



LOGAN SIMPSON
DESIGN INC.

EXHIBIT 'A'

**CITY OF TEMPE-EL PASO GAS LINE TRAIL
SCOPE OF SERVICES AND FEE
Revised July 18, 2013**

PROJECT DESCRIPTION

The City of Tempe (City) is developing an approximately 2,500-foot long multi-use trail located within a public alley between Kiwanis Park and Rural Road in Tempe, Arizona. Based on the information provided by the City, and as described herein, the trail will be designed as a concrete paved ADA accessible pedestrian and bicycle trail with landscape and lighting enhancements. a public engagement process will solicit neighborhood input into the design. The Project is funded by a Federal Congestion Mitigation and Air Quality Improvement (CMAQ) program grant from the Federal Highway Administration (FHWA), to be administered in accordance with the City's Stewardship Agreement with the Arizona Department of Transportation (ADOT) Local Public Agency Section. The project has an estimated \$1.3 million construction budget. The City will use a traditional Design-Bid-Build delivery method for construction. The project limits are shown in the diagram below:



Logan Simpson Design (LSD) anticipates that the trail design approach will be similar to the existing City trail between South McClintock Road and South Kenwood Lane, directly east of the project site. The representative trail section includes a curvilinear trail alignment with access for utilities, trash pickup and adjacent residents on both sides of the alley. For this project, it is anticipated that trash pickup will be required only on the north side of the alley. Unless otherwise determined by final programming/schematic design phase, the Project's elements will be as follows:

- Multi-use Pedestrian and Bicycle Trail (12' wide, ADA accessible, and meeting AASHTO guidelines).
- Street crossings (raised table, signage and/or striping on South Forest and South College Avenues).
- Desert Landscape theme consistent with City standards watered via drip irrigation.
- Way-finding and trail signage.
- Pedestrian level lighting subject to neighborhood input.
- Site Furnishings (e.g. benches, trash receptacles, etc.) as budget allows.
- Maintain access for trash pick-up, utilities and adjacent properties as agreed to by the City.

LSD will work closely with the City to develop schematic design, design development and construction documents, and provide post design services for the project described above. Although LSD will review access

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and potential impacts to neighboring properties, it is anticipated that there will be no off-site improvements beyond the boundaries of the alley right-of-way and associated local streets. The limits of work extend from a connection to the east parking area at Kiwanis Park, to the west side of the right of way at Rural Road. Work does not include the design of a possible pedestrian crossing at Rural Road.

LSD will conduct an environmental investigation and prepare the documentation necessary to provide National Environmental Policy Act (NEPA) compliance for the project as required for federal funding. A Group II Categorical Exclusion (CE) is anticipated to be the appropriate level of documentation for this project, although it is possible that ADOT will allow a less intensive Condensed Clearance Memorandum (CCM) for a streamlined environmental review process. No new ROW is anticipated. Although temporary construction easements may be required for contractor staging during construction; we expect those to occur on City-owned streets. No easements are anticipated within adjacent, privately-owned lots.

LSD's Design Team includes subconsultants for civil, structural, electrical, and geotechnical tasks on the Project. The subconsultants are listed below:

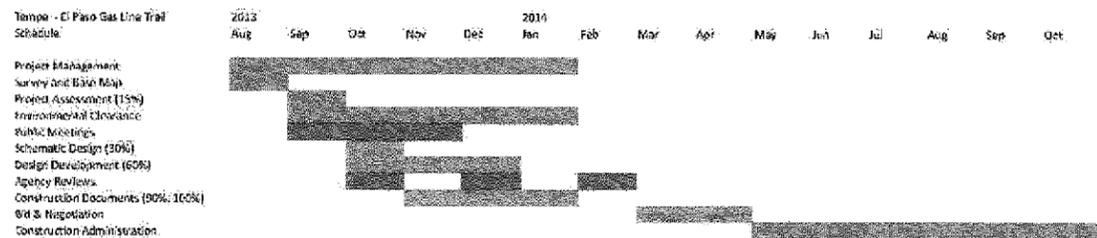
- **Civil Engineering:** T.Y. Lin International
- **Electrical Engineering:** Wright Engineering
- **Geotechnical Testing and Environmental Site Assessment:** Terracon
- **Survey and base mapping:** Arizona Survey and Mapping

