



Chandler - Arizona
Where Values Make The Difference

**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CP14-001**

1. Agenda Item Number:

10

2. Council Meeting Date:

July 11, 2013

TO: MAYOR & COUNCIL

3. Date Prepared: June 24, 2013

THROUGH: CITY MANAGER

4. Requesting Department: Transportation & Development

5. SUBJECT: Amendment No. 4 to Kimley-Horn and Associates, Inc., for Alma School Road and Chandler Boulevard Intersection Improvements.

6. RECOMMENDATION: Staff recommends City Council approval of Amendment No. 4 to a design services contract with Kimley-Horn and Associates, Inc., for Alma School Road and Chandler Boulevard Intersection Improvements, Project No. ST0807-201, in an amount not to exceed \$355,627 and a revised contract amount of \$1,095,651.

7. BACKGROUND/DISCUSSION: In April 2008, City Council approved a design contract with Kimley-Horn and Associates, Inc., for intersection improvements at Alma School Road and Chandler Boulevard. The proposed intersection improvements include dual left turn lanes, a third auxiliary thru lane, right turn lanes for all directions of travel, raised landscape medians, street lighting, traffic signals, storm drainage, landscaping, and water line replacement. However, due to lack of right-of-way and construction funding, the project design was shelved near 60% design until the funding could be secured in the future.

Staff applied to Federal Highway Administration / Arizona Department of Transportation (FHWA/ADOT) for Highway Safety Improvement Program (HSIP) funds. The City was awarded \$5,393,119 for right-of-way, utility relocation, and construction funding in April 2012. The Alma School Road and Chandler Boulevard intersection currently has one of the highest accident rates in the City. Through the grant application, staff demonstrated that at least a 20% reduction in crashes can occur at this intersection by adding dual left turn lanes and right turn lanes. Over the last 10 plus years, the City has completed several intersection improvement projects similar in scope. Since completion, there has been an average of 35% reduction in overall accidents, a 38% reduction in injury crashes, and a 100% reduction in fatal crashes.

The proposed design services amendment is necessary to identify and estimate options for storm drainage, update the right-of-way surveys and easements, revise the plans and specifications to FHWA/ADOT bidding requirements, provide geotechnical investigations, update the environmental assessment, and do additional potholing. Utility relocation and construction are scheduled for 2014 and 2015, respectively.

8. EVALUATION: On May 8, 2008, City Council approved award of a design services contract for Alma School Road and Chandler Boulevard Intersection Improvements to Kimley-Horn and Associates, Inc. The Request for Qualifications (RFQ) was advertised, and all registered vendors were notified. On December 12, 2007, the City received Statements of Qualifications (SOQ) from ten (10) firms. The SOQs were reviewed by the Selection Committee to ensure solicitation evaluation criteria compliance. Pricing was evaluated and was found to be reasonable. The selection committee recommended award to Kimley-Horn and Associates, Inc., as the most qualified, responsive consultant.

9. FINANCIAL IMPLICATIONS: The costs proposed for this project were comparable to staff estimates and historical design services prices.

Cost:	\$ 678,492
Amendment No. 1	\$ 5,950
Amendment No. 2	\$ 28,427
Amendment No. 3	\$ 27,155
Amendment No. 4	\$ 355,627
Adjusted Contract Price	\$1,095,651

Savings: N/A

Long Term Costs: N/A

Fund Source:

<u>Acct. No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
411.3310.6517.0.6ST316	GO Bonds	Alma School/Chandler Boulevard Intersection	Yes	\$320,627
601.3820.6712.0.6WA110	Water Operating	System Upgrades w/Street Project	Yes	\$20,000
615.3910.6812.0.6WW332	Wastewater Operating	Wastewater System Upgrades w/Street Projects	Yes	\$15,000

10. PROPOSED MOTION: Move City Council award of Amendment No. 4 to a design services contract with Kimley-Horn and Associates, Inc., for Alma School Road and Chandler Boulevard Intersection Improvements, Project No. ST0807-201, in an amount not to exceed \$355,627 and a revised contract amount of \$1,095,651.

