



CITY OF BUCKEYE

**INVITATION FOR BID
IFB: 2014-091**

**YUMA ROAD IMPROVEMENTS FROM S. APACHE TO 247TH AVENUE
AS PART OF TOM JONES FORD DEALERSHIP DEVELOPMENT**

**CONTACT PERSON
Chris Williams
Manager, Contracting and Construction
623.349.6225
cwilliams@buckeyeaz.gov**

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SECTION 100

NOTICE TO CONTRACTORS OF INTENT TO RECEIVE BIDS

Sealed bids will be delivered and received **no later than 1:00 PM, MST, January 29, 2015, at the 2nd Floor Permitting Desk, Buckeye City Hall, 530 East Monroe Avenue, Buckeye, Arizona 85326.**

Scope of Work:

The nature of the work to be performed under this project shall consist of furnishing all labor, materials and equipment required to construct the site and features called for by plans and specifications. The type, purpose and location of the proposed Project are generally described below and in more detail in the plans and special provisions. Special Provisions are made part of this IFB as Exhibit A.

The work shall consist of furnishing all labor, materials, equipment and services required for the **YUMA ROAD IMPROVEMENTS FROM S. APACHE TO 247TH AVENUE AS PART OF TOM JONES FORD DEALERSHIP DEVELOPMENT**

Location of the Project: City of Buckeye.

This project is funded by private development funds associated with public improvements.

Bids will be opened publicly in the City Hall, (same address as above), and read aloud by the City Clerk.

All contractors engaged in City of Buckeye construction shall be licensed in the State of Arizona with the Registrar of Contractors with the applicable licenses for the work to be performed.

A Pre-bid/site visit meeting is scheduled for 9:00am, MST, January 20, 2015, at the Buckeye City Hall, 1st Floor Conference Room, located at 530 E. Monroe Avenue, Buckeye, Arizona 85326. Attendance at the pre-bid meeting is recommended.

A certified or cashier's check or a surety bond for **ten percent (10%)** of the amount of the Bid must accompany each Bid Proposal, as a guarantee that the Contractor will enter into a contract to perform the Work in accordance with the Construction Documents, or as liquidated damages in the event of failure or refusal of the Contractor to enter into the Contract. The check or bond will be returned to the unsuccessful bidders, and to the successful bidder upon the execution of a satisfactory bond and the Contract, as prescribed by Arizona Revised Statutes and the City of Buckeye Procurement Code.

Mistakes discovered before bid opening may be modified or withdrawn by written notice received by the City prior to the time set for bid opening. After bid opening corrections in bids

shall be permitted only to the extent that the bidder can show by clear and convincing evidence that a mistake of a nonjudgmental character was made, the nature of the mistake, and the bid price actually intended. After bid opening, no changes in bid prices or other provisions of bids prejudicial to the interest of the City or fair competition shall be permitted.

In lieu of bid correction, a low bidder alleging a material mistake of fact may be permitted to withdraw its bid if:

(a) The mistake is clearly evident on the face of the bid document but the intended correct bid is not similarly evident; or

(b) The bidder submits evidence that clearly and convincingly demonstrates that a mistake was made. All decisions to permit the correction or withdrawal of bids, or to cancel awards or contracts based on bid mistakes, shall be supported by a written determination by the City Manager.

All correspondence relating to this Project should be addressed to:

Tammy Vogel, Contract Administrator
City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326
P: 623.349.6175
Email: Tvogel@buckeyeaz.gov

END OF SECTION

SECTION 200

INSTRUCTIONS TO BIDDERS

To be considered, the Bids must be made in accordance with these Instructions to the Bidders.

Documents: Bidders may obtain a complete set of the Construction Documents from:

Chris Williams, Manager, Contracting and Construction
City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona, 85326
Phone: 623.349.6225
cwilliams@buckeyeaz.gov
www.buckeyeaz.gov

Examination: Before submitting a Bid, the bidders shall carefully examine the Construction Documents, visit the site of the Work, and fully inform themselves as to all existing conditions and limitations, and shall include in the Bid a sum to cover the cost of all items included in the Work. The Bidder, if awarded the Contract, shall not be allowed any extra compensation by reason of any matter or thing, concerning which such bidder might have fully informed himself prior to the Bidding.

Interpretations, Addenda: Should a bidder find any ambiguity, inconsistency or error in the Construction Documents, or should the bidder be in doubt as to their meaning, the bidder shall at once notify the City, in writing, who will send a written addendum to all bidders of record. Neither City nor its representatives will be responsible for oral instructions or information.

Any addenda issued by the City during the time of bidding are to be included in the Bid, and will become a part of the Contract when awarded. The Bidders shall acknowledge receipt of addenda on the Bid form in the space provided. Addenda will be mailed or delivered to each person or firm recorded by the City as having received the bidding documents, and will be available for inspection wherever the bidding documents are kept available for that purpose.

If a bidder should fail to receive any addendum, or should fail to acknowledge receipt of same, the Bidder shall have the option of accepting a contract, if offered, including all addenda, at the Bid price, or withdrawing the Bid without penalty. The City is not responsible for assuring delivery of addenda to any bidder. Failure to receive addenda or failure to acknowledge receipt shall not constitute a basis for claim, protest, or reissue of the invitation to bid.

Bids: To be entitled to consideration, Bids must be submitted on the Bid Form provided, with all blank spaces filled, the signature in longhand, and alterations or erasures initialed by the Bidder.

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Yuma Road Improvements (Tom Jones site)

Where the Bidder is a corporation, the Bid must be signed by the legal name of the corporation followed by the name of the state of incorporation and the legal signature of an officer authorized to bind the corporation to a contract.

All Contractors and Subcontractors engaged in construction shall be licensed by the Registrar of Contractors in the State of Arizona for each trade and work performed.

Bids shall be addressed to City of Buckeye, and delivered in an enclosed sealed envelope, marked:

Bid Number: _____

Bid for: _____

Bidder's Name _____

Bidder's Address _____

City shall receive bids no later than **1:00 PM, MST, on January 29, 2015, in the City Hall at the following address:**

**City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326**

The Bids will then be opened and publicly read aloud.

Late Bids will not be considered. It is the responsibility of the Bidder to insure that the Bid is received on time. All Bids shall remain firm for a period of **Sixty (60) days** after the date of the Bid opening and the Contractor shall be prepared to begin construction upon the date established by the Advice of Award and Notice to Proceed.

Mistakes discovered before bid opening may be modified or withdrawn by written notice received by the City prior to the time set for bid opening. After bid opening corrections in bids shall be permitted only to the extent that the bidder can show by clear and convincing evidence that a mistake of a nonjudgmental character was made, the nature of the mistake, and the bid price actually intended. After bid opening, no changes in bid prices or other provisions of bids prejudicial to the interest of the City or fair competition shall be permitted. In lieu of bid correction, a low bidder alleging a material mistake of fact may be permitted to withdraw its bid if:

- (a) The mistake is clearly evident on the face of the bid document but the intended correct bid is not similarly evident; or
- (b) The bidder submits evidence that clearly and convincingly demonstrates that a mistake was made. All decisions to permit the correction or withdrawal of bids, or to cancel awards or contracts based on bid mistakes, shall be supported by a written determination by the City Manager.

The City reserves the right to reject any or all Bids, and to award the Contract to the lowest responsive and responsible Bidder, whose bid conforms in all material respects to requirements and criteria set forth in the invitation for bids. City further reserves the right to waive any informality or irregularity in the bidding process. In addition, the Bidder recognizes the right of the City to reject a Bid if the Bidder fails to furnish any required Bid security, or to submit the data required by the bidding documents, or if the Bid is in any way incomplete or irregular. The Bidder is required to submit **ONE (1) ORIGINAL and 2 copies** of the completed Bid form.