OVERVIEW OF PROJECT PHASES

The following is a summary of the major tasks with the Design (Section I) and Post Design (Section II) phases of the Project:

Section I – Design Phase(estimate 6 months to complete)

- Task 1 – Project Management (Continuous during Design Phase to complete)
- Task 2 - Environmental Clearances
- Task 3 – Programming, Project Assessment and Schematic Design (30%)
- Task 4 – Design Development and Preliminary Construction Documents (60%)
- Task 5 – Construction Documents (90% & Final Bid-Ready/Permit CDs)





SECTION I – DESIGN PHASE SERVICES

It is anticipated that all design services will be completed by the end of October, 2014. The following is a summary of the tasks to be performed within the design phase of the Project:

TASK 1: PROJECT MANAGEMENT, PUBLIC OUTREACH and ENVIRONMENTAL SERVICES

During this phase LSD will establish a project management process to monitor and update the Project scope, schedule, and budget, with input from the City's Project Manager (PM). The LSD (PM) and key staff/subconsultants will attend regular (up to 6) project progress meetings and (2) comment resolution meetings, to be coordinated by the City's PM. The purpose of these meetings will be to report on and review work in progress, update project schedule, and collaborate on the of the Project.

The meetings will be used to discuss various technical issues and strategies associated with all phases of the Project. Project Team Meetings (which include City staff and LSD Team members) and Comment Resolution Meetings will be held at the City of Tempe Engineering Office. LSD will prepare meeting notes, document decisions made and action items.

LSD will manage the work of subconsultants and coordinate their schedule as part of normal project management tasks.

Task 1.1 Progress Meetings (up to 6): LSD will attend a project kick-off meeting with the City and the Project Team. This meeting will clarify lines of communication, scope, schedule and other administrative details. LSD will then attend progress meetings with the Client/Project Team on a regular basis to develop the project design. LSD will provide project progress reports as requested by the City's PM.

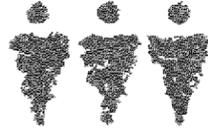
Task 1.2 Preliminary Project Schedule: LSD will provide a project schedule identifying meetings, subconsultant deliverables, and key milestones as required to meet the planned completion date. The schedule will be updated as necessary during the design process to reflect potential changes. LSD anticipates a **6-month period** for completion of the design documents. This aggressive schedule will require the City to expedite internal and external reviews of submittals (Refer to the Assumptions/Exceptions below for potential factors that may affect the Project schedule).

Task 1.3 Comment Review and Resolution Meetings (2): LSD will submit construction documents to the City's PM for review at the following stages of completion:

- 30% Schematic Design
- 60% Design Development
- 90% Construction Documents
- Final Bid and Construction Documents

LSD will participate in review meetings with the Project Team, address comments, and submit a comment resolution summary at each plan review stage. Responses will be documented for all appropriate review comments. Due to the aggressive timeline for completion, we anticipate expedited reviews by the City as follows:

- 30% review - shall be "over the shoulder" with all interested agency partners in attendance
- 60% review - we anticipate a 2-3 week turnaround for comments
- 90% review - we anticipate a 2-3 week turnaround for comments



LSD will submit review documents in three (3) 11x17 packets, and include a PDF electronic copy for further distribution and reproduction. LSD will incorporate review comments into each subsequent submittal.

Task 1.5 Utility Coordination: LSD will assist with utility coordination and agency (ADOT, El Paso Gas, etc.) approvals. Terracon will call for Blue Stake mark outs and coordinate requirements for access. It is anticipated that LSD will provide general coordination by requesting mapping, distributing progress plan submittals to utility companies and other agencies, and related tasks. The City may need to assist in contacting the utility companies for comments and coordinating utility conflict resolution meetings. LSD will be responsible for incorporating existing utility information into the drawings and prepare its design with due consideration given to existing utilities and infrastructure. We assume that the City or Contractor will be responsible for submitting the Request for Service letters and providing addresses for the power company and for new water meters. Comments and information received from utility companies shall be documented in the same manner as described in Task 1.4.

Task 1.6 Public Outreach Meetings (up to 2): LSD will attend and assist with up to two (2) public outreach meetings. The City will organize, provide all public notification and meeting materials, and facilitate each meeting. LSD will review the meeting materials, public notifications, and comment forms. LSD will prepare the supporting graphics (exhibits and illustrative plans) and attend the meetings to present the design concepts and answer questions. It is anticipated that there will be one (1) Public Open House Meeting shortly after project start-up and up to one (1) presentation of conceptual / schematic design prior to start of the Design Development (60%) phase.

