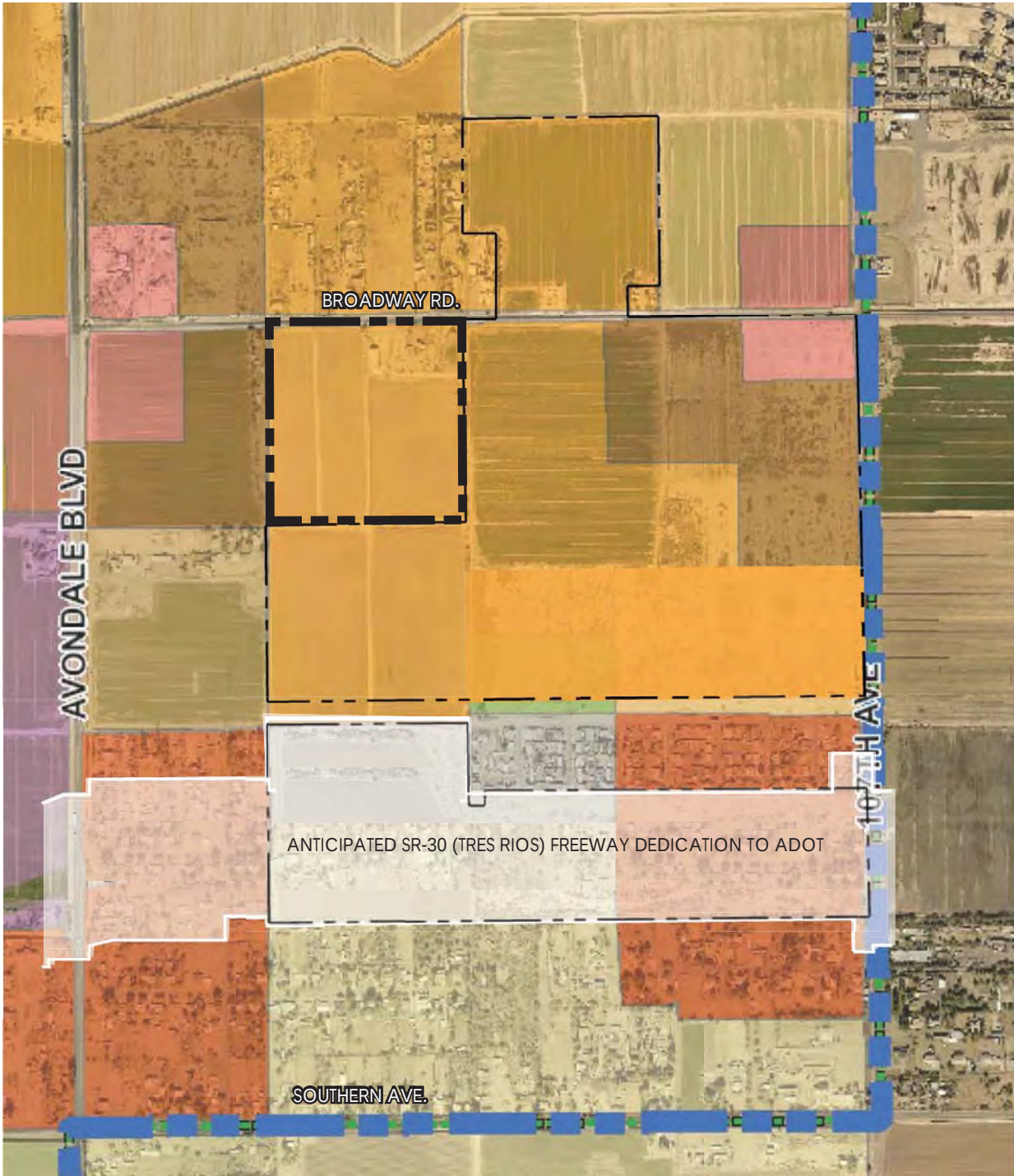
LEGEND

- OVERHEAD POWERLINES
- ==== CONCRETE IRRIGATION DITCH

- PAD BOUNDARY
- Ⓜ WELL (TO BE ABANDONED)
- Ⓜ WELL (TO REMAIN IN PLACE)

SCALE: N.T.S. 
NORTH

EXHIBIT E | AVONDALE GENERAL PLAN



LEGEND

- ESTATE LOW DENSITY RESIDENTIAL: 0 - 2.5
- MEDIUM DENSITY RESIDENTIAL: 2.4 - 4.0
- HIGH DENSITY RESIDENTIAL: 12 - 30
- OPEN SPACE AND PARKS
- PAD BOUNDARY

- EDUCATION
- OFFICE / PROFESSIONAL
- LOCAL COMMERCIAL
- FREEWAY COMMERCIAL
- AVONDALE CITY LIMITS

SCALE: N.T.S. 
NORTH

SUMMARY

Verde Trails II is planned as an extension of Verde Trails, providing an opportunity to create a quality, sustainable community in the City of Avondale. With its abundance of open space amenities and mix of land uses, Verde Trails will provide an enjoyable lifestyle for its residents. The following are just a few of the highlights of the Verde Trails II PAD, as well as the broader Verde Trails community:

Verde Trails II

- Minimum 16% Open Space (Total open space acreage [6.05 ac] divided by net site acreage [37.8 ac]) (Net site acreage is gross area less the half street right-of-way for Broadway Road and full right-of-way for Wier Avenue)
- Continuation of the neighborhood trail north to south from Broadway Road south to the multi-use paseo located at the southern edge of Verde Trails Unit 11
- Centralized 'Picnic & Play' parkette with shade element and passive and active recreation opportunities
- Continuation of the landscape, wall and monumentation theme for Verde Trails
- Two (2) residential districts, both of which will be specific to Verde Trails II
- Maximum gross residential density of 3.7 du/ac (Total number of lots [146] divided by gross residential area [39.4])

Verde Trails

- Multi-purpose trails traversing the project, including over 2.5 miles of off-street trails
- Approximately 4.7 acre centralized neighborhood park with multiple passive and active amenities for all ages
- 24% Open Space (Total open space acreage [69.8 ac] divided by net site acreage, minus commercial uses [291.0 ac])
- Parkettes incorporating sports, play, picnic and passive recreational facilities for all ages located throughout the community conveniently located to all residents
- Landscaped park/retention open space areas
- Landscaping and monumentation in harmony with neighborhood themes
- Landscaped collector spine roadway with enhanced landscape and theme wall
- Landscaped medians and/or widened right-of-ways at entryways to neighborhood residential districts, where appropriate
- Easy pedestrian access to the proposed regional recreational trail system by way of the multi-use paseo
- Variation and diversity in housing products, elevation, setbacks, architectural details and lot sizes
- Approximately 6-acre commercial site which will provide goods and services for the Verde Trails residents and the surrounding area
- Pedestrian access to community and neighborhood level commercial services
- Safe pedestrian routes to recreational facilities

Combined, Verde Trails and Verde Trails II will include a total of approximately 23% open space, over 2.75 miles of trails, and eight (8) different lot size offerings.



PAD DESCRIPTION

PAD DESCRIPTION

Land Use

Verde Trails II is intended to be an extension of the Verde Trails community, having the same aesthetic and composition of land uses. The Verde Trails PAD is over three hundred and ten (310) acres and comprised of a variety of land use districts. The neighborhood residential districts within Verde Trails incorporate various product types and market segments, providing a variety of home options with varying architectural styles. The Verde Trails II property is approximately forty (40) acres and continues the concept of variety in its residential and recreational land uses. (See Exhibit F – Proposed Land Use Development Map) Verde Trails II provides for two (2) residential districts, both of which will be specific to Verde Trails II.

Verde Trails II consists of two (2) Neighborhood Residential Districts, which include the 5750 District and 6325 District. A total of one hundred forty-six (146) lots have been planned, providing a maximum density of 3.7 dwelling units per residential gross acre. The proposed lot mix chart shown below indicates the anticipated lot yield per Residential District and is subject to change. A final lot mix will be provided at the Preliminary Plat stage of development.

	5750 District	6325 District
Min. Lot Area	5,750 S.F.	6,325 S.F.
Min. Lot Dimensions	50'x115'	55'x115'
Number of Lots	78	68
Percentage of Total Lots	53.4%	46.6%

Each district has its own set of development standards which can be found in the Development Standards section of this PAD. Permitted uses within the Residential Districts shall be those governed by the R1-5 Single Family Residential District in Section 202 of the City of Avondale Zoning Ordinance in place as of the date of this PAD.

Circulation

The pedestrian, bicycle, and vehicular circulation pattern within Verde Trails II is easily accessed from Broadway Road to the north and Wier Avenue to the south. (See Exhibit G – Circulation Plan) A single point of access from these two (2) perimeter roadways provides effective and efficient access to the two (2) residential districts within Verde Trails II, as well as provides connectivity through the parcel, north to south, connecting users from Broadway Road to Wier Avenue. The entry road off of Wier Avenue is aligned with the entry road into Verde Trails Parcel 11, providing a unifying corridor with vehicular, bicycle, pedestrian, and open space connectivity.

Pedestrian and bicycle circulation is provided within Verde Trails II by use of a continuous north/south corridor which utilizes a system of sidewalks and segments of the six foot (6') wide neighborhood trail. This north/south trail corridor provides residents a fluid and direct path between Broadway Road and Wier Avenue, as well as access through Verde Trails Parcel 11 south to the multi-use trail. This strong central open space spine with trail corridor allows for connectivity between Verde Trails II and Verde Trails Parcel 11 and provides a second north/south non-vehicular connection for the Verde Trails community. Connectivity east to Parcel 3, the Games and Gathering parkette and the main neighborhood greenway (all located in Verde Trails) is achieved through trail access provided at the southeast corner of Verde Trails II.

Broadway Road is a minor arterial, providing direct access from the north and Wier Avenue, a minor collector, is designed as a major east/west circulation corridor (vehicular, pedestrian and bicycle) through the Verde Trails community, linking the residents to 107th Avenue to the east. Wier Avenue is planned as an eighty foot (80') wide right-of-way with two (2) travel lanes, a central turn lane, and bike lanes. Broadway Road has an ultimate section consisting of a one hundred foot (100') right-of-way with four (4) lanes, a center turn lane, and bike lanes. Since Verde Trails II is located on the south side of Broadway Road, only the half street condition will be improved with the development of the Property. It is important to note that the full right-of-way width for Broadway Road improvements adjacent to the Verde Trails II boundary is included as part of the annexation request so that the future, ultimate build-out of Broadway Road will be located within the City of Avondale.

Interior residential streets have a fifty foot (50') right-of-way width with the option to have an attached or detached sidewalk. The main access roads into Verde Trails II from Broadway Road and Wier Avenue will include a sixty foot (60') right-of-way width to provide for a slightly wider travel lane and an enhanced landscape median at these entry locations. (See Exhibit H – Street Sections)

A preliminary traffic statement will be provided with the Preliminary Plat submittal.

Theme

The community name, Verde Trails II pays homage to the site's proximity to the Agua Fria River, Salt River and Gila River, as well as the Tres Rios Wetlands. Using the name as a guiding element of the design (both in site planning and community theming), an extensive trail and open space amenity network is incorporated as the unifying backbone for the community. Trails traverse the site as the three (3) rivers flow through the landscape of Avondale. The theme is incorporated into the built environment through the use of rich desert inspired colors and textures. Clean lines and smooth finishes evoke a contemporary feel, while incorporation of textural elements and color enhance the aesthetic quality to the walls and entry monument, reflecting the overall contemporary desert theme. Verde Trails II will match the design theme of Verde Trails, creating a seamless blending of the two (2) properties.

The plant material provides a softening element to the overall design of the community. Its textural quality and variation of color both accentuates the hardscape and architecture elements and acts as a stand-alone design feature. Canopy trees provide shade for pedestrians and amenity users and add visual interest at key locations within the community. The design guidelines included within this PAD have been established in an effort to serve as a framework for developing a consistent and harmonious theme within Verde Trails II as well as over the entirety of the Verde Trails community.

EXHIBIT F | PROPOSED LAND USE DEVELOPMENT MAP

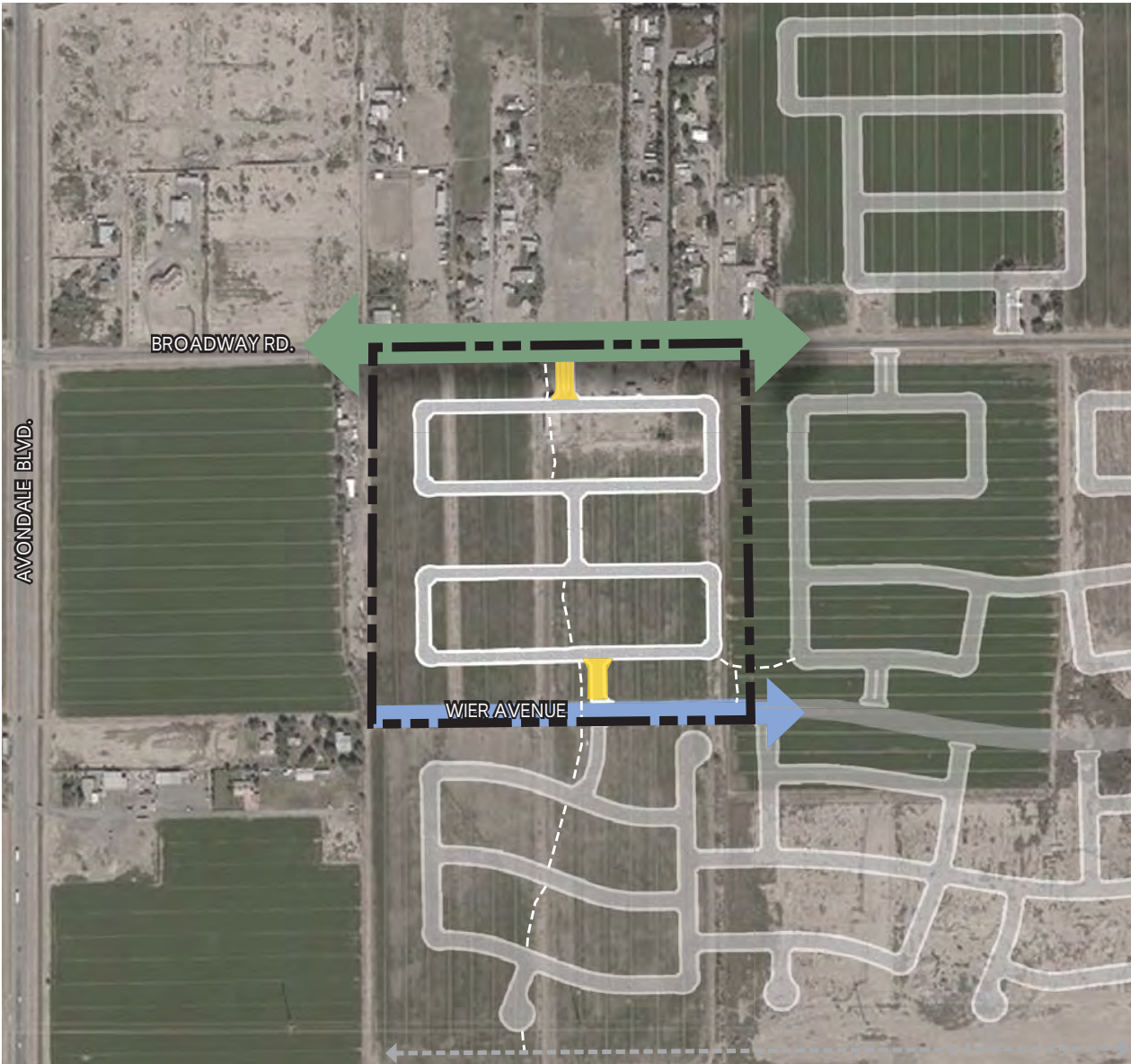


LEGEND

- 6325 DISTRICT
- 5750 DISTRICT
- PAD BOUNDARY

SCALE: N.T.S.





LEGEND

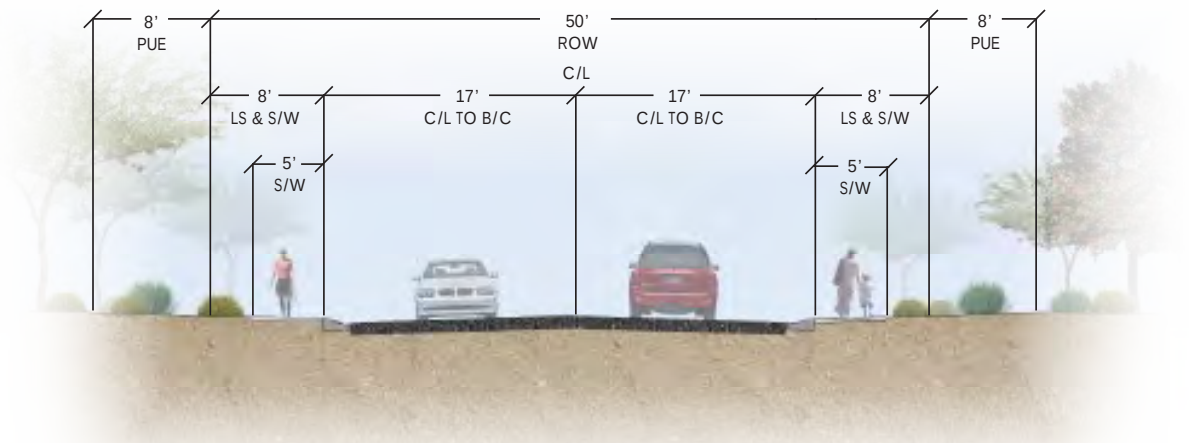
- 100' MINOR ARTERIAL
- 80' COLLECTOR ROADWAY
- 50' LOCAL ROADWAY
- 60' LOCAL ENTRY ROADWAY

- PAD BOUNDARY
- NEIGHBORHOOD TRAIL

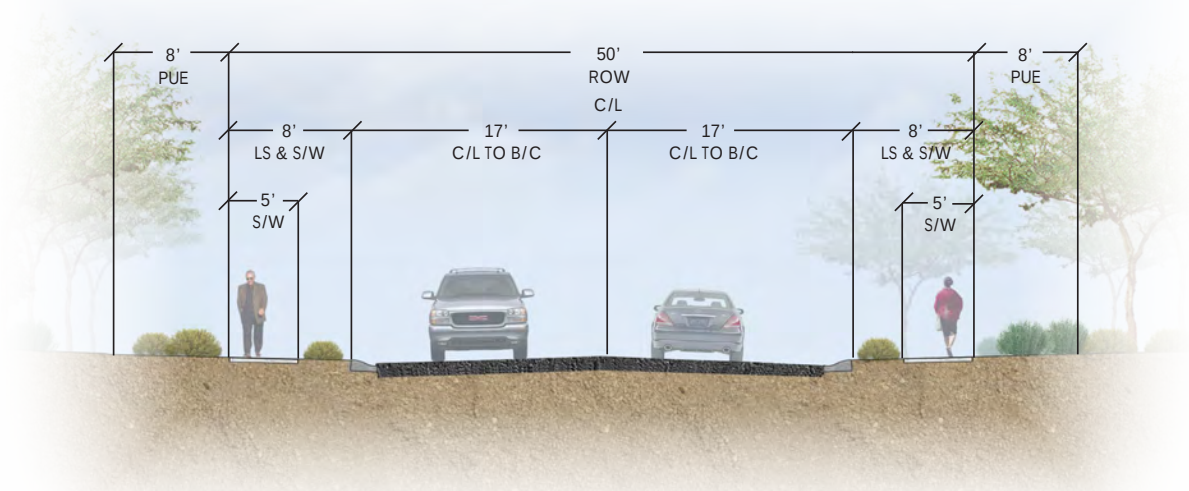
NOTE: LOCAL ROADWAY NETWORK IS CONCEPTUAL AND SUBJECT TO CHANGE.

SCALE: N.T.S. 

EXHIBIT H | STREET SECTIONS

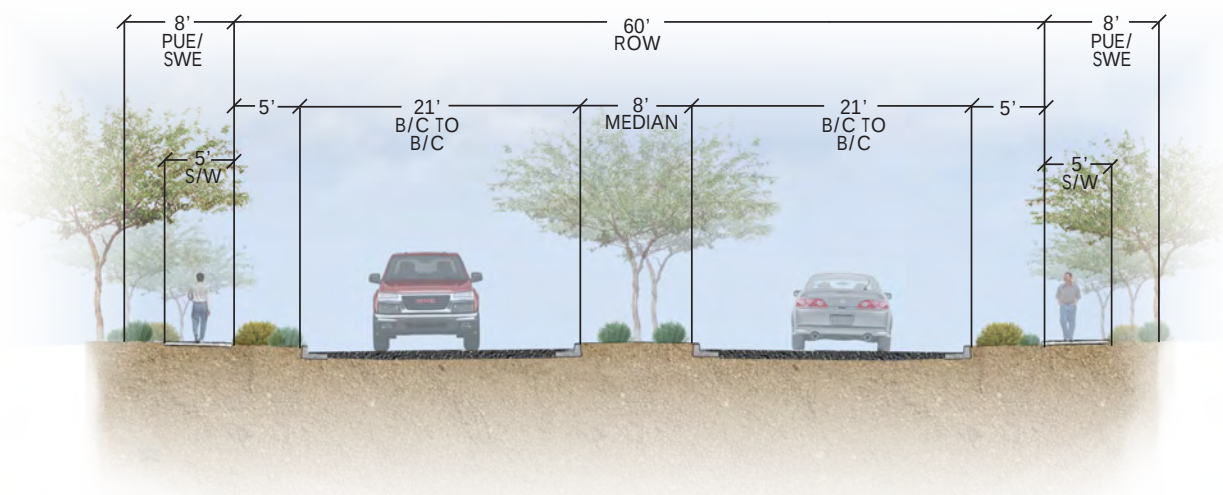


50' LOCAL ROAD WITH ATTACHED SIDEWALK

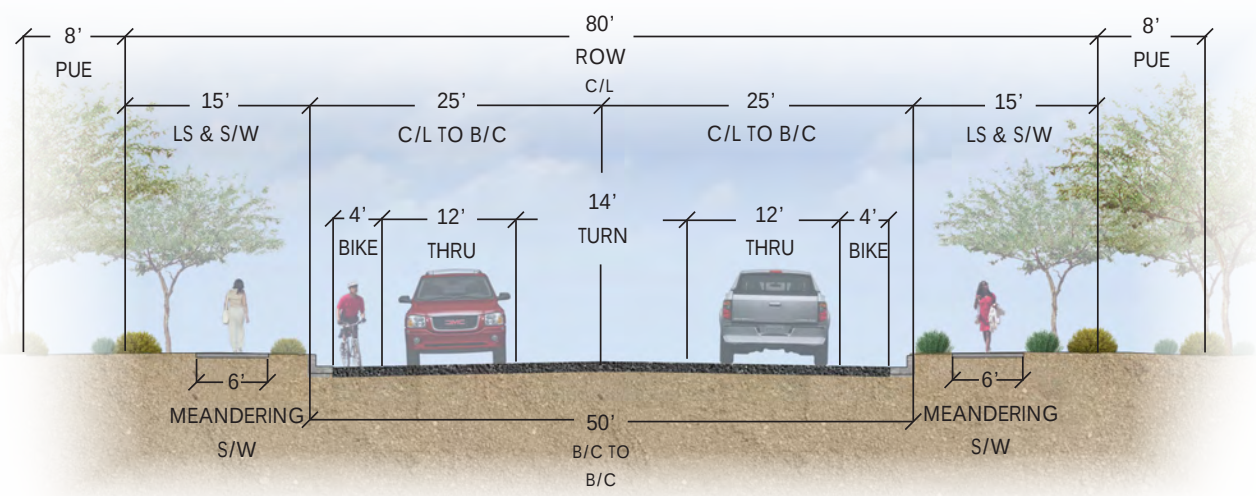


50' LOCAL ROAD WITH DETACHED SIDEWALK

EXHIBIT H | STREET SECTIONS

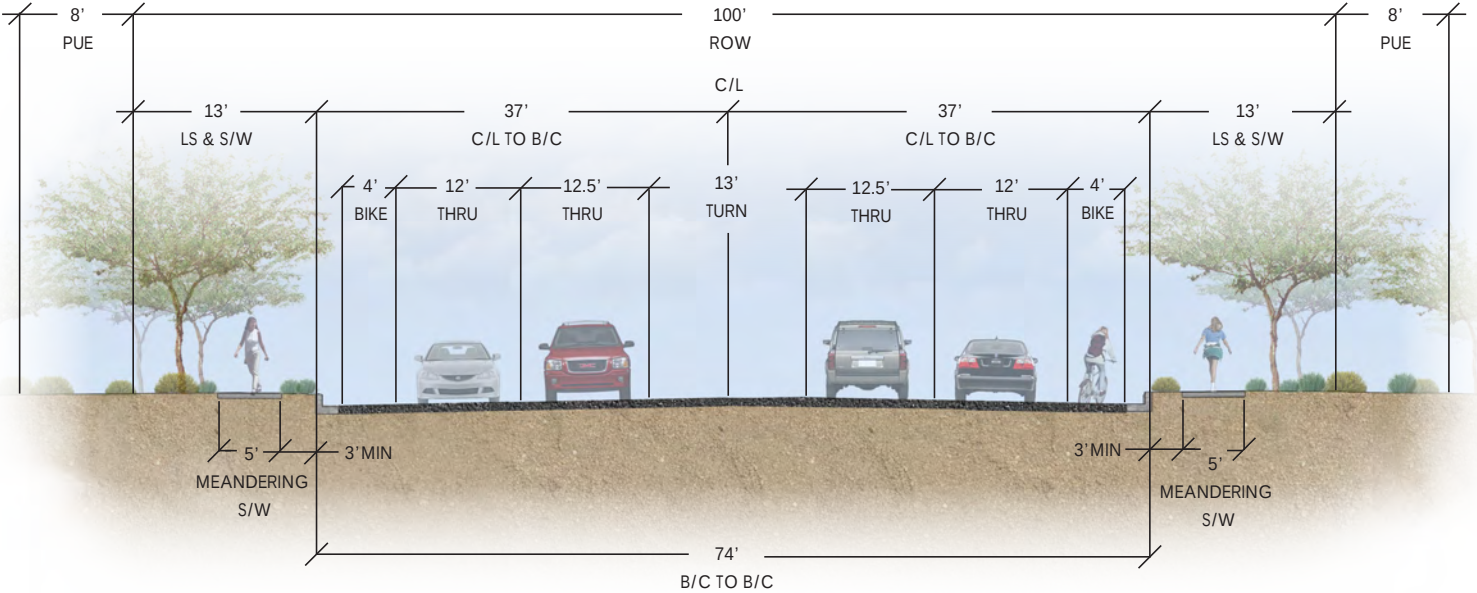


60' LOCAL ENTRY ROAD



80' MINOR COLLECTOR WITH CENTER TURN LANES (WIER AVENUE)

EXHIBIT H | STREET SECTIONS



100' MINOR ARTERIAL (BROADWAY ROAD - ULTIMATE CONDITION)

Landscape

The overall planting design for Verde Trails II is designed to enhance the lush desert theme, utilizing a variety of low water use trees, shrubs and groundcovers to provide shade and visual interest. All plant materials used within public right-of-way shall conform to the Arizona Department of Water Resources (ADWR) low water use plant list and trees located along the Broadway Road street frontage shall be those required by the City of Avondale's Street Tree Master Plan. All proposed plant material will be low maintenance and irrigated by an automatic irrigation system.

While adhering to low water use principles, the plant palette reflects a lush feeling appropriate for the river corridor, which is dominated by masses of Palo Verde and Acacia bosques. Turf is provided as needed for active recreation in the parkette, along the trail corridor, and for retention purposes where appropriate. The landscape design focuses on enhanced desert plantings that provide ample shade, variation in color throughout the year and textural elements.

Open Space, Trails, and Parks

The concept plan for Verde Trails II provides approximately 6.05 acres of open space, or 16% of the net acreage for the property. (See Exhibit I – Conceptual Open Space Plan) Within the community open space, both active usable recreational areas and passive recreational opportunities are provided, as well as areas for drainage retention and storm water conveyance. Approximately 2.6 acres, or 43% of the total open space, is set aside for active and passive recreational open space.

It is important to note that the Property will develop as a part of the Verde Trails Master Planned Community and is anticipated to be governed under one Master Homeowners Association (HOA). In addition to the open space provided within Verde Trails II, the open space associated with the approved Verde Trails PAD includes approximately 69.8 acres (24%), of which a minimum of 17% is set aside for recreational open space. The total open space for the Verde Trails community will be a combined 23%.

Verde Trails II is designed in a similar fashion as Verde Trails, providing a central open space and trail corridor (neighborhood greenway) which allows residents to connect to the various amenities, districts, and neighborhoods within the community. Verde Trails II will provide an extension of the trail system within the Verde Trails community, providing a second north/south trail connection from Broadway Road south to the multi-use trail at the southern edge of Verde Trails Unit 11. This north/south pedestrian and bicycle route will be a combination of sidewalk and neighborhood trail and will include two (2) parkettes (one in Verde Trail II and one in Verde Trails Parcel 11) along its path. The neighborhood trail will be a minimum six foot (6') wide. (See Exhibit J – Trail Section) Connectivity east to Parcel 3, the Games and Gathering parkette and the main neighborhood greenway (all located in Verde Trails) is achieved through trail access provided at the southeast corner of Verde Trails II.

In areas where ambient light is insufficient, pedestrian scale wayfinding lighting will be provided along the neighborhood trail within Verde Trails II at a typical spacing of one hundred foot (100') increments. In areas where the wayfinding lighting is insufficient, a combination of bollards and/or path lighting in shorter increments may be necessary to ensure that wayfinding lights, as reference points, are visible from one to the next.

The centrally located parkette, which is just over one (1) acre in size, is located conveniently to all residents within Verde Trails II and is located along the neighborhood trail network. The parkette is themed 'Picnic & Play' and is anticipated to provide traditional passive and active amenities for residents of all ages and activity levels. The design of the parkette will include at least one shade element, turf area for active play, shaded benches, and pedestrian scale lighting. In addition, the parkette shall also include at least two (2) of the following amenity items (or equivalent):

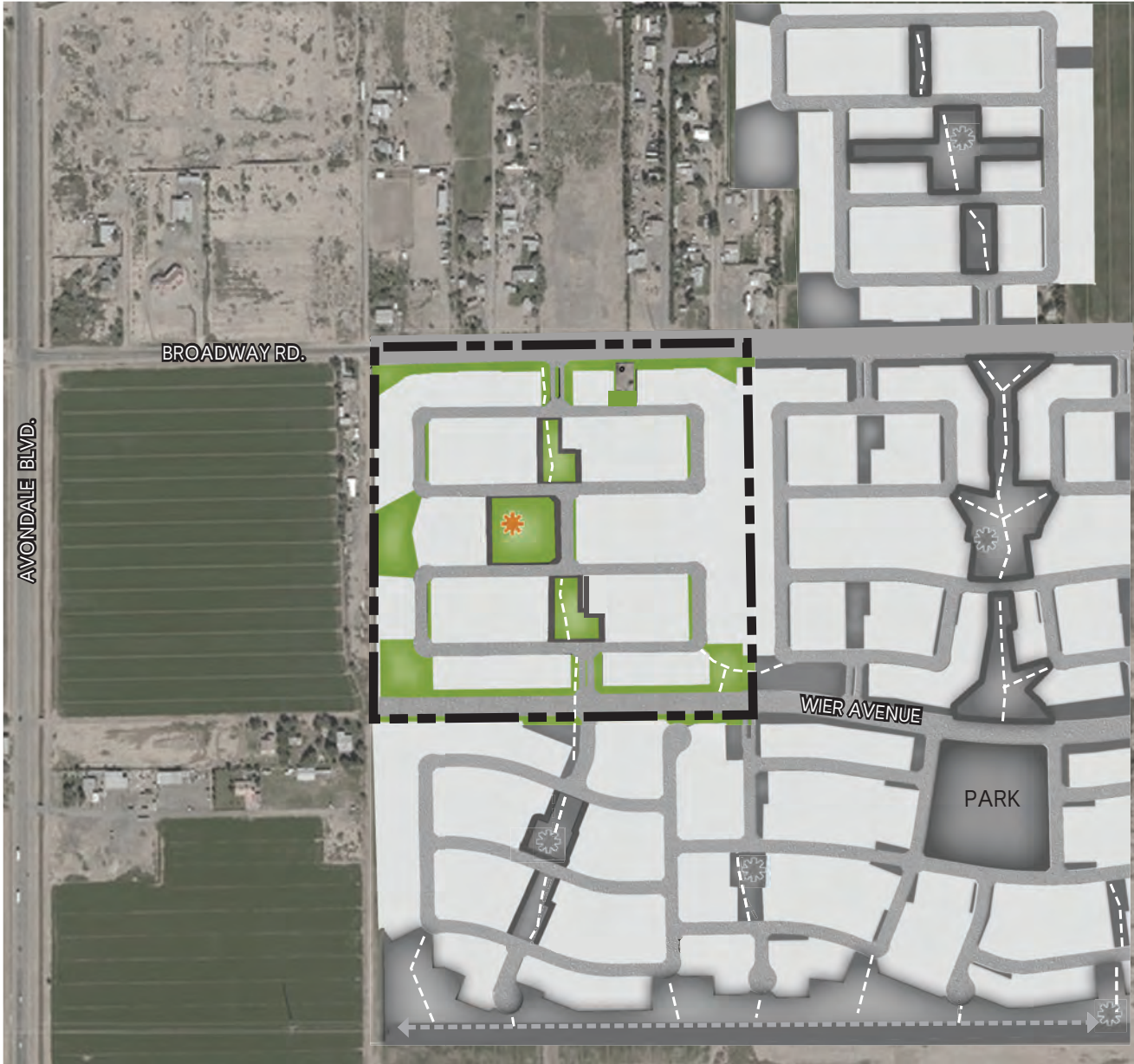
- Play structure and/or feature
- Ramada
- BBQ
- Basketball court (half court)
- Dog Station
- Fire pit with seating
- Table games (chess, ping pong, checkers, etc.)
- Exercise station
- Dog park
- Bocce ball
- Picnic table
- Frisbee golf
- Swing sets
- Picnic grove
- Frisbee lawn
- Tetherball courts
- Meditation garden
- Volleyball court

Note: The parkette will be unique to Verde Trails II and will include a minimum of two (2) amenity items not provided in Verde Trails Unit 1.



CONCEPTUAL LINEAR OPEN SPACE WITH TRAIL

EXHIBIT I | CONCEPTUAL OPEN SPACE



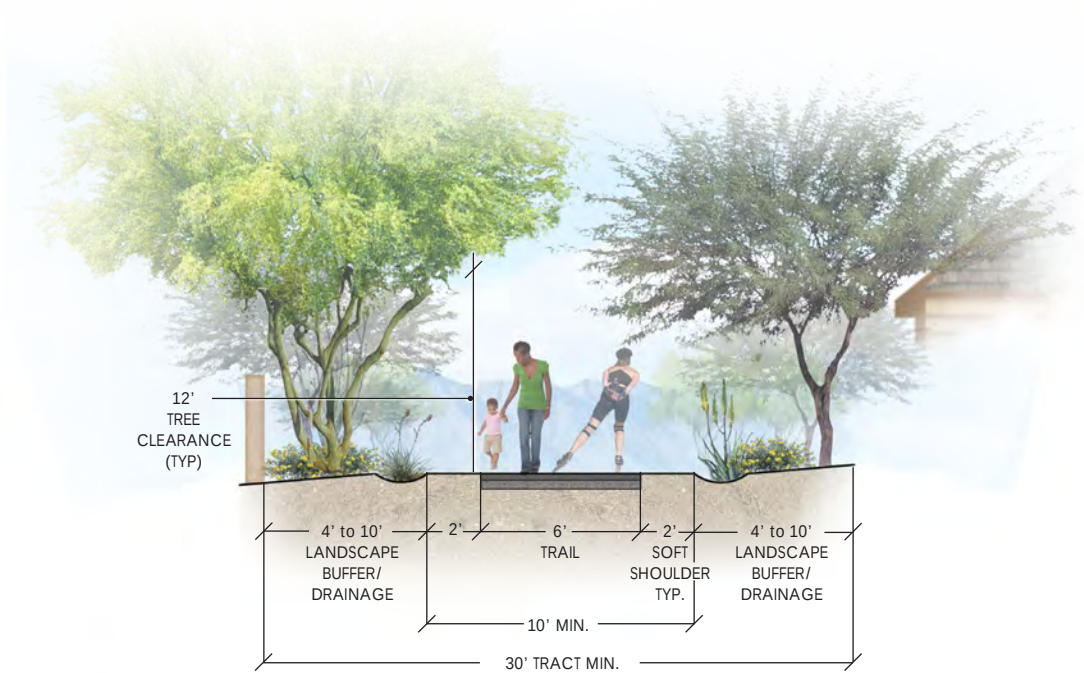
LEGEND

-  PARKETTE
-  NEIGHBORHOOD GREENWAY

-  PAD BOUNDARY
-  NEIGHBORHOOD TRAIL

SCALE: N.T.S. 
NORTH

EXHIBIT J | TRAIL SECTION



NEIGHBORHOOD TRAIL SECTION

NOTE: IN AREAS WHERE AMBIENT LIGHT IS INSUFFICIENT, PEDESTRIAN SCALE WAYFINDING LIGHTING WILL BE PROVIDED ALONG THE NEIGHBORHOOD TRAIL WITHIN VERDE TRAILS II AT A TYPICAL SPACING OF ONE HUNDRED FOOT (100') INCREMENTS. IN AREAS WHERE THE WAYFINDING LIGHTING IS INSUFFICIENT, A COMBINATION OF BOLLARDS AND/OR PATH LIGHTING IN SHORTER INCREMENTS MAY BE NECESSARY TO ENSURE THAT WAYFINDING LIGHTS, AS REFERENCE POINTS, ARE VISIBLE FROM ONE TO THE NEXT.

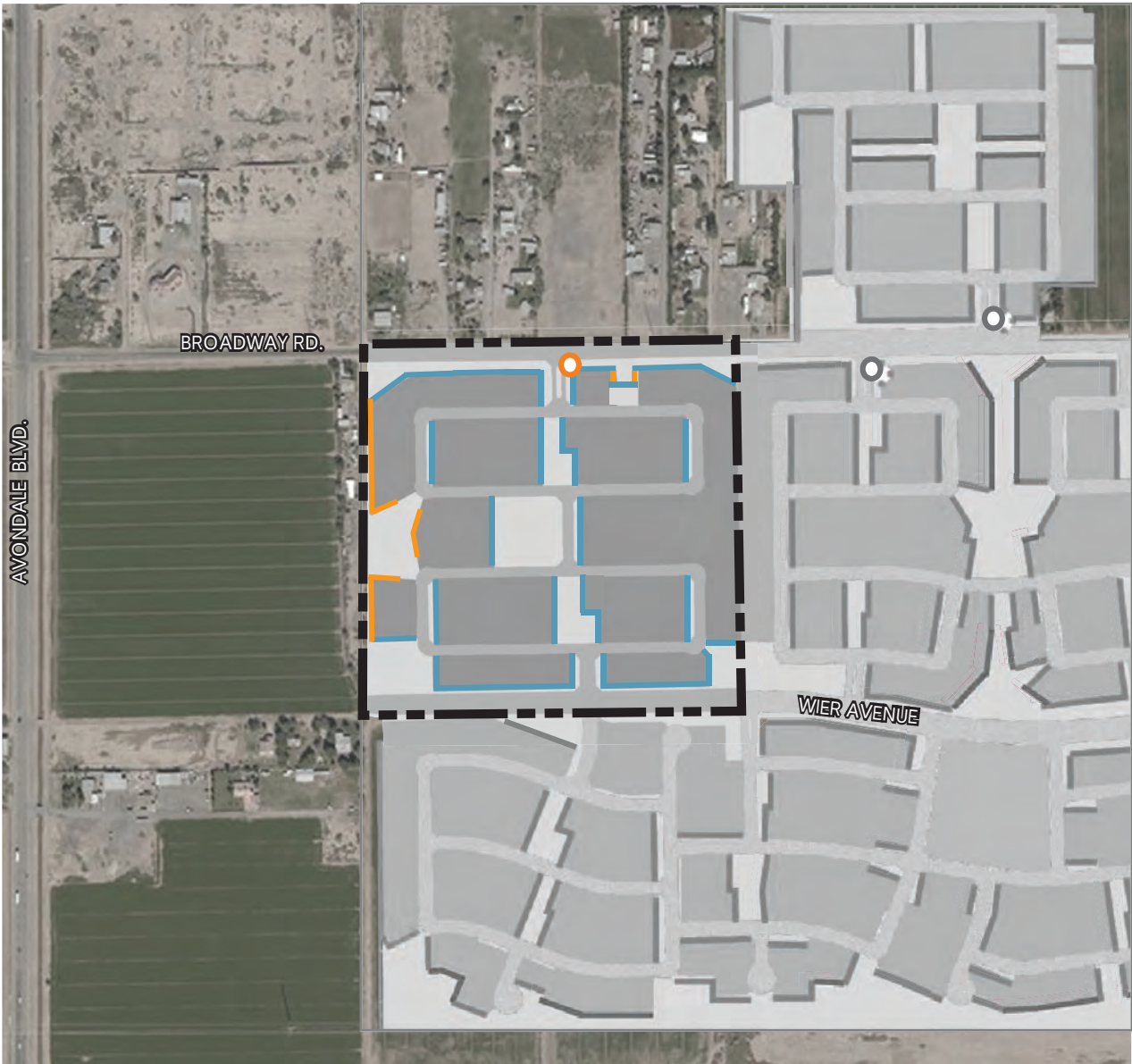
Walls and Monumentation

The proposed walls and entry monumentation are designed to convey the contemporary desert theme throughout the community by consistent use of materials and simple detailing. Wall and entry monument locations are represented on Exhibit K – Wall Plan. Theme walls are provided along homes that back to Broadway Road to the north and Wier Avenue to the south, as well as at high visibility areas internal to the site. The theme wall includes an accent band along the top that represents the linear open space and trail system that runs through the entire length of the Verde Trails II community, as well as a complementary accent column. Theme walls along homes that back to Broadway Road shall incorporate a minimum three foot (3') rear wall stagger to provide variation in the horizontal plane. Along the western property line, homes that back to the County parcels to the west will incorporate a six foot (6') tall property wall constructed of smooth faced masonry block. (See Exhibit L – Conceptual Wall Elevations)

The main entry into the Verde Trails community is located off 107th Avenue at Wier Avenue, which is marked by a major entry monument. Entry into Verde Trails II off of Broadway Road will be highlighted with a minor entry monument that will match the other minor entry monuments along Broadway Road that signal arrival into Verde Trails Parcels 2, 3 and 4. The minor entry monument is designed with a curved wall that matches the theme wall in style and color and includes extruded steel letters with powder coated finish to display the community name. Enhanced landscape, consistent with the theme outlined earlier, will assist with creating a sense of arrival into the individual neighborhoods as well as the Verde Trails community. (See Exhibit M - Conceptual Minor Entry Monument)



CONCEPTUAL MAJOR ENTRY MONUMENT FOR THE VERDE TRAILS COMMUNITY



LEGEND

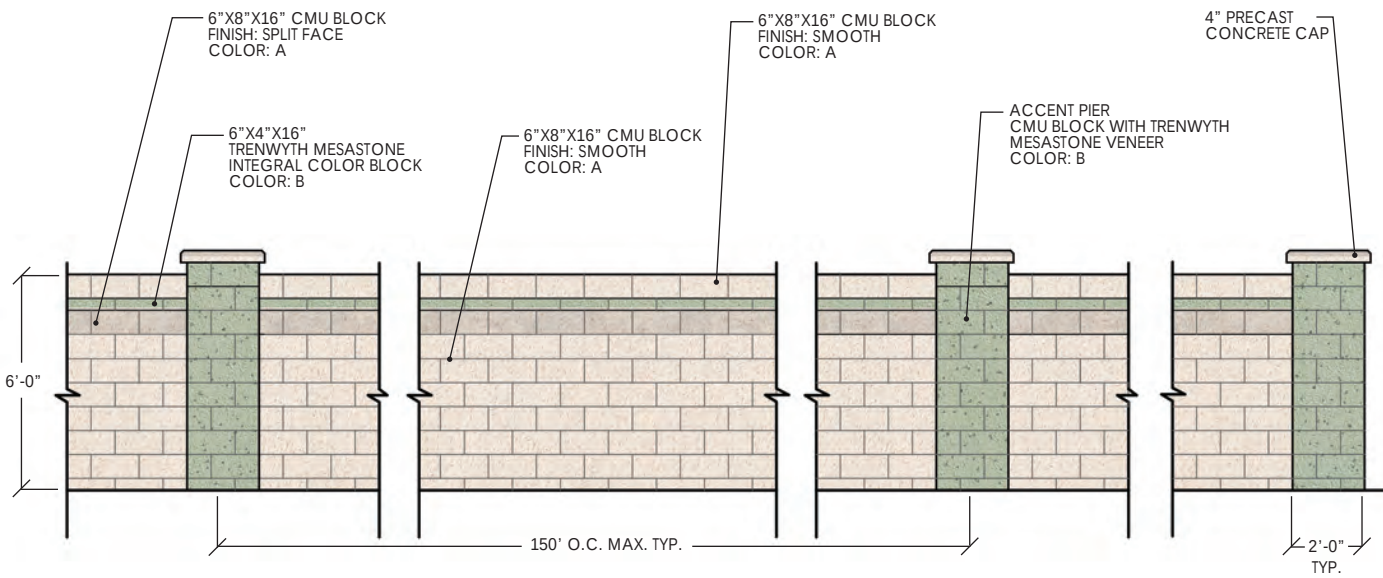
- THEME WALL
- PROPERTY WALL

- PAD BOUNDARY
- MINOR ENTRY MONUMENT

SCALE: N.T.S. 
NORTH

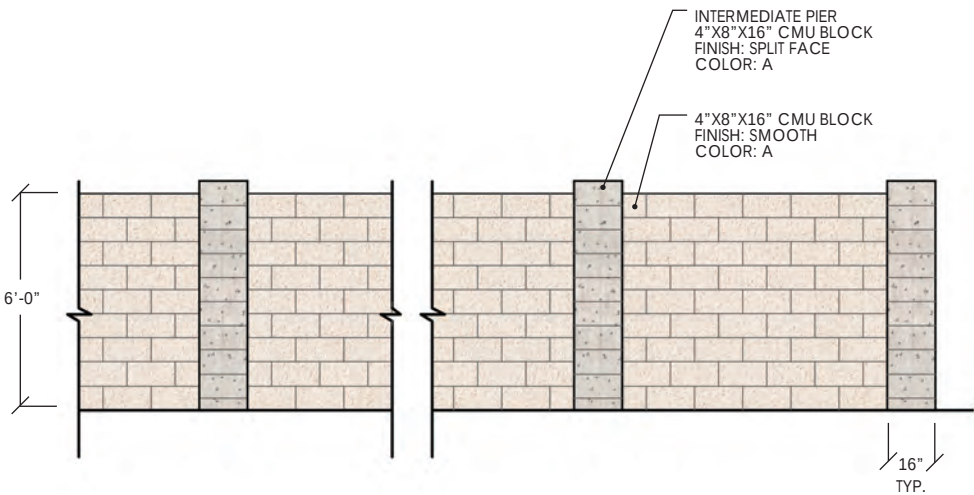
NOTE: WALL TYPES AND LOCATIONS
ARE CONCEPTUAL AND SUBJECT TO
CHANGE.

EXHIBIT L | CONCEPTUAL WALL ELEVATIONS



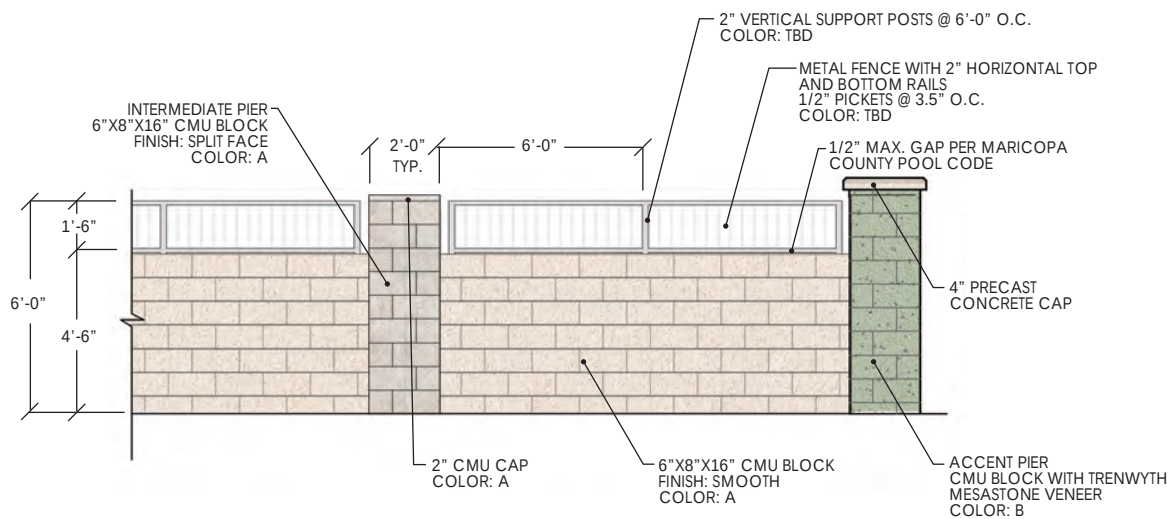
THEME WALL

NOTE: THEME WALLS MUST INCLUDE A CHANGE IN HORIZONTAL PLANE APPROXIMATELY EVERY 150' LINEAR FEET AND/OR AN ACCENT PIER WILL BE PROVIDED (SUBJECT TO CITY APPROVAL). THEME WALLS WITH A TOTAL WALL LENGTH OF LESS THAN 300', LOCATED IN END TRACT LOCATIONS, WILL ONLY BE REQUIRED TO PROVIDE AN ACCENT PIER AT THE END OF WALL RUNS.

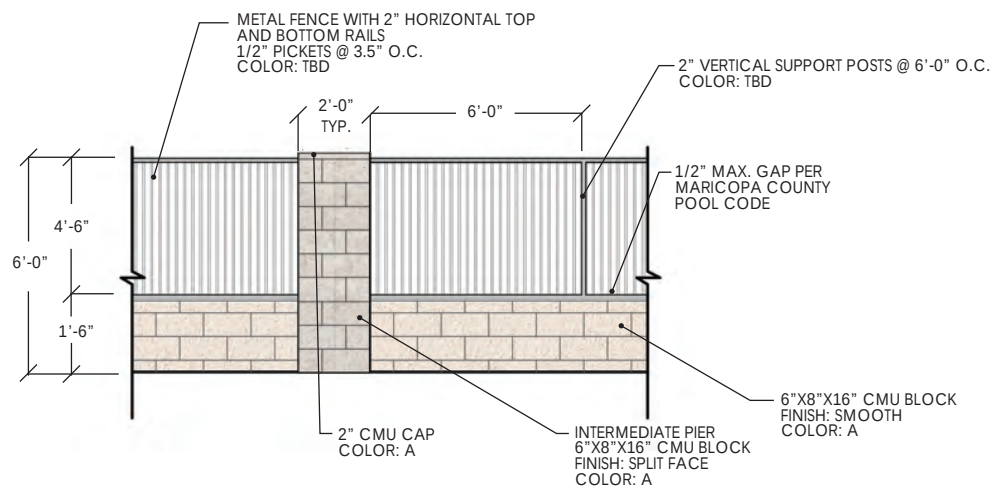


PROPERTY WALL

EXHIBIT L | CONCEPTUAL WALL ELEVATIONS



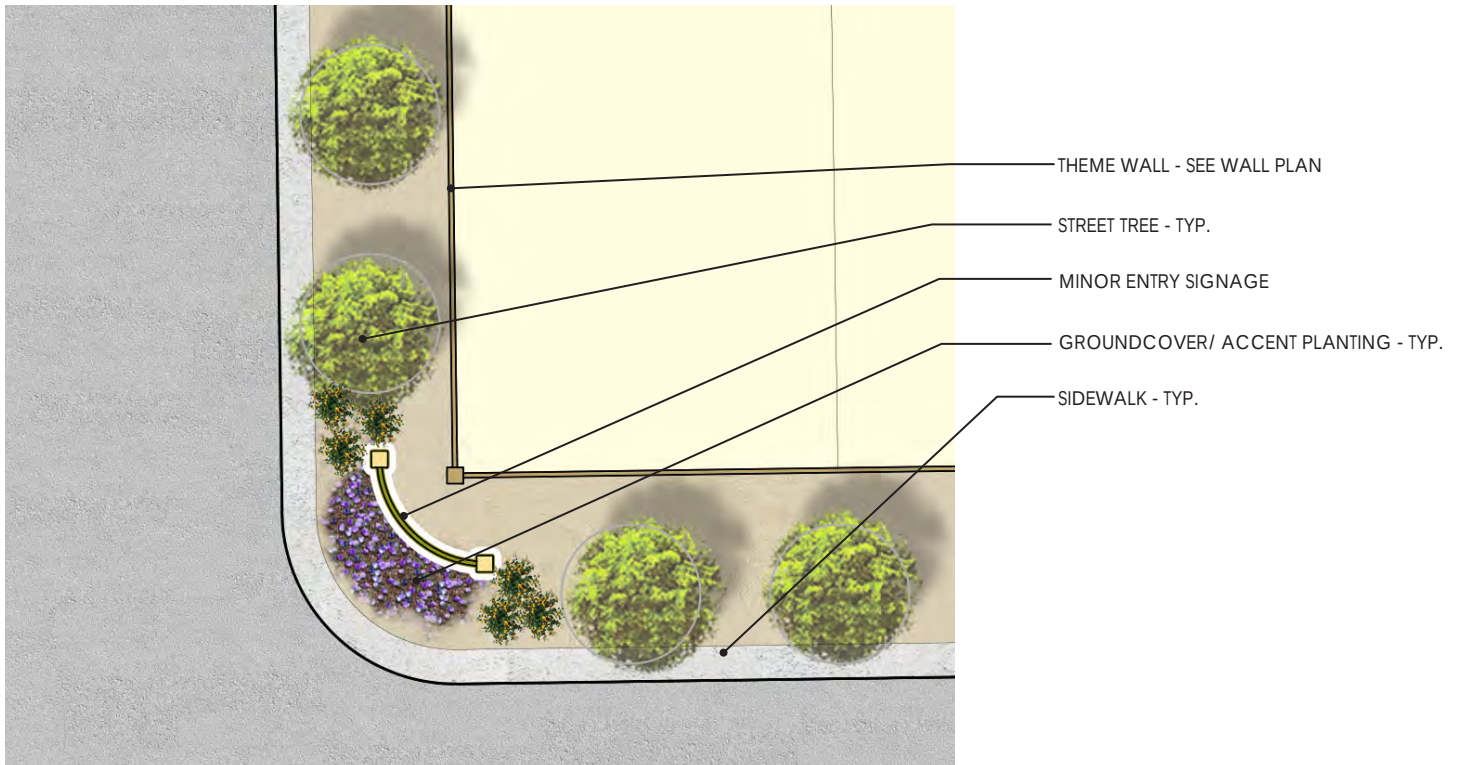
PARTIAL VIEW FENCE



FULL VIEW FENCE

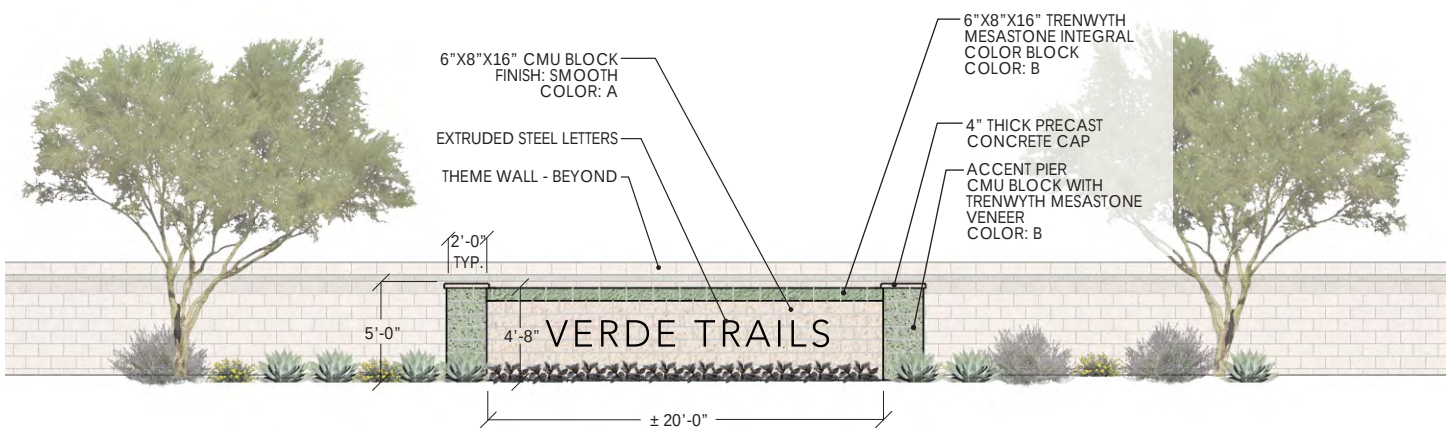
NOTE: VIEW FENCES WILL INCORPORATE AN ACCENT PIER WITH 4" PRECAST CONCRETE CAP APPROXIMATELY EVERY 150' LINEAR FEET ON CENTER, OR AS APPROVED BY THE CITY.

EXHIBIT M | CONCEPTUAL MINOR ENTRY MONUMENT



MINOR ENTRY MONUMENT - PLAN

SCALE: N.T.S.



MINOR ENTRY MONUMENT - ELEVATION

Compliance with the General Plan

The General Plan for the City of Avondale outlines specific goals and objectives in order to provide structure for developing new communities. Verde Trails, including Verde Trails II, recognizes these goals, and has been designed accordingly. According to the General Plan, when these standards are exceeded, the density of the community is permitted to increase. It states that “... *the appropriate density will be determined by a multitude of factors: existing and planned adjacent developments; infrastructure to include streets, parks, and schools; provisions for public transit services and facilities, neighborhood interaction and sustainability - its walkability, design, amenities, active and passive dedicated open space, and the overall character of the area proposed that includes energy efficient design and promotes a healthy and livable community. All factors stated above should be considered and integrated to increase densities above the target...*”

Verde Trails II is intended to be an extension of the Verde Trails community, therefore it is important when analyzing this PAD request, that it is viewed in the greater context, as well as a stand alone forty (40) acre residential development. Verde Trails II will include a minimum of 16% open space and have a maximum residential density of 3.7 du/ac. When combined with the Verde Trails PAD, the total provided community open space will be a minimum of 24%. Verde Trails II is designed in an efficient manner, yet, it builds upon and furthers the high level open space and amenity programming, connectivity, and design theme of the approved Verde Trails PAD, creating a walkable and well designed community.

Verde Trails, including Verde Trails II, conforms to the General Plan goals in these areas:

Land Use

- *Goal 4: Policy A - Encourage annexations that benefit the quality of life for Avondale residents and are in the best interest of the City.*

As part of the rezone process, the Verde Trails II property is requesting annexation from Maricopa County into the City. This annexation will assist with generating more developable residential land within the City to allow the residential market offerings to expand, as well as further the improvements of Broadway Road, a minor arterial roadway that provide connectivity between 107th Avenue and Avondale Boulevard. Although only half street improvements (south side) for Broadway Road will be required with the development of Verde Trails II, per the request of City Staff, the annexation request includes the future full street right-of-way width so that the future full improvements of Broadway Road will be completely within Avondale jurisdiction.

- *Goal 6: Policy D - Goal 6: Policy D - Coordinate connectivity opportunities with neighboring communities when creating pedestrian and non-motorized trail systems.*

The trail and path system located within Verde Trails II connects residents through the internal open space network, connecting residents to the centralized amenity area and to each other. The pedestrian network in Verde Trails II is designed to expand upon and tie into the neighborhood trail system within the Verde Trails community, providing direct access to Parcel 11 to the south and Parcel 3 to the east. The addition of the trail and path network in Verde Trails II provides a second non-vehicular, north/south neighborhood trail network within the Verde Trails community.

Neighborhoods

- *Goal 4: Policy A - Encourage builders to construct homes that use the latest energy conservation materials, methods, and techniques.*

Most of the homebuilders that are development partners with Harvard use energy conservation materials, methods and techniques in the homes that they build. It is the desire of Harvard to create a sustainable community that is sensitive to energy conservation in all aspects of design, both built form and landscape.

- *Goal 4: Policy B - Support creatively designed subdivision layouts, particularly layouts in which open space and recreation areas containing amenities are thoughtfully integrated throughout.*

The design of Verde Trails II places the emphasis on community open space by incorporating a central open space corridor that links residents by way of a neighborhood trail and path system to the central

parkette, as well as by providing a visual connection that runs the length of the site. The Picnic & Play themed parkette will provide a central location for residents to gather and recreate together. Verde Trails II is designed to provide connectivity to the trail system within the Verde Trails community, unifying the open space and recreation areas as one thoughtfully integrated design element.

- *Goal 4: Policy E - Endorse the use of Crime Prevention Through Environmental Design (CPTED) principles when designing residential communities.*

The design of the open space areas within Verde Trails II have been strategically designed to be appropriately scaled, have frontage onto roads, and provide excellent visibility. The open space and its components, the parkette and neighborhood trail, is front and center and well connected throughout the length of the site.

Open Space

- *Goal 2: Policy C - Link community parks to open spaces, other community facilities, and each other as a means to providing further physical activity for one's well-being.*

Verde Trails II will provide approximately a quarter mile of trails and pathways through its central open space network, linking residents to the central parkette and providing connectivity to the Verde Trails community. The trails within Verde Trails II will be in addition to the over 2.5 miles of internal off-street trails and community paths currently planned within the Verde Trails community. The community-wide open space and trail network accounts for almost a quarter of the residential acreage and connects residents to neighborhoods, as well as to the commercial district and central neighborhood park.

- *Goal 2: Policy I - Encourage shared connections where appropriate.*

Verde Trails II, for all intents and purposes, is an extension of the Verde Trails community and provides connectivity through the design of the open space and trail system. There will be two (2) points of pedestrian connectivity between Verde Trails and Verde Trails II. A trail segment in the southeast corner of Verde Trails II will connect to the southwest corner of Verde Trails Parcel 3 and the north/south open space and trail corridor in Verde Trails II will line up with the open space and trail corridor located in Verde Trails Parcel 11. In addition, vehicular connectivity is provided between Verde Trails II and Verde Trails Parcel 11 by aligning the entries across from one another on Wier Avenue.

Recreational Amenities

- *Goal 1: Policy A - Continue to ensure that private development provides local, accessible neighborhood parks and tot lots under the management of a Home Owners Association.*

Verde Trails II includes a centrally located parkette which will be over an acre in size. The Picnic & Play themed parkette will include a minimum of two (2) amenity items not provided in Verde Trails Unit 1. A Homeowners Association (HOA) with the duty of preserving the ongoing integrity of the Verde Trails community will be responsible for maintaining common area throughout the community, including the parkette.

Compliance with Avondale Strategic Five Year Plan

The Avondale Strategic Five Year Plan ("the Strategic Plan") outlines initiatives and goals to assist in continuing on the path for building a family friendly and economically robust community vision for the City of Avondale. The Strategic Plan focuses on the continued development of diverse offerings in recreation, entertainment, services, education and residential development to foster a high degree of neighborhood livability where residents can live, work, play and invest. The overall Verde Trails community is designed to promote a strong sense of community, integrating a variety of uses including commercial, residential, and recreation, that are all connected through an extensive trail system. Verde Trails II will be an extension of the Verde Trails development, providing connectivity through the open space and trail system and including its own centrally located themed parkette. Verde Trails is envisioned as a neighborhood focused master planned community, with a variety of housing options to cater to multiple lifestyles and a wide range of incomes, which furthers the goals of the Strategic Plan. Verde Trails II furthers this initiative by providing two (2) new lot sizes which are not currently offered within the Verde Trails community, providing a total combination of a minimum of nine (9) different lot sizes between the two (2) PADs.



DEVELOPMENT STANDARDS

Verde Trails II consists of two (2) Neighborhood Residential Districts, which include the 6000 District and 6325 District. The Residential Development Standards below shall replace the development standards as shown in the City of Avondale Zoning Ordinance, Section 2, Residential Districts, 205 - Development Standards. It is the intent of these development standards to be comparable to the City of Avondale R1-5 (Single Family Residential) zoning district with modifications as shown herein.

The following chart displays the residential zoning districts for the Verde Trails II PAD. These districts are established in order to accomplish an appropriate blend of residential unit types for a viable community that attracts future residents and families. See Exhibit N - Residential Setbacks for a graphic representation of the standards.