Bid Security: The Bidder is required to submit with his Bid a certified or cashiers' check, upon a solvent bank, or a surety bond in an amount equal to ten percent (10%) of the Base Bid made payable to the City of Buckeye. The bid security shall be given as a guarantee that the Bidder will enter into the Contract if awarded to him; and shall be declared forfeited as liquidated damages if he refuses to enter into said contract upon request to do so by the City. The Bid security other than bid bonds will be returned to the unsuccessful bidders and to the successful bidder upon his execution of a satisfactory payment and performance bond, and contract. Failure by the Bidder to submit bid security will result in rejection of the Bid as non-responsive.

If a surety bond is used as bid security it shall be executed on the forms provided in the bid package. The surety bond provided as bid security shall be executed solely by a surety company or companies holding a certificate of authority to transact surety business in this state issued by the Director of the Department of Insurance pursuant to Title 20, Chapter 2, Article 1. The surety bond shall not be executed by an individual surety or sureties.

Responsibility of Subcontractors: Since the General Conditions and Amendments to the General Supplementary Conditions of the Contract for construction apply in every pertinent respect to each subcontractor, the Bidder shall carefully instruct each subcontractor to become familiar with them, just as though these sections had been formally included by reference in each division of work. The Bidder shall also caution each subcontractor to become familiar with the contents of referenced specifications and standards, insofar as they affect each subcontractor. Each citation of a standard specification shall be construed to refer to the latest published revision, as of the date of the Invitation to Bid. Consideration will not be given to any claimed ignorance as to contents of any cited specification, since each subcontractor is deemed to be experienced and familiar with his own trade's generally accepted and published standards of quality.

No allowance shall be made on behalf of a subcontractor for errors due to his negligence in not being familiar with the existing site conditions.

Each subcontractor shall make the field measurements necessary for his own work, and shall be responsible for the accuracy of those measurements and his work. Also, should any structural difficulties prevent a subcontractor or tradesman from installing his materials or equipment

properly, the Contractor shall be promptly notified so that the DP may be consulted on how best to resolve the difficulty.

Should the specifications or detailed contract drawings fail to cover any particular phase of the Work, the installation or maintenance directions provided by the manufacturer shall be followed. Each subcontractor shall acquaint himself with the Work of other trades whose activities are mutually affected so that their efforts are coordinated to avoid mistakes, omissions, disputes or delays.

Each subcontractor shall remove tools, equipment, materials and debris from the site promptly upon completion of the Work, and shall leave the work area clean and free of all rubbish and debris.

Each subcontractor shall unequivocally guarantee his entire work to be free from defects of material and workmanship for the **one-year warranty period** after acceptance by City.

Copies Furnished: The successful Bidder will be furnished five (5) set(s) of Construction Documents free of charge. Additional copies may be obtained by paying the cost of reproduction of same.

Insurance Requirements: The insurance requirements shall be set forth between the City of Buckeye and the Developer for the awarded Contractor and subsequent Subcontractors hired by the Contractor.

Summary of Work: See Special Provisions and drawings, for description of the Work.

Sales and Use Tax: The Contractor agrees to comply with, and to require all of his subcontractors to comply with, all the provisions of applicable State Sales Excise Tax Law and Compensation Use Tax Law and all amendments to same. To the furthest extent permitted by law, the Contractor further agrees to indemnify and save harmless the City, for, from and against any and all claims and demands made against it by virtue of the failure of the Contractor or any subcontractor to comply with the provisions of any and all said laws and amendments.

Waiver of Liens: The Contractor is responsible for the payment of all bills for labor and materials furnished by, or to, the subcontractors and himself on this project; and the Contractor shall deliver to himself on this project, and the Contractor shall also deliver to the City before final payment, a Waiver of Liens in duplicate from himself and each of his subcontractors, if any; and at such time he shall certify that he is submitting such lien waivers for all subcontractors involved.

Qualifications of Contractors: The competency and responsibility of bidders, and of their proposed subcontractors, shall be considered in making the award, pursuant to the City of Buckeye Procurement Code.

AWARD: The City of Buckeye, Contracting and Construction Division will formally advertise the construction of the project on behalf of the Developer. Bids shall be received and due-diligence is completed by City of Buckeye, Contracting and Construction Division to determine the lowest price, responsive and responsible construction Bidder. The Bid package shall be delivered to the Developer. The package identifies the lowest, responsive, responsible bidder and thus establishes the price for Construction improvements.

DEVELOPER AWARD: The City of Buckeye will be involved in the selection and verification of the construction phase of an awarded contract. The execution of the contract will be directly between the Developer and the awarded Construction firm. If at any time during construction there is a change in the Scope of Work; an amendment to the original contract is required, the Developer is notified and the City of Buckeye will have final approval on a change order utilizing the established guidelines within the Development Agreement.

Construction Inspection Period: The City of Buckeye, Engineering Division shall inspect the progress of work to ensure the project is built per the specifications and drawings.

Responsibilities of the Awarded Construction Contractor: The Contractor shall provide the Developer with detailed pay applications, reports, correspondence, submittals, close-out documents, insurance and warranties during the construction phase.

CONSTRUCTION BUDGET: The project has a budget of more than \$100,000

END OF SECTION

**SECTION 300
BID FORMS/BASE BID**

City Project Name: **YUMA ROAD IMPROVEMENTS FROM S. APACHE TO 247TH AVENUE
AS PART OF TOM JONES FORD DEALERSHIP DEVELOPMENT**

Date: _____

Bid from: _____
(Name of Firm)

To: City of Buckeye

The following bid is made for construction services for the City of Buckeye, Arizona, in accordance with Construction Documents. The undersigned certifies that the Construction Documents, as well as the proposed construction site and conditions affecting the Work have been carefully examined; that the amount and nature of the Work to be done is thoroughly understood; and that at no time will misunderstanding of the drawings, specifications, or conditions to be overcome be pleaded.

The undersigned certifies that he or his firm is currently licensed under the provisions of ARS Sections 32-1151 and 32-1169. The undersigned further certifies that he or his firm has a privilege license pursuant to ARS Section 42-5005.

The undersigned has read "Instructions to Bidders", paragraph "Sales and Use Tax" and understands that all sales and use taxes applicable to this project are included in all bid prices. The undersigned has read the Construction Contract between the City of Buckeye and Contractor, and will execute said agreement if awarded the Contract. Any exceptions to the terms and conditions have been stated in writing and submitted on a separate sheet with this bid. The undersigned understands that any exceptions taken to the Construction Contract that are not accepted and/or approved by the City may be a basis for rejection of the Bid as nonresponsive.

RECEIPT BY THE UNDERSIGNED OF THE FOLLOWING ADDENDA IS HEREBY ACKNOWLEDGED:

ADDENDUM NUMBER: _____	DATED: _____
ADDENDUM NUMBER: _____	DATED: _____
ADDENDUM NUMBER: _____	DATED: _____

BASE BID:

Company Name:					
No.	Bid Item Description	Quantity	Unit	Unit Price	Total Price
MISCELLANEOUS CONSTRUCTION ACTIVITIES					
1	Mobilization/Demobilization	1	L.S.		
2	Traffic Control	1	L.S.		
3	Construction Surveying	1	L.S.		
4	Inspections and Testing	1	L.S.		
Sub-Total Price					
REMOVALS/RELOCATIONS					
5	Saw cut and Remove Existing Pavement	8384	S.Y.		
6	Saw cut and Remove Existing Curb and Gutter	11	LF		
7	Saw cut Existing Pavement/Concrete and Replace with T-Top per MAG 200.	204	S.Y.		
8	Salvage and relocate existing Cacti	2	EA.		
Sub-Total Price					
EARTHWORK/PAVING					
9	Site Prep, Clearing, Grubbing	10	AC		
10	Total Cut, Place, and Compact Material	5394	CY		
11	Cut and Off-site Disposal of Spoils	11599	CY		