Task 1.7 Stakeholder Meetings (1): LSD will attend a workshop with Tempe Public Schools/Aguilar Elementary School (Administrators, and student representatives), and separately with Tempe Parks personnel and other interested stakeholders, to receive input and feedback on connections to the school and the park, as well as street crossings, and public access to the project area during and after construction.

TASK 2: ENVIRONMENTAL CLEARANCE: LSD will conduct the environmental investigations and prepare the documentation to provide National Environmental Policy Act (NEPA) compliance and the geotechnical clearance for the project. A Group II Categorical Exclusion (CE) is anticipated to be the appropriate level of documentation for this project. *If a Condensed Clearance Memorandum (CCM) is all that is required we will reduce our scope and fee for this task accordingly, as approved by the City and accepted by ADOT.* No new ROW is anticipated, although temporary construction easements may be required for contractor staging during construction; we expect those to occur on City-owned streets. No easements are anticipated within adjacent, privately-owned lots.

Task 2.1 Public and Agency Scoping

Public and agency scoping will be conducted in accordance with ADOT Environmental Planning Group Guidelines for Scoping Environmental Determination and Categorical Exclusion National Environmental Policy Act Documents (April 2011). Public scoping will be accomplished through a public meeting (under Task 1.6); two additional public meetings are anticipated to coincide with the design process public meetings. One LSD environmental representative will attend each meeting. LSD assumes that the City will compile written and verbal comments from meeting attendees and provide them to LSD for use in the environmental document.

Agency scoping will be carried out through the distribution of letters. LSD will prepare and submit electronic versions of the draft agency scoping letters and a distribution list to the City for review and approval. The scoping letters will be prepared on City letterhead for City signature. ADOT will also have the opportunity to review the scoping letters. LSD will be responsible for the distribution of the approved scoping letters; no more



than 30 total scoping letters are anticipated to be mailed. LSD anticipates up to two responses will be prepared to respond to comments by the agencies. LSD will assist the City in the preparation of the draft response letters. LSD will distribute any response letters. *If a Condensed Clearance Memorandum (CCM) is all that is required we will reduce our scope and fee for this task accordingly, as approved by the City and accepted by ADOT.*

Task 2.2 Cultural Resources

As this project employs federal funds, administered through FHWA and ADOT, it will require compliance with Section 106 of the National Historic Preservation Act, which dictates the need for identification of National Register of Historic Places (NRHP)-eligible and listed properties, recommendation of project effect, and consultation with the State Historic Preservation Office (SHPO) and Native American Tribes.

Preliminary research indicates the project area has not been previously surveyed for cultural resources; however, the area has been completely developed within the last 30 years, and no historic-age buildings or structures are evident. LSD will conduct additional research using the ADOT Historic Preservation Team (HPT) portal; AZSITE, the Arizona State Museum's electronic cultural resources database; and at the State Historic Preservation Office (SHPO). Other background research may include the Maricopa County Assessor's webpage and Maricopa County Flood Control District historic aerial collection. The Bureau of Land Management General Land Office maps will be accessed electronically, as will the NRHP Information System.

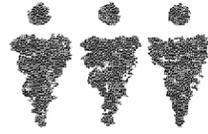
Because this is a developed urban area and the project area has a predominantly gravel surface, it is not anticipated that any historic properties will be identified through pedestrian survey. LSD assumes that no Class III survey will be required. LSD will prepare a Consultation Initiation Form and assist ADOT HPT with letters for Section 106 consultation; coordination with agencies and Arizona tribes, however, will be the responsibility of ADOT. This Scope of Work assumes that the project will proceed with a finding of "no historic properties affected." A contract modification to this Scope of Work will be required if a Class III cultural survey is necessary, or if a determination of "no historic properties affected" is no longer accurate.