Development Standard	Avondale R1-5	Requirements for 5750 District	Requirements for 6325 District
Min. Lot Area	5,000 S.F.	5,750 S.F.	6,325 S.F.
Min. Lot Width	50'	50'	55'
Min. Lot Depth	100'	115' ⁽⁷⁾	115' ⁽⁷⁾
Max. Height	30'	30'	30'
Max. Bldg. Coverage	45%	55%	55%
Min. Setbacks:			
Front	20' ⁽⁴⁾	10', 12' & 20' ⁽⁶⁾	10', 12' & 20' ⁽⁶⁾
Min. Side ⁽¹⁾	10' / 0' ⁽⁵⁾	5'	5'
Total Sides ⁽²⁾	15'	10'	10'
Rear	15'	15'	15'
Street Side ⁽³⁾	10'	10'	10'

Notes:

(1) A minimum 5' side setback will be required. In all conditions with a 5' / 5' side setback, the air conditioning unit would be required to be placed in the rear yard and/or should be located on the side yard opposite the access gate. Minimum separation between buildings on adjacent lots to be per fire code.

(2) Fireplaces, bay windows and other building pop-outs will encroach into front, side and rear setbacks a maximum of 3'.

(3) Not required when adjacent to a 10' landscape tract.

(4) Minimum front yard setback may be reduced by five (5) feet when providing a side-entry garage.

(5) Minimum 10' separation between buildings on adjacent lots.

(6) Measured from back of sidewalk: 20' to face of garage, 12' to livable area, and 10' to side-entry garage or non-structural architectural features such as low masonry walls, wrought iron gates, and arbors. Variation allows incorporation of side-entry garages, forward living space, and features that will enhance architectural diversity.

(7) Lot depth may be reduced by 5' when fronting a knuckle, as long as the minimum lot area is met.

Justification and Mitigation

This PAD requests a modification to two (2) of the City's R1-5 Development Standards: 1) maximum building coverage and 2) side yard setbacks. In order to provide direct access to Broadway Road to the north and Wier Avenue to the south, create an efficient internal roadway system without sacrificing the open space network, allow for the maximum number of homes with the preferred north/south solar orientation, and have the ability to offer two (2) lot sizes, flexibility and relief in the above mentioned development standards is requested. As further justification for this request, the minimum lot depth has been increased from one hundred feet (100') to one hundred fifteen feet (115') and the minimum lot area from 5,000 S.F. to 5,750 S.F.

EXHIBIT N | RESIDENTIAL SETBACKS



SETBACKS
 FRONT*: 10' TO COURTYARD OR SIDE ENTRY GARAGE
 12' TO LIVABLE
 20' TO FACE OF GARAGE
 *Measured from back of sidewalk
 SIDES: 5' (10' TOTAL)
 REAR: 15'

DISTRICTS: 5750 & 6325



DESIGN GUIDELINES

Residential Architecture Design Guidelines

Harvard is committed to creating a distinctive master planned community at Verde Trails and is excited to include the forty (40) acre Verde Trails II property as part of the overall community. In order to control the design and create a unique and masterfully designed and developed community, the developer has created design guidelines to shape and control the development of Verde Trails. Product diversity will be evident throughout the community. The design and site planning concepts are outlined below, and reinforce a sustainable, quality neighborhood. It is not the purpose of these Design Guidelines to create look-alike homes or to suggest that they all have identical colors and materials. On the contrary, these guidelines serve to facilitate the creation of a community that is at once unique and cohesive both within the community of Verde Trails, and the surrounding communities within the City of Avondale. The Design Guidelines found below supersede the Single Family Residential Design Manual and incorporate many concepts outlined in the Manual, tailored specifically for the Verde Trails community.

Architectural Diversity

Floor plans, elevation styles, rooflines, and color schemes shall be varied to avoid monotony and repetition when planning a streetscape. Verde Trails II contains two (2) lot types. Each lot type will have four (4) product lines, each with a distinct floor plan. Each floor plan will have three (3) distinct architectural elevations. This creates a minimum of twelve (12) unique home elevation combinations for each lot size, and twenty-four (24) total architectural combinations for Verde Trails II. These twenty-four (24) possible architectural combinations provide for rich diversity of housing within Verde Trails II. Some guidelines to follow when designing the community are as follows:

- A variety of plan orientations is encouraged - there will be up to twenty-four (24) distinct product elevations and a minimum of two (2) lot sizes.
- No two (2) adjacent homes or homes across the street from one another will use the same elevation, standard or reversed.
- No two (2) adjacent homes or homes across the street from one another will use the same paint scheme.
- A minimum of eight (8) different color schemes per plan will be offered.
- A minimum of three (3) different roof styles and four (4) different roof colors will be provided. Roof styles include hip, gable, and clipped hip roof styles.
- No more than two (2) two-story homes shall be adjacent to one another along arterial streets (Broadway Road).
- The use of any one plan shall be limited to no more than 50% of the total platted plans in Verde Trails II.
- The use of any style shall be limited to no more than 50% of the total homes built in Verde Trails II.

Architectural Styles

This section illustrates examples and defining characteristics of each architectural style that shall be used within Verde Trails II. These styles are both unique in individual character and complementary to one another, in order to promote harmonious diversity within the community. The styles are both timeless and practical in the context of production housing. See Exhibit O – Sample Conceptual Elevations for examples of residential house product that may be provided within Verde Trails II. These guidelines serve as a reference to both maintain the integrity of the design intent, and avoid incorporating any inconsistent elements into the community. Not all of the elements described in the following architectural styles are required on each home, unless specifically noted.

- A minimum of three (3) elevations for each plan is required.

- The use of a covered porch, courtyard, balcony, or a front covered entry of no less than twenty (20) square feet is encouraged.
- Rear yard covered patios shall be architecturally integrated into the design of the homes.
- Homes will be designed to minimize the impact of the garage on the architecture. Front yard setbacks may be reduced in accordance with Avondale Zoning Ordinance Section 205 (A) when side entry garages are used or when garages are recessed a minimum of five feet (5') behind the living area of the home.
- Side entry garages are encouraged in order to provide architectural diversity, as well as diminish the impact of the garage on the front elevation of the home.
- All street facing garage doors shall be decorative in design and/or incorporate windows for visual interest.
- At a minimum, one (1) elevation for each architectural style shall provide, as an option, a driveway constructed of decorative pavers.
- Street facing garages shall be recessed a minimum of three (3) feet from the face of a home, inclusive of a front porch or patio, on all lots narrower than sixty (60) feet.

Spanish Colonial / Hacienda

Spanish Colonial/Hacienda, is really a catalog of styles, unified by the use of arches, courtyards, form as mass, plain wall surfaces, and tile roofs, all derived from the Mediterranean world. With strong lines, simple massing, and an informal look, the style is differentiated by the ornate wrought-iron detailing and use of rustic wood-like beams, rafter tails, and other details. Below is a list of features that may be used to authentically develop Spanish Colonial/Hacienda style architecture.

Massing/Form

- Informal plan arrangement
- Asymmetrical massing
- Courtyards, loggias, and patios
- Simple one and two-story massing
- Low-pitched predominantly gabled rooflines
- Shallow or flush overhangs
- Thick walls and deep openings

Finish/Details

- Stucco exterior walls
- Arched windows and openings
- Rustic wood-like rafter tails
- Decorative wrought-iron details
- Clay tile gable and vents

Materials/Colors

- Light-colored exterior walls
- Barrel style roof tiles
- Predominantly red clay color
- Divided window panes



Territorial Ranch

The history of Territorial design dates to the 1800s. Homesteaders developed a style of building that is still honored today. Their homes were made from available regional materials like timber and rock that was honed by hand. These were sturdy homes that had to withstand extreme weather, marauding bandits, and long lives. Contemporary ranch homes also incorporate elements of the Colonial, Monterey, and Spanish architectural styles. Below is a list of features that may be used to authentically develop Territorial Ranch style architecture.

Massing/Form

- Simple one and two-story rectangular masses
- Porches and patios
- Low-pitched predominantly gabled and shed rooflines
- Gabled dormers
- Deep overhangs

Finish/Details

- Stucco, faux-stone, wood, and brick exterior walls
- Stucco and faux-stone chimneys
- Exposed rustic wood-like beams and posts
- Rectangular windows and openings
- Exposed rustic wood-like lintels and rafter tails
- Rustic wood-like shutters

Materials/Colors

- Medium to dark colored exterior walls
- Barrel tile, shake style, or partial metal roof
- Divided window panes on front and street-side elevations



Craftsman / Bungalow

Craftsman/Bungalow style architecture embraces simplicity and handiwork, representing the arts and crafts lifestyle and philosophy which originated near the turn of the 20th century. Architectural form is based on a more functional aesthetic, natural materials, and a greater degree of craftsmanship. Architects and designers of homes of this style believe a simple architectural style which is less pretentious, leads to a healthier, more comfortable and productive life. Below is a list of features that may be used to authentically develop Craftsman/Bungalow style architecture.

Massing/Form

- Low-pitched roof lines, gabled or hipped roof
- Deeply overhanging eaves
- Front porch beneath extension of main roof
- Tapered, square columns supporting roof
- Symmetrical

Finish/Details

- Frank Lloyd Wright design motifs
- Hip roof
- Two-storied bays
- Gables
- Turrets
- Exposed rafters or decorative brackets under eaves

Materials/Colors

- Local natural materials
- Hand-crafted stone or woodwork
- Stucco and brick



EXHIBIT O | SAMPLE CONCEPTUAL ELEVATIONS



NOTE: Elevations shown are conceptual and may not represent actual house product that will be offered at Verde Trails II.



ADDITIONAL INFORMATION

Residential Development Approval Process

Unless otherwise required by Avondale's Subdivision Regulations to reduce the number of public meetings and/or hearings, residential development will require:

- Preliminary plat review by both the Planning Commission and the City Council with ultimate approval from the City Council
- Final plat review and approval from the City Council
- Residential building plans to be reviewed administratively for conformance with the residential design guidelines approved within this PAD

Role of Avondale Zoning Ordinance

The requirements of the Avondale Zoning Ordinance, as amended, Avondale Subdivision Regulations, as amended, and Avondale Single Family Residential Design Manual, as amended, shall apply except where explicitly stated otherwise herein by this PAD.

Phasing

Verde Trails II is anticipated to be developed as a single phase. However, if the market dictates a two (2) phase approach, a detailed phasing plan will be provided with the preliminary plat submittal. All off-site improvements are required with the first phase.

Role of HOA

For all intents and purposes, Verde Trails II will be an extension of the Verde Trails community and is intended to be governed under the Verde Trails Homeowners Association (HOA). The structure of the HOA will include a Master Association governing the entire Verde Trails project with possible sub-associations governing individual and/or multiple residential districts and the neighborhood commercial center. The HOA will be responsible for maintaining common area such as, active and passive amenity nodes, the central neighborhood park, landscape tracts, open space, hardscape, monументation and amenities. The HOA will also be charged with maintaining harmony in the community through the implementation and enforcement of design review guidelines, architectural controls and use restrictions.

Community Facilities and Services

The Development Team will be contributing a per-rooftop donation to both the Littleton Elementary School District and the Tolleson Union High School District.

Water, Wastewater, and Utilities

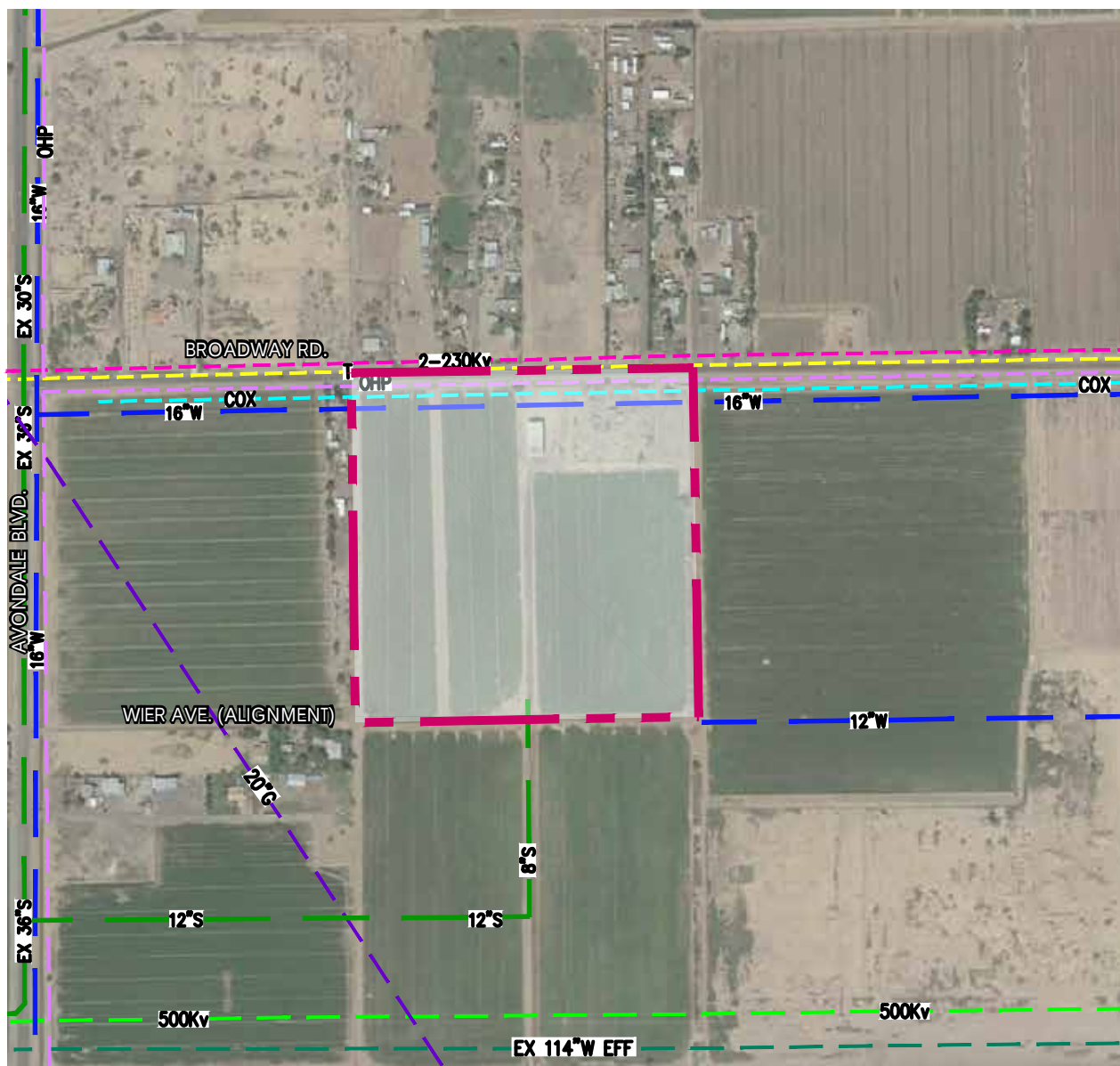
Water and sewer service for Verde Trails II will be provided by the City of Avondale. The City's Water Infrastructure Master Plan (Malcolm Pirnie 2010) and Wastewater Collection System Master Plan & Utility Systems Evaluation (Carollo 2005) provide the ultimate sizes of the water transmission lines and sewer trunk mains in the arterial roadways within the City's planning area. The City reserves the right to pay for up-sizing of any water or sewer mains that do not match the minimum line sizes identified in the most current City master plans.

The waterlines needed to satisfy the City's water supply and pressure standards for the Verde Trails II development include an onsite network of 8-inch waterlines with points of connection to proposed waterlines in Broadway Road and Wier Avenue. As part of Verde Trails Unit I, a 16-inch waterline will be constructed in Broadway Road from Avondale Boulevard to 107th Avenue, a 16-inch DIP waterline will be constructed in 107th Avenue from approximately 1,300 feet north of Broadway Road to Wier Avenue, and a 12-inch waterline will be installed in Wier Avenue from 107th Avenue to the east boundary of Verde Trails II. These offsite water improvements will convey water to the project site. (See Exhibit P – Existing Utilities). The City's Del Rio tank farm will supply water service to the project. Additional details for the proposed water system improvements will be provided in the preliminary water report that will be submitted with the preliminary plat.

The City of Avondale has an existing 36-inch sewer trunk line that extends south along Avondale Boulevard then turns west, north of the Roeser Road alignment, in the vicinity of the Salt River Project (SRP) electric easement. The line continues west to the existing City of Avondale Wastewater Treatment Plant (WWTP) on the west side of Dysart Road. According to the Wastewater Collection System Master Plan & Utility Systems Evaluation, the existing 36-inch sewer line is intended to permanently service all of the area north of the Roeser Road alignment and west of 107th Avenue. The City has planned for the expansion of the WWTP and sanitary sewer collection system to account for wastewater flows from this region. Therefore, it is intended that all of Verde Trails II effluent will be treated at this regional WWTP. Wastewater flows from the Verde Trails II development will be routed through a network of onsite 8-inch sewer mains, which will route flows to an 8-inch sewer stub within Parcel 11 of Verde Trails, which was proposed as part of the Verde Trails Unit I improvements. As shown in the Preliminary Wastewater Report prepared for Verde Trails Unit I, wastewater flows from Verde Trails II (referred to as "Offsite Parcel G" in the report) will be routed through 8-inch and 12-inch sewer mains in Parcel 11, to a proposed 12-inch sewer main just north of the Roeser Road alignment. This main will then convey flows west to the existing 36-inch sewer line in Avondale Boulevard. Tables B.7 and B.8 in the Preliminary Wastewater Report prepared for Verde Trails Unit I provide a capacity analysis for the downstream 12-inch sewer mains, showing that these proposed sewers have been sized to handle the projected wastewater flows from Verde Trails Unit I, Verde Trails II ("Offsite Parcel G"), and from another offsite parcel ("Offsite Parcel F"). Additional details for the proposed wastewater system improvements for Verde Trails II will be provided in the preliminary wastewater report that will be submitted with the preliminary plat.

Southwest Gas has nearby gas facilities available to serve the site. Telephone service to this area is provided by CenturyLink Communications. Cox Communications provides cable television service to the area. The Property is within the Salt River Project (SRP) service area. Existing 12 kV overhead power lines exist along the south side of Broadway Road and will be placed underground with the development of the Verde Trails II property. Information from Southwest Gas, CenturyLink, Cox, and SRP indicate all have facilities available to serve the site.

EXHIBIT P | EXISTING UTILITIES



6.  NORTH

LEGEND

-  EXISTING WATER
  EXISTING 114" EFFLUENT
  EXISTING OVERHEAD POLE
-  EXISTING SEWER
  EXISTING 500KV
  EXISTING CENTURY LINK TELEPHONE
-  EXISTING 20" GAS
  EXISTING COX CABLE LINE
  EXISTING 2-230KV
-  PAD BOUNDARY

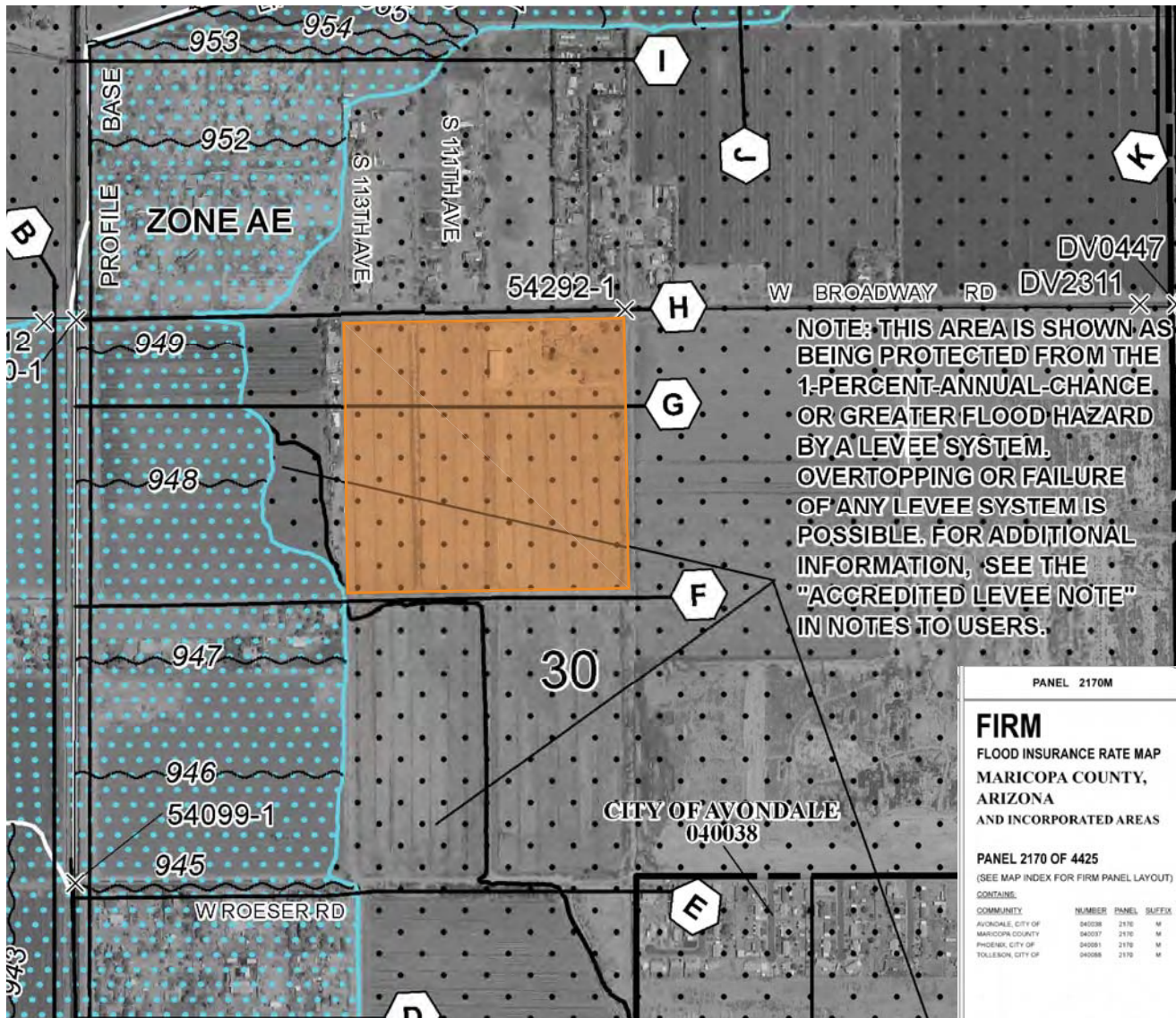
Flood Zones

The Maricopa County, Arizona and Incorporated Areas Flood Insurance Rate Map (FIRM) panel number 04013C2170M, dated November 4, 2015 indicated the subject site falls within Zone "X" (shaded) (See Exhibit Q – FEMA Map).

Zone "X" is defined by FEMA as: Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.

Grading and Drainage

Verde Trails II generally slopes to the south and to the west towards the Gila River, at an average grade of 0.4 percent. (See Exhibit R - Topography) There are no significant sources of offsite flow impacting the project. The site will be graded in a manner that will allow stormwater runoff to drain from the lots into the streets, and from the streets into designated retention facilities. To the extent practicable, natural materials such as stone, turf and appropriate desert landscaping materials shall be incorporated into the drainage facilities used to manage the project's runoff. Retention facilities will provide adequate volume to store the 100-year, 2-hour event through a series of landscaped basins located throughout the site. Retention basins will generally be shallow in nature, having design ponding depths less than or equal to three feet (3'), side slopes will be planned no steeper than 4:1. The retention basins will be designed to drain in less than 36 hours, with infiltrating stormwater serving as a natural source of irrigation to the vegetation within the basins. All finished floor elevations will be set a minimum one foot (1') above the ultimate outfall elevation or a minimum of eighteen inches (18") above the low outfall of the lot, whichever is greater.



LEGEND

 PAD PROPERTY

SCALE: N.T.S. 
NORTH

PANEL 2170M

FIRM
FLOOD INSURANCE RATE MAP
MARICOPA COUNTY,
ARIZONA
AND INCORPORATED AREAS

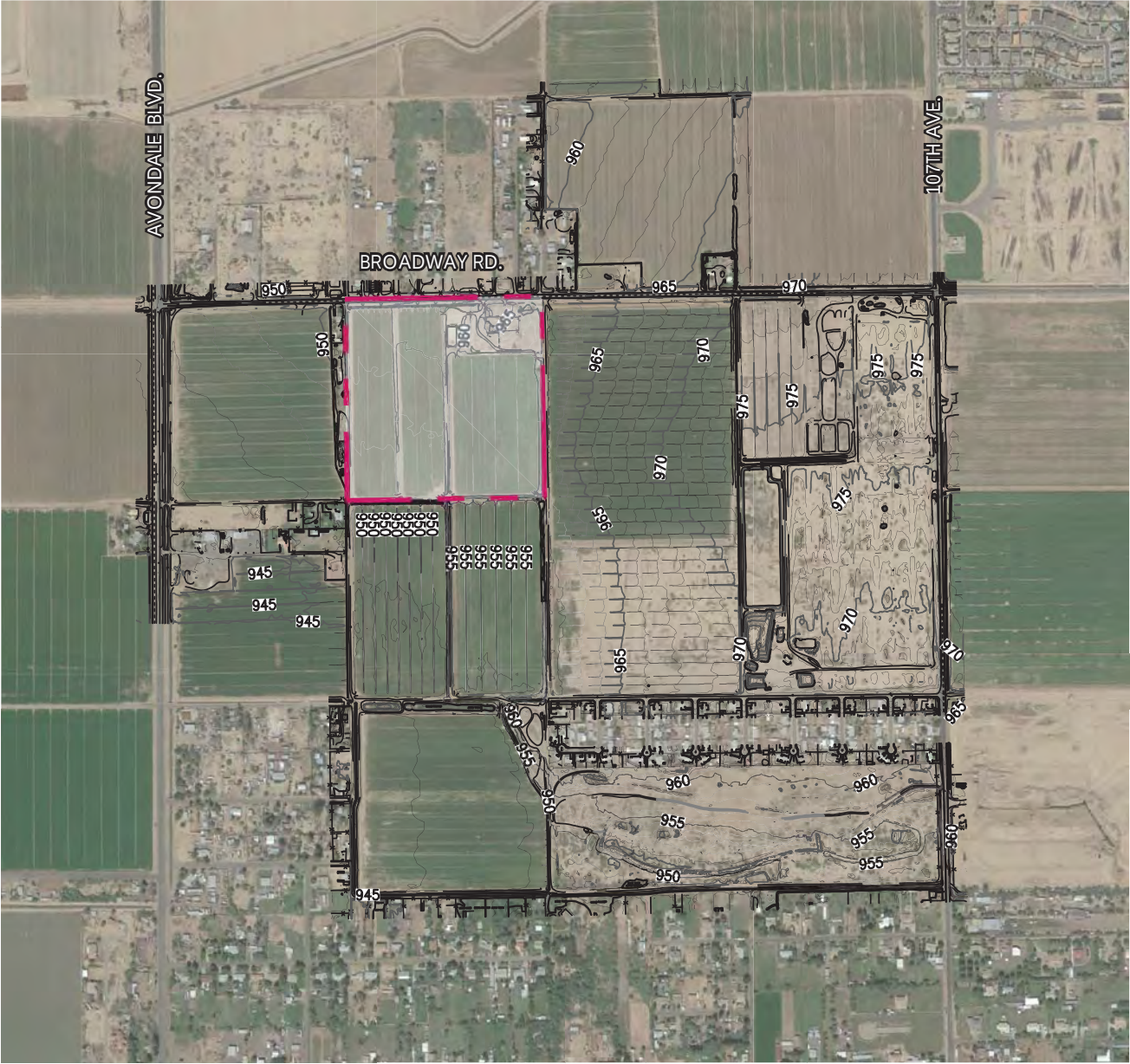
PANEL 2170 OF 4425
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
AVONDALE, CITY OF	040038	2170	M
MARICOPA COUNTY	040037	2170	M
PHOENIX, CITY OF	040061	2170	M
TOLLESON, CITY OF	040068	2170	M

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject community.


MAP NUMBER
04013C2170M
MAP REVISED
NOVEMBER 4, 2015
Federal Emergency Management Agency



LEGEND

--- PAD BOUNDARY

SCALE: N.T.S.  NORTH

Exhibit F

Certificates of Adequate School Facilities

Littleton Elementary School District

Tolleson Union High School District



CERTIFICATE OF ADEQUATE SCHOOL FACILITIES

An application for Rezoning has been submitted to the City of Avondale, Development & Engineering Services Department, for review.

Project: Tobin Project Manager: Ken Galica
Request: Rezone to PAD Acreage/Parcel Size: 39.4 acres
Current Density Allowed: 1 du/ ac Density Proposed: 3.93 du.ac
Total number of residential units proposed: 155

As an authorized representative of the District, please complete the questionnaire below.

Does the District have adequate capacity to accommodate the estimated enrollment from the proposed development?

Yes ☒ No ☐

If answered no, please summarize the needs of the district as they relate to serving the students generated by the proposed development.

Is a school site within the proposed development needed?

Yes ☐ No ☒

If answered yes, how many acres is needed for the school site?

Is the district currently working with the developer to provide or help meet the needs identified above through a developer assistance or impact agreement? Yes No

If answered yes, please explain below:

****If additional writing space is needed, please attach pages to this form****

Date Reviewed: July 24, 2018

School District: Tolleson Union High School District #214

District Superintendent: Nora Gutierrez

Phone #: 623-478-4001

E-mail: nora.gutierrez@tuhsd.org (cc: iudith.jameson@tuhsd.org)

Signature: _____

It is the developer's responsibility to ensure that this form is completed by an authorized representative of the District noted above and returned to the Development & Engineering Services Department prior to the scheduling of any City Council meetings

Development & Engineering Services Department

11465 W. Civic Center Drive, #110, Avondale, AZ 85323 • Phone (623) 333-4000 • Fax (623) 333-0400 • TDD (623) 333-0010
www.avondale.org/developmentservices

Ken Galica

From: Phyllis Kinder <Kinder.Phyllis@littletonaz.org>
Sent: Friday, November 30, 2018 3:15 PM
To: Carolyn Oberholtzer; Ken Galica
Subject: RE: Verde Trails/Tobin School Donation Agreements

Good Afternoon All,

Verde Trails/Tobin have been in contact with Littleton regarding this property. The District is currently awaiting the return of a signed agreement. Once the agreement is fully executed we will be happy to complete the Certificate.

Phyllis Kinder
Chief Operations Officer
Littleton Elementary School District
623-478-5616

From: Carolyn Oberholtzer <coberholtzer@bfsolaw.com>
Sent: Wednesday, November 28, 2018 4:23 PM
To: Ken Galica <kgalica@avondaleaz.gov>; Phyllis Kinder <Kinder.Phyllis@littletonaz.org>
Subject: Verde Trails/Tobin School Donation Agreements

Phyllis-

Ken Galica (included on this email) is the lead planner in Avondale that is handling our rezoning for the Tobin property adjacent to Verde Trails. Could you please confirm that we have been working to complete the attached donation agreement for the Property to address future capacity related to the development of the site? We have our first hearing before the Planning Commission in December and this update would be helpful. Thanks so much.

Carolyn

When recorded return to:)
Littleton Elementary School District No. 65)
Attention: Superintendent)
1600 South 107th Avenue)
Avondale, Arizona 85323)

SPACE ABOVE THIS LINE FOR RECORDER'S USE

**MEMORANDUM OF DONATION AGREEMENT
VERDE TRAILS II, AKA "TOBIN PROPERTY"**

DATE: _____, 2018

**PARTIES: LITTLETON ELEMENTARY SCHOOL DISTRICT NO. 65 OF
MARICOPA COUNTY, ARIZONA,**
a political subdivision of the State of Arizona
Attention: Superintendent
1600 South 107th Avenue
Avondale, Arizona 85323 ("District")

HILLCREST GP, LLC, an Arizona limited liability company
Attention: Chris Cacheris
17700 N. Pacesetter Way, Suite 100
Scottsdale, AZ 85255 ("Landowner")

PROPERTY: Described on Exhibit 1, attached hereto and made a part hereof.

1. Landowner has entered into that certain Donation Agreement with District dated as of _____, 2018, whereby, among other things, Landowner has agreed to pay to District the following amounts for each dwelling unit built on the Property:

Type of Dwelling Unit	Donation (per unit)
House	\$1,000
Townhome	\$850
Condominium	\$750
Apartment	\$600
Mobile Home	\$400

2. The Donation Agreement runs with the land and is binding upon Landowner and all of its successors-in-ownership and assigns, except that the provisions of the Donation Agreement shall be automatically released as to any lot upon the closing of such lot into the name of an individual third-party homebuyer, any transfer of common area to a homeowner's association, or any transfer of a property to a governmental or quasi-governmental entity or public utility.

3. All other terms, conditions and agreements contained in the Donation Agreement are fully incorporated herein by reference as if fully set forth herein. Copies of the Donation Agreement are on file at the offices of District and Landowner.

4. In the event of a conflict between the terms of this Memorandum of Donation Agreement and the terms of the Donation Agreement, the terms of the Donation Agreement shall control.

[SIGNATURES APPEAR ON THE FOLLOWING PAGES]

IN WITNESS WHEREOF, the parties have executed this Memorandum of Donation Agreement as of the date first above written.

**LITTLETON ELEMENTARY SCHOOL DISTRICT NO. 65
OF MARICOPA COUNTY, ARIZONA,**
a political subdivision of the State of Arizona

By: _____

Name: _____

Its: _____

Date: _____

State of Arizona)
)
County of Maricopa)

The foregoing instrument was acknowledged before me this _____ day of _____
20____, by _____, the _____ of Littleton Elementary
School District No. 65 of Maricopa County, Arizona, a political subdivision of the State of
Arizona, on behalf of the District.

(Seal and Expiration Date)

Notary Public

HILLCREST GP, LLC, an Arizona limited liability company,
By: Harvard Investments, Inc., Its Manager

By: _____

Name: Christopher J. Cacheris

Its: Sr. Vice President

Date: 12/13/2018

State of ARIZONA)

County of Maricopa)

The foregoing instrument was acknowledged before me this 13th day of December
2018, by Christopher J. Cacheris, the Sr. Vice President of
Harvard Investments, Inc., a/an Nevada corporation, on behalf of the
Hillcrest GP, LLC.

(Seal and Expiration Date)

Notary Public _____

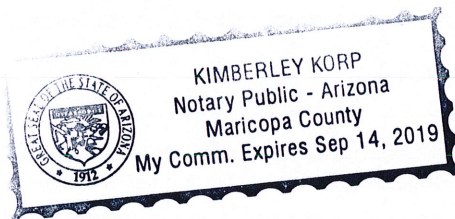


Exhibit 1 to Memorandum of Donation Agreement
VERDE TRAILS II, AKA "TOBIN PROPERTY"
(Property Legal Description)

PARCEL NO. 1:

THE WEST 50 FEET OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 1 NORTH, RANGE 1 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.

PARCEL NO. 2:

THE WEST HALF OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 1 NORTH, RANGE 1 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.

PARCEL NO. 3:

BEGINNING AT THE NORTHEAST CORNER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 1 NORTH, RANGE 1 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA;
THENCE SOUTH, 222 FEET;
THENCE WEST, 232 FEET;
THENCE NORTH, 222 FEET;
THENCE EAST TO THE POINT OF BEGINNING;
EXCEPT THE NORTH 40 FEET ROAD.

PARCEL NO. 4:

THE EAST HALF OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 1 NORTH, RANGE 1 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA;
EXCEPT THE NORTH 222 FEET OF THE EAST 232 FEET OF SAID EAST HALF AND
EXCEPT THE NORTH 40 FEET ROAD.

PARCEL NO. 5:

THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 1 NORTH, RANGE 1 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA;
EXCEPT THE WEST 50 FEET.

PARCEL NO. 6:

THE EAST HALF OF THE SOUTH HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 1 NORTH, RANGE 1 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.

PARCEL NO. 7:

THE WEST HALF OF THE SOUTH HALF OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 1 NORTH, RANGE 1 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.

SAID PORTIONS OF LAND CONTAINING 1,716,457 SQ. FT., OR 39.4044 ACRES, MORE OR LESS and BEING SUBJECT TO ANY EASEMENTS, RESTRICTIONS, RIGHTS-OF - WAY OF RECORD OR OTHERWISE.

THE DESCRIPTION SHOWN HEREON IS NOT TO BE USED TO VIOLATE ANY SUBDIVISION REGULATION OF THE STATE, COUNTY AND/OR MUNICIPALITY OR ANY LAND DIVISION RESTRICTIONS.

Exhibit G

Verde Trails II PAD Neighborhood Meeting Summary October 24, 2018

October 24, 2018, Neighborhood Meeting Summary for Verde Trails II PAD – PL-18-0197

The neighborhood meeting for Verde Trails II was held at Quentin Elementary School, 11050 W. Whyman Ave, Avondale, AZ 85323 at 6:00 p.m. The Development Team arrived at 5:15 p.m. and the first attendees arrived at 5:54 p.m. A copy of the sign in sheets are attached as Appendix A. All of the project attendees either live or own property in unincorporated portions of Maricopa County in the vicinity of the project.

Members of the Development Team present included:

Carolyn Oberholtzer, Bergin, Frakes, Smalley & Oberholtzer (BFSO Law)
Lyle Begiebing, BFSO Law
Lauren Trobaugh, BFSO Law
Tim Brislin, Harvard Investments
Jennifer Meyers, Norris Design
Paul Haas, Hilgart Wilson

Ken Galica, City of Avondale Division Lead Planner and Council Member Pat Dennis were also in attendance.

The meeting was open-house format with large boards displaying the plans for the attendees to view. As attendees arrived, members of the Development Team lead them through the exhibit boards and provided general background information, including an explanation of the existing site and the proposed project and rezoning. The information provided included that the site is currently in the County and is designated Medium Density Residential in the Avondale General Plan. They were also advised that a request for annexation into the City of Avondale is pending, given the details of the proposed annexation boundary, the conceptual layout and density, and the connection between the proposed project and adjacent Verde Trails. Maps were provided to show the project's context in relation to the main Verde Trails development, City and County land, and the proposed SR-30 freeway.

The following is a summary of questions and concerns expressed by the neighbors who attended the meeting. The Development Team's response to each question is provided after each question in **bold**.

A citizen pointed out where he lived, north of Broadway Road, and asked if his land was going to be annexed along with the project.

Ms. Oberholtzer pointed out the project's boundaries and explained how no other land (including the citizen's land) would be annexed into the city.

A citizen was concerned about water rights and what well irrigated the area.

Mr. Brislin explained that the project would not impact the citizen's water rights as they would be getting City water for the project and would not affect the citizen's well.

Citizen's were curious about the nature of the project and overall development details.

Ms. Oberholtzer explained that the project is adjacent to the larger Verde Trails project that received City Council approval earlier this year and that this new project will seamlessly add on to the existing plans for Verde Trails. She explained how the Development Team had re-worked the roads and circulation plan in order to better connect the project with the Verde Trails layout and how once they are approved, both the proposed project and Verde Trails would become one cohesive master planned community with unique development standards applying to the entire area.

Citizens were concerned about the location of the SR-30 freeway and how this would affect the project.

Ms. Oberholtzer showed citizens the exhibit of the surrounding area, pointing out the exact boundaries of the Verde Trails development in relation to the proposed path for the future freeway. She pointed out the land that ADOT had already acquired to the east and explained that the Development Team is aware that the Freeway may come through the southern most portion of the Verde Trails project. She explained that ADOT had not contacted the development team yet.

Citizens asked when the development would begin construction.

Mr. Tim Brislin explained that construction is set to begin in the spring of 2019 and pointed out which phases of the development would be constructed first. Ms. Oberholtzer explained the timing and process with the city, noting that the project would go before the Planning and Zoning Commission and then to City Council before it is fully approved and gave citizens the expected timetable for the hearings. She also explained that the annexation case would go straight to council and that nearby property owners would receive notification for every step of the process and the sign on the property would be updated throughout. She also noted the City of Avondale accepts comments on their website and members of the Development Team gave citizens their contact information for any questions and concerns.

A citizen asked about what impacts the development would have on Broadway Road.

Mr. Galica explained how the developer is required to complete half street improvements along all land adjacent to Broadway Rd. and gave the citizen details about what the road section would look like when completed.

Citizens were curious about the designated commercial area in the northeast corner of the development.

Mr. Galica and Ms. Meyers explained that the commercial portion is part of the previously approved, main section of the Verde Trails development and how this project does not affect that. They also explained that the commercial is not yet determined for that site, but it would not be a large-scale use.

A citizen asked about landscaping for the project.

Ms. Oberholtzer pointed out the landscaping on the site plan and explained the various landscaped setbacks from Broadway Rd.

A citizen asked about how the development would look from Broadway Road.

Ms. Meyers pointed out the exhibit detailing the entry monument and signage for the development and explained details for how the street frontage would look.

A citizen asked if the project and it's annexation had anything to do with the Lakin project annexation.

Ms. Oberholtzer explained that it does not have anything to do with Lakin and Mr. Galica added that this project and Verde Trails II is separate and on track to be approved before Lakin.

A citizen asked about the county islands and how the various jurisdictions of Avondale, Phoenix, and the county came to be.

Ms. Oberholtzer explained how strip annexations had historically been allowed and created the county islands in Avondale that appear today. Mr. Galica explained that county islands make it harder for city infrastructure to reach all portions of the city.

A citizen asked if a major amendment to the general plan was necessary for the development.

Mr. Galica and Ms. Oberholtzer explained that the General Plan would not need to be amended as the area was already designated as Medium Density Residential in Avondale's General Plan. Mr. Galica explained that the developer is annexing the property in order to be able to use city water and sewer connections.

A citizen asked what builder(s) would be building the homes for the development.

Mr. Brislin informed them that they are in talks and close to confirming 4 different builders for the Verde Trails project and are close to finalizing the deals but will not be able to say until finalized.

A citizen asked about the street improvements on the west side of the development.

Mr. Brislin explained that there would be half street improvements adjacent to the project and that the City would wait until the property to the west develops before the remainder is improved. Mr. Brislin also explained the various road alignments and outlets based on the half street improvements on the west side of the property.

A citizen asked if the corner of Avondale Boulevard and Broadway Road would be commercial.

Ms. Oberholtzer pointed out that the Avondale General Plan designated that corner as commercial and noted it could be possible to amend. Mr. Galica explained that the process for any change to the General Plan would require a lot of work, annexing and rezoning the area, and all property owners would receive numerous notices.

A citizen asked if there was city Water and Sewer nearby.

Mr. Galica explained that there is water and sewer along Avondale Blvd.

A citizen asked if the project would require a lift station.

Mr. Haas explained that it would not require a lift station.

A citizen asked how long it would take for the State to build the expected SR-30 freeway.

Mr. Galica explained that the State would most likely build an interim 2-lane version first and that the city understands construction will begin sometime around 2022.

A citizen asked if the developer needed citizen's signatures in order to annex the property.

Mr. Brislin and Ms. Oberholtzer explained that you only need 50.1% of all landowner's approval in order to annex and that this property is owned by one individual. As a result, only one signature is required.

A citizen asked if the property was located in a flood zone.

Mr. Galica pointed out where there was a flood zone nearby but that this development does not fall inside the flood zone.

Citizens asked when the final opening date would be for the full Verde Trails development.

Ms. Oberholtzer and Mr. Brislin explained the general timeline and estimated that the project would open within the next 2 years.

A citizen asked if the project would bring in any new commercial development.

Ms. Oberholtzer explained that there is no commercial on this section of the project but that there is some commercial in the full Verde Trails development that had already been designated by the general plan. She also noted that with the freeway coming through there would likely be more commercial following it.

Councilwoman Dennis asked about the rules relating to the creation of county islands.

Ms. Oberholtzer explained the various restrictions to creating county islands with multiple jurisdictions in the area and the avenues in which citizens are able to protest annexations.

The last resident left at 6:50 p.m. and the Development Team stayed until 7:00 p.m.

Appendix A: Sign-in Sheets

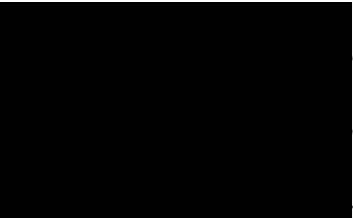
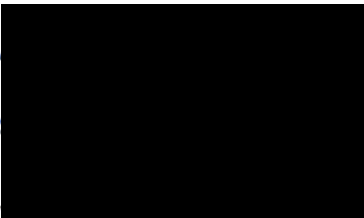
Neighborhood Meeting Sign-In Sheet

Harvard Investments
Verde Trails II
East of the southeast corner of Broadway Road and Avondale Boulevard
Neighborhood Meeting – Wednesday October 24 th @ 6:00 PM
Quentin Elementary School
11050 W Whyman Ave, Avondale, AZ 85323

Name	Address	City & Zip Code	Phone/E-Mail
Frank Morlock		85357	
Pat Dennis		85392	
Glenda Larmer		85353	
Angela Camacho Tolleson Az		85353	
Albert Camacho		" "	

Neighborhood Meeting Sign-In Sheet

Harvard Investments
Verde Trails II
East of the southeast corner of Broadway Road and Avondale Boulevard
Neighborhood Meeting – Wednesday October 24th @ 6:00 PM
Quentin Elementary School
11050 W Whyman Ave, Avondale, AZ 85323

Name	Address	City & Zip Code	Phone/E-Mail
LEE MOOREHEAD		Tolleson AZ	
James Martin		Tolleson AZ	
Twana Beal		Tolleson AZ	

ORDINANCE NO. 1683-219

AN ORDINANCE OF THE COUNCIL OF THE CITY OF AVONDALE, ARIZONA, AMENDING THE OFFICIAL ZONING ATLAS OF THE CITY OF AVONDALE FOR APPROXIMATELY 39.40 GROSS ACRES GENERALLY LOCATED ¼ MILE EAST OF THE SOUTHEAST CORNER OF AVONDALE BOULEVARD AND BROADWAY ROAD, AS SHOWN IN APPLICATION PL-18-0197, FROM RURAL RESIDENTIAL-43 (RR-43) TO PLANNED AREA DEVELOPMENT ZONING DISTRICT (PAD).

WHEREAS, the Council of the City of Avondale (the “City Council”) desires to amend the City of Avondale Zoning Atlas (the “Zoning Atlas”), pursuant to ARIZ. REV. STAT. § 9-462.04, to change the zoning description for a ±39.40 gross acres generally located ¼ mile east of the southeast corner of Avondale Boulevard and Broadway Road, as shown in application PL-18-0197, from Rural Residential-43 (RR-43) to Planned Area Development Zoning District (PAD) (the “Zoning Atlas Amendment”); and

WHEREAS, all due and proper notices of the public hearings on the Zoning Atlas Amendment held by the City of Avondale Planning Commission (the “Commission”) and by the City Council were given in the time, form and substance required by ARIZ. REV. STAT. § 9-462.04; and

WHEREAS, on February 4, 2019, the Commission held a public hearing on the Zoning Atlas Amendment, after which hearing the Commission recommended approval; and

WHEREAS, in accordance with Article II, Sections 1 and 2 of the Arizona Constitution, the City Council has considered the individual property rights and personal liberties of the residents of the City before adopting this Ordinance.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF AVONDALE as follows:

SECTION 1. The recitals above are hereby incorporated as if fully set forth herein.

SECTION 2. The Zoning Atlas Amendment for ±39.40 gross acres generally located ¼ mile east of the southeast corner of Avondale Boulevard and Broadway Road, as more particularly described and depicted on Exhibit A attached hereto and incorporated herein by reference, is hereby approved, rezoning such property from Rural Residential-43 (RR-43) to Planned Area Development Zoning District (PAD), subject to the City of Avondale adopted codes, requirements, standards and regulations and the following stipulations:

1. Development shall conform to the Verde Trails II PAD Narrative date stamped February 4, 2019, except as modified by these conditions.

2. All required off-site improvements to Broadway Road and Wier Avenue shall be completed in the first phase of development.
3. Grandfathered groundwater rights for the property (#58-113447.0000) must be extinguished and pledged to the City of Avondale's designated account (26-002003.0000) prior to issuance of any construction permits for any portion of the project. The referenced right covers 73.19 acres; if only 39.4 acres will be developed with this project, the City will support a partial extinguishment.

SECTION 3. If any provision of this Ordinance is for any reason held by any court of competent jurisdiction to be unenforceable, such provision or portion hereof shall be deemed separate, distinct and independent of all other provisions and such holding shall not affect the validity of the remaining portions of this Ordinance.

SECTION 4. The Mayor, the City Manager, the City Clerk and the City Attorney are hereby authorized and directed to execute all documents and take all steps necessary to carry out the purpose and intent of this Ordinance.

PASSED AND ADOPTED by the Council of the City of Avondale, Arizona, February 4, 2019.

Kenneth N. Weise, Mayor

ATTEST:

Marcella Carrillo, City Clerk

APPROVED:

Andrew J. McGuire, City Attorney

EXHIBIT A
TO
ORDINANCE NO. 1683-219

[Legal Description and Map]

See following pages.

**TOBIN PARCEL
LEGAL DESCRIPTION**

A portion of land being situated within the Northwest Quarter of Section 30, Township 1 North, Range 1 East of the Gila and Salt River Meridian, Maricopa County, Arizona, being more particularly described as follows:

BEGINNING at a found Brass cap in hand hole accepted as the North Quarter corner of said Section 30 from which a found brass cap in hand hole accepted as the Northwest corner thereof bears North 88°42'23" East, 2544.30 feet;

Thence along the east line of the Northwest Quarter of said Section 30, South 00°56'08" East, 1324.60 feet;

Thence leaving said east line, South 89°01'53" West, 1303.45 feet;

Thence North 00°35'16" West, 1317.28 feet;

Thence along the north line of the Northwest of said Section 30, North 88°42'23" East, 1295.47 feet to the **POINT OF BEGINNING**.

The above described parcel contains a computed area of 1,716,457 sq. ft. (39.404 acres) more or less and being subject to any easements, restrictions, rights-of-way of record or otherwise.

The description shown hereon is not to be used to violate any subdivision regulation of the state, county and/or municipality or any land division restrictions.

Prepared by: HILGARTWILSON, LLC
2141 E. Highland Avenue, Suite 250
Phoenix, AZ 85016
Project No.: 1377
Date: September 2018



NORTHWEST CORNER
SECTION 30, T1N, R1E
FOUND BRASS CAP
IN HAND HOLE

NORTH QUARTER CORNER
SECTION 30, T1N, R1E
FOUND BRASS CAP
IN HAND HOLE

BROADWAY ROAD

N88°42'23"E 2544.30'

1248.83'

N88°42'23"E 1295.47'

N00°35'16"W 1317.28'

TOBIN PARCEL
1,716,457 SQ FT
39.404 ACRES

S00°56'08"E 1324.60'

S00°56'08"E 2649.20'

S89°01'53"W 1303.45'

1324.60'



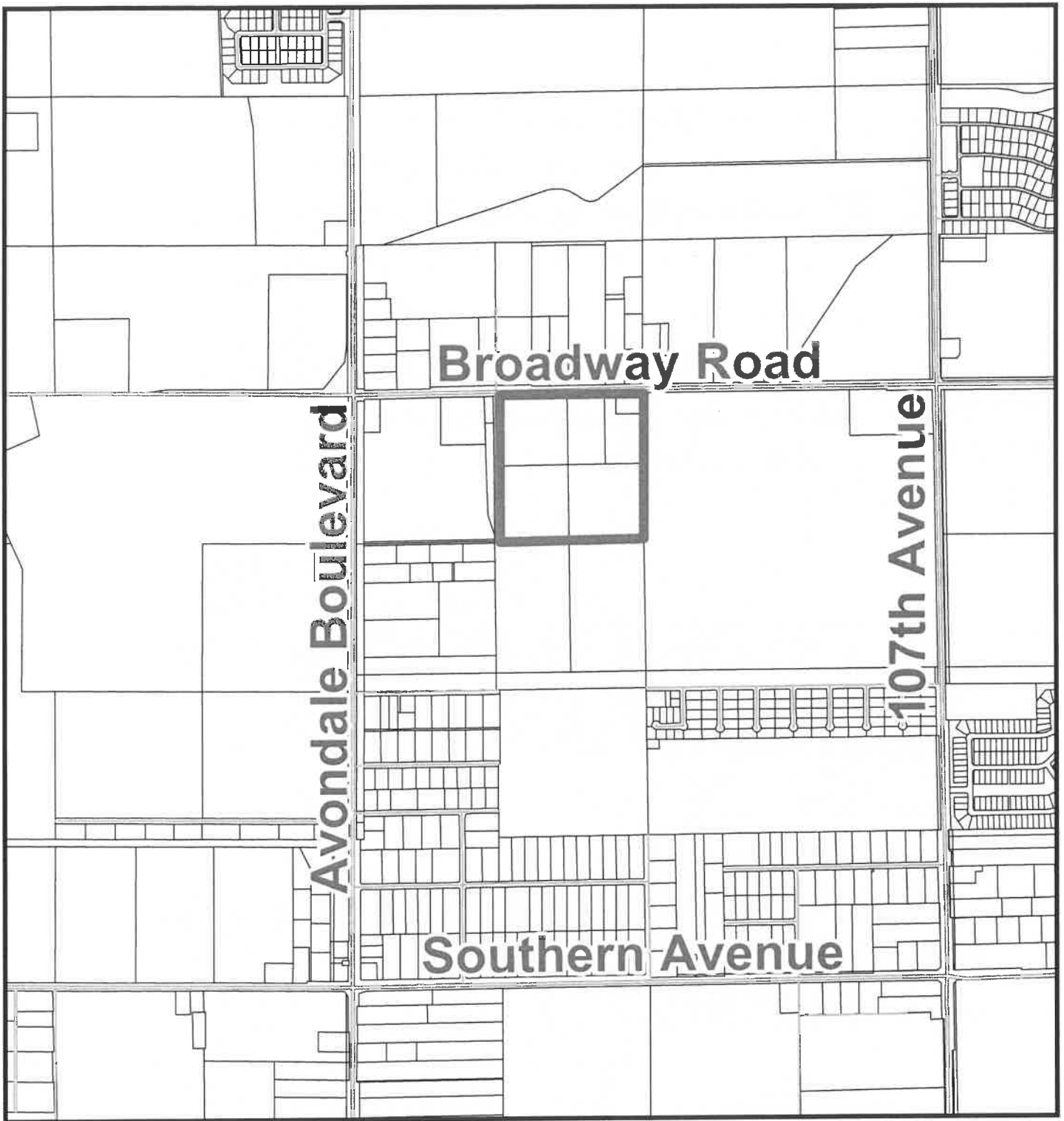
CENTER OF SECTION
SECTION 30, T1N, R1E
FOUND 1/2" REBAR
W/ CAP, RLS 19344

PROJ.NO.:	1377
DATE:	SEPT 2018
SCALE:	N.T.S.
DRAWN BY:	JDL
CHECKED BY:	KJP

VERDE TRAILS - TOBIN PROPERTY
BROADWAY ROAD & 111TH AVENUE
MARICOPA COUNTY, ARIZONA

EXHIBIT

HILGARTWILSON
2141 E. HIGHLAND AVE., STE. 250
PHOENIX, AZ 85016
P: 602.490.0535 / F: 602.368.2436



Application PL-18-0197



 Subject Property





CITY COUNCIL AGENDA

SUBJECT:

Historic Avondale Infrastructure Projects

MEETING DATE:

2/4/2019

TO:

Mayor and Council

FROM:

Tracy Stevens, Development and Engineering Services Director, (623) 333-4012

THROUGH:

Charles A. Montoya, City Manager, (623) 333-1016

PURPOSE:

Staff will provide an update on Historic Avondale infrastructure projects prioritization, timelines, and budget.

BACKGROUND:

On July 16, 2018, staff presented information regarding six (6) infrastructure projects in the older sections of our City, and discussed how the City could accelerate the completion of these projects. Staff was requested to prepare options for Council, considering project prioritization and fiscal impacts.

DISCUSSION:

There are six (6) infrastructure projects which have been identified for the Historic Avondale, Cashion and Las Ligas neighborhoods (see attached map). This information was presented during the July 16, 2018 Council meeting. These projects will include removal and reconstruction of roadway pavement and installation of ADA improvements, utility/water/wastewater improvements, and the installation of additional street lighting and hydrants as needed. The project areas include:

- Area 1 - 3rd Avenue to Central Avenue, Western to MC 85
- Area 2 - 3rd Ave/3rd Pl to Central, Western to Dooley
- Area 3 - Cashion, 113th to 111th Avenue, Durango to MC 85
- Area 4 - Central to 4th St, Elm to Harrison
- Area 5 - 1st St to Central, Whyman to MC 85 & Greenleaf, and 4th St to 7th St, Pacific to Western
- Area 6 – Las Ligas, 127th Ave to 125th Ave, Elwood to Illini

Development and Engineering Services staff and Public Works staff have discussed the individual project cost estimates and project scopes, and recommend the projects be completed in the order presented, starting with Area 1 and ending with Area 6 as shown above. Project prioritization factors included logistics, cost, and neighborhood feedback. The table below shows the design, ROW/Utility coordination and construction costs for each of the six (6) projects.

Neighborhood	Design Cost		ROW/Utility Coordination	Total Design Cost	Construction Cost		Total Const Cost	Total Project Cost
	Pavement/ADA	Utility			Pavement/ADA	Utility		
Area 1	\$137,500	\$101,250	\$75,000	\$313,750	\$1,475,000	\$1,225,000	\$2,700,000	\$3,013,750
Area 2	\$181,500	\$200,000	\$100,000	\$481,500	\$2,025,000	\$2,325,000	\$4,350,000	\$4,831,500
Area 3	\$145,750	\$550,000	\$200,000	\$895,750	\$1,675,000	\$6,975,000	\$8,650,000	\$9,545,750
Area 4	\$187,000	\$221,875	\$100,000	\$508,875	\$2,225,000	\$2,725,000	\$4,950,000	\$5,458,875
Area 5	\$151,250	\$78,750	\$100,000	\$330,000	\$1,825,000	\$1,100,000	\$2,925,000	\$3,255,000
Area 6	\$93,500	\$96,875	\$75,000	\$265,375	\$1,175,000	\$1,350,000	\$2,525,000	\$2,790,375

The pavement condition within Area 6 (Las Ligas) is the least egregious of all the locations and was chosen to be completed after the others. The Pavement Maintenance Coordinator will be able to schedule a treatment of the Las Ligas pavement next year, which should allow the roadway to function acceptably until the full removal and restoration project for this location at the end of the program.

It should be noted that the scope of work in Area 3 (Cashion), includes upsizing the existing water lines under the roads shown in red on the attached map. The pavement condition of the roads in red are in satisfactory condition and do not need to have the asphalt replaced. These roads will need to be trenched and restored to complete the water main upgrade, and the cost of the trench/restoration is included in the utility construction cost for Area 3.

The attached exhibit shows the projects for the Historic Avondale Roadway and Utility Improvement Program on a graphical timeline and summarizes the design and construction costs for each. The Area colors on the exhibit match the colors of the areas as shown on the attached project map. The design phase for each project is 18 months, which incorporates the procurement of the design consultant, design/plan preparation and right of way acquisition for ADA compliance as needed (at curb ramps and driveways). Coordination with utilities would also occur during the design phase for each project and would encompass addressing shallow utilities (i.e. SW Gas), utility pole re-locations as necessary, and addressing power issues with SRP/APS. Area 5, in particular, will require coordination and work with the Roosevelt Irrigation District, the cost of which is captured in the design phase of that project.

The construction phase for each project is one year, which is inclusive of project advertising, bidding and procurement of the contractor, construction of the improvements and project closeout. Staff did not overlap construction projects to avoid extensive disruption of multiple neighborhoods concurrently.

While seeking ways to accelerate this Historic Avondale Roadway and Utility Improvement Program, staff considered the importance of maintaining timely delivery of the future CIP projects already programmed, as well as private development project management, construction inspection, and oversight. These six new projects will be added to the CIP, and staff needs to manage the workload to ensure timely delivery of all capital and private development projects.

With the above in mind, the schedule presented assumes the hire of an additional Engineering Project Manager in FY 20-21, who could assist both Development and Engineering Services and the Public Works Department with pavement/ADA and utility design oversight and coordination. When coupled with existing staffing levels, the additional PM on staff would allow for two different projects in this program to be in different phases of design simultaneously and allows construction projects to start as soon as the previous construction project ends. The table below shows the anticipated design and construction schedules, which has the final project in the program being completed by January, 2027.

Location	Design	Procurement/ Construction	Design Cost	Construction Cost	Project Total
Area 1	Jul '19-Jan '21	Jan '21-Jan '22	\$313,750	\$2,700,000	\$3,013,750
Area 2	Jul '20-Jan '22	Jan '22-Jan '23	\$481,500	\$4,350,000	\$4,831,500
Area 3	Jul '21-Jan '23	Jan '23-Jan '24	\$895,750	\$8,650,000	\$9,545,750
Area 4	Jul '22-Jan '24	Jan '24-Jan '25	\$508,875	\$4,950,000	\$5,458,875
Area 5	Jul '23-Jan '25	Jan '25-Jan '26	\$330,000	\$2,925,000	\$3,255,000
Area 6	Jul '24-Jan '26	Jan '26-Jan '27	\$265,375	\$2,525,000	\$2,790,375
Total Cost			\$2,795,250	\$26,100,000	\$28,895,250

The attached exhibit indicates the financial impact associated with this program for each fiscal year of the program. All construction costs shown have been adjusted for inflation with a 3% escalator. The exhibit also includes ongoing staff cost for the additional Engineering Project Manager starting in FY 20-21. An annual 3% escalator was also applied to the ongoing FTE cost.

The total estimated cost of all projects in the program is \$28.9M. Accounting for the ongoing cost of the additional Engineering Project Manager, the total estimated cost of the program is \$29.7M.

The annual budgetary impact for the Program, including the ongoing staff cost is as follows:

Fiscal Year	Project Cost	Additional Staff Cost	Total
FY 19-20	\$ 313,750	\$ 0	\$ 313,750
FY 20-21	\$ 3,181,500	\$ 105,255	\$ 3,286,755
FY 21-22	\$ 5,245,750	\$ 108,413	\$ 5,354,163
FY 22-23	\$ 9,158,875	\$ 111,665	\$ 9,270,540
FY 23-24	\$ 5,280,000	\$ 115,015	\$ 5,395,015
FY 24-25	\$ 3,190,375	\$ 118,466	\$ 3,308,841
FY 25-26	\$ 2,525,000	\$ 122,019	\$ 2,647,019
FY 26-27	\$ 0	\$ 125,680	\$ 125,680
Total	\$28,895,250	\$ 806,513	\$29,701,763

In each year of this program, funds will be shifted from ST1009 (City Wide Street Overlay) to this program to cover all street-related design and construction costs. In the program's first year (FY20), \$1.2M will be transferred into the program from ST1009. In FY21, \$1.8M will be transferred in, followed by \$2M per year over the next 4 years (FY 22 through FY 25). In FY26, \$1M will be transferred in from ST1009, for a total of \$12M contributed from ST1009. This covers the Street-related design and construction costs of the entire program. The Capital Improvement Plan is being updated to reflect the shifting of funds from ST1009 to the Historic Avondale Infrastructure Improvement Program Project. Staff coordinated with our Pavement Maintenance Supervisor to ensure that sufficient funds remain in ST1009 to address the City's pavement rehabilitation needs throughout the City during this program.

The water/sewer design and construction costs will be financed by a combination of Water and Sewer Fund reserves and bonds. In the next few months, staff will present financing options to Council including the timing and amount of bonds to be issued. Staff estimates that bond financing will total about \$6 million.

STRATEGIC PLAN ALIGNMENT

INITIATIVE

Foster Sustainable Community Development

GOAL

Maintain and Expand Quality Infrastructure and Improve Connectivity to City Amenities

BUDGET IMPACT:

There is no immediate budgetary impact. All future year CIP appropriations will be subject to Council approval.

RECOMMENDATION:

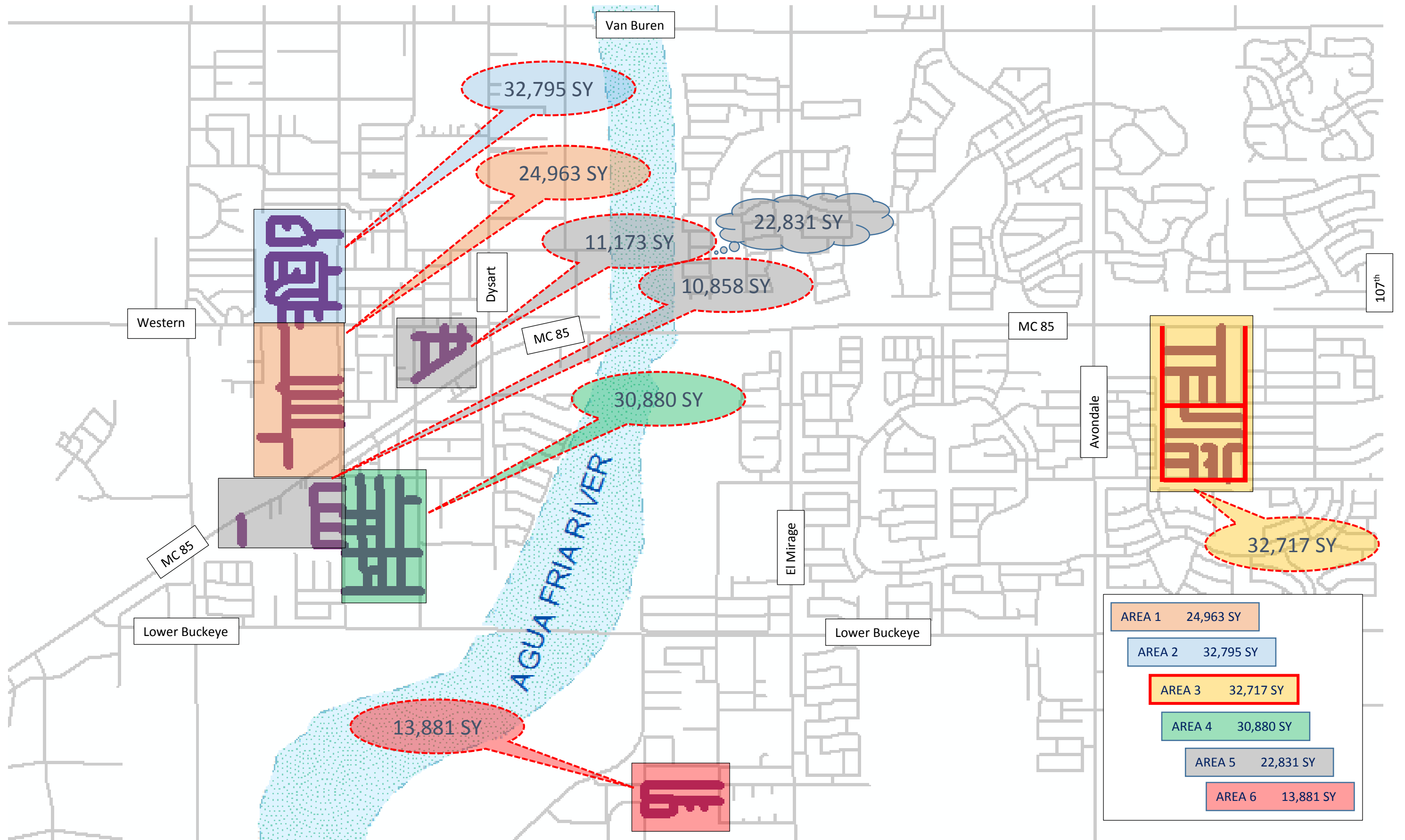
Staff is seeking input, guidance and direction from Council for the fiscal options presented for infrastructure projects in Historic Avondale, Las Ligas, and Cashion.

