

February 7, 2023

San Luis Department of Public Works
1090 E. Union Street
San Luis, Arizona 85349

Attention: Mr. Manuel Hernandez, Public Works Project Manager
**Reference: Engineering Consulting Services for
County 22nd Street & 4th Avenue Intersection**

Dear Mr. Hernandez,

Nicklaus Engineering, Inc. (Nicklaus) appreciates the opportunity to submit our formal proposal for the above-referenced project. It is our understanding that the City of San Luis plans to improve the intersection of County 22nd Street & 4th Avenue, including developing signalization, constructing eastbound dual right turn lanes, and constructing northbound dual left turn lanes.

Our services will include the following:

TASK 1.0: PROJECT MANAGEMENT

Our services for Task 1.0 will include the following:

- Coordination with the City of San Luis Project Manager
- Project Management during Pre-Design Phase, Design Phase, Bidding Phase, and Post Construction Phase.

TASK 2.0: PRE-DESIGN PHASE

Our services for Task 2.0 will include the following:

- Meet with the City of San Luis and other stakeholders to prepare a detailed design schedule.
- Participate in a general Project kick-off meeting.
- Review and comment on Project kick-off meeting minutes.

TASK 2.1 TOPOGRAPHIC SURVEY

Our services for Task 2.1 will include the following:

- Survey of existing Right-of-Way (ROW) and area anticipated for road widening. It is anticipated that the survey will be to supplement the current topographic data.
- Survey of existing striping and signing.
- Survey everything near the surface of the roadway, including survey markers/pins, manholes, water valves, catch basins, etc.
- Survey to include anything important outside the ROW pertinent to the project.
- Survey of existing utilities.
- Delivery of Topographic Survey in City of San Luis CAD Criteria format.

Survey Notes and Exclusions:

- The proposal does not include a boundary survey and/or the setting of survey monuments for the preparation and filing of a Record of Survey for the project site.
- The location of utilities is to be those observed or marked on plans supplied by the City of San Luis. No location of underground lines by a private utility location service is included in this proposal. Note that 811 utility location services typically only locate and mark underground utilities during the construction phase.
- This proposal excludes all fees charged by other entities, if any, that may be required in conjunction with the work, including but not limited to title company fees and city and county fees, if any.

TASK 2.2 GEOTECHNICAL INVESTIGATION

Our services for Task 2.1 will include the following:

Our proposed fee is based on the site being open and accessible to our drill rig. We will employ a truck-mounted drill rig with a two (2) man crew and a staff engineer/geologist to collect and log soil samples. We will advance up to the following boreholes, three (3) 15-foot-deep borings along the shoulder of the existing pavement.

Drilling operations will be to the depths or until refusal. It is not anticipated drilling will occur past groundwater. Soil samples will be collected at approximately 5-foot intervals using either a Standard Penetration Test (SPT) sampler or a Modified California sampler. Bulk samples will be collected from the upper 5 feet from select borehole locations. Cuttings will be used as backfill material. It is assumed that the material can be drilled using standard hollow stem auger drilling equipment. It is also assumed that no rock coring, asphalt coring, or concrete coring will be required.

We anticipate that laboratory testing will include moisture content, dry density, grain size distribution, Atterberg Limits, and corrosivity test. We will prepare an assessment report with geotechnical recommendations for the design and construction of the proposed project. We will provide geotechnical engineering services that will primarily include:

- Preparation of final report summarizing the results of the geotechnical investigation with recommendations
- Recommendations for earthwork and site grading
- Flexible pavement design based on local City of San Luis standards
- Estimated depth to groundwater
- Recommendations for earthwork construction testing methods
- Seismic soil class for the site per local building code

Geotechnical assumptions include:

- Our fee does not include Permit Fees.
- The fee does not include a liquefaction study, nor will mitigation measures be discussed. Should liquefaction be a concern at the site, a separate proposal may be submitted upon request.
- Before digging operations, it will be necessary for the City of San Luis to provide Nicklaus with utility information. This proposal does not include any potholing or similar type of utility locating services. Should

any utility be damaged or disrupted during Nicklaus digging operations, Nicklaus, nor its subcontractors, will not be held responsible for repair or claims resulting from such damage or disruption.

- Pricing does not include any services, materials, or alternate drilling methods not specifically described in this proposal.
- Should standby time caused by others be encountered, costs in addition to those in this proposal may be incurred.
- Nicklaus will not be responsible for damage to landscapes, flatwork, or structures, caused by equipment movement or drilling operations unless such damage is caused by its employee's negligence or willful misconduct.
- Nicklaus will not be responsible for providing traffic control.
- The fee is based on the availability of Nicklaus owned and operated drill rig. Delays caused by unforeseen maintenance operations may add to the delivery time of the report.