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No	Bid Item Description	Quantity	Unit	Unit Price	Total Price
12	Final Grading of Roadway	18578	S.Y.		
13	Heavy Duty AC Pavement - 6" AC on 12" ABC	16700	S.Y.		
14	Heavy Duty Concrete Pavement and Driveway Entrances- 9" PCCP on 4" ABC on Compacted Subgrade	1878	S.Y.		
15	Thickened Edge	2003	LF		
16	6" Vertical Curb and Gutter	2268	L.F.		
17	6" Single Curb	681	L.F.		
18	Concrete Sidewalk	10012	S.F.		
19	Sidewalk Ramp per MAG 235-2	8	EA.		
20	Sidewalk Ramp per MAG 235-1	2	EA.		
21	Adjust Valve Box/Sewer Cleanouts to Grade	32	EA.		
22	Adjust Manhole to Grade	12	EA.		
23	Barricades	240	L.F.		
24	Survey Markers	2	EA.		
25	Signing and Marking	1	LS		
Sub-Total Price					

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Yuma Road Improvements (Tom Jones site)

EROSION AND SEDIMENT CONTROL					
No.	Bid Item Description	Quantity	Unit	Unit Price	Total Price
26	Erosion Control System	1	LS		
Sub-Total Price					
DRAINAGE					
27	24" Class V Concrete Storm Drain Pipe and Fittings	23	L.F.		
28	18" Class V Concrete Storm Drain Pipe and Fittings	324	L.F.		
29	Single Headwall Per MAG Det 501-3 Modified, Type U, with Handrails per City of Buckeye Det B-110 and Access Barrier per City of Buckeye Det B-508	3	EA.		
30	Double Headwall Per MAG Det 501-3 Modified, Type U, with Handrails per City of Buckeye Det B-110 and Access Barrier per City of Buckeye Det B-508	2	EA.		
31	Catch Basin per City of Buckeye Det B-5810A and B510B: 6' Wing	1	EA.		
32	Catch Basin per City of Buckeye Det B-5810A and B510B: 10' Wing	1	EA.		
33	Catch Basin per City of Buckeye Det B-5810A and B510B:17' Wing	1	EA.		
34	Catch Basin per City of Buckeye Det B-5810A and B510B: 17' and 3' Wing	1	EA.		
35	Rip-Rap (D50=6" Depth=12"):	1746	S.F.		
36	Rip-Rap (D50=6" Depth=20"):	127	S.F.		
37	Gravel Disposal Trench Drain	4	EA.		
Sub-Total Price					

UTILITIES					
Sewer					
No.	Bid item Description	Quantity	Unit	Unit Price	Total Price
38	10" VCP Extra Strength	1916	L.F.		
39	8" VCP Extra Strength	542	L.F.		
40	Temporary Sewer Cleanout	5	EA.		
41	60" Sanitary Sewer Manhole per MAG Det 420	6	EA.		
42	48" Sanitary Sewer Manhole per MAG Det 420	6	EA.		
43	Concrete encasement per MAG std det 404	3	EA.		
44	Connect to existing 10" Sewer Main	1	EA.		
Water					
45	16" DIP Waterline, Pressure Class 350 w/ Fittings and Polywrap	2956	L.F.		
46	12" DIP Waterline, Pressure Class 350 w/ Fittings and Ploywrap	116	L.F.		
47	8" DIP Waterline, Pressure Class 350 w/ Fittings and Polywrap:	112	L.F.		
48	6" DIP Waterline, Pressure Class 350 w/ Fittings and Polywrap	10	L.F.		
49	2" Copper Type K Water Service w/ Fittings	7	L.F.		
50	Fire Hydrant Per MAG Det 360 and 362	6	EA.		
51	16" Gate Valve, Valve Box and Cover Per MAG 391-1 Type C	10	EA.		
52	12" Gate Valve, Valve Box and Cover Per MAG 391-1 Type C:	5	EA.		
53	8" Gate Valve, Valve Box and Cover Per MAG 391-1 Type C	11	EA.		
54	6" Gate Valve, Valve Box and Cover Per MAG 391-1 Type C	1	EA.		

55	2" Water Meter Box and Service	6	EA.		
56	1.5" Water Meter Box and Service	1	EA.		
57	Stub and Plug 16" Water Main	3	EA.		
58	Stub and Plug 8" Water Main	9	EA.		
59	Connect to existing 16" Water Main	1	EA.		
Streetlights					
60	New Street Light	9	EA.		
61	Street Light Pull Box	9	EA.		
62	Street Lighting Conduit (1-2.5")	2785	L.F.		
				Sub-Total Price	

Sub Total Price:

General Conditions

Contractor's Fee

General Liability

Bonds

Sales Tax

TOTAL BASE BID:

=====

ALTERNATE #1	Bid Description	Quantity	Unit	Unit Price	Total Price
63	ADOT pull box #7	4	EA.		
64	ITS conduit (1-2" and 1-3"):	2882	L.F.		
Sub-Total Price					

ALTERNATE #2	Bid item Description	Quantity	Unit	Unit Price	Total Price
65	APS Feeder Conduit (2-5"):	2763	L.F.		
66	APS primary Conduit (1-2"):	17	L.F.		
67	APS Switching cabinet preparation	1	EA.		
68	APS transformer preparation	1	EA.		
69	APS pull box installation	1	EA.		
Sub-Total Price					

Sub Total Price Alternate #1:

General Conditions _____

Contractor's Fee _____

General Liability _____

Bonds _____

Sales Tax _____

TOTAL ALTERNATE #1:

Sub Total Price Alternate #2:

General Conditions _____

Contractor's Fee _____

General Liability _____

Bonds _____

Sales Tax _____

TOTAL ALTERNATE #2 BID:

ALTERNATE #3	Bid Description	Quantity	Unit	Unit Price	Total Price
70	Accelerated completions by April 15, 2015	1	L.S.		
Sub-Total Price					

Sub Total Price Alternate #3:

General Conditions

Contractor's Fee

General Liability

Bonds

Sales Tax

TOTAL ALTERNATE #3 BID:

The undersigned proposes to complete all of the Work in accordance with said Construction Documents, plans, specification and all associated addenda for the sum of _____ Dollars(\$_____).
(Amount shall be shown in both words and figures. In case of discrepancy, the amount shown in Words shall govern.)

Submitted by: _____

SIGNATURE: _____

NAME: _____

TITLE: _____

Principal Office: _____

Address: _____

Telephone: _____

Facsimile: _____

M _____ being duly sworn deposes and says that he/she is the _____ of _____ Contractor(s), and that answers to the foregoing questions and all statements therein contained are true and correct.

Subscribed and sworn before me this _____ day of _____, 20__

Notary Public: _____

My Commission Expires: _____ day or _____, 20__

**SECTION 400
SPECIAL PROVISIONS**

EXHIBIT A

SCOPE OF WORK

GENERAL SPECIFICATION

SPECIAL PROVISIONS FOR SCOPE OF WORK

SCOPE OF WORK

Base

1. Contractor will be required to provide all labor, material, water, supervision, equipment, surveying, staking, testing/inspections (including of earthwork and material testing), as-builts, and incidentals to complete the work as defined in the Improvement Plans and information outlined in the Invitation To Bid, and in accordance with the contract documents and applicable specifications. The work includes, but is not limited to: excavation; water and sewer main installation; storm drain installation; grading; curbs and gutters; sidewalks and sidewalk ramps; flatwork; asphalt and concrete paving; pavement striping and markings; signage; street lighting; and private utility infrastructure along Yuma Road between Apache Road and 247th Avenue.
2. Contractor will also be required to prepare as-built drawings for the project in compliance with criteria specified by the City of Buckeye and to provide regulatory certificates as may be necessary for the regulatory agency acceptance of the project.

Alternate #1

1. Contractor will be required to provide all labor, material, water, supervision, equipment, surveying, staking, testing/inspections (including of earthwork and material testing), as-builts, and incidentals to complete the work as defined in the Improvement Plans and information outlined in the Invitation To Bid as Alternate #1, and in accordance with the contract documents and applicable specifications. The work includes, but is not limited to: excavation; private utility infrastructure ITS conduit, pull box installation, and backfill along Yuma Road between Apache Road and 247th Avenue

Alternate #2

1. Contractor will be required to provide all labor, material, water, supervision, equipment, surveying, staking, testing/inspections (including of earthwork and material testing), as-builts, and incidentals to complete the work as defined in the Improvement Plans and information outlined in the Invitation To Bid as Alternate #2, and in accordance with the contract documents and applicable specifications. The work includes, but is not limited to: excavation; private utility infrastructure APS conduit, switching cabinet preparation, transformer preparation, pull box installation, and backfill along Yuma Road between Apache Road and 247th Avenue for APS conversion of 12KV overhead power lines.