ATTACHMENTS:

Description

[Historic Avondale Infrastructure Project Areas](#)

[Historic Avondale Infrastructure Program Exhibit](#)



Historic Avondale Roadway and Utility Improvement Program
City of Avondale Council Work Session - December 10, 2018



2019-20		2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		Total	
\$313,750				\$895,750				\$330,000								\$2,795,250	
Area 1 - Design/ROW/Utility Coord				Area 3 - Design/ROW/Utility Coord				Area 5 - Design/ROW/Utility Coord								Design	
		\$481,500				\$508,875				\$265,375							
		Area 2 - Design/ROW/Utility Coord				Area 4 - Design/ROW/Utility Coord				Area 6 - Design/ROW/Utility Coord							
				\$2,700,000		\$4,350,000		\$8,650,000		\$4,950,000		\$2,925,000		\$2,525,000		\$26,100,000	
		Area 1 - Construction		Area 2 - Construction		Area 3 - Construction		Area 4 - Construction		Area 5 - Construction		Area 6 - Construction				Construction	
\$313,750		\$3,181,500		\$5,245,750		\$9,158,875		\$5,280,000		\$3,190,375		\$2,525,000				\$28,895,250	Project Cost
\$0		\$105,255		\$108,413		\$111,665		\$115,015		\$118,466		\$122,019		\$125,680		\$806,513	Ongoing Staff Cost*
\$313,750		\$3,286,755		\$5,354,163		\$9,270,540		\$5,395,015		\$3,308,841		\$2,647,019		\$125,680		\$29,701,763	Total Budgetary Impact
Street	Water/Sewer	Street	Water/Sewer	Street	Water/Sewer	Street	Water/Sewer	Street	Water/Sewer	Street	Water/Sewer	Street	Water/Sewer				
\$212,500	\$101,250	\$1,756,500	\$1,425,000	\$2,370,750	\$2,875,000	\$1,962,000	\$7,196,875	\$2,476,250	\$2,803,750	\$1,993,500	\$1,196,875	\$1,175,000	\$1,350,000				



CITY COUNCIL AGENDA

SUBJECT:

Comprehensive Annual Financial Report and
Single Audit - Fiscal Year 2018

MEETING DATE:

2/4/2019

TO: Mayor and Council

FROM: Lindsey Duncan, Finance and Budget Director (623) 333-2013

THROUGH: Charles A. Montoya, City Manager (623) 333-1016

PURPOSE:

Staff will present the City's Comprehensive Annual Financial Report and the results of the annual audit for the fiscal year ended June 30, 2018.

BACKGROUND:

The City Charter requires that an independent certified public accountant perform an annual audit of the City's financial statements and supporting accounts and fiscal transactions, and render an opinion on the financial statements together with a report, including recommendations concerning policy and fiscal procedures, to the City Council and City Manager.

Federal regulations require that the City have a Single Audit (audit of federal funds) if it expends \$750,000 or more during the fiscal year. The City expended more than \$1.8 million of federal awards in fiscal year 2018. (*Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*, also known as the "Uniform Guidance").

DISCUSSION:

CliftonLarsonAllen LLP, the City's auditors, recently completed its annual audit of the City for the year ended June 30, 2018. The audit services included the following:

- Audit of the Comprehensive Annual Financial Report (CAFR)
- Audit of the City's expenditures of federal awards (Single Audit)
- Examination of the City's compliance as to whether the City used highway user revenue fund monies for authorized transportation purposes (HURF Compliance)
- Examination of the City's Annual Expenditure Limitation Report for compliance with the *Uniform Expenditure Reporting System*, as required by statute (AELR Compliance)

CAFR

The auditors rendered an unmodified opinion ("clean opinion") on the financial statements and accompanying notes to the financial statements. The Independent Auditors' Report is presented on pages 1 -3 of the CAFR.

Single Audit

As part of the Single Audit, the auditors:

- reported on internal control over financial reporting in accordance with *Government Auditing Standards*
- provided an opinion on the City's compliance with the Uniform Guidance;
- reported on internal control over compliance with laws, regulations, contracts and grant agreements; and
- provided an opinion on the schedule of expenditures of federal awards.

The auditors rendered a clean opinion on compliance with the Uniform Guidance, internal control over compliance, and on the schedule of expenditures of federal awards. In addition, the auditors noted no questioned costs during the audit.

During the audit, the auditors identified internal control deficiencies which they considered to be material weaknesses. These deficiencies are cited on pages 195-197 of the CAFR.

Control Deficiencies – Defined

- Deficiency – either the design or operation of the City's internal controls may not prevent or detect an error.
- Significant Deficiency – a deficiency is present, but it is not material and in all likelihood would not cause something to be materially misstated, but it is important enough that it should be reported to governance.
- Material Weakness – a deficiency is present and it is either material or it could cause a material misstatement.

Material Weakness Noted

- Bank Reconciliations (No. 2018-001)
- Prior Period Adjustment related to Long-Term Storage Water Credits Inventory (No. 2018-002)
- Material Audit Adjustments (No. 2018-003)

Management Letter

Deficiencies identified by the auditors that they did not consider either material or significant were reported in the Management Letter. Five findings are cited in the Letter.

HURF Compliance

The auditors performed examination procedures to determine whether expenditures from HURF monies and any other dedicated state transportation revenues were spent pursuant to Arizona Revised Statutes Title 28, Chapter 18, Article 2. The auditors rendered a clean opinion on compliance with the requirements.

AELR Compliance

The auditors have not completed their examination procedures on the City's AELR and accompanying notes to determine the AELR was presented in accordance with the *Uniform Expenditure Reporting System*, as required by Arizona Revised Statutes Section 41-1279.07. The auditors will render an opinion on compliance with the requirements when their examination is complete, and we anticipate the auditors will render a clean opinion.

Addressing Weaknesses and Deficiencies:

Staff is working to identify the root cause of these weaknesses and deficiencies. A plan will be developed to resolve these in the future.

BUDGET IMPACT:

There is no budgetary impact.

RECOMMENDATION:

This item is for information and discussion.

ATTACHMENTS:**Description**

[Avondale AZ CAFR 2018](#)

[Governance Communication](#)

[Management Letter](#)

[HURF Report](#)



Avondale, Arizona

FISCAL YEAR ENDED JUNE 30, 2018

COMPREHENSIVE ANNUAL FINANCIAL REPORT

Avondale

Aspiring. Achieving. Accelerating.

COMPREHENSIVE ANNUAL FINANCIAL REPORT

FISCAL YEAR ENDED JUNE 30, 2018
CITY OF AVONDALE, ARIZONA



MAYOR AND COUNCIL

Kenn Weise, Mayor
Bryan Kilgore, Vice Mayor
Pat Dennis
Mike Pineda
Veronica Malone
Tina Conde
Lorenzo Sierra

MANAGEMENT STAFF

Charles Montoya, City Manager
Gina Montes, Assistant City Manager
Kevin Artz, Assistant City Manager

Prepared by: Finance and Budget Department

Lindsey Duncan, Finance and Budget Director
Steven Montague, Assistant Finance and Budget Director
Stephanie George, Senior Accountant
Greg Luethje, Senior Accountant
Lorisa Sjaasheim, Accountant
Daniel Rojas, Accountant



**CITY OF AVONDALE, ARIZONA
COMPREHENSIVE ANNUAL FINANCIAL REPORT
YEAR ENDED JUNE 30, 2018**

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INTRODUCTORY SECTION



December 28, 2018

Honorable Mayor and City Council, and Citizens of the City of Avondale:

In accordance with the requirements of the City of Avondale's (the City) Charter, we are pleased to submit the City's Comprehensive Annual Financial Report for the fiscal year ended 2018. This report has been prepared in conformity with U.S. generally accepted accounting principles (GAAP) for local governments as prescribed in pronouncements of the Governmental Accounting Standards Board (GASB), and audited in accordance with generally accepted auditing standards by a firm of licensed certified public accountants.

The report consists of management's representations concerning the City's finances. Consequently, management assumes full responsibility for the completeness and reliability of all information presented in this report. To provide a reasonable basis for making these representations, city management has established a comprehensive internal control framework that is designed both to protect the City's assets from loss, theft, and misuse, and to compile sufficient reliable information for the preparation of the City's financial statements in conformity with GAAP. Because the cost of internal controls should not outweigh their benefits, the City's comprehensive framework of internal controls has been designed to provide reasonable, rather than absolute, assurance that the financial statements will be free from material misstatement. As management, we assert that, to the best of our knowledge and belief, this financial report is complete and reliable in all material respects.

The City's financial statements have been audited by CliftonLarsonAllen LLP, a firm of licensed certified public accountants. The goal of the independent audit was to provide reasonable assurance that the financial statements of the City as of and for the fiscal year ended June 30, 2018, are free of material misstatement. The independent audit involved examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. The independent auditors concluded, based upon the audit, that there was a reasonable basis for rendering an unmodified opinion that the City's financial statements as of and for the fiscal year ended June 30, 2018, are fairly presented in conformity with GAAP. The Independent Auditors' Report is presented as the first component of the financial section of this report.

The independent audit of the financial statements of the City was part of a broader, federally-mandated "Single Audit" designed to meet the special needs of federal grantor agencies. The standards governing single audit engagements require the independent auditors to report not only on the fair presentation of the financial statements, but also on the audited government's

internal controls and compliance with legal requirements, with special emphasis on internal controls and legal requirements involving the administration of federal awards. The Single Audit Report is included within this report. GAAP requires that management provide narrative introduction, overview, and analysis to accompany the basic financial statements in the form of Management's Discussion and Analysis (MD&A). This letter of transmittal is designed to compliment the MD&A and should be read in conjunction with it. The City's MD&A can be found immediately following the Independent Auditors' Report.

City of Avondale Profile

The City of Avondale, incorporated in 1946, is located in the western portion of the Phoenix Metropolitan Area, and over the past ten years, is one of the fastest growing residential areas of Maricopa County, Arizona. The City's planning area currently occupies 94 square miles and serves a population of over 80,000. Unique to Avondale are the three rivers that traverse the City; the Gila, Salt and Agua Fria Rivers. The convergence of these rivers within Avondale presents a unique opportunity to build an open space system around these natural resources. Avondale also is home to ISM Raceway (formerly Phoenix International Raceway); a world-class motor sports venue nestled in the foothills of the beautiful Estrella Mountains. Avondale is a popular NASCAR destination. Each year, racing enthusiasts and race teams converge in Avondale, spending millions of dollars.

Avondale operates under the Council-Manager form of government in accordance with its Charter. Legislative authority is vested in a seven-member City Council consisting of a mayor and six council members elected at large for a term of four years. The Mayor and Council appoint the City Manager and such other officers deemed necessary and proper for the orderly administration of the City's affairs. The City of Avondale provides a full range of services to its citizens. Services include police, fire, public transportation, library, human services, parks and recreation, street maintenance, and general administration. The City also operates water, wastewater and sanitation services.

This report includes financial statements on both a government-wide and fund basis for the City, the primary government, and all of its component units, entities for which the City is considered to be financially accountable. The Avondale Municipal Development Corporation (MDC), although a legally separate entity is, in substance, part of the City's operations and so data from the MDC is combined with data of the City. The reporting entity is discussed further in Note 1 – Summary of Significant Accounting Policies, page 49, of the notes to the financial statements.

The annual budget serves as the foundation for the City of Avondale's financial planning and control. The City Manager submits a proposed budget on or before June 1, to the City Council for review, for the fiscal year commencing the following July 1. The budget includes proposed expenditures and the means of financing them. Various meetings are held during the months leading up to the final budget adoption including a citizen appreciation and budget input meeting and Citizen Capital Improvement Plan meetings. The City Council holds public hearings prior to the budget's final adoption in order to obtain additional citizen comments. At a regular Council meeting in June, the City Council formally adopts a final budget and it is then legally enacted through passage of a resolution. The resolution sets the limit for expenditures during the fiscal year. The legal level of expenditure control is at the function level for the General Fund and at the fund level for all other funds. The City Council legally adopts the budget and allocates spending authority to City funds through passage of an ordinance for the ensuing year.

Budgetary comparison statements and schedules, as appropriate, are provided in this report for each of these funds.

In addition to maintaining budgetary control through formal appropriation, the City maintains an encumbrance accounting system. Encumbrances are made against appropriations upon the issuance of a purchase order. Encumbered appropriations lapse at fiscal year-end.

Local Economy

Fiscal year 2018 local revenues continued an upward trend and increased about 7.7% from fiscal year 2017 to 2018. Retail sales tax collections have improved significantly over the past several years. The City has added over 200,000 SF of retail, and almost 1 million SF of industrial buildings that is adding significant sales tax and employment opportunities for the local economy.

Construction sales tax collections had been at a ten-year low during fiscal years 2014 and 2015. Due to the improving economy and the City Council's Accelerate Now initiative, single family housing permits have increased from only 68 in fiscal year 2015 to over 200 in each of the last three fiscal years. There were 229 new single permits issued during the fiscal year, which was a decrease from 267 in the prior year. While residential construction sales tax is not collected until the home sells, construction sales tax has increased by about \$0.7 million between fiscal years 2017 and 2018. In addition, the City experienced a 6.3% increase in the net limited assessed property value, growing from \$349,102,604 to \$370,922,156 for fiscal year 2018.

Long-term financial planning

The City also prepares a 5-year forward-looking planning budget that incorporates ongoing revenue projections, as well as operating impacts from capital projects and other projected operating costs. Summary information from the 5-year plan is presented to City Council during the budget preparation process.

On June 30, 1980, Arizona voters approved general propositions amending the Arizona Constitution to establish expenditure and revenue limitations for local governments. The purpose of the expenditure limitation is to control expenditures and to limit future increases in spending to adjustments for inflation, deflation, and population growth of the City.

On August 30, 2016 the voters of the City approved an alternative expenditure limitation, the effect of which is that the total budgeted expenditures, of each yearly budget, become the expenditure limitation for that year on a total budget basis. This alternative limitation is effective until June 30, 2021.

Relevant Financial Policies

The City has established a two-tier stabilization fund in accordance with GASB Statement No. 54. The General Fund stabilization amount is 35% of the prior years budgeted expenditures and transfers. The budgeted stabilization fund for fiscal year 2018 is \$21,867,357. In addition, net position in the Water and Wastewater Funds are maintained at a minimum of nine months of operating expenses plus five percent of the value of the Fund's capital assets excluding accumulated depreciation. All other enterprise funds maintain a minimum of four months of operating expenses plus the amount required to meet annual debt service requirements.

Commercial

The City of Avondale continues to benefit from a stable and growing local and national economy. These economic conditions have improved both property and operating fundamentals in Avondale and are driving increased economic development inquiries in our strategic sectors. One indicator of the City's improving market conditions for commercial development is the low or declining vacancy rates in the retail, office, and industrial sectors. In addition, new capital investment in both industrial and retail buildings has led to several positive location decisions in fiscal year 2018. These trends are expected to continue throughout the coming fiscal year as projects continue to move through the development pipeline and tenant demand for office, retail and industrial real estate in the West Valley increases.

The development of Avondale's key commercial sectors is also supported by growth in the City's housing and employment markets, which have gained significant momentum beginning in fiscal year 2016. Permit issuances for single-family residential projects continues to increase and employment growth in fiscal year 2018 continues to be driven by strong construction activity and staffing and recruitment efforts by companies locating to the City.

Major Accomplishments and Initiatives

Industrial

The one million SF Coldwater Depot Logistics Center continues to be a major employment center in the City. King Koil, which licenses its mattresses to more than 30 manufacturers in over 90 countries, now occupies 90,000 SF in the Logistics Center. With this King Koil transaction, there is less than 10% of available inventory in the building to occupy.

Over the last six years, the 600,000 SF Avondale Commerce Center has experienced exponential growth in its occupancy rates, having decreased its vacancy rate from 93% to 10% during that time frame. The Commerce Center includes a diverse tenant mix that ranges from a brewery distribution and tasting room, to fulfillment operations, to a premier baseball and softball training facility, and everything in between.

Additionally, Site Manufacturing relocated from New Mexico now occupies the former West Valley View building. With two dozen employees operating in the 35,300 SF space, they provide high-quality worksite lighting through portable solar power generation light towers

Healthcare

Avondale is pleased to be welcoming AKOS Medical Campus to the community. Offered as two 68,000 SF Class A medical office buildings with planned delivery for 2019, this premier medical office space along Avondale's burgeoning Health-Tech Corridor will bring upwards of 400 new jobs.

BridgeWater Assisted Living's first residents will arrive on its 126,000 SF campus in early 2019 and will provide independent and assisted living services, along with specialized memory care.

Retail

Averaging below the Valley's retail vacancy rate, Avondale's rate hovers around 5%. The McDowell Road Corridor between 99th & 107th Avenue has introduced additional retail options

including Boot Barn, Tuesday Morning, Escape Room, Ulta and several fast casual dining options. Furthermore, two business hotels, including Marriott's Residence Inn and My Place are under construction and will accommodate business and leisure travelers alike.

Educational Investment

Estrella Mountain Community College will embark on a \$31M expansion project. Plans call for a 37,000 SF building that will contain multi-use classrooms, flex labs, offices, and student support space. Also included in the 37,000 SF expansion will be 6,000 SF dedicated to vocational and occupational labs as part of the Gateway Community College Southwest Skill Center.

St. John Paul II Catholic High School started its first academic year with its first freshman and sophomore class of 150 students. With plans to scale in four phases and increase the student base until it reaches 1,000 students, St. John Paul II is a full-service Catholic High School offering its own academic curriculum, sports teams, music and student life programs.

Tolleson Union High School broke ground on a new high school and will enroll freshmen and sophomores for the 2019-2020 school year. The school, to be located on the northwest corner of Avondale and Encanto Boulevard, will be 275,000 SF and is designed to accommodate 3,000 students. Campus plans include a multi-story school with a gymnasium, practice field, football/soccer/track field and a performing arts center.

Residential Activity

Residential: With plans for 3,695 home sites, Alamar will be located in southwest Avondale near the proposed State Route 30. In the project's first phase, single family homes will range from 1,400 SF to 4,500 SF and will be priced from the mid \$200,000s to the high \$300,000s. Homes are expected to be delivered in the first quarter of 2020.

Multifamily: The 400 unit Avalon Luxury Apartment Homes is experiencing an extremely successful lease-up period. Having opened its doors in late summer 2018, Avalon is projecting to be fully leased by spring 2019.

ISM Raceway

Debuting its \$178M facelift at the Fall 2018 race, ISM Raceway offers the ultimate fan experience. The renovations include updated grandstands, free Wi-Fi, renovated luxury suites, and state of the art fan access areas, which provide fans up-close and personal interactions with their favorite drivers, crews and cars in the garages and pit row. Drawing hundreds of thousands of racing enthusiasts and contributing hundreds of millions of dollars to the state and local economy, this economic engine hosts two NASCAR weekends throughout the year.

Single Audit

As a recipient of federal, state and county financial assistance, the City is responsible for ensuring that adequate internal control is in place to ensure compliance with applicable laws, regulations, contracts, and grants related to those programs. Internal control is subject to periodic evaluation by management.

As part of the City's Single Audit described earlier, tests are made to determine the adequacy of the internal control, including that portion related to federal financial assistance programs, as well as to determine that the City has complied with applicable laws and regulations.

Certificate of Achievement

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the City of Avondale for its Comprehensive Annual Financial Report (CAFR) for the year ended June 30, 2017. In order to be awarded the Certificate of Achievement, a governmental unit must publish an easily readable and efficiently organized CAFR, whose contents conform to program standards. Such reports must satisfy both U.S. generally accepted accounting principles and applicable legal requirements.

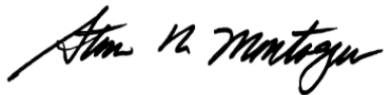
A Certificate of Achievement is valid for a one-year period only. We believe our current report conforms to the Certificate of Achievement program requirements, and we are submitting it to GFOA.

In addition, the City also received the GFOA Distinguished Budget Presentation Award for its annual budget document for the fiscal year 2017-18 budget. In order to qualify for the Distinguished Budget Presentation Award, the City's budget document was judged to be proficient in several categories, including as a policy document, a financial plan, an operations guide, and a communication device.

Acknowledgements

The preparation of this report would not have been possible without the efficient and dedicated services of the entire staff of the Finance and Budget Department. We would like to express our appreciation to all members of the Department who assisted and contributed to the preparation of this report. Credit must also be given to the Mayor and Council for their continued support to help maintain the highest standards of professionalism in the management of the City of Avondale's finances.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Steve R. Montague".

Steven R. Montague, CPA, CGFM
Assistant Finance and Budget Director



Government Finance Officers Association

**Certificate of
Achievement
for Excellence
in Financial
Reporting**

Presented to

**City of Avondale
Arizona**

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

June 30, 2017

Christopher P. Morrell

Executive Director/CEO

**CITY OF AVONDALE, ARIZONA
PRINCIPAL OFFICIALS
YEAR ENDED JUNE 30, 2018**

MAYOR AND COUNCIL

Kenn Weise, Mayor

Bryan Kilgore, Vice Mayor

Mike Pineda, Councilmember

Tina Conde, Councilmember



Pat Dennis, Councilmember

Veronica Malone, Councilmember

Lorenzo Sierra, Councilmember

MANAGEMENT STAFF

Charles Montoya, City Manager

Gina Montes, Assistant City Manager

Kevin Artz, Assistant City Manager

DEPARTMENT HEADS

Craig Jennings, City Judge

Cindy Blackmore, Public Works Director

Cherlene Penilla, Human Resources Director

Kirk Haines, Parks, Recreation and Libraries
Director

Lindsey Duncan, Finance and Budget Director

Tracy Stevens, Development and Engineering
Services Director

Pier Simeri, Community Relations Director

Paul Adams, Chief of Fire and Medical

Dale Nannenga, Chief of Police

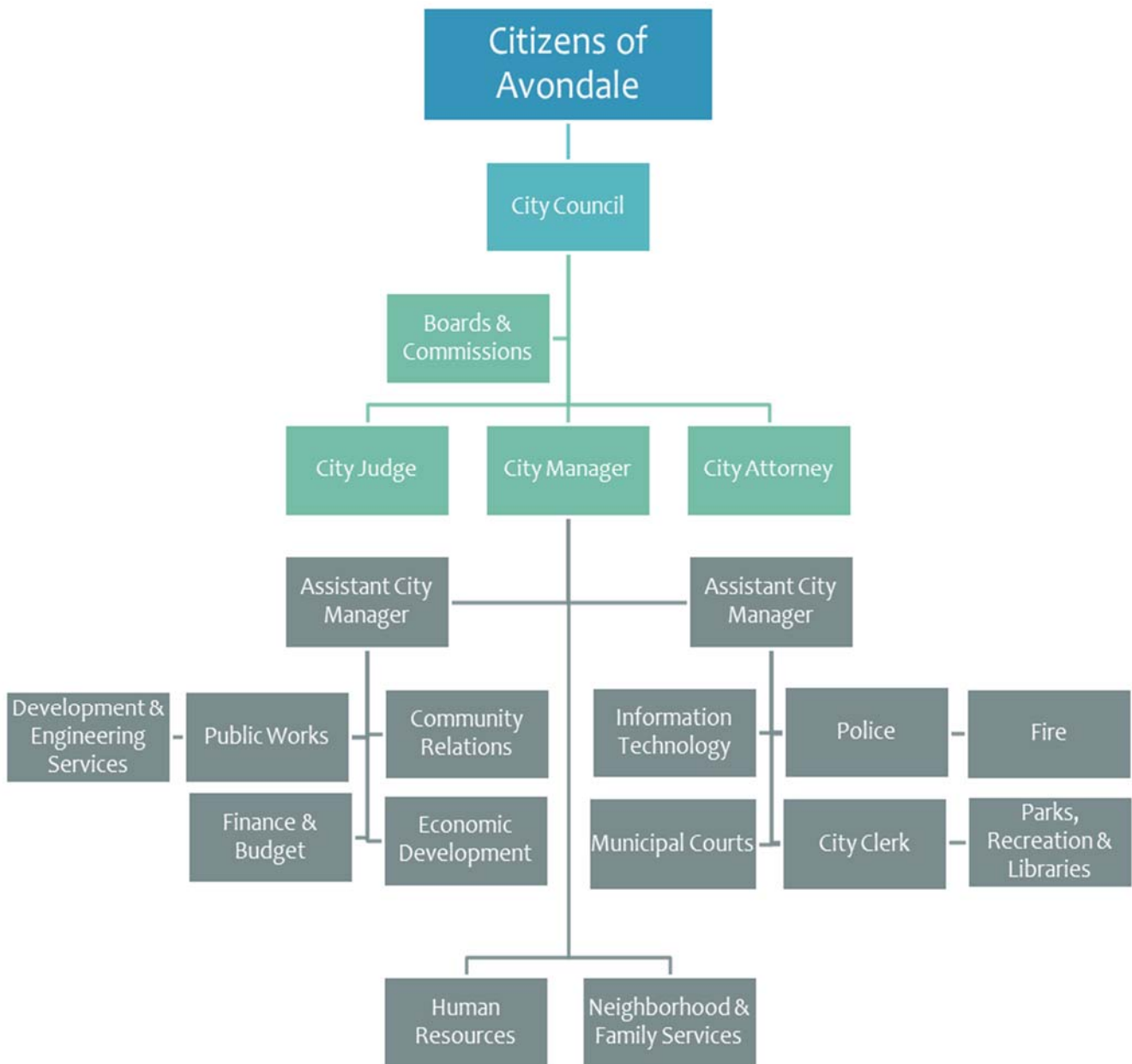
Dan Davis, Economic Development Director

Chris Lopez, Neighborhood and Family
Services Director

Jeff Scheetz, Chief Information Officer

Carmen Martinez, City Clerk

**CITY OF AVONDALE, ARIZONA
ORGANIZATIONAL CHART
YEAR ENDED JUNE 30, 2018**





FINANCIAL SECTION

Independent Auditors' Report



INDEPENDENT AUDITORS' REPORT

Honorable Mayor and City Council
City of Avondale, Arizona
Avondale, Arizona

Report on the Financial Statements

We have audited the accompanying financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Avondale, Arizona (City), as of and for the year ended June 30, 2018, and the related notes to the financial statements, which collectively comprise the City's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the City's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the City's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Avondale, Arizona as of June 30, 2018, and the respective changes in financial position and, where applicable, cash flows thereof and the statement of revenues, expenditures and changes in fund balances – budget to actual statements for the General Fund, Dedicated Sales Tax Revenue Fund and the Public Safety Sales Tax Revenue Fund for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of a Matter

During the fiscal year ended June 30, 2018, the City restated beginning net position of the Business-type Activities and the Water Enterprise Fund for a correction of an error. (See Note 15). Our auditors' opinion was not modified with respect to the restatement.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and the required supplementary information, as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the City of Avondale, Arizona's basic financial statements. The introductory section, statistical section and the supplementary information section (combining fund financial statements and budgetary comparison schedules and other supplementary information) are presented for purposes of additional analysis and are not a required part of the basic financial statements. The schedule of expenditures of federal awards, as required by Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*, is also presented for purposes of additional analysis and is not a required part of the basic financial statements.

The supplementary information section (combining fund financial statements and budgetary comparison schedules and other supplementary information) and the schedule of expenditures of federal awards are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory and statistical sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on them.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated December 28, 2018, on our consideration of the City of Avondale, Arizona's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the result of that testing, and not to provide an opinion on the effectiveness of the City of Avondale, Arizona's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering City of Avondale, Arizona's internal control over financial reporting and compliance.

A handwritten signature in cursive script that reads "CliftonLarsonAllen LLP".

CliftonLarsonAllen LLP

Phoenix, Arizona
December 28, 2018

FINANCIAL SECTION

Management's Discussion and Analysis (Required Supplementary Information)

**CITY OF AVONDALE, ARIZONA
MANAGEMENT'S DISCUSSION AND ANALYSIS
YEAR ENDED JUNE 30, 2018**

As management of the City of Avondale, Arizona (the City), we offer readers of the City's financial statements this narrative overview and analysis of the financial activities of the City for the fiscal year ended June 30, 2018. This discussion and analysis is designed to 1) assist the reader in focusing on significant financial issues, 2) provide an overview of the City's financial activity, 3) identify changes in the City's financial position, 4) identify any significant deviations from the City's *Annual Budget and Financial Plan* (the council-adopted annual budget), and 5) identify individual fund issues or concerns. The information presented in this discussion and analysis is based on currently known facts, decisions, and conditions.

This discussion and analysis has a different focus and purpose than the Letter of Transmittal presented on pages vii-xii of this report and is designed to be read in conjunction with the Letter of Transmittal, as well as the basic financial statements on pages 22-46 and the accompanying notes to the financial statements on pages 48-91.

FINANCIAL HIGHLIGHTS

The following are some of the more significant financial highlights. Explanations for these changes are provided below and in the following sections.

- Government-wide assets and deferred outflows of resources exceeded liabilities and deferred inflows of resources at the close of the most recent year by about \$1.1 billion (net position). Of this amount, \$97.4 million represents unrestricted net position, up about \$21.9 million (29.0%) from last year, which may be used to meet the City's ongoing obligations to citizens and creditors.
- Net position increased \$18.2 million (1.7%) during the year, resulting from a \$15.3 million (2.7%) increase in governmental activities net position and \$2.9 million (.6%) increase in business-type activities net position between years.
- Governmental activities program revenues increased \$2.0 million (10.1%) and general revenues increased by \$4.0 million (5.1%) between years, while expenses increase about \$0.2 million during the same period.
- Business-type activities program revenues increased \$1.6 million (5.0%) and general revenues increased by about \$0.5 million (91.8%) over the previous year, while expenses decreased about \$0.2 million during the same period.
- Transfers between governmental activities and business-type activities remained unchanged from the prior year.
- Government-wide assets increased about \$18.4 million (1.5%) over the prior year. This was largely due to an increase in cash and investments of \$18.8 million (10.3%) between years.
- Government-wide liabilities remained substantially unchanged from the previous year.
- At year end, the governmental funds reported combined fund balance of \$113.6 million, an increase of \$17.9 million (18.7%) over the previous year. Of this amount, about \$1.2 million was nonspendable and \$62.5 million was either externally restricted or internally committed to specific purposes. About \$50.0 million was either assigned to a specific purpose or unassigned, both of which are available for spending at the City's discretion.
- Combined governmental fund revenues of \$101.7 million increased \$7.3 million (7.7%) and expenditures of \$89.1 million increased \$4.2 million (5.0%) between years.
- General Fund revenues exceeded budgeted revenues by \$3.4 million, while expenditures were \$5.8 million less than final budgeted expenditures during the year, resulting in a net budgetary savings of \$9.1 million.

OVERVIEW OF THE FINANCIAL STATEMENTS

The discussion and analysis provides an introduction to the City's basic financial statements. The basic financial statements consist of three components: 1) government-wide financial statements, 2) fund financial statements, and 3) notes to the financial statements. This report also contains other supplementary information, some of which is required, that provides additional detail information to support the basic financial statements.

Government-wide Financial Statements

The government-wide financial statements are designed to provide a broad overview of the City's finances in a manner similar to a private-sector business. All of the City's activities, except those of a fiduciary nature, are included in these statements.

The City's activities are presented in two columns; governmental activities and business-type activities. A total column is also presented for the City.

- **Governmental activities** include the City's basic services such as general government (administration), public safety (police and fire), highways and streets, health and welfare, economic and community development, culture and recreation, and transportation. These activities are mainly supported by general revenues.
- **Business-type activities** include private sector-type activities such as city-owned water, wastewater, and sanitation systems that provide services to city residents and businesses. These activities are primarily supported by user charges and fees.

The Statement of Net Position presents information on all of the City's assets, deferred outflows of resources, and liabilities and deferred inflows of resources, with the difference reported as net position. The focus on net position is important because increases and decreases in net position may serve as a useful indicator of whether the financial position of the City is improving or deteriorating. Increases in net position may indicate an improved financial position, but decreases in net position may not necessarily indicate the City's financial position is deteriorating. Instead, decreases in net position may reflect situations where the City has used previously accumulated funds to finance its operations or projects such as cash funding of capital projects. As a result, readers must consider and evaluate other financial and nonfinancial indicators to effectively assess the City's overall financial health.

The Statement of Activities presents information showing how the City's net position changed during the most recent fiscal year. Since the economic resources measurement focus and full accrual accounting are used for the government-wide financial statements, all changes in net position are reported as soon as the underlying event giving rise to the change occurs, regardless of the timing of the related cash flows. Thus, revenues and expenses are reported for some items that will only result in cash flows in future fiscal periods (e.g., uncollected taxes and long-term debt that has not matured). This statement also focuses on both the gross and net costs of city functions based only on direct functional revenues and expenses. This focus is designed to show the extent to which city functions are dependent on general revenues for support.

The government-wide financial statements can be found on pages 22-24 of this report.

Fund Financial Statements

A fund is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. The City uses fund accounting to ensure and demonstrate compliance with finance-related legal requirements and to establish and maintain control over city assets as part of its fiduciary responsibility. All city funds are categorized as governmental funds, proprietary funds, or fiduciary funds. The fund financial statements focus on the City's major funds.

Governmental funds account for essentially the same functions reported as governmental activities in the government-wide financial statements. However, unlike the government-wide financial statements, governmental fund financial statements focus on near-term inflows and outflows of spendable resources, as well as on balances of spendable resources available at year end. Such information may be useful in evaluating the City's near-term financing requirements and determining what financial resources are available in the near future to fund city programs.

Because the focus of governmental funds is narrower than that of the government-wide financial statements, it may be useful to compare the information presented for the governmental funds with similar information presented for governmental activities in the government-wide financial statements. By doing so, readers may better understand the

long-term impact of the City's near-term financing decisions. To facilitate this comparison, reconciliations of the differences between the governmental fund balance sheet and statement of revenues, expenditures, and changes in fund balances and government-wide statement of net position and statement of activities are provided immediately following the respective governmental fund statements. These reconciliations are on pages 29 and 33, respectively.

The City maintains eighteen governmental funds. Information is presented separately in the governmental fund balance sheet and the governmental fund statement of revenues, expenditures, and changes in fund balances for the General Fund, Dedicated Sales Tax Revenue Fund, Public Safety Sales Tax Revenue Fund, and Development Fees Fund, all of which are considered to be major funds. Data from the other governmental funds are combined into a single, aggregated presentation. Individual fund data for each of these nonmajor governmental funds is provided in the form of combining financial statements and schedules. The basic governmental fund financial statements can be found on pages 26-28 and 31-32 of this report. The nonmajor governmental fund statements and schedules are presented as supplementary information after the basic financial statements on pages 104-128.

The City adopts an annual budget and legally allocates (appropriates) available monies for all governmental funds. Budgetary comparison statements are presented for all major funds, except for the Development Fees Fund, on pages 35-37. Budgetary comparison schedules are presented for the remaining governmental funds on pages 103 and 115-128.

Proprietary funds use the economic resources measurement focus and full accrual accounting, the same method used by private sector business. The City maintains six proprietary funds.

- **Enterprise funds** account for activities that primarily serve customers outside the city unit. The enterprise funds generally provide information similar to the business-type activities column of the government-wide financial statements, but provide more detailed information such as cash flows. The City uses separate enterprise funds to account for its water, wastewater and sanitation system services. These funds are considered to be major funds of the City. The basic proprietary fund financial statements can be found on pages 39-42.
- **Internal service funds** account for activities where the City is the primary customer. Because these funds primarily provide services to governmental activities, the internal service fund account balances and activities are reported in the governmental activities column on the government-wide financial statements. The internal service fund account balances and activities are presented in a single, aggregated column on the proprietary fund financial statements. The operating income or loss of the internal service funds is allocated to the various user functions on the government-wide statement of activities. Since the City partially allocates the operating income or loss of the internal service funds to business-type activities on the government-wide financial statements, a reconciliation is provided on the face of the proprietary fund financial statements to reconcile total enterprise fund net position and changes in net position on the fund financial statements to the business-type activities column on the government-wide financial statements. The City uses separate internal service funds to account for its risk management program, printing services, and fleet management services. Additional information on the internal service funds is provided in combining statements. These statements are included as supplementary information after the basic financial statements on pages 130-133.

Fiduciary funds account for resources held for the benefit of parties outside of the City. Fiduciary funds are not reported in the government-wide financial statements because the resources of these funds are not available to support city programs. The accounting used for fiduciary funds is much like that used for proprietary funds. The fiduciary fund financial statements can be found on pages 44-46 of this report.

Notes to the financial statements provide additional information that is essential to a full understanding of the data provided in the government-wide and fund financial statements and should be read with these financial statements. The notes can be found on pages 48-91 of this report.

Required supplementary information other than MD&A—In addition to the basic financial statements and accompanying notes, this report also presents certain required supplementary information concerning the City's budget process and employer pension plans. Governments have the option of including budgetary comparison statements of the General Fund and major special revenue funds either as part of the fund financial statements within the basic financial statements or as required supplementary information. The City has elected to present budgetary comparison statements as part of the basic financial statements. The employee pension disclosures are presented as required supplementary information immediately following the notes to the financial statements on pages 93-100.

GOVERNMENT-WIDE FINANCIAL ANALYSIS

The following tables, graphs and analyses discuss the financial position and changes in the financial position of the City as of and for the year ended June 30, 2018, with comparative information from June 30, 2017.

Net Position—As noted earlier, net position may serve over time as a useful indicator of the City’s financial position. In the case of the City, assets and deferred outflows of resources exceeded liabilities and deferred inflows of resources by about \$1.1 billion at the close of the most recent year.

Net Position At June 30

	Governmental Activities		Business-type Activities		Total Government		Percent Change
	2018	2017	2018	2017	2018	2017	
Current and other assets	\$ 128,760,675	\$ 110,381,861	\$ 101,011,768	\$ 100,972,607	\$ 229,772,443	\$ 211,354,468	8.7 %
Capital assets, net	563,739,591	566,916,012	457,412,562	454,289,893	1,021,152,153	1,021,205,905	(0.0)
Total assets	692,500,266	677,297,873	558,424,330	555,262,500	1,250,924,596	1,232,560,373	1.5
Deferred outflows of resources							
Deferred charge on debt refunding	2,447,469	354,084	8,964	10,459	2,456,433	364,543	573.8
Deferred outflows related to pensions and other postemployment benefits	12,644,046	16,293,018	1,021,010	1,532,981	13,665,056	17,825,999	(23.3)
Total deferred outflows of resources	15,091,515	16,647,102	1,029,974	1,543,440	16,121,489	18,190,542	
Current and other liabilities	21,592,795	21,611,024	9,040,574	7,566,289	30,633,369	29,177,313	5.0
Long-term liabilities	100,263,744	100,358,214	17,215,706	18,508,896	117,479,450	118,867,110	(1.2)
Total liabilities	121,856,539	121,969,238	26,256,280	26,075,185	148,112,819	148,044,423	0.0
Deferred inflows of resources							
Deferred inflows related to pensions and other postemployment benefits	2,706,997	4,261,328	468,198	914,452	3,175,195	5,175,780	(38.7)
Total Deferred inflows of resources	2,706,997	4,261,328	468,198	914,452	3,175,195	5,175,780	
Net position:							
Net investment in capital assets	512,653,918	514,022,743	445,885,371	449,877,043	958,539,289	963,899,786	(0.6)
Restricted	38,693,992	31,791,041	21,099,328	26,297,393	59,793,320	58,088,434	2.9
Unrestricted	31,680,335	21,900,625	65,745,127	53,641,867	97,425,462	75,542,492	29.0
Total net position	\$ 583,028,245	\$ 567,714,409	\$ 532,729,826	\$ 529,816,303	\$ 1,115,758,071	\$ 1,097,530,712	1.7

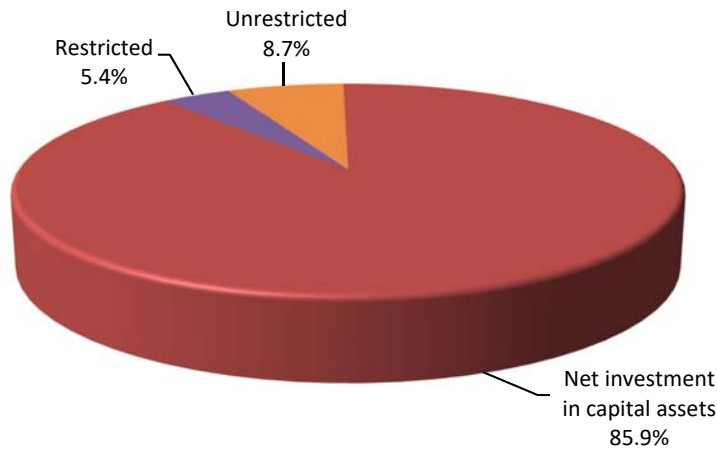
At year end, the City is able to report positive balances in all three categories of net position for both governmental and business-type activities. Total net position increased about \$18.2 million (1.7%) from the prior year.

The largest portion of net position, net investment in capital assets of \$958.5 million (85.9%), reflects the City’s investment in capital assets, net of accumulated depreciation and amortization, reduced by outstanding balances of bonds and other borrowings that are attributable to the acquisition, construction, or improvement of those assets. Deferred outflows of resources related to the debt also are included in this component of net position. The City uses these capital assets to provide services to its citizens. Consequently, these assets are not available for future spending. Although the capital assets are reported net of related debt, it should be noted that the resources needed to repay this debt must be provided from other sources since the capital assets cannot be used to liquidate these liabilities. Net investment in capital assets decreased about \$5.4 million (0.6%) between years. The net decrease was largely due to capital acquisitions of about \$32.6 million, retirement of long-term indebtedness of about \$28.6 million, and decrease on unspent bond proceeds between years of \$7.6 million, offset by the issuance of \$25.9 million of net long-term bond debt and lease/purchase debt and increase in accumulated depreciation due to depreciation of \$32.5 million during the year.

Restricted net position of \$59.8 million (5.4%) represents resources with constraints placed on their use externally either by creditors, grantors, contributors, laws and regulations of other governments, or imposed by law through constitutional provisions or enabling legislation. Restricted net position increased about \$1.7 million (2.9%) between years, which is largely due to increases in resources restricted for capital projects and debt service.

Unrestricted net position of \$97.4 million (8.7%) may be used to meet the City’s ongoing obligations to its citizens and creditors. Unrestricted net position increased about \$21.9 million (29.0%) between years.

**Government-wide Net Position
At June 30, 2018**



Changes in Net Position

The following table presents revenues, expenses, and changes in net position of the City for the fiscal years ended June 30, 2018, and June 30, 2017.

**Changes in Net Position
Year Ended June 30**

	Governmental Activities		Business-type Activities		Total (Primary Government)		Percent Change
	2018	2017	2018	2017	2018	2017	
Revenues:							
Program revenues							
Charges for services	\$ 6,251,597	\$ 5,271,789	\$ 30,430,226	\$ 28,929,428	\$ 36,681,823	\$ 34,201,217	7.3 %
Operating grants and contributions	9,759,508	9,058,945	-	-	9,759,508	9,058,945	7.7
Capital grants and contributions	5,841,412	5,509,985	4,242,922	4,107,998	10,084,334	9,617,983	4.8
General revenues							
Sales and use taxes	49,443,328	46,473,655	-	-	49,443,328	46,473,655	6.4
Property taxes	5,960,491	5,957,342	-	-	5,960,491	5,957,342	0.1
Franchise taxes	1,256,448	1,135,350	-	-	1,256,448	1,135,350	10.7
State-shared revenues	21,713,658	20,499,811	-	-	21,713,658	20,499,811	5.9
Investment income	660,720	400,040	500,622	310,375	1,161,342	710,415	63.5
Gain on sale of capital assets	(40,759)	268,568	124,425	104,002	83,666	372,570	(77.5)
Miscellaneous	2,748,927	3,036,698	456,716	149,584	3,205,643	3,186,282	0.6
Total revenues	103,595,330	97,612,183	35,754,911	33,601,387	139,350,241	131,213,570	6.2
Expenses:							
General government	17,413,185	14,309,548	-	-	17,413,185	14,309,548	21.7
Public safety	38,601,762	42,260,573	-	-	38,601,762	42,260,573	(8.7)
Highways and streets	13,797,634	12,539,013	-	-	13,797,634	12,539,013	10.0
Health and welfare	3,592,893	3,200,864	-	-	3,592,893	3,200,864	12.2
Economic and community development	6,354,065	6,418,604	-	-	6,354,065	6,418,604	(1.0)
Culture and recreation	5,964,961	5,416,224	-	-	5,964,961	5,416,224	10.1
Transportation	1,138,438	890,706	-	-	1,138,438	890,706	27.8
Interest on long-term debt	1,268,556	2,887,484	-	-	1,268,556	2,887,484	(56.1)
Water	-	-	16,560,738	16,242,773	16,560,738	16,242,773	2.0
Wastewater	-	-	11,620,939	12,389,737	11,620,939	12,389,737	(6.2)
Sanitation	-	-	4,809,711	4,578,856	4,809,711	4,578,856	5.0
Total expenses	88,131,494	87,923,016	32,991,388	33,211,366	121,122,882	121,134,382	(0.0)
Increase (decrease) in net position before transfers	15,463,836	9,689,167	2,763,523	390,021	18,227,359	10,079,188	
Transfers	(150,000)	(150,000)	150,000	150,000	-	-	-
Increase (decrease) in net position	15,313,836	9,539,167	2,913,523	540,021	18,227,359	10,079,188	
Net position as restated, July 1	567,714,409	558,175,242	529,816,303	529,276,282	1,097,530,712	1,087,451,524	
Net position, June 30	\$ 583,028,245	\$ 567,714,409	\$ 532,729,826	\$ 529,816,303	\$ 1,115,758,071	\$ 1,097,530,712	

Total 2018 revenues of \$139.4 million increased about \$8.1 million (6.2%) over the previous year. Governmental activities revenues increased by \$6.0 million (6.1%) and business-type activities revenues increased about \$2.2 million (6.4%) over the prior year, while expenses changed by about \$0.2 million for both governmental and business-type activities during the same period.

Governmental Activities

Governmental activities increased the City's net position before transfers by \$15.5 million during the year, compared to \$9.7 million in the prior year. The increase between years was largely due to increases in general revenues of about \$4.0 million and program revenues of about \$2.0 million over the prior year, offset by an increase in expenses of about \$0.2 million between years. Governmental activities accounted for 74.3 % of the City's total revenues and 72.8% of total expenses during the year. Program revenues of \$21.9 million were 24.8% of governmental activities expenses during the year, compared to \$19.8 million, or 22.6%, of expenses in 2017.

Program revenues increased between years largely due to increases in charges for services of about \$1.0 million (18.6%) and capital grants and contributions of \$0.3 million (6.0%), which were mainly due to increases in building permits and related fees (\$0.6 million) and development fee collections (\$1.3 million) resulting from increased residential and commercial development and construction activities over the previous year, offset by a reduction in capital contributions from other governments and developers (\$1.0 million) from the prior year. Operating grants and contributions increased \$0.7 (7.7%) million over the prior year, resulting mainly from increases in the amount of housing and highway and street grants over the prior year.

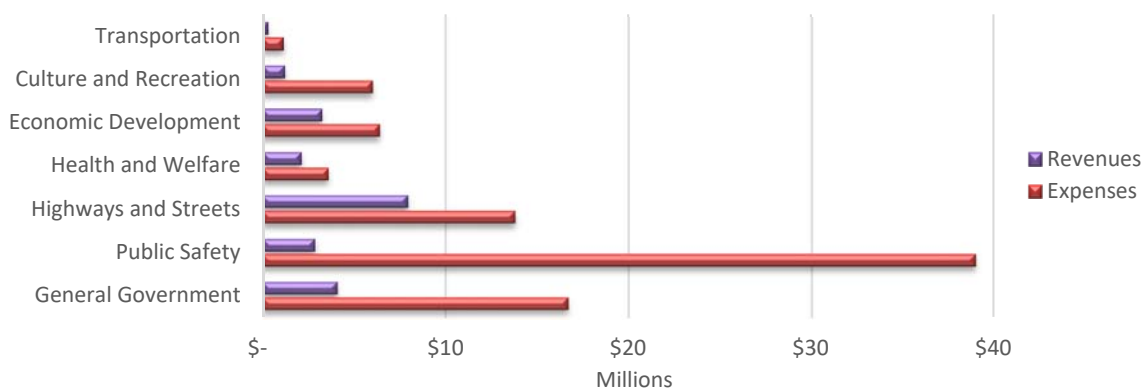
General revenues increased between years mainly due to the following:

- Sales and use taxes increased \$3.0 million (6.4%). An increase in sales and use tax revenues of about 6.0% was projected based on collection trends by tax rate classification and assuming a stable population and employment.
- State-shared revenues increased about \$1.2 million (5.9%). The increase was mainly due to increases in state-shared sales tax revenues of \$0.6 million (7.7%), state-shared income tax revenues of \$0.4 million (4.0%), and auto lieu tax of about \$0.25 million (7.9%) between years. Increases in state-shared sales tax revenues of about 6.0% was projected and an increase in state-shared income tax revenues of about 4.0% was projected based on income taxes collected by the Arizona Department of Revenue for the 2016 tax year.

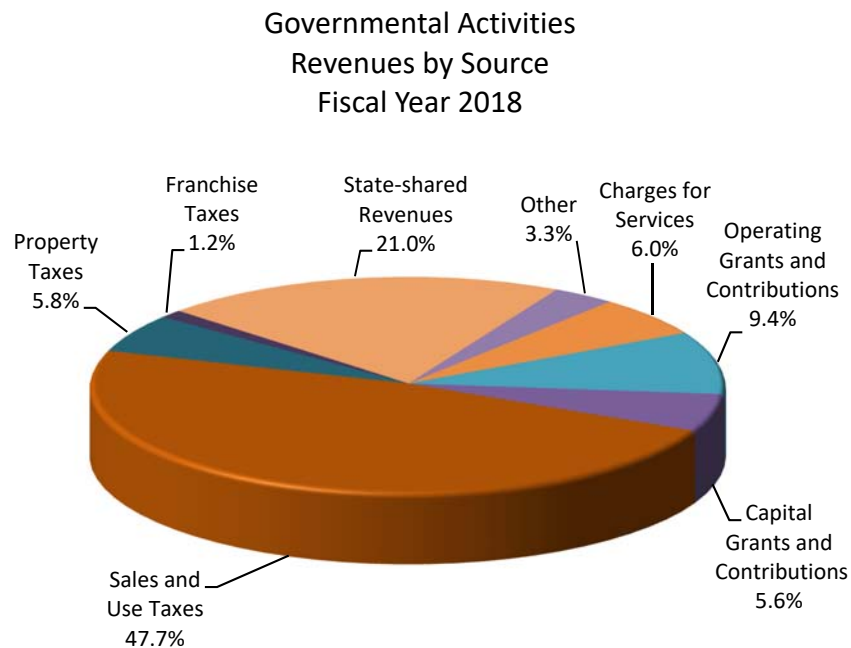
The significant factors and activities affecting governmental activities expenses are addressed in the Governmental Funds section below.

The following graph shows governmental activities functional revenues and expenses in order to demonstrate the extent to which the governmental functions produce direct revenues to offset related program expenses. It should be noted that this graph is not intended to represent a full cost allocation to these functions. Expenses not covered by direct program revenues are covered by the City's general revenues, which consist primarily of taxes and state-shared revenue.

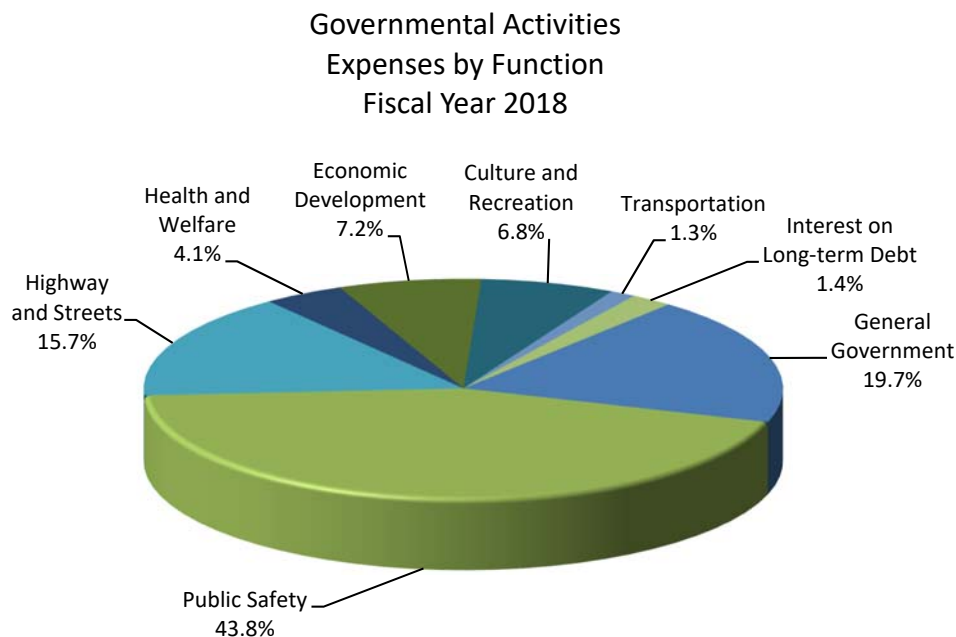
**Governmental Activities
Expenses and Program Revenues
Fiscal Year 2018**



As seen in the following graph, the largest governmental activities revenue sources are sales and use taxes of \$49.4 million (47.7%), followed by state-shared revenues of \$21.7 million (21.0%) and operating grants and contributions of \$9.8 million (9.4%).



The City's largest governmental activities expenses by function include public safety at \$38.6 million (43.8%), followed by general government at \$17.4 million (19.7%) and highway and streets at \$13.8 million (15.7%).



Business-type Activities

Business-type activities increased net position before transfers by \$2.8 million during the year, an increase of about \$2.4 million over the prior year. Program revenues increased \$1.6 million (5.0%) and general revenues increased about \$0.5 million (91.8%) over the prior year, respectively, while program expenses decreased about \$0.2 million from the previous year. Business-type activities accounted for 25.7% of the City's total revenues and 27.2% of total expenses during the year. Program revenues of \$34.7 million were 105.1% of business-type expenses during the year, compared to \$33.0 million, or 99.5%, of expenses in 2017.

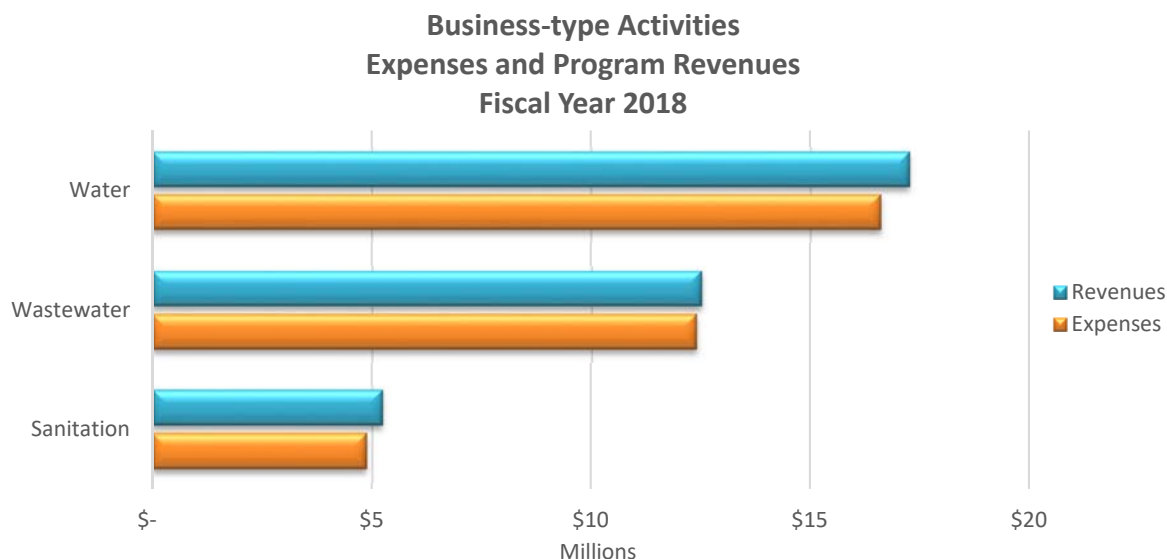
The changes in business-type activities program and general revenues between years were mainly due to the following.

- Charges for services revenue increased about \$1.5 million (5.2%) over the previous year. Most of this increase was due to water sales and sewer fees, which was expected based on a 6% increase in water and sewer rates, as well as changes in the number of service connections, water consumption, and collection trends during the year.
- Capital grants and contributions increased about \$0.13 million (3.3%). This change resulted from the City receiving more water and sewer system development fees and capital contributions between years.

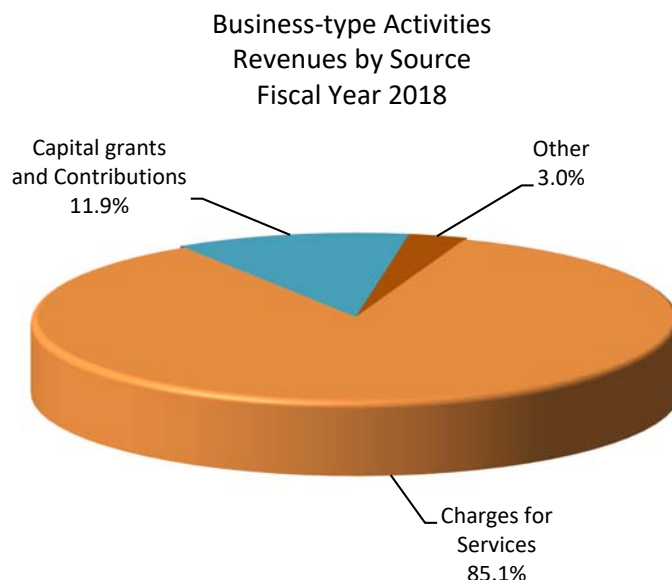
Business-type activities program expenses remained substantially unchanged from the previous year. Some of the more significant changes by activity follow:

- *Water*—Operating expenses increased about \$0.3 million (2.0%) over the prior year. The increase was mainly due to an increase in personnel service costs of about \$0.16 million resulting from an employee compensation package; increase in depreciation expense of \$0.2 million due to the addition of capital assets between years; and increase in operation costs of about \$.12 million to pay for a wetland liner study related to the City's aquifer recharge system; offset by decreases in administrative and facilities maintenance charges of about \$0.18 million between years.
- *Wastewater*—Operating expenses decreased about \$0.8 million (6.2%) from the previous year. This decrease was almost entirely due to the reclassification of wastewater processing and treatment costs incurred to recharge effluent water into the Phoenix Active Management Area for which the City was credited with long-term water storage credits. These credits are presented as long-term inventory in the Water Fund.
- *Sanitation*—Operating expenses increased about \$0.2 million (5.0%) from the previous year. The increase was mainly due to increases in personnel service costs of about \$0.1 million resulting from an employee compensation package, risk management and equipment management charges of \$0.12 million, and administrative and facilities maintenance charges of about \$0.1 million between years.

The following graph shows the revenues and expenses of the business-type activities in order to demonstrate the extent to which the business-type activities produce direct revenues to offset related program expenses. It should be noted that this graph is not intended to represent a full cost allocation to these activities. As noted previously, expenses not covered by direct program revenues are covered by the City's general revenues.



The City's largest business-type activity is water services with program expenses of \$16.6 million and program revenues of \$17.3 million, followed by wastewater services with expenses of \$11.6 million and revenues of \$12.2 million, during the year.



Charges for services, which consist almost entirely of city water sales, sewer fees, and refuse collection fees, provided the largest share of revenues at \$30.4 million or 85.1%, followed by capital grants and contributions of \$4.2 million or 11.9%, which consisted almost entirely of development fees.

FINANCIAL ANALYSIS OF THE CITY'S FUNDS

As noted earlier, the City uses fund accounting to ensure and demonstrate compliance with finance-related legal requirements and to establish and maintain control over city assets as part of its fiduciary responsibility.

Governmental Funds

The focus of the City's governmental fund financial statements is to provide information on near-term inflows, outflows, and balances of spendable resources. Such information is useful in assessing the City's financing requirements. In particular, unassigned fund balance may serve as a useful measure of the City's resources available for spending at year end.

The financial performance of the City, as a whole, is reflected in its governmental funds. As of June 30, 2018, the City reported combined fund balance of \$113.6 million, an increase of \$17.9 million (18.7%) over the previous year. About \$22.8 million (20.0%) of the fund balance is unassigned and \$27.2 million (23.9%) is assigned. These balances are available for spending at the City's discretion. The remainder of the fund balance consists of nonspendable balances of about \$1.2 million (1.1%), restricted balances of \$37.6 million (33.1%), and committed balances of \$24.9 million (21.9%). More information on fund balances can be found in Note 1 - Summary of Significant Accounting Policies on pages 49-59 and Note 7 - Fund Balances on page 65.

General Fund—accounts for all city financial resources not required to be accounted for in other funds. This fund is the City's primary operating fund and accounts for many major functions of the City such as general government, public safety, health and welfare, economic and community development, and culture and recreation. At year end, fund balance of the General Fund was \$48.1 million compared to \$50.8 million in the prior year, a decrease of \$2.7 million (5.3%). The overall decrease in fund balance during the year was largely due to the following.

Revenues increased by about \$4.6 million (7.2%) over the previous year. Taxes and intergovernmental revenues increased \$2.1 million (5.9%) and \$1.1 million (5.3%), respectively, and accounted for most of the revenue increase

between years. License and permits and charges for services revenue also increased about \$0.56 million (25.9%) and about \$0.46 million (28.4%), respectively between years.

- Taxes revenue increased mainly due to an increase in sales tax revenues of about \$2.0 million (6.3%) from growing retail sales. An increase in sales tax revenues of about 6.0% was projected based on collection trends by tax rate classification and assuming a stable population and employment.
- Intergovernmental revenue increased almost entirely from increases in state-shared sales taxes of about \$0.6 million (7.7%), state-shared income taxes of about \$0.4 million (4.0%), and auto lieu tax of about \$0.25 million (7.4%). An increase in state-shared sales tax sales taxes of about 6.0% was projected, and an increase in state-shared income tax revenues of about 4.0% were projected based on income taxes collected by the Arizona Department of Revenue for the 2016 tax year.
- License and permit revenue increased mainly due to ongoing increases in residential and commercial development and construction over the prior year.

Expenditures increased by about \$7.2 million (15.4%) over the previous year. An explanation of some of the significant changes by function follows.

- *General government*—Expenditures increased about \$2.1 million (18.3%) over the prior year. This increase is largely due to a \$1.0 million contribution to the Self-Insurance Fund to cover unanticipated city self-insurance costs, \$0.5 million (8.1%) in employee compensation packages and employee reclassifications which resulted in increases in personnel service costs, an increase in Accelerate Now Program spending of \$0.4 million (21.3%) to promote residential and commercial growth and economic development within the City, and increase in finance and banking fees of \$.13 million due to the General Fund covering fees that had been previously allocated to other funds, offset by an increase in facilities maintenance and administrative charges of \$0.17 million (5.1%).
- *Public safety*—Expenditures increased about \$2.2 million (9.0%) over the previous year. Most of the increase was due to increases in Police Department and Fire and Medical Department employee compensation packages and required pension and other postemployment benefit plan contributions during the year totaling about \$1.8 million, as well as an increase in overtime pay of about \$0.18 million over the previous year.
- *Capital outlay*—Expenditures increased about \$2.3 million (289.8%) over the previous year. The increase was almost entirely due to a chiller plant replacement and building energy efficiency retrofits and upgrades for the City Hall campus.