ATTACHMENTS: Location Map, Amendment No. 4

APPROVALS

11. Requesting Department



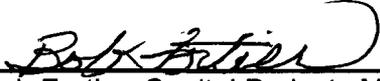
Daniel W. Cook, Transportation Manager

13. Department Head



R.J. Zeder, Transportation & Development Director

12. Transportation & Development



Bob Fortier, Capital Projects Manager

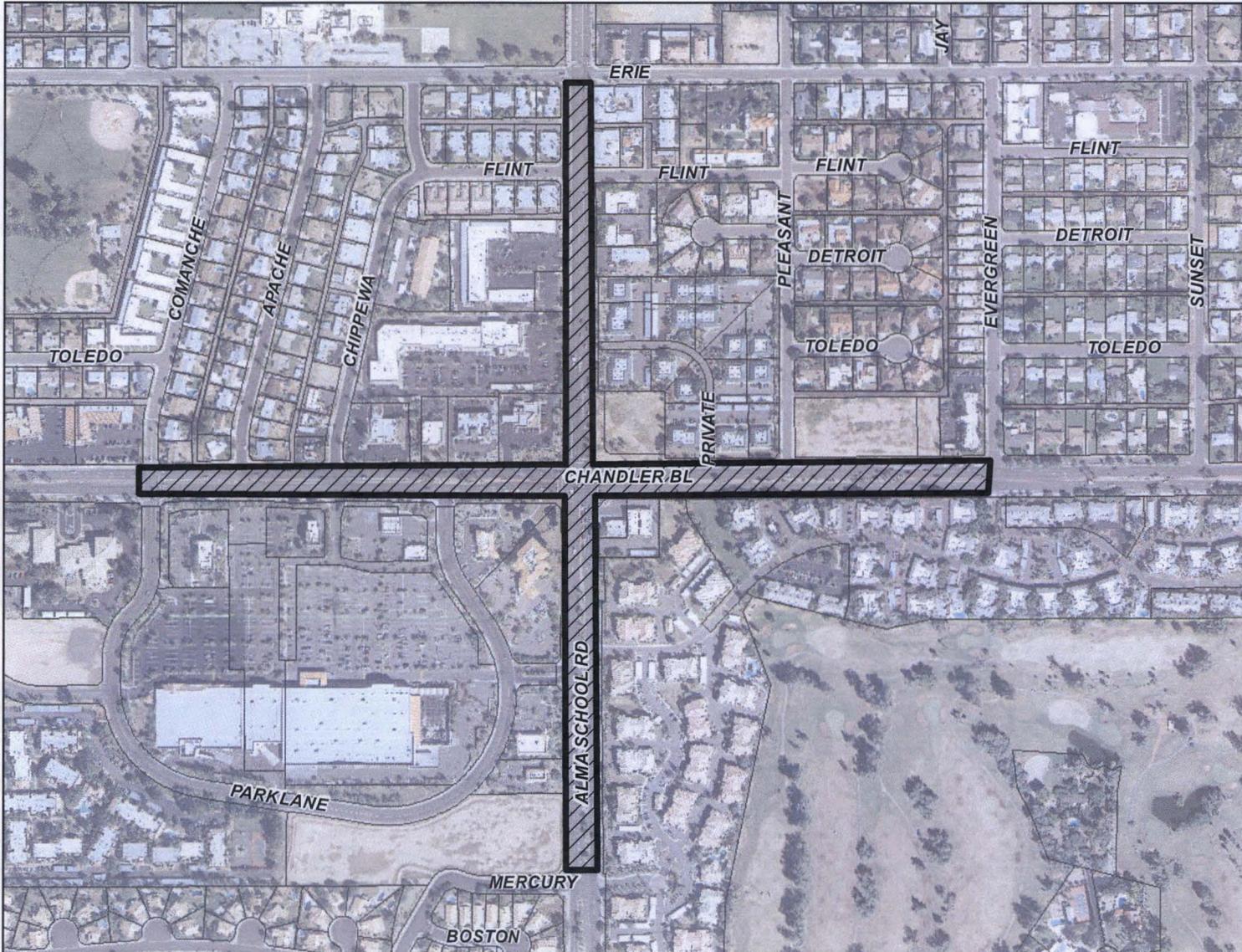
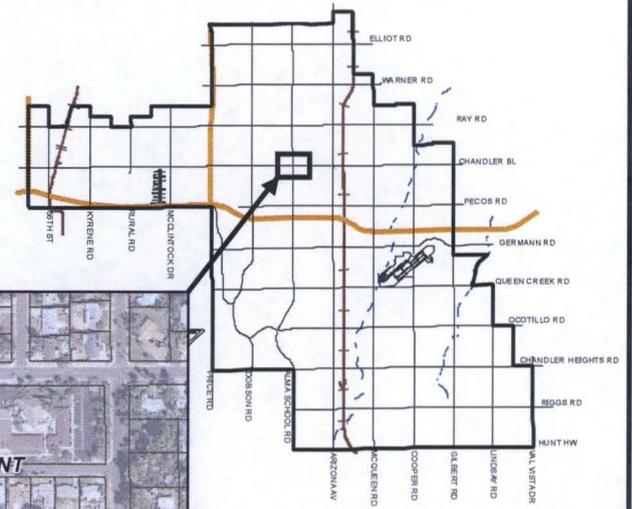
14. City Manager