Task 2.3 Biological Resources

A detailed Biological Evaluation (BE) is not anticipated to be necessary for this project based on the project location and limited scope of the project activities; therefore, ADOT's Urban Project BE Form will be completed for submittal to ADOT EPG. LSD will conduct an on-site reconnaissance-level survey of the project area; use the Arizona Game and Fish Department's On-line Environmental Review Tool and the USFWS's online resources; access GIS-based natural resource data to obtain current information regarding threatened, endangered, and sensitive (TES) and other species occurrence information in the project area; and document the absence of suitable or occupied habitat for TES species in the Urban Project BE Form. An electronic copy of the draft report will be provided to the City for review prior to submittal to ADOT EPG; following incorporation of review comments, an electronic copy of the final report will be provided ADOT to EPG for approval.

Task 2.4 Hazardous Materials

LSD will retain Terracon to prepare a Preliminary Initial Site Assessment (PISA) and a lead-based paint (LBP) survey (refer to attached Terracon Scope of Work). The PISA will consist of a records search and site visit to determine if hazardous materials concerns are located within the project area. The LBP survey report will be included as an appendix to the PISA. LSD will summarize the results of the PISA in the environmental document.



Task 2.5 Environmental Document

LSD will prepare a Group II CE checklist document and clearance memorandum for the project. The CE will be prepared in accordance with current ADOT EPG *Checklist Completion Guidelines (CE/ED)* dated February 2009. LSD anticipates a total of four electronic submittals to incorporate three rounds of comments from: (1) the City, (2) the ADOT EPG Planner, and (3) the ADOT EPG Planner III, as described below. *If a Condensed Clearance Memorandum (CCM) is all that is required we will reduce our scope and fee for this task accordingly, as approved by the City and accepted by ADOT.*

The draft CE will be submitted to the City for review. Following incorporation of comments from the City, the revised draft CE will be submitted to the ADOT EPG Planner for review. Comments from the ADOT EPG Planner will be incorporated prior to submittal of the revised draft CE to the ADOT EPG Planner III for review. The final CE and clearance memorandum will be submitted electronically to the City for review and signature, and then to the ADOT EPG Planner for review and approval. ADOT EPG will be responsible for coordination with the ADOT District on approval of the mitigation measures, as necessary. This project will receive federal funding, and LSD assumes, based on prior experience, that the ADOT EPG Planner will coordinate the FHWA review, as needed.

Task 2.6 Geotechnical Compliance

To allow the geotechnical work to proceed early in the project, LSD will review the geotechnical boring, potholing, and access plans (as provided by Terracon) and will complete:

- ADOT Geotech Compliance Form
- Cultural resources compliance – to be combined with the Consultation Initiation Form (Task 2.2, no separate documentation)
- Biological compliance – Geotechnical Investigation Biological Clearance Form
- Hazardous materials compliance – to be combined with the PISA (Task 2.4, no separate documentation)

In compliance with ADOT EPG's Geotechnical Clearance Process, LSD will coordinate with ADOT HPT, the ADOT Biologist, and ADOT's Hazardous Materials Coordinator, prior to submittal of the ADOT Geotechnical Compliance Forms to the ADOT EPG Planner.

Task 2.7 Project Coordination

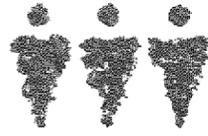
An LSD environmental representative will attend up to three project progress meetings at City offices. In addition, LSD will provide the City and ADOT with schedule updates and project coordination efforts over the course of the project.

TASK 3: PROGRAMMING and SCHEMATIC DESIGN(30%)

LSD will develop final Project programming and schematic design alternatives for review by the Client, stakeholders and public. Schematic Design will develop the general layout and grade of the trail, identify access requirements, develop the look and feel of the landscaping, and identify lighting and utility requirements. This task includes survey, geotechnical analysis, site analysis, drainage, opportunities and constraints, and conceptual design alternatives.

Task 3.1 Project Due Diligence: LSD will review the City's goals for the project, ADOT and federal requirements of the CMAQ grant and other City codes, requirements, and issues relevant to the Project. The outcome of the due diligence tasks will be to develop opportunities and constraints, and understand potential impacts to schedule and budget. These include:

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- **Site Analysis:** LSD will examine the physical conditions, access and environmental influences on the site, including adjacent land uses. A diagram will be prepared to graphically illustrate the site's opportunities and constraints for intended improvements given existing conditions.
- **Hydraulic Analysis and Drainage Report:** T.Y. Lin will complete an hydraulic analysis of the onsite watershed and use the rational method to estimate storm water runoff and 100-year retention volumes in accordance with the City's Engineering Design Criteria manual. Efforts will be made to limit storm water storage within basins to one foot or less to minimize the need for additional drainage infrastructure. Drainage basin design will take a Low Impact Development approach integrating storm water retention with landscape enhancements.