Transfers out increased about \$11.4 million (147.2%) over the previous year, almost entirely due to increases in transfers to the City's capital project funds of about \$11.4 million to finance capital projects, including a new city resource center.

Dedicated Sales Tax Revenue Fund—accounts for the voter-approved 0.5-cent dedicated sales tax revenues. The use of these revenues is restricted to maintaining, improving, renovating, and constructing water and sewer systems and streets that serve city neighborhoods, as well as transportation projects and services. The tax was approved by the voters and became effective in July 2001, and amended by voters in September 2008, to include transportation projects and services.

Revenues, which consist almost entirely of the half-cent sales tax revenue, increased about \$0.54 million (7.2%) over the previous year. An increase in sales tax revenues of around 6.0% was projected. Net fund activities increased fund balance by about \$1.5 million (44.1%) over the previous year.

Public Safety Sales Tax Revenue Fund—accounts for the voter-approved 0.5-cent public safety sales tax revenues. The use of these revenues is restricted to providing increased public safety services for city neighborhoods. The tax was approved by the voters and became effective in January 2004.

Revenues, which consist almost entirely of the half-cent sales tax revenue, increased about \$0.54 million (7.3%) over the prior year. An increase in sales tax revenues of around 6.0% was projected.

Expenditures increased about \$0.4 million (6.6%) over the prior fiscal year. Most of the increase was due to increases in Police Department and Fire and Medical Department employee compensation packages and required pension and other postemployment benefit plan contributions during the year totaling about \$0.8 million, offset largely by decreases in general operating costs of \$0.2 million and capital outlay of \$0.3 million between years.

Transfers to other funds decreased about \$0.34 million from the previous year, largely due to transfers to the Fire Development Fund to finance upgrades and improvements to Fire Station 172, as well as decreases in transfers to the Vehicle Replacement Fund resulting from the purchase of new patrol vehicles.

Net fund activities increased fund balance by about \$0.8 million over the previous year.

Development Fees Fund—accounts for development fees collected from developers for growth-related development; and construction based on the impact the development will have on city services and infrastructure, as well as bond proceeds, sales tax and grant revenues, other revenues, and fund transfers that are restricted, committed or assigned to debt service or capital development and maintenance. The fee is allowable under A.R.S. §9-463.05. Development fees are collected with each new building permit issued. The City charges development fees for streets, libraries, parks and recreation, police and fire, and general government projects.

Revenues increased \$1.3 million (41.6%) over the prior year. This increase was mainly due to increases in licenses and permit revenue of \$1.3 million (44.7%). The increase was due to increases in development fee collections from increased residential and commercial development.

Expenditures decreased \$1.1 million (10.6%) from the previous year. The decrease was almost entirely due to a decrease in spending on street construction and improvement projects and park renovations and enhancements between years.

Transfers in increased about \$1.5 million (29.6%) between years largely due to increases in the number and size of capital projects funded started during the year. Transfer out remained substantially unchanged between years.

Net fund activities increased fund balance by \$3.6 million over the prior year.

Proprietary Funds—The proprietary fund financial statements are prepared using the same measurement focus and accounting basis as the government-wide financial statements, but they provide more detail since each major enterprise fund is presented discretely. Of the total enterprise funds net position of \$532.1 million, \$445.9 million consisted of net investment in capital assets, \$21.1 million was restricted, and \$65.1 million was unrestricted. The factors concerning the finances of these funds, as well as the changes in net position, have been addressed previously during the discussion of the City's business-type activities.

BUDGETARY HIGHLIGHTS

The City's *Annual Budget and Financial Plan* (council-adopted budget) establishes the legal level of expenditure control. Amendments to the adopted budget may occur throughout the year, in a legally permissible manner, between departments within the General Fund and within funds in all other funds. During the year, budget adjustments did occur. None of the adjustments increased the City's total budget and all budget amendments were routine in nature. For more information on budgets and budgetary accounting, see Note 1 – Summary of Significant Accounting Policies, pages 53-54.

On August 30, 2016, city voters approved an alternative expenditure limitation (Home Rule Option), the effect of which allowed the City's total budgeted expenditures of the adopted budget to become the expenditure limitation for that year on a total budget basis. This alternative expenditure limitation is effective for four years.

Budgetary comparison statements are required for the General Fund and all major special revenue funds. These statements compare the original adopted budget, the budget as amended throughout the year, and the actual revenues and expenditures. Budgetary comparison statements for the General Fund and major special revenue funds can be found on pages 35-37. Budgetary comparison schedules for all other governmental funds can be found on pages 103 and 115-128.

General Fund Budgetary Analysis

General Fund revenues of \$67.6 million exceeded budgeted inflows by \$3.4 million or 5.2%, while expenditures and other financing uses of \$73.0 million was only 91.5% of final budgeted outflows of \$79.8 million. A more detailed analysis of General Fund revenues, expenditures, and other financing sources and use is outlined in the governmental funds section of this analysis.

During the year, the original budget was amended in a legally permissible manner. All budget amendments were routine in nature, and no budget adjustments increased the budget on a total funds basis. The following summarizes significant changes to the original budgeted expenditures and significant budget variances by function during the year.

General Government—The original adopted budget was amended and increased by about \$0.1 million during the year. Actual expenditures were less than final budgeted expenditures by about \$4.3 million largely due to about \$2.7 million of unspent contingency appropriations, \$0.9 million of unused transaction privilege tax incentive rebate appropriations, and lower-than-expected Accelerate Now Development Program spending by about \$0.4 million.

Culture and Recreation— The original adopted budget was amended, but remained substantially unchanged during the year. Actual expenditures were less than final budgeted expenditures by about \$0.4 million, largely due to \$0.4 million of unspent restricted use appropriations related to library donations and recreation revenues.

Economic and Community Development—The original adopted budget was amended, but remained substantially unchanged from the original budget. Actual expenditures were less than final budgeted expenditures by about \$0.9 million, largely due Economic Opportunities Program budgetary savings of about \$0.7 million, of which \$0.4 million was carried over into the 2019 budget.

Capital outlay—The original adopted budget was amended and increased by \$2.9 million to fund a chiller plant replacement and building energy efficiency retrofits and upgrades project. Actual project expenditures exceeded final budgeted project expenditures by about \$0.12 million.

CAPITAL ASSETS AND DEBT ADMINISTRATION

Capital Assets—As of June 30, 2018, the City had invested about \$1.0 billion in governmental and business-type capital assets, net of accumulated depreciation. Total depreciation expense for the year was \$32.4 million, with \$17.7 million attributed to governmental activities and \$14.7 million to business-types activities.

The following schedule presents capital asset balances as of June 30, 2018, and June 30, 2017. Additional information on the City's capital assets can be found in Note 6 - Capital Assets on pages 63-64.

	Governmental Activities		Business-type Activities		Total		Percent Change
	2018	2017	2018	2017	2018	2017	
Land	\$ 256,459,877	\$ 256,331,391	\$ 16,273,312	\$ 16,273,312	\$ 272,733,189	\$ 272,604,703	0.0 %
Buildings and improvements	53,648,742	55,029,272	-	-	53,648,742	55,029,272	(2.5)
Improvements other than building	21,340,984	21,880,773	481,902	522,342	21,822,886	22,403,115	-2.6
Vehicles, furniture and equipment	9,330,170	11,802,652	4,663,875	5,629,245	13,994,045	17,431,897	(19.7)
General infrastructure	212,050,465	218,393,067			212,050,465	218,393,067	(2.9)
Water system			204,286,612	210,206,390	204,286,612	210,206,390	(2.8)
Sewer system			145,247,593	149,399,002	145,247,593	149,399,002	(2.8)
Wastewater treatment system			63,244,815	64,246,440	63,244,815	64,246,440	(1.6)
Intangible assets	1,435,728	1,501,237	3,982,708	4,057,222	5,418,436	5,558,459	(2.5)
Construction in progress	9,473,625	1,977,620	19,231,745	3,955,940	28,705,370	5,933,560	383.8
Total	<u>\$ 563,739,591</u>	<u>\$ 566,916,012</u>	<u>\$ 457,412,562</u>	<u>\$ 454,289,893</u>	<u>\$ 1,021,152,153</u>	<u>\$ 1,021,205,905</u>	(0.0)

The City's combined capital assets balances remained substantially unchanged between years, with governmental activities decreasing by about \$3.2 million and business-type activities increasing by about \$3.1 million between years. The changes in capital asset balances were due to the following.

Governmental Activities—The \$3.2 million decrease between years consisted of \$17.7 million of capital assets additions, offset by \$3.0 million of transfers from construction in progress and \$17.7 million in accumulated depreciation during the year. Capital additions included \$10.5 million of new construction in progress (includes \$3.0 million for chiller plant replacement and building energy efficiency retrofits and upgrades; \$2.6 million for the citywide streetlight replacement program; \$3.6 million for street and roadway construction and improvements such as citywide preventive street maintenance, mill and overlay, and street drainage improvements; and \$1.3 million for neighborhood and park improvements); \$0.9 million of buildings and improvements, \$3.6 million of street systems infrastructure, and \$1.8 million of vehicle, machinery and equipment purchases.

Business-type Activities—The \$3.1 million increase between years consisted of \$19.4 million of capital additions, offset by \$1.6 million transferred from construction in progress and \$14.6 million in accumulated depreciation during the year. Capital additions included \$16.9 million of new construction in progress (includes \$5.0 million of water well expansion and improvements, \$8.9 million of water reclamation facility upgrades, \$1.4 million of sewer system upgrades and improvements, and \$0.7 million of building energy efficiency retrofits and upgrades).

The City has adopted a ten-year capital improvement plan for years 2019 through 2028, with budgeted capital outlays totaling \$453.1 million. The plan, which includes \$116.8 million of budgeted capital outlays for 2019, takes into consideration all known capital needs and ties potential revenue sources to those needs. Anticipated funding for 2019 is through a combination of existing fund balances (41.7%), development (impact) fees (7.2%), bond proceeds (36.9%), outside funding sources such as grants and intergovernmental cost-sharing agreements (1.9%), and operating and non-operating revenues and other financing sources (12.3%). The capital improvement plan is updated annually as part of the City's formal budgetary process.

Debt Administration—As of June 30, 2018, the City had total long-term obligations outstanding of \$133.0 million, down \$1.5 million (1.1%) from the previous year. Of this balance, \$114.2 million (85.8%) was attributable to governmental activities and \$18.9 million (14.2%) was attributable to business-type activities. Of the total outstanding bonds of \$59.6 million, net of unamortized discounts and premiums, \$24.0 million (40.3%) are general obligation bonds backed by the full faith and credit of the City, and \$35.6 million (59.7%) were revenue bonds secured by pledges of specific revenue sources of the City. Of the \$59.6 million of long-term debt obligations, \$9.8 million is due within one year. Of the remaining long-term obligations, \$61.7 million reflects the City's net pension and other postemployment benefit (OPEB) obligation and \$4.5 million of obligations under capital leases.

On December 14, 2017, the City issued \$21,350,000 of General Obligation Refunding Bonds, Tax-Exempt Series 2017A and Taxable Series 2017B to refund \$20,900,000 of outstanding General Obligation Bonds, Taxable Series 2009, and pay related bond issue costs. The refunding was undertaken to reduce future debt services payments by \$5,951,684 over the next twelve years and resulted in an economic gain (net present value savings) of \$3,543,487.

The Arizona Constitution imposes certain debt limitations on the City of six percent (6%) and twenty percent (20%) of the City's net full cash property assessed value (formerly referred to as secondary assessed valuation). The City's legal debt margin at June 30, 2018, and June 30, 2017, is \$30.6 million and \$27.6 million in the 6% capacity and \$82.5 million and \$70.7 million in the 20% capacity, respectively. Additional debt limitation and capacity information can be found in the statistical section of this report.

The following schedule presents a summary of the City's outstanding long-term obligations as of June 30, 2018, and June 30, 2017. Additional information on the City's outstanding long-term obligations can be found in Note 8 – Pension Plans on pages 65-81, Note 9 - Long-term Obligations on pages 82-86, and the required supplementary information section on pages 93-100.

	Governmental Activities		Business-type Activities		Total		Percent Change
	2018	2017	2018	2017	2018	2017	
Compensated absences	\$ 5,494,967	\$ 5,710,800	\$ 735,445	\$ 754,014	\$ 6,230,412	\$ 6,464,814	(3.6) %
Capital leases payable	4,542,254	273,100	-	-	4,542,254	273,100	1563.2
Claims payable	935,032	2,579,010	-	-	935,032	2,579,010	(63.7)
General obligation bonds	21,740,000	22,310,000	-	-	21,740,000	22,310,000	(2.6)
Pledged Revenue Obligations	22,418,375	27,417,070	626,626	757,930	23,045,001	28,175,000	(18.2)
Highway user revenue bonds	-	330,000	-	-	-	330,000	(100.0)
Water and sewer revenue bonds	-	-	9,080,000	9,915,000	9,080,000	9,915,000	(8.4)
Unamortized premiums and discounts, net	4,579,194	2,762,970	1,165,065	1,280,618	5,744,259	4,043,588	42.1
Net pension and other post-employment benefits liability	54,476,039	52,945,526	7,250,653	7,486,404	61,726,692	60,431,930	2.1
Total	<u>\$ 114,185,861</u>	<u>\$ 114,328,476</u>	<u>\$ 18,857,789</u>	<u>\$ 20,193,966</u>	<u>\$ 133,043,650</u>	<u>\$ 134,522,442</u>	(1.1)

ECONOMIC FACTORS

The City remains dependent on sales taxes and other economically sensitive revenues and is greatly influenced by the national, state and local economy. All have seen growth in recent years, showing substantial recovery from the Great Recession we experienced ten years ago. Unemployment rates have fallen to about 4.7% in Arizona and 4.4% in Avondale.

The City continued to see an upward trend in local revenue during the year, increasing about 7.7% over the previous year, and retail sales have improved significantly over the past several years. We expect the upward trend in local revenue to continue for fiscal year 2019.

Construction sales tax collections had been at a ten-year low during fiscal years 2014 and 2015. Due to the improving economy and the City Council's Accelerate Now initiative, single family housing permits have increased from only 68 in fiscal year 2015 to over 200 in each of the last three fiscal years. There were 229 new single permits issued during

the current fiscal year. While residential construction sales tax is not collected until the home sells, construction sales tax has increased by about \$0.7 million between fiscal years 2017 and 2018. In addition, the City experienced a 6.3% increase in the net limited assessed property value, growing from \$349,102,604 to \$370,922,156 for fiscal year 2018.

The City's 2019 budget is structurally balanced and reflects continued growth in recurring General Fund revenues. As Avondale experiences economic growth, City leaders have strategically increased resources to maintain and enhance current levels of service for residents, while gradually increasing staffing levels. Most of these staffing and service level increases are necessary to meet the demands of the City's growing population, increase in development projects, and growing economy.

Request for Information

This financial report is designed to provide our citizens, taxpayers, customers, investors, and creditors with a general overview of the City's finances and to demonstrate the City's accountability for the money it receives. If you have any questions about this report or need additional financial information, please visit our website at <http://www.avondaleaz.gov> or contact:

City of Avondale
Finance and Budget Department
11465 W. Civic Center Drive, Suite 250
Avondale, Arizona 85323
(623) 333-2000

FINANCIAL SECTION

Basic Financial Statements

Government-wide Financial Statements include the Statement of Net Position and Statement of Activities, which use the economic resource measurement focus and accrual basis of accounting for financial reporting.

Governmental Fund Financial Statements include the Balance Sheet and the Statement of Revenues, Expenditures, and Changes in Fund Balances for the governmental funds, which use the current financial resources measurement focus and modified accrual basis of accounting for financial reporting.

Proprietary Fund Financial Statements include the Statement of Net Position, Statement of Revenues, Expenses and Changes in Fund Net Position, and Statement of Cash Flows for the business-types activities, which use the economic resource measurement focus and accrual basis of accounting for financial reporting.

Fiduciary Fund Financial Statements include the Statement of Fiduciary Net Position and the Statement of Changes in Fiduciary Net Position for assets being held for the benefit of parties outside of the City. The reporting focus is upon net position and changes in net position and employs accounting principles similar to proprietary funds.

Notes to the Financial Statements include a summary of significant accounting policies and other disclosures considered essential to the fair presentation of the financial statements.



CITY OF AVONDALE, ARIZONA
STATEMENT OF NET POSITION
JUNE 30, 2018

	Primary Government		
	Governmental	Business-type	Total
ASSETS			
Current assets:			
Cash and cash equivalents	\$ 68,556,938	\$ 29,278,963	\$ 97,835,901
Receivables, net:			
Accounts	711,455	6,042,951	6,754,406
Taxes	6,276,969	173,741	6,450,710
Interest	169,050	195,651	364,701
Due from other governments	1,735,821	-	1,735,821
Internal balances	(662,135)	662,135	-
Inventories	483,232	669,558	1,152,790
Prepaid items	93,993	2,388	96,381
Restricted cash:			
Customer deposits	-	3,220,061	3,220,061
Cash with fiscal agents	8,745,883	1,197,294	9,943,177
Cash with third-party administrator	20,000	-	20,000
Total current assets	86,131,206	41,442,742	127,573,948
Noncurrent assets:			
Water storage credits inventory	-	10,845,853	10,845,853
Investments	42,040,747	48,723,173	90,763,920
Equity in joint ventures	588,722	-	588,722
Capital assets:			
Nondepreciable	265,933,502	37,028,812	302,962,314
Depreciable, net	297,806,089	420,383,750	718,189,839
Total noncurrent assets	606,369,060	516,981,588	1,123,350,648
Total assets	692,500,266	558,424,330	1,250,924,596
DEFERRED OUTFLOWS OF RESOURCES			
Deferred charge on debt refunding	2,447,469	8,964	2,456,433
Deferred outflows related to pensions and other postemployment benefits	12,644,046	1,021,010	13,665,056
Total deferred outflows of resources	15,091,515	1,029,974	16,121,489
LIABILITIES			
Current liabilities:			
Accounts payable	4,357,805	2,755,372	7,113,177
Accrued payroll and employee benefits	1,579,461	54,377	1,633,838
Accrued liabilities	1,006,132	211,288	1,217,420
Construction contracts payable	253,319	664,464	917,783
Sales taxes payable	586	264,211	264,797
Due to other governments	20,839	-	20,839
Deposits held for others	327,614	3,230,061	3,557,675
Unearned revenues	124,922	218,718	343,640
Claims payable	567,488	-	567,488
Compensated absences	4,395,974	588,356	4,984,330
Capital leases payable	183,767	-	183,767
General obligation bonds	3,395,540	-	3,395,540
Revenue bonds	5,379,348	1,053,727	6,433,075
Total current liabilities	21,592,795	9,040,574	30,633,369
Noncurrent liabilities:			
Claims payable	367,544	-	367,544
Compensated absences	1,098,993	147,089	1,246,082
Capital leases payable	4,358,487	-	4,358,487
General obligation bonds	20,603,565	-	20,603,565
Revenue bonds	19,359,116	9,817,964	29,177,080
Net pension and other postemployment benefits liability	54,476,039	7,250,653	61,726,692
Total noncurrent liabilities	100,263,744	17,215,706	117,479,450
Total liabilities	121,856,539	26,256,280	148,112,819
DEFERRED INFLOWS OF RESOURCES			
Deferred inflows related to pensions and other postemployment benefits	2,706,997	468,198	3,175,195
Total deferred inflows of resources	2,706,997	468,198	3,175,195
NET POSITION			
Net investment in capital assets	512,653,918	445,885,371	958,539,289
Restricted for:			
Transit services	1,843,700	-	1,843,700
Highways and streets	8,992,407	-	8,992,407
Grant and contributor purposes	2,830,805	-	2,830,805
Public safety	8,811,577	-	8,811,577
Debt service	7,637,808	1,197,294	8,835,102
Capital projects	8,577,695	19,902,034	28,479,729
Unrestricted	31,680,335	65,745,127	97,425,462
Total net position	\$ 583,028,245	\$ 532,729,826	\$ 1,115,758,071

The notes to the financial statements are an integral part of this statement.

CITY OF AVONDALE, ARIZONA
STATEMENT OF ACTIVITIES
YEAR ENDED JUNE 30, 2018

Functions/Programs	Expenses	Program Revenues		
		Charges for	Operating	Capital
		Services	Grants and	Grants and
			Contributions	Contributions
Primary government:				
Governmental activities:				
General government	\$ 17,413,185	\$ 2,074,885	\$ 74,227	\$ 1,947,320
Public safety	38,601,762	440,119	1,591,003	842,668
Highways and streets	13,797,634	97,442	5,550,768	2,307,596
Health and welfare	3,592,893	-	2,133,928	-
Economic and community development	6,354,065	3,255,772	2,998	-
Culture and recreation	5,964,961	383,379	101,889	743,828
Transportation	1,138,438	-	304,695	-
Interest on long-term debt	1,268,556	-	-	-
Total governmental activities	<u>88,131,494</u>	<u>6,251,597</u>	<u>9,759,508</u>	<u>5,841,412</u>
Business-type activities:				
Water	16,560,738	15,451,443	-	1,814,878
Wastewater	11,620,939	9,731,664	-	2,428,044
Sanitation	4,809,711	5,247,119	-	-
Total business-type activities	<u>32,991,388</u>	<u>30,430,226</u>	<u>-</u>	<u>4,242,922</u>
Total primary government	<u>\$ 121,122,882</u>	<u>\$ 36,681,823</u>	<u>\$ 9,759,508</u>	<u>\$ 10,084,334</u>

General revenues:

Taxes:

Sales and use taxes

Property taxes, levied for general purposes

Property taxes, levied for debt service

Franchise taxes

State-shared revenues, unrestricted

Investment income:

Interest Income

Net decrease in the fair value of investments

Gain (Loss) on sale of capital assets

Miscellaneous

Transfers in (out)

Total general revenues and transfers

Change in net position

Net position as restated, July 1, 2017

Net position, June 30, 2018

The notes to the financial statements are an integral part of this statement.

Net (Expense) Revenue and Changes in Net Position		
Primary Government		
Governmental Activities	Business-type Activities	Total
\$ (13,316,753)	\$ -	\$ (13,316,753)
(35,727,972)	-	(35,727,972)
(5,841,828)	-	(5,841,828)
(1,458,965)	-	(1,458,965)
(3,095,295)	-	(3,095,295)
(4,735,865)	-	(4,735,865)
(833,743)	-	(833,743)
(1,268,556)	-	(1,268,556)
(66,278,977)	-	(66,278,977)
-	705,583	705,583
-	538,769	538,769
-	437,408	437,408
-	1,681,760	1,681,760
(66,278,977)	1,681,760	(64,597,217)
49,443,328	-	49,443,328
2,794,009	-	2,794,009
3,166,482	-	3,166,482
1,256,448	-	1,256,448
21,713,658	-	21,713,658
980,451	875,128	1,855,579
(319,731)	(374,506)	(694,237)
(40,759)	124,425	83,666
2,748,927	456,716	3,205,643
(150,000)	150,000	-
81,592,813	1,231,763	82,824,576
15,313,836	2,913,523	18,227,359
567,714,409	529,816,303	1,097,530,712
\$ 583,028,245	\$ 532,729,826	\$ 1,115,758,071



FINANCIAL SECTION

Governmental Fund Financial Statements

Major Funds

General Fund accounts for all financial resources of the City, except those required to be accounted for in other funds. This fund is the City's chief operating fund.

Dedicated Sales Tax Revenue Fund is a special revenue fund that accounts for the voter-approved 0.5-cent dedicated sales tax revenues. The use of these revenues is restricted to maintaining, improving, renovating, and constructing water and sewer systems and streets, and transportation projects and services that serve city neighborhoods.

Public Safety Sales Tax Revenue Fund is a special revenue fund that accounts for the voter-approved 0.5-cent public safety sales tax revenues. The use of these revenues is restricted to providing increased public safety services for city neighborhoods.

Development Fees Fund is a capital projects fund that accounts for fees collected from developers for growth-related development and construction based on the impact the development will have on city services and infrastructure, as well as bonds proceeds, sales tax and grant revenues, and fund transfers that are restricted, committed or assigned to capital development and maintenance.

Nonmajor Funds

All other governmental funds are nonmajor funds. These funds can be found on pages 104-112.

CITY OF AVONDALE, ARIZONA
BALANCE SHEET
GOVERNMENTAL FUNDS
JUNE 30, 2018

	General Fund	Dedicated Sales Tax Revenue Fund	Public Safety Sales Tax Revenue Fund
ASSETS			
Cash and cash equivalents	\$ 16,205,219	\$ 2,894,521	\$ 4,377,376
Investments	27,715,548	958,821	3,355,875
Receivables:			
Taxes	4,312,855	946,405	946,380
Accounts	486,204	587	1,930
Interest	110,242	4,427	15,495
Due from other funds	1,735,959	-	-
Due from other governments	542,590	-	-
Inventories	-	-	-
Prepaid items	86,099	-	1,455
Restricted cash with fiscal agents	-	-	-
Advances to other funds	833,000	-	-
Total assets	<u>\$ 52,027,716</u>	<u>\$ 4,804,761</u>	<u>\$ 8,698,511</u>
LIABILITIES			
Accounts payable	\$ 1,754,273	\$ 596	\$ 94,103
Accrued payroll and employee benefits	1,436,755	-	-
Accrued liabilities	46,387	-	-
Construction contracts payable	143,744	-	-
Deposits held for others	295,739	-	-
Sales taxes payable	586	-	-
Due to other governments	-	-	-
Due to other funds	-	-	-
Unearned revenues	-	-	-
Advances from other funds	-	-	-
Total liabilities	<u>3,677,484</u>	<u>596</u>	<u>94,103</u>
DEFERRED INFLOWS OF RESOURCES			
Unavailable revenue - property taxes	33,400	-	-
Unavailable revenue - other	244,118	-	-
Total deferred inflows of resources	<u>277,518</u>	<u>-</u>	<u>-</u>
FUND BALANCES			
Nonspendable	919,099	-	1,455
Restricted	50,965	4,804,165	8,602,953
Committed	21,867,357	-	-
Assigned	2,386,030	-	-
Unassigned	22,849,263	-	-
Total fund balances	<u>48,072,714</u>	<u>4,804,165</u>	<u>8,604,408</u>
Total liabilities, deferred inflows of resources, and fund balances	<u>\$ 52,027,716</u>	<u>\$ 4,804,761</u>	<u>\$ 8,698,511</u>

The notes to the financial statements are an integral part of this statement.

Development Fees Fund	Nonmajor Governmental Funds	Total Governmental Funds
\$ 11,967,249	\$ 29,378,269	\$ 64,822,634
-	7,016,348	39,046,592
-	71,329	6,276,969
-	111,792	600,513
-	28,672	158,836
-	-	1,735,959
-	1,302,364	1,844,954
-	267,598	267,598
-	6,310	93,864
-	8,745,883	8,745,883
-	-	833,000
<u>\$ 11,967,249</u>	<u>\$ 46,928,565</u>	<u>\$ 124,426,802</u>
\$ 1,783,890	\$ 572,161	\$ 4,205,023
-	98,718	1,535,473
-	969,745	1,016,132
104,910	4,665	253,319
-	21,875	317,614
-	-	586
-	20,839	20,839
-	1,589,172	1,589,172
124,922	-	124,922
833,000	-	833,000
<u>2,846,722</u>	<u>3,277,175</u>	<u>9,896,080</u>
-	39,019	72,419
-	589,020	833,138
-	628,039	905,557
-	273,908	1,194,462
1,177,750	22,971,247	37,607,080
2,938,151	83,514	24,889,022
5,004,626	19,772,172	27,162,828
-	(77,490)	22,771,773
<u>9,120,527</u>	<u>43,023,351</u>	<u>113,625,165</u>
<u>\$ 11,967,249</u>	<u>\$ 46,928,565</u>	<u>\$ 124,426,802</u>

CITY OF AVONDALE, ARIZONA
RECONCILIATION OF THE GOVERNMENTAL FUNDS BALANCE SHEET
TO THE GOVERNMENT-WIDE STATEMENT OF NET POSITION
JUNE 30, 2018

Total fund balances—governmental funds \$ 113,625,165

Amounts reported for governmental activities in the Statements of Net Position are different because:

Capital assets used in governmental activities are not financial resources and, therefore, are not reported in the funds.

Capital assets	\$ 815,500,697	
Accumulated depreciation	<u>(251,761,106)</u>	563,739,591

Long-term liabilities, such as net pension/OPEB liabilities and bonds payable, are not due and payable in the current period and, therefore, are not reported as liabilities in the funds.

Compensated absences	(5,494,967)	
Bonds payable	(44,158,375)	
Capital leases payable	(4,542,254)	
Net pension/OPEB liability	<u>(54,476,039)</u>	(108,671,635)

Equity in joint ventures are not financial resources and, therefore, are not reported in the funds.		588,722
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Some items related to the issuance of bonds are recognized at the time of issuance in the funds, but are amortized over the life of the debt in the government-wide statements.

Bond discount/premium, net		(4,579,194)
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Deferred outflows and inflows of resources related to pensions/OPEB and deferred charges or credits on debt refundings are applicable to future reporting periods and, therefore, are not reported in the funds.

Deferred charge on debt refunding	2,447,469	
Deferred outflows related to pensions/OPEB	12,644,046	
Deferred inflows related to pensions/OPEB	<u>(2,706,997)</u>	12,384,518

Internal service funds are used by management to charge the costs of certain activities, including risk management, printing services, and fleet management to individual funds. The assets and liabilities of the internal service funds are included in governmental activities on the Statement of Net Position.		5,035,521
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Some receivables are not available to pay for current-period expenditures and, therefore, are reported as unavailable revenue in the funds.

Intergovernmental	833,138	
Property taxes	<u>72,419</u>	905,557

Net position of governmental activities		<u><u>\$ 583,028,245</u></u>
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The notes to the financial statements are an integral part of this statement.



CITY OF AVONDALE, ARIZONA
STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES
GOVERNMENTAL FUNDS
YEAR ENDED JUNE 30, 2018

	General Fund	Dedicated Sales Tax Revenue Fund	Public Safety Sales Tax Revenue Fund
Revenues			
Taxes	\$ 37,581,378	\$ 7,967,760	\$ 7,967,760
Licenses and permits	2,696,687	-	-
Intergovernmental	22,104,403	-	-
Charges for services	2,061,757	-	-
Fines, forfeitures, and penalties	1,275,599	-	-
Investment income			
Interest Income	464,003	10,463	40,868
Net decrease in fair value of investments	(206,532)	(8,230)	(28,805)
Contributions	20,672	-	-
Miscellaneous	1,588,285	-	16,567
Total revenues	<u>67,586,252</u>	<u>7,969,993</u>	<u>7,996,390</u>
Expenditures			
Current:			
General government	13,851,178	-	264,059
Public safety	26,873,354	-	6,535,561
Highways and streets	-	-	-
Health and welfare	1,489,684	-	-
Economic and community development	4,311,951	-	-
Culture and recreation	4,116,553	-	-
Transportation	-	-	-
Debt service:			
Principal	-	-	-
Interest and other charges	-	-	-
Capital outlay	3,138,304	-	9,885
Total expenditures	<u>53,781,024</u>	<u>-</u>	<u>6,809,505</u>
Excess (deficiency) of revenues over (under) expenditures	<u>13,805,228</u>	<u>7,969,993</u>	<u>1,186,885</u>
Other financing sources (uses)			
Refunding bonds issued	-	-	-
Payments to refunded bonds escrow agent	-	-	-
Bond premium	-	-	-
Capital leases	2,677,308	-	-
Sale of capital assets	7,974	-	-
Transfers in	-	-	-
Transfers out	(19,183,060)	(6,500,000)	(372,555)
Total other financing sources (uses)	<u>(16,497,778)</u>	<u>(6,500,000)</u>	<u>(372,555)</u>
Net change in fund balances	(2,692,550)	1,469,993	814,330
Fund balances, July 1, 2017	<u>50,765,264</u>	<u>3,334,172</u>	<u>7,790,078</u>
Fund balances, June 30, 2018	<u>\$ 48,072,714</u>	<u>\$ 4,804,165</u>	<u>\$ 8,604,408</u>

The notes to the financial statements are an integral part of this statement.

Development Fees Fund	Nonmajor Governmental Funds	Total Governmental Funds
\$ -	\$ 3,138,635	\$ 56,655,533
4,166,268	279,841	7,142,796
126,849	8,997,931	31,229,183
-	87,929	2,149,686
-	-	1,275,599
126,881	282,561	924,776
-	(53,248)	(296,815)
-	317,931	338,603
116,906	573,829	2,295,587
4,536,904	13,625,409	101,714,948
-	481,942	14,597,179
22,302	1,464,503	34,895,720
1,357,184	1,551,560	2,908,744
-	2,230,021	3,719,705
-	2,020,074	6,332,025
56,252	12,376	4,185,181
-	1,029,151	1,029,151
-	6,621,797	6,621,797
-	1,914,361	1,914,361
8,053,026	1,735,567	12,936,782
9,488,764	19,061,352	89,140,645
(4,951,860)	(5,435,943)	12,574,303
-	21,350,000	21,350,000
-	(23,395,316)	(23,395,316)
-	2,464,479	2,464,479
1,864,946	-	4,542,254
348,097	131,139	487,210
6,711,953	20,333,990	27,045,943
(334,676)	(795,922)	(27,186,213)
8,590,320	20,088,370	5,308,357
3,638,460	14,652,427	17,882,660
5,482,067	28,370,924	95,742,505
\$ 9,120,527	\$ 43,023,351	\$ 113,625,165

CITY OF AVONDALE, ARIZONA
RECONCILIATION OF THE GOVERNMENTAL FUNDS STATEMENT OF
REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES TO THE
GOVERNMENT-WIDE STATEMENT OF ACTIVITIES
YEAR ENDED JUNE 30, 2018

Total net change in fund balances—governmental funds		\$ 17,882,660
Amounts reported for governmental activities in the Statement of Activities are different because:		
Governmental funds report capital outlays as expenditures. However, in the Statement of Activities, the cost of those assets is allocated over their estimated useful lives and reported as depreciation expense.		
Expenditures for capital assets	\$ 12,936,782	
Depreciation expense	<u>(17,573,743)</u>	(4,636,961)
The net effect of miscellaneous capital asset transactions (e.g., contributions, transfers and disposals) not recorded in governmental funds.		1,219,875
City pension/OPEB contributions are reported as expenditures in the governmental funds when made. However, they are reported as deferred outflows of resources in the Statement of Net Position because the net pension/OPEB liability is measured a year before the City's report date. Pension/OPEB expense, which is the change in the net pension/OPEB liability adjusted for changes in deferred outflows and inflows of resources related to pensions/OPEB, is reported in the Statement of Activities.		
City pension/OPEB contributions	4,101,746	
Pension/OPEB expense	<u>(7,525,704)</u>	(3,423,958)
Debt proceeds provide current financial resources to governmental funds, but issuing debt increases long-term liabilities in the Statement of Net Position. Repayment of debt principal is an expenditure in the governmental funds, but the repayment reduces long-term liabilities in the Statement of Net Position. Also, governmental funds report the effect of discounts, premiums, and similar items when debt is issued, whereas these amounts are amortized in the Statement of Activities.		
Bond and premium on issuance	(23,814,479)	
Payments to refunded bonds escrow agent	23,395,316	
Principal paid on long-term debt	6,348,697	
Capital lease proceeds	(4,542,254)	
Principal paid on capital leases	273,100	
Amortization of bond discount/premium	642,891	
Amortization of deferred charge on debt refunding	<u>(396,568)</u>	1,906,703
Internal service funds are used by management to charge the costs of certain activities to individual funds. The net revenue (expense) of internal service funds is reported with governmental activities in the Statement of Activities.		580,192
Some revenues and expenses reported in the Statement of Activities do not provide or use current financial resources and, therefore, are not reported as revenues or expenditures in governmental funds.		
Compensated absences	225,077	
Property taxes	51,968	
Intergovernmental revenue	(287,291)	
Claims and judgments	1,821,063	
Change in equity in joint ventures	<u>(25,492)</u>	1,785,325
Change in net position of governmental activities		<u>\$ 15,313,836</u>

The notes to the financial statements are an integral part of this statement.

FINANCIAL SECTION

Major Governmental Funds Budgetary Comparison Statements

CITY OF AVONDALE, ARIZONA

STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL

GENERAL FUND

YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Taxes	\$ 36,615,379	\$ 36,615,379	\$ 37,581,378	\$ 965,999
Licenses and permits	2,064,610	2,064,610	2,696,687	632,077
Intergovernmental	21,334,870	21,334,870	22,104,403	769,533
Charges for services	1,740,200	1,740,200	2,061,757	321,557
Fines, forfeitures, and penalties	1,208,320	1,208,320	1,275,599	67,279
Investment income	200,000	200,000	257,471	57,471
Contributions	14,660	14,660	20,672	6,012
Miscellaneous	1,049,280	1,049,280	1,588,285	539,005
Total revenues	64,227,319	64,227,319	67,586,252	3,358,933
Expenditures				
Current:				
General government	18,009,470	18,112,234	13,851,178	4,261,056
Public safety	26,728,020	26,707,881	26,873,354	(165,473)
Health and welfare	1,936,453	1,927,851	1,489,684	438,167
Economic and community development	5,298,805	5,256,782	4,311,951	944,831
Culture and recreation	4,515,715	4,515,665	4,116,553	399,112
Capital outlay	146,200	3,014,250	3,138,304	(124,054)
Total expenditures	56,634,663	59,534,663	53,781,024	5,753,639
Excess (deficiency) of revenues over (under) expenditures	7,592,656	4,692,656	13,805,228	9,112,572
Other financing sources (uses)				
Capital leases	-	-	2,677,308	2,677,308
Sale of capital assets	(3,710)	(3,710)	7,974	11,684
Transfers out	(20,244,175)	(20,244,175)	(19,183,060)	1,061,115
Total other financing sources (uses)	(20,247,885)	(20,247,885)	(16,497,778)	3,750,107
Net change in fund balance	(12,655,229)	(15,555,229)	(2,692,550)	12,862,679
Fund balance, July 1, 2017	41,423,097	41,423,097	50,765,264	9,342,167
Fund balance, June 30, 2018	\$ 28,767,868	\$ 25,867,868	\$ 48,072,714	\$ 22,204,846

The notes to the financial statements are an integral part of this statement.

CITY OF AVONDALE, ARIZONA
STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
DEDICATED SALES TAX REVENUE FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with
	Original	Final	Amounts	Final Budget - Positive (Negative)
Revenues				
Taxes	\$ 7,457,001	\$ 7,457,001	\$ 7,967,760	\$ 510,759
Investment income	30	30	2,233	2,203
Total revenues	<u>7,457,031</u>	<u>7,457,031</u>	<u>7,969,993</u>	<u>512,962</u>
Expenditures				
Current:				
General government	4,000	4,000	-	4,000
Total expenditures	<u>4,000</u>	<u>4,000</u>	<u>-</u>	<u>4,000</u>
Excess (deficiency) of revenues over (under) expenditures	<u>7,453,031</u>	<u>7,453,031</u>	<u>7,969,993</u>	<u>516,962</u>
Other financing sources (uses)				
Transfers out	(6,500,000)	(6,500,000)	(6,500,000)	-
Total other financing sources (uses)	<u>(6,500,000)</u>	<u>(6,500,000)</u>	<u>(6,500,000)</u>	<u>-</u>
Net change in fund balance	953,031	953,031	1,469,993	516,962
Fund balance, July 1, 2017	<u>3,074,845</u>	<u>3,074,845</u>	<u>3,334,172</u>	<u>259,327</u>
Fund balance, June 30, 2018	<u>\$ 4,027,876</u>	<u>\$ 4,027,876</u>	<u>\$ 4,804,165</u>	<u>\$ 776,289</u>

The notes to the financial statements are an integral part of this statement.

CITY OF AVONDALE, ARIZONA
STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
PUBLIC SAFETY SALES TAX REVENUE FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with
	Original	Final	Amounts	Final Budget - Positive (Negative)
Revenues				
Taxes	\$ 7,457,001	\$ 7,457,001	\$ 7,967,760	\$ 510,759
Investment income	2,360	2,360	12,063	9,703
Miscellaneous	-	-	16,567	16,567
Total revenues	<u>7,459,361</u>	<u>7,459,361</u>	<u>7,996,390</u>	<u>537,029</u>
Expenditures				
Current:				
General government	764,470	764,470	264,059	500,411
Public safety	6,436,790	6,436,790	6,535,561	(98,771)
Capital outlay	-	-	9,885	(9,885)
Total expenditures	<u>7,201,260</u>	<u>7,201,260</u>	<u>6,809,505</u>	<u>391,755</u>
Excess (deficiency) of revenues over (under) expenditures	<u>258,101</u>	<u>258,101</u>	<u>1,186,885</u>	<u>928,784</u>
Other financing sources (uses)				
Transfers out	<u>(372,555)</u>	<u>(372,555)</u>	<u>(372,555)</u>	-
Total other financing sources (uses)	<u>(372,555)</u>	<u>(372,555)</u>	<u>(372,555)</u>	-
Net change in fund balance	(114,454)	(114,454)	814,330	928,784
Fund balance, July 1, 2017	<u>6,595,229</u>	<u>6,595,229</u>	<u>7,790,078</u>	<u>1,194,849</u>
Fund balance, June 30, 2018	<u>\$ 6,480,775</u>	<u>\$ 6,480,775</u>	<u>\$ 8,604,408</u>	<u>\$ 2,123,633</u>

The notes to the financial statements are an integral part of this statement.

FINANCIAL SECTION

Proprietary Fund Financial Statements

Major Funds

Water Fund accounts for the operation, maintenance, and financing of the City's water services, which provide for the production, treatment, storage, and distribution of potable water supplies to city customers.

Wastewater Fund accounts for the operation, maintenance, and financing of the City's wastewater services, which ensure the effective operation of the wastewater collection system and the water reclamation facility in compliance with application regulations, with an emphasis on the production of reclaimed water for recharge and reuse.

Sanitation Fund accounts for the operation, maintenance, and financing of the City's solid waste and recycling services, which includes its solid waste collection, recycling and disposal system.

Internal Service Funds

These funds can be found on pages 130-133.

CITY OF AVONDALE, ARIZONA
STATEMENT OF NET POSITION
PROPRIETARY FUNDS
JUNE 30, 2018

	Business-type Activities—Enterprise Funds				Governmental Activities
	Water	Wastewater	Sanitation	Total	Internal Service Funds
ASSETS					
Current assets:					
Cash and cash equivalents	\$ 14,026,572	\$ 9,798,018	\$ 5,454,373	\$ 29,278,963	\$ 3,734,304
Receivables:					
Accounts, net	3,324,740	1,782,757	935,454	6,042,951	1,809
State and county taxes	173,741	-	-	173,741	-
Interest	116,508	56,502	22,641	195,651	10,214
Inventories	575,820	69,600	24,138	669,558	215,634
Prepaid items	2,388	-	-	2,388	129
Restricted cash:					
Customer deposits	3,220,061	-	-	3,220,061	-
Cash with fiscal agents	39,073	1,158,221	-	1,197,294	-
Cash with third-party administrator	-	-	-	-	20,000
Total current assets	<u>21,478,903</u>	<u>12,865,098</u>	<u>6,436,606</u>	<u>40,780,607</u>	<u>3,982,090</u>
Noncurrent assets:					
Water storage credits inventory	10,845,853	-	-	10,845,853	-
Investments	29,260,093	12,995,360	6,467,720	48,723,173	2,994,155
Capital assets:					
Nondepreciable	22,253,293	14,462,534	312,985	37,028,812	-
Depreciable, net	209,263,065	209,579,862	1,540,823	420,383,750	284,259
Total noncurrent assets	<u>271,622,304</u>	<u>237,037,756</u>	<u>8,321,528</u>	<u>516,981,588</u>	<u>3,278,414</u>
Total assets	<u>293,101,207</u>	<u>249,902,854</u>	<u>14,758,134</u>	<u>557,762,195</u>	<u>7,260,504</u>
DEFERRED OUTFLOWS OF RESOURCES					
Deferred charge on debt refunding	-	8,964	-	8,964	-
Deferred outflows related to pensions other postemployment benefits	487,910	283,983	249,117	1,021,010	113,931
Total deferred outflows of resources	<u>487,910</u>	<u>292,947</u>	<u>249,117</u>	<u>1,029,974</u>	<u>113,931</u>
LIABILITIES					
Current liabilities:					
Accounts payable	1,127,706	1,466,400	161,266	2,755,372	152,782
Accrued payroll and employee benefits	-	-	54,377	54,377	43,817
Accrued liabilities	6,432	204,856	-	211,288	-
Construction contracts payable	236,177	413,422	14,865	664,464	-
Sales taxes payable	264,211	-	-	264,211	-
Deposits held in custody for others	3,220,061	-	10,000	3,230,061	-
Claims payable	-	-	-	-	567,488
Due to other funds	358	329	57	744	146,043
Unearned revenues	218,718	-	-	218,718	-
Compensated absences	267,310	168,633	152,414	588,357	73,234
Revenue bonds	37,047	1,016,680	-	1,053,727	-
Total current liabilities	<u>5,378,020</u>	<u>3,270,320</u>	<u>392,979</u>	<u>9,041,319</u>	<u>983,364</u>
Noncurrent liabilities:					
Claims payable	-	-	-	-	367,544
Compensated absences	66,827	42,157	38,104	147,088	18,309
Revenue bonds	55,476	9,762,488	-	9,817,964	-
Net pension and other postemployment benefits liability	3,508,435	2,043,522	1,698,696	7,250,653	844,571
Total noncurrent liabilities	<u>3,630,738</u>	<u>11,848,167</u>	<u>1,736,800</u>	<u>17,215,705</u>	<u>1,230,424</u>
Total liabilities	<u>9,008,758</u>	<u>15,118,487</u>	<u>2,129,779</u>	<u>26,257,024</u>	<u>2,213,788</u>
DEFERRED INFLOWS OF RESOURCES					
Deferred inflows related to pensions and other postemployment benefits	257,107	111,564	99,527	468,198	46,578
Total deferred outflows of resources	<u>257,107</u>	<u>111,564</u>	<u>99,527</u>	<u>468,198</u>	<u>46,578</u>
NET POSITION					
Net investment in capital assets	231,187,658	212,858,770	1,838,943	445,885,371	284,259
Restricted for:					
Debt service	39,073	1,158,221	-	1,197,294	-
Capital projects	11,625,787	8,276,247	-	19,902,034	-
Unrestricted	41,470,734	12,672,512	10,939,002	65,082,248	4,829,810
Total net position	<u>\$ 284,323,252</u>	<u>\$ 234,965,750</u>	<u>\$ 12,777,945</u>	<u>532,066,947</u>	<u>\$ 5,114,069</u>
Adjustment to report the cumulative internal balance for the net effect of the activity between the internal service funds and the enterprise funds over time				662,879	
Net position of business-type activities (page 22)				<u>\$ 532,729,826</u>	

The notes to the financial statements are an integral part of this statement.

CITY OF AVONDALE, ARIZONA
STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN FUND NET POSITION
PROPRIETARY FUNDS
YEAR ENDED JUNE 30, 2018

	Business-type Activities - Enterprise Funds				Governmental Activities
	Water	Wastewater	Sanitation	Total	Internal Service Funds
Operating revenues:					
Charges for services	\$ 15,451,443	\$ 9,731,664	\$ 5,247,119	\$ 30,430,226	\$ 5,453,453
Miscellaneous	405,200	405	51,111	456,716	15,218
Total operating revenues	<u>15,856,643</u>	<u>9,732,069</u>	<u>5,298,230</u>	<u>30,886,942</u>	<u>5,468,671</u>
Operating expenses:					
Salaries, wages and benefits	2,838,318	1,522,436	1,708,158	6,068,912	859,558
Contractual services, materials and supplies	6,446,548	3,068,005	2,570,715	12,085,268	2,250,451
Insurance claims and expenses	-	-	-	-	1,595,952
Depreciation and amortization	7,304,816	6,772,502	575,207	14,652,525	123,002
Total operating expenses	<u>16,589,682</u>	<u>11,362,943</u>	<u>4,854,080</u>	<u>32,806,705</u>	<u>4,828,963</u>
Operating income (loss)	<u>(733,039)</u>	<u>(1,630,874)</u>	<u>444,150</u>	<u>(1,919,763)</u>	<u>639,708</u>
Nonoperating revenues (expenses):					
Gain on sale of capital assets	77,042	3,800	43,583	124,425	-
Investment income					
Interest Income	534,761	216,376	123,991	875,128	55,675
Net decrease in fair value of investments	(221,612)	(102,947)	(49,947)	(374,506)	(22,916)
Interest expense	(625)	(266,603)	-	(267,228)	-
Total non-operating revenues (expenses)	<u>389,566</u>	<u>(149,374)</u>	<u>117,627</u>	<u>357,819</u>	<u>32,759</u>
Income (loss) before development fees, capital contributions, and transfers	<u>(343,473)</u>	<u>(1,780,248)</u>	<u>561,777</u>	<u>(1,561,944)</u>	<u>672,467</u>
Capital contributions	259,035	-	-	259,035	-
Development fees	1,555,843	2,428,044	-	3,983,887	-
Transfers in	725,672	189,209	-	914,881	-
Transfers out	-	(764,881)	-	(764,881)	(9,730)
Change in net position	<u>2,197,077</u>	<u>72,124</u>	<u>561,777</u>	<u>2,830,978</u>	<u>662,737</u>
Net position as restated, July 1, 2017	<u>282,126,175</u>	<u>234,893,626</u>	<u>12,216,168</u>	<u>529,235,969</u>	<u>4,451,332</u>
Net position, June 30, 2018	<u>\$ 284,323,252</u>	<u>\$ 234,965,750</u>	<u>\$ 12,777,945</u>		<u>\$ 5,114,069</u>
Adjustment for the net effect of the current year activity between the internal service funds and the enterprise funds				<u>82,545</u>	
Change in net position of business-type activities (pages 23-24)				<u>\$ 2,913,523</u>	

The notes to the financial statements are an integral part of this statement.

CITY OF AVONDALE, ARIZONA
STATEMENT OF CASH FLOWS
PROPRIETARY FUNDS
YEAR ENDED JUNE 30, 2018

	Business-type Activities - Enterprise Funds				Governmental Activities
	Water	Wastewater	Sanitation	Total	Internal Service Funds
Cash flows from operating activities:					
Receipts from customers	\$ 15,525,863	\$ 9,609,378	\$ 5,241,800	\$ 30,377,041	\$ 5,453,264
Payments to suppliers for goods and services	(7,142,469)	(2,565,495)	(2,517,034)	(12,224,998)	(3,141,181)
Payments to employees for services	(2,898,465)	(1,576,120)	(1,739,773)	(6,214,358)	(848,319)
Miscellaneous	405,200	405	51,111	456,716	15,218
Net cash provided (used) by operating activities	5,890,129	5,468,168	1,036,104	12,394,401	1,478,982
Cash flows from noncapital financing activities:					
Interfund borrowing	59	(30)	57	86	103,625
Transfers in	725,672	189,209	-	914,881	-
Transfers out	-	(764,881)	-	(764,881)	(9,730)
Net cash provided (used) for noncapital financing activities	725,731	(575,702)	57	150,086	93,895
Cash flows from capital and related financing activities:					
Acquisition and construction of capital assets	(5,660,968)	(10,688,895)	(542,067)	(16,891,930)	(141,382)
Principal payments on capital debt	(32,571)	(933,732)	-	(966,303)	-
Interest payments on capital debt	(4,602)	(393,774)	-	(398,376)	-
Development fees received	1,555,843	2,428,044	-	3,983,887	-
Proceeds from sale of capital assets	77,042	3,800	43,583	124,425	-
Net cash provided (used) for capital and related financing activities	(4,065,256)	(9,584,557)	(498,484)	(14,148,297)	(141,382)
Cash flows from investing activities:					
Purchase of investments	(12,815,411)	(8,246,332)	(3,379,106)	(24,440,849)	(1,447,791)
Proceeds from sales and maturities of investments	4,998,584	1,391,013	901,166	7,290,763	450,583
Investment income	473,215	177,778	107,977	758,970	48,779
Net cash provided (used) by investing activities	(7,343,612)	(6,677,541)	(2,369,963)	(16,391,116)	(948,429)
Net increase (decrease) in cash and cash equivalents	(4,793,008)	(11,369,632)	(1,832,286)	(17,994,926)	483,066
Cash and cash equivalents, July 1, 2017	22,078,714	22,325,871	7,286,659	51,691,244	3,271,238
Cash and cash equivalents, June 30, 2018	<u>\$ 17,285,706</u>	<u>\$ 10,956,239</u>	<u>\$ 5,454,373</u>	<u>\$ 33,696,318</u>	<u>\$ 3,754,304</u>
Reconciliation of operating income (loss) to net cash provided (used) by operating activities:					
Operating income (loss)	\$ (733,039)	\$ (1,630,874)	\$ 444,150	\$ (1,919,763)	\$ 639,708
Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities					
Depreciation	7,304,816	6,772,502	575,207	14,652,525	123,002
Change in assets, deferred outflows of resources, liabilities, and deferred inflows of resources:					
(Increase) decrease in accounts receivable	(152,838)	(122,286)	(5,319)	(280,443)	(189)
(Increase) decrease in inventories	(776,911)	(12,444)	7,981	(781,374)	(29,237)
(Increase) decrease in prepaid items	(1,888)	2,886	929	1,927	639,839
(Increase) decrease in deferred outflows of resources related to pensions and other postemployment benefits	215,683	172,123	124,165	511,971	70,346
Increase (decrease) in accounts payable	52,560	495,963	44,771	593,294	(82,465)
Increase (decrease) in accrued payroll and employee benefits	-	(3,178)	46,335	43,157	22,913
Increase (decrease) in accrued liabilities	(486)	16,105	-	15,619	-
Increase (decrease) in sales taxes payable	30,804	-	-	30,804	-
Increase (decrease) in deposits held in custody for others	231,401	-	-	231,401	-
Increase (decrease) in unearned revenue	(4,143)	-	-	(4,143)	-
Increase (decrease) in compensated absences	23,076	(11,439)	(30,206)	(18,569)	9,244
Increase (decrease) in claims payable	-	-	-	-	177,085
Increase (decrease) in pension and other postemployment benefits liability	(103,327)	(73,000)	(59,424)	(235,751)	(31,550)
Increase (decrease) in deferred inflows of resources related to pensions and other postemployment benefits	(195,579)	(138,190)	(112,485)	(446,254)	(59,714)
Net cash provided (used) by operating activities	<u>\$ 5,890,129</u>	<u>\$ 5,468,168</u>	<u>\$ 1,036,104</u>	<u>\$ 12,394,401</u>	<u>\$ 1,478,982</u>

Continued

The notes to the financial statements are an integral part of this statement.

CITY OF AVONDALE, ARIZONA
STATEMENT OF CASH FLOWS
PROPRIETARY FUNDS
YEAR ENDED JUNE 30, 2018

	Business-type Activities - Enterprise Funds				Governmental Activities
	Water	Wastewater	Sanitation	Total	Internal Service Funds
<i>Continuation</i>					
Reconciliation of cash and cash equivalents at June 30, 2018 to statement of net position:					
Cash and cash equivalents	\$ 14,026,572	\$ 9,798,018	\$ 5,454,373	\$ 29,278,963	\$ 3,734,304
Restricted:					
Customer deposits	3,220,061	-	-	3,220,061	-
Cash with fiscal agents	39,073	1,158,221	-	1,197,294	-
Cash with third-party administrator	-	-	-	-	20,000
Total cash and cash equivalents	<u>\$ 17,285,706</u>	<u>\$ 10,956,239</u>	<u>\$ 5,454,373</u>	<u>\$ 33,696,318</u>	<u>\$ 3,754,304</u>
Noncash capital, financing and investing activities:					
Capital contributions	\$ 259,035	\$ -	\$ -	\$ 259,035	\$ -
Amortization of bond premiums, discounts, and deferred charge on refunding	3,162	110,896	-	114,058	-
Amortization of investment discount, net	(28,707)	(10,157)	(5,795)	(44,659)	(2,801)
Decrease in fair value of investments	(221,612)	(102,947)	(49,947)	(374,506)	(22,916)

The notes to the financial statements are an integral part of this statement.



FINANCIAL SECTION

Fiduciary Fund Financial Statements

Volunteer Fire Fighters Relief and Pension Fund accounts for the City's single-employer defined contribution plan that provides pension benefits to volunteer fire fighters not covered under the Public Safety Personnel Retirement System.

CITY OF AVONDALE, ARIZONA
STATEMENT OF FIDUCIARY NET POSITION
VOLUNTEER FIRE FIGHTERS RELIEF AND PENSION FUND
JUNE 30, 2018

	Volunteer Fire Fighters Relief and Pension Fund
ASSETS	
Cash and cash equivalents	\$ 225,198
Total assets	<u>225,198</u>
LIABILITIES	
Accounts payable	<u>-</u>
NET POSITION	
Net position restricted for pensions	225,198
Total net position	<u><u>\$ 225,198</u></u>

The notes to the financial statements are an integral part of this statement.

CITY OF AVONDALE, ARIZONA
STATEMENT OF CHANGES IN FIDUCIARY NET POSITION
VOLUNTEER FIRE FIGHTERS RELIEF AND PENSION FUND
YEAR ENDED JUNE 30, 2018

	Volunteer Fire Fighters Relief and Pension Fund
ADDITIONS	
Investment income	\$ 2,558
Total additions	<u>2,558</u>
DEDUCTIONS	
Benefits paid to plan members	<u>4,800</u>
Total deductions	<u>4,800</u>
Change in net position	(2,242)
Net position, July 1, 2017	<u>227,440</u>
Net position, June 30, 2018	<u><u>\$ 225,198</u></u>

The notes to the financial statements are an integral part of this statement.



FINANCIAL SECTION

Notes to the Financial Statements

The notes to the financial statements include a summary of significant accounting policies and other disclosures considered essential to the fair presentation of the accompanying financial statements.

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CITY OF AVONDALE, ARIZONA
NOTES TO FINANCIAL STATEMENTS
JUNE 30, 2018

The City of Avondale, Arizona (the City) was incorporated in 1946 under the provisions of the Constitution of Arizona and Arizona Revised Statutes (A.R.S.). Avondale operates under the Council-Manager form of government in accordance with its Charter. Legislative authority is vested in a seven-member City Council consisting of a mayor and six councilmembers elected at large for a term of four years. The City Council appoints the City Manager and such other officers deemed necessary and proper for the orderly administration of the City's affairs. The City provides a full range of municipal services including police and fire protection, planning and development, parks and recreation, library, transportation, certain human services, and general administration. The City also owns and operates an enterprise whose activities include water, wastewater and sanitation services.

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The accompanying financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America applicable to governmental units adopted by the Governmental Accounting Standards Board (GASB). The GASB is the accepted standard-setting body for establishing governmental accounting and financial reporting principles. The City's significant accounting policies are described below.

For the year ended June 30, 2018, the City implemented the provisions of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*, as amended by GASB Statement No. 85, Omnibus 2017. GASB Statement No. 75 established standards for measuring and recognizing net assets or liabilities, deferred outflows of resources, deferred inflows of resources, and expenses/expenditures related to other postemployment benefits (OPEB) provided through defined benefit OPEB plans. In addition, Statement No. 75 requires disclosure of information related to OPEB. The City also implemented GASB Statement No. 89, *Accounting for Interest Cost Incurred before the End of a Construction Period*, that established new accounting requirements for interest cost incurred before the end of a construction period and superseded and amended previous accounting guidance on the capitalization of interest cost.

A. Reporting Entity

The accompanying financial statements present the activities of the City (the primary government) and its blended component unit, the City of Avondale Municipal Development Corporation, collectively referred to as "the financial reporting entity". The component unit referred to below has been included in the City's reporting entity because of the significance of its operational and financial relationship with the City. The City has no discretely presented component units.

City of Avondale Municipal Development Corporation (MDC) is a nonprofit corporation that is organized under the laws of the State of Arizona to assist the City with the financing, acquisition, and construction of municipal projects and facilities. The MDC is governed by a board of directors which is responsible for approving the MDC's bonds. The City Council appoints MDC board members and also approves MDC bond sales. Although it is legally separate from the City, the MDC is reported as if it is part of the primary government because its sole purpose is to finance the acquisition and construction of municipal projects and facilities for the City. The MDC does not issue separate financial statements, but it does file an annual report with the Arizona Corporation Commission. Copies of the report are available from the City's Finance and Budget Department.

CITY OF AVONDALE, ARIZONA
NOTES TO FINANCIAL STATEMENTS
JUNE 30, 2018

B. Government-wide and Fund Financial Statements

The basic financial statements include both government-wide and fund financial statements. The government-wide financial statements focus on the City as a whole, while the fund financial statements focus on major funds. Each presentation provides valuable information that can be analyzed and compared between years and between governments to enhance the information's usefulness.

Government-wide Financial Statements: The government-wide financial statements (the Statement of Net Position and the Statement of Activities), which exclude fiduciary funds, provide information about the City as a whole. Governmental activities, which normally are supported by taxes and intergovernmental revenues, are reported separately from business-type activities, which rely to a significant extent on fees and charges for services. The government-wide focus emphasizes the sustainability of the City and aggregate change in financial position resulting from the activities of the fiscal period.

The Statement of Net Position presents all financial and capital resources of the City. It is presented in a format that displays assets plus deferred outflows of resources, less liabilities and deferred inflows of resources, equals net position, with assets and liabilities presented in order of their relative liquidity. Net position is presented in three components—net investment in capital assets, restricted (distinguishing between major categories of restrictions), and unrestricted. Net investment in capital assets consists of capital assets, net of accumulated depreciation and amortization, reduced by outstanding balances of bonds, capital leases, notes or other borrowings that are attributable to the acquisition, construction, or improvement of those assets. Deferred outflows of resources and deferred inflows of resources related to the acquisition, construction, or improvement of those assets or related debt also are included in net investment in capital assets. Restricted net position consists of restricted assets with constraints placed on their use externally either by creditors (such as bond covenants), grantors, contributors, laws and regulations of other governments, or imposed by law through constitutional provisions or enabling legislation, reduced by liabilities and deferred inflows of resources related to those assets. Unrestricted net position equals that portion of assets plus deferred outflows of resources, less liabilities and deferred inflows of resources, which are not otherwise classified as part of net investment in capital assets or restricted net position.

The Statement of Activities presents a comparison between direct expenses and program revenues for each function of the City's governmental activities and segment of its business-type activities. Direct expenses are those that are specifically associated with a program or function and, therefore, are clearly identifiable to a particular function. Interest on long-term debt is not allocated to various functions in the governmental activities so it is reported separately. Program revenues include 1) charges to customers or users who purchase, use or directly benefit from the goods, services or privileges provided by a particular function or segment, and 2) grants and contributions that are restricted to meeting the operational or capital requirements of a particular function or segment. Revenues that are not classified as program revenues, including internally dedicated resources and all taxes the City levies or imposes, are reported as general revenues. General revenues support the net costs of the functions and segments not covered by program revenues.

Generally, the effect of interfund activity has been eliminated from the government-wide financial statements to minimize the double-counting of internal activities. Net interfund activity and balances between governmental activities and business-type activities are presented in the government-wide financial statements. Certain charges for interfund services provided and used, such as charges between the Enterprise Fund utility segments and various functional activities, were not eliminated if the charges approximated their exchange values. The General Fund charges administrative service fees to other operating funds to support

CITY OF AVONDALE, ARIZONA
NOTES TO FINANCIAL STATEMENTS
JUNE 30, 2018

general services (e.g., purchasing, accounting and administration) used by the other operating funds. These administrative fees were not eliminated from the government-wide or fund financial statements.

Fund Financial Statements: The fund financial statements provide information about the City's funds, including fiduciary funds and blended component units. Separate statements are presented for the governmental, proprietary, and fiduciary fund categories. The emphasis on fund financial statements is on major governmental and enterprise funds, each displayed in a separate column. All nonmajor governmental funds, as well as the internal service funds, are summarized into a single column on the fund financial statements and detailed in combining statements included as supplementary information after the basic financial statements. Fiduciary funds are aggregated and reported by fund type.

C. Measurement Focus, Basis of Accounting, and Financial Statement Presentation

Government-wide Financial Statements: The government-wide financial statements are presented using the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded when earned, and expenses are recorded when liabilities are incurred, regardless of when the related cash flows occur. Property taxes are recognized as revenue in the year for which they are levied. Grants and similar items are recognized as revenue as soon as all eligibility requirements the provider imposed have been met.

Governmental Fund Financial Statements: The governmental fund financial statements are presented using the current financial resources measurement focus and the modified accrual basis of accounting. Under this method, revenues are recognized when they become both measurable and available to finance the City's operations. The City considers all revenues reported in the governmental funds to be available if the revenues are collected within 60 days after year-end. The City's principal revenue sources that are susceptible to accrual are sales taxes, property taxes, intergovernmental, and investment income.

City sales taxes collected and held by merchants at year-end on behalf of the City are recognized as revenue. State-shared revenues, including sales and income taxes, highway user and auto lieu taxes, and lottery distributions for transportation assistance, which are collected and held by the State at year-end on behalf of the City, are also recognized as revenue. Licenses and permits, charges for services, fines, forfeitures and penalties, contributions, and miscellaneous revenues are recorded as revenue when received because they are generally not available until actually received. Changes in the fair value of investments are recognized as part of revenue at year-end.