Rich Dlugas



**CHANDLER BL / ALMA SCHOOL RD
INTERSECTION IMPROVEMENTS
KIMLEY-HORN DESIGN AMENDMENT #4
PROJECT NO. ST0807-201**



MEMO NO. CP14-001

 **PROJECT LOCATION**





Chandler Arizona

AMENDMENT NUMBER 4

Project Name: Alma School Road & Chandler Blvd. Intersection Improvements
Project No.: ST0807-201

This Amendment No. 4 to that certain Agreement between the City Of Chandler (CITY) and Kimley-Horn and Associates, Inc., a North Carolina Corporation, dated May 19, 2008 for Alma School Road and Chandler Boulevard Intersection Improvements is entered into this ____ day of _____, 2013.

WHEREAS the parties have determined that it is necessary and desirable for CONSULTANT to perform additional services for CITY;

NOW THEREFORE, the parties agree as follows:

1. Section 3, of the above referenced Agreement, is hereby; amended by adding additional scope of work described in more detail in Exhibit A attached hereto and incorporated herein by reference.
2. Section 4, of the above referenced Agreement, is hereby; amended by increasing the total contract price by an amount not to exceed the sum of Three Hundred Fifty Five Thousand and Six Hundred Twenty Seven Dollars, (\$355,627) for a total Contract Price not to exceed the sum of One Million Ninety Five Thousand Six Hundred Fifty One Dollars (\$1,095,651) of all payable in accordance with Exhibit B, attached hereto and incorporated herein by reference.
3. Section 5, of the above referenced Agreement is hereby amended by increasing the Contract Time by Six Hundred (600) days for a total Contract Time of One Thousand Six Hundred Ninety (1,690) days from the original Notice to Proceed.
4. All other terms and conditions of the above referenced Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties have hereunto subscribed their names this ____ day of _____, 2013.

CITY OF CHANDLER:

By: _____
MAYOR Date

APPROVED AS TO FORM:

City Attorney by: *[Signature]*

ATTEST: _____

City Clerk

SEAL

CONSULTANT:

By: *[Signature]*

Title: BRENT MUTTI, VICE-PRESIDENT

ATTEST: (If corporation)

Secretary

WITNESS: (If Individual or Partnership)

Amendment No. 4 (cont.)

Project No. ST0807-201

These changes result in the following adjustments of contract amount and time:

Original Contract amount:	\$ 678,492
Current Contract amount, prior to this Amendment: (including previous amendments)	\$ 740,024
Net change resulting from this Amendment: (if over \$50,000 from Contract amount previously approved by Council, Council action is required)	\$ 355,627
Revised Contract amount, including this amendment:	\$ 1,095,651
Last Contract amount approved by Council:	\$ 740,024
Amendment % of last Contract amount approved by Council: (if over 10% of previous amount approved by Council, Council action is required)	<u>48.06%</u>
Contract time or completion date prior to this Amendment: (including previous amendments)	<u>1,090</u> or _____ Days Date
Net change resulting from this Amendment:	<u>600</u> or _____ Days Date
Revised Contract time or completion date: (including this amendment)	<u>1,690</u> or _____ Days Date
<p>THIS AMENDMENT No. _____ does NOT require Council approval: _____</p> <p>Amendment is less than 10% of Contract amount last approved by Council <u>Or</u> revised Contract amount is less than \$30,000* (*including City Manager approved Amendments)</p>	
<p>THIS AMENDMENT No. <u>4</u> does require Council approval: <u>X</u></p> <p>Amendment causes the Contract amount to exceed \$30,000* Or Amendment is greater than 10% of Contract amount approved by Council (*including City Manager approved Amendments)</p>	
<p>Amendment No. <u>4</u> Council approval: _____ Item No.: _____, if applicable</p> <p>City of Chandler (Date & Name of Owner Dept. verbal approval): <u>Paul Young 5/24/13</u></p>	