T.Y. Lin will prepare a Drainage Report to document the hydrology as well as the final improvement design in accordance with the City standards for report preparation. A preliminary drainage report will be prepared and submitted in conjunction with the 30% submittal. A final sealed drainage report will be submitted with the 90% documents.

- **Geotechnical Testing:** Terracon will be responsible for geotechnical engineering services which will consist of a preliminary initial site assessment and limited lead-based paint survey for environmental clearances, and geotechnical engineering services, including ten (10) test borings taken along the path alignment to help determine the structural characteristics of the existing soils. Borings will be drilled to a depth of five feet below existing ground surface. Two borings will be taken in proposed drainage areas to a depth of three (3) feet below existing ground surface and a percolation test performed to determine soil percolation rate. In addition, three (3) soil fertility and bio assay tests will be taken to determine the suitability of the soil to support plant growth.
- **Lighting and Electrical:** Wright Engineering will complete a site visit to determine the existing electrical power delivery options. They will coordinate design with the City, El Paso Gas, and the power company as required.
- **Topographic and Right of Way Survey:** Arizona Survey and Mapping will obtain field topographic survey information for the project area and produce a 1" = 20' scale base map for the project site showing one foot contour intervals. Field topographic survey information will be obtained within the project limits and at intersecting roadways and alleys. Cross sections will be taken at 100-foot intervals and will include a shot at the centerline of the alley and at north and south property line walls. Additional shots will be taken at locations of above ground utility appurtenances (manholes, valves, power poles, markers, etc.). The base map will also contain the researched right-of-way/easement information and the locations of existing utilities within the project area, based on record drawing information provided by the City and utility companies.

Task 3.2 Programming and Schematic Design Documents: Based on the information gathered from Task 3.1, the LSD Team will prepare Schematic Design Documents. The documents will include Site Analysis, Illustrative Design Plan, and a preliminary cost estimate for the trail project. It is anticipated that alternatives will be reviewed with the City's PM and the Project Team prior to Public Outreach meetings. LSD will not proceed with Design Development until the City approves the Schematic Design submittal.

- **Site Analysis Summary:** The Site Analysis diagram(s) will identify constraints and opportunities relative to the design of the trail and connections to the park, school, streets and neighborhood..



- **Design Alternatives:** LSD will prepare up to three alternative concepts for Client review. Based on review comments a preferred alternative will be selected. The preferred alternative will then be developed to 30% Schematic Design level and presented at a public meeting.
- **Project Assessment (15%) and Schematic Design (30%):** LSD will prepare drawings at 1" = 40' scale for the project area. Schematic Design Plans will include preliminary layout, grading, utilities and details as required to communicate the design approach sufficiently to gain public support, and to provide initial estimates of construction cost. 30% design will generally include:
 - Initial layout of trail and landscape elements
 - Preliminary grading and drainage design
 - Conceptual planting design
 - Initial irrigation tap locations and demand estimates
 - Initial lighting options
 - Initial traffic calming element concepts (speed humps, etc.) at cross streets
 - General information for the City's consideration of including crossing signals such as LED sidewalk flashers, and solar power alternatives for lighting and irrigation
- **Project Assessment (PA):** The 15% documents will be compiled into a Project Assessment scoping report in compliance with the "Project Assessment/Scoping Letter/DCR Guide" prepared by the ADOT Pre-Design Program Management Section dated January 28, 2002; Procedure Bulletins; and applicable Design Memorandums. The PA document is the standard scoping document used by ADOT and will assist their personnel to better understand proposed Project activities.
- **Illustrative Graphics:** The Final Programming and Schematic Design illustrative graphics will be developed as color renderings depicting the proposed site layout, interaction of the elements, and visual themes with a listing of the programming elements. The illustrative graphics will include rendered plans, elevations, and sections as required to show the proposed improvements for public presentation.
- **Preliminary Cost Estimate:** LSD will prepare an estimate of probable cost of construction for the project design elements. The components will be itemized and quantified with unit prices based on LSD and recent City project cost data.