In applying the susceptible to accrual concept to intergovernmental revenues and receivables, revenues are recognized when all the applicable eligibility requirements, including time requirements, have been met. Resources received before all eligibility requirements are met are reported as deferred inflows of resources. Revenue for reimbursement grants is recognized as revenue when qualifying expenditures have been incurred and all other grant requirements have been met, provided that the available criterion is met.

Expenditures are recorded when the related fund liability is incurred except for principal and interest on long-term debt, claims and judgments, and compensated absences, which are recognized as expenditures to the extent they are due and payable. General capital asset acquisitions are reported as expenditures in governmental funds. Long-term debt issuances and proceeds and acquisitions under capital lease agreements are reported as other financing sources.

The governmental fund financial statements are presented on a different measurement focus and basis of accounting than the government-wide financial statements. Therefore, a reconciliation is presented on the

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page following each governmental fund financial statement that briefly explains the adjustments necessary to transform the governmental fund financial statements into the governmental activities column of the government-wide financial statements.

Proprietary Fund Financial Statements: The financial statements of the proprietary funds are reported using the economic resources measurement focus and accrual basis of accounting, similar to the government-wide financial statements described above.

Proprietary fund revenues and expenses are classified as either operating or nonoperating. Operating revenues and expenses generally result from transactions associated with the fund's principal activity. Accordingly, revenues, such as user charges, in which each party receives and gives up essentially equal values are operating revenues. Other revenues that result from transactions in which the parties do not exchange equal values are considered nonoperating revenues, along with investment earnings and revenues generated from ancillary activities. Operating expenses include the cost of services, administrative expenses, and depreciation on capital assets. Other expenses, such as interest expense, are considered nonoperating expenses.

The internal service funds, which provide services to the other funds of the City, are presented in a single combined column in the proprietary fund financial statements. Because the principal users of the internal service funds are the City's governmental activities, the assets and deferred outflows of resources and liabilities and deferred inflows of resources of the internal service funds are consolidated into the governmental activities column of the government-wide Statement of Net Position. The costs of the internal service funds services are spread to the appropriate function or segment on the government-wide Statement of Activities, and the revenues and expenses within the internal service funds are eliminated from the government-wide financial statements to avoid any doubling-up effect of these revenues and expenses.

Fiduciary Fund Financial Statements: The City's fiduciary fund, a pension trust fund, is presented in the fund financial statements. The fund accounts for resources that are required to be held in trust for members of the City's Volunteer Fire Fighters Relief and Pension Fund. The City excludes this fund from the government-wide financial statements because pension trust assets are not available to support city programs. The fiduciary financial statements reporting focus is on net position and changes in net position and employ accounting principles similar to proprietary funds.

D. Fund Accounting

The financial transactions of the City are recorded in individual funds. Each fund is accounted for by providing a separate set of self-balancing accounts that comprise its assets, deferred outflows of resources, liabilities, deferred inflows of resources, fund balance/net position, revenues, and expenditures/expenses. The various funds are reported by generic classification within the fund financial statements. GASB Statement No. 34 sets forth minimum criteria for the determination of major funds. The City has elected to present some additional governmental funds as major funds because of community focus. The nonmajor funds are combined in a column in the fund financial statements and detailed in the combining fund financial section.

The City reports the following major governmental funds:

The *General Fund* is the City's primary operating fund. It accounts for all financial resources of the general government, except those required to be accounted for in another fund.

CITY OF AVONDALE, ARIZONA
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The *Dedicated Sales Tax Revenue Fund*, a special revenue fund, accounts for the voter-approved 0.5-cent dedicated sales tax revenues. The use of these revenues is restricted to maintaining, improving, renovating, and constructing water and sewer systems, streets, and transportation projects and services that serve city neighborhoods. The tax was approved by the voters and became effective in July 2001. In September 2008, voters approved the expanded use of tax revenue to include transportation projects and services.

The *Public Safety Sales Tax Revenue Fund*, a special revenue fund, accounts for the voter-approved 0.5-cent public safety sales tax revenues. The use of these revenues is restricted to providing increased public safety services for city neighborhoods. The tax was approved by the voters and became effective in January 2004.

The *Development Fees Fund*, a capital projects fund, accounts for developer fees collected to finance growth-related development and construction, bond proceeds, sales tax and grant revenues, and fund transfers that are restricted, committed, or assigned to capital development and maintenance.

The City reports the following major proprietary funds:

The *Water Fund* accounts for the operation, maintenance, and financing of the City's water system, which provides for the production, treatment, storage, and distribution of potable water supplies to city customers.

The *Wastewater Fund* accounts for the operation, maintenance, and financing of the City's wastewater system, which ensures the effective operation of the wastewater collection system and the water reclamation facility in compliance with applicable laws and regulations.

The *Sanitation Fund* accounts for the operation, maintenance, and financing of the City's sanitation system, which provides solid waste collection, recycling, and disposal services to city customers.

Additionally, the City reports the following fund types:

The internal service funds account for the operations that provide services to other city departments on a cost-reimbursement basis. The services include self-insurance, printing services, and fleet management.

The Volunteer Fire Fighters Relief and Pension Fund accounts for pension benefits of volunteer fire fighters not covered under the Public Safety Personnel Retirement System.

E. Budgets and Budgetary Accounting

On June 3, 1980, Arizona voters approved a constitutional amendment prescribing an expenditure limitation for all local governments. This constitutional amendment was enacted to control expenditures and limit future increases in spending adjustments for inflation and population growth. This limitation restricts the growth of expenditures to a percentage determined by population and inflation, with certain expenditures excluded from the limitation. Prior to April 1st of each year, the State Economic Estimates Commission determines and publishes the expenditure limitation for the following fiscal year for each governmental unit. Fiscal year 1979-80 is the base year for calculations.

The constitutional amendment includes provisions that require voter approval to establish an alternative expenditure limitation for cities and towns. The alternative expenditure limitation is valid for a period of two to seven years. On August 30, 2016, city voters approved an alternative expenditures limitation (Home Rule Option), the effect of which, allows total budgeted expenditures of the City's adopted budget to become the expenditure limitation for that year on a total budget basis. City voters have approved the Home Rule Option every four years since 1981. This alternative expenditure limitation is effective until June 30, 2021.

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The following provides a brief budgetary overview of the City.

1. The City's fiscal year is established by state law and runs from July 1st through June 30th of each year.
2. Prior to June 1, the City Manager submits to the City Council a proposed operating budget for the fiscal year commencing the following July 1. The operating budget includes proposed expenditures and the means of financing them. Public hearings are conducted by the City to obtain citizen comments.
3. On or before the first Monday in August, the City Council legally adopts the budget and allocates spending authority to City funds through passage of an ordinance for the ensuing year. Budgets for all funds are adopted in accordance with the requirements of the Arizona Constitution, Arizona Revised Statutes, and City Charter. These appropriations lapse at the end of the fiscal year.
4. The City Manager is authorized to transfer any unencumbered appropriations balance, or portion thereof, between general classifications of expenditures within a department or fund or between departments within the same function. At the request of the City Manager, the City Council may at any time transfer any unencumbered appropriation balance, or portion thereof, between general classifications of expenditures from one department or fund to another.
5. The legal level of expenditure control is at the function level for the General Fund and at the fund level for all other funds. During the year ended June 30, 2018, the original budget was amended in a legally permissible manner. Budget and actual comparisons are provided in this report for each of the governmental funds.

F. Cash and Investments

For the statement of cash flows, the City's cash and cash equivalents are considered to be cash on hand, demand deposits, restricted cash with fiscal agents, investments in the State Treasurer's Local Government Investment Pool, and only those highly liquid investments with a maturity of 3 months or less when purchased.

Investment income includes interest and dividend earnings and changes in fair value of applicable investments during the fiscal year. The City maintains pooled cash and investments, except for certain non-pooled investments held by the General Fund, Dedicated Sales Tax Revenue Fund, Public Safety Sales Tax Revenue Fund, Water Fund, Highway User Revenue Fund, Vehicle Replacement Fund, Water Fund, Wastewater Fund, Sanitation Fund, and Self-Insurance Fund. All pooled investments are considered cash equivalents. Interest income from pooled cash and investments is allocated to the individual funds based on the fund's month-end cash balance in relation to the total pooled investments. Each fund's equity in the pooled cash and investments is tracked on an ongoing basis. In the event that a certain fund overdraws its share of pooled cash, the overdraft is reported as a due to the General Fund at year-end. Investment income from non-pooled investments, which includes changes in fair value of investments during the fiscal year, is recorded based on the specific investments held by the fund.

Investments are stated at fair value.

G. Restricted Assets

The City has executed trust indentures for all bond series issued that require all cash and investments of each bond series to be held on deposit by fiscal agents. These assets are restricted to retirement of principal balances, payment of interest, trustee fees associated with the bond issues, and to finance various capital

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projects. Accordingly, these assets are classified as restricted on the Balance Sheet and Statement of Net Position

H. Inventories

Supplies and parts inventories are accounted for in the governmental fund and government-wide financial statements using the consumption method. These inventories consist of expendable supplies held for consumption and are recorded as expenditures/expenses when consumed. Amounts on hand at year-end are shown as assets on the Balance Sheet and Statement of Net Position. In the governmental fund financial statements, inventories are shown as nonspendable fund balance to indicate that they do not constitute "available spendable resources".

Water Fund inventories include long-term storage water credits credited to the City's long-term storage account by the Arizona Department of Water Resources. Effluent water credits are stated at cost based on the City's cost of treating the wastewater and recharging the resulting effluent water into the Phoenix Active Management Area. All other water credits are valued using the applicable Central Arizona Project water rate in effect at the time the water credit was credited to the City's long-term storage account.

Inventories are valued using the first-in, first-out inventory flow assumption.

I. Prepaid Items

Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaid items in both the governmental fund and government-wide financial statements. Prepaid items are recorded as expenditures/expenses when consumed. In the governmental fund financial statements, prepaid items are shown as nonspendable fund balance to indicate that they do not constitute "available spendable resources".

J. Receivables and Payables

Activity between funds that are representative of lending/borrowing arrangements outstanding at fiscal year-end are reported as either "due to/from other funds" (i.e., the current portion of interfund loans) or "advances to/from other funds" (i.e., the noncurrent portion of interfund loans). All trade and other receivables are reported net of an allowance for uncollectible amounts.

K. Capital Assets

Capital assets, including public domain infrastructure assets such as roads, bridges, curbs and gutters, streets and sidewalks, water and sewer systems, lighting systems, and other assets that are immovable and of value only to the City, and intangible assets such as water rights, which lack physical substance, are defined as assets with an initial, individual cost of \$5,000 or more and an estimated useful life more than one year. The City values these assets at cost or estimated historical cost if purchased or constructed; acquisition value for donated capital assets, donated works of art or similar items, and capital assets received in a service concession arrangement; and estimated fair market value at the grant or allotment date for water rights. The City's water rights have indefinite useful lives and, therefore, the City does not amortize these intangible assets. Capital assets are reported in the applicable governmental or business-types activities column of the government-wide financial statements and the proprietary fund financial statements. No capital assets, depreciation, or amortization are presented in the governmental fund financial statements.

The cost of normal maintenance and repairs that do not significantly extend the useful lives of assets or increase their capacity are not capitalized. Major improvements are capitalized and depreciated over the remaining useful life of the improved capital assets. Major outlays for capital assets and improvements are capitalized as projects are constructed.

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The City has chosen not to apply the modified approach to any infrastructure networks, systems, or subsystems. Capital assets are depreciated or amortized over their estimated useful lives using the straight-line method. The estimated useful lives follow:

	<u>Years</u>
Intangible assets	30-40
Buildings and improvements	40
Improvements other than buildings	20
Water, sewer, and storm drain systems improvements	50
Street systems	20-40
Park facilities and streetscape	20
Artwork	20
Furniture	7
Machinery and equipment	3-15

L. Deferred Outflows and Inflows of Resources

The Statement of Net Position and Balance Sheet include separate sections for deferred outflows of resources and deferred inflows of resources. Deferred outflows of resources represent a consumption of net position that applies to future periods that will be recognized as an expenditure or expense in future periods. Deferred inflows of resources represent the acquisition of net position or fund balance that applies to future periods that will be recognized as revenue and amortized in future periods.

M. Compensated Absences

Compensated absences payable consist of vacation leave and a calculated amount of sick leave employees earned based on services already rendered. Vacation benefits vest with the employees when it is earned. The amount of sick leave benefits that vest with employees depends on the employees' number of years of continuous service and accumulated sick leave hours upon terminating employment. Regular full-time employees may accumulate up to 280 hours of vacation and Fire Battalion Chiefs assigned to a 24-hour shift schedule may accumulate up to 392 hours of vacation on a calendar year basis. Employees forfeit vacation hours in excess of these limits if not used by December 31st of each calendar year. All regular full-time employees may accumulate an unlimited number of sick leave hours.

Upon resignation, the City compensates employees for 33.3% of their accumulated sick leave at the employees' current hourly rate. Upon retirement, the City compensates employees as follows:

- Employees with 10 years of continuous service with the City will receive 100% of accrued sick leave up to 250 hours at the employees' current hourly rate, or 33.3% of the total balance of accrued sick leave, whichever is greater.
- Employees with 15 years of continuous service with the City will receive 100% of accrued sick leave up to 375 hours at the employees' current hourly rate, or 33.3% of the total balance of accrued sick leave, whichever is greater.
- Employees with 20 years of continuous service with the City will receive 100% of accrued sick leave up to 500 hours at the employees' current hourly rate, or 33.3% of the total balance of accrued sick leave, whichever is greater.

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Compensated absences payable is accrued as a liability in the government-wide and proprietary fund financial statements. Liabilities for these amounts are reported in the governmental fund financial statements only if they have matured (e.g., as a result of employee resignations and retirements by fiscal year-end).

N. Long-term Obligations

In the fund financial statements, governmental fund types recognize bond issuance proceeds, bond discounts and premiums, and bond issuance costs during the current period. The face amount of the debt issued is reported as other financing sources. Discounts on debt issuances are reported as other financing uses, while premiums received on debt issuances are reported as other financing sources. Bond issuance costs, whether or not withheld from the actual debt proceeds received, are reported as debt service expenditures.

In the government-wide and proprietary fund financial statements, long-term debt and other obligations are reported as liabilities on the Statement of Net Position. Bond discounts and premiums and deferred charges or credits on debt refunding are amortized over the life of the bonds using the straight-line method.

O. Postemployment Benefits

For purposes of measuring the net pension and other postemployment benefits (OPEB) assets and liabilities, deferred outflows of resources and deferred inflows of resources related to pensions and OPEB, and pension and OPEB expense, information about the plans' fiduciary net position and additions to/deductions from the plans' fiduciary net position have been determined on the same basis as they are reported by the plan. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

P. Transactions between Funds

Transactions that would be treated as revenue or expenditures/expenses if they involved organizations external to the governmental unit are accounted for as revenue or expenditures/expenses in the funds involved. Transactions which constitute reimbursements of a fund for expenditures/expenses initially made from that fund that are properly applicable to another fund are recorded as expenditures/expenses in the reimbursing fund and as reductions of the expenditures/expense in the fund that is reimbursed.

Cash flows from one fund to another without a requirement for repayment are reported as interfund transfers. Interfund transfers between governmental activities and business-type activities are eliminated in the Statement of Activities. Interfund transfers in the fund financial statements are reported as "other financing sources (uses)" in governmental funds and after nonoperating revenues and expenses in proprietary funds.

Q. Fund Balance Classifications

The governmental funds' fund balances are reported within classifications based on a hierarchy of constraints placed on the use of those resources. The classifications are based on the relative strength of the constraints that control how the specific amounts can be spent. The classifications are nonspendable, restricted, and unrestricted, which includes committed, assigned, and unassigned fund balance classifications.

Nonspendable fund balances include amounts that cannot be spent because they are either not in spendable form, such as inventories, or are legally or contractually required to be maintained intact.

Restricted fund balances are those that have externally imposed restrictions on their usage by creditors (such as through debt covenants), grantors, contributors, or laws and regulations.

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Committed fund balances are self-imposed limitations that the City Council approved, which is the highest level of decision-making authority within the City. Only the City Council can remove or change the constraints placed on the committed fund balances. Committed fund balances also include resources that have been specifically committed to satisfy contractual requirements.

Assigned fund balances are spendable resources constrained by the City's intent to be used for specific purposes, but that are neither restricted nor committed.

Unassigned fund balance is the residual classification for the General Fund and includes all spendable resources not reported in other classifications. Also, deficits in fund balances of other governmental funds are reported as unassigned.

On June 20, 2011, the City Council approved a resolution adopting a formal City fund balance policy and stabilization arrangement. The significant components of the policy and arrangement follow:

The City Council delegated authority to the City Manager to assign fund balances for specific purposes. Any fund balance assignments must be reported to the City Council at their next regular meeting, and the City Council has the authority to remove or change the assignments by a simple majority vote.

The City Council established a two-tier fiscal stabilization arrangement as committed fund balance in the General Fund equal to 35 percent (35%) of budgeted General Fund expenditures and transfers out of the prior fiscal year in order to provide a comfortable margin of safety against natural disasters, urgent events, revenue shortfalls, and budget deficits. The two tiers include an emergency reserve of 25 percent (25%) and a rainy day reserve of 10 percent (10%).

The stabilization reserves shall be used only if:

- The City has exhausted all efforts to fund the natural disaster, urgent event, revenue shortfall, or budget deficit, as defined below, and there are no reasonable budget adjustments available to continue to provide essential services to the public.
- The City Manager, or his/her designee, is able to demonstrate the significance of the aforementioned events or conditions. This communication must be provided to the City Council in writing.

The City Council may approve the spending of the stabilization reserves by a simple majority vote.

Emergency Reserve

The emergency reserve shall be used only if the City directly experiences a natural disaster or urgent event that jeopardizes public safety, the federal government and/or the State of Arizona formally declares a disaster or emergency, and there are no reasonable budget adjustments available to continue essential public services. Emergency reserves shall be used only for the following reasons:

- Mitigate damage and expenditures caused by natural disasters.
- Respond to urgent events that jeopardize public safety.
- Provide and maintain essential public services during natural disasters or urgent events.

Rainy Day Reserve

The rainy day reserve shall be used to provide an operating margin of safety against the following revenue shortfalls or budget deficits:

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- Sudden or unexpected decline in ongoing revenues or state-shared revenues that is greater than 10 percent (10%) of General Fund operating revenues of the prior fiscal year.
- Reduction in assessed property valuations, resulting in secondary property tax revenue that falls below the City's general obligation debt service requirements.
- Sudden or unexpected self-insurance loss that is greater than available reserves in the Self-insurance Fund.

If the reserves are spent down below the minimum required reserve levels, the City shall develop and implement a reserve restoration plan to return the reserves to their required balances. The City shall replenish the emergency and rainy day reserves within two (2) fiscal years and five (5) fiscal years following the fiscal year in which the event occurred, respectively. If the depletion of the reserve occurs during an ongoing economic downturn, the City shall replenish the reserves within two (2) or five (5) years of revenue stabilization. The progress of replenishment shall be reported in the City's *Annual Budget & Financial Plan*.

R. Resource Flow Assumptions

When an expenditure/expense is incurred that can be paid from either restricted or unrestricted fund balances/net position, the City will use restricted fund balances/net position first. When disbursing unrestricted fund balances, the City will use committed amounts first, followed by assigned amounts, and lastly unassigned amounts.

S. Use of Estimates

The preparation of financial statements in conformity with generally accepted accounting principles in the United States of America requires management to make estimates and assumptions. These estimates and assumptions affect the reported amount of assets and liabilities, deferred outflows and inflows of resources, disclosure of contingent assets and liabilities at the date of the financial statements, and reported amounts of revenues and expenditures/expenses during the reporting period. Actual results may differ from these estimates.

NOTE 2 – STEWARDSHIP, COMPLIANCE AND ACCOUNTABILITY

Deficit fund balances—At June 30, 2018, the following funds reported fund balance or net position deficits. The fund balance deficit in the Senior Programs Fund is temporary and expected to be eliminated when the grantor reimburses the City during the upcoming year. Fleet management has made incremental changes to the markup on parts and labor rates to begin fully recovering the cost of providing fleet management services to city departments. In fiscal year 2019, city management plans to eliminate the net position deficit by recovering prior years' cumulative fleet management undercharges from user departments. City management anticipates that net position deficit will be completely eliminated over the next couple years.

Fund	Deficit
Senior Programs Fund	\$ 54,602
Fleet Management Fund	654,949

NOTE 3 - CASH AND INVESTMENTS

A.R.S. authorize the City to invest public monies in the State Treasurer's Local Government Investment Pool, the County Treasurer's Investment Pool; obligations issued or guaranteed by the United States or any of the senior debt of its agencies, sponsored agencies, corporations, sponsored corporations, or instrumentalities; specified state and local government bonds, notes, and other evidences of indebtedness; and interest-earning

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investments such as savings accounts, certificates of deposit, and repurchase agreements in eligible depositories.

Cash on Hand

The City maintains several petty cash and change funds to facilitate its operations. Cash on hand totaled \$5,100 at June 30, 2018.

Deposits

Cash in bank—The carrying amount of City's operating account deposits at June 30, 2018, excluding fiduciary fund cash, was \$43,047,752 and the bank balance was \$42,629,603. The difference between the carrying amount and bank balance was due to outstanding checks and deposits, and other reconciling items. The City also held \$1,267,688 of cash deposits in a U.S. Government securities investment account and \$219,600 in certificates of deposit, with maturity dates less than one year, at June 30, 2018. These balances were either covered by the Federal Depository Insurance Corporation (FDIC), National Credit Union Administration (NCUA), or collateralized at 102 percent of deposits not covered by FDIC.

Cash with fiscal agents—At June 30, 2018, the City had restricted cash with fiscal agents of \$9,943,177. Of this balance, \$51,248 was held in reserve funds, \$9,891,929 was held by fiscal agents for the City's July 1, 2018 debt service payments, and \$4,544,940 of unrestricted cash held in escrow under the terms of lease-purchase agreements. Of the cash with fiscal agents totaling \$14,488,117, \$500,000 was covered by the FDIC and \$13,988,117 was uninsured and not collateralized with securities held by the pledging institution or by its trust department or agent. The unrestricted cash is presented as cash and cash equivalents on the financial statements.

Fiduciary fund cash—The carrying amount of fiduciary deposits at June 30, 2018, was \$2,059 and the bank balance was also \$2,059.

Fair Value Measurement and Application for Investments

The City's investments at June 30, 2018, categorized within the fair value hierarchy established by generally accepted accounting principles, were as follows:

	Amount	Fair Value Measurement Using	
		Quoted prices in active markets for identical assets (Level 1)	Significant other observable inputs (Level 2)
Investments by Fair Value Level			
U.S. Agency Securities	\$ 12,591,322	\$ -	\$ 12,591,322
U.S. Agency Mortgage Backed Securities	2,950,935	-	2,950,935
U.S. Treasury Securities	75,221,663	75,221,663	-
Total Investments by Fair Value Level	90,763,920	\$ 75,221,663	\$ 15,542,257
External Investment Pools Measured at Fair Value			
State Treasurer's Investment Pool 7	52,219,121		
Total Investments	<u>\$ 142,983,041</u>		

Investments categorized as Level 1 are valued using prices quoted in active markets for those investments. Investments categorized as Level 2 are valued using institutional bond quotes and evaluations based on various market and industry inputs. Investments in the State Treasurer's Investment Pool 7 are valued at the pool's share price multiplied by the number of shares the City held. The fair value of a participant's position in

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the pool approximates the value of that participant's pool shares. The State Board of Investment provides oversight for the State Treasurer's Investment Pool 7.

During the year, the fair value of non-pooled investments decreased \$694,239. This amount takes into account all changes in fair value (including purchases and sales) that occurred during the year. The unrealized loss on these investments held at June 30, 2018, was \$765,859. The calculation of realized gains and losses on investments is independent of the calculation of the change in fair value of investments. In addition, gains and losses of the current period include unrealized amounts from the prior period.

Investments

At June 30, 2018, credit risk for the City's investments was as follows:

Investment Type	Amount	Maturities		Moody's Investors Service	Standard & Poor's
		Less than 1 Year	1-5 Years		
Federal Farm Credit Banks Funding Corp.	\$ 1,958,430	\$ -	\$ 1,958,430	Aaa	AA+
Federal Home Loan Bank	10,632,892	5,176,771	5,456,121	Aaa	AA+
Federal National Mortgage Association	2,950,935	-	2,950,935	Aaa	AA+
US Treasury Note	75,221,663	8,186,131	67,035,532		
	90,763,920	13,362,902	77,401,018		
Total		<u>\$ 13,362,902</u>	<u>\$ 77,401,018</u>		
State Treasurer's Investment Pool 7					
Primary government	51,995,982			Unrated	Unrated
Fiduciary activities	223,139			Unrated	Unrated
Total	52,219,121				
Total investments	<u>\$ 142,983,041</u>				

Custodial Credit Risk

In the case of deposits, this is the risk that in the event of a bank failure, the City's deposits may not be returned to it. For an investment, this is the risk that, in the event of the failure of the counterparty, the City will not be able to recover the value of its investments or collateral securities that are in the possession of an outside party. The City does not have a formal deposit or investment policy for custodial credit risk.

Deposits—At June 30, 2018, \$13,988,117 of the City's bank balance of \$58,607,067 was exposed to custodial risk because it was uninsured and not collateralized with securities held by the pledging financial institution's trust department or agent.

Investments—At June 30, 2018, investments consisted of \$90,763,920 invested in obligations issued or guaranteed by the U.S. Government and \$52,219,121 invested in the State Treasurer's Investment Pool 7, which is not subject to custodial credit risk.

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Concentration of Credit Risk

Concentration of credit risk is the risk of loss attributable to the magnitude of deposits or investments in a single depository institution or issuer. The City does not have a formal investment policy for concentration of credit risk, nor does state law specify any requirements for concentration of credit risk. In addition, the City does not limit the amount that may be deposited or invested with any one institution.

At June 30, 2018, the City's investments included 63.5% in obligations issued or guaranteed by the United States and 36.5% invested in the State Treasurer's Investment Pool 7.

Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity period of an investment, the greater the sensitivity of its fair value to the changes in market interest rates.

The City does not have a formal investment policy that manages its exposure to declines in fair values in order to minimize its exposure to fair value losses arising from increasing interest rates.

Credit Risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations.

The City does not have a formal investment policy that limits its investments with any specific depository institution or issuer. The City's investment in the State Treasurer's Investment Pool 7, which only invests in obligations issued or guaranteed by the United States, does not carry a credit rating.

NOTE 4 - PROPERTY TAX CALENDAR

The City levies real and personal property taxes on or before the third Monday in August that become due and payable in two equal installments. The first installment is due on the first day of October and becomes delinquent after the first business day of November. The second installment is due on the first day of March of the next year and becomes delinquent after the first business day of May.

A lien assessed against real and personal property attaches on the first day of January preceding assessment and levy.

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NOTE 5 - RECEIVABLES

Receivables in the General, Special Revenue, Debt Service, Capital Projects, and Pension Trust Funds are considered to be fully collectible. Accordingly, an allowance for doubtful accounts has not been established in these funds. The allowances for doubtful accounts for receivables in the Water, Wastewater, and Sanitation Funds at June 30, 2018, are \$105,000, \$58,380, and \$30,032, respectively. Uncollectible amounts related to current period revenues of the Water, Wastewater, and Sanitation Funds are \$26,429, \$16,857 and \$7,984, respectively.

NOTE 6 - CAPITAL ASSETS

A summary of capital asset activity for governmental activities on the government-wide financial statements for the year ended June 30, 2018, follows:

Governmental Activities	Balance June 30, 2017	Additions	Deletions	Balance June 30, 2018
Non-depreciable assets:				
Land	\$ 256,331,391	\$ 308,358	\$ (179,872)	\$ 256,459,877
Construction in progress	1,977,620	10,494,061	(2,998,056)	9,473,625
Total non-depreciable capital assets	<u>258,309,011</u>	<u>10,802,419</u>	<u>(3,177,928)</u>	<u>265,933,502</u>
Depreciable assets:				
Buildings and improvements	81,917,166	867,740	-	82,784,906
Improvements other than buildings	23,208,173	639,667	-	23,847,840
Vehicles, furniture, and equipment	42,910,376	1,815,104	(675,151)	44,050,329
Infrastructure	393,345,539	3,573,322	-	396,918,861
Intangible assets	1,965,259	-	-	1,965,259
Total depreciable capital assets	<u>543,346,513</u>	<u>6,895,833</u>	<u>(675,151)</u>	<u>549,567,195</u>
Less accumulated depreciation for:				
Buildings and improvements	26,887,894	2,248,270	-	29,136,164
Improvements other than buildings	1,327,400	1,179,456	-	2,506,856
Vehicles, furniture and equipment	31,107,724	4,287,586	(675,151)	34,720,159
Infrastructure	174,952,472	9,915,924	-	184,868,396
Intangible assets	464,022	65,509	-	529,531
Total accumulated depreciation	<u>234,739,512</u>	<u>17,696,745</u>	<u>(675,151)</u>	<u>251,761,106</u>
Total capital assets being depreciated, net	<u>308,607,001</u>	<u>(10,800,912)</u>	<u>-</u>	<u>297,806,089</u>
Total governmental activities capital assets, net	<u>\$ 566,916,012</u>	<u>\$ 1,507</u>	<u>\$ (3,177,928)</u>	<u>\$ 563,739,591</u>

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A summary of capital asset activity for business-type activities on the government-wide financial statements for the year ended June 30, 2018, follows:

Business-type activities:	Balance June 30, 2017	Additions	Deletions	Balance June 30, 2018
Non-depreciable assets:				
Land	\$ 16,273,312	\$ -	\$ -	\$ 16,273,312
Intangible assets	1,523,755	-	-	1,523,755
Construction in progress	3,955,940	16,907,731	(1,631,926)	19,231,745
Total non-depreciable assets	<u>21,753,007</u>	<u>16,907,731</u>	<u>(1,631,926)</u>	<u>37,028,812</u>
Depreciable assets:				
Water system	306,477,202	284,721	-	306,761,923
Sewer system	229,210,749	1,129,122	-	230,339,871
Wastewater treatment system	81,877,353	-	-	81,877,353
Vehicles, furniture and equipment	17,214,178	1,091,237	(489,496)	17,815,919
Intangible Assets	2,980,551	-	-	2,980,551
Improvements other than buildings	808,883	-	-	808,883
Total depreciable capital assets	<u>638,568,916</u>	<u>2,505,080</u>	<u>(489,496)</u>	<u>640,584,500</u>
Less accumulated depreciation for:				
Water system	96,270,812	6,204,499	-	102,475,311
Sewer system	79,811,747	5,280,531	-	85,092,278
Wastewater treatment system	17,630,913	1,001,625	-	18,632,538
Vehicles, furniture and equipment	11,584,933	2,050,916	(483,805)	13,152,044
Intangible Assets	447,084	74,514	-	521,598
Improvements other than buildings	286,541	40,440	-	326,981
Total accumulated depreciation	<u>206,032,030</u>	<u>14,652,525</u>	<u>(483,805)</u>	<u>220,200,750</u>
Total business-type activities capital assets being depreciated, net	<u>432,536,886</u>	<u>(12,147,445)</u>	<u>(5,691)</u>	<u>420,383,750</u>
Total business-type activity capital assets, net	<u>\$ 454,289,893</u>	<u>\$ 4,760,286</u>	<u>\$ (1,637,617)</u>	<u>\$ 457,412,562</u>

Depreciation expense was charged to functions and programs of the primary government as follows:

Depreciation Expense by Activities

Governmental activities:	
General government	\$ 2,222,126
Public safety	2,323,969
Highways and streets	10,790,056
Health and welfare	91,587
Economic and community development	178,503
Culture and recreation	1,854,789
Transportation	112,713
Internal services	123,002
Total	<u>\$ 17,696,745</u>
Business-type activities:	
Water	\$ 7,304,816
Wastewater	6,772,502
Sanitation	575,207
Total	<u>\$ 14,652,525</u>

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NOTE 7 - FUND BALANCES

The fund balance classifications of the governmental funds as of June 30, 2018, were as follows:

	General Fund	Dedicated Sales Tax Revenue Fund	Public Safety Sales Tax Revenue Fund	Development Fees Fund	Non-Major Governmental Funds	Total Governmental Funds
Fund balances:						
Nonspendable:						
Inventory	\$ -	\$ -	\$ -	\$ -	\$ 267,598	\$ 267,598
Prepaid items	86,099	-	1,455	-	6,310	93,864
Advances to other funds	833,000	-	-	-	-	833,000
Restricted for:						
Transit services	-	-	-	-	1,752,045	1,752,045
Highway and streets	-	-	-	-	8,739,999	8,739,999
Courts	-	-	-	-	575,788	575,788
Grant and contributor purposes	-	-	-	-	1,805,961	1,805,961
Public safety	50,965	-	8,602,953	-	-	8,653,918
Debt service	-	-	-	-	7,598,789	7,598,789
Capital projects	-	-	-	1,177,750	1,486,785	2,664,535
Water, sewer, streets and transportation	-	4,804,165	-	-	855,676	5,659,841
Crime victim advocacy	-	-	-	-	156,204	156,204
Committed to:						
Budgetary stabilization	21,867,357	-	-	-	-	21,867,357
Capital projects	-	-	-	2,938,151	31,446	2,969,597
Crime victim advocacy	-	-	-	-	52,068	52,068
Assigned to:						
Vehicle replacement	-	-	-	-	7,979,615	7,979,615
Equipment replacement	-	-	-	-	1,298,485	1,298,485
Capital projects	-	-	-	5,004,626	10,494,072	15,498,698
Other purposes	2,386,030	-	-	-	-	2,386,030
Unassigned	22,849,263	-	-	-	(77,490)	22,771,773
Total fund balances	<u>\$ 48,072,714</u>	<u>\$ 4,804,165</u>	<u>\$ 8,604,408</u>	<u>\$ 9,120,527</u>	<u>\$ 43,023,351</u>	<u>\$ 113,625,165</u>

NOTE 8 - PENSION AND POSTEMPLOYMENT BENEFIT PLANS

The City contributes to the plans described below. The plans are component units of the State of Arizona.

At June 30, 2018, the City reported the following aggregate amounts related to pensions and other postemployment benefits (OPEB) for all plans to which it contributes:

	Governmental Activities	Business-Type Activities	Total
Statement of Net Position and Statement of Activities			
Net pension and OPEB (asset) liability			
Pension	\$ 54,380,785	\$ 7,259,304	\$ 61,640,089
OPEB	95,254	(8,651)	86,603
Deferred outflows of resources related to pensions and OPEB			
Pension	\$ 12,494,891	\$ 992,169	\$ 13,487,060
OPEB	149,155	28,841	177,996
Deferred inflows of resources related to pensions and OPEB			
Pension	\$ 2,425,480	\$ 436,984	\$ 2,862,464
OPEB	281,517	31,214	312,731
Pension and OPEB expense			
Pension	\$ 7,496,916	\$ 360,129	\$ 7,857,045
OPEB	145,457	24,201	169,658

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The City's accrued payroll and employee benefits includes \$270,803 of outstanding pension and OPEB contribution amounts payable to all pension plans for the year ended June 30, 2018. Also, the City reported \$4,101,746 of pension and OPEB contributions as expenditures in the governmental funds related to all pension plans to which it contributes.

During the year ended June 30, 2018, the City did not liquidate any of its pension or other post-employment benefits liabilities. Liquidations of these liabilities would be paid primarily from the General Fund.

A. Arizona State Retirement System

Plan description—City employees not covered by the other pension plans described below participate in the Arizona State Retirement System (ASRS). The ASRS administers a cost-sharing multiple-employer defined benefit pension plan, a cost-sharing multiple-employer defined benefit health insurance premium benefit (OPEB) plan, and a cost-sharing multiple-employer defined benefit long-term disability (OPEB) plan. The Arizona State Retirement System Board governs the ASRS according to the provisions of A.R.S. Title 38, Chapter 5, Articles 2 and 2.1. The ASRS issues a publicly available financial report that includes its financial statements and required supplementary information. The report is available on its website at www.azasrs.gov.

Benefits provided—The ASRS provides retirement, health insurance premium supplement, long-term disability, and survivor benefits. State statute establishes benefit terms. Retirement benefits are calculated on the basis of age, average monthly compensation, and service credit as follows:

ASRS	Retirement	
	Initial membership date:	
	Before July 1, 2011	On or after July 1, 2011
Years of service and age required to receive benefit	Sum of years and age equals 80 10 years, age 62 5 years, age 50* any years, age 65	30 years, age 55 25 years, age 60 10 years, age 62 5 years, age 50* any years, age 65
Final average salary is based on	Highest 36 consecutive months of last 120 months	Highest 60 consecutive months of last 120 months
Benefit percent per year of service	2.1% to 2.3%	2.1% to 2.3%

*With actuarially reduced benefits.

Retirement benefits for members who joined the ASRS prior to September 13, 2013, are subject to automatic cost-of-living adjustments based on excess investment earnings. Members with a membership date on or after September 13, 2013, are not eligible for cost-of-living adjustments. Survivor benefits are payable upon a member's death. For retired members, the retirement benefit option chosen determines the survivor benefit. For all other members, the beneficiary is entitled to the member's account balance that includes the member's contributions and employer's contributions, plus interest earned.

CITY OF AVONDALE, ARIZONA
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Contributions—In accordance with state statutes, annual actuarial valuations determine active member and employer contribution requirements. The combined active member and employer contribution rates are expected to finance the costs of benefits employees earn during the year, with an additional amount to finance any unfunded accrued liability. For the year ended June 30, 2018, statute required active ASRS members were required by statute to contribute at the actuarially determined rate of 11.5 percent (11.34 percent for retirement and 0.16 percent for long-term disability) of the members' annual covered payroll, and statute required the City to contribute at the actuarially determined rate of 11.5 percent (10.9 percent for retirement, 0.44 percent for health insurance premium benefit, and 0.16 percent for long-term disability) of the active members' annual covered payroll. In addition, the City was required by statute to contribute at the actuarially determined rate of 9.49 percent (9.26 percent for retirement, 0.1 percent for health insurance premium benefit, and 0.13 percent for long-term disability) of annual covered payroll of retired members who worked for the City in positions that an employee who contributes to the ASRS would typically fill. The City's contributions to the pension plan for the year ended June 30, 2018, was \$2,414,489.

During fiscal year 2018, the City paid for ASRS pension contributions as follows: 62.4 percent from the General Fund, 23.2 percent from other major funds, and 14.4 percent from other funds.

Pension Liability—At June 30, 2018, the City reported a liability of \$32,841,652 for its proportionate share of the ASRS' net pension liability. The net pension liability was measured as of June 30, 2017. The total pension liability used to calculate the net pension liability was determined using update procedures to roll forward the total liability from an actuarial valuation as of June 30, 2016, to the measurement date of June 30, 2017. The total pension liability as of June 30, 2017, reflects a change in actuarial assumption related to changes in loads for future potential permanent benefit increases.

The City's proportion of the net pension liability was based on the City's actual contributions to the plan relative to the total of all participating employers' contributions for the year ended June 30, 2017. The City's proportion measured as of June 30, 2017, was 0.21 percent, which remained substantially unchanged from its proportion measured as of June 30, 2016.

Pension expense and deferred outflows/inflows of resources—For the year ended June 30, 2018, the City recognized pension expense for ASRS of \$1,641,408. At June 30, 2018, the City reported deferred outflows of resources and deferred inflows of resources related to pensions from the sources on the following page:

ASRS	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ -	\$ 984,774
Change in assumptions or other inputs	1,426,392	988,559
Net difference between projected and actual earnings on pension plan investments	235,780	-
Changes in proportion and differences between city contributions and proportionate share of contributions	521,683	-
City contributions subsequent to the measurement date	2,414,489	-
Total	\$4,598,344	\$ 1,973,333

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The \$2,414,489 reported as deferred outflows of resources related to ASRS pensions resulting from city contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ending June 30, 2019. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to ASRS pensions will be recognized in pension expense as follows:

<u>Year ending June 30</u>	<u>Net Outflow/ (Inflow)</u>
2019	\$ (915,999)
2020	1,476,759
2021	411,749
2022	(761,987)

Actuarial Assumptions—The significant actuarial assumptions used to measure the total pension liability are as follows:

ASRS	
Actuarial valuation date	June 30, 2016
Actuarial roll forward date	June 30, 2017
Actuarial cost method	Entry age normal
Discount rate	8.0%
Projected salary increases	3–6.75%
Inflation	3.0%
Permanent benefit increase	Included
Mortality rates	1994 GAM Scale BB

Actuarial assumptions used in the June 30, 2016, valuation were based on the results of an actuarial experience study for the 5-year period ended June 30, 2012.

The long-term expected rate of return on ASRS pension plan investments was determined to be 8.7 percent using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

ASRS		Long-Term
Asset Class	Target Allocation	Expected Arithmetic Rate of Return
Equity	58%	6.73%
Fixed income	25%	3.70%
Real estate	10%	4.25%
Multi-asset	5%	3.41%
Commodities	2%	3.84%
Total	<u>100%</u>	

Discount Rate—The discount rate used to measure the ASRS total pension liability was 8 percent, which is less than the long-term expected rate of return of 8.7 percent. The projection of cash flows used to determine the discount rate assumed that contributions from participating employers will be made based on the actuarially

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determined rates based on the ASRS Board's funding policy, which establishes the contractually required rate under Arizona statute. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the City's proportionate share of the ASRS net pension liability to changes in the discount rate—The following table presents the City's proportionate share of the net pension liability calculated using the discount rate of 8 percent, as well as what the City's proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower (7 percent) or 1 percentage point higher (9 percent) than the current rate:

ASRS	1% Decrease	Current	1% Increase
	(7%)	Discount Rate (8%)	(9%)
City's proportionate share of the net pension liability	\$ 42,152,824	\$ 32,841,652	\$ 25,061,360

Pension plan fiduciary net position—Detailed information about the pension plan's fiduciary net position is available in the separately issued ASRS financial report.

B. Public Safety Personnel Retirement System and Corrections Officer Retirement Plan

Plan descriptions—City police and fire employees who are regularly assigned hazardous duty participate in the Public Safety Personnel Retirement System (PSPRS). The PSPRS administers agent and cost-sharing multiple-employer defined benefit pension plans and agent and cost-sharing multiple-employer defined benefit health insurance premium benefit (OPEB) plans. A nine-member board known as the Board of Trustees and the participating local boards govern the PSPRS according to the provisions of A.R.S. Title 38, Chapter 5, Article 4.

City detention officers participate in the Corrections Officer Retirement Plan (CORP). The CORP administers an agent multiple-employer defined benefit pension plan and an agent multiple-employer defined benefit health insurance premium benefit (OPEB) plan for city detention officers and dispatchers (agent plans), and a cost-sharing multiple-employer defined benefit pension plan and a cost-sharing multiple-employer defined benefit health insurance premium benefit (OPEB) plan for AOC officers (cost-sharing plans). The PSPRS Board of Trustees and the participating local boards govern CORP according to the provisions of A.R.S. Title 38, Chapter 5, Article 6.

The PSPRS issues a publicly available financial report that includes financial statements and required supplementary information for the PSPRS and CORP plans. The report is available on the PSPRS website at www.psprs.com.

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Benefits provided—The PSPRS and CORP provide retirement, health insurance premium supplement, disability, and survivor benefits. State statute establishes benefit terms. Retirement, disability, and survivor benefits are calculated on the basis of age, average monthly compensation, and service credit as follows:

PSPRS	Initial membership date:	
	Before January 1, 2012	On or after January 1, 2012 and before July 1, 2017
Retirement and Disability		
Years of service and age required to receive benefit	20 years of service, any age 15 years of services, age 62	25 years of service or 15 years of credited service, age 52.5
Final average salary is based on	Highest 36 consecutive month of last 20 years	Highest 60 consecutive months of last 20 years
Benefit percent		
Normal Retirement	50% less 2.0% for each year of credited service less than 20 years OR plus 2.0% to 2.5% for each year of credited service over 20 years, not to exceed 80%	1.5% to 2.5% per year of credited service, not to exceed 80%
Accidental Disability Retirement	50% or normal retirement, whichever is greater	
Catastrophic Disability Retirement	90% for the first 60 months then reduced to either 62.5% or normal retirement, whichever is greater	
Ordinary Disability Retirement	Normal retirement calculated with actual years of credited service or 20 years of credited service, whichever is greater, multiplied by years of credited service (not to exceed 20 years) divided by 20	
Survivor Benefit		
Retired members	80% to 100% of retired member's pension benefit	
Active members	80% to 100% of accidental disability retirement benefit or 100% of average monthly compensation if death was the result of injuries received on the job	

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CORP	Initial membership date:	
	Before January 1, 2012	On or after January 1, 2012
Retirement and Disability		
Years of service and age required to receive benefit	Sum of years and age equals 80 20 years, any age 10 years, age 62	25 years, age 52.5 10 years, age 62
Final average salary is based on	Highest 36 consecutive month of last 10 years	Highest 60 consecutive months of last 10 years
Benefit percent		
Normal Retirement	2.0% to 2.5% per year of credited service, not to exceed 80%	
Accidental Disability Retirement	50% or normal retirement if more than 20 years of credited service	50% or normal retirement if more than 25 years of credited service
Total and Permanent Disability	50% or normal retirement if more than 25 years of credited service	
Ordinary Disability Retirement	2.5% per year of credited service	
Survivor Benefit		
Retired members	80% of retired member's pension benefit	
Active members	40% of average monthly compensation or 100% of average monthly compensation if death was the result of injuries received on the job. If there is no surviving spouse or eligible children, the beneficiary is entitled to 2 times the member's contributions.	

Retirement and survivor benefits are subject to automatic cost-of-living adjustments. The adjustments are based on inflation for PSPRS and excess investment earning for CORP. In addition, the Legislature may enact permanent one-time benefit increases after a Joint Legislative Budget Committee analysis of the increase's effects on the plan. PSPRS also provides temporary disability benefits of 50 percent of the member's compensation for up to 12 months.

Employees covered by benefit terms—At June 30, 2018, the following employees were covered by the agent pension plans' benefit terms:

	PSPRS Police	PSPRS Fire	CORP Detention
Inactive employees or beneficiaries currently receiving benefits	27	6	1
Inactive employees entitled to but not yet receiving benefits	28	7	4
Active employees	120	65	8
Total	<u>175</u>	<u>78</u>	<u>13</u>

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Contributions and annual OPEB cost—State statutes establish the pension contribution requirements for active PSPRS and CORP employees. In accordance with state statutes, annual actuarial valuations determine employer contribution requirements for PSPRS and CORP pension benefits. The combined active member and employer contribution rates are expected to finance the costs of benefits employees earn during the year, with an additional amount to finance any unfunded accrued liability. Contributions rates for the year ended June 30, 2018, are indicated below. Rates are a percentage of active members' annual covered payroll.

	Active member - Pension	City Pension
PSPRS-Police Tier 1 & 2	7.65%	27.04%
PSPRS-Police Tier 3	9.94%	22.24%
PSPRS-Fire Tier 1 & 2	7.65%	25.29%
PSPRS-Fire Tier 3	9.94%	19.87%
PSPRS CORP	8.41%	13.73%

In addition, statute required the City to contribute at the actuarially determined rate indicated below of annual covered payroll of retired members who worked for the City in positions that an employee who contributes to the PSPRS would typically fill.

	PSPRS Police	PSPRS Fire	CORP Detention
Pension	12.49%	10.03%	n/a

The City's contributions to the plans for the year ended June 30, 2018, were:

	Pension
PSPRS-Police Tier 1 & 2	\$ 1,447,516
PSPRS-Police Tier 3	38,109
PSPRS-Fire Tier 1 & 2	576,691
PSPRS-Fire Tier 3	4,795
PSPRS-CORP	76,431

During fiscal year 2018, the City paid for PSPRS and CORP pension contributions as follows: 75.4 percent from the General Fund, 24.4 percent from other major funds, and 0.2 percent from other funds.

Pension Liability—At June 30, 2018, the City reported the following net pension liabilities:

	Net Pension Liability
PSPRS-Police	\$ 17,695,996
PSPRS-Fire	9,127,597
PSPRS-CORP	935,884

The net pension liabilities were measured as of June 30, 2017, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date. The total pension liabilities as of June 30, 2017, reflect changes of actuarial assumptions based on the results of an actuarial experience study for the 5-year period ended June 30, 2016, including decreasing the investment rate of return from 7.5 percent to 7.4 percent, decreasing the wage inflation from 4 percent to 3.5 percent, and updating mortality, withdrawal, disability, and retirement assumptions. The total pension liabilities for CORP and CORP AOC also reflect changes of benefit terms for a court decision that increased cost-of-living adjustments for retirees who

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became members before July 20, 2011. The total pension liabilities for PSPRS also reflect changes of benefit terms for legislation that changed benefit eligibility and multipliers for employees who became members on or after January 1, 2012, and before July 1, 2017, and a court decision that decreased the contribution rates for employees who became members before July 20, 2011. The court decision will also affect the PSPRS net pension liabilities measured as of June 30, 2018, because of refunds of excess member contributions. The change in the City's PSPRS net pension liabilities as a result of the refunds is not known.

Pension actuarial assumptions—The significant actuarial assumptions used to measure the total pension liability are as follows:

PSPRS and CORP—Pension

Actuarial valuation date	June 30, 2017
Actuarial cost method	Entry age normal
Investment rate of return	7.4%
Wage inflation	3.5%
Price inflation	2.5%
Permanent benefit increase	Included
Mortality rates	RP-2014 tables using MP-2016 improvement scale with adjustments to match current experience

Actuarial assumptions used in the June 30, 2017, valuation were based on the results of an actuarial experience study for the 5-year period ended June 30, 2016.

The long-term expected rate of return on PSPRS and CORP pension plan investments was determined to be 7.4 percent using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expenses and inflation) are developed for each major asset class. The target allocation and best estimates of geometric real rates of return for each major asset class are summarized in the following table:

PSPRS and CORP	Long-Term	
	Target	Expected Geometric
Asset Class	Allocation	Real Rate of Return
Short term investments	2%	0.25%
Absolute return	2%	3.75%
Risk parity	4%	5.00%
Fixed income	5%	1.25%
Real assets	9%	4.52%
GTAA	10%	3.96%
Private equity	12%	6.75%
Real estate	10%	3.75%
Private credit	16%	5.83%
Non-U.S. equity	14%	8.70%
U.S. equity	16%	7.60%
Total	100%	

Pension discount rates—At June 30, 2017, the discount rate used to measure the PSPRS and CORP total pension liabilities was 7.4 percent, which was a decrease of 0.1 percent from the discount rate used as of June 30, 2016. The projection of cash flows used to determine the discount rates assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between the actuarially determined contribution rate and the member rate. Based on those assumptions, the pension plans' fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return

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on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Changes in the Net Pension Liability (Asset)

PSPRS—Police

	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (Asset) (a) - (b)
Balances at June 30, 2017	<u>\$ 37,194,800</u>	<u>\$ 21,046,785</u>	<u>\$ 16,148,015</u>
Changes for the year:			
Service cost	1,976,541	-	1,976,541
Interest on total pension liability	2,821,376	-	2,821,376
Changes in benefit terms	381,272	-	381,272
Differences between expected and actual experience in the measurement of the pension liability	966,425	-	966,425
Changes in assumptions or other inputs	771,117	-	771,117
Contributions—employer	-	1,823,389	(1,823,389)
Contributions—employee	-	976,415	(976,415)
Net investment income	-	2,570,277	(2,570,277)
Benefit payments, including refunds of employee contributions	(1,129,451)	(1,129,451)	-
Administrative expense	-	(23,143)	23,143
Other changes	-	21,812	(21,812)
Net changes	<u>5,787,280</u>	<u>4,239,299</u>	<u>1,547,981</u>
Balances at June 30, 2018	<u>\$ 42,982,080</u>	<u>\$ 25,286,084</u>	<u>\$ 17,695,996</u>

Changes in the Net Pension Liability (Asset)

PSPRS—Fire

	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (Asset) (a) - (b)
Balances at June 30, 2017	<u>\$ 27,493,358</u>	<u>\$ 18,369,711</u>	<u>\$ 9,123,647</u>
Changes for the year:			
Service cost	1,296,498	-	1,296,498
Interest on total pension liability	2,098,727	-	2,098,727
Changes in benefit terms	170,572	-	170,572
Differences between expected and actual experience in the measurement of the pension liability	(55,836)	-	(55,836)
Changes in assumptions or other inputs	303,190	-	303,190
Contributions—employer	-	955,224	(955,224)
Contributions—employee	-	642,054	(642,054)
Net investment income	-	2,229,110	(2,229,110)
Benefit payments, including refunds of employee contributions	(317,165)	(317,165)	-
Administrative expense	-	(20,124)	20,124
Other changes	-	2,937	(2,937)
Net changes	<u>3,495,986</u>	<u>3,492,036</u>	<u>3,950</u>
Balances at June 30, 2018	<u>\$ 30,989,344</u>	<u>\$ 21,861,747</u>	<u>\$ 9,127,597</u>

CITY OF AVONDALE, ARIZONA
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Changes in the Net Pension Liability (Asset)

CORP–Detention

	Increase (Decrease)		
	Total	Plan	Net
	Pension	Fiduciary	Pension
	Liability	Net	Liability
	(a)	Position	(Asset)
		(b)	(a) - (b)
Balances at June 30, 2016	<u>\$ 1,868,023</u>	<u>\$ 1,254,350</u>	<u>\$ 613,673</u>
Changes for the year:			
Service cost	83,184	-	83,184
Interest on total pension liability	142,787	-	142,787
Changes in benefit terms	435,594	-	435,594
Differences between expected and actual experience in the measurement of the pension liability	(74,623)	-	(74,623)
Changes in assumptions or other inputs	(7,330)	-	(7,330)
Contributions—employer	-	58,239	(58,239)
Contributions—employee	-	46,645	(46,645)
Net investment income	-	154,274	(154,274)
Benefit payments, including refunds of employee contributions	(11,584)	(11,584)	-
Administrative expense	-	(1,750)	1,750
Other changes	-	(7)	7
Net changes	<u>568,028</u>	<u>245,817</u>	<u>322,211</u>
Balances at June 30, 2017	<u><u>\$ 2,436,051</u></u>	<u><u>\$ 1,500,167</u></u>	<u><u>\$ 935,884</u></u>

Sensitivity of the City’s net pension liability to changes in the discount rate—The following table presents the City’s net pension liabilities calculated using the discount rates noted above, as well as what the City’s net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower (6.4 percent) or 1 percentage point higher (8.4 percent) than the current rate:

	1%	Current	1%
	Decrease	Discount	Increase
Net Pension Liability	(6.40%)	Rate	(8.40%)
		(7.40%)	
PSPRS–Police	\$ 24,758,818	\$ 17,695,996	\$ 12,059,761
PSPRS–Fire	14,104,265	9,127,597	5,124,424
CORP–Detention	1,376,358	935,884	585,380

Pension plan fiduciary net position—Detailed information about the pension plans’ fiduciary net position is available in the separately issued PSPRS and CORP financial reports.

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Pension expense—For the year ended June 30, 2018, the City recognized the following pension expense:

	Pension Expense
PSPRS—Police	\$ 3,385,309
PSPRS—Fire	1,867,417
CORP—Detention	546,612

Pension deferred outflows/inflows of resources—At June 30, 2018, the City reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

PSPRS—Police	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 1,234,606	\$ 644,470
Changes of assumptions or other inputs	2,767,643	-
Net difference between projected and actual earnings on pension plan investments	287,043	-
City contributions subsequent to the measurement date	1,485,625	-
Total	<u>\$ 5,774,917</u>	<u>\$ 644,470</u>
PSPRS—Fire	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 203,633	\$ 142,980
Changes of assumptions or other inputs	1,733,609	-
Net difference between projected and actual earnings on pension plan investments	252,084	-
City contributions subsequent to the measurement date	581,486	-
Total	<u>\$ 2,770,812</u>	<u>\$ 142,980</u>

CITY OF AVONDALE, ARIZONA
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CORP–Detention	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 74,417	\$ 86,903
Changes of assumptions or other inputs	58,484	5,773
Net difference between projected and actual earnings on pension plan investments	15,638	-
City contributions subsequent to the measurement date	76,431	-
Total	\$ 224,970	\$ 92,676

The amounts reported as deferred outflows of resources related to pensions resulting from city contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ending June 30, 2019. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year ending June 30	PSPRS Police	PSPRS Fire	CORP Detention
2019	\$ 792,140	\$ 324,793	\$ 26,572
2020	967,047	472,199	40,463
2021	810,347	337,359	12,518
2022	385,438	79,681	(23,690)
2023	342,559	240,487	-
Thereafter	347,291	591,827	-

C. Elected Officials Retirement Plan

Plan description— Elected officials and judges participate in the Elected Officials Retirement Plan (EORP), ASRS, or the Elected Officials Defined Contribution Retirement System (EODCRS). EORP administers a cost-sharing multiple-employer defined benefit pension plan and a cost-sharing multiple-employer defined benefit health insurance premium benefit (OPEB) plan for elected officials and judges who were members of the plan on December 31, 2013. The EORP pension plan was closed to new members as of January 1, 2014. The PSPRS Board of Trustees governs the EORP according to the provisions of A.R.S. Title 38, Chapter 5, Article 3. The PSPRS issues a publicly available financial report that includes financial statements and required supplementary information for the EORP plans. The report is available on PSPRS’s website at www.psprs.com.

Benefits provided—The EORP provides retirement, health insurance premium supplement, disability, and survivor benefits. State statute establishes benefit terms. Retirement, disability, and survivor benefits are calculated on the basis of age, average yearly compensation, and service credit as follows:

CITY OF AVONDALE, ARIZONA
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EORP	Initial membership date:	
	Before January 1, 2012	On or after January 1, 2012
Retirement and Disability		
Years of service and age required to receive benefit	20 years, any age 10 years, age 62 5 years, age 65 5 years, any age* any years and age if disabled	10 years, age 62 5 years, age 65 any years and age if disabled
Final average salary is based on	Highest 36 consecutive month of last 10 years	Highest 60 consecutive months of last 10 years
Benefit percent		
Normal Retirement	4% per year of service, not to exceed 80%	3% per year of service, not to exceed 75%
Disability Retirement	80% with 10 or more years of service 40% with 5 to 10 years of service 20% with less than 5 years of service	75% with 10 or more years of service 37.5% with 5 to 10 years of service 10% with less than 5 years of service
Survivor Benefit		
Retired Members	75% of retired member's benefit	50% of retired member's benefit
Active Members and Other Inactive Members	75% of disability retirement benefit	50% of disability retirement benefit

* With reduced benefits of 0.25% for each month early retirement precedes the member's normal retirement age, with a maximum reduction of 30%.

Retirement and survivor benefits are subject to automatic cost-of-living adjustments based on excess investment earning. In addition, the Legislature may enact permanent one-time benefit increases after a Joint Legislative Budget Committee analysis of the increase's effects on the plan.

Contributions—State statutes establish active member and employer contribution requirements. Statute also appropriates \$5 million annually through fiscal year 2043 for the EORP from the State of Arizona to supplement the normal cost plus an amount to amortize the unfunded accrued liability and designates a portion of certain court fees for the EORP. For the year ended June 30, 2018, statute required active EORP members to contribute 7 or 13 percent of the members' annual covered payroll for July 2016 through April 8, 2017, and 7 percent of the members' annual covered payroll. Also, statute required the City to contribute 12.16 percent to EORP of the annual covered payroll of elected officials and judges who were ASRS members and 17.50 percent to EORP of the annual covered payroll of elected officials and judges who were EODCRS members, in addition to the City's required contributions to ASRS and EODCRS for these elected officials and judges. In addition, statute required the City to contribute 23.5 percent of annual covered payroll of retired members who worked for the City in positions that an employee who contributes to the EORP would typically fill. The City made no contributions to the pension plan for the year ended June 30, 2018.

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Pension Liability—At June 30, 2018, the City reported a liability for its proportionate share of the EORP’s net pension liability that reflected a reduction for the City’s proportionate share of the State’s appropriation for EORP. The amount the City recognized as its proportionate share of the net pension liability, the related state support, and the total portion of the net pension liability that was associated with the City were as follows:

City’s proportionate share of the EORP net pension liability	\$ 1,038,960
State’s proportionate share of the EORP net pension liability associated with the City	65,229
Total	<u>\$ 1,104,189</u>

The net pension liability was measured as of June 30, 2017, and the total liability used to calculate the net asset or net liability was determined by an actuarial valuation as of that date. The total pension liability as of June 30, 2017, reflects changes of actuarial assumptions based on the results of an actuarial experience study for the 5-year period ended June 30, 2016, including decreasing the investment rate of return to from 7.5 percent to 7.4 percent, decreasing the wage inflation from 4 percent to 3.5 percent, and updating mortality, withdrawal, disability, and retirement assumptions. The total pension liability also reflects changes of benefit terms for a court decision that increased cost-of-living adjustments for retirees and decreased the contribution rates for employees who became members before July 20, 2011. The court decision will also affect the net pension liability measured as of June 30, 2018, because of refunds of excess member contributions. The change in the County’s net pension liability as a result of the refunds is not known.

The City’s proportion of the net pension liability was based on the City’s actual contributions to the plan relative to the total of all participating employers’ actual contributions for the year ended June 30, 2017. The City’s proportion measured as of June 30, 2017, was 0.07 percent, which remained substantially unchanged from its proportion measured as of June 30, 2016.

Pension expense and deferred outflows/inflows of resources—For the year ended June 30, 2018, the City recognized pension expense for EORP of \$416,299 and revenue of \$65,229 for the City’s proportionate share of the State’s appropriation to EORP and designated court fees. At June 30, 2018, the City reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

EORP	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ -	\$ -
Changes of assumptions or other inputs	40,553	9,005
Net difference between projected and actual earnings on pension plan investments	6,368	-
Changes in proportion and differences between city contributions and proportionate share of contributions	71,096	-
City contributions subsequent to the measurement date	-	-
Total	<u>\$ 118,017</u>	<u>\$ 9,005</u>

CITY OF AVONDALE, ARIZONA
NOTES TO FINANCIAL STATEMENTS
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The deferred outflows of resources and deferred inflows of resources related to EORP pensions will be recognized in pension expenses as follows:

<u>Year ending June 30</u>	<u>Net Outflow/ (Inflow)</u>
2019	\$ 91,654
2020	17,729
2021	1,683
2022	(2,054)

Actuarial assumptions—The significant actuarial assumptions used to measure the total pension liability are as follows:

EORP

Actuarial valuation date	June 30, 2017
Actuarial cost method	Entry age normal
Investment Rate of Return	7.4%
Wage inflation	3.5%
Price inflation	2.5%
Permanent benefit increase	Included
Mortality rates	RP-2014 tables using MP-2016 improvement scale with adjustments to match current experience.

Actuarial assumptions used in the June 30, 2017, valuation were based on the results of an actuarial experience study for the 5-year period ended June 30, 2016.

The long-term expected rate of return on EORP pension plan investments was determined to be 7.40 percent using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expenses and inflation) are developed for each major asset class. The target allocation and best estimates of geometric real rates of return for each major asset class are summarized in the following table:

EORP	Target	Long-Term
Asset Class	Allocation	Expected Geometric Real Rate of Return
Short-term investments	2%	0.25%
Absolute return	2%	3.75%
Risk parity	4%	5.00%
Fixed income	5%	1.25%
Real assets	9%	4.52%
GTAA	10%	3.96%
Private equity	12%	6.75%
Real estate	10%	3.75%
Private credit	16%	5.83%
Non-U.S. equity	14%	8.70%
U.S. equity	16%	7.60%
Total	<u>100%</u>	

Discount rate—At June 30, 2017, the discount rate used to measure the EORP total pension liability was 3.91 percent, which was an increase of 0.23 percent from the discount rate used as of June 30, 2016. The projection

CITY OF AVONDALE, ARIZONA
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of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate, employer contributions will be made at the statutorily set rates, and state contributions will be made as currently required by statute. Based on those assumptions, the pension plan's fiduciary net position was projected to be insufficient to make all projected future benefit payments of current plan members. Therefore, to determine the total pension liability for the plan, the long-term expected rate of return on pension plan investments of 7.40 percent was applied to periods of projected benefit payments through the year ended June 30, 2026. A municipal bond rate of 3.56 percent obtained from the Fidelity 20-year Municipal GO AA Index as of June 30, 2017, was applied to periods of projected benefit payments after June 30, 2026.

Sensitivity of the City's proportionate share of the EORP net pension liability to changes in the discount rate—The following table presents the City's proportionate share of the net pension liability calculated using the discount rate of 3.91 percent, as well as what the City's proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower (2.91 percent) or 1 percentage point higher (4.91 percent) than the current rate:

EORP	1% Decrease (2.91%)	Current Discount Rate (3.91%)	1% Increase (4.91%)
City's proportionate share of the net pension liability	\$ 1,227,286	\$ 1,038,960	\$ 885,367

Pension plan fiduciary net position—Detailed information about the pension plan's fiduciary net position is available in the separately issued EORP financial report.

D. Volunteer Fire Fighters Relief and Pension Fund

The Fund is a single-employer defined contribution pension plan to provide pension benefits to volunteer fire fighters who are not covered under PSPRS, have served 20 years of service, and meet all requirements as prescribed in A.R.S. Title 9, Chapter 8, Article 3. The plan, which is administered by the City, was created and approved by the City Council under the A.R.S., Section 9-981. The plan is closed to new members.