TASK 3.0: DESIGN PHASE

Our services for Task 3.0 will include a 30% (Initial) submittal, a 60% (Preliminary) submittal, a 95% (Final) submittal, and a 100% (PS&E) submittal. Services for the Site Design Package will include:

- Coordination with appropriate agencies and utilities.
- Preparation of Utility Supplemental Provisions.
- Reproducible bid schedule necessary to bid and construct the improvements.
- Electronic versions of all plan sheets, technical specifications, supplementary conditions, cross sections, and bid schedule in AutoCAD (plan sheets and cross sections) and PDF (all documents) formats on a USB drive.

30% (Initial) Design Submittal

- Final roadway geometry and preliminary roadway plan and profile sheets
- Typical roadway sections
- Location of existing utilities
- Graphic layout of proposed pavement markings and traffic signal
- Initial roadway cross sections at one hundred (100) ft. intervals
- Final survey information
- Initial summary of quantities
- Listing of Technical Specifications and/or Supplementary Conditions anticipated
- Estimate of probable construction cost

60% (Preliminary) Design Submittal

- Preliminary design sheet(s) with sheet index, general notes, and summary sheets
- Pre-final roadway plan and profile sheets
- Final typical roadway sections
- Preliminary pavement marking plans and traffic signal plans.
- Preliminary roadway cross sections at one hundred (100) ft. intervals
- Preliminary summary of quantities
- Draft Technical Specifications and Supplementary Conditions
- Preliminary Bid Schedule

- Estimate of probable construction cost

95% (Final) Design Submittal

- Design sheet(s) with sheet index and general notes
- Summary sheets
- Typical roadway sections
- Roadway plan and profile sheets
- Signing, pavement marking plans, and traffic signal plans.
- Roadway cross-sections
- Final summary of quantities
- Final design calculations
- Final Technical Specifications
- Final Supplementary Conditions
- Final Bid Schedule
- Estimate of probable construction cost

100% (PS&E) Submittal

- Reproducible set of sealed and signed plans.
- Reproducible set of sealed and signed technical specifications and supplementary conditions.
- Final and complete quantity summaries.
- Final estimate of probable construction cost.

Civil Design assumptions and exclusions include:

- Should offsite improvements be required beyond those specifically identified in this proposal, we can provide those services under a contract modification.
- Nicklaus will not evaluate existing utilities nor design any new utilities.
- It is assumed that traffic control plans are not required.
- It is assumed no ADA ramps are required.
- Services do not include evaluation nor improvements to existing offset drainage conditions. It is expected drainage from the roadway improvements will be retained in the drainage swales along the shoulder. All calculations for drainage will be roadway runoff. Offsite is defined as areas outside of the proposed improvements.
- It is assumed no landscaping nor curb and gutter.

TASK 4.0 BIDDING ASSISTANCE

Our services for Task 4.0 will consist of the following:

- Prepare the Pre-Bid meeting agenda and attend Pre-Bid
- RFI response through bid addendums
- Attend Bid Opening and prepare the Bid Tab.
- Provide the award recommendation.

TASK 5.0 CONSTRUCTION ADMINISTRATION

The below Task 5.0 scope of work for Construction Administration is based on our phone conversation on February 7, 2023. We understand our scope of work to be as follows:

- Limited, periodic onsite inspections for no more than 60 working days (12 weeks).
- The Construction Inspector will be onsite during construction activities. It is assumed the Inspector will be onsite for no more than 2 hours per site visit, including travel time. One hour per site visit is assumed for the site visit report.
- Pre-construction will include a thorough review of all construction documentation, coordination with the City of San Luis, and attendance of the pre-construction meeting by the Inspector. It is assumed that the City of San Luis will provide the pre-construction meeting agenda and minutes.
- Review of payment applications, change orders (assumed no more than 3), RFI's (assumed no more than 3), and submittals.
- Pre-final and final inspections. Development of a pre-final inspection punch list.
- Post-construction services will include a redlined set of construction plans for the creation of As-Built plans by Nicklaus Engineering.

If you have any questions regarding this proposal, please feel free to give me a call at (928) 246-1616 (cell).

Best regards,
Nicklaus Engineering, Inc.



Antonio Alvarez, P.E.
Vice President



DATE OF PROPOSAL: 1/25/2023

PROJECT:		Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7	Totals								
LOCATION:		Pre-Design Phase & Engineering Programming	Initial Design	Preliminary Design	Final Design	Plans, Specifications & Estimate	Bid