The final design plans for APS electrical service may not be completed until after the execution of the construction contract. Therefore, work associated with the installation of electrical service shall include trenching, bedding, conduit, backfill, and pads for streetlights and the 12KV as shown on Civil Plans.

Alternate #3

1. Contractor will be required to provide all labor, material, water, supervision, equipment, surveying, staking, testing/inspections (including of earthwork and material testing), as-builts, and incidentals to complete the work identified in the base and alternates at an accelerated schedule. The Completion date for the all improvements (base and alternates) is April 15, 2015.

GENERAL SPECIFICATION

For Improvements within the City of Buckeye Right of Way

This project generally conforms to the Uniform Standard Specifications and the Uniform Standard Details for Public Works Construction which are sponsored and furnished by the Maricopa Association of Governments (MAG); except where indicated on the Town approved plans.

For Improvements within the Arizona Department of Transportation (ADOT) Right of Way

This project generally conforms to the ADOT 2008 standard specifications for road and Bridge Construction, May 2012 Construction Standard Drawings, Signing and Marking Standard drawings and Traffic Signals and lighting standard drawings along with all current revisions, except were indicated on the approved plans within the ADOT right of Way. See the attached ADOT permit and general conditions as part of the special provisions.

For Arizona Public Service Utility work.

This project generally conforms to current Arizona Public Service standards and specifications for the APS electrical infrastructure of street lighting and feeder lines.

SPECIAL PROVISIONS
BID ITEM DESCRIPTIONS
**YUMA ROAD IMPROVEMENTS FROM S. APACHE ROAD TO 247TH AVENUE AS
PART OF THE TOM JONES FORD DEALERSHIP DEVELOPMENT**

Miscellaneous Construction Activities

Item 1-Mobilization/Demobilization: The Contractor shall furnish all materials, personnel, and equipment necessary to mobilize/demobilize to/from the construction site to perform construction related activities related to the plans and specifications. Included in this are the Contractor related expenses to manage and conduct construction, including construction water and dust control, fencing, secure storage, and related activities associated with the proposed improvements.

Mobilization/Demobilization will be measured as a single complete item of work and paid as a lump sum price.

Item 2 -Traffic Control: The Contractor shall furnish all materials, personnel, and equipment necessary to provide traffic control during construction activities in accordance with the applicable City of Buckeye and ADOT Traffic Control standards. The Contractor shall prepare a Traffic Control Plan for the proposed construction related activities and submit it to the City of Buckeye and ADOT for approval prior to implementation of the plan.

Traffic Control will be measured as a single complete item of work and paid as a lump sum price.

Item 3 – Construction Surveying: The Contractor shall furnish all materials, personnel, and equipment necessary to perform surveying, staking, laying out control lines, verification of the accuracy of all existing control points which are delineated in the plans, conduct as-built surveys, prepare as-built set of drawings for submission to the City of Buckeye and to the Engineer of Record. This work shall be done under the direction of a Registered Land Surveyor licensed to practice in the State of Arizona.

All existing survey monuments that lie within the construction area that may be disturbed shall be referenced to a specific point on at least four (4) stable objects by distance measurement. Reference objects shall be located no greater than three-hundred (300) feet from the survey monument being referenced.

The Contractor shall set construction stakes and marks to establish lines and grades for road work, curbs, gutters, sidewalks, utilities and necessary appurtenances, and other work as indicated in the plans and shall be responsible for their conformance with the plans and

applicable specifications. This item will also include completing and furnishing all certificates necessary to obtain acceptance of the project by all jurisdictions and/or agencies.

Surveying will be measured as a single complete item of work and paid as a lump sum price.

Item 4 - Inspections and Testing: The Contractor shall furnish all materials, personnel, and equipment necessary to perform all sampling, materials testing, and reporting of test results in accordance with the applicable Maricopa Association of Governments Uniform Standard Specifications for Public Works Construction as applicable per the following Materials Testing & Sampling Guide or as directed by the City of Buckeye Engineering Department.

MATERIALS TESTING & SAMPLING GUIDE

MAG Specification Section	Material	Type of Test (s) Required	Sampling Point	Minimum Sampling Frequency
205, 206, 301, 601,	Soil Backfill Or Trench Backfill	Proctor Density	In-Place	One per soil type
		Compaction	In-Place	One per 500ft per lift
	Subgrade	Proctor Density	Roadway	One per soil type
		Compaction	Roadway	One per 500ft, per lift
		Gradation, PI	In-Place Roadway	One per soil type
Manholes and Laterals	Compaction	In-Place	One per structure, pipe & lateral trench at various lifts	
205, 601	Roadway Excavation, Embankments	Proctor Density	In-Place	One per soil type
		Compaction	In-Place	One per 1,000 CY
		Gradation, PI	In-Place Or Source	One per soil type
211	Fill Construction	Compaction	In-Place	One per 500ft, per 8" Lift (MAG 211.3)
701,702	Aggregate Base* (ABC)	Proctor Density	Roadway and Pipe Bedding	At start of production, then as material Changes
		Compaction	Roadway and Pipe Bedding	One per 500ft, per lift, per lane pass
		Gradation, PI	Roadway and Pipe Bedding	One per project, or one per 1,000 tons or fraction thereof
321, 322	Hot In-Place Asphaltic Concrete	Mix Design Properties		Test Not Required
		Density/Nuclear	Roadway	One per 500ft, per lift, per lane pass
		Density/Core	Roadway	5 to 7 cores per mix/ Project ** (additional cores to be taken if source or mix changes)

MAG Specification Section	Material	Type of Test (s) Required	Sampling Point	Minimum Sampling Frequency
321, 322, 710	Hot In-Place Asphaltic Concrete	Oil Content and Gradation **	If no City Inspector At Plant, Sample In-Place	One per day or One per 500 tons Or fraction Thereof
505, 701, 702, 725	Concrete Flat Work, Cast-in-Place Concrete, or Structural Concrete	Compressive Strength	At Discharge	One set of four cylinders per 50 CY Or one per shift
		Slump, Time & Temperature ***	At Discharge	One per set of Cylinders
701, 702 725, 728	Lean Mix Concrete (Slurry)	Compressive Strength	At Discharge	One set of four cylinders per shift

Remarks:

1. All Compaction failures will be re-tested using a Sandcone. Any resulting failure will be re-worked before any re-tests are performed.
2. The Nuclear Gauge shall be calibrated against the Sandcone at least every ten tests or per the City Engineer. Rock correction shall be used for any +#4 material to obtain Max Proctor Density.
3. The City Inspector on an as needed basis may require additional tests.
4. Manhole shafts & Concrete Pipe need to have acceptance stamp on them and VCP need D-Load test results from Certified Lab.

* If Asphalt Millings are used for bedding, they shall meet the requirements of virgin aggregate base course. Asphalt Millings are not accepted as ABC for pavement cross section.

** Asphalt deficient in oil content, at the direction of the City Inspector/Lab, will be cored 50' on both sides of the failed section. The results of these 2 cores will be averaged with the original test result. Also the cores for gauge calibration.

*** Concrete Specification for time shall be 90 minutes and temperature is 90 degrees

Sampling, materials testing, and reporting of test results will be measured as a single complete item of work and be incorporated into the Contractor's Schedule of Values.

Removals/Relocations

Item 5 – Sawcut and Remove Existing Pavement: The Contractor shall furnish all materials, personnel, tools and equipment necessary to remove existing asphalt pavement designated on the improvement plans and in accordance with the applicable

specifications. This item shall include saw cuts, milling, removal, disposal and haul off of pavement fill material, and backfill and compaction of the fill material to the level of proposed pavement subgrade or finished grade in areas outside the limits of the proposed pavement.