The assets of the plan are valued annually and the earnings or loss are distributed among participant accounts in the plan. The only deductions from the plan are to pay benefits to the remaining plan members. Fire fighters who have served 20 years of service and meet all requirements as prescribed in of A.R.S. Title 9, Chapter 8, Article 3, are entitled to a monthly pension not to exceed \$400. As of June 30, 2018, the plan was fully vested and there was one remaining eligible employee participating in the plan.

The plan has never had an actuarial valuation, but plan benefits cannot exceed plan assets. The payroll for the fire fighter covered by the plan for the year ended June 30, 2018, was \$0 and, therefore, neither the City nor the fire fighter made contributions to the plan during the year.

CITY OF AVONDALE, ARIZONA
NOTES TO FINANCIAL STATEMENTS
JUNE 30, 2018

NOTE 9 - LONG-TERM OBLIGATIONS

The City has issued general obligation bonds to acquire and construct water and sewer system improvements, street and highway improvements, library facilities, a multi-purpose recreation center and to refund prior outstanding general obligation bonds. The City has also issued governmental activities pledged revenue refunding obligations and highway user revenue refunding bonds to refund prior outstanding pledged revenue and highway user revenue bonds, as well as business-type activities water and sewer system revenue bonds to finance and acquire improvements to the water production and distribution system, sewer collection and treatment system, and wastewater treatment plant.

Annual debt service requirements to maturity on these bonds at June 30, 2018, are summarized as follows:

Year Ending June 30	Governmental Activities				Business-type Activities			
	General Obligation Bonds		Pledged Revenue Refunding Obligations		Water and Sewer Revenue Bonds		Pledged Revenue Refunding Obligations	
	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest
2019	\$ 3,190,000	\$ 737,444	\$ 4,941,827	\$ 844,278	\$ 810,000	\$ 318,600	\$ 128,174	\$ 24,622
2020	1,620,000	703,586	5,194,628	594,594	690,000	297,000	135,373	17,856
2021	1,515,000	669,650	4,503,259	379,880	715,000	274,600	111,741	12,270
2022	1,565,000	617,850	2,179,575	270,900	315,000	262,000	70,425	8,750
2023	1,635,000	552,450	2,290,976	156,350	325,000	249,000	74,025	5,050
2024-28	9,580,000	1,590,900	3,308,110	36,229	1,845,000	1,029,400	106,890	1,170
2029-33	2,635,000	15,200	-	-	2,240,000	614,200	-	-
2034-38	-	-	-	-	2,140,000	132,400	-	-
Total	<u>\$21,740,000</u>	<u>\$4,887,080</u>	<u>\$22,418,375</u>	<u>\$2,282,231</u>	<u>\$9,080,000</u>	<u>\$3,177,200</u>	<u>\$626,626</u>	<u>\$69,718</u>

The general obligation bonds are secured by property taxes (ad valorem taxes) levied by the City on all taxable property within the City sufficient to pay all principal and interest on the bonds as they come due.

The City has pledged certain future revenues to repay specific revenue bonded debt as follows:

- The City has pledged future excise tax revenues, including local sales taxes and state-shared sales and income taxes, to repay \$31.5 million of Pledged Revenue Refund Obligations, Series 2013 and 2016. At year end, \$22.4 million in bonds remains outstanding to be repaid with future excise tax revenues over the next 7 years. For the year ended June 30, 2018, the excise taxes available to service debt was \$73.1 million, and the principal and interest on this debt was \$6.1 million (8.3% of the available pledged revenues).
- The City has pledged future water and wastewater utility revenues to repay \$18.1 million of Water and Sewer System Revenue Obligations, Series 2010 and 2016. At year end, \$9.1 million in bonds remains outstanding to be repaid with future water and sewer revenues over the next 18 years. For the year ended June 30, 2018, the net water and wastewater utility revenues available to service debt was \$15.8 million and the principal and interest on this debt was \$1.1 million (7.0% of the available net pledged revenues).

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A summary of changes in governmental activities long-term liabilities reported in the government-wide financial statements for the year ended June 30, 2018, follows:

	Balance July 1, 2017	Additions	Deletions	Balance June 30, 2018	Due Within One Year
Governmental activities:					
Compensated absences	\$ 5,710,800	\$ 4,432,830	\$ 4,648,663	\$ 5,494,967	\$ 4,395,974
Capital leases payable	273,100	4,542,254	273,100	4,542,254	183,767
Claims payable	2,579,010	177,085	1,821,063	935,032	567,488
General Obligation Bonds	22,310,000	21,350,000	21,920,000	21,740,000	3,190,000
Pledged Revenue Bonds	27,417,070	-	4,998,695	22,418,375	4,941,827
Highway User Revenue Bonds	330,000	-	330,000	-	
Unamortized premiums and discounts, net	2,762,970	2,464,479	648,255	4,579,194	643,061
Net pension and other post- employment benefits liability	52,945,526	10,248,468	8,717,955	54,476,039	-
Total	<u>\$114,328,476</u>	<u>\$43,215,116</u>	<u>\$43,357,731</u>	<u>\$ 114,185,861</u>	<u>\$13,922,117</u>

The internal service funds primarily provide services to the governmental funds. Accordingly, their long-term liabilities are reported with governmental activities in the Statement of Net Position. At fiscal year-end, internal service funds compensated absences of \$91,543, self-insurance claims payable of \$935,032, and \$844,571 of net pension and other postemployment benefit liability are included in the above liabilities.

Compensated Absences—Compensated absences payable are paid from various funds in the same proportion that those funds pay payroll and employee benefit costs. During the year ended June 30, 2018, the City primarily paid for compensated absences from the General Fund.

Capital Leases—The City has acquired and installed heating, cooling, lighting, and street lighting equipment under the provisions of long-term lease agreements classified as capital leases for accounting purposes because they transfer ownership by the end of the lease term.

The following assets were acquired through capital leases:

Class of Property	Governmental Activities
Construction in Progress	\$5,578,832
Carrying value	<u>\$5,578,832</u>

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NOTES TO FINANCIAL STATEMENTS
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The following schedule details debt service requirements to maturity for the City's capital lease payable at June 30, 2018.

<u>Year Ending June 30</u>	<u>Governmental Activities</u>
2019	\$ 341,227
2020	381,357
2021	367,645
2022	384,210
2023	410,068
2024-28	2,263,638
2029-33	1,181,837
2034-2038	190,106
Total minimum lease payments	5,520,088
Less amount representing interest	(977,834)
Present value of net minimum lease	<u>\$ 4,542,254</u>

Pledged Revenue Refunding Obligations—These obligations were issued to refund outstanding MDC Revenue Bonds and are backed by the City's general excise taxes. Principal payments are due annually and interest payments are due semiannually.

The following issues are currently outstanding.

<u>Issue</u>	<u>Interest Rate</u>	<u>Maturity</u>	<u>Outstanding Principal June 30, 2018</u>
2013 series bonds	2.00 - 4.00%	2020	\$ 3,025,000
2016 series bonds (96.87% of total issue)	2.00 - 5.00%	2024	19,393,375
			<u>\$ 22,418,375</u>

Annual debt service requirements to maturity for the pledged revenue refunding obligations are as follows:

<u>Year Ending June 30</u>	<u>Principal</u>	<u>Interest</u>
2019	\$ 4,941,827	\$ 844,278
2020	5,194,628	594,594
2021	4,503,259	379,880
2022	2,179,575	270,900
2023	2,290,976	156,350
2024-2028	3,308,110	36,229
Total	<u>\$ 22,418,375</u>	<u>\$ 2,282,231</u>

General Obligation Bonds—These bonds are issued for the purpose of constructing capital assets and related improvements. The bonds are backed by the taxing authority of the City and are approved by the voters. Principal payments are due annually and interest payments are due semiannually.

On December 14, 2017, the City issued \$21,350,000 of General Obligation Refunding Bonds, Tax-Exempt Series 2017A and Taxable Series 2017B to refund \$20,900,000 of outstanding General Obligation Bonds, Taxable Series 2009, and pay related bond issue costs. The issuance yielded \$23,395,316 of net bond proceeds, including a bond premium of \$2,464,479, less bond issue costs of \$419,162. The City deposited \$23,395,316 of

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the net bond proceeds with an escrow agent, who deposited the proceeds in an irrevocable trust. The proceeds are invested in securities backed by the U.S. Government that are designed to meet all future debt service requirements of the defeased \$20,900,000 of General Obligation Bonds, Taxable Series 2009. The refunding was undertaken to reduce future debt services payments by \$5,951,684 over the next twelve years and resulted in an economic gain (net present value savings) of \$3,543,487.

The following issues are currently outstanding:

<u>Issue</u>	<u>Interest Rate</u>	<u>Maturity</u>	<u>Outstanding Principal June 30, 2018</u>
2010 series bonds	2.75 - 3.25%	2019	\$ 390,000
2017A series bonds	1.88 - 2.40%	2029	14,740,000
2017B series bonds	4.00 - 5.00%	2021	6,610,000
			<u>\$ 21,740,000</u>

Annual debt service requirements to maturity for general obligation bonds are as follows:

<u>Year Ending June 30</u>	<u>Principal</u>	<u>Interest</u>
2019	\$ 3,190,000	\$ 737,444
2020	1,620,000	703,586
2021	1,515,000	669,650
2022	1,565,000	617,850
2023	1,635,000	552,450
2024-2028	9,580,000	1,590,900
2029-2033	2,635,000	15,200
Total	<u>\$21,740,000</u>	<u>\$4,887,080</u>

A summary of changes in long-term liabilities for the business-type activities reported in the government-wide financial statements for the year ended June 30, 2018, follows:

	<u>Balance July 1, 2017</u>	<u>Additions</u>	<u>Deletions</u>	<u>Balance June 30, 2018</u>	<u>Due Within One Year</u>
Business-type activities:					
Compensated absences	\$ 754,014	\$ 597,015	\$ 615,584	\$ 735,445	\$ 588,356
Water and Sewer Revenue Bonds	9,915,000	-	835,000	9,080,000	810,000
Pledged Revenue Bonds	757,930	-	131,304	626,626	128,174
Unamortized premiums and discounts, net	1,280,618	-	115,553	1,165,065	115,553
Net pension and post-employment benefits liability	7,486,404	891,984	1,127,735	7,250,653	-
Total	<u>\$ 20,193,966</u>	<u>\$ 1,488,999</u>	<u>\$ 2,825,176</u>	<u>\$ 18,857,789</u>	<u>\$ 1,642,083</u>

CITY OF AVONDALE, ARIZONA
NOTES TO FINANCIAL STATEMENTS
JUNE 30, 2018

Water and Sewer Revenue Bonds—The revenue produced by the water and sewer facilities secures water and sewer revenue bonds. The voters must approve these bonds. Principal payments are due annually and interest payments are due semiannually.

The following issues are currently outstanding.

<u>Issue</u>	<u>Interest Rate</u>	<u>Maturity</u>	<u>Outstanding Principal June 30, 2018</u>
2010 series obligations	3.0 - 5.0%	2020	\$ 1,310,000
2016 series obligations	2.0 - 4.0%	2036	7,770,000
			<u>\$ 9,080,000</u>

Annual debt service requirements to maturity for the water and sewer revenue bonds are as follows:

<u>Year Ending June 30</u>	<u>Principal</u>	<u>Interest</u>
2019	\$ 810,000	\$ 318,600
2020	690,000	297,000
2021	715,000	274,600
2022	315,000	262,000
2023	325,000	249,000
2024-2028	1,845,000	1,029,400
2029-2033	2,240,000	614,200
2034-2038	2,140,000	132,400
Total	<u>\$ 9,080,000</u>	<u>\$ 3,177,200</u>

Pledged Revenue Refunding Obligations—These obligations were issued to refund outstanding MDC Revenue Bonds and are backed by the City's general excise taxes. Principal payments are due annually and interest payments are due semiannually. The following issue is currently outstanding.

<u>Issue</u>	<u>Interest Rate</u>	<u>Maturity</u>	<u>Outstanding Principal June 30, 2018</u>
2016 series bonds (3.13% of total issue)	2.00 - 5.00%	2024	\$ 626,626
			<u>\$ 626,626</u>

Annual debt service payments to maturity for pledged revenue refunding obligations of business-type activities are as follows:

<u>Year Ending June 30</u>	<u>Principal</u>	<u>Interest</u>
2019	\$ 128,174	\$ 24,622
2020	135,373	17,856
2021	111,741	12,270
2022	70,425	8,750
2023	74,025	5,050
2024-2028	106,888	1,170
Total	<u>\$ 626,626</u>	<u>\$ 69,718</u>

CITY OF AVONDALE, ARIZONA
NOTES TO FINANCIAL STATEMENTS
JUNE 30, 2018

NOTE 10 - INTERFUND BALANCES AND ACTIVITY

Interfund balances at June 30, 2018, were as follows:

Advances From/ Due to	Advances To	Due From			Total
	Development Fees Fund	Nonmajor Governmental Funds	Enterprise Funds	Internal Service Funds	
General Fund	\$ 833,000	\$ 1,589,172	\$ 744	\$ 146,043	\$ 1,735,959

About \$1.6 million of the \$2.6 million General Fund interfund receivable is due to temporary borrowing by the General Obligation Bonds Fund, Dedicated Sales Tax Revenue Bonds Fund, Senior Program Fund, and Fleet Management Fund to offset temporary cash deficit positions at June 30, 2018. About \$0.8 million is due to an advance to the Development Fees Fund to pay debt service on debt-financed capital projects where development fees have been pledged to repay the debt, but where insufficient development fees have been collected to service the debt. All other interfund receivables and payables were routine in nature.

Interfund activity for the year ended June 30, 2018, primarily consisted of the following transfers:

General Fund transfers included about \$5.7 million to the Development Fees Fund to finance various street construction projects, as well as city parks, library, and public safety facilities enhancement and improvement projects; about \$10.4 million to the Other Capital Projects Fund for the Resource Center construction and other facility and pedestrian walkway improvements; about \$1.5 million to the Vehicle Replacement Fund and Equipment Replacement Fund to accumulate reserves for the future replacement of vehicles and equipment; about \$0.5 million to the Transit Fund for improving and maintaining transit operations; about \$0.7 million to finance grant and community- related programs; and \$0.4 million to debt service funds to service debt.

Dedicated Sales Tax Revenue Fund transfers included \$5.2 million to debt service funds to service debt, \$0.75 million to the Development Fees Fund to finance various street construction projects, \$0.4 million to the Transit Fund to finance Transit Center land improvements, and about \$0.15 million to the Sewer Fund to finance citywide sewer improvements.

Public Safety Sales Tax Revenue Fund transfers include about \$0.02 million to emergency vehicle equipment purchases, and about \$0.35 million to the Vehicle Replacement Fund and Equipment Replacement Fund to accumulate reserves for the future replacement of vehicles and equipment.

Development Fees Fund transfers included about \$5.7 million from the General Fund and about \$1.0 million from other governmental funds to finance various capital projects including citywide street maintenance and improvements, bridge repairs, and streetlight improvements; police facility and fire safety improvements; and enhancements to the City's Festival Fields Park, and other community restorations. About \$0.3 million was transferred to debt service funds to service debt.

Nonmajor Governmental Funds transfers included \$0.4 million from the General Fund, about \$5.2 million from the Dedicated Sales Tax Revenue Fund, about \$0.3 million from the Development Fees Fund, and about \$0.2 million from the Debt Service Fund and other governmental funds for debt service; about \$10.4 million from the General Fund and Development Fees Fund to finance various capital projects; about \$0.7 million from the General Fund, about \$0.3 million from the Public Safety Dedicated Sales Tax fund, and about \$0.3 Million from

CITY OF AVONDALE, ARIZONA
NOTES TO FINANCIAL STATEMENTS
JUNE 30, 2018

other governmental funds to accumulate reserves for the future replacement of city vehicles; about \$0.7 million from the General Fund, about \$0.2 million from the Public Safety Dedicated Sales Tax fund and other governmental funds for equipment replacement; and about \$1.2 million from the General Fund and \$0.4 million from the Dedicated Sales Tax fund for grant and community-related programs. About \$0.2 million was transferred from other governmental funds to service debt; about \$0.2 million to the Development Fee Fund for street construction; and about \$0.4 million to the Vehicle and Equipment Replacement Funds.

Enterprise Funds transfers included \$0.73 million of long-term water storage credits inventory from the Wastewater Fund to the Water Fund for long-term storage credits credited to the City's long-term storage account by the Arizona Department of Water Resources for effluent water the City recharged and stored in the Phoenix Active Management Area.

All other transfers between funds were routine in nature and consistent with the fund making the transfer. Interfund transfers for the year ended June 30, 2018, were as follows:

Fund	Transfers In	Transfers Out
Governmental funds:		
General Fund	\$ -	\$ (19,183,060)
Dedicated Sales Tax Revenue Fund	-	(6,500,000)
Public Safety Sales Tax Revenue Fund	-	(372,555)
Development Fees Fund	6,711,953	(334,676)
Nonmajor Governmental Funds	20,333,990	(795,922)
Total governmental funds	27,045,943	(27,186,213)
Enterprise funds:		
Water Fund	725,672	-
Wastewater Fund	189,209	(764,881)
Total enterprise funds	914,881	(764,881)
Internal service funds:	-	(9,730)
Grand total	\$ 27,960,824	\$ (27,960,824)

NOTE 11 – SELF-INSURANCE

The City is exposed to various risks of loss and administers and accounts for these risks in the Self-insurance Fund, which is an internal service fund.

In fiscal year 2005, the City established a self-insurance fund to manage losses related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The City is self-insured for the first \$500,000 of any general liability and automobile liability occurrence and purchases commercial insurance to protect from losses in excess of \$500,000. The excess commercial insurance coverages and limits follow:

Coverage	Limit
Property and Boiler & Machinery	\$ 166,089,000
Public Entity/Excess Liability	25,500,000
Crime	2,000,000
Privacy/Network Liability (Cyber)	5,000,000
Environmental Liability	2,000,000

CITY OF AVONDALE, ARIZONA
NOTES TO FINANCIAL STATEMENTS
JUNE 30, 2018

The City workers' compensation insurance was carried through the Arizona Municipal Workers' Compensation Pool until June 30, 2018. Beginning July 1, 2018, the City is self-insured against workers' compensation claims. The City is self-insured for the first \$1.0 million for wildland team firefighters and \$500,000 for all other employees. The excess commercial insurance coverage limits are \$1.0 million per occurrence and aggregate and \$2.0 million for the liability period.

The City retains all risks not covered by commercial insurance carriers and the Pool and has effectively managed risk through various employee education and prevention programs. There have not been any losses in excess of the coverages provided by the Self-insurance Fund since its inception.

Funds receiving insurance coverage pay monthly premiums to the self-insurance fund based upon a budget model taking into consideration actuarial analysis and projections, prior loss experience, staffing, and operating budget.

Premium payments to insurance carriers, loss control, and self-insurance expenses are made directly from the Self-insurance Fund.

Based on information provided by the actuary, claims liabilities are reported when it is probable that a loss has occurred and the amount of the loss can be reasonably estimated. Claims liabilities include case reserves, the development of known claims, claims that have been incurred but not reported, and allocated loss adjustment expenses. The claims liabilities consider the effects of inflation, claims settlement trends, such as frequency and severity, and other factors. These liabilities are limited to the self-funded retention and deductibles.

Changes in the balances of claims liabilities during the past two years follows:

	<u>2018</u>	<u>2017</u>
Beginning balance at July 1	\$757,947	\$703,998
Current year claims and changes		
in estimates	925,844	920,439
Claim payments	(748,759)	(866,490)
Ending balance at June 30	<u>\$935,032</u>	<u>\$757,947</u>

NOTE 12 – CONTINGENCIES, COMMITMENTS AND OTHER CLAIMS

Litigation—The City is in litigation arising in the ordinary course of its operations. The City believes that the liability, if any, in connection with these matters will not have a material adverse effect on the City's financial position, changes in financial position, or liquidity.

Federal and State Grants—The City received grants from both the federal and state governments during the year ended June 30, 2018, and some grants have been audited as of June 30, 2018. The City expects no material disallowance of expenditures.

Contractual Commitments—The City had major contractual commitments related to various capital projects at June 30, 2018. As of June 30, 2018, the City had spent \$18,919,525 on these projects and had remaining contractual commitments with contractors of \$9,512,112. These projects are being financed from development fees, bond proceeds, intergovernmental revenues, operating and capital grants, and general operating fund balances.

CITY OF AVONDALE, ARIZONA
NOTES TO FINANCIAL STATEMENTS
JUNE 30, 2018

The project categories and remaining commitments at June 30, 2018, follow.

	Balance
Street construction and improvements	\$ 2,067,609
Park enhancements and Improvements	249,747
Fire station improvements	365,696
One-time projects	45,991
Wastewater system construction and improvements	3,368,489
Water system construction and improvements	3,414,580
Total	<u><u>\$ 9,512,112</u></u>

NOTE 13 - OPERATING LEASES

The City jointly operates and funds the Southwest Family Advocacy Center (SWFAC) with the Avondale, Buckeye and Goodyear Police Departments and the Maricopa County Sheriff's Office. The City leases SWFAC office space under the provisions of a long-term lease agreement classified as an operating lease for accounting purposes. Rental expenditures under the terms of the operating lease were \$368,926 for the year ended June 30, 2018. The following future minimum payments were required under the operating lease at June 30, 2018:

<u>Year Ending June 30</u>	<u>Amount</u>
2019	\$ 387,792
2020	387,792
2021	406,932
2022	406,932
2023	426,084
2024-2026	<u>1,316,556</u>
Total	<u><u>\$ 3,332,088</u></u>

NOTE 14 – JOINT VENTURES

The City participates in the Regional Wireless Cooperative (RWC), an Arizona joint venture, multi-jurisdictional organization formed in 2008 to oversee the construction, operation, and maintenance of a regional communications network. The regional communications network was built to seamlessly serve the interoperable communication needs of first responders and other municipal radio users in and around the Phoenix Metropolitan Region. All members share ongoing financial responsibilities based on their relative size, which is measured by the number of subscriber units (radios) on the network. Currently, the City of Phoenix is responsible for the day-to-day operations and maintenance of the network, as well as the management of the RWC's organization and finances.

The City records its share of equity in the joint venture in the government-wide financial statements. The City's equity balance as of June 30, 2018, was \$588,722, or 0.78 percent of the RWC's total net position.

The RWC Comprehensive Annual Financial Report is available from the Regional Wireless Cooperative, 200 West Washington Street, 12th Floor, Phoenix, Arizona, 85003.

CITY OF AVONDALE, ARIZONA
NOTES TO FINANCIAL STATEMENTS
JUNE 30, 2018

NOTE 15 – CORRECTION OF A MISSTATEMENT—PRIOR-PERIOD ADJUSTMENT

Net position as of July 1, 2017, has been restated as follows for the correction of a misstatement that resulted from the City not recording the value of prior years' long-term storage credits credited to the City's long-term storage account by the Arizona Department of Water Resources. The long-term storage credits are presented as long-term inventory in the government-wide and proprietary fund financial statements.

	Business-type Activities	Water Fund
Net Position as previously reported at June 30, 2017	\$ 519,696,122	\$ 272,005,994
Prior period adjustment—reporting of long-term water storage credits inventory	<u>10,120,181</u>	<u>10,120,181</u>
Net Position as restated, July 1, 2017	<u><u>\$ 529,816,303</u></u>	<u><u>\$ 282,126,175</u></u>

OTHER REQUIRED SUPPLEMENTARY INFORMATION

CITY OF AVONDALE, ARIZONA
REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF THE CITY'S PROPORTIONATE SHARE OF THE NET PENSION LIABILITY—
COST-SHARING PLANS
JUNE 30, 2018

ASRS	Reporting Fiscal Year (Measurement Date)				2014 through 2009
	2018 (2017)	2017 (2016)	2016 (2015)	2015 (2014)	
City's proportion of the net pension liability	0.210820%	0.209877%	0.203704%	0.200048%	Information not available
City's proportionate share of the net pension liability	\$ 32,841,652	\$ 33,876,740	\$ 31,729,753	\$ 29,600,287	
City's covered payroll	\$ 20,721,364	\$ 19,651,484	\$ 18,779,494	\$ 18,032,916	
City's proportionate share of the net pension liability as a percentage of its covered payroll	158.49%	172.39%	168.96%	164.69%	
Plan fiduciary net position as a percentage of the total pension liability	69.92%	67.06%	68.35%	69.49%	

EORP	Reporting Fiscal Year (Measurement Date)				2014 through 2009
	2018 (2017)	2017 (2016)	2016 (2015)	2015 (2014)	
City's proportion of the net pension liability	0.077777%	0.070903%	0.065092%	0.089955%	Information not available
City's proportionate share of the net pension liability	\$ 1,038,960	\$ 669,853	\$ 508,659	\$ 603,211	
City's covered payroll	\$ 67,664	\$ 58,272	\$ 24,768	\$ 51,188	
City's proportionate share of the net pension liability as a percentage of its covered payroll	1535.47%	1149.52%	2053.73%	951.08%	
Plan fiduciary net position as a percentage of the total pension liability	19.66%	23.42%	28.32%	31.91%	

See accompanying notes to the pension schedules.

CITY OF AVONDALE, ARIZONA
REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF CHANGES IN THE CITY'S NET PENSION LIABILITY AND RELATED RATIOS—
AGENT PLANS
JUNE 30, 2018

PSPRS Police	Reporting Fiscal Year (Measurement Date)				2014 through 2009
	2018 (2017)	2017 (2016)	2016 (2015)	2015 (2014)	
Total pension liability					Information not available
Service cost	\$ 1,976,541	\$ 1,525,046	\$ 1,415,787	\$ 1,331,141	
Interest on the total pension liability	2,821,376	2,457,622	2,231,813	1,846,508	
Changes of benefit terms	381,272	2,654,715	-	295,006	
Differences between expected and actual experience in the measurement of the pension liability	966,425	(894,754)	367,549	380,206	
Changes of assumptions or other inputs	771,117	1,538,022		2,093,103	
Benefit payments, including refunds of employee contributions	(1,129,451)	(1,261,226)	(1,125,230)	(1,034,663)	
Net change in total pension liability	5,787,280	6,019,425	2,889,919	4,911,301	
Total pension liability—beginning	37,194,800	31,175,375	28,285,456	23,374,155	
Total pension liability—ending (a)	<u>\$42,982,080</u>	<u>\$37,194,800</u>	<u>\$31,175,375</u>	<u>\$28,285,456</u>	
Plan fiduciary net position					
Contributions—employer	\$ 1,823,389	\$ 1,683,672	\$ 1,318,663	\$ 1,232,188	
Contributions—employee	976,415	932,789	861,574	743,958	
Net investment income	2,570,277	118,764	689,299	2,121,707	
Benefit payments, including refunds of employee contributions	(1,129,451)	(1,261,226)	(1,125,230)	(1,034,663)	
Administrative expense	(23,143)	(17,489)	(17,204)	(3,445)	
Other changes	21,812	(380,099)	1,164	(472,452)	
Net change in plan fiduciary net position	4,239,299	1,076,411	1,728,266	2,587,293	
Plan fiduciary net position—beginning	21,046,785	19,970,374	18,242,108	15,654,815	
Plan fiduciary net position—ending (b)	<u>\$25,286,084</u>	<u>\$21,046,785</u>	<u>\$19,970,374</u>	<u>\$18,242,108</u>	
City's net pension liability—ending (a) – (b)	<u>\$17,695,996</u>	<u>\$16,148,015</u>	<u>\$11,205,001</u>	<u>\$10,043,348</u>	
Plan fiduciary net position as a percentage of the total pension liability	58.83%	56.59%	64.06%	64.49%	
Covered payroll	\$ 8,903,336	\$ 8,099,025	\$ 7,704,528	\$ 7,503,472	
City's net pension liability as a percentage of covered payroll	198.76%	199.38%	145.43%	133.85%	

See accompanying notes to the pension schedules.

CITY OF AVONDALE, ARIZONA
REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF CHANGES IN THE CITY'S NET PENSION LIABILITY AND RELATED RATIOS—
AGENT PLANS
JUNE 30, 2018

PSPRS Fire	Reporting Fiscal Year (Measurement Date)				2014 through 2009
	2018 (2017)	2017 (2016)	2016 (2015)	2015 (2014)	
Total pension liability					Information not available
Service cost	\$ 1,296,498	\$ 1,059,427	\$ 980,484	\$ 837,218	
Interest on the total pension liability	2,098,727	1,702,937	1,544,325	1,312,216	
Changes of benefit terms	170,572	2,475,378	-	106,903	
Differences between expected and actual experience in the measurement of the pension liability	(55,836)	216,529	(131,687)	50,110	
Changes of assumptions or other inputs	303,190	1,109,853	-	932,687	
Benefit payments, including refunds of employee contributions	(317,165)	(469,042)	(355,057)	(352,875)	
Net change in total pension liability	3,495,986	6,095,082	2,038,065	2,886,259	
Total pension liability—beginning	27,493,358	21,398,276	19,360,211	16,473,952	
Total pension liability—ending (a)	<u>\$30,989,344</u>	<u>\$27,493,358</u>	<u>\$21,398,276</u>	<u>\$19,360,211</u>	
Plan fiduciary net position					
Contributions—employer	\$ 955,224	\$ 940,588	\$ 851,284	\$ 769,757	
Contributions—employee	642,054	729,183	597,484	506,808	
Net investment income	2,229,110	102,392	585,392	1,788,115	
Benefit payments, including refunds of employee contributions	(317,165)	(469,042)	(355,057)	(352,875)	
Administrative expense	(20,124)	(15,135)	(14,673)	(2,904)	
Other changes	2,937	(84,529)	(8,867)	(254,889)	
Net change in plan fiduciary net position	3,492,036	1,203,457	1,655,563	2,454,012	
Plan fiduciary net position—beginning	18,369,711	17,166,254	15,510,691	13,056,679	
Plan fiduciary net position—ending (b)	<u>\$21,861,747</u>	<u>\$18,369,711</u>	<u>\$17,166,254</u>	<u>\$15,510,691</u>	
City's net pension liability—ending (a) – (b)	<u>\$ 9,127,597</u>	<u>\$ 9,123,647</u>	<u>\$ 4,232,022</u>	<u>\$ 3,849,520</u>	
Plan fiduciary net position as a percentage of the total pension liability	70.55%	66.82%	80.22%	80.12%	
Covered payroll	\$ 5,659,091	\$ 5,500,657	\$ 5,207,816	\$ 5,123,433	
City's net pension liability as a percentage of covered payroll	161.29%	165.86%	81.26%	75.14%	

See accompanying notes to the pension schedules.

CITY OF AVONDALE, ARIZONA
REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF CHANGES IN THE CITY'S NET PENSION LIABILITY AND RELATED RATIOS—
AGENT PLANS
JUNE 30, 2018

PSPRS CORP Detention	Reporting Fiscal Year (Measurement Date)				2014 through 2009
	2018 (2017)	2017 (2016)	2016 (2015)	2015 (2014)	
Total pension liability					Information not available
Service cost	\$ 83,184	\$ 81,362	\$ 67,896	\$ 84,194	
Interest on the total pension liability	142,787	119,176	111,733	99,341	
Changes of benefit terms	435,594	4,546	-	-	
Differences between expected and actual experience in the measurement of the pension liability	(74,623)	134,537	(48,157)	(55,439)	
Changes of assumptions or other inputs	(7,330)	88,502	-	49,490	
Benefit payments, including refunds of employee contributions	(11,584)	(75,176)	(11,584)	(11,584)	
Net change in total pension liability	568,028	352,947	119,888	166,002	
Total pension liability—beginning	1,868,023	1,515,076	1,395,188	1,229,186	
Total pension liability—ending (a)	<u>\$2,436,051</u>	<u>\$1,868,023</u>	<u>\$1,515,076</u>	<u>\$1,395,188</u>	
Plan fiduciary net position					
Contributions—employer	\$ 58,239	\$ 58,915	\$ 49,425	\$ 46,842	
Contributions—employee	46,645	43,964	44,647	42,178	
Net investment income	154,274	7,365	40,330	118,520	
Benefit payments, including refunds of employee contributions	(11,584)	(75,176)	(11,584)	(11,584)	
Administrative expense	(1,750)	(1,441)	(1,388)	(188)	
Other changes	(7)	41,590	18,745	(16,909)	
Net change in plan fiduciary net position	245,817	75,217	140,175	178,859	
Plan fiduciary net position—beginning	1,254,350	1,179,133	1,038,958	860,099	
Plan fiduciary net position—ending (b)	<u>\$1,500,167</u>	<u>\$1,254,350</u>	<u>\$1,179,133</u>	<u>\$1,038,958</u>	
City's net pension liability—ending (a) – (b)	<u>\$ 935,884</u>	<u>\$ 613,673</u>	<u>\$ 335,943</u>	<u>\$ 356,230</u>	
Plan fiduciary net position as a percentage of the total pension liability	61.58%	67.15%	77.83%	74.47%	
Covered payroll	\$ 521,530	\$ 547,891	\$ 480,078	\$ 474,630	
City's net pension liability as a percentage of covered payroll	179.45%	112.01%	69.98%	75.05%	

See accompanying notes to the pension schedules.

CITY OF AVONDALE, ARIZONA
REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF CITY PENSION CONTRIBUTIONS
JUNE 30, 2018

ASRS

	Reporting Fiscal Year					2013 through 2009
	2018	2017	2016	2015	2014	
Statutorily required contribution	\$ 2,414,489	\$ 2,233,763	\$ 2,132,186	\$ 2,043,209	\$ 1,929,522	Information not available
City's contributions in relation to the statutorily required contribution	2,414,489	2,233,763	2,132,186	2,043,209	1,929,522	
City's contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	
City's covered payroll	\$ 22,151,275	\$ 20,721,364	\$ 19,651,484	\$ 18,779,494	\$ 18,032,916	
City's contributions as a percentage of covered payroll	10.90%	10.78%	10.85%	10.88%	10.70%	

PSPRS Police

	Reporting Fiscal Year					2013 through 2009
	2018	2017	2016	2015	2014	
Statutorily required contribution	\$ 2,452,912	\$ 1,823,389	\$ 1,683,672	\$ 1,318,663	\$ 1,232,188	Information not available
City's contributions in relation to the statutorily required contribution	1,485,625	1,823,389	1,683,672	1,318,663	1,232,188	
City's contribution deficiency (excess)	<u>\$ 967,287</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	
City's covered payroll	\$ 9,101,838	\$ 8,903,336	\$ 8,099,025	\$ 7,704,528	\$ 7,503,472	
City's contributions as a percentage of covered payroll	16.32%	20.48%	20.79%	17.12%	16.42%	

PSPRS Fire

	Reporting Fiscal Year					2013 through 2009
	2018	2017	2016	2015	2014	
Statutorily required contribution	\$ 1,391,519	\$ 955,224	\$ 940,588	\$ 851,284	\$ 769,757	Information not available
City's contributions in relation to the statutorily required contribution	581,486	955,224	940,588	851,284	769,757	
City's contribution deficiency (excess)	<u>\$ 810,033</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	
City's covered payroll	\$ 5,507,422	\$ 5,659,091	\$ 5,500,657	\$ 5,207,816	\$ 5,123,433	
City's contributions as a percentage of covered payroll	10.56%	16.88%	17.10%	16.35%	15.02%	

See accompanying notes to the pension schedules.

CITY OF AVONDALE, ARIZONA
REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF CITY PENSION CONTRIBUTIONS
JUNE 30, 2018

PSPRS CORP Detention—Pension

	Reporting Fiscal Year					2013 through 2009
	2018	2017	2016	2015	2014	
Statutorily required contribution	\$ 76,431	\$ 58,239	\$ 58,915	\$ 49,425	\$ 46,842	Information not available
City's contributions in relation to the statutorily required contribution	76,431	58,239	58,915	49,425	46,842	
City's contribution deficiency (excess)	\$ -	\$ -	\$ -	\$ -	\$ -	
City's covered payroll	\$ 556,672	\$ 521,530	\$ 547,891	\$ 480,078	\$ 474,630	
City's contributions as a percentage of covered payroll	13.73%	11.17%	10.75%	10.30%	9.87%	

EORP—Pension

	Reporting Fiscal Year					2013 through 2009
	2018	2017	2016	2015	2014	
Statutorily required contribution	\$ 12,529	\$ 15,901	\$ 13,694	\$ 13,694	\$ 19,482	Information not available
City's contributions in relation to the statutorily required contribution	-	15,901	13,694	13,694	19,482	
City's contribution deficiency (excess)	\$ 12,529	\$ -	\$ -	\$ -	\$ -	
City's covered payroll	\$ 53,315	\$ 67,664	\$ 58,272	\$ 24,768	\$ 51,188	
City's contributions as a percentage of covered payroll	0.00%	23.50%	23.50%	55.29%	38.06%	

See accompanying notes to the pension schedules.

CITY OF AVONDALE, ARIZONA
REQUIRED SUPPLEMENTARY INFORMATION
NOTES TO PENSION/OPEB PLAN SCHEDULES
JUNE 30, 2018

NOTE 1 - ACTUARIALLY DETERMINED CONTRIBUTION RATES

Actuarial determined contribution rates for PSPRS and CORP are calculated as of June 30 two years prior to the end of the fiscal year in which contributions are made. The actuarial methods and assumptions used to establish the contribution requirements are as follows:

Actuarial cost method	Entry age normal
Amortization method	Level percent-of-pay, closed
Remaining amortization period as of the 2016 actuarial valuation	21 years
Asset valuation method	7-year smoothed market value; 80%/120% market corridor
Actuarial assumptions:	
Investment rate of return	In the 2016 actuarial valuation, the investment rate of return was decreased from 7.85% to 7.5%. In the 2013 actuarial valuation, the investment rate of return was decreased from 8.0% to 7.85%.
Projected salary increases	In the 2014 actuarial valuation, projected salary increases were decreased from 4.5%-8.5% to 4.0%-8.0% for PSPRS and from 4.5%-7.75% to 4.0%-7.25% for CORP. In the 2013 actuarial valuation, projected salary increases were decreased from 5.0%-9.0% to 4.5%-8.5% for PSPRS and from 5.0%-8.25% to 4.5%-7.75% for CORP.
Wage growth	In the 2014 actuarial valuation, wage growth was decreased from 4.5% to 4.0% for PSPRS and CORP. In the 2013 actuarial valuation, wage growth was decreased from 5.0% to 4.5% for PSPRS and CORP.
Retirement age	Experience-based table of rates that is specific to the type of eligibility condition. Last updated for the 2012 valuation pursuant to an experience study of the period July 1, 2006 - June 30, 2011.
Mortality	RP-2000 mortality table (adjusted by 105% for both males and females)

CITY OF AVONDALE, ARIZONA
REQUIRED SUPPLEMENTARY INFORMATION
NOTES TO PENSION/OPEB PLAN SCHEDULES

NOTE 2 - FACTORS THAT AFFECT TRENDS

Arizona courts have ruled that provisions of a 2011 law that changed the mechanism for funding permanent pension benefit increases and increased employee pension contribution rates were unconstitutional or a breach of contract because those provisions apply to individuals who were members as of the law's effective date. As a result, the PSPRS, CORP, CORP-AOC, and EORP changed benefit terms to reflect the prior mechanism for funding permanent benefit increases for those members and revised actuarial assumptions to explicitly value future permanent benefit increases. PSPRS and EORP also reduced those members' employee contribution rates. These changes are reflected in the plans' pension liabilities for fiscal year 2015 (measurement date 2014) for members who were retired as of the law's effective date and fiscal year 2018 (measurement date 2017) for members who retired or will retire after the law's effective date. These changes also increased the PSPRS-, CORP-, and CORP-AOC-required pension contributions beginning in fiscal year 2016 for members who were retired as of the law's effective date. These changes will increase the PSPRS-, CORP-, and CORP-AOC required contributions beginning in fiscal year 2019 for members who retired or will retire after the law's effective date. EORP-required contributions are not based on actuarial valuations, and therefore, these changes did not affect them. Also, the City refunded excess employee contributions to PSPRS and EORP members. PSPRS and EORP allowed the City to reduce its actual employer contributions for the refund amounts. As a result, the City's pension contributions were less than the actuarially or statutorily determined contributions for 2018.



SUPPLEMENTARY INFORMATION

Major Governmental Funds Budgetary Comparison Schedules

CITY OF AVONDALE, ARIZONA

SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL

DEVELOPMENT FEES FUND

YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Licenses and permits	\$ 3,132,099	\$ 3,132,099	\$ 4,166,268	\$ 1,034,169
Intergovernmental	771,200	771,200	126,849	(644,351)
Investment income	15,700	15,700	126,881	111,181
Miscellaneous	-	-	116,906	116,906
Total revenues	<u>3,918,999</u>	<u>3,918,999</u>	<u>4,536,904</u>	<u>617,905</u>
Expenditures				
Current:				
Public safety	-	-	22,302	(22,302)
Highways and streets	-	-	1,357,184	(1,357,184)
Culture and recreation	-	-	56,252	(56,252)
Capital outlay	24,907,700	24,838,138	8,053,026	16,785,112
Total expenditures	<u>24,907,700</u>	<u>24,838,138</u>	<u>9,488,764</u>	<u>15,349,374</u>
Excess (deficiency) of revenues over (under) expenditures	<u>(20,988,701)</u>	<u>(20,919,139)</u>	<u>(4,951,860)</u>	<u>15,967,279</u>
Other financing sources (uses)				
Bonds issued	7,000,000	7,000,000	-	(7,000,000)
Capital leases	-	-	1,864,946	1,864,946
Sale of capital assets	-	-	348,097	348,097
Transfers in	6,775,000	6,775,000	6,711,953	(63,047)
Transfers out	(302,950)	(302,950)	(334,676)	(31,726)
Total other financing sources (uses)	<u>13,472,050</u>	<u>13,472,050</u>	<u>8,590,320</u>	<u>(4,881,730)</u>
Net change in fund balance	(7,516,651)	(7,447,089)	3,638,460	11,085,549
Fund balance, July 1, 2017	<u>9,775,051</u>	<u>9,775,051</u>	<u>5,482,067</u>	<u>(4,292,984)</u>
Fund balance, June 30, 2018	<u>\$ 2,258,400</u>	<u>\$ 2,327,962</u>	<u>\$ 9,120,527</u>	<u>\$ 6,792,565</u>

SUPPLEMENTARY INFORMATION

Nonmajor Governmental Funds Combining Financial Statements

Special Revenue Funds

Highway User Revenue Fund accounts for excise fuel taxes and other fees and charges relating to the registration and operation of motor vehicles on the public highways of the State. These revenues are distributed to cities and towns based on a formula. A constitutional provision requires that these revenues be used for highway and street purposes.

Local Transportation Assistance Fund accounts for transit grants that provide resources to support public transportation services. This fund also accounts for special distributions of state lottery monies that are restricted for transit-related projects and programs.

Senior Programs Fund accounts for senior services provided to senior citizens within the community. These services are funded mainly by federal and state programs that provide resources to preserve and promote nutrition and health, prevent and reduce the risk of chronic diseases, and to promote and maintain independence and independent living.

Judicial Collection Enhancement Fund accounts for resources required to improve, maintain, and enhance the ability to collect and manage monies assessed or received by the City Court including restitution, child support, fines and civil penalties, as well as to improve court automation projects likely to improve case processing or the administration of justice.

Grants-in-Aid Fund accounts for grant funding and private donations and contributions for specific purposes not accounted for in other special revenue funds.

Family Advocacy Center Fund accounts for resources to operate the Southwest Family Advocacy Center which provides services to victims of domestic violence and other crimes. The City jointly funds and administers the Center with the municipalities and police departments of Avondale, Buckeye, Goodyear, and the Maricopa County Sheriff's Office through the County of Maricopa.

Environmental Fees Fund accounts for environment fees collected and spent by the City to administer and enforce environmental programs such as the National Pollutant Discharge Elimination System Program and Particulate Matter Program.

Capital Projects Funds

Vehicle Replacement Fund accounts for reserves set aside for the replacement of city vehicles other than those vehicles used in the City's enterprise activities. A consistent methodology is used to accumulate replacement reserves for operating department vehicle replacement needs. Vehicles are assigned replacement values and estimated useful lives. Operating departments are then charged annual replacement charges such that the replacement reserves are available upon retirement of the vehicles.

Equipment Replacement Fund accounts for reserves set aside for the replacement of city technology equipment other than equipment used in the City's enterprise activities. A consistent methodology is used to accumulate replacement reserves for operating department replacement needs. Equipment is assigned replacement values and estimated useful lives. Operating departments are then charged annual replacement charges such that the replacement reserves are available upon retirement of the equipment.

Other Capital Projects accounts for capital resources and activities not accounted for in other capital project funds.

Debt Service Funds

General Obligation Bonds Fund accounts for the accumulation of resources and payment of principal and interest on the City's general obligation bonds. The principal and interest on general obligation bonds is normally paid with revenues generated from the secondary property tax levy sufficient to make required debt service payments.

Highway User Revenue Bonds Fund accounts for the accumulation of resources and payment of principal and interest on the City's street and highway revenue bonds. The City has pledged excise fuel taxes to make the required debt service payments.

Dedicated Sales Tax Revenue Bonds Fund accounts for the accumulation of resources and payment of principal and interest on MDC revenue bonds and pledged revenue refunding obligations issued by the City. The City has pledged the voter-approved 0.5-cent sales tax revenues and general excise taxes to make the required debt services payments.

Other Debt Service Fund accounts for the accumulation of resources and payment of principal and interest on the City's general long-term bond indebtedness not accounted for in the other debt service funds. The City has pledged its general excise taxes to make the required debt service payments.

CITY OF AVONDALE, ARIZONA
COMBINING BALANCE SHEET
NONMAJOR GOVERNMENTAL FUNDS
JUNE 30, 2018

	Special Revenue Funds				
	Highway User Revenue	Local Transportation Assistance	Senior Programs	Judicial Collection Enhancement	Grants-In-Aid
ASSETS					
Cash and cash equivalents	\$ 6,442,222	\$ 1,761,534	\$ -	\$ 637,539	\$ 1,846,773
Investments	1,917,643	-	-	-	-
Receivables:					
Taxes	-	-	-	-	-
Accounts	-	-	56,739	-	4,359
Interest	8,854	-	-	-	-
Due from other governments	487,081	74,430	-	2,317	530,027
Inventories	251,546	16,052	-	-	-
Prepaid items	862	1,173	-	-	74
Restricted cash with fiscal agents	-	-	-	-	-
Total assets	<u>\$ 9,108,208</u>	<u>\$ 1,853,189</u>	<u>\$ 56,739</u>	<u>\$ 639,856</u>	<u>\$ 2,381,233</u>
LIABILITIES					
Accounts payable	94,297	\$ 6,832	\$ 6,382	\$ 64,068	\$ 38,306
Accrued payroll and employee benefits	-	2,657	7,478	-	71,701
Accrued liabilities	-	-	-	-	-
Construction contracts payable	-	-	-	-	4,665
Deposits held for others	-	-	-	-	21,875
Due to other governments	20,800	-	-	-	39
Due to other funds	704	-	97,481	-	12,518
Total liabilities	<u>115,801</u>	<u>9,489</u>	<u>111,341</u>	<u>64,068</u>	<u>149,104</u>
DEFERRED INFLOWS OF RESOURCES					
Unavailable revenue - property taxes	-	-	-	-	-
Unavailable revenue - other	-	74,430	-	-	448,982
Total deferred inflows of resources	<u>-</u>	<u>74,430</u>	<u>-</u>	<u>-</u>	<u>448,982</u>
FUND BALANCES					
Nonspendable	252,408	17,225	-	-	74
Restricted	8,739,999	1,752,045	22,888	575,788	1,783,073
Committed	-	-	-	-	-
Assigned	-	-	-	-	-
Unassigned	-	-	(77,490)	-	-
Total fund balances (deficits)	<u>8,992,407</u>	<u>1,769,270</u>	<u>(54,602)</u>	<u>575,788</u>	<u>1,783,147</u>
Total liabilities, deferred inflows of resources, and fund balances	<u>\$ 9,108,208</u>	<u>\$ 1,853,189</u>	<u>\$ 56,739</u>	<u>\$ 639,856</u>	<u>\$ 2,381,233</u>

(continued on next page)

CITY OF AVONDALE, ARIZONA
COMBINING BALANCE SHEET
NONMAJOR GOVERNMENTAL FUNDS
JUNE 30, 2018

	Special Revenue Funds		Capital Projects Funds		
	Family Advocacy Center	Environmental Fees	Vehicle Replacement	Equipment Replacement	Other Capital Projects
ASSETS					
Cash and cash equivalents	\$ 86,896	\$ 817,759	\$ 3,003,397	\$ 1,436,658	\$ 12,078,252
Investments	-	-	5,098,705	-	-
Receivables:					
Taxes	-	-	-	-	-
Accounts	-	45,724	-	-	4,970
Interest	-	-	18,247	-	-
Due from other governments	208,509	-	-	-	-
Inventories	-	-	-	-	-
Prepaid items	4,201	-	-	-	-
Restricted cash with fiscal agents	-	-	-	-	-
Total assets	<u>\$ 299,606</u>	<u>\$ 863,483</u>	<u>\$ 8,120,349</u>	<u>\$ 1,436,658</u>	<u>\$ 12,083,222</u>
LIABILITIES					
Accounts payable	\$ 4,643	\$ 7,807	\$ 140,734	\$ 138,173	\$ 70,919
Accrued payroll and employee benefits	16,882	-	-	-	-
Accrued liabilities	-	-	-	-	-
Construction contracts payable	-	-	-	-	-
Deposits held for others	-	-	-	-	-
Due to other governments	-	-	-	-	-
Due to other funds	-	-	-	-	-
Total liabilities	<u>21,525</u>	<u>7,807</u>	<u>140,734</u>	<u>138,173</u>	<u>70,919</u>
DEFERRED INFLOWS OF RESOURCES					
Unavailable revenue - property taxes	-	-	-	-	-
Unavailable revenue - other	65,608	-	-	-	-
Total deferred inflows of resources	<u>65,608</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
FUND BALANCES					
Nonspendable	4,201	-	-	-	-
Restricted	156,204	855,676	-	-	1,486,785
Committed	52,068	-	-	-	31,446
Assigned	-	-	7,979,615	1,298,485	10,494,072
Unassigned	-	-	-	-	-
Total fund balances (deficits)	<u>212,473</u>	<u>855,676</u>	<u>7,979,615</u>	<u>1,298,485</u>	<u>12,012,303</u>
Total liabilities, deferred inflows of resources, and fund balances	<u>\$ 299,606</u>	<u>\$ 863,483</u>	<u>\$ 8,120,349</u>	<u>\$ 1,436,658</u>	<u>\$ 12,083,222</u>

Debt Service Funds				
General Obligation Bonds	Highway User Revenue Bonds	Dedicated Sales Tax Revenue Bonds	Other Debt Service	Total Nonmajor Governmental Funds
\$ -	\$ 138,762	\$ -	\$ 1,128,477	\$ 29,378,269
-	-	-	-	7,016,348
71,329	-	-	-	71,329
-	-	-	-	111,792
-	-	1,571	-	28,672
-	-	-	-	1,302,364
-	-	-	-	267,598
-	-	-	-	6,310
3,232,352	-	5,249,004	264,527	8,745,883
<u>\$ 3,303,681</u>	<u>\$ 138,762</u>	<u>\$ 5,250,575</u>	<u>\$ 1,393,004</u>	<u>\$ 46,928,565</u>
\$ -	\$ -	\$ -	\$ -	\$ 572,161
-	-	-	-	98,718
438,689	-	504,876	26,180	969,745
-	-	-	-	4,665
-	-	-	-	21,875
-	-	-	-	20,839
667,674	-	810,795	-	1,589,172
<u>1,106,363</u>	<u>-</u>	<u>1,315,671</u>	<u>26,180</u>	<u>3,277,175</u>
39,019	-	-	-	39,019
-	-	-	-	589,020
<u>39,019</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>628,039</u>
-	-	-	-	273,908
2,158,299	138,762	3,934,904	1,366,824	22,971,247
-	-	-	-	83,514
-	-	-	-	19,772,172
-	-	-	-	(77,490)
<u>2,158,299</u>	<u>138,762</u>	<u>3,934,904</u>	<u>1,366,824</u>	<u>43,023,351</u>
<u>\$ 3,303,681</u>	<u>\$ 138,762</u>	<u>\$ 5,250,575</u>	<u>\$ 1,393,004</u>	<u>\$ 46,928,565</u>



CITY OF AVONDALE, ARIZONA
COMBINING STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES
NONMAJOR GOVERNMENTAL FUNDS
YEAR ENDED JUNE 30, 2018

	Special Revenue Funds				
	Highway User Revenue	Local Transportation Assistance	Senior Programs	Judicial Collection Enhancement	Grants-In-Aid
Revenues					
Taxes	\$ -	\$ -	\$ -	\$ -	\$ -
Licenses and permits	-	-	-	-	-
Intergovernmental	5,398,639	250,943	357,462	-	2,014,371
Charges for services	-	-	-	87,929	-
Interest income	48,561	20,352	1,721	4,404	4,762
Net decrease in fair value of investments	(16,460)	-	-	-	-
Contributions	-	-	21,293	-	246,266
Miscellaneous	942	17,164	-	-	86,380
Total revenue	<u>5,431,682</u>	<u>288,459</u>	<u>380,476</u>	<u>92,333</u>	<u>2,351,779</u>
Expenditures					
Current:					
General government	-	-	-	68,342	17,382
Public safety	-	-	-	-	238,895
Highway and streets	1,544,006	-	-	-	7,554
Health and welfare	-	-	585,568	-	1,494,263
Economic and community development	2,020,074	-	-	-	-
Culture and recreation	-	-	-	-	12,376
Transportation	-	1,029,151	-	-	-
Debt service:					
Principal	-	-	-	-	-
Interest and other charges	-	-	-	-	-
Capital outlay	8,519	-	-	68,841	53,428
Total expenditures	<u>3,572,599</u>	<u>1,029,151</u>	<u>585,568</u>	<u>137,183</u>	<u>1,823,898</u>
Excess (deficiency) of revenues over (under) expenditures	<u>1,859,083</u>	<u>(740,692)</u>	<u>(205,092)</u>	<u>(44,850)</u>	<u>527,881</u>
Other financing sources (uses)					
Refunding bonds issued	-	-	-	-	-
Bond premium	-	-	-	-	-
Payments to refunded bonds escrow agent	-	-	-	-	-
Sale of capital assets	-	-	-	-	-
Transfers in	-	920,510	239,850	-	149,880
Transfers out	(336,055)	(1,030)	(11,870)	-	(232,545)
Total other financing sources (uses)	<u>(336,055)</u>	<u>919,480</u>	<u>227,980</u>	<u>-</u>	<u>(82,665)</u>
Net change in fund balances	1,523,028	178,788	22,888	(44,850)	445,216
Fund balances, July 1, 2017	<u>7,469,379</u>	<u>1,590,482</u>	<u>(77,490)</u>	<u>620,638</u>	<u>1,337,931</u>
Fund balances, June 30, 2018	<u>\$ 8,992,407</u>	<u>\$ 1,769,270</u>	<u>\$ (54,602)</u>	<u>\$ 575,788</u>	<u>\$ 1,783,147</u>

(continued on next page)

CITY OF AVONDALE, ARIZONA
COMBINING STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES
NONMAJOR GOVERNMENTAL FUNDS
YEAR ENDED JUNE 30, 2018

	Special Revenue Funds		Capital Projects Funds		
(continuation)	Family Advocacy Center	Environmental Fees	Vehicle Replacement	Equipment Replacement	Other Capital Projects
Revenues					
Taxes	\$ -	\$ -	\$ -	\$ -	\$ -
Licenses and permits	-	279,841	-	-	-
Intergovernmental	976,516	-	-	-	-
Charges for services	-	-	-	-	-
Interest income	20	2,083	110,622	6,603	28,599
Net increase in the fair value of investments	-	-	(36,788)	-	-
Contributions	404	-	-	-	49,968
Miscellaneous	-	-	-	-	253,774
Total revenue	<u>976,940</u>	<u>281,924</u>	<u>73,834</u>	<u>6,603</u>	<u>332,341</u>
Expenditures					
Current:					
General government	-	-	17	113,965	282,236
Public safety	1,225,608	-	-	-	-
Highway and streets	-	-	-	-	-
Health and welfare	-	150,190	-	-	-
Economic and community development	-	-	-	-	-
Culture and recreation	-	-	-	-	-
Transportation	-	-	-	-	-
Debt service:					
Principal	-	-	-	273,100	-
Interest and other charges	-	-	-	13,293	-
Capital outlay	51,000	-	479,789	225,342	848,648
Total expenditures	<u>1,276,608</u>	<u>150,190</u>	<u>479,806</u>	<u>625,700</u>	<u>1,130,884</u>
Excess (deficiency) of revenues over (under) expenditures	<u>(299,668)</u>	<u>131,734</u>	<u>(405,972)</u>	<u>(619,097)</u>	<u>(798,543)</u>
Other financing sources (uses)					
Refunding bonds issued	-	-	-	-	-
Bond premium	-	-	-	-	-
Payments to refunded bonds escrow agent	-	-	-	-	-
Sale of capital assets	-	-	112,957	18,182	-
Transfers in	313,060	-	1,349,180	885,720	10,401,288
Transfers out	(41,840)	(1,030)	-	-	-
Total other financing sources (uses)	<u>271,220</u>	<u>(1,030)</u>	<u>1,462,137</u>	<u>903,902</u>	<u>10,401,288</u>
Net change in fund balances	(28,448)	130,704	1,056,165	284,805	9,602,745
Fund balances, July 1, 2017	<u>240,921</u>	<u>724,972</u>	<u>6,923,450</u>	<u>1,013,680</u>	<u>2,409,558</u>
Fund balances, June 30, 2018	<u>\$ 212,473</u>	<u>\$ 855,676</u>	<u>\$ 7,979,615</u>	<u>\$ 1,298,485</u>	<u>\$ 12,012,303</u>

Debt Service Funds				
General Obligation Bonds	Highway User Revenue Bonds	Dedicated Sales Tax Revenue Bonds	Other Debt Service	Total Nonmajor Governmental Funds
\$ 3,138,635	\$ -	\$ -	\$ -	\$ 3,138,635
-	-	-	-	279,841
-	-	-	-	8,997,931
-	-	-	-	87,929
21,346	575	29,621	3,292	282,561
-	-	-	-	(53,248)
-	-	-	-	317,931
215,569	-	-	-	573,829
<u>3,375,550</u>	<u>575</u>	<u>29,621</u>	<u>3,292</u>	<u>13,625,409</u>
-	-	-	-	481,942
-	-	-	-	1,464,503
-	-	-	-	1,551,560
-	-	-	-	2,230,021
-	-	-	-	2,020,074
-	-	-	-	12,376
-	-	-	-	1,029,151
1,020,000	330,000	4,777,201	221,496	6,621,797
835,217	-	1,013,392	52,459	1,914,361
-	-	-	-	1,735,567
<u>1,855,217</u>	<u>330,000</u>	<u>5,790,593</u>	<u>273,955</u>	<u>19,061,352</u>
<u>1,520,333</u>	<u>(329,425)</u>	<u>(5,760,972)</u>	<u>(270,663)</u>	<u>(5,435,943)</u>
21,350,000	-	-	-	21,350,000
2,464,479	-	-	-	2,464,479
(23,395,316)	-	-	-	(23,395,316)
-	-	-	-	131,139
-	-	5,608,330	466,172	20,333,990
-	-	(105,380)	(66,172)	(795,922)
<u>419,163</u>	<u>-</u>	<u>5,502,950</u>	<u>400,000</u>	<u>20,088,370</u>
1,939,496	(329,425)	(258,022)	129,337	14,652,427
<u>218,803</u>	<u>468,187</u>	<u>4,192,926</u>	<u>1,237,487</u>	<u>28,370,924</u>
<u>\$ 2,158,299</u>	<u>\$ 138,762</u>	<u>\$ 3,934,904</u>	<u>\$ 1,366,824</u>	<u>\$ 43,023,351</u>



SUPPLEMENTARY INFORMATION

Nonmajor Governmental Funds Budgetary Comparison Schedules

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
HIGHWAY USER REVENUE FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Intergovernmental	\$ 5,244,650	\$ 5,244,650	\$ 5,398,639	\$ 153,989
Investment income	4,470	4,470	32,101	27,631
Miscellaneous	750	750	942	192
Total revenues	<u>5,249,870</u>	<u>5,249,870</u>	<u>5,431,682</u>	<u>181,812</u>
Expenditures				
Current:				
General government	254,090	254,090	-	254,090
Highways and streets	1,645,265	1,730,904	1,544,006	186,898
Economic and community development	2,727,310	2,641,671	2,020,074	621,597
Capital outlay	-	-	8,519	(8,519)
Total expenditures	<u>4,626,665</u>	<u>4,626,665</u>	<u>3,572,599</u>	<u>1,054,066</u>
Excess (deficiency) of revenues over (under) expenditures	<u>623,205</u>	<u>623,205</u>	<u>1,859,083</u>	<u>1,235,878</u>
Other financing sources (uses)				
Transfers out	<u>(336,055)</u>	<u>(336,055)</u>	<u>(336,055)</u>	-
Total other financing sources (uses)	<u>(336,055)</u>	<u>(336,055)</u>	<u>(336,055)</u>	-
Net change in fund balance	287,150	287,150	1,523,028	1,235,878
Fund balance, July 1, 2017	<u>5,729,715</u>	<u>5,729,715</u>	<u>7,469,379</u>	<u>1,739,664</u>
Fund balance, June 30, 2018	<u>\$ 6,016,865</u>	<u>\$ 6,016,865</u>	<u>\$ 8,992,407</u>	<u>\$ 2,975,542</u>

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
LOCAL TRANSPORTATION ASSISTANCE FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Intergovernmental	\$ 416,180	\$ 416,180	\$ 250,943	\$ (165,237)
Interest income	2,010	2,010	20,352	18,342
Miscellaneous	22,150	22,150	17,164	(4,986)
Total revenues	<u>440,340</u>	<u>440,340</u>	<u>288,459</u>	<u>(151,881)</u>
Expenditures				
Current:				
Transportation	<u>1,391,760</u>	<u>1,391,760</u>	<u>1,029,151</u>	<u>362,609</u>
Total expenditures	<u>1,391,760</u>	<u>1,391,760</u>	<u>1,029,151</u>	<u>362,609</u>
Excess (deficiency) of revenues over (under) expenditures	<u>(951,420)</u>	<u>(951,420)</u>	<u>(740,692)</u>	<u>210,728</u>
Other financing sources (uses)				
Transfers in	920,510	920,510	920,510	-
Transfers out	<u>(1,030)</u>	<u>(1,030)</u>	<u>(1,030)</u>	-
Total other financing sources (uses)	<u>919,480</u>	<u>919,480</u>	<u>919,480</u>	-
Net change in fund balance	(31,940)	(31,940)	178,788	210,728
Fund balance, July 1, 2017	<u>1,427,224</u>	<u>1,427,224</u>	<u>1,590,482</u>	<u>163,258</u>
Fund balance, June 30, 2018	<u>\$ 1,395,284</u>	<u>\$ 1,395,284</u>	<u>\$ 1,769,270</u>	<u>\$ 373,986</u>

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
SENIOR PROGRAMS FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Intergovernmental	\$ 323,450	\$ 332,017	\$ 357,462	\$ 25,445
Interest income	170	170	1,721	1,551
Contributions	17,030	15,978	21,293	5,315
Total revenues	<u>340,650</u>	<u>348,165</u>	<u>380,476</u>	<u>32,311</u>
Expenditures				
Current:				
Health and welfare	<u>545,484</u>	<u>588,140</u>	<u>585,568</u>	<u>2,572</u>
Total expenditures	<u>545,484</u>	<u>588,140</u>	<u>585,568</u>	<u>2,572</u>
Excess (deficiency) of revenues over (under) expenditures	<u>(204,834)</u>	<u>(239,975)</u>	<u>(205,092)</u>	<u>34,883</u>
Other financing sources (uses)				
Transfers in	300,965	239,850	239,850	-
Transfers out	<u>(11,870)</u>	<u>(11,870)</u>	<u>(11,870)</u>	-
Total other financing sources (uses)	<u>289,095</u>	<u>227,980</u>	<u>227,980</u>	-
Net change in fund balance	84,261	(11,995)	22,888	34,883
Fund balance, July 1, 2017	<u>(82,719)</u>	<u>(82,719)</u>	<u>(77,490)</u>	<u>5,229</u>
Fund balance, June 30, 2018	<u>\$ 1,542</u>	<u>\$ (94,714)</u>	<u>\$ (54,602)</u>	<u>\$ 40,112</u>

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
JUDICIAL COLLECTION ENHANCEMENT FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Charges for services	\$ 85,680	\$ 85,680	\$ 87,929	\$ 2,249
Interest income	630	630	4,404	3,774
Total revenues	<u>86,310</u>	<u>86,310</u>	<u>92,333</u>	<u>6,023</u>
Expenditures				
Current:				
General government	240,290	240,290	68,342	171,948
Capital outlay	<u>-</u>	<u>-</u>	<u>68,841</u>	<u>(68,841)</u>
Total expenditures	<u>240,290</u>	<u>240,290</u>	<u>137,183</u>	<u>103,107</u>
Net change in fund balance	(153,980)	(153,980)	(44,850)	109,130
Fund balance, July 1, 2017	<u>519,907</u>	<u>519,907</u>	<u>620,638</u>	<u>100,731</u>
Fund balance, June 30, 2018	<u>\$ 365,927</u>	<u>\$ 365,927</u>	<u>\$ 575,788</u>	<u>\$ 209,861</u>