E-copy: Project Analyst Project Support Asst. Project Mgr Consultant Owner File

EXHIBIT A SCOPE OF WORK

Contract Amendment No. 4 shall address scope changes based on the City of Chandler's (City) recent award of an ADOT Highway Safety Improvement Program (HSIP) grant to obtain Federal funding including:

- the evaluation and possible elimination of queue jumper lanes;
- update the design to meet current City standards;
- revisit intersection alternatives to attempt to avoid a complete acquisition of Circle K (southeast corner);

The following are the specific scope of work tasks to address the changes associated with the HSIP grant and to complete the final construction documents.

Task No. 1 - Supplemental Survey

This task consists of supplemental control and topographic survey services. The supplemental survey shall consist of verifying survey control and topographic survey for the recently constructed improvements for the Rally's commercial center (northwest quadrant) and the Western State Bank (northeast corner). In addition, at the time of the original survey, the City's Control Base List was last updated August 2007. The City's current Control Base List dates from June 2011 and includes a vertical datum shift from NGVD29 to NAVD88. Survey control for the project shall be in accordance with City requirements. The original survey will be adjusted accordingly with the new datum. CONSULTANT will update the geometric and topographic base files as well as the existing digital terrain model based on the supplemental survey and the change in the City datum.

Task No. 2 – Update Utility & Right-of-Way Base Files

CONSULTANT will contact utility companies with facilities located within the project limits. Contact will include requesting the latest records from the individual utility companies including construction of recently installed facilities.

Based on pothole data and record information received from utility companies, CONSULTANT will update the existing utility base file.

Our subconsultant (Entellus) will review and update the existing right-of-way base file based on updated title reports supplied by the City of Chandler. In addition, to updates to the existing right-of-way file, CONSULTANT will update property owner information and notation on the construction plans based on the latest title report information.

Once new right-of-way and easement requirements have been approved by the City of Chandler, CONSULTANT will review legal descriptions and exhibits prepared by our subconsultant (Entellus). The preparation of the legal descriptions and exhibits by the subconsultant are included with the original contract. CONSULTANT will maintain a right-of-way and easement acquisition log to assist the City of Chandler with the progress of land documents, appraisals, and land acquisitions.

Task No. 3 – Geotechnical Investigations

This task consists of providing supplemental geotechnical investigations. This includes providing additional borings to better define the location of existing pavement structural sections for removal. In addition, supplemental borings will be provided to confirm the location of poor subgrade materials found during the original geotechnical investigations.

Task No. 4 - Utility Coordination

CONSULTANT will contact utility companies with facilities located within the project limits to inform them that the project is starting and obtain the primary engineering contact information. The updated contact information will be used for the project files, special provisions and cover sheet.

CONSULTANT anticipates 5 utility coordination meetings during the design of the project. For each utility coordination meeting, CONSULTANT will provide the sign-in sheet, agenda, hand-outs and prepare meeting notes for each meeting.

In addition to utility coordination meetings, CONSULTANT has included tasks for two individual utility company meetings.

Based on the results of the intersection alternative analysis, CONSULTANT will develop a pothole list, if necessary.

All correspondence and coordination with utility companies will be coordinated with the City of Chandler's designated Utility Coordinator for this project.

Task No. 5 – Update Intersection Alternative Memo

CONSULTANT will update the past intersection alternative memo prepared as part of the original contract. CONSULTANT will update the recommended intersection alternatives to show potential alternatives including the possible elimination of the proposed queue jumper lanes and/or reduction in lane widths. The updated memo will include adjusting alignments to evaluate whether the existing Circle K (southeast corner) can remain and not require a full acquisition as originally proposed. CONSULTANT's evaluation will also include schematic options for potentially relocating the existing trash enclosure and/or relocating parking for the existing Circle K business to help avoid a full acquisition.

CONSULTANT will evaluate a potential option for retention requirements that may minimize the impact to Circle K.