Payment for this item will be based on a square yard basis of pavement removed.

Item 6 – Saw cut and Remove Existing Curb and Gutter: The Contractor shall furnish all materials, personnel, tools and equipment necessary to remove existing single curb, curb and gutter, embankment curb and temporary curb designated on the improvement plans and in accordance with the applicable specifications. This item shall include saw cuts, removal and disposal of curb materials, fill material and backfill and compaction of fill material to the level of proposed pavement subgrade or finished grade in areas outside the limits of proposed pavement.

Payment for this item will be based on a linear foot basis of curb removed.

Item 7 – Saw cut Existing Pavement/concrete and Replace with T-Top per MAG 200: The Contractor shall furnish all materials, personnel, tools and equipment necessary to remove and replace any existing pavement/concrete designated on the improvement plans with T-Top per MAG 200 and in accordance with the applicable specifications. This item shall include demolition, excavation, disposal, fill material, backfill and compaction and replacement with T-Top per MAG 200 to the level of proposed pavement/concrete or finished grade in areas outside the limits of the proposed pavement.

Payment for this item will be based on a square yard basis of pavement/concrete removed and replaced.

Item 8 – Salvage and relocate existing Cacti: The Contractor shall furnish all materials, personnel, tools and equipment necessary to salvage and relocate existing cacti as indicated on the plans in accordance with the applicable specifications. This item shall include excavation, transportation, watering reestablishment, and backfill around the relocated cacti.

Payment for this item will be based on a unit basis of each Cacti salvaged and relocated.

Earthwork/Paving

Item 9 – Site Prep., Clearing, Grubbing: The Contractor shall furnish all materials, personnel, tools and equipment necessary for site prep., clearing, and grubbing as designated on the improvement plans and in accordance with the applicable specifications.

Payment for these items will be based on an acre basis of site prep., clearing, and grubbing complete in place.

Item 10 – Total Cut, Place, and Compact Material: The Contractor shall furnish all materials, personnel, tools and equipment necessary for cut, place, and compact material designated on the improvement plans and in accordance with the applicable specifications.

Payment for these items will be based on a cubic yard basis of total cut, place, and compact material complete in place.

Item 11 – Cut and Off-Site Disposal of spoils: The Contractor shall furnish all materials, personnel, tools and equipment necessary for cut and off-site disposal of soils from the roadway improvements in accordance with the City of Buckeye applicable requirements and specifications.

Payment for this item will be based on a cubic yard basis of cut and off-site disposal.

Item 12 – Final Grading of Roadway: The Contractor shall furnish all materials, personnel, tools and equipment necessary for the final grading of roadway designated on the improvement plans and in accordance with the applicable specifications.

Payment for this item will be based on a square yard basis of the final grading of roadway complete in place.

Item 13 – Heavy Duty AC Pavement – 6” AC on 12” ABC: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install asphaltic concrete pavement over aggregate base course (“ABC”) at the locations specified in the plans and in accordance with the Heavy Duty Asphalt Pavement Detail shown on the improvement plans and applicable specifications. This item will include furnishing, placement, and compaction of aggregate base course material and asphaltic concrete courses. Subgrade preparation per MAG Specification 301 is also included in this item.

Payment for this item will be based on a square yard basis of asphaltic concrete over ABC installed complete and ready for vehicular traffic.

Item 14 – Heavy Duty Concrete Pavement and Driveway Entrances – 9” PCCP on 4” ABC on Compacted Subgrade: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install heavy duty concrete materials with fiber mesh at the locations specified in the plans and in accordance with the Heavy Duty Concrete Pavement Detail (including 4” AB as specified) shown on the improvement plans (including driveway entrances) and applicable specifications. This item will include furnishing, placement, finishing, testing, curing, scoring, and saw cutting of concrete pavement. Subgrade preparation per MAG Specification 301 and geotechnical recommendations is also included in this item.

Payment for this item will be based on a square yard basis of heavy duty concrete pavement installed complete and ready for vehicular traffic.

Item 15 – Thickened Edge: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct thickened pavement edge per MAG standard detail 201 Type ‘A’ and the applicable specifications as indicated on the plans. This item will include excavation, asphalt, backfill, compaction, and all other work necessary to construct the thickened edge as specified.

Payment for this item will be based on a linear footage of thickened edge complete in place.

Item 16 – 6” Vertical Curb and Gutter: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct vertical curb and gutter per MAG Det 220, Type A as shown on the improvement plans and included in the applicable specifications. This item will include form work, expansion joints, construction joints, testing, finishing, curing, backfill and saw cuts, and all other work necessary to construct the vertical curb and gutter complete in place as specified.

Payment for these items will be based on a linear foot basis of concrete curb and gutter complete in place.

Item 17 – 6” Single Curb: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct 6” single curb Per MAG Det 222, Type A as shown on the improvement plans and included in the applicable specifications. This item will include form work, expansion joints, construction joints, testing, finishing, curing, backfill, saw cuts, and all other work necessary to construct the 6” single curb complete in place as specified.

Payment for these items will be based on a linear foot basis of concrete 6” single curb complete in place.

Item 18 – Concrete Sidewalk: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct concrete sidewalk Per MAG Det 230 as shown on the improvement plans and included in the applicable specifications. This item will include form work, expansion joints, construction joints, testing, finishing, curing, backfill, saw cuts, and all other work necessary to construct the sidewalk complete in place as specified.

Payment for these items will be based on a square foot basis of concrete sidewalk complete in place.

Item 19 – Sidewalk Ramp per MAG 235-2: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct sidewalk ramps with truncated domes per MAG standard detail 235-2 and the applicable specifications. This item will include form work, truncated domes, expansion joints, construction joints, testing, finishing, curing, backfill, saw cuts, and all other work necessary to construct the sidewalk ramps complete in place as specified.

Payment for this item will be based on a unit basis of each sidewalk ramp with truncated domes complete in place.

Item 20 – Sidewalk Ramp per MAG 235-1 : The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct sidewalk ramps with truncated domes per MAG standard detail 235-2 and the applicable specifications, as indicated on the plans. This item will include form work, truncated domes, expansion joints, construction joints, testing, finishing, curing, backfill, saw cuts, and all other work necessary to construct the sidewalk ramps complete in place as specified.

Payment for this item will be based on a unit basis of each sidewalk ramp with truncated domes complete in place.

Item 21 – Adjust Valve Box/Sewer Cleanouts to Grade: The Contractor shall furnish all materials, personnel, tools and equipment necessary to adjust water valves/sewer cleanouts to grade per MAG standard detail 391-1 and the applicable specifications as indicated on the plans. This item will include form work, concrete, finishing, curing, backfill, saw cuts, and all other work necessary to construct the complete the adjustment in place as specified.

Payment for this item will be based on a unit basis of each valve adjustment complete in place.

Item 22 – Adjust Manhole to Grade: The Contractor shall furnish all materials, personnel, tools and equipment necessary to adjust manhole to grade per MAG standard detail 422 and the applicable specifications as indicated on the plans. This item will include form work, concrete, finishing, curing, backfill, saw cuts, and all other work necessary to construct the complete the adjustment in place as specified.

Payment for this item will be based on a unit basis of each manhole adjustment complete in place.

Item 23 – Barricades: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install barricades Type ‘B’ barricade per MAG standard detail 130 as designated on the improvement plans and in accordance with the applicable specifications.

Payment for this item will be based on a linear foot of barricade complete in place.

Item 24 – Survey Markers: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install survey markers as designated on the improvement plans, per MAG standard detail 120, and in accordance with the applicable specifications.

Payment for this item will be based on a unit basis of installing survey markers complete in place.

Item 25 – Signing and Marking: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install signing and marking as designated on the improvement plans and in accordance with the applicable specifications.

Misc. signing and striping will be measured as a single complete item of work and be paid as a lump sum price.

Erosion and Sediment Control

Item 26 – Erosion Control System: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install an erosion control system as designated on the improvement plans and in accordance with the applicable specifications.

The erosion control system will be measured as a single complete item of work and be paid as a lump sum price.