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
GRANTS-IN-AID FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Intergovernmental	\$ 844,920	\$ 1,392,354	\$ 2,014,371	\$ 622,017
Interest income	100	100	4,762	4,662
Contributions	163,390	245,041	246,266	1,225
Miscellaneous	5,634,120	4,723,563	86,380	(4,637,183)
Total revenues	6,642,530	6,361,058	2,351,779	(4,009,279)
Expenditures				
Current:				
General government	5,126,909	692,340	17,382	674,958
Public safety	143,850	254,980	238,895	16,085
Highway and streets	-	43,000	7,554	35,446
Health and welfare	2,409,450	3,196,562	1,494,263	1,702,299
Culture and recreation	-	20,483	12,376	8,107
Capital outlay	51,071	108,199	53,428	54,771
Total expenditures	7,731,280	4,315,564	1,823,898	2,491,666
Excess (deficiency) of revenues over (under) expenditures	(1,088,750)	2,045,494	527,881	(1,517,613)
Other financing sources (uses)				
Transfers in	149,880	149,880	149,880	-
Transfers out	(226,030)	(232,545)	(232,545)	-
Total other financing sources (uses)	(76,150)	(82,665)	(82,665)	-
Net change in fund balance	(1,164,900)	1,962,829	445,216	(1,517,613)
Fund balance, July 1, 2017	813,762	813,762	1,337,931	524,169
Fund balance, June 30, 2018	<u>\$ (351,138)</u>	<u>\$ 2,776,591</u>	<u>\$ 1,783,147</u>	<u>\$ (993,444)</u>

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
FAMILY ADVOCACY CENTER FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Intergovernmental	\$ 939,180	\$ 1,277,459	\$ 976,516	\$ (300,943)
Interest income	-	-	20	20
Contributions	-	-	404	404
Miscellaneous	170	170	-	(170)
Total revenues	<u>939,350</u>	<u>1,277,629</u>	<u>976,940</u>	<u>(300,689)</u>
Expenditures				
Current:				
Public safety	1,210,400	1,583,738	1,225,608	358,130
Capital Outlay	-	-	51,000	(51,000)
Total expenditures	<u>1,210,400</u>	<u>1,583,738</u>	<u>1,276,608</u>	<u>307,130</u>
Excess (deficiency) of revenues over (under) expenditures	<u>(271,050)</u>	<u>(306,109)</u>	<u>(299,668)</u>	<u>6,441</u>
Other financing sources (uses)				
Transfers in	313,060	313,060	313,060	-
Transfers out	<u>(41,840)</u>	<u>(41,840)</u>	<u>(41,840)</u>	<u>-</u>
Total other financing sources (uses)	<u>271,220</u>	<u>271,220</u>	<u>271,220</u>	<u>-</u>
Net change in fund balance	170	(34,889)	(28,448)	6,441
Fund balance, July 1, 2017	<u>380,704</u>	<u>380,704</u>	<u>240,921</u>	<u>(139,783)</u>
Fund balance, June 30, 2018	<u>\$ 380,874</u>	<u>\$ 345,815</u>	<u>\$ 212,473</u>	<u>\$ (133,342)</u>

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
ENVIRONMENTAL FEES FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Licenses and permits	\$ 268,370	\$ 268,370	\$ 279,841	\$ 11,471
Interest income	-	-	2,083	2,083
Total revenues	<u>268,370</u>	<u>268,370</u>	<u>281,924</u>	<u>13,554</u>
Expenditures				
Current:				
Health and welfare	256,130	296,130	150,190	145,940
Total expenditures	<u>256,130</u>	<u>296,130</u>	<u>150,190</u>	<u>145,940</u>
Excess (deficiency) of revenues over (under) expenditures	<u>12,240</u>	<u>(27,760)</u>	<u>131,734</u>	<u>159,494</u>
Other financing sources (uses)				
Transfers out	(1,030)	(1,030)	(1,030)	-
Total other financing sources (uses)	<u>(1,030)</u>	<u>(1,030)</u>	<u>(1,030)</u>	<u>-</u>
Net change in fund balance	11,210	(28,790)	130,704	159,494
Fund balance, July 1, 2017	<u>577,522</u>	<u>577,522</u>	<u>724,972</u>	<u>147,450</u>
Fund balance, June 30, 2018	<u>\$ 588,732</u>	<u>\$ 548,732</u>	<u>\$ 855,676</u>	<u>\$ 306,944</u>

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
VEHICLE REPLACEMENT FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Interest income	\$ 7,450	\$ 7,450	\$ 73,834	\$ 66,384
Total revenues	7,450	7,450	73,834	66,384
Expenditures				
Current:				
General government	-	-	17	(17)
Capital outlay	2,336,610	2,336,610	479,789	1,856,821
Total expenditures	2,336,610	2,336,610	479,806	1,856,804
Excess (deficiency) of revenues over (under) expenditures	(2,329,160)	(2,329,160)	(405,972)	1,923,188
Other financing sources (uses)				
Sale of capital assets	200,000	200,000	112,957	(87,043)
Transfers in	1,349,180	1,349,180	1,349,180	-
Total other financing sources (uses)	1,549,180	1,549,180	1,462,137	(87,043)
Net change in fund balance	(779,980)	(779,980)	1,056,165	1,836,145
Fund balance, July 1, 2017	7,071,489	7,071,489	6,923,450	(148,039)
Fund balance, June 30, 2018	\$ 6,291,509	\$ 6,291,509	\$ 7,979,615	\$ 1,688,106

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
EQUIPMENT REPLACEMENT FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Interest income	\$ 500	\$ 500	\$ 6,603	\$ 6,103
Total revenues	500	500	6,603	6,103
Expenditures				
Current:				
General government	140,800	170,800	113,965	56,835
Debt service:				
Principal	-	-	273,100	(273,100)
Interest and other charges	-	-	13,293	(13,293)
Capital outlay	1,110,600	1,080,600	225,342	855,258
Total expenditures	1,251,400	1,251,400	625,700	625,700
Excess (deficiency) of revenues over (under) expenditures	(1,250,900)	(1,250,900)	(619,097)	631,803
Other financing sources (uses)				
Sale of capital assets	-	-	18,182	18,182
Transfers in	885,720	885,720	885,720	-
Total other financing sources (uses)	885,720	885,720	903,902	18,182
Net change in fund balance	(365,180)	(365,180)	284,805	649,985
Fund balance, July 1, 2017	1,104,327	1,104,327	1,013,680	(90,647)
Fund balance, June 30, 2018	\$ 739,147	\$ 739,147	\$ 1,298,485	\$ 559,338

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
OTHER CAPITAL PROJECTS FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Intergovernmental	\$ -	\$ -	\$ -	\$ -
Interest income	-	-	28,599	28,599
Contributions	38,000	38,000	49,968	11,968
Miscellaneous	-	-	253,774	253,774
Total revenues	<u>38,000</u>	<u>38,000</u>	<u>332,341</u>	<u>294,341</u>
Expenditures				
Current:				
General government	-	-	282,236	(282,236)
Capital outlay	<u>29,709,000</u>	<u>29,778,562</u>	<u>848,648</u>	<u>28,929,914</u>
Total expenditures	<u>29,709,000</u>	<u>29,778,562</u>	<u>1,130,884</u>	<u>28,647,678</u>
Excess (deficiency) of revenues over (under) expenditures	<u>(29,671,000)</u>	<u>(29,740,562)</u>	<u>(798,543)</u>	<u>28,942,019</u>
Other financing sources (uses)				
Bonds issued	25,000,000	25,000,000	-	(25,000,000)
Transfers in	<u>10,300,000</u>	<u>10,300,000</u>	<u>10,401,288</u>	<u>101,288</u>
Total other financing sources (uses)	<u>35,300,000</u>	<u>35,300,000</u>	<u>10,401,288</u>	<u>(24,898,712)</u>
Net change in fund balance	5,629,000	5,559,438	9,602,745	4,043,307
Fund balance, July 1, 2017	<u>2,084,000</u>	<u>2,084,000</u>	<u>2,409,558</u>	<u>325,558</u>
Fund balance, June 30, 2018	<u>\$ 7,713,000</u>	<u>\$ 7,643,438</u>	<u>\$ 12,012,303</u>	<u>\$ 4,368,865</u>

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
GENERAL OBLIGATION BONDS FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Taxes	\$ 3,152,467	\$ 3,152,467	\$ 3,138,635	\$ (13,832)
Investment income	1,610	1,610	21,346	19,736
Miscellaneous	485,650	485,650	215,569	(270,081)
Total revenues	<u>3,639,727</u>	<u>3,639,727</u>	<u>3,375,550</u>	<u>(264,177)</u>
Expenditures				
Debt service:				
Principal	1,400,000	1,400,000	1,020,000	380,000
Interest and other charges	<u>1,624,440</u>	<u>1,624,440</u>	<u>835,217</u>	<u>789,223</u>
Total expenditures	<u>3,024,440</u>	<u>3,024,440</u>	<u>1,855,217</u>	<u>1,169,223</u>
Excess (deficiency) of revenues over (under) expenditures	<u>615,287</u>	<u>615,287</u>	<u>1,520,333</u>	<u>905,046</u>
Other financing sources (uses)				
Refunding bonds issued	-	-	21,350,000	21,350,000
Bond premium	-	-	2,464,479	2,464,479
Payments to refunded bonds escrow	<u>-</u>	<u>-</u>	<u>(23,395,316)</u>	<u>(23,395,316)</u>
Total other financing sources (uses)	<u>-</u>	<u>-</u>	<u>419,163</u>	<u>419,163</u>
Net change in fund balance	615,287	615,287	1,939,496	1,324,209
Fund balance, July 1, 2017	<u>107,543</u>	<u>107,543</u>	<u>218,803</u>	<u>111,260</u>
Fund balance, June 30, 2018	<u>\$ 722,830</u>	<u>\$ 722,830</u>	<u>\$ 2,158,299</u>	<u>\$ 1,435,469</u>

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
HIGHWAY USER REVENUE BONDS FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Interest income	\$ 130	\$ 130	\$ 575	\$ 445
Total revenues	130	130	575	445
Expenditures				
Debt service:				
Principal	330,000	330,000	330,000	-
Interest and other charges	10,000	10,000	-	10,000
Total expenditures	340,000	340,000	330,000	10,000
Net change in fund balance	(339,870)	(339,870)	(329,425)	10,445
Fund balance, July 1, 2017	467,658	467,658	468,187	529
Fund balance, June 30, 2018	\$ 127,788	\$ 127,788	\$ 138,762	\$ 10,974

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
DEDICATED SALES TAX REVENUE BONDS FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Investment income	\$ 5,290	\$ 5,290	\$ 29,621	\$ 24,331
Total revenues	<u>5,290</u>	<u>5,290</u>	<u>29,621</u>	<u>24,331</u>
Expenditures				
Debt service:				
Principal	4,777,290	4,777,290	4,777,201	89
Interest and other charges	1,019,780	1,019,780	1,013,392	6,388
Total expenditures	<u>5,797,070</u>	<u>5,797,070</u>	<u>5,790,593</u>	<u>6,477</u>
Excess (deficiency) of revenues over (under) expenditures	<u>(5,791,780)</u>	<u>(5,791,780)</u>	<u>(5,760,972)</u>	<u>30,808</u>
Other financing sources (uses)				
Transfers in	5,502,950	5,502,950	5,608,330	105,380
Transfers out	-	-	(105,380)	(105,380)
Total other financing sources (uses)	<u>5,502,950</u>	<u>5,502,950</u>	<u>5,502,950</u>	<u>-</u>
Net change in fund balance	(288,830)	(288,830)	(258,022)	30,808
Fund balance, July 1, 2017	<u>6,936,520</u>	<u>6,936,520</u>	<u>4,192,926</u>	<u>(2,743,594)</u>
Fund balance, June 30, 2018	<u>\$ 6,647,690</u>	<u>\$ 6,647,690</u>	<u>\$ 3,934,904</u>	<u>\$ (2,712,786)</u>

CITY OF AVONDALE, ARIZONA
SCHEDULE OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - BUDGET AND ACTUAL
OTHER DEBT SERVICE FUND
YEAR ENDED JUNE 30, 2018

	Budgeted Amounts		Actual	Variance with Final Budget - Positive (Negative)
	Original	Final	Amounts	
Revenues				
Interest income	\$ 50	\$ 50	\$ 3,292	\$ 3,242
Total revenues	50	50	3,292	3,242
Expenditures				
Debt service:				
Principal	321,500	321,500	221,496	100,004
Interest and other charges	112,350	112,350	52,459	59,891
Total expenditures	433,850	433,850	273,955	159,895
Excess (deficiency) of revenues over (under) expenditures	(433,800)	(433,800)	(270,663)	163,137
Other financing sources (uses)				
Transfers in	400,000	400,000	466,172	66,172
Transfers out	-	-	(66,172)	(66,172)
Total other financing sources (uses)	400,000	400,000	400,000	-
Net change in fund balance	(33,800)	(33,800)	129,337	163,137
Fund balance, July 1, 2017	1,387,056	1,387,056	1,237,487	(149,569)
Fund balance, June 30, 2018	<u>\$ 1,353,256</u>	<u>\$ 1,353,256</u>	<u>\$ 1,366,824</u>	<u>\$ 13,568</u>



SUPPLEMENTARY INFORMATION

Internal Service Funds Combining Financial Statements

Self-Insurance Fund accounts for the City's property and liability self-insurance program. Coverage is provided using a combination of self-insurance and private carrier insurance. This fund provides liability insurance coverage for claims over the self-insurance limit; claims under the limit are charged directly to the fund. The fund charges city departments a premium. The premiums are intended to cover current claims, administration, and to establish and maintain a reserve to cover the risk that is being transferred to the fund.

Printing Services Fund accounts for the City's internal copier and printing fees with costs supported by billing user departments for print and copy services provided.

Fleet Management Fund accounts for the operation, maintenance, and repair of city-owned fleet vehicles and equipment with costs supported by billing user departments for administrative costs, labor, parts, and fuel charges when fleet services are provided.

CITY OF AVONDALE, ARIZONA
COMBINING STATEMENT OF NET POSITION
INTERNAL SERVICE FUNDS
JUNE 30, 2018

	Governmental Activities - Internal Service Funds			
	Self- Insurance	Printing Services	Fleet Management	Total
ASSETS				
Current assets:				
Cash and cash equivalents	\$ 2,820,519	\$ 913,785	\$ -	\$ 3,734,304
Receivables	-	1,623	186	1,809
Interest receivable	10,214	-	-	10,214
Inventories	-	-	215,634	215,634
Prepaid items	-	-	129	129
Restricted cash:				
Cash with third-party administrator	20,000	-	-	20,000
Total current assets	<u>2,850,733</u>	<u>915,408</u>	<u>215,949</u>	<u>3,982,090</u>
Noncurrent assets:				
Investments	2,994,155	-	-	2,994,155
Capital assets, depreciable (net)	42,738	142,027	99,494	284,259
Total noncurrent assets	<u>3,036,893</u>	<u>142,027</u>	<u>99,494</u>	<u>3,278,414</u>
Total assets	<u>5,887,626</u>	<u>1,057,435</u>	<u>315,443</u>	<u>7,260,504</u>
Deferred Outflows of Resources				
Deferred outflows related to pensions other postemployment benefits	27,015	-	86,916	113,931
Total deferred outflows of resources	<u>27,015</u>	<u>-</u>	<u>86,916</u>	<u>113,931</u>
LIABILITIES				
Current liabilities:				
Accounts payable	41,884	4,236	106,662	152,782
Accrued payroll and employee benefits	-	-	43,817	43,817
Claims payable	567,488	-	-	567,488
Due to other funds	-	-	146,043	146,043
Compensated absences	5,248	-	67,986	73,234
Total current liabilities	<u>614,620</u>	<u>4,236</u>	<u>364,508</u>	<u>983,364</u>
Noncurrent liabilities:				
Claims payable	367,544	-	-	367,544
Compensated absences	1,312	-	16,997	18,309
Net pension and other postemployment benefits liability	203,378	-	641,193	844,571
Total noncurrent liabilities	<u>572,234</u>	<u>-</u>	<u>658,190</u>	<u>1,230,424</u>
Total liabilities	<u>1,186,854</u>	<u>4,236</u>	<u>1,022,698</u>	<u>2,213,788</u>
Deferred Inflows of Resources				
Deferred inflows related to pensions and other postemployment benefits	11,968	-	34,610	46,578
Total deferred inflows of resources	<u>11,968</u>	<u>-</u>	<u>34,610</u>	<u>46,578</u>
NET POSITION				
Net investment in capital assets	42,738	142,027	99,494	284,259
Unrestricted	4,673,081	911,172	(754,443)	4,829,810
Total net position (deficit)	<u>\$ 4,715,819</u>	<u>\$ 1,053,199</u>	<u>\$ (654,949)</u>	<u>\$ 5,114,069</u>

CITY OF AVONDALE, ARIZONA
COMBINING STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN FUND NET POSITION
INTERNAL SERVICE FUNDS
YEAR ENDED JUNE 30, 2018

	Governmental Activities - Internal Service Funds			
	Self- Insurance	Printing Services	Fleet Management	Total
Operating revenues:				
Charges for services	\$ 2,874,890	\$ 312,998	\$ 2,265,565	\$ 5,453,453
Miscellaneous	13,533	-	1,685	15,218
Total operating revenues	<u>2,888,423</u>	<u>312,998</u>	<u>2,267,250</u>	<u>5,468,671</u>
Operating expenses:				
Salaries, wages and benefits	203,082	-	656,476	859,558
Contractual services, materials and supplies	514,638	117,968	1,617,845	2,250,451
Insurance claims and expenses	1,595,952	-	-	1,595,952
Depreciation	13,382	95,490	14,130	123,002
Total operating expenses	<u>2,327,054</u>	<u>213,458</u>	<u>2,288,451</u>	<u>4,828,963</u>
Operating income (loss)	<u>561,369</u>	<u>99,540</u>	<u>(21,201)</u>	<u>639,708</u>
Nonoperating revenues:				
Interest income	50,377	5,298	-	55,675
Net decrease in fair value of investments	(22,916)	-	-	(22,916)
Total non-operating revenues	<u>27,461</u>	<u>5,298</u>	<u>-</u>	<u>32,759</u>
Income before transfers	588,830	104,838	(21,201)	672,467
Transfers out	(1,030)	-	(8,700)	(9,730)
Change in net position	<u>587,800</u>	<u>104,838</u>	<u>(29,901)</u>	<u>662,737</u>
Net position (deficit), July 1, 2017	<u>4,128,019</u>	<u>948,361</u>	<u>(625,048)</u>	<u>4,451,332</u>
Net position (deficit), June 30, 2018	<u>\$ 4,715,819</u>	<u>\$ 1,053,199</u>	<u>\$ (654,949)</u>	<u>\$ 5,114,069</u>

CITY OF AVONDALE, ARIZONA
COMBINING STATEMENT OF CASH FLOWS
INTERNAL SERVICE FUNDS
YEAR ENDED JUNE 30, 2018

	Governmental Activities - Internal Service Funds			
	Risk Management	Printing Services	Fleet Management	Total
Cash flows from operating activities:				
Receipts from customers	\$ 2,874,890	\$ 312,995	\$ 2,265,379	\$ 5,453,264
Payments to suppliers for goods and services	(1,329,620)	(112,110)	(1,699,451)	(3,141,181)
Payments to employees for services	(211,866)	-	(636,453)	(848,319)
Miscellaneous	13,533	-	1,685	15,218
Net cash provided (used) by operating activities	<u>1,346,937</u>	<u>200,885</u>	<u>(68,840)</u>	<u>1,478,982</u>
Cash flows from noncapital financing activities:				
Interfund borrowing	-	-	103,625	103,625
Transfers out	(1,030)	-	(8,700)	(9,730)
Net cash provided (used) for noncapital financing activities	<u>(1,030)</u>	<u>-</u>	<u>94,925</u>	<u>93,895</u>
Cash flows from capital and related financing activities:				
Acquisition and construction of capital assets	-	(115,297)	(26,085)	(141,382)
Net cash provided (used) for capital and related financing activities	<u>-</u>	<u>(115,297)</u>	<u>(26,085)</u>	<u>(141,382)</u>
Cash flows from investing activities:				
Purchase of investments	(1,447,791)	-	-	(1,447,791)
Proceeds from sales and maturities of investments	450,583	-	-	450,583
Investment income	43,481	5,298	-	48,779
Net cash provided (used) by investing activities	<u>(953,727)</u>	<u>5,298</u>	<u>-</u>	<u>(948,429)</u>
Net increase (decrease) in cash and cash equivalents	392,180	90,886	-	483,066
Cash and cash equivalents, July 1, 2017	<u>2,448,339</u>	<u>822,899</u>	<u>-</u>	<u>3,271,238</u>
Cash and cash equivalents, June 30, 2018	<u>\$ 2,840,519</u>	<u>\$ 913,785</u>	<u>\$ -</u>	<u>\$ 3,754,304</u>
Reconciliation of operating income (loss) to net cash provided (used) by operating activities:				
Operating income (loss)	\$ 561,369	\$ 99,540	\$ (21,201)	\$ 639,708
Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities				
Depreciation	13,382	95,490	14,130	123,002
Change in assets, deferred outflows of resources, liabilities, and deferred inflows of resources:				
(Increase) decrease in accounts receivable	-	(3)	(186)	(189)
(Increase) decrease in inventories	-	-	(29,237)	(29,237)
(Increase) decrease in prepaid items	634,944	1,622	3,273	639,839
(Increase) decrease in deferred outflows of resources related to pensions and other postemployment benefits	12,697	-	57,649	70,346
Increase (decrease) in accounts payable	(31,059)	4,236	(55,642)	(82,465)
Increase (decrease) in accrued payroll and employee benefits	-	-	22,913	22,913
Increase (decrease) in compensated absences	(1,888)	-	11,132	9,244
Increase (decrease) in claims payable	177,085	-	-	177,085
Increase (decrease) in pension and other postemployment benefits liability	(6,772)	-	(24,778)	(31,550)
Increase (decrease) in deferred inflows of resources related to pensions and other postemployment benefits	(12,821)	-	(46,893)	(59,714)
Net cash provided (used) by operating activities	<u>\$ 1,346,937</u>	<u>\$ 200,885</u>	<u>\$ (68,840)</u>	<u>\$ 1,478,982</u>
Reconciliation of cash and cash equivalents at June 30, 2018 to statement of net position:				
Cash and cash equivalents	\$ 2,820,519	\$ 913,785	\$ -	\$ 3,734,304
Restricted cash with third-party administrator	20,000	-	-	20,000
Total cash and cash equivalents	<u>\$ 2,840,519</u>	<u>\$ 913,785</u>	<u>\$ -</u>	<u>\$ 3,754,304</u>
Noncash capital, financing and investing activities:				
Amortization of investment discount, net	\$ (2,801)	\$ -	\$ -	\$ (2,801)
Decrease in fair value of investments	(22,916)	-	-	(22,916)

SUPPLEMENTARY INFORMATION

Capital Assets Used in the Operation of Governmental Activities

CITY OF AVONDALE, ARIZONA
CAPITAL ASSETS USED IN THE OPERATION OF GOVERNMENTAL ACTIVITIES
SCHEDULE BY FUNCTION AND ACTIVITY
YEAR ENDED JUNE 30, 2018

Function and Activity	Land	Buildings and Improvements	Improvements Other Than Buildings
General government	\$ 13,423,219	\$ 19,581,384	\$ 112,036
Public safety	307,003	18,100,617	229,476
Highways and streets	234,295,894	1,224,963	10,085,523
Health and welfare	215,948	1,016,876	94,537
Economic and community development	51,711	362,020	2,174,989
Culture and recreation	6,677,463	42,092,226	9,099,845
Transportation	1,488,639	406,820	2,051,434
Total	<u>\$ 256,459,877</u>	<u>\$ 82,784,906</u>	<u>\$ 23,847,840</u>

Vehicles, Furniture and Equipment	Infrastructure	Intangible Assets	Construction in Progress	Total
\$ 18,052,348	\$ -	\$ -	\$ 3,026,566	\$ 54,195,553
19,594,435	-	1,965,259	361,336	40,558,126
3,518,356	396,539,746	-	4,744,910	650,409,392
383,840	-	-	38,553	1,749,754
372,581	-	-	-	2,961,301
2,128,769	379,115	-	1,302,260	61,679,678
-	-	-	-	3,946,893
<u>\$ 44,050,329</u>	<u>\$ 396,918,861</u>	<u>\$ 1,965,259</u>	<u>\$ 9,473,625</u>	<u>\$ 815,500,697</u>

CITY OF AVONDALE, ARIZONA
CAPITAL ASSETS USED IN THE OPERATION OF GOVERNMENTAL ACTIVITIES
SCHEDULE OF CHANGES BY FUNCTION AND ACTIVITY
YEAR ENDED JUNE 30, 2018

Function and Activity	Capital Assets June 30, 2017	Additions	Deletions	Capital Assets June 30, 2018
General government	\$ 50,078,371	\$ 4,424,499	\$ 307,317	\$ 54,195,553
Public safety	39,741,767	1,197,026	380,667	40,558,126
Highways and streets	642,976,313	9,862,376	2,429,297	650,409,392
Health and welfare	1,700,321	109,233	59,800	1,749,754
Economic and community development	2,961,301	-	-	2,961,301
Culture and recreation	60,250,558	2,105,118	675,998	61,679,678
Transportation	3,946,893	-	-	3,946,893
Total	<u>\$ 801,655,524</u>	<u>\$ 17,698,252</u>	<u>\$ 3,853,079</u>	<u>\$ 815,500,697</u>

CITY OF AVONDALE, ARIZONA
CAPITAL ASSETS USED IN THE OPERATION OF GOVERNMENTAL ACTIVITIES
SCHEDULE BY SOURCE
YEAR ENDED JUNE 30, 2018

Governmental fund capital assets:

Land	\$ 256,459,877
Buildings and improvements	82,784,906
Improvements other than buildings	23,847,840
Vehicles, furniture and equipment	44,050,329
Infrastructure	396,918,861
Intangible assets	1,965,259
Construction in progress	9,473,625
Total	<u>\$ 815,500,697</u>

Investment in governmental activities capital assets by source:

General Fund	\$ 28,127,223
Special Revenue Funds	10,682,076
Capital Projects Funds	775,495,548
Internal Service Funds	1,195,850
Total	<u>\$ 815,500,697</u>



STATISTICAL SECTION

Financial presentations included in this section provide data and information on the financial, physical, and economic characteristics of the City. The following schedules cover multiple fiscal years and provide users with a broader and more complete understanding of the City and its financial affairs and economic condition. They also present detailed information as a context for understanding this year's financial statements, note disclosures, and required supplementary information.

	Schedule	Page
Financial Trends		
These schedules contain trend information to help users understand and assess how the City's financial position has changed over time.		
Net Position by Component - Last Ten Fiscal Years	1	141
Changes in Net Position - Last Ten Fiscal Years	2	143
Fund Balances of Governmental Funds - Last Ten Fiscal Years	3	147
Changes in Fund Balances of Governmental Funds - Last Ten Fiscal Years	4	149
Revenue Capacity		
These schedules contain information to help users understand and assess the City's local revenue sources such as property taxes and transaction privilege taxes.		
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Property Tax Rates - Direct and Overlapping Governments - Last Ten Fiscal Years	6	153
Principal Property Taxpayers - Current Year and Nine Years Ago	7	155
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Direct Overlapping Net Limited Assessed Property Values and Tax Rates	9	157
Transaction Privilege Taxes by Industry Classification - Last Ten Fiscal Years	10	159
Debt Capacity		
These schedules present information to help users understand and assess the City's debt burden and its ability to service current debt and to issue additional debt in the future.		
Ratios of Outstanding Debt by Type - Last Ten Fiscal Years	11	161
Legal Debt Margin Information - Last Ten Fiscal Years	12	163
Avondale Water and Sewer Systems Pledged Revenue Coverage - Last Ten Fiscal Years	13	165
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Sources of the Water System - Last Seven Years	17	171
Schedule of Water and Sewer Sales, Number of Customers, and Other Fees and Revenue - Last Eight Fiscal Years	18	173
Current Year Statistics - Last Seven Fiscal years	19	175
Demographic and Economic Information		
These schedules present economic and demographic indicators to help users understand the environment within which the City's financial activities take place.		
Demographic and Economic Statistics - Last Ten Fiscal Years	20	177
Principal Employers - Current Year and Nine Years Ago	21	178
Operating Information		
These schedules present information to help users understand the City's operations and resources as well as to provide a context for understanding and assessing the City's economic condition.		
Full-Time Equivalent City Government Employees by Function - Last Ten Fiscal Years	22	179
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CITY OF AVONDALE, ARIZONA
NET POSITION BY COMPONENT
LAST TEN FISCAL YEARS
(accrual basis of accounting)

	2009	2010	2011	2012
Governmental activities				
Net investment in capital assets	\$ 486,881,869	\$ 466,763,910	\$ 484,872,851	\$ 489,161,664
Restricted	39,386,916	57,592,957	30,174,849	27,637,885
Unrestricted	39,653,933	36,971,792	45,218,881	45,541,352
Total governmental activities net position	<u>\$ 565,922,718</u>	<u>\$ 561,328,659</u>	<u>\$ 560,266,581</u>	<u>\$ 562,340,901</u>
Business-type activities				
Net investment in capital assets	\$ 494,353,666	\$ 497,810,394	\$ 488,787,961	\$ 482,912,493
Restricted	16,598,095	14,798,748	14,520,330	15,358,409
Unrestricted	37,775,176	41,606,778	44,374,708	44,766,194
Total business-type activities net position	<u>\$ 548,726,937</u>	<u>\$ 554,215,920</u>	<u>\$ 547,682,999</u>	<u>\$ 543,037,096</u>
Primary government				
Net investment in capital assets	\$ 981,235,535	\$ 964,574,304	\$ 973,660,812	\$ 972,074,157
Restricted	55,985,011	72,391,705	44,695,179	42,996,294
Unrestricted	77,429,109	78,578,570	89,593,589	90,307,546
Total primary government net position	<u>\$1,114,649,655</u>	<u>\$1,115,544,579</u>	<u>\$1,107,949,580</u>	<u>\$1,105,377,997</u>

¹ In 2015, the City implemented GASB Statement No. 68, *Accounting and Financial Reporting for Pensions*, as amended by GASB Statement No. 71, *Pension Transition for Contributions Made Subsequent to the Measurement Date*. The 2014 net position has been restated for comparative purposes to reflect the implementation.

Source: Audited City of Avondale, Arizona, Comprehensive Annual Financial Reports.

Schedule 1

2013	2014 ¹	2015	2016	2017	2018
\$ 494,754,961	\$ 499,739,936	\$ 504,180,483	\$ 503,290,685	\$ 514,022,743	\$ 512,653,918
20,548,326	23,376,185	27,279,288	31,111,470	31,791,041	38,693,992
50,737,518	14,469,385	16,252,006	23,773,087	21,900,625	31,680,335
<u>\$ 566,040,805</u>	<u>\$ 537,585,506</u>	<u>\$ 547,711,777</u>	<u>\$ 558,175,242</u>	<u>\$ 567,714,409</u>	<u>\$ 583,028,245</u>
\$ 479,033,932	\$ 474,668,428	\$ 469,377,530	\$ 458,698,957	\$ 449,877,043	\$ 445,885,371
12,092,990	8,607,019	7,247,176	11,795,732	26,297,393	21,099,328
46,511,771	42,327,797	43,955,822	48,661,412	43,521,686	65,745,127
<u>\$ 537,638,693</u>	<u>\$ 525,603,244</u>	<u>\$ 520,580,528</u>	<u>\$ 519,156,101</u>	<u>\$ 519,696,122</u>	<u>\$ 532,729,826</u>
\$ 973,788,893	\$ 974,408,364	\$ 973,558,013	\$ 961,989,642	\$ 963,899,786	\$ 958,539,289
32,641,316	31,983,204	34,526,464	42,907,202	58,088,434	59,793,320
97,249,289	56,797,182	60,207,828	72,434,499	65,422,311	97,425,462
<u>\$1,103,679,498</u>	<u>\$1,063,188,750</u>	<u>\$1,068,292,305</u>	<u>\$1,077,331,343</u>	<u>\$1,087,410,531</u>	<u>\$1,115,758,071</u>

CITY OF AVONDALE, ARIZONA
CHANGES IN NET POSITION
LAST TEN FISCAL YEARS
(accrual basis of accounting)

	2009	2010	2011	2012
Expenses				
Governmental activities:				
General government	\$ 14,968,809	\$ 12,862,710	\$ 15,364,915	\$ 12,194,735
Public safety	26,634,975	24,168,796	25,139,168	24,509,660
Highways and streets	11,069,079	12,322,104	13,246,764	12,514,335
Health and welfare	2,545,061	2,470,031	2,511,615	2,748,093
Economic and community development	6,808,330	7,985,413	5,091,504	5,015,366
Culture and recreation	3,327,765	3,190,869	3,268,540	3,675,781
Transportation	867,173	1,902,347	1,581,404	1,824,128
Interest on long-term debt	3,246,602	5,129,250	4,849,805	4,573,048
Total governmental activities expenses	<u>69,467,794</u>	<u>70,031,520</u>	<u>71,053,715</u>	<u>67,055,146</u>
Business-type activities:				
Water utility	15,542,394	15,442,478	16,686,715	15,517,184
Wastewater utility	10,555,903	10,252,684	11,361,012	11,232,156
Sanitation utility	4,117,318	3,613,617	3,530,472	3,748,396
Total business-type activities expenses	<u>30,215,615</u>	<u>29,308,779</u>	<u>31,578,199</u>	<u>30,497,736</u>
Total primary government expenses	<u>\$ 99,683,409</u>	<u>\$ 99,340,299</u>	<u>\$ 102,631,914</u>	<u>\$ 97,552,882</u>
Program Revenues				
Governmental activities:				
Charges for services:				
General government	\$ 1,787,153	\$ 1,656,665	\$ 1,465,160	\$ 1,543,248
Public safety	665,937	407,961	415,243	290,321
Highway and streets	-	-	-	-
Economic and community development	805,550	576,436	895,233	614,765
Culture and recreation	492,988	575,046	257,614	413,832
Operating grants and contributions	8,386,128	12,712,420	10,449,880	8,665,735
Capital grants and contributions	8,855,743	1,795,711	3,639,920	1,642,679
Total governmental activities program revenues	<u>20,993,499</u>	<u>17,724,239</u>	<u>17,123,050</u>	<u>13,170,580</u>
Business-type activities:				
Charges for Services:				
Water	10,903,178	11,097,099	11,315,015	12,241,675
Wastewater	7,124,168	7,220,779	7,466,785	7,695,007
Sanitation	4,414,342	4,732,011	4,845,058	4,909,423
Capital grants and contributions	8,216,300	1,648,926	719,803	444,983
Total business-type activities program revenues	<u>30,657,988</u>	<u>24,698,815</u>	<u>24,346,661</u>	<u>25,291,088</u>
Total primary government program revenues	<u>\$ 51,651,487</u>	<u>\$ 42,423,054</u>	<u>\$ 41,469,711</u>	<u>\$ 38,461,668</u>

Schedule 2

2013	2014	2015	2016	2017	2018
\$ 12,769,952	\$ 12,331,057	\$ 12,920,373	\$ 13,902,546	\$ 14,309,548	\$ 17,413,185
26,087,882	27,920,756	29,193,364	31,025,502	42,260,573	38,601,762
12,144,322	12,363,230	14,148,176	12,849,769	12,539,013	13,797,634
3,937,970	3,491,716	3,086,230	3,509,117	3,200,864	3,592,893
5,036,147	5,489,089	5,318,125	6,205,863	6,418,604	6,354,065
3,813,472	4,783,299	5,048,110	5,576,173	5,416,224	5,964,961
1,236,160	1,280,435	890,857	744,751	890,706	1,138,438
4,357,797	3,788,220	3,574,631	3,368,741	2,887,484	1,268,556
69,383,702	71,447,802	74,179,866	77,182,462	87,923,016	88,131,494
15,879,676	15,313,614	14,978,673	15,648,760	16,242,773	16,560,738
11,500,364	11,992,043	12,039,948	11,862,023	12,389,737	11,620,939
3,860,578	4,373,521	4,573,971	4,742,323	4,578,856	4,809,711
31,240,618	31,679,178	31,592,592	32,253,106	33,211,366	32,991,388
\$ 100,624,320	\$ 103,126,980	\$ 105,772,458	\$ 109,435,568	\$ 121,134,382	\$ 121,122,882
\$ 1,962,825	\$ 1,791,970	\$ 2,024,897	\$ 1,959,842	\$ 1,747,987	\$ 2,074,885
458,799	469,192	515,920	493,996	516,750	440,119
-	-	-	-	-	97,442
862,360	800,438	1,118,951	1,501,234	2,637,557	3,255,772
360,924	333,734	404,179	404,776	369,495	383,379
9,373,853	9,393,303	8,653,787	8,362,914	9,058,945	9,759,508
1,973,402	1,118,868	2,044,100	2,552,008	5,509,985	5,841,412
14,992,163	13,907,505	14,761,834	15,274,770	19,840,719	21,852,517
11,882,083	12,227,233	11,527,730	12,840,329	14,655,947	15,451,443
7,746,807	7,963,581	7,988,157	8,247,723	9,133,838	9,731,664
4,954,195	5,032,187	5,055,904	5,104,181	5,139,643	5,247,119
1,042,780	653,419	1,299,643	3,590,768	4,107,998	4,242,922
25,625,865	25,876,420	25,871,434	29,783,001	33,037,426	34,673,148
\$ 40,618,028	\$ 39,783,925	\$ 40,633,268	\$ 45,057,771	\$ 52,878,145	\$ 56,525,665

(continued on next page)

CITY OF AVONDALE, ARIZONA
CHANGES IN NET POSITION
LAST TEN FISCAL YEARS
(accrual basis of accounting)

(Continuation)

	2009	2010	2011	2012
Net (Expense) Revenue				
Governmental activities	\$ (48,474,295)	\$ (52,307,281)	\$ (53,930,665)	\$ (53,884,566)
Business-type activities	442,373	(4,609,964)	(7,231,538)	(5,206,648)
Total primary government net (expenses) revenues	<u>\$ (48,031,922)</u>	<u>\$ (56,917,245)</u>	<u>\$ (61,162,203)</u>	<u>\$ (59,091,214)</u>
General Revenues and Other Changes in Net Position				
Governmental activities:				
Taxes				
Sales and use taxes	\$ 33,021,053	\$ 30,298,359	\$ 30,417,802	\$ 32,914,546
Property taxes, levied for general purposes	1,916,742	2,063,316	2,210,771	2,278,643
Property taxes, levied for debt service	5,061,320	4,716,859	3,473,069	2,985,899
Franchise taxes	1,033,993	1,047,312	1,950,000	1,096,920
State shared revenues, unrestricted	18,249,722	15,644,558	14,410,652	14,870,469
Investment income	592,542	417,727	318,931	282,485
Gain on sale of capital assets	217,001	25,307	7,794	33,435
Miscellaneous	934,675	2,376,003	1,084,568	1,646,489
Transfers	(17,962,235)	(8,876,219)	(150,000)	(150,000)
Total governmental activities	<u>43,064,813</u>	<u>47,713,222</u>	<u>53,723,587</u>	<u>55,958,886</u>
Business-type activities:				
Investment income	574,400	195,602	166,893	196,973
Gain on sale of capital assets	77,747	75,345	-	-
Miscellaneous	162,046	135,320	381,724	213,772
Transfers	17,962,235	8,876,219	150,000	150,000
Total business-type activities	<u>18,776,428</u>	<u>9,282,486</u>	<u>698,617</u>	<u>560,745</u>
Total primary government	<u>\$ 61,841,241</u>	<u>\$ 56,995,708</u>	<u>\$ 54,422,204</u>	<u>\$ 56,519,631</u>
Changes in Net Position				
Governmental activities	\$ (5,409,482)	\$ (4,594,059)	\$ (1,062,078)	\$ 2,074,320
Business-type activities	19,218,801	4,672,522	(6,532,921)	(4,645,903)
Total primary government	<u>\$ 13,809,319</u>	<u>\$ 78,463</u>	<u>\$ (7,594,999)</u>	<u>\$ (2,571,583)</u>

Source: Audited City of Avondale, Arizona, Comprehensive Annual Financial Reports.

Schedule 2

2013	2014	2015	2016	2017	2018
\$ (54,391,539)	\$ (57,540,297)	\$ (59,418,032)	\$ (61,907,692)	\$ (68,082,297)	\$ (66,278,977)
(5,614,753)	(5,802,758)	(5,721,158)	(2,470,105)	(173,940)	1,681,760
<u>\$ (60,006,292)</u>	<u>\$ (63,343,055)</u>	<u>\$ (65,139,190)</u>	<u>\$ (64,377,797)</u>	<u>\$ (68,256,237)</u>	<u>\$ (64,597,217)</u>
\$ 35,929,759	\$ 37,639,556	\$ 40,955,916	\$ 43,352,256	\$ 46,473,655	\$ 49,443,328
2,302,649	2,421,361	2,478,599	2,607,457	2,681,915	2,794,009
2,268,323	3,209,741	3,373,624	3,336,779	3,275,427	3,166,482
1,101,693	1,132,811	1,150,766	1,090,135	1,135,350	1,256,448
16,617,488	17,896,107	19,151,120	19,590,959	20,499,811	21,713,658
(127,021)	408,645	342,423	399,174	400,040	660,720
19,498	56,600	138,810	248,858	268,568	(40,759)
1,170,396	1,571,790	2,103,045	1,895,539	3,036,698	2,748,927
(150,000)	(150,000)	(150,000)	(150,000)	(150,000)	(150,000)
<u>59,132,785</u>	<u>64,186,611</u>	<u>69,544,303</u>	<u>72,371,157</u>	<u>77,621,464</u>	<u>81,592,813</u>
(69,172)	279,812	286,576	381,482	310,375	500,622
-	83,030	25,231	155,204	104,002	124,425
263,193	241,999	236,635	358,992	149,584	456,716
150,000	150,000	150,000	150,000	150,000	150,000
<u>344,021</u>	<u>754,841</u>	<u>698,442</u>	<u>1,045,678</u>	<u>713,961</u>	<u>1,231,763</u>
<u>\$ 59,476,806</u>	<u>\$ 64,941,452</u>	<u>\$ 70,242,745</u>	<u>\$ 73,416,835</u>	<u>\$ 78,335,425</u>	<u>\$ 82,824,576</u>
\$ 4,741,246	\$ 6,646,314	\$ 10,126,271	\$ 10,463,465	\$ 9,539,167	\$ 15,313,836
(5,270,732)	(5,047,917)	(5,022,716)	(1,424,427)	540,021	2,913,523
<u>\$ (529,486)</u>	<u>\$ 1,598,397</u>	<u>\$ 5,103,555</u>	<u>\$ 9,039,038</u>	<u>\$ 10,079,188</u>	<u>\$ 18,227,359</u>

CITY OF AVONDALE, ARIZONA
FUND BALANCES OF GOVERNMENTAL FUNDS
LAST TEN FISCAL YEARS
(modified accrual basis of accounting)

	2009	2010	2011 ¹	2012
General Fund				
Reserved	\$ 12,435	\$ 77,125	\$ -	\$ -
Unreserved	32,285,521	29,013,029	-	-
Nonspendable:				
Inventory	-	-	3,783	3,176
Prepaid items	-	-	164,012	271,673
Due from other funds	-	-	-	-
Advances to other funds	-	-	-	-
Restricted for:				
Public safety	-	-	326,879	349,992
Committed to:				
Budgetary stabilization	-	-	20,107,819	16,192,523
Assigned to:				
Other purposes	-	-	2,150,250	7,253,410
Unassigned	-	-	3,036,074	7,916,399
Total General Fund	<u>\$ 32,297,956</u>	<u>\$ 29,090,154</u>	<u>\$ 25,788,817</u>	<u>\$ 31,987,173</u>
All other governmental funds				
Reserved	\$ 16,565,285	\$ 30,429,893	\$ -	\$ -
Unreserved, reported in:				
Special Revenue Funds	9,383,952	9,323,672	-	-
Capital Projects Funds	18,585,349	22,958,296	-	-
Nonspendable:				
Inventory	-	-	225,904	220,837
Prepaid items	-	-	612,457	771,513
Restricted for:				
Transit services	-	-	61,744	1,688,441
Highway and streets	-	-	3,249,085	3,334,517
Court	-	-	516,711	554,471
Grant and contributor purposes	-	-	1,139,954	955,553
Public safety	-	-	1,233,782	2,090,147
Debt service	-	-	12,648,785	11,726,347
Capital projects	-	-	8,810,461	4,073,188
Water, sewer and street projects	-	-	523,204	420,781
Crime victim advocacy	-	-	93,903	155,389
Committed to:				
Capital projects	-	-	2,871,197	668,344
Crime victim advocacy	-	-	46,951	77,694
Assigned to:				
Vehicle replacement	-	-	6,442,998	7,062,662
Equipment replacement	-	-	1,033,740	331,294
Capital projects	-	-	4,536,974	4,288,987
Transit services	-	-	2,945,885	-
Unassigned	-	-	-	-
Total all other governmental funds	<u>\$ 44,534,586</u>	<u>\$ 62,711,861</u>	<u>\$ 46,993,735</u>	<u>\$ 38,420,165</u>

¹ The City implemented GASB 54 in fiscal year 2011. Prior years' financial statements were not restated to provide the five fund balance classifications.

Source: Audited City of Avondale, Arizona, Comprehensive Annual Financial Reports.

Schedule 3

2013	2014	2015	2016	2017	2018
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
-	-	-	-	-	-
2,202	449	-	434	6,526	-
131,888	131,306	342,255	112,432	66,495	86,099
1,200,000	4,156,428	3,838,468	833,000	-	-
-	-	-	-	833,000	833,000
171,150	130,205	335,058	254,758	102,794	50,965
15,389,437	18,934,773	19,405,505	20,092,995	21,400,558	21,867,357
5,453,049	8,721,580	4,882,920	3,997,254	12,651,519	2,386,030
10,382,138	1,800,250	7,521,330	16,497,354	15,704,372	22,849,263
<u>\$ 32,729,864</u>	<u>\$ 33,874,991</u>	<u>\$ 36,325,536</u>	<u>\$ 41,788,227</u>	<u>\$ 50,765,264</u>	<u>\$ 48,072,714</u>
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
-	-	-	-	-	-
-	-	-	-	-	-
281,218	309,973	320,636	305,262	307,706	267,598
671,092	688,572	361,123	400,766	61,168	7,765
1,627,956	1,137,018	977,138	1,356,976	1,579,099	1,752,045
3,601,986	3,853,579	4,673,503	5,826,016	7,169,856	8,739,999
613,134	634,184	657,831	639,778	613,041	575,788
119,721	597,631	914,738	817,062	1,337,527	1,805,961
3,362,724	4,685,520	6,033,061	7,438,683	7,790,078	8,602,953
5,830,512	7,879,134	8,430,380	8,912,477	6,117,403	7,598,789
2,442,036	792,935	1,291,443	1,388,787	1,436,817	2,664,535
1,099,439	1,765,548	2,251,750	2,908,567	4,059,144	5,659,841
154,178	131,924	163,340	141,475	143,216	156,204
3,956,556	322,646	263,234	3,544,816	1,667,731	2,969,597
51,393	43,974	54,447	47,158	47,738	52,068
8,438,757	8,171,863	7,519,081	7,271,801	6,923,450	7,979,615
335,328	664,109	762,199	1,051,461	1,013,680	1,298,485
4,588,564	7,178,750	7,728,456	5,245,637	4,787,077	15,498,698
-	-	-	-	-	-
(185,532)	(632,375)	(741,111)	(35,283)	(77,490)	(77,490)
<u>\$ 36,989,062</u>	<u>\$ 38,224,985</u>	<u>\$ 41,661,249</u>	<u>\$ 47,261,439</u>	<u>\$ 44,977,241</u>	<u>\$ 65,552,451</u>

CITY OF AVONDALE, ARIZONA
CHANGES IN FUND BALANCES OF GOVERNMENTAL FUNDS
LAST TEN FISCAL YEARS
(modified accrual basis of accounting)

	2009	2010	2011	2012
Revenues				
Taxes	\$ 40,966,295	\$ 38,227,410	\$ 37,206,864	\$ 39,383,889
Licenses and permits	3,134,769	1,996,430	1,073,233	1,342,998
Intergovernmental	27,035,675	27,626,462	26,755,077	23,743,672
Charges for services	1,179,405	944,332	1,322,030	891,777
Fines, forfeitures, and penalties	1,357,050	1,262,853	1,152,077	1,175,041
Investment income	580,422	415,395	315,685	279,999
Contributions	1,137,849	942,440	813,886	1,042,296
Miscellaneous	261,427	2,431,170	1,117,621	1,364,648
Total revenues	<u>75,652,892</u>	<u>73,846,492</u>	<u>69,756,473</u>	<u>69,224,320</u>
Expenditures				
General government	10,970,755	9,477,910	12,077,265	11,049,852
Public safety	23,939,534	22,881,143	23,717,192	23,360,386
Highways and streets	2,177,687	2,605,224	3,472,183	2,518,264
Health and welfare	2,719,779	4,931,655	2,660,252	2,766,874
Economic and community development	6,588,345	5,528,640	4,886,947	5,015,247
Culture and recreation	4,021,204	3,396,173	3,409,346	2,484,829
Transportation	870,662	1,895,324	1,580,838	1,823,627
Debt Service				
Principal	7,684,563	8,620,474	8,585,695	8,554,217
Interest and other charges	3,855,789	5,427,681	5,023,373	4,706,601
Capital outlay	<u>22,182,625</u>	<u>15,262,429</u>	<u>23,240,459</u>	<u>9,223,066</u>
Total expenditures	<u>85,010,943</u>	<u>80,026,653</u>	<u>88,653,550</u>	<u>71,502,963</u>
Excess of revenues over (under) expenditures	(9,358,051)	(6,180,161)	(18,897,077)	(2,278,643)
Other Financing Sources (Uses)				
Bond issuance	15,000,000	29,800,000	-	-
Refunding bonds issued	-	2,815,000	-	-
Payment to refunding bonds escrow agent	-	(2,753,893)	-	-
Bond premium (discount)	91,235	48,388	-	-
Capital leases	-	116,358	-	-
Sale of capital assets	223,770	-	7,794	38,369
Transfer in	18,277,333	41,785,235	12,859,860	10,356,562
Transfer out	<u>(36,322,538)</u>	<u>(50,661,454)</u>	<u>(12,990,040)</u>	<u>(10,491,502)</u>
Total other financing sources (uses)	<u>(2,730,200)</u>	<u>21,149,634</u>	<u>(122,386)</u>	<u>(96,571)</u>
Net change in fund balances	<u>\$ (12,088,251)</u>	<u>\$ 14,969,473</u>	<u>\$ (19,019,463)</u>	<u>\$ (2,375,214)</u>
Debt service as a percentage of noncapital expenditures	18.4%	21.7%	20.8%	21.3%

Source: Audited City of Avondale, Arizona, Comprehensive Annual Financial Reports.

Schedule 4

2013	2014	2015	2016	2017	2018
\$ 41,645,010	\$ 44,454,517	\$ 48,121,583	\$ 50,433,911	\$ 53,621,688	\$ 56,655,533
2,076,599	1,435,548	2,532,559	3,687,377	5,297,673	7,142,796
25,607,050	26,568,228	27,061,879	27,914,071	29,665,270	31,229,183
1,129,782	1,111,375	1,244,710	1,233,719	1,677,400	2,149,686
1,357,243	1,219,003	1,403,457	1,255,197	1,059,626	1,275,599
(130,638)	406,914	335,873	375,359	380,740	627,961
268,399	814,318	320,386	315,948	362,695	338,603
1,222,169	1,682,888	2,345,170	2,087,860	2,373,397	2,295,587
<u>73,175,614</u>	<u>77,692,791</u>	<u>83,365,617</u>	<u>87,303,442</u>	<u>94,438,489</u>	<u>101,714,948</u>
11,679,121	11,106,677	11,269,744	12,885,068	12,325,497	14,597,179
24,810,275	26,267,504	27,588,742	29,453,443	31,889,715	34,895,720
1,766,303	1,943,651	3,645,538	2,354,255	2,572,848	2,908,744
3,966,243	3,542,511	3,109,810	3,590,178	3,300,924	3,719,705
5,055,207	5,341,635	5,491,412	6,049,229	6,094,461	6,332,025
2,480,049	3,509,702	3,851,074	3,716,124	3,849,886	4,185,181
1,234,845	1,277,281	894,655	704,440	772,784	1,029,151
13,712,314	5,278,486	6,324,153	6,436,835	7,131,893	6,621,797
4,621,821	3,844,374	3,614,285	3,409,627	3,282,008	1,914,361
4,656,036	12,992,364	11,544,285	7,799,212	13,693,511	12,936,782
<u>73,982,214</u>	<u>75,104,185</u>	<u>77,333,698</u>	<u>76,398,411</u>	<u>84,913,527</u>	<u>89,140,645</u>
(806,600)	2,588,606	6,031,919	10,905,031	9,524,962	12,574,303
-	-	-	-	-	-
9,275,000	-	-	-	23,457,070	21,350,000
(9,469,388)	-	-	-	(29,768,467)	(23,395,316)
427,048	-	-	-	3,012,110	2,464,479
-	-	-	-	304,326	4,542,254
19,498	58,094	187,050	295,690	283,585	487,210
18,827,399	15,114,320	19,485,856	15,549,460	15,862,362	27,045,943
(18,961,369)	(15,379,970)	(19,818,016)	(15,687,300)	(15,983,109)	(27,186,213)
<u>118,188</u>	<u>(207,556)</u>	<u>(145,110)</u>	<u>157,850</u>	<u>(2,832,123)</u>	<u>5,308,357</u>
<u>\$ (688,412)</u>	<u>\$ 2,381,050</u>	<u>\$ 5,886,809</u>	<u>\$ 11,062,881</u>	<u>\$ 6,692,839</u>	<u>\$ 17,882,660</u>
26.4%	14.7%	15.1%	14.4%	14.6%	11.2%

CITY OF AVONDALE, ARIZONA

ASSESSED VALUE, ESTIMATED ACTUAL VALUE AND ASSESSMENT RATIOS OF TAXABLE PROPERTY

LAST TEN FISCAL YEARS

Fiscal Year	Residential Owner Occupied Property	Residential Rental Property	Commercial and Industrial Property	Agricultural and Vacant Property	Railroad Property	Residential Historical Property
2018	\$ 149,686,468	\$ 92,400,739	\$ 126,136,282	\$ 90,465,727	\$ 900,915	\$ -
2017	137,409,818	90,426,563	118,616,719	88,235,352	333,596	25,525
2016	128,105,887	88,843,605	117,207,777	87,680,276	366,205	31,770
2015	132,908,565	93,145,393	118,877,122	93,364,094	394,449	146,376
2014	113,438,968	75,890,104	116,797,461	99,601,422	363,777	166,031
2013	134,867,886	67,361,870	132,735,913	102,602,512	358,763	-
2012	151,109,673	72,776,766	157,022,411	117,887,415	335,769	-
2011	196,235,454	85,274,561	212,453,689	149,830,377	364,145	-
2010	292,044,995	92,215,354	212,214,174	154,112,452	376,314	-
2009	373,154,615	92,685,824	186,089,522	135,969,538	415,276	-

Assessment Ratios³ of Taxable Property

Fiscal Year	Residential Owner Occupied Property	Residential Rental Property	Commercial and Industrial Property	Agricultural and Vacant Property	Railroad Property	Residential Historical Property
2018	10.0 %	10.0 %	18.0 %	15.0 %	15.0 %	5.0 %
2017	10.0	10.0	18.0	15.0	15.0	5.0
2016	10.0	10.0	18.0	15.0	14.0	5.0
2015	10.0	10.0	18.5	16.0	15.0	5.0
2014	10.0	10.0	19.0	16.0	16.0	5.0
2013	10.0	10.0	19.5	16.0	15.0	5.0
2012	10.0	10.0	20.0	16.0	15.0	5.0
2011	10.0	10.0	20.0	16.0	15.0	5.0
2010	10.0	10.0	21.0	16.0	17.0	5.0
2009	10.0	10.0	21.0	16.0	18.0	5.0

¹ Prior to FY 2016, secondary assessed property value was used for secondary ad valorem taxes levied for debt service. Beginning in FY 2016, with a voter-approved Constitutional amendment, secondary ad valorem taxes are now levied on limited assessed property value.

² Property in Maricopa County is required to be reassessed yearly. Tax rates are determined using assessed using property assessed values and the required tax levy. The assessed value divided by 100 multiplied by the tax rate determines the taxes billed.

³ The assessment ratios for each property classification is applied to the total property assessed value to determine the respective assessed valuation for tax levy purposes.

⁴ Includes tax exempt property.

Source: Maricopa County Assessor's Office and Arizona Department of Revenue, *Abstract of the Assessment Roll* and the Maricopa County Tax Rate Book web publication for the applicable years.

Municipal Property Improvements	Gross Valuation	Less: Tax Exempt Real Property	Total Property Assessed Value¹	Total Direct Tax Rate	Estimated Actual Taxable Value	Assessed Value as a Percentage of Actual Value⁴
\$ 45,801	\$ 459,635,932	\$ (88,713,776)	\$ 370,922,156	1.60	\$ 3,734,960,323	12.31 %
44,438	435,092,011	(85,989,407)	349,102,604	1.70	3,534,105,675	12.31
-	422,235,520	(85,077,008)	337,158,512	1.75	3,355,310,655	12.58
59,574	438,895,573	(88,208,960)	350,686,613	1.75	3,478,927,843	12.62
-	406,257,763	(91,282,079)	314,975,684	1.80	3,118,036,373	13.03
-	437,926,944	(92,254,812)	345,672,132	1.33	3,329,277,135	13.15
-	499,132,034	(96,728,376)	402,403,658	1.33	3,762,818,468	13.26
-	644,158,226	(119,852,877)	524,305,349	1.11	4,765,228,782	13.52
-	750,963,289	(109,200,312)	641,762,977	1.11	5,772,182,553	13.01
-	788,314,775	(84,159,774)	704,155,001	1.11	6,319,124,006	12.48

CITY OF AVONDALE, ARIZONA
PROPERTY TAX RATES - DIRECT AND OVERLAPPING GOVERNMENTS
LAST TEN FISCAL YEARS
(rate per \$100 of assessed valuation)

Fiscal Year	Direct Rate		Overlapping Rates ¹			
	City of Avondale, Arizona	County		Tolleson Elementary School District No. 17	Tolleson Union High School District No. 214	Pendergast Elementary School District No. 92
		County- wide	Community College			
2018 Primary	0.75	1.40	1.20	2.12	2.16	2.26
2018 Secondary	<u>0.85</u> 1.60	0.00	0.21	2.35	1.77	4.60
2017 Primary	0.77	1.40	1.24	2.22	2.27	2.16
2017 Secondary	<u>0.93</u> 1.70	0.00	0.23	2.59	1.29	4.53
2016 Primary	0.78	1.36	1.26	2.07	2.40	2.53
2016 Secondary	<u>0.97</u> 1.75	0.00	0.23	2.71	1.61	4.35
2015 Primary	0.78	1.32	1.28	1.98	2.86	2.68
2015 Secondary	<u>0.97</u> 1.75	0.00	0.24	2.59	1.68	4.51
2014 Primary	0.79	1.28	1.29	1.92	3.22	2.76
2014 Secondary	<u>1.02</u> 1.81	0.00	0.24	2.27	2.27	4.51
2013 Primary	0.68	1.24	1.16	2.38	2.30	2.05
2013 Secondary	<u>0.66</u> 1.34	0.00	0.22	1.67	2.54	4.33
2012 Primary	0.58	1.24	1.01	2.47	1.96	1.82
2012 Secondary	<u>0.75</u> 1.33	0.00	0.20	2.46	2.11	4.79
2011 Primary	0.45	1.05	0.79	2.19	1.51	1.69
2011 Secondary	<u>0.65</u> 1.10	0.00	0.18	3.11	1.21	4.11
2010 Primary	0.36	0.99	0.72	0.98	1.06	1.77
2010 Secondary	<u>0.74</u> 1.10	0.00	0.16	2.93	1.04	3.44
2009 Primary	0.37	1.03	0.78	2.46	1.60	1.90
2009 Secondary	<u>0.73</u> 1.11	0.00	0.16	1.69	1.01	3.02

¹ Overlapping rates are those of local and county governments that apply to the property owners within the City of Avondale. Not all overlapping rates apply to all Avondale property owners. For example, although county property tax rates apply to all city property owners, the school district rates apply only to those property owners whose property is located within the district's geographical boundaries.

Source: Maricopa County Finance Department web publication, 2018 Tax Rates Maricopa County, Arizona.

Overlapping Rates ¹				
Litchfield Elementary School District No. 79	Avondale Elementary School District No. 44	Agua Fria Union High School District No. 216	Littleton Elementary School District No. 65	Liberty Elementary School District No. 25
2.04	2.28	2.46	2.42	2.07
1.44	2.94	1.26	3.46	1.66
2.24	3.31	2.08	2.33	2.00
1.57	3.09	1.39	3.64	1.80
2.26	3.11	2.07	2.48	2.55
1.57	3.12	1.19	3.45	1.72
2.33	2.74	2.99	2.59	2.80
1.45	3.06	1.21	3.31	1.70
2.44	2.31	2.29	2.42	1.91
1.54	2.33	1.28	3.55	1.55
2.31	2.02	2.04	2.45	2.07
1.58	2.31	1.13	1.93	1.47
1.94	2.77	1.69	1.33	1.87
1.32	2.03	0.99	2.47	1.33
1.62	1.51	1.62	1.60	1.96
1.30	1.43	0.83	1.87	1.34
1.62	1.96	2.04	2.51	1.49
1.01	1.36	0.65	1.26	1.18
1.76	1.87	1.88	2.38	1.70
0.77	1.76	0.52	1.39	1.00

CITY OF AVONDALE, ARIZONA
PRINCIPAL PROPERTY TAXPAYERS
CURRENT YEAR AND NINE YEARS AGO

Schedule 7

Taxpayer	2018			2009		
	Taxable Assessed Value ¹	Rank	Percentage of Total Taxable Assessed Value	Taxable Assessed Value ¹	Rank	Percentage of Total Taxable Assessed Value
J&J Coldwater LLC	\$ 7,184,868	1	1.94 %	\$ -	-	- %
Inland Western Avondale McDowell LLC	5,573,172	2	1.50	6,665,784	2	1.04
Phoenix Speedway Corp	4,895,134	3	1.32	7,265,125	1	1.13
Arizona Public Service Company	4,046,892	4	1.09	3,817,905	7	0.59
Moreland Arizona Properties LLC	3,569,650	5	0.96	4,683,357	4	0.73
Gateway Crossing SC LLC	3,384,430	6	0.91	-	-	-
Avondale Commerce LLC	3,257,132	7	0.88	3,190,730	9	0.50
PRCP-Avondale I LLC	3,105,529	8	0.84	-	-	-
Mechanic (AZ) QRS 15-41 INC	3,102,568	9	0.84	3,587,378	8	0.56
Smiths Food & Drug Centers INC	3,014,802	10	0.81	4,635,912	5	0.72
Raintree Pad 2 LLC	-	-	-	4,831,633	3	0.75
D H Ventures LLC	-	-	-	3,834,790	6	0.60
Alameda Avondale LLC Etal	-	-	-	3,187,502	10	0.50
Total	<u>\$ 41,134,177</u>		<u>11.09 %</u>	<u>\$ 45,700,116</u>		<u>7.12 %</u>

¹ Prior to FY 2016, secondary assessed property value was used for secondary ad valorem taxes levied for debt service. Beginning in FY 2016, with a voter-approved Constitutional amendment, secondary ad valorem taxes are now levied on limited assessed property value.

Source: Maricopa County Assessor records.

CITY OF AVONDALE, ARIZONA
PROPERTY TAX LEVIES AND COLLECTIONS
LAST TEN FISCAL YEARS

Schedule 8

Fiscal Year	Original Property Tax Levy	Collections within the Fiscal Year of the Levy		Collections in Subsequent Years	Total Collections to Date	
		Amount	Percentage of Levy		Amount	Percentage of Levy
2018	\$ 5,941,343	\$ 5,858,479	98.61 %	\$ 65,849	\$ 5,924,328	99.71 %
2017	5,913,568	5,825,124	98.50	79,359	5,904,483	99.85
2016	5,882,634	5,781,431	98.28	72,903	5,854,334	99.52
2015	5,948,064	5,830,887	98.03	68,212	5,899,099	99.18
2014	5,659,729	5,545,279	97.98	33,176	5,578,455	98.56
2013	4,589,635	4,474,610	97.49	103,740	4,578,350	99.75
2012	5,294,450	5,131,506	96.92	111,331	5,242,837	99.03
2011	5,632,413	5,413,477	96.11	133,448	5,546,925	98.48
2010	6,843,611	6,526,469	95.37	250,342	6,776,811	99.02
2009	7,102,059	6,710,295	94.48	305,457	7,015,752	98.78

¹ Property taxes are payable in two installments. The first installment becomes due on the first day of October and is delinquent after the first business day of November. The second installment is due on the first day of March and becomes delinquent after the first business day of May. Delinquent property taxes are subject to a penalty of 16% per annum, prorated at a monthly rate of 1.33%.