CONSULTANT will present the finding of the updated intersection alternative memo to City of Chandler staff and will provide support to City of Chandler staff as needed for presentations to City of Chandler Council including a roll plot/board showing the recommended intersection alignment for approval.

Updates to Construction Documents and Proposed Design Schedule

CONSULTANT will update the proposed construction documents based on the elimination of the queue jumper lanes, recently constructed improvements (i.e. Rally's, Western States Bank, etc.) and updates to the City of Chandler standards. The plans and specifications will be prepared to FHWA/ADOT/MAG and City of Chandler standards. The City has indicated three remaining design submittals:

- **Intersection Alternative Recommendation** – Discussed in Task No. 5
- **95% Design Submittal**
- **100% (Final) Design Submittal**

The **95% Design Submittal** will address 60% City of Chandler comments received and will include the following documents:

- 10 copies of 60% plan comments and annotated comment sheets
- 8 full size sets of construction plans
- 8 half size sets of construction plans
- 6 copies of the technical special provisions
- 6 copies of the engineer's estimate and bid item lists
- 6 copies of the Draft Final Drainage Report
- 1 plan checklist
- 1 right-of-way strip map
- 2 utility strip map
- 2 full size sets of construction plans for each utility company

The **100% (Final) Design Submittal** will address 95% City of Chandler comments received and will include the following documents:

- 11 copies of 95% plan comments and annotated comment sheets
- 1 sealed full size set of construction plans on 4 mil Mylar
- 1 sealed set of the technical special provisions
- 6 copies of the Final Drainage Report
- 1 set of the engineer's estimate and bid item lists
- 1 right-of-way strip map
- 1 utility strip map

Task No. 6 – Roadway

CONSULTANT will update the following roadway construction documents:

- Cover Sheet (1 Sheet) – update council information and utility contacts
- Legend/Abbreviations/Key Map/Index of Sheets (1 Sheet) – updates throughout

- General Notes Sheet (1 Sheet) – update based on changes to City standards/requirements
- Geometric Control Sheets (1 Sheet) – update based on changes in project control
- Typical Section Sheets (2 Sheets) – update based on elimination of queue jumper lanes, potential changes due to Alternative Analysis and City of Chandler standard updates
- Demolition Sheets (13 Sheets) – update based on supplemental survey and updates to the proposed design impacting existing improvements
- Overall Pavement Location Sheet (1 Sheet) – update based on the results of the supplemental geotechnical investigations and City of Chandler coordination
- Paving Plan Sheets (13 Sheets) – update based on elimination of queue jumper lanes, potential changes due to Alternative Analysis and City of Chandler standard updates
- Paving Profile Sheets (13 Sheets) - update based on elimination of queue jumper lanes, potential changes due to Alternative Analysis and City of Chandler standard updates
- Intersection Detail Sheets (1 Sheet) - update based on elimination of queue jumper lanes and potential changes due to Alternative Analysis
- Driveway Detail Sheets (5 Sheets) - update based on elimination of queue jumper lanes, potential changes due to Alternative Analysis and City of Chandler standard updates

CONSULTANT will update the proposed 3D model that provides cut and fill lines, shows impacts to existing improvements and determines preliminary earthwork values.

CONSULTANT will provide updated roadway quantities and special provisions for each submittal.

CONSULTANT will revise roadway plans to account for a new City datum.

Task No. 7 – Drainage

CONSULTANT will update the following drainage construction documents:

- Grading and drainage plan and profile sheets (9 sheets) – update based on elimination of queue jumper lanes, potential changes due to Alternative Analysis per Task No. 6 and City of Chandler standard updates.

CONSULTANT will prepare an update Draft Final Drainage Report for the 95% Design submittal.

CONSULTANT will address one round of review comments from the Draft Final Drainage Report and submit a Final Drainage Report with the 100% Design Submittal.

CONSULTANT will update the proposed 3D model for proposed retention basins.

CONSULTANT will provide updated drainage quantities and special provisions for each submittal.

CONSULTANT will revise drainage plans to account for a new City datum.

Task No. 8 – Signing/Pavement Marking

CONSULTANT will update the following signing and pavement marking construction documents:

- Pavement Marking Plan Sheets (4 Sheets) – update based on elimination of queue jumper lanes, potential changes due to Alternative Analysis and City of Chandler standard updates
- Signing Plan Sheets (4 Sheets) – update based on elimination of queue jumper lanes, potential changes due to Alternative Analysis and City of Chandler standard updates
- Signing Detail Sheet (1 Sheet) – update based on City of Chandler standard updates

CONSULTANT will provide updated signing/pavement marking quantities and special provisions for each submittal.