Drainage

Item 27 – 24” Class V Concrete Storm Drain Pipe and Fittings: The Contractor shall furnish all materials, personnel, tools and equipment necessary to handle, deliver and install 24” storm drain pipe in accordance with the applicable details on plans and with the manufacturer’s recommendations for installation and, insofar as such recommendations and provisions are not in variance with the standard specifications and details. This item will include removal of obstructions, excavation, bedding, backfilling, compacting, testing, joint material, pipe collars, plugs, connections to manholes and/or catch basins, and field closures.

Payment for these items will be based on a linear foot basis of furnishing and installing the 24” storm drain pipe and fittings, specials, adapters, etc. complete in place.

Item 28 – 18” Class V Concrete Storm Drain Pipe and Fittings: The Contractor shall furnish all materials, personnel, tools and equipment necessary to handle, deliver and install 18” storm drain pipe in accordance with the applicable details on plans and with the manufacturer’s recommendations for installation and, insofar as such recommendations and provisions are not in variance with the standard specifications and details. This item will include removal of obstructions, excavation, bedding, backfilling, compacting, testing, joint material, pipe collars, plugs, connections to manholes and/or catch basins, and field closures.

Payment for these items will be based on a linear foot basis of furnishing and installing the 18” storm drain pipe and fittings, specials, adapters, etc. complete in place.

Item 29 – Single Headwall Per MAG Det 501-3 Modified, Type U, with Handrails per City of Buckeye Det B-110 and Access Barrier per City of Buckeye Det B-508: The Contractor shall furnish all materials, personnel, tools and equipment necessary to form and install single concrete headwalls per the plan modified MAG Standard Detail 501-3 at the locations specified on the improvement plans and in accordance with the applicable standard details and specifications. This item will include grading and excavation for placement of headwalls; subgrade preparation per applicable details and specifications; installation of concrete and reinforcing material; installation and removal of concrete formwork; backfill and compaction of backfill material; finished grading; and all other work necessary to construct the headwall complete in place as specified.

The Contractor shall furnish all materials, personnel, tools and equipment necessary to install handrails per City of Buckeye Detail B-110 at the locations specified on the improvement plans and in accordance with the applicable standard details and specifications. This item will include railing posts, fittings, anchorages, installation of handrails into the headwalls, and paint (color per City Inspector).

The Contractor shall furnish all materials, personnel, tools and equipment necessary to install access barrier per City of Buckeye Detail B-508 at the locations specified on the improvement plans and in accordance with the applicable standard details and specifications

Payment for this item will be based on a unit basis of each headwall complete in place.

Item 30 – Double Headwall Per MAG Det 501-3 Modified, Type U, with Handrails per City of Buckeye Det B-110 and Access Barrier per City of Buckeye Det B-508: The Contractor shall furnish all materials, personnel, tools and equipment necessary to form and install double concrete headwalls per the plan modified MAG Standard Detail 501-3 at the locations specified on the improvement plans and in accordance with the applicable standard details and specifications. This item will include grading and excavation for placement of headwalls; subgrade preparation per applicable details and specifications; installation of concrete and reinforcing material; installation and removal of concrete formwork; backfill and compaction of backfill material; finished grading; and all other work necessary to construct the headwall complete in place as specified.

The Contractor shall furnish all materials, personnel, tools and equipment necessary to install handrails per City of Buckeye Detail B-110 at the locations specified on the improvement plans and in accordance with the applicable standard details and specifications. This item will include railing posts, fittings, anchorages, installation of handrails into the headwalls, and paint (color per City Inspector).

The Contractor shall furnish all materials, personnel, tools and equipment necessary to install access barrier per City of Buckeye Detail B-508 at the locations specified on the improvement plans and in accordance with the applicable standard details and specifications

Payment for this item will be based on a unit basis of each headwall complete in place.

Item 31 – Catch Basin Per City of Buckeye Det B-510A and B-510B: 6’ wing: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct the catch basin at the location identified in the improvement plans and in accordance with the applicable specifications. Wing length of 6’ is identified in the improvement plans. This item will include the excavation, backfill, compaction, installation and/or construction of the catch basin, adjustment to grade, preparation of subgrade, concrete, reinforcing steel, items embedded in the concrete such as grates and frames, metal inserts, etc. and all other work necessary to construct the catch basin complete in place as specified.

Payment for these items will be based on a unit basis of catch basin complete in place.

Item 32 – Catch Basin Per City of Buckeye Det B-510A and B-510B: 10’ wing: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct the catch basin at the location identified in the improvement plans and in accordance with the applicable specifications. Wing length of 10’ is identified in the improvement plans. This item will include the excavation, backfill, compaction, installation and/or construction of the catch basin, adjustment to grade, preparation of subgrade, concrete, reinforcing steel, items embedded in the concrete such as grates and frames, metal inserts, etc. and all other work necessary to construct the catch basin complete in place as specified.

Payment for these items will be based on a unit basis of catch basin complete in place.

Item 33 – Catch Basin Per City of Buckeye Det B-510A and B-510B: 17’ wing: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct the catch basin at the location identified in the improvement plans and in accordance with the applicable specifications. Wing length of 17’ is identified in the improvement plans. This item will include the excavation, backfill, compaction, installation and/or construction of the catch basin, adjustment to grade, preparation of subgrade, concrete, reinforcing steel, items embedded in the concrete such as grates and frames, metal inserts, etc. and all other work necessary to construct the catch basin complete in place as specified.

Payment for these items will be based on a unit basis of catch basin complete in place.

Item 34 – Catch Basin Per City of Buckeye Det B-510A and B-510B: 17’ and 3’ wing: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct the catch basin at the location identified in the improvement plans and in accordance with the applicable specifications. Wing lengths of 17’ and 3’ are identified in the improvement plans. This item will include the excavation, backfill, compaction, installation and/or construction of the catch basin, adjustment to grade,

Preparation of subgrade, concrete, reinforcing steel, items embedded in the concrete such as grates and frames, metal inserts, etc. and all other work necessary to construct the catch basin complete in place as specified.

Payment for these items will be based on a unit basis of catch basin complete in place.

Item 35 – Rip-Rap (D50=6” Depth=12”): The Contractor shall furnish all materials, personnel, tools and equipment necessary to install rip rap at the locations shown on the improvement plans and in accordance with the applicable details of the improvement plans and specifications. This item will include excavation, ground surface preparation, bedding material, rip rap stone, grout and backfilling per applicable MAG specifications.

Payment for this item will be based on a square foot basis of total rip-rap installed complete. No separate measurement will be made for bedding material, or grout.

Item 36 – Rip-Rap (D50=6” Depth=20”): The Contractor shall furnish all materials, personnel, tools and equipment necessary to install rip rap at the locations shown on the improvement plans and in accordance with the applicable details of the improvement plans and specifications. This item will include excavation, ground surface preparation, bedding material, rip rap stone, grout and backfilling per applicable MAG specifications.

Payment for this item will be based on a square foot basis of total rip-rap installed complete. No separate measurement will be made for bedding material or grout.

Item 37 – Gravel Disposal Trench Drain: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install gravel disposal trench drain as shown on the improvement plans and in accordance with the applicable details of the improvement plans and specifications. This item will include excavation, ground surface preparation, erosion control geosynthetic fabric, bedding material, stone, and backfilling per applicable MAG specifications.

Payment for this item will be based on a unit basis of gravel disposal trench drains installed. No separate measurement will be made for erosion control geosynthetic fabric, bedding material, or rock.

Utilities

Sewer

Item 38 – 10” VCP Extra Strength: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct 10” VCP Extra strength sewer pipe to the proposed elevations shown on the improvement plans and included in the applicable specifications. This item will include pipe plugs, lining, excavation, removal of obstructions, backfilling, compaction sheeting and bracing, testing, Separation/protection (including encasements) of utilities per MAG Detail 404, and all incidental work not specifically covered in other pay items.

Payment for these items will be based on a linear foot basis of furnishing and installing the 10” VCP extra strength sewer pipe and fittings complete in place.