TASK 4: DESIGN DEVELOPMENT (60%CDs)

The LSD Team will prepare design development and construction documents for public bid. Construction drawings will be prepared using AutoCAD release 13 or later and incorporate City standard details and specifications. The LSD Team will provide construction documents for the following design services:

- Landscape Architecture and Irrigation Design (Logan Simpson Design)
- Survey and Civil Engineering (TYLIN); (Survey by subconsultant Arizona Surveying and Mapping)
- Electrical Engineering (Wright Engineering)

4.1 Layout and Grading Plans: LSD will prepare preliminary construction documents based on the approved programming/schematic design layout and probable cost. The layout and grading plans will provide initial horizontal and vertical control for locating the trail, access routes, retention ponds, landscaping, lighting and amenities. The proposed materials and finishes will be identified on the plan, and LSD will provide preliminary installation details for landscape and utility components. Work will be coordinated with the Project Team and the plans will be supported by preliminary details and specifications.



4.2 Planting Plans: The landscape plans will identify the locations of all plant materials and inert groundcover for aesthetic treatments and dust control. The plan will include a plant schedule, materials schedule, and estimated quantities. LSD will provide installation details for all landscape components.

4.3 Civil Construction Documents: 60% plans and specifications will be developed incorporating comments received from City reviews. TY Lin will review grading and drainage plans for compliance with drainage and erosion control requirements. Grading revisions will be made as required to balance cut and fill on the site to the extent practical.

4.4 Lighting and Electrical: 60% plans will be developed based on the approved program. Wright Engineering will assist in the selection of pole mounted pathway lighting and provide for other project electrical needs.

4.5 Irrigation Construction Documents -The irrigation system will be connected to a potable water source to be located along one of the cross-streets included in the design of this project. The irrigation plans will identify all necessary piping and equipment required for a fully functioning drip irrigation system.

4.6 Estimate of Probable Construction Cost -LSD will update the estimate of probable construction cost at the 60% level.

TASK 5: CONSTRUCTION DOCUMENTS (90%, & Final Bid-Ready/Permit CDs)

The LSD Team will prepare detailed design and construction documents sufficient for bidding and construction. The Construction Documents will include plans (drawn in AutoCAD 2013), and technical specifications (detail sections only, in MS Word format).

The Construction Documents will be developed in accordance with the City's Standards, and comply with building codes and standards such as IBC, The Americans with Disabilities Act (ADA), Crime Prevention Through Environmental Design (CPTED), AASHTO, MUTCD and ASTM.

LSD will furnish copies of the Final Construction Documents for bidding and construction including one (1) full-size set of plans, and five (5) half size sets on bond paper, along with specifications and a cost estimate for the bid release. The City will provide additional printing and reproduction of the drawings and documents as required. LSD will provide final contract documents in electronic format if requested.

5.1 Layout and Grading Construction Documents: LSD will prepare construction documents based on the approved 60% design layout and city comments. The layout and grading plans will utilize horizontal and vertical control coordinate points for staking the location of the trail, grading features, landscaping, lighting and site furnishings. The materials, finishes and installation details for landscape elements will be identified on the plans and specifications.

5.2 Landscape Construction Documents: The landscape planting plans will identify the locations of all plant materials such as trees shrubs and groundcover plantings, as well as inert groundcover for aesthetics and dust control. The plan will include a plant schedule, materials tables, and estimated quantities. LSD will provide installation details for all landscape components.

5.3 Civil Construction Documents: 90% and final plans and specifications will be reviewed by the Civil Engineer and plans will be revised to incorporate their comments as well as those received from the City.



5.4 Lighting and Electrical: 90% and final plans and specifications will be developed incorporating comments received.

5.5 Estimate of Probable Construction Cost -LSD will update the estimate of probable construction cost at the 90% level.

5.6 Irrigation Construction Documents -LSD will prepare a hard-piped irrigation design based on the final landscape plan. The irrigation system (water meter, backflow device, valves, etc.) will be sized and the irrigation piping will be broken down by quantity and size. LSD will provide installation details for all irrigation components.

5.7 Final Construction Documents -LSD will address City comments received on the 90% plans, specifications and cost estimate, and will submit signed/sealed (by an Arizona licensed Landscape Architect) versions of the final PS&E set. Plans and Specifications shall be provided in the standard City format or as otherwise requested to be incorporated into the overall Construction Documents package. It is understood that the front end, general conditions and Division 1 specifications will be prepared by the City.