Task No. 9 – Traffic Signal

CONSULTANT will update the following traffic signal construction documents:

- Traffic Signal Removal Plan Sheet (1 Sheet) – update based on elimination of queue jumper lanes, potential changes due to Alternative Analysis and City of Chandler standard updates
- New Traffic Signal Plan Sheet (1 Sheet) – update based on elimination of queue jumper lanes, potential changes due to Alternative Analysis and City of Chandler standard updates. The design will include wiring for the future queue jumper lane.

- Traffic Signal Detail/Schedules Sheet (1 Sheet) – update based on updated design and City of Chandler standard updates

CONSULTANT will provide updated traffic signal quantities and special provisions for each submittal.

Task No. 10 – ITS

CONSULTANT will update the following ITS construction documents:

- Interconnect Plan Sheets (2 Sheets) – update based on elimination of queue jumper lanes, installation of fiber optic cable infrastructure, installation of a CCTV camera at the intersection, potential changes due to Alternative Analysis and City of Chandler standard updates

CONSULTANT will provide updated interconnect quantities and special provisions for each submittal.

Task No. 11 – Street Lighting

CONSULTANT will update the following street lighting construction documents:

- Street Lighting General Notes Sheet (1 Sheet) – update based on changes to City , SRP or APS standards/requirements
- Street Lighting Plan Sheets (4 Sheets) – update based on elimination of queue jumper lanes, potential changes due to Alternative Analysis and City of Chandler standard updates. Additional field coordination with SRP and APS will also be needed to: 1) update them on the project status; 2) discuss any changes in their standard details for providing unmetered service; and 3) coordinate conduit/pull box interconnection with existing SRP and APS provided street lighting circuits.
- Street Lighting Photometrics Key Map (1 Sheet) – updates throughout
- Street Lighting Photometrics Plan Sheets (6 Sheets) – update based on elimination of queue jumper lanes, potential changes due to Alternative Analysis and City of Chandler standard updates

CONSULTANT will provide an updated photometric analysis based on the updated roadway geometrics.

CONSULTANT will provide updated street lighting quantities and special provisions for each submittal.

Task No. 12 – Landscape & Irrigation

Task No. 13 – SWPPP

CONSULTANT will update the following SWPPP construction documents:

- SWPPP Cover Sheet (1 Sheet) – updates throughout
- SWPP Data & Detail Sheets (3 Sheets) - update based on updated design and latest details updates
- SWPPP Plan Sheets (13 Sheets) – update based on updated design and City of Chandler standard updates

CONSULTANT will provide updated SWPPP quantities and special provisions for each submittal.

Task No. 14 – Cost Estimate and Special Provisions

CONSULTANT will package the cost estimate and bid item list based on ADOT bid items. The cost estimate and bid item lists may be broken out separately to divide the HSIP and CMAQ work items. Cost estimate and bid item lists will be provided at the 95% and 100% (Final) design submittals.

CONSULTANT will package the technical special provisions and coordinate with the City of Chandler to develop the final project specifications. Technical special provisions will be provided at the 95% and 100% (Final) design submittals.

Task No. 15 – Public Meetings

CONSULTANT will attend up to 3 public meetings anticipated for this project. The public meetings are tentatively scheduled to occur during the alternative analysis development, after the 95% design submittal and after the 100% (Final) design submittal. CONSULTANT assumes that 2 CONSULTANT team members will attend each public meeting.

This task includes the preparation of exhibits, display boards, and hand-outs for each public meeting.

CONSULTANT will prepare meeting notes for each public meeting.

Task No. 16 - City Meetings

CONSULTANT has included 6 meetings with City of Chandler staff over the course of the design schedule. This includes two meetings to present/finalize the recommendations for the Intersection Alternative Analysis and one comment resolution meeting after the 95% design review.

CONSULTANT will provide the sign-in sheet, agenda, hand-outs and roll plots as required, for each City of Chandler meeting.

CONSULTANT will prepare meeting notes for each meeting.

Task No. 17 - Project Administration

CONSULTANT will develop a revised project schedule that meets the City of Chandler's requirements for HSIP grant. The schedule will be maintained and updated throughout the design schedule.