Source: Maricopa County Budget Department and Maricopa County Treasurer's Office, *Secured Levy Report Through June 30, 2018*.

**DIRECT AND OVERLAPPING NET LIMITED ASSESSED PROPERTY VALUES AND TAX RATES
PER \$100 ASSESSED VALUATION**

Overlapping Jurisdiction	2017-18 Net Limited Assessed Value for Tax Purposes	2017-18 Total Tax Rate Per \$100 Net Limited Assessed Value for Tax Purposes	
State of Arizona	\$ 59,406,279,473	None	
Maricopa County	38,251,891,249	\$ 1.8884	(a)
Maricopa County Community College District	38,251,891,249	1.4231	
Maricopa County Fire District Assistance Tax	38,251,891,249	0.0102	
Maricopa County Special Health Care District	38,251,891,249	0.2851	
Maricopa County Library District	38,251,891,249	0.0556	
Maricopa County Flood Control District	34,709,158,781	0.1792	
Central Arizona Water Conservation District	28,236,246,402	0.1400	
Tolleson Elementary School District No. 17	171,718,118	4.4668	
Liberty Elementary School District No. 25	226,442,533	3.7234	
Avondale Elementary School District No. 44	345,639,908	5.2170	
Littleton Elementary School District No. 65	231,909,297	5.8808	
Litchfield Elementary School District No. 79	756,560,104	3.4763	
Pendergast Elementary School District No. 92	298,648,781	6.8545	
Agua Fria Union High School District No. 216	1,102,200,012	3.7145	
Buckeye Union High School District No. 201	670,274,018	3.3382	
Tolleson Union High School District No. 214	1,063,693,901	3.9377	
Western Maricopa Education Center	13,863,084,518	0.1780	
City of Avondale	370,922,156	1.6000	

(a) Includes the "State Equalization Assistance Property Tax" which is levied by the County and has been set at \$0.4875 per \$100 Net Limited Assessed Property Value for fiscal year 2017-18. Such amount is adjusted annually pursuant to Arizona Revised Statutes, Section 41-1276.

Source: *Property Tax Rates and Assessed Values*, Arizona Tax Research Association.



CITY OF AVONDALE, ARIZONA
TRANSACTION PRIVILEGE TAXES BY INDUSTRY CLASSIFICATION
LAST TEN FISCAL YEARS

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
Retail	\$19,845,087	\$18,244,074	\$18,832,147	\$20,938,049	\$22,749,307
Construction	3,693,612	2,061,391	1,188,487	1,415,172	1,323,781
Real Estate & Rentals	3,477,613	3,487,130	3,890,097	4,131,206	3,909,022
Communication & Utilities	1,997,716	2,061,554	2,022,346	2,041,519	2,082,661
Restaurants & Bars	2,434,741	2,277,265	2,459,856	2,695,339	2,875,647
Amusement	751,050	661,557	592,433	590,559	616,874
Use Tax	212,186	204,191	201,255	249,884	235,002
Equipment Rental	549,111	518,471	531,363	541,950	579,379
All Others	297,480	353,481	302,290	284,956	311,003
Total	<u>\$33,258,596</u>	<u>\$29,869,114</u>	<u>\$30,020,274</u>	<u>\$32,888,634</u>	<u>\$34,682,676</u>

	<u>Year-over-Year Increase (Decrease)</u>				
Retail	(15.7) %	(8.1) %	3.2 %	11.2 %	8.7
Construction	(16.9)	(44.2)	(42.3)	19.1	(6.5)
Real Estate & Rentals	(0.9)	0.3	11.6	6.2	(5.4)
Communication & Utilities	(0.9)	3.2	(1.9)	0.9	2.0
Restaurants & Bars	(6.0)	(6.5)	8.0	9.6	6.7
Amusement	(13.5)	(11.9)	(10.4)	(0.3)	4.5
Use Tax	(14.2)	(3.8)	(1.4)	24.2	(6.0)
Equipment Rental	(9.3)	(5.6)	2.5	2.0	6.9
All Others	(5.0)	18.8	(14.5)	(5.7)	9.1
Total	<u>(12.8) %</u>	<u>(10.2) %</u>	<u>0.5 %</u>	<u>9.6 %</u>	<u>5.5</u>

¹ Totals may differ from governmental activities tax revenues due to differences in

Source: City records.

Schedule 10

2014	2015	2016	2017	2018
\$24,510,356	\$26,986,156	\$28,562,740	\$30,102,662	\$31,705,835
1,139,469	1,155,268	1,346,678	2,952,141	3,648,705
4,025,883	4,278,607	4,280,205	4,300,470	4,494,779
2,049,404	2,031,513	2,142,543	2,022,266	1,933,124
3,226,930	3,164,390	3,487,810	3,780,226	4,311,152
666,567	679,671	734,094	672,178	698,255
278,274	340,492	346,127	440,636	488,579
665,089	739,617	805,719	1,135,654	1,069,078
318,829	385,657	430,470	466,508	516,266
<u>\$36,880,801</u>	<u>\$39,761,371</u>	<u>\$42,136,386</u>	<u>\$45,872,741</u>	<u>\$48,865,773</u>

Year-over-Year Increase (Decrease)				
7.7 %	10.1 %	5.8 %	5.4 %	5.3 %
(13.9)	1.4	16.6	119.2	23.6
3.0	6.3	0.0	0.5	4.5
(1.6)	(0.9)	5.5	(5.6)	(4.4)
12.2	(1.9)	10.2	8.4	14.0
8.1	2.0	8.0	(8.4)	3.9
18.4	22.4	1.7	27.3	10.9
14.8	11.2	8.9	40.9	(5.9)
2.5	21.0	11.6	8.4	10.7
<u>6.3 %</u>	<u>7.8 %</u>	<u>6.0 %</u>	<u>8.9 %</u>	<u>6.5 %</u>

CITY OF AVONDALE, ARIZONA
RATIOS OF OUTSTANDING DEBT BY TYPE
LAST TEN FISCAL YEARS

(amounts expressed in thousands, except per capita amount)

Fiscal Year	Governmental Activities ¹					Capital Leases
	General	HURF	Municipal	Pledged	Refunding	
	Obligation		Development	Revenue		
	Bonds	Bonds	Corporation		Obligations ²	
			Bonds ²			
2018	\$ 23,999	\$ -	\$ -	\$ 24,738	\$ 4,542	
2017	22,315	330	-	30,175	273	
2016	24,762	720	32,902	5,063	-	
2015	26,540	1,093	34,899	7,474	-	
2014	28,598	1,451	36,823	9,580	-	
2013	31,596	1,800	38,679	9,641	137	
2012	34,449	2,133	58,144	-	551	
2011	37,237	2,456	63,275	-	948	
2010	40,085	2,780	67,350	-	1,329	
2009	13,450	3,085	72,042	-	1,727	

¹ Amounts are presented net of unamortized discounts and premiums.

² The City issued Pledged Revenue Refunding Obligations and refunded all outstanding Municipal Development Corporation Bonds in fiscal year 2017.

³ See Demographics and Economic Statistics Schedule on page 177 for personal income and population data.

Source: City records.

Business-Type Activities ¹							
Water and Sewer System Revenue Obligations	Municipal Development Corporation Bonds ²	Pledged Revenue Refunding Obligations ²	WIFA Loans	Total Primary Government	Percentage of Personal Income ³	Per Capita ³	
\$ 10,172	\$ -	\$ 700	\$ -	\$ 64,151	1.72 %	786	
11,110	-	843	-	65,046	1.81	812	
2,472	1,177	-	-	67,096	2.02	851	
2,980	1,240	-	-	74,226	2.25	951	
3,190	1,589	-	-	81,231	2.49	1,048	
4,770	1,696	-	-	88,319	2.79	1,116	
6,785	1,800	-	-	103,862	3.74	1,327	
8,625	2,166	-	-	114,707	4.07	1,482	
8,625	2,085	-	-	122,254	4.29	1,604	
1,225	6,038	-	7,235	104,802	3.69	1,356	

**CITY OF AVONDALE, ARIZONA
LEGAL DEBT MARGIN INFORMATION
LAST TEN FISCAL YEARS**

	2009	2010	2011	2012
Property Assessed Value ²	\$ 704,155,001	\$ 641,762,977	\$ 524,305,349	\$ 402,403,658
<u>20% Limitation</u>				
Debt limit	140,831,000	128,352,595	104,861,070	80,480,732
Net debt applicable to limit	<u>11,785,000</u>	<u>38,570,000</u>	<u>35,805,000</u>	<u>33,195,000</u>
Legal debt margin	<u>\$ 129,046,000</u>	<u>\$ 89,782,595</u>	<u>\$ 69,056,070</u>	<u>\$ 47,285,732</u>
Total net debt applicable to the limit as a percentage of debt limit	8.4%	30.1%	34.1%	41.2%

<u>6% Limitation</u>				
Debt limit	\$ 42,249,300	\$ 38,505,779	\$ 31,458,321	\$ 24,144,219
Net debt applicable to limit	<u>1,665,000</u>	<u>1,515,000</u>	<u>1,355,000</u>	<u>1,190,000</u>
Legal debt margin	<u>\$ 40,584,300</u>	<u>\$ 36,990,779</u>	<u>\$ 30,103,321</u>	<u>\$ 22,954,219</u>
Total net debt applicable to the limit as a percentage of debt limit	3.9%	3.9%	4.3%	4.9%

¹ Under the provisions of the Arizona Constitution, the City's combined outstanding general obligation bonded debt for water, sewer, light, open space preserves, parks, playgrounds and recreational facilities may not exceed 20% of the City's net secondary assessed valuation, nor may general obligation bonded debt for all other purposes exceed 6% of the City's net secondary assessed valuation. In fiscal year 2008, the State amended the law and moved streets and public safety to the 20% limitation from the 6% limitation.

² Prior to FY 2016, property assessed value was based on secondary assessed property value. Beginning in FY 2016, with a voter-approved Constitutional amendment, property assessed value is based on full cash assessed property value.

Source: Maricopa County Assessor and City records.

Schedule 12

				2017	2018
Legal Debt Margin Calculation:					
Net assessed valuation:				463,069,349	510,270,136
Debt limit (20% of assessed value):				92,613,870	102,054,027
Less amount of debt applicable to limit:					
General obligation bonds outstanding				22,085,000	21,740,000
Less fund balance available for repayment of general obligation debt				(218,803)	(2,158,299)
Total net debt applicable to the limit				21,866,197	19,581,701
Legal debt margin				70,747,673	82,472,326
2013	2014	2015	2016 ²	2017 ²	2018 ²
\$ 345,672,132	\$ 314,975,684	\$ 350,686,613	\$ 427,620,861	\$ 463,069,349	\$ 510,270,136
69,134,426	62,995,137	70,137,323	85,524,172	92,613,870	102,054,027
30,530,000	27,730,000	25,880,000	24,315,000	21,866,197	19,581,701
<u>\$ 38,604,426</u>	<u>\$ 35,265,137</u>	<u>\$ 44,257,323</u>	<u>\$ 61,209,172</u>	<u>\$ 70,747,673</u>	<u>\$ 82,472,326</u>
44.2%	44.0%	36.9%	28.4%	23.6%	19.2%
Legal Debt Margin Calculation:					
Net assessed valuation:				463,069,349	510,270,136
Debt limit (6% of assessed value):				27,784,161	30,616,208
Less amount of debt applicable to limit:					
General obligation bonds outstanding				225,000	-
Less fund balance available for repayment of general obligation debt				-	-
Total net debt applicable to the limit				225,000	-
Legal debt margin				27,559,161	30,616,208
\$ 20,740,328	\$ 18,898,541	\$ 21,041,197	\$ 25,657,252	\$ 27,784,161	\$ 30,616,208
1,015,000	830,000	635,000	435,000	225,000	-
<u>\$ 19,725,328</u>	<u>\$ 18,068,541</u>	<u>\$ 20,406,197</u>	<u>\$ 25,222,252</u>	<u>\$ 27,559,161</u>	<u>\$ 30,616,208</u>
4.9%	4.4%	3.0%	1.7%	0.8%	0.0%

CITY OF AVONDALE, ARIZONA
AVONDALE WATER AND SEWER SYSTEMS
PLEDGED REVENUE COVERAGE
LAST TEN FISCAL YEARS

	2009	2010	2011	2012
Total operating revenues ¹	\$ 18,073,444	\$ 18,357,018	\$ 18,416,763	\$ 19,984,828
Total operating expenses ²	14,419,200	13,843,483	14,591,625	13,850,258
Net operating income	3,654,244	4,513,535	3,825,138	6,134,570
Other revenues	3,563,462	1,846,783	874,992	633,797
Net revenues before debt service	<u>\$ 7,217,706</u>	<u>\$ 6,360,318</u>	<u>\$ 4,700,130</u>	<u>\$ 6,768,367</u>
Debt service ³	\$ 2,441,059	\$ 2,437,250	\$ 2,193,686	\$ 2,287,400
Debt service coverage	2.96	2.61	2.14	2.96

¹ Includes all water and sewer operating revenues.

² Excludes depreciation and interest expenses.

³ Debt service includes all bonds having a water and sewer system revenue pledge.

Note: See Note 9 - Long-term Obligations on pages 82-86 for additional detailed information on the City's long-term debt and pledged revenues.

Source: City records

Schedule 13

2013	2014	2015	2016	2017	2018
\$ 19,715,295	\$ 20,231,533	\$ 19,580,966	\$ 21,267,916	\$ 23,838,505	\$ 25,588,712
14,301,632	14,321,784	14,030,221	13,969,692	14,413,815	13,875,307
5,413,663	5,909,749	5,550,745	7,298,224	9,424,690	11,713,405
376,262	928,994	1,560,864	3,791,014	4,186,861	4,491,307
<u>\$ 5,789,925</u>	<u>\$ 6,838,743</u>	<u>\$ 7,111,609</u>	<u>\$ 11,089,238</u>	<u>\$ 13,611,551</u>	<u>\$ 16,204,712</u>
\$ 1,723,741	\$ 578,600	\$ 575,100	\$ 576,300	\$ 1,166,883	\$ 1,347,593
3.36	11.82	12.37	19.24	11.66	12.02

**CITY OF AVONDALE, ARIZONA
ACTUAL EXCISE TAX REVENUES
LAST TEN FISCAL YEARS**

Source	2009	2010	2011	2012
City sales tax	\$ 32,618,773	\$ 29,664,531	\$ 30,079,230	\$ 32,639,353
State sales tax	5,518,183	5,089,719	5,351,475	5,957,260
State revenue sharing	10,195,604	8,208,394	6,750,611	6,434,543
Utility and cable franchise fees	1,033,993	1,067,061	1,095,000	1,096,920
Licenses and permits	972,685	1,810,205	810,508	827,949
Fines and forfeitures	850,862	1,328,659	1,032,246	1,047,582
Totals	\$ 51,190,100	\$ 47,168,569	\$ 45,119,070	\$ 48,003,607

¹ This schedule has been presented to meet the City's ongoing debt disclosure requirements.

Source: City records.

Schedule 14

2013	2014	2015	2016	2017	2018
\$ 35,455,829	\$ 37,387,063	\$ 40,533,299	\$ 43,026,818	\$ 46,288,365	\$ 49,355,518
6,240,221	6,635,966	6,967,295	7,217,550	7,402,225	7,970,742
7,787,548	8,497,693	9,229,081	9,179,045	9,871,106	10,265,600
1,101,693	1,132,811	1,150,766	1,090,134	1,135,350	1,256,448
1,041,295	846,554	1,263,670	1,580,691	2,652,563	3,202,591
1,166,102	1,000,841	1,208,797	1,105,057	937,816	1,095,068
<u>\$ 52,792,688</u>	<u>\$ 55,500,928</u>	<u>\$ 60,352,908</u>	<u>\$ 63,199,295</u>	<u>\$ 68,287,425</u>	<u>\$ 73,145,967</u>

CITY OF AVONDALE, ARIZONA
RATIOS OF GENERAL BONDED DEBT OUTSTANDING
LAST TEN FISCAL YEARS

Schedule 15

Fiscal Year	Property Assessed Value ^{1,2}	General Obligation Bonds ⁴	Less: Amounts Available in Debt Service Fund	Net General Obligation Bonded Debt ⁴	Percentage of Net Bonded Debt to Estimated Actual Taxable Value of Property	Per Capita ³
2018	\$ 370,922,156	\$ 23,999,105	\$ 2,158,299	\$ 21,840,806	5.89 %	\$ 268
2017	349,102,604	22,315,363	218,803	22,096,560	6.33	276
2016	337,158,512	24,761,775	555,127	24,206,648	7.18	307
2015	350,686,613	26,539,823	182,462	26,357,361	7.52	338
2014	314,975,684	28,597,872	52,625	28,545,247	9.06	368
2013	345,672,132	31,595,918	1,158,775	30,437,143	8.81	385
2012	402,403,658	34,448,966	3,126,687	31,322,279	7.78	400
2011	524,305,349	37,237,014	4,343,222	32,893,792	6.27	425
2010	641,762,977	40,085,000	5,371,632	34,713,368	5.41	449
2009	704,155,001	13,450,000	5,406,716	8,043,284	1.14	104

¹ Prior to FY 2016, secondary assessed property value was used for secondary ad valorem taxes levied for debt service. Beginning in FY 2016, with a voter-approved Constitutional amendment, secondary ad valorem taxes are now levied on limited assessed property value.

² See Assessed Value, Estimated Actual Value and Assessment Ratios of Taxable Property Schedule on page 151 for property assessed valuation data.

³ See Demographics and Economic Statistics Schedule on page 177 for population data.

⁴ Bonds amounts are presented net of unamortized discounts and premiums.

Source: Maricopa County Assessor's Office and Arizona Department of Revenue, *Abstract of the Assessment Role (1999-2016)* and city records.

CITY OF AVONDALE, ARIZONA
DIRECT AND OVERLAPPING GOVERNMENTAL ACTIVITIES DEBT
AS OF JUNE 30, 2018
(amounts expressed in thousands)

Schedule 16

Governmental Unit	Debt Outstanding ²	Proportion Applicable to the City ³	
		Approximate Percent	Net Debt Amount
Overlapping debt—General obligation bonded debt:			
State of Arizona	None	0.62 %	None
Maricopa County	None	0.97	None
Maricopa County Community College District	\$ 445,570	0.97	\$ 4,322
Maricopa County Special Health Care District	37,000	0.97	359
Tolleson Elementary School District No. 17	5,955	8.73	520
Avondale Elementary School District No. 44	28,885	22.58	6,522
Littleton Elementary School District No. 65	21,530	38.01	8,184
Litchfield Elementary School District No. 79	40,110	33.26	13,341
Pendergast Elementary School District No. 92	32,405	12.78	4,141
Agua Fria Union High School District No. 216	82,825	11.64	9,641
Tolleson Union High School District No. 214	21,200	22.85	4,844
Western Maricopa Education Center District No. 402	138,655	2.65	3,674
Total overlapping repaid with property taxes			55,548
Direct debt—City of Avondale:			
General obligation bonded debt	23,999	100.00	23,999
Pledged revenue refunding obligations	24,738	100.00	24,738
Capital lease	4,542	100.00	4,542
Total direct debt			53,279
Total Direct and Overlapping Debt			\$ 108,827

¹ Overlapping governments are those that coincide, at least in part, with the geographic boundaries of the City of Avondale. This schedule estimates the portion of outstanding debt of those overlapping governments that is borne by the residents and businesses of the City. This process recognizes that, when considering a City's ability to issue and repay long-term debt, the entire debt burden borne by residents and business should be taken into account. However, this does not imply that every taxpayer is a resident, and therefore responsible for repaying the debt of each overlapping government.

² General obligation bonded debt does not include outstanding principal amounts of certificates of participation, revenue obligations, loan obligations, improvement bonds, or other debt not secured by ad valorem property taxes. Includes total stated principal amount of general obligation bonds outstanding, however, does not include presently authorized but unissued general obligation bonds of such jurisdictions which may be issued in the future as indicated in the following table. Additional bonds may be authorized by voters within overlapping jurisdictions pursuant to future elections. Direct bonded debt is presented net of unamortized bond discounts and premiums.

³ Proportion applicable to the City for overlapping debt is computed on the ration of Net Assessed Limited Property Value for 2017-18.

Source: The various entities, Property Tax Rates and Assessed Values, Arizona Tax Research Association, Treasurer and Assessor of Maricopa County records, and city records.

**CITY OF AVONDALE, ARIZONA
SOURCES OF THE WATER SYSTEM
LAST SEVEN CALENDAR YEARS**

Schedule 17

Legal Availability (Acre-Feet)	2012	2013	2014	2015	2016	2017	2018
Central Arizona Project (CAP) ²	5,416	5,416	5,416	5,416	5,416	5,416	5,416
Salt River Project (SRP) ³	15,913	15,950	15,950	16,030	15,364	15,364	15,394
City-owned wells ⁴	35,779	35,779	35,779	35,779	35,779	35,779	35,779
Reclaimed water delivered to City's underground storage facility (USF) ⁵	3,830	6,131	6,131	5,766	5,616	5,616	5,856
Underground Storage Facility (USF) ⁶	15,000	20,000	20,000	20,000	20,000	20,000	20,000
	<u>75,938</u>	<u>83,276</u>	<u>83,276</u>	<u>82,991</u>	<u>82,175</u>	<u>82,175</u>	<u>82,445</u>
Volume Produced (Acre-Feet)							
Central Arizona Project (CAP) ⁷	6,648	5,416	5,416	5,380	5,416	5,416	5,383
Salt River Project (SRP) ⁸	5,724	6,482	6,204	3,712	5,855	5,855	6,117
City-owned wells ⁹	14,463	14,393	13,177	13,727	13,974	13,974	14,056
Reclaimed water delivered to City's underground storage facility (USF) ¹⁰	2,092	4,308	5,695	4,808	5,616	5,616	5,856
Underground Storage Facility (USF) ¹¹	12,121	10,790	11,936	9,533	11,471	11,471	11,973
	<u>41,048</u>	<u>41,389</u>	<u>42,428</u>	<u>37,160</u>	<u>42,332</u>	<u>42,332</u>	<u>43,385</u>
Volume Produced (Gallons in Millions)							
Central Arizona Project (CAP)	2,166	1,765	1,765	1,753	1,765	1,765	1,754
Salt River Project (SRP)	1,865	2,112	2,022	1,210	1,907	1,907	1,993
City-owned wells	4,713	4,690	4,294	4,473	4,553	4,553	4,580
Reclaimed water delivered to City's underground storage facility (USF)	682	1,404	1,856	1,567	1,830	1,830	1,908
Underground Storage Facility (USF)	3,950	3,515	3,889	3,106	3,737	3,737	3,901
	<u>13,376</u>	<u>13,486</u>	<u>13,826</u>	<u>12,109</u>	<u>13,792</u>	<u>13,792</u>	<u>14,136</u>

¹ This schedule has been presented to meet the City's ongoing debt disclosure requirements beginning in fiscal year 2012 so only seven years are presented. The City monitors and reports its water rights and related activities on a calendar year basis. This schedule is presented on the same basis.

² Includes the City's standard CAP Municipal and Industrial Contract Allocation.

³ According to SRP records, there were 4,700 acres of land legally eligible to receive SRP allocation of 3.3 acre-feet per acre.

⁴ Represents the capacity of active wells if run 24 hours a day, 365 days a year. The City can legally pump as much as its wells can produce.

⁵ Amount of water treated by the Wolf Water Resource Center.

⁶ Permitted capacity of the City's Underground Storage Facility.

⁷ Includes additional CAP allocation received from SRP as an exchange.

⁸ The City can only take the amount to satisfy their SRP customer demand.

⁹ Amount recovered from one or more of the City's wells for delivery to customers.

¹⁰ Amount of water that was recharged at the City's USF.

¹¹ Amount of water (surface and reclaimed) delivered to the City's USF.

Source: City Public Works Department.



CITY OF AVONDALE, ARIZONA
SCHEDULE OF WATER AND SEWER SALES, NUMBER OF CUSTOMERS,
AND OTHER FEES AND REVENUE
LAST EIGHT FISCAL YEARS

<u>Water System</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
Water Sales ²			
Residential	\$ 6,913,307	\$ 7,473,951	\$ 7,499,382
Commercial	3,888,735	4,204,097	4,163,085
Total	<u>\$ 10,802,042</u>	<u>\$ 11,678,048</u>	<u>\$ 11,662,467</u>
Number of Water Customers ³			
Residential	20,051	20,561	20,719
Commercial ⁴	1,304	1,342	1,346
Total	<u>21,355</u>	<u>21,903</u>	<u>22,065</u>
Other Fees and Revenue			
Meter Installation	\$ 20,290	\$ 13,620	\$ 17,210
Turn-on Fees	498,511	520,560	479,091
Interest Earnings	91,916	105,241	81,571
Total	<u>\$ 610,717</u>	<u>\$ 639,421</u>	<u>\$ 577,872</u>
<u>Sewer System</u>			
Sewer Sales ²			
Residential	\$ 6,639,027	\$ 6,846,885	\$ 6,946,342
Commercial	820,553	846,244	793,124
Total	<u>\$ 7,459,580</u>	<u>\$ 7,693,129</u>	<u>\$ 7,739,466</u>
Number of Sewer Customers ³			
Residential	20,048	20,316	20,476
Commercial ⁴	1,244	1,287	1,288
Total	<u>21,292</u>	<u>21,603</u>	<u>21,764</u>
Other Fees and Revenue			
Tap Fees	\$ 12,900	\$ 5,100	\$ 9,900
Interest Earnings	69,657	86,915	57,036
Total	<u>\$ 82,557</u>	<u>\$ 92,015</u>	<u>\$ 66,936</u>

¹ This schedule has been presented to meet the City's ongoing debt disclosure requirements beginning in fiscal year 2011, so only eight years are presented.

² Sales revenues presented in this schedule may differ from enterprise fund revenues due to differences in reporting periods.

³ Customer counts reflect the number of unique customer accounts billed during the year.

⁴ Commercial customers include industrial and multi-unit customers. The City imposes the same user rates and fees on all commercial customers.

Source: City records.

Schedule 18

2014	2015	2016	2017	2018
\$ 7,628,120	\$ 7,267,073	\$ 8,049,255	\$ 8,677,097	\$ 9,324,192
4,233,400	3,885,595	4,334,215	5,255,829	5,589,036
<u>\$ 11,861,520</u>	<u>\$ 11,152,668</u>	<u>\$ 12,383,470</u>	<u>\$ 13,932,926</u>	<u>\$ 14,913,228</u>
20,804	21,053	21,260	26,032	25,954
1,436	1,359	1,353	1,343	1,352
<u>22,240</u>	<u>22,412</u>	<u>22,613</u>	<u>27,375</u>	<u>27,306</u>
\$ 26,640	\$ 45,060	\$ 124,283	\$ 135,593	\$ 132,060
479,471	455,755	425,777	457,448	414,507
66,008	148,629	126,072	208,814	411,330
<u>\$ 572,119</u>	<u>\$ 649,444</u>	<u>\$ 676,132</u>	<u>\$ 801,855</u>	<u>\$ 957,897</u>
\$ 7,042,305	\$ 7,025,034	\$ 7,413,869	\$ 8,081,505	\$ 8,573,843
842,036	885,157	916,321	894,066	966,950
<u>\$ 7,884,341</u>	<u>\$ 7,910,191</u>	<u>\$ 8,330,190</u>	<u>\$ 8,975,571</u>	<u>\$ 9,540,793</u>
20,640	20,806	21,012	25,187	25,261
1,295	1,296	1,280	618	631
<u>21,935</u>	<u>22,102</u>	<u>22,292</u>	<u>25,805</u>	<u>25,892</u>
\$ 15,600	\$ 23,400	\$ 72,300	\$ 81,143	\$ 80,400
54,127	58,242	40,392	60,775	129,569
<u>\$ 69,727</u>	<u>\$ 81,642</u>	<u>\$ 112,692</u>	<u>\$ 141,918</u>	<u>\$ 209,969</u>

CITY OF AVONDALE, ARIZONA
CURRENT YEAR STATISTICS
LAST SEVEN FISCAL YEARS

Statistics	2012	2013
General Obligation Bonds Outstanding	\$ 34,385,000	\$ 31,545,000
Water and Sewer System Revenue Obligations Outstanding	8,200,719	6,129,507
Excise Tax Revenue Bonded Debt Outstanding	57,329,000	472,585,492
Net Limited Assessed Property Value (formerly referred to as Primary Assessed Valuation)	400,801,769	344,925,286
Net Full Cash Assessed Value (formerly referred to as Secondary Assessed Valuation)	402,403,958	345,672,132
Estimated Net Full Cash Value	3,033,609,972	2,627,923,084

¹ This schedule has been presented to meet the City's ongoing debt disclosure requirements beginning in fiscal year 2012 so only seven years are presented.

Source: City records and State of Arizona Department of Revenue, *Abstract of the Assessment Roll*.

Schedule 19

2014	2015	2016	2017	2018
\$ 28,560,000	\$ 26,515,000	\$ 24,750,000	\$ 22,310,000	\$ 21,740,000
4,490,978	3,980,130	3,456,965	9,915,000	9,080,000
45,479,021	41,559,868	37,263,034	28,175,000	23,045,001
311,630,868	327,955,701	337,158,512	349,102,604	370,922,156
314,975,684	350,686,613	427,620,861	463,069,349	510,270,136
2,417,444,609	2,779,735,083	3,490,967,838	3,812,520,675	4,202,837,020

CITY OF AVONDALE, ARIZONA
DEMOGRAPHIC AND ECONOMIC STATISTICS
LAST TEN FISCAL YEARS

Schedule 20

Fiscal Year	Population⁴	Personal Income (in thousands)¹	Per Capita Personal Income¹	Estrella Mountain Community College Enrollment²	City of Avondale Unemployment Rate³	State of Arizona Unemployment Rate³
2018	81,621	\$ 3,719,714	\$ 45,573	15,385	4.4 %	4.7 %
2017	80,073	3,594,077	44,885	14,811	4.6	5.1
2016	78,885	3,317,351	42,053	14,404	5.2	5.8
2015	78,090	3,256,665	41,704	13,915	6.0	6.4
2014	77,511	3,267,554	42,156	14,507	7.0	7.5
2013	79,132	3,162,590	39,966	14,444	7.9	8.0
2012	78,256	2,778,566	35,506	14,562	9.1	8.9
2011	77,388	2,818,267	36,417	15,093	8.4	9.6
2010	76,238	2,847,642	37,352	14,273	8.4	9.5
2009	77,276	2,836,570	36,707	13,980	6.1	7.0

¹ Based on data obtained from the U.S. Department of Commerce, Bureau of Economic Analysis for Maricopa County.

² Obtained from Estrella Mountain Community College.

³ Based on data obtained from the U.S. Department of Labor, Bureau of Labor Statistics and Arizona Department of Economic Security.

⁴ Based on data obtained from the Maricopa Association of Governments, U.S. Census Bureau, and Arizona Department of Administration Office of Employment & Population Statistics.

CITY OF AVONDALE, ARIZONA
PRINCIPAL EMPLOYERS
CURRENT YEAR AND NINE YEARS AGO

Schedule 21

Employer	2018			2009		
	Number of Employees	Rank	Percentage of Total City Employment	Number of Employees	Rank	Percentage of Total City Employment
City of Avondale	560	1	1.35 %	500	4	1.39 %
Avondale Elementary School District 44	450	2	1.08	775	1	2.15
Frys Food Stores	430	3	1.03	245	7	0.68
Tolleson Union High School District 214	350	4	0.84	-	-	-
Littleton Elementary School District 65	310	5	0.75	-	-	-
Costco Wholesale	290	6	0.70	210	8	0.58
Maricopa County Community College District	280	7	0.67	-	-	-
Walmart	280	8	0.67	420	5	1.17
State of Arizona	280	9	0.67	-	-	-
Agua Fria Union High School District 216	270	10	0.65	725	2	2.01
Estrella Mountain Community College	-	-	-	530	3	1.47
Avondale Automotive INC	-	-	-	420	5	1.17
Baker Concrete Construction	-	-	-	385	6	1.07
Rudolfo Bros. Plastering, Inc.	-	-	-	200	9	0.55
Sam's Club	-	-	-	200	9	0.55
SunBridge Healthcare Corp.	-	-	-	200	9	0.55
Cummins Rock Mountain LLC	-	-	-	195	10	0.54
Total	3,500		8.41 %	5,005		13.88 %

Source: Maricopa Association of Governments Employer Database and U.S. Department of Labor, Bureau of Labor Statistics - MAG 2018 and 2009 Employer Database

CITY OF AVONDALE, ARIZONA
FULL-TIME EQUIVALENT CITY GOVERNMENT EMPLOYEES BY FUNCTION
LAST TEN FISCAL YEARS

Function	2009	2010	2011	2012	2013
General government					
City administration	9.0	9.0	10.0	10.0	9.0
Finance and budget	29.5	27.5	28.5	28.5	28.5
City court	14.0	14.0	13.0	13.0	13.0
Planning and building services	25.0	23.0	0.0	0.0	0.0
Other	40.0	37.2	36.2	36.2	28.0
Public safety					
Police					
Officers	112.5	121.8	120.8	120.8	133.0
Civilians	50.5	50.0	46.0	46.0	37.0
Fire					
Firefighters and officers	50.0	50.0	49.0	49.0	56.0
Civilians	10.0	8.0	8.0	8.0	3.0
Highways and streets					
Engineering and development services	19.0	18.0	34.0	34.0	20.0
Maintenance	14.0	10.0	10.0	10.0	23.0
Health and welfare	27.5	22.5	21.0	21.0	17.0
Economic and community development	3.0	1.0	3.0	3.0	9.0
Sanitation	20.0	18.0	19.0	19.0	21.2
Culture and recreation	45.0	38.0	29.0	29.0	33.0
Water resources	42.5	37.0	37.1	37.1	33.9
Sewer	20.5	19.0	18.9	18.9	20.9
Total	<u>532.0</u>	<u>504.0</u>	<u>483.5</u>	<u>483.5</u>	<u>485.5</u>

Source: City of Avondale, Arizona *Annual Budget and Financial Plan* for the applicable fiscal year.

Schedule 22

2014	2015	2016	2017	2018
9.0	11.0	10.0	10.0	10.0
28.5	28.5	29.5	29.5	29.5
13.0	13.0	13.0	13.0	14.0
0.0	0.0	0.0	0.0	0.0
40.0	40.0	45.5	40.5	40.6
124.0	127.0	128.0	128.0	139.0
47.0	45.0	47.0	54.0	45.0
71.0	63.0	63.0	65.0	66.0
3.0	11.0	12.0	10.0	11.0
28.0	17.0	16.0	29.0	30.0
12.0	10.0	12.0	9.3	9.3
19.8	10.0	10.0	24.5	24.5
4.0	4.0	4.0	4.0	4.0
18.0	35.8	36.8	20.3	20.5
28.3	33.0	26.3	27.8	26.8
35.1	33.1	33.1	34.5	33.8
20.9	21.1	21.1	21.5	21.8
<u>501.5</u>	<u>502.5</u>	<u>507.3</u>	<u>520.9</u>	<u>525.8</u>

CITY OF AVONDALE, ARIZONA
OPERATING INDICATORS BY FUNCTION
LAST TEN FISCAL YEARS

Function	2009	2010	2011	2012
Police				
Calls for service	74,929	73,884	78,961	77,800
Citations	4,950	6,167	6,487	7,348
Physical arrests	4,113	3,080	4,234	3,461
Fire				
Number of emergency responses	6,002	5,965	6,057	6,601
Inspections	3,881	3,077	3,296	3,041
Number of fires extinguished	503	493	451	241
Sanitation				
Refuse collected (tons per day)	146	134	141	132
Recyclables collected (tons per day)	49	46	52	48
Water				
New connections	22,925	22,992	23,251	23,616
Water mains breaks	26	12	10	14
Average daily consumption (thousands of gallons)	11,664	11,850	11,300	13,992
Wastewater				
Average daily sewage treatment (thousands of gallons)	4,883	4,886	5,159	5,310

¹ Indicators are not available for the general government function.

Source: City departments.

Schedule 23

2013	2014	2015	2016	2017	2018
80,901	73,718	76,687	74,491	76,704	69,878
6,461	4,930	7,165	5,238	2,497	2,964
3,727	3,792	4,635	4,418	4,355	4,186
8,307	8,471	9,861	10,004	10,578	11,532
3,286	3,265	3,529	3,384	2,151	2,422
233	245	416	557	403	403
133	134	143	145	146	146
44	46	47	47	49	49
23,839	23,058	23,150	24,560	27,375	27,306
13	6	7	9	-	-
13,694	13,835	12,849	12,863	13,698	13,497
5,740	6,092	5,810	5,627	5,718	5,711

CITY OF AVONDALE, ARIZONA
CAPITAL ASSET STATISTICS BY FUNCTION
LAST TEN FISCAL YEARS

Function	2009	2010	2011	2012
Public Safety				
Police:				
Stations	4	4	4	5
Patrol units	90	93	116	101
Fire stations				
Stations	3	3	3	3
Regional training academy				
Fire trucks	7	7	7	7
Fire vehicles (excl. fire trucks)	16	16	16	16
Sanitation				
Collection trucks	17	18	18	18
Highways and streets				
Streets (miles)	284	285	285	286
Streetlights	8,016	7,739	7,739	7,771
Traffic signals	42	42	46	46
Culture and recreation				
Parks acreage	265	265	265	265
Parks	11	11	11	11
Racquetball courts	0	0	0	0
Basketball courts	14	14	18	18
Volleyball courts	0	0	0	0
Baseball fields	4	4	4	4
Softball fields	7	7	7	7
Soccer fields	12	12	14	14
Swimming pools	0	0	0	0
Tennis courts	2	2	2	2
Community centers	1	1	1	1
Dog park	1	1	1	1
Playgrounds	8	8	8	8
Amphitheatre	2	2	2	2
Ramadas	12	12	12	12
Football Field	0	1	1	1
Splash Pad	0	0	0	0
Pickleball Courts	0	0	0	0
Water				
Number of service connections	22,925	22,992	23,251	23,616
Water mains (miles)	316	318	330	330
Fire hydrants	2,686	2,703	2,711	2,714
Sewer				
Number of service connections	21,453	21,471	21,479	21,852
Sanitary sewers (miles)	235	235	235	235
Storm sewers (miles)	32	37	37	39
Wastewater				
Treatment plants	1	1	1	1

¹ Indicators are not available for the general government function.

Source: City departments.

Schedule 24

2013	2014	2015	2016	2017	2018
5	5	5	5	5	5
101	102	107	108	116	111
3	4	4	4	4	4
8	9	10	10	10	11
14	18	12	12	18	14
20	17	22	19	19	18
286	294	294	266	283	261
7,829	7,829	7,843	7,958	7,964	7,964
46	47	47	48	47	49
265	265	265	265	265	265
11	11	11	11	11	11
0	0	0	0	0	0
18	18	18	18	18	18
0	0	2	2	2	2
4	4	4	4	4	4
7	7	7	7	7	7
14	14	14	12	12	12
0	0	0	0	0	0
2	2	2	2	2	2
1	1	1	1	1	1
1	1	1	1	1	1
8	8	8	8	8	8
2	2	2	2	2	2
12	12	12	15	15	15
1	1	1	1	1	1
0	0	0	1	1	1
0	0	0	4	4	4
23,839	23,058	23,150	23,276	23,610	24,259
330	450	451	444	335	444
2,719	2,728	2,733	2,733	2,831	2,752
21,979	22,042	22,125	22,130	22,683	22,162
235	237	237	237	243	243
39	60	60	58	58	35
1	1	1	1	1	1



SINGLE AUDIT SECTION



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**INDEPENDENT AUDITORS' REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING
AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL
STATEMENTS PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS**

Honorable Mayor and City Council
City of Avondale, Arizona
Avondale, Arizona

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Avondale, Arizona (City), as of and for the year ended June 30, 2018, and the related notes to the financial statements, which collectively comprise the City's basic financial statements, and have issued our report thereon dated December 28, 2018.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the City's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the City's internal control. Accordingly, we do not express an opinion on the effectiveness of the City's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the City's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that have not been identified. We did identify certain deficiencies in internal control described in the accompanying scheduled of findings and questioned costs as items 2018-001 to 2018-003 that we consider to be material weaknesses.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the City's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

The City's Responses to Findings

City of Avondale, Arizona's responses to the findings identified in our audit is described in the accompanying schedule of findings and questioned costs. The City's responses were not subjected to the auditing procedures applied in the audit of the financial statements and, accordingly, we express no opinion on them.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the City's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the City's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

A handwritten signature in cursive script that reads "CliftonLarsonAllen LLP".

CliftonLarsonAllen LLP

Phoenix, Arizona
December 28, 2018



**INDEPENDENT AUDITORS' REPORT ON COMPLIANCE FOR EACH MAJOR
FEDERAL PROGRAM AND REPORT ON INTERNAL CONTROL OVER COMPLIANCE
REQUIRED BY THE UNIFORM GUIDANCE**

Honorable Mayor and City Council
City of Avondale, Arizona
Avondale, Arizona

Report on Compliance for Each Major Federal Program

We have audited the City of Avondale, Arizona (City)'s compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of the City's major federal programs for the year ended June 30, 2018. The City's major federal programs are identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs.

Management's Responsibility

Management is responsible for compliance with federal statutes, regulations, and the terms and conditions of its federal awards applicable to its federal programs.

Auditors' Responsibility

Our responsibility is to express an opinion on compliance for each of the City's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the City's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination of the City's compliance.

Opinion on Each Major Federal Program

In our opinion, the City of Avondale, Arizona complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2018.

Report on Internal Control Over Compliance

Management of the City is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the City's internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the City's internal control over compliance.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. *A material weakness in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. *A significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.



CliftonLarsonAllen LLP

Phoenix, Arizona
December 28, 2018

CITY OF AVONDALE, ARIZONA
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
YEAR ENDED JUNE 30, 2018

Federal Agency/Program Title/Cluster/Pass-Through Grantor	CFDA Number	Pass-Through Grantor Number	Expenditures	Amount Provided to Subrecipients
U.S. Department of Housing and Urban Development				
CDBG - Entitlement Grants Cluster				
Community Development Block Grants/Entitlement Grants	14.218	Direct Grant	\$ 502,865 *	\$ -
Total CDBG - Entitlement Grants Cluster - CFDA No. 14.218			502,865	-
Home Investment Partnerships Program, passed through the				
Arizona Department of Housing	14.239	306-17		
Total Home Investment Partnerships Program, passed through the		300-18	400,704	26,589
Arizona Department of Housing			400,704	26,589
Home Investment Partnerships Program, passed through the				
Maricopa County Human Services Department	14.239	C-22-14-043-3-02		
		C-22-15-031-3-01		
		C-22-16-027-3-00		
Total Home Investment Partnerships Program, passed through the		C-22-17-049-3-01	230,402	-
Maricopa County Human Services Department			230,402	-
Total Home Investment Partnerships Program - CFDA No. 14.239			631,106 *	26,589
Total U.S. Department of Housing and Urban Development			1,133,971	26,589
U.S. Department of Justice				
Crime Victim Assistance, passed through the Arizona Department				
of Public Safety	16.575	2015-353		
		2015-354		
		2018-254	251,055	-
Total Crime Victim Assistance Program - CFDA No. 16.575			251,055	-
Bulletproof Vest Partnership Program	16.607	Direct Grant	8,625	-
Improving the Investigation and Prosecution of Child Abuse and				
the Regional and Local Children's Advocacy Centers, passed				
through the National Children's Alliance	16.758	3-GOOD-AZ-2017	6,469	-
Total U.S. Department of Justice			266,149	-
U.S. Department of Transportation				
Highway Safety Cluster				
National Priority Safety Programs, passed through the Arizona				
Governor's Office of Highway Safety	20.616	2018-405D-005		
		2017-II-001		
		2018-CIOT-001	51,371	-
Total Highway Safety Cluster - CFDA Nos. 20.616			51,371	-
Total U.S. Department of Transportation			51,371	-
Institute of Museum and Library Services				
Grants to States, passed through the Arizona State Library, Archives and				
Public Records	45.310	2017-0010-A-00	5,000	-
Total Institute of Museum and Library Services			5,000	-

* Denotes major program

(Continued)

See accompanying notes to schedule.

CITY OF AVONDALE, ARIZONA
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
YEAR ENDED JUNE 30, 2018

Federal Agency/Program Title/Cluster/Pass-Through Grantor	CFDA Number	Pass-Through Grantor Number	Expenditures	Amount Provided to Subrecipients
<i>(Continuation)</i>				
U.S. Department of Health and Human Services				
Aging Cluster				
Special Programs for the Aging-Title III, Part B--Grants for Supportive Services and Senior Centers, passed through the Area Agency on Aging, Region One, Inc.	93.044	2018-07-AVO	\$ 90,615	\$ -
Special Programs for the Aging-Title III, Part C--Nutrition Services, passed through the Area Agency on Aging, Region One, Inc.	93.045	2018-07-AVO	134,110	-
Nutrition Services Incentive Program, passed through the Area Agency on Aging, Region One, Inc.	93.053	2018-07-AVO	14,229	-
Total Aging Cluster - CFDA Nos. 93.044, 93.045, and 93.053			238,954	-
TANF Cluster				
Temporary Assistance for Needy Families, passed through the Maricopa County Department of Human Services	93.558	C-22-17-001-3-01	26,017	-
Total TANF Cluster - CFDA No. 93.558			26,017	-
Low-Income Home Energy Assistance, passed through the Maricopa County Department of Human Services	93.568	C-22-17-001-3-01	26,017	-
Social Services Block Grant, passed through the Area Agency on Aging, Region One Inc.	93.667	2018-07-AVO	15,113	-
Total U.S. Department of Health and Human Services			306,101	-
U.S. Department of Homeland Security				
Emergency Food and Shelter National Board Program	97.024	Direct Grant	50,000	-
Homeland Security Grant Program, passed through the Arizona Department of Homeland Security	97.067	15-AZDOHS-HSGP-150829-01	18,027	-
Total U.S. Department of Homeland Security			68,027	-
Total Expenditures of Federal Awards			\$ 1,830,619	\$ 26,589

* Denotes major program

See accompanying notes to schedule.

CITY OF AVONDALE, ARIZONA
NOTES TO THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
YEAR ENDED JUNE 30, 2018

NOTE 1 - BASIS OF PRESENTATION

The accompanying Schedule of Expenditures of Federal Awards includes the City of Avondale, Arizona, federal grant activity for the year ended June 30, 2018. The information in this schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance).

NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Expenditures reported on the schedule are reported on the modified accrual basis of accounting. Such expenditures are recognized following the cost principles contained in the Uniform Guidance, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Therefore, some amounts presented in this schedule may differ from amounts presented in, or used in the preparation of, the financial statements.

NOTE 3 - CATALOG OF FEDERAL DOMESTIC ASSISTANCE (CFDA) NUMBER

The program titles and CFDA numbers were obtained from the federal or pass-through grantor or the 2018 *Catalog of Federal Domestic Assistance*. When no CFDA number had been assigned to a program, the two-digit federal agency identifier and the federal contract number were used. When there was no federal contract number, the two-digit federal agency identifier and the word "unknown" were used.

NOTE 4 - INDIRECT COST RATE

The City did not elect to use the 10 percent de minimis indirect cost rate as covered in 2 CFR §200.414.

City of Avondale, Arizona (An Arizona Municipality)

Schedule of Findings and Questioned Costs

Year Ended June 30, 2018

SECTION I – SUMMARY OF AUDITORS' RESULTS

Financial Statements

Type of auditor's report issued:

Unmodified

Internal control over financial reporting:

- Material weakness(es) identified? X yes no
- Significant deficiency(ies) identified? yes X none reported

Noncompliance material to financial statements noted?

 yes X no

Federal Awards

Internal control over major programs:

- Material weakness(es) identified? yes X no
- Significant deficiency(ies) identified? yes X none reported

Type of auditor's report issued on compliance for major programs:

Unmodified

Any audit findings disclosed that are required to be reported in accordance with 2 CFR 200.516(a)?

 yes X no

Identification of major programs:

CFDA Numbers

14.218

14.239

Name of Federal Program or Cluster

CDBG – Entitlement Grant Cluster

HOME Investments Partnership Program

Dollar threshold used to distinguish between Type A and Type B programs:

\$750,000

Auditee qualified as low-risk auditee?

 yes X no

SECTION II – FINDINGS RELATED TO FINANCIAL STATEMENTS REPORTED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS

2018-001: Bank Reconciliations

Type of Finding: Material Weakness

Repeat Finding: Yes

Condition: During the fiscal year 2018, bank reconciliations were not prepared, reviewed, and approved within a reasonable time period following month end for the operating account. Upon completion of the bank reconciliations, the City identified several reconciling items that were required to be recorded in the general ledger.

Criteria: Internal controls would dictate that adequate internal controls be designed and implemented to ensure the financial statements include all transactions and are reported in accordance with generally accepted accounting principles.

Context: At times during the year, the City was more than six months behind in reconciling the general account. The City completed all monthly reconciliations through June 30, 2018.

Effect: The lack of adequate internal controls over the bank reconciliations could result in a material misstatement going undetected and uncorrected.

Cause: Due to staff turnover and the limited staffing in the finance department, the City was unable to reconcile the bank accounts and identify and rectify all reconciling items timely.

Recommendation: We recommend the City evaluate its internal controls over bank reconciliations and develop and implement procedures that would allow timely preparation, review and approval of all bank accounts following each month end.

View of Responsible Official: The City concurs with this recommendation.

Responsible Official: Lindsey Duncan, Finance and Budget Director

SECTION II – FINDINGS RELATED TO FINANCIAL STATEMENTS REPORTED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS (CONTINUED)

2018-002: Prior Period Adjustment related to Long-Term Storage Water Credits Inventory

Type of Finding: Material Weakness

Repeat Finding: No

Condition: The City recorded a correction of an error to recognize long-term water storage credits that were previously not recorded on the City's general ledger.

Criteria: Internal controls would dictate that adequate internal controls be designed and implemented to identify and record all transactions in accordance with generally accepted accounting principles.

Context: During the years 2009 through 2017, the City earned long-term water storage credits from Central Arizona Project (CAP). The long-term water storage credits were previously not recognized as an asset; however, the storage credits provide a future benefit to the City.

Effect: Net position and inventory of the Business-type activities and the Water Enterprise Fund were previously understated.

Cause: The City's water department was aware that long-term water storage credits were generated as inventory; however, the finance department was unaware of those credits to enable the City to recognize the value of the credits as inventory.

Recommendation: We recommend the City evaluate departments that could impact the City's finances and develop internal controls over the recognition of material activity within the City's general ledger.

View of Responsible Official: The City concurs with this recommendation.

Responsible Official: Lindsey Duncan, Finance and Budget Director

SECTION II – FINDINGS RELATED TO FINANCIAL STATEMENTS REPORTED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS (CONTINUED)

2018-003: Material Audit Adjustments

Type of Finding: Material Weakness

Repeat Finding: Yes

Condition: During the course of the audit, we proposed and the City subsequently recorded material audit adjustments to correct various account balances.

Criteria: Internal controls would dictate that adequate internal controls be designed and implemented to record all transactions in accordance with generally accepted accounting principles.

Context: Material audit adjustments were proposed and subsequently recorded by management to correct the calculation of the deferred amount on the refunding of long-term bonds payable, properly record deferred inflows and outflows of resources related to pensions, properly record revenue and construction in progress for a refund, and to properly record contributions from the General Fund to the Internal Service Fund.

Effect: Material audit adjustments were proposed and subsequently recorded by management to record activity in accordance with generally accepted accounting principles.

Cause: Due to the limited staff size of the finance department, the City was unable to perform all year-end duties necessary to identify misstatements within various account balances.

Recommendation: We recommend the City evaluate its internal controls over the year-end close-out and drafting of the financial statements to determine significant account balances are properly reconciled and adjusted to the appropriate year-end balance.

View of Responsible Official: The City concurs with this recommendation.

Responsible Official: Lindsey Duncan, Finance and Budget Director

SECTION III – FINDINGS AND QUESTIONED COSTS RELATED TO FEDERAL AWARDS

None noted in the current year.



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Honorable Mayor, City Council and Management
City of Avondale, Arizona
Avondale, Arizona

We have audited the financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Avondale, Arizona (City) as of and for the year ended June 30, 2018, and have issued our report thereon dated December 28, 2018. We have previously communicated to you information about our responsibilities under auditing standards generally accepted in the United States of America, *Government Auditing Standards*, and Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), as well as certain information related to the planned scope and timing of our audit. Professional standards also require that we communicate to you the following information related to our audit.

Significant audit findings

Qualitative aspects of accounting practices

Accounting policies

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by the City are described in Note 1 to the financial statements.

As described in Note 1, the City changed accounting policies related to accounting for other postemployment benefits and interest capitalization by adopting Statement of Governmental Accounting Standards (GASB Statement) No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions* and GASB Statement No. 89, *Accounting for Interest Costs Incurred Before the End of a Construction Period* in 2018. The cumulative effect of the accounting change did not have an effect of the beginning balances.

The City reported the Other Postemployment Benefits (OPEB) liability, deferred inflows, outflows, and expense in the financial statements; however, all disclosures required by GASB Statement No. 75 were excluded due to the disclosures being immaterial to the City's financial statements.

As described in Note 15 to the financial statements, the City restated beginning net position in the Water Enterprise Fund and the Government-wide Business-Type Activities for a correction of an error. The restatement was recorded to recognize long-term storage credits as long-term inventory that were previously not recognized in the City's financial statements.

We noted no transactions entered into by the City during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. The most sensitive estimates affecting the financial statements were:

- Management's estimate of the fair value of investments is based on quoted market prices of similar or same investments. We evaluated the key factors and assumptions used to develop the fair value of investments in determining that it is reasonable in relation to the financial statements taken as a whole.
- Management's estimate of the allowance for doubtful accounts is based on historical water and sewer revenues, historical loss levels, and an analysis of the collectability of individual accounts. We evaluated the key factors and assumptions used to develop the allowance in determining that it is reasonable in relation to the financial statements taken as a whole.
- Management's estimate of the value of the long-term storage credits reported as long-term inventory is based on estimated direct costs of generating the long-term storage credits, as well as formulas to estimate the percent of water credited to the City. We reviewed the key factors and assumptions used to develop the value of the long-term storage credits in determining that it is reasonable in relation to the financial statements taken as a whole.
- Management's estimate of the useful lives and remaining useful lives of capital assets is based on the City's previous experience with similar assets and current condition of the asset. We evaluated the key factors and assumptions used to develop the useful lives and remaining useful lives of capital assets in determining that they are reasonable in relation to the financial statements taken as a whole.
- Management's estimate of the current and long-term portion of compensated absences is based on employees that are currently eligible to receive or are expected to receive vacation and sick leave benefits upon retirement. We reviewed key assumptions used to estimate the liability in determining that it is reasonable in relation to the financial statements taken as a whole.
- Management's estimate of the risk management claims incurred, but not reported is based on the report of a third party actuary and an analysis of claims paid subsequent to year-end. We evaluated the key assumptions used to estimate the claims liability in determining that it is reasonable in relation to the financial statements taken as a whole.
- Management's estimate of the unfunded pension and OPEB liability related to the Arizona State Retirement System, Public Safety Personnel Retirement System Plan, Corrections Officers Retirement Plan, and the Elected Officials Retirement Plan benefits are based on actuarial reports prepared by other professionals. We reviewed the key assumptions used to estimate the liability in determining that they are reasonable in relation to the financial statements taken as a whole.

Financial statement disclosures

Certain financial statement disclosures are particularly sensitive because of their significance to financial statement users. There were no particularly sensitive financial statement disclosures, except for the restatement of net position for a correction of an error disclosed in Note 15 in the notes to the financial statements.

The financial statement disclosures are neutral, consistent, and clear.

Difficulties encountered in performing the audit

We encountered no significant difficulties in dealing with management in performing our audit.

Uncorrected misstatements

Professional standards require us to accumulate all misstatements identified during the audit, other than those that are clearly trivial, and communicate them to the appropriate level of management. The attached schedule summarizes uncorrected misstatements of the financial statements. Management has determined that their effects are immaterial, both individually and in the aggregate, to the financial statements taken as a whole.

Corrected misstatements

The following material misstatements detected as a result of audit procedures were corrected by management:

- Audit adjustments were proposed by management and subsequently recorded to restate beginning net position in the Water Enterprise Fund and the Business-type Activities in the Government-wide financial statements for a correction of an error related to unrecorded long-term storage credits.
- Audit adjustments were proposed and subsequently recorded to properly record deferred inflows and deferred outflows in the government-wide and fund financial statements.
- Audit adjustments were proposed and subsequently recorded to correct the recording of the refunding bond issuance and related deferred amounts on the refunding.
- Audit adjustments were proposed and subsequently recorded to properly record revenue and construction in progress (CIP) for a refund related to a CIP project.
- Audit adjustments were proposed and subsequently recorded in the General Fund and the Internal Service Fund to reclassify a transfer from the General Fund to the Internal Service Fund as an expenditure in the General Fund and a contribution in the Internal Service Fund.

Disagreements with management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditors' report. No such disagreements arose during our audit.

Management representations

We have requested certain representations from management that are included in the management representation letter dated December 28, 2018.

Management consultations with other independent accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a “second opinion” on certain situations. If a consultation involves application of an accounting principle to the City’s financial statements or a determination of the type of auditors’ opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Significant issues discussed with management prior to engagement

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to engagement as the City’s auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our engagement.

Significant findings or issues that were discussed, or the subject of correspondence, with management

Significant findings or issues arising from the audit are disclosed in the schedule of findings and questioned costs included in the comprehensive annual financial report.

Other audit findings or issues

We have provided a separate letter to you dated December 28, 2018, communicating internal control related matters identified during the audit.

Other information in documents containing audited financial statements

With respect to the required supplementary information (RSI) accompanying the financial statements, we made certain inquiries of management about the methods of preparing the RSI, including whether the RSI has been measured and presented in accordance with prescribed guidelines, whether the methods of measurement and preparation have been changed from the prior period and the reasons for any such changes, and whether there were any significant assumptions or interpretations underlying the measurement or presentation of the RSI. We compared the RSI for consistency with management’s responses to the foregoing inquiries, the basic financial statements, and other knowledge obtained during the audit of the basic financial statements. Because these limited procedures do not provide sufficient evidence, we did not express an opinion or provide any assurance on the RSI.

With respect to the schedule of expenditures of federal awards (SEFA) accompanying the financial statements, on which we were engaged to report in relation to the financial statements as a whole, we made certain inquiries of management and evaluated the form, content, and methods of preparing the SEFA to determine that the SEFA complies with the requirements of the Uniform Guidance, the method of preparing it has not changed from the prior period or the reasons for such changes, and the SEFA is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the SEFA to the underlying accounting records used to prepare the financial statements or to the financial statements themselves. We have issued our report thereon dated December 28, 2018.

With respect to the combining fund financial statements and budgetary comparison schedules and other supplementary information (collectively, the supplementary information) accompanying the financial statements, on which we were engaged to report in relation to the financial statements as a whole, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America, the method of preparing it has not changed from the prior period or the reasons for such changes, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves. We have issued our report thereon dated December 28, 2018.

The introductory and statistical sections accompanying the financial statements, which is the responsibility of management, was prepared for purposes of additional analysis and is not a required part of the financial statements. Such information was not subjected to the auditing procedures applied in the audit of the financial statements, and, accordingly, we did not express an opinion or provide any assurance on it.

Our auditors' opinion, the audited financial statements, and the notes to financial statements should only be used in their entirety. Inclusion of the audited financial statements in a document you prepare, such as an annual report, should be done only with our prior approval and review of the document.

* * *

This communication is intended solely for the information and use of the Mayor, City Council and management of the City of Avondale, Arizona and is not intended to be, and should not be, used by anyone other than these specified parties.

A handwritten signature in black ink that reads "CliftonLarsonAllen LLP". The signature is written in a cursive, flowing style.

CliftonLarsonAllen LLP

Phoenix, Arizona
December 28, 2018

Passed, Unrecorded Adjustments

Account Description	Debit	Credit
Governmental Activities		
1 Revenues	74,626	
Beginning Net Position		74,626
To reverse a prior year passed adjustment for revenues that were recognized in the current year that were for fiscal year 2016-17.		
General Fund		
1 Cash	74,626	
Revenues		74,626
To reverse a prior year passed adjustment for revenues that were recognized in the current year that were for fiscal year 2016-17.		



CliftonLarsonAllen LLP
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Senior Management
City of Avondale, Arizona
Avondale, Arizona

In planning and performing our audit of the financial statements of the City of Avondale, Arizona (City) as of and for the year ended June 30, 2018, in accordance with auditing standards generally accepted in the United States of America, we considered the City's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the City's internal control. Accordingly, we do not express an opinion on the effectiveness of the City's internal control.

However, during our audit we became aware of deficiencies in internal control other than significant deficiencies and material weaknesses and other matters that are opportunities to strengthen your internal controls and improve the efficiency of your operations. Our comments and suggestions regarding those matters are summarized below. A separate communication dated December 28, 2018, contains our written communication of material weaknesses in the City's internal control. This letter does not affect our communication dated December 28, 2018.

Inventory

The City performs an inventory annually at the end of the fiscal year and for the current fiscal year, management provided inventory guidelines and training to each department conducting an inventory. However, during our inquiries and observations, we noted that not all departments accounted for all inventory that may be on-hand. Certain inventories on-hand may be obsolete or the tracking of certain inventory items may not be cost beneficial.

We recommend the City develop strict policies and procedures for the accounting of inventory, including clear guidelines on the reporting of obsolete or damaged inventory, items that are not required to be inventoried and other applicable policies and procedures to safeguard assets. Based on the magnitude of the inventory, we recommend the City consider utilizing a perpetual inventory system that is reconciled to an annual count. In addition, all inventory should be reported and obsolete or damaged inventory should be identified and reported.

Procurement Cards

For one of twenty-two procurements card transactions tested, documentation was retained to support the purchase of the goods and/or service; however, a detailed receipt of the good and/or services was not retained to identify goods and/or services purchased. As a result, a potential exists for goods and/or services to be purchased that are not for City business.

We recommend the City evaluate its internal controls over the use of procurement cards and require detailed receipts of goods and/or services purchased to support the purchase as being for legitimate City business.

Capital Asset Capitalization Policy

The City does not have a formal capitalization policy identifying the threshold for capitalizing capital assets. In practice, the City capitalizes all assets more than \$5,000 and a useful life greater than one year; however, a formal policy has not been adopted.

We recommend the City update its policies to formalize the City's capitalization policy to mitigate the opportunity for capital assets to be over or understated due to incorrect capitalization of purchases or the lack of capitalizing assets that meet the capitalization threshold.

Information Technology User Rights

During our review of user access rights for various information technology functions, we noted that several members of the finance department had full (administrative) access or access to financial modules that could result in unauthorized changes or adjustments going undetected and uncorrected. During our fieldwork visit, as a result of a phishing scheme, an employee was able to make changes to payroll routing information.

We recommend the City complete an information technology assessment and restrict access to modules of certain individuals to adequately segregate duties that might be deemed as excess user rights.

Development Impact Fees

The accounting for development impact fees are commingled with local funds. Although the City tracks the use of development impact fees, the lack of a separate fund to account for the development impact fees could result in the City being unable to support the use of development impact fees in the event of a development impact fee audit.

We recommend the City review the accounting for development impact fees to ensure an adequate audit trail exists to prove the use of development impact fees for authorized projects. For internal reporting purposes, the City is required by statute to account for development impact fees in a separate fund to distinguish the use of restricted development impact fees versus local funding sources.

This communication is intended solely for the information and use of management, governance, and others within the City, and is not intended to be, and should not be, used by anyone other than these specified parties.

A handwritten signature in black ink that reads "CliftonLarsonAllen LLP". The signature is written in a cursive, flowing style.

CliftonLarsonAllen LLP

Phoenix, Arizona
December 28, 2018



CliftonLarsonAllen LLP
CLAconnect.com

INDEPENDENT ACCOUNTANTS' REPORT

The Honorable Mayor and the City Council
City of Avondale, Arizona

We have examined the City of Avondale, Arizona's (City) compliance as to whether highway user revenue fund monies received by the City pursuant to Arizona Revised Statutes Title 28, Chapter 18, Article 2 and any other dedicated state transportation revenues received by the City are being used solely for the authorized transportation purposes during the fiscal year ended June 30, 2018. Management of the City of Avondale, Arizona is responsible for the City's compliance with the specified requirements. Our responsibility is to express an opinion on the City's compliance with the specified requirements based on our examination.

Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the examination to obtain reasonable assurance about whether the City complied, in all material respects, with the specified requirements referenced above. An examination involves performing procedures to obtain evidence about whether the City complied with the specified requirements. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risks of material noncompliance, whether due to fraud or error. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

Our examination does not provide a legal determination on the City's compliance with specified requirements.

In our opinion, the City of Avondale, Arizona complied, in all material respects, with the aforementioned requirements for the fiscal year ended June 30, 2018.

This report is intended solely for the information and use of the Mayor, City Council, management, and the Arizona Auditor General and is not intended to be and should not be used by anyone other than these specified parties.

CliftonLarsonAllen LLP

CliftonLarsonAllen LLP

Phoenix, Arizona
December 28, 2018