Final Deliverables to the City: LSD will furnish:

- One (5) copy 11"x 17" half-size scalable, one (1) copy full size, and one (1) copy combined PDF plan sets.
- One (1) Mylar copy of 100% plans. (The 100% plans will be on 24"x 36" 3 mil Mylar with enlarged border.) For plan set, we will provide TIFF's at 300 DPI that were not converted from a PDF file.
- Two (2) copies of each of the following:
 - Special Provisions
 - Opinion of Probable Costs.

FEE:

LSD proposes to complete the work in Section I for an Hourly, Not to Exceed Fee as detailed below. Subconsultant fees and direct reimbursable expenses (printing, mileage, and deliveries) are included in the fee proposal. Our Standard Hourly Rates will be provided upon request.

| Section I – Design and Environmental Clearances Phase | | |
|--|-------------|---------------------|
| Task 1.0 Project Management | \$11,558.00 | |
| Task 2.0 Environmental Clearance | \$25,465.00 | |
| Task 3.0 Programming/Schematic Design | \$18,476.00 | |
| Task 4.0 Design Development | \$22,114.00 | |
| Task 5.0 Construction Documents | \$18,913.00 | |
| Subconsultants and Expenses: | | |
| TY LIN Civil Engineer | \$35,089.00 | |
| Wright Electrical Engineer | \$5,175.00 | |
| Terracon Geotech and Testing | \$7,206.00 | |
| | | |
| Direct Reimbursable Expenses | \$1,200.00 | |
| | | |
| TOTAL FEE AND EXPENSES | | \$145,196.00 |



ASSUMPTIONS/EXCLUSIONS:

The following items/tasks are excluded from this Scope of Work.

1. The schedule for the Project is not fully under the control of LSD and/or the City. Multiple factors such as the length of time required to obtain the community's acceptance of the proposed improvements, the workload of ADOT EPG and/or Right-of-Way, or utility clearance by El Paso or ADOT's Utilities and Rail Road Section will determine the ultimate schedule for completion. Typically, the substantive production of a CE or CCM cannot begin until the PA is accepted by ADOT which is why reaching an early acceptance of the improvements by the community (and conducting the public outreach meetings as soon as possible) is critical to the expedited development of the PA. In this case, due to the relative simplicity of the proposed work, LSD will attempt to have ADOT EPG allow the CE production to proceed with only a schematic project description prior to the PA development. Further, final design work cannot proceed past 60% without the CE having been approved by ADOT EPG - this condition again reinforces the need to quickly conduct the public outreach so that the PA can and the CE initiated. Soon after the Notice to Proceed, LSD will meet with the City and the ADOT PM to strategize and clarify how these interrelated elements can be completed in such a way to allow the project to be completed within the preliminary schedule proposed herein.
2. No sole source aquifer coordination with the US Environmental Protection Agency, Jurisdictional Delineation, Section 404 pre-construction notice, Section 7 formal consultation with the US Fish and Wildlife Service (USFWS), species-specific surveys, individual Section 4(f) analysis, separate visual analyses technical report, visual simulations, wild and scenic river coordination, testing for asbestos-containing materials, or quantitative noise or air analyses are included in this Scope of Work. In addition, this Scope of Work does not include a Class III cultural resources survey, flagging for site avoidance, evaluation of the built environment, preparation of agreement documents, or archaeological testing and/or data recovery.
3. If, at any time, FHWA or the Arizona Department of Transportation (ADOT) determines that an Environmental Assessment (EA) or Environmental Impact Statement (EIS) is required, LSD reserves the right to submit a contract modification to this Scope of Work if such additional environmental work requires a level of effort greater than identified herein.
4. A Phase 1 Environmental Site Assessment, traffic impact study, and on- and off-site utility pot-holing are not included as part of this Scope of Services.
5. Redesign for replacement of existing school driveway at South Forest Avenue.
6. Redesign of Project area streets and associated utilities. TY Lin will identify the location of existing catch basins within the streets, but analysis required to determine flows reaching these catch basins and/or relocation of the basins is excluded from the work.
7. Coordination of and/or conducting Materials Testing and Special Inspections during construction.