Item 39 – 8” VCP Extra Strength: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct 8” VCP Extra strength sewer pipe to the proposed elevations shown on the improvement plans and included in the applicable specifications. This item will include pipe plugs, lining, excavation, removal of obstructions, backfilling, compaction sheeting and bracing, testing, separation/protection (including encasements) of utilities per MAG Detail 404, and all incidental work not specifically covered in other pay items.

Payment for these items will be based on a linear foot basis of furnishing and installing the 8” VCP extra strength sewer pipe and fittings complete in place.

Item 40 – Temporary Sewer Cleanout: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct sewer cleanouts as specified on the improvement plans and in accordance with City of Buckeye detail 41270 and the applicable specifications. This item shall include all fittings, connections, excavation and backfill, plugs, approved meter box marked sewer, and all incidental work not specifically covered in other pay items.

Payment for this item will be based on a unit basis of each sanitary sewer manhole complete in place.

Item 41 – 60” Sanitary Sewer Manhole per MAG Det 420 : The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct 60” sanitary sewer manholes as specified on the improvement plans and in accordance with the applicable specifications. This item shall include concrete foundation, foundation walls, formed invert, ladder rungs, steps, connections to existing sewer mains, manhole frames, covers, excavation and backfill, pavement cut replacement in excess of the widths shown in the improvement plans and all incidental work not specifically covered in other pay items.

Payment for this item will be based on a unit basis of each sanitary sewer manhole complete in place.

Item 42 – 48” Sanitary Sewer Manhole per MAG Det 420: The Contractor shall furnish all materials, personnel, tools and equipment necessary to construct 48” sanitary sewer manholes as specified on the improvement plans and in accordance with the applicable specifications. This item shall include concrete foundation, foundation walls, formed invert, ladder rungs, steps, connections to existing sewer mains, manhole frames, covers, excavation and backfill, pavement cut replacement in excess of the widths shown in the improvement plans and all incidental work not specifically covered in other pay items.

Payment for this item will be based on a unit basis of each sanitary sewer manhole complete in place.

Item 43 – Concrete encasement per MAG std det 404: The Contractor shall furnish all materials, personnel, tools and equipment necessary to encase sanitary sewer line per MAG standard detail 404 for extra protection as specified on the improvement plans and in accordance with the applicable specifications. This item shall include excavation, concrete, rebar, backfill, compaction and all incidental work not specifically covered in other pay items.

Payment for this item will be based on a unit basis of each concrete encasement complete in place.

Item 44 – Connect to existing 10” Sewer Main: The Contractor shall furnish all materials, personnel, tools and equipment necessary to connect to the existing main as identified on the plans. This item shall include fittings, tracer wire, excavation, removal of obstructions, shoring and bracing, backfilling, compaction, maintenance of traffic, testing, and all work not specifically covered in other pay items.

Payment for this item will be based on a unit basis for each connection complete in place.

Water

Item 45 – 16” DIP Waterline, Pressure Class 350 w/ Fittings and Polywrap: The Contractor shall furnish all materials, personnel, tools and equipment necessary to handle, deliver and install 16” DIP waterline in accordance with the manufacturer’s recommendations and/or applicable provisions of AWWA standards for installation, insofar as such recommendations and provisions are not in variance with the standard specifications and details. This item will include fittings, tracer wire, polywrap, pipe plugs, excavation, removal of obstructions, shoring and bracing, backfilling, compaction, maintenance of traffic, testing, disinfecting, connections to existing lines or works, separation/protection (including encasements) of utilities per MAG Detail 404, and all work not specifically covered in other pay items.

Payment for these items will be based on a linear foot basis of 16” DIP waterline pipe and fittings, specials, adapters, etc. complete in place.

Item 46 – 12” DIP Waterline, Pressure Class 350 w/ Fittings and Poly wrap: The Contractor shall furnish all materials, personnel, tools and equipment necessary to handle, deliver and install 12” DIP waterline in accordance with the manufacturer’s recommendations and/or applicable provisions of AWWA standards for installation, insofar as such recommendations and provisions are not in variance with the standard specifications and details. This item will include fittings, tracer wire, poly wrap, and pipe

plugs, excavation, removal of obstructions, shoring and bracing, backfilling, compaction, maintenance of traffic, testing, disinfecting, connections to existing lines or works,

separation/protection (including encasements) of utilities per MAG Detail 404, and all work not specifically covered in other pay items.

Payment for these items will be based on a linear foot basis of 12" DIP waterline pipe and fittings, specials, adapters, etc. complete in place.

Item 47 – 8" DIP Waterline, Pressure Class 350 w/ Fittings and Polywrap: The Contractor shall furnish all materials, personnel, tools and equipment necessary to handle, deliver and install 8" DIP waterline in accordance with the manufacturer's recommendations and/or applicable provisions of AWWA standards for installation, insofar as such recommendations and provisions are not in variance with the standard specifications and details. This item will include fittings, tracer wire, polywrap, pipe plugs, excavation, removal of obstructions, shoring and bracing, backfilling, compaction, maintenance of traffic, testing, disinfecting, connections to existing lines or works, separation/protection (including encasements) of utilities per MAG Detail 404, and all work not specifically covered in other pay items.

Payment for these items will be based on a linear foot basis of 8" DIP waterline pipe and fittings, specials, adapters, etc. complete in place.

Item 48 – 6" DIP Waterline, Pressure Class 350 w/ Fittings and Polywrap: The Contractor shall furnish all materials, personnel, tools and equipment necessary to handle, deliver and install 6" DIP waterline in accordance with the manufacturer's recommendations and/or applicable provisions of AWWA standards for installation, insofar as such recommendations and provisions are not in variance with the standard specifications and details. This item will include fittings, tracer wire, polywrap, pipe plugs, excavation, removal of obstructions, shoring and bracing, backfilling, compaction, maintenance of traffic, testing, disinfecting, connections to existing lines or works, separation/protection (including encasements) of utilities per MAG Detail 404, and all work not specifically covered in other pay items.

Payment for these items will be based on a linear foot basis of 6" DIP waterline pipe and fittings, specials, adapters, etc. complete in place.

Item 49 – 2" Copper Type K Water Service w/ Fittings: The Contractor shall furnish all materials, personnel, tools and equipment necessary to handle, deliver and install 2" Copper Type 'K' waterline in accordance with the manufacturer's recommendations and/or applicable provisions of AWWA standards for installation, insofar as such recommendations and provisions are not in variance with the standard specifications and details. This item will include fittings, tracer wire, pipe plugs, excavation, removal of obstructions, shoring and bracing, backfilling, compaction, maintenance of traffic, testing, disinfecting, connections to existing lines or works, separation/protection (including encasements) of utilities per MAG Detail 404, and all work not specifically covered in other pay items.

Payment for these items will be based on a linear foot basis of 2" Copper Type 'K' waterline pipe and fittings, specials, adapters, etc. complete in place.

Item 50 – Fire Hydrant Per MAG Det 360 and 362: The Contractor shall furnish all materials, personnel, tools, and equipment necessary to install fire hydrants at the locations specified on the improvement plans and in accordance with the applicable specifications. This item shall include fittings, tracer wire, markers per City of Buckeye detail 31440, excavation, removal of obstructions, shoring and bracing, backfilling, compaction, maintenance of traffic, testing, disinfecting, connections to existing lines or works and all work not specifically covered in other pay items.

Payment for this item will be based on a unit basis of each fire hydrant installed complete in place and in operating condition.

Item 51 – 16" Gate Valve, Valve Box and Cover Per MAG 391-1 Type C: The Contractor shall furnish all materials, personnel, tools and equipment necessary to furnish and install 16" gate valves, valve boxes and covers as specified on the improvement plans and in accordance with the applicable specifications.

Payment for this item will be based on a unit basis of each 16" gate valve, including valve box and cover, complete in place.

Item 52 – 12" Gate Valve, Valve Box and Cover Per MAG 391-1 Type C: The Contractor shall furnish all materials, personnel, tools and equipment necessary to furnish and install 12" gate valves, valve boxes and covers as specified on the improvement plans and in accordance with the applicable specifications.