This task includes CONSULTANT's internal quality assurance/control throughout the design schedule.

This task includes the maintenance of project files, CADD files and correspondence. A status binder will be prepared for the construction documents throughout the design schedule.

CONSULTANT staff will meet internally to communicate information from City or utility progress meetings and coordinate issues related to each design submittal.

CONSULTANT will provide answers to Pre-Bid questions on an as needed basis and attend one pre-bid meeting.

Task No. 18 – Waterline Design (Allowance)

CONSULTANT will prepare a waterline design to replace the existing waterlines within the project limits upon the City's approval. This allowance is based on a relocation design not to exceed \$20,000.

Task No. 19 – Sewer Manhole Rehabilitation (Allowance)

CONSULTANT will provide sewer rehabilitation services within the project limits upon the City's approval. This allowance is based on sewer rehabilitation services not to exceed \$15,000.

Task No. 20 – Project Assessment (Allowance)

CONSULTANT will prepare a scoping document in the form of a Project Assessment (PA) that meets ADOT requirements for federal funding for environmental clearance upon the City's approval. CONSULTANT assumes the following content will be included in the PA:

- Title Page
- Introduction
 - Project numbers and location
 - Programming fiscal year
 - Type and amount of federal funds
 - Estimated construction cost
 - Street classification
 - Purpose of the project
- Background Data
 - Existing features within the project limits
 - Existing typical roadway section
 - Posted speed/design speed
 - Existing drainage condition relative to pave dirt shoulders only
 - Existing utilities located within or near the project limits
 - Existing right-of-way and land use
 - If required, current and future traffic data
- Project Scope
- Development Considerations

- Environmental requirements
- Outside projects in the area
- Topographic survey
- Seasonal considerations
- Right-of-way requirements
- Utility relocation requirements
- Traffic control requirements
- Design criteria/exceptions
- Other Requirements (i.e. funding sources, schedule, and construction admin.)
- Estimated Cost
- Itemized Estimate
- Vicinity Map

CONSULTANT will submit an Initial PA and respond to comments that will be incorporated into a Final PA.

Task No. 21 – Additional Final Design (Allowance)

A design allowance is included for additional design due to unforeseen potential changes to the current intersection design.

Exclusions

- Traffic control plans/design
- Post design services beyond assistance with the Pre-Bid Meeting
- Design services for offsite improvements beyond the existing or proposed right-of-way to accommodate adjacent development.
- SRP Irrigation land exchange beyond the hours specified in Task No. 4 – Utility Coordination.
- Conversion of CADD files to various specific formats as may be required by developers, utility companies and/or other stakeholders.
- Review of prior rights documentation. It is assumed that the City will review and make the determination of prior rights status.
- Utility relocation design or preparation of relocation options beyond Task No. 18 and 19.

**EXHIBIT B
FEE SCHEDULE**

DIRECT LABOR

<u>CLASSIFICATION</u>	<u>PERSON HOURS</u>	<u>BILLING RATE/HOUR</u>	<u>TOTAL</u>
Project Manager	210	\$ 199.00	\$ 41,790
Sr. Project Engr	320	\$ 179.00	\$ 57,280
Project Engr	563	\$ 147.00	\$ 82,761
Engr/Designer	527	\$ 111.00	\$ 58,497
Technician/Drafter	583	\$ 87.00	\$ 50,721
Administrative	47	\$ 69.00	\$ 3,243
	<u>2,250</u>	Hours	
		Subtotal	<u>\$ 294,292</u>

DIRECT EXPENSES

(Listed By Item At Estimated Actual Cost - NO MARKUP)

Plotting	\$ 1,702	
Miscellaneous Expenses	\$ 820	
Total Estimated Expenses		<u>\$ 2,522</u>

OUTSIDE SERVICES AND CONSULTANTS

<u>Firm</u>	<u>Cost</u>	<u>Compensation Method</u>	
Entellus - Survey & R/W	\$ 14,248	LS	
Ninyo & Moore - Geotechnical	\$ 17,500	LS	
Anderson Baron - Landscape Architecture	\$ 8,190	LS	
TBE - Potholing	\$ 18,875	CPM	
		Total Outside Services	<u>\$ 58,813</u>
		COST	<u>\$ 355,627</u>