Payment for this item will be based on a unit basis of each 12" gate valve, including valve box and cover, complete in place.

Item 53 – 8" Gate Valve, Valve Box and Cover Per MAG 391-1 Type C: The Contractor shall furnish all materials, personnel, tools and equipment necessary to furnish and install 8" gate valves, valve boxes and covers as specified on the improvement plans and in accordance with the applicable specifications.

Payment for this item will be based on a unit basis of each 8" gate valve, including valve box and cover, complete in place.

Item 54 – 6" Gate Valve, Valve Box and Cover Per MAG 391-1 Type C: The Contractor shall furnish all materials, personnel, tools and equipment necessary to furnish and install 6" gate valves, valve boxes and covers as specified on the improvement plans and in accordance with the applicable specifications.

Payment for this item will be based on a unit basis of each 6" gate valve, including valve box and cover, complete in place.

Item 55 – 2” Water Meter Box and Service: The Contractor shall furnish all materials, personnel, tools and equipment necessary to furnish and install 2” water meter box and service as specified on the improvement plans and in accordance with the applicable specifications.

Payment for this item will be based on a unit basis of each 2” water meter box and service, including box and cover, complete in place.

Item 56 – 1.5” Water Meter Box and Service: The Contractor shall furnish all materials, personnel, tools and equipment necessary to furnish and install 1.5” water meter box and service as specified on the improvement plans and in accordance with the applicable specifications.

Payment for this item will be based on a unit basis of each 1.5” water meter box and service, including box and cover, complete in place.

Item 57 –Stub and Plug 16” Water Main: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install 16” x 2” IP Corp stop per COB detail 31368 at the locations specified on the improvement plans and in accordance with the applicable specifications. This item shall include fittings, excavation, removal of obstructions, shoring and bracing, backfilling, compaction, maintenance of traffic, testing, disinfecting, connections to existing lines or works and all work not specifically covered in other pay items.

Payment for this item will be based on a unit basis of each stub and plug complete in place.

Item 58 –Stub and Plug 8” Water Main: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install 8” x 2” IP Corp stop per COB detail 31368 at the locations specified on the improvement plans and in accordance with the applicable specifications. This item shall include fittings, excavation, removal of obstructions, shoring and bracing, backfilling, compaction, maintenance of traffic, testing, disinfecting, connections to existing lines or works and all work not specifically covered in other pay items.

Payment for this item will be based on a unit basis of each stub and plug complete in place.

Item 59 – Connect to existing 16” Water Main: The Contractor shall furnish all materials, personnel, tools and equipment necessary to connect to the existing main as identified on the plans. This item shall include fittings, tracer wire, excavation, removal of obstructions, shoring and bracing, backfilling, compaction, maintenance of traffic, testing, disinfecting, water coordination shutdown and all work not specifically covered in other pay items.

Payment for this item will be based on a unit basis for each connection complete in place.

Streetlights

Item 60 – New Street Light: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install the concrete foundations, street lights at the locations specified in the plans and in accordance with the applicable standard details and specifications. This item will include excavation, poles, foundation, testing, installation of conductor and bond wires, and backfill.

Payment for this item will be on a unit basis for each street lights complete in place.

Item 61 – Street Light Pull Box: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install the pull boxes at the locations specified in the plans and in accordance with the applicable standard details and specifications. This item will include excavation, installation pull boxes, and backfill.

Payment for this item will be on a unit basis for installing pull boxes complete in place.

Item 62 –Street Lighting Conduit (1-2.5’): The Contractor shall furnish all materials, personnel, tools and equipment necessary to install the conduit between pull boxes, conduits and wires from the pull box to the light poles at the locations specified in the plans and in accordance with the applicable standard details and specifications. This item will include excavation and trenching, installation of PVC conduit between pull boxes, testing, installation of conductor and bond wires, and backfill.

Payment for these items will be based on a linear foot basis of street lighting conduit (1-2.5’) complete in place.

Alternate #1

Item 63 – ADOT pull box #7: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install the ADOT pull box #7 with extension per ADOT std detail FM-2.06 at the locations specified in the plans and in accordance with the applicable standard details and specifications. This item will include excavation, installation pull boxes, and backfill.

Payment for this item will be on a unit basis for each pull box complete in place.

Item 64 –ITS conduit (1-2’ and 1-3’): The Contractor shall furnish all materials, personnel, tools and equipment necessary to install the ITS conduit (1-2’ and 1-3’) between ADOT pull box #7 at the locations specified in the plans and in accordance with the applicable standard details and specifications. This item will include excavation and trenching, conduit, fittings, installation of PVC conduit between pull boxes, testing, and backfill.

Payment for these items will be based on a linear foot basis of ITS conduit (1-2.5" a 1-3") complete in place.

Alternate #2

Item 65 –APS Feeder Conduit (2-5"): The Contractor shall furnish all materials, personnel, tools and equipment necessary to install the APS Feeder conduit (2-5") between at the locations specified in the plans and in accordance with the applicable APS standard details and specifications. This item will include excavation and trenching, conduit, fittings, installation of PVC conduit between pull box/cabinet, mule tape, testing, shading, and backfill.

Payment for these items will be based on a linear foot basis of APS feeder conduit (2-5") complete in place.

Item 66 –APS primary Conduit (1-2"): The Contractor shall furnish all materials, personnel, tools and equipment necessary to install the APS primary conduit (1-2") between at the locations specified in the plans and in accordance with the applicable APS standard details and specifications. This item will include excavation and trenching, conduit, fittings, installation of PVC conduit between pull box/cabinet, mule tape, testing, shading, and backfill.

Payment for these items will be based on a linear foot basis of APS primary conduit (1-2") complete in place.

Item 67 – APS Switching cabinet preparation: The Contractor shall furnish all materials, personnel, tools and equipment necessary to prepare the foundation for the APS switching cabinet at the location specified in the plans and in accordance with the applicable APS standard details and specifications. This item will include excavation, conduit sweeps to the cabinet, and backfill in preparation of APS setting the Switching cabinet.

Payment for this item will be on a unit basis for each switching cabinet preparation complete in place.

Item 68 – APS transformer preparation: The Contractor shall furnish all materials, personnel, tools and equipment necessary to prepare the foundation for the APS transformer at the location specified in the plans and in accordance with the applicable APS standard details and specifications. This item will include excavation, conduit sweeps to the cabinet, and backfill in preparation of APS setting the transformer.

Payment for this item will be on a unit basis for each transformer preparation complete in place.

Item 69 – APS pull box installation: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install the APS provided pull box at the locations specified in the

plans and in accordance with the applicable APS standard details and specifications. This item will include excavation, conduit sweeps to the pull box, installation of the pull box, and backfill.

Payment for this item will be on a unit basis for each pull box installation complete in place.

Alternate #3

Item 70 – Accelerated completion by April 15, 2015: The Contractor shall furnish all materials, personnel, tools and equipment necessary to install accelerate final completion and sign off of all Base and Alternates by April 15, 2015.

Accelerated completion will be measured as a single complete item of work and paid as a lump sum price.

**SECTION 500
REPORTS/PLANS**

EXHIBIT B

GEOTECHNICAL REPORT

INFILTRATION TEST RESULT REPORT

STORM WATER POLLUTION PREVENTION PLAN

**SECTION 600
CONSTRUCTION PROJECT
DRAWINGS, PROJECT SCHEDULE
STAGING AREA FOR CONSTRUCTION**

ATTACHMENT 1

**CONSTRUCTION PROJECT DRAWINGS
(OFFSITE IMPROVEMENT PLANS/STREET LIGHT PLAN)**

PROJECT SCHEDULE

STAGING AREA FOR CONSTRUCTION

ADOT PROPOSED ABANDONMENT

ADOT PERMIT

**SECTION 700
CONSTRUCTION CONTRACT**

**ATTACHMENT 2
CONSTRUCTION CONTRACT
JONE BROTHERS INVESTMENT, LLC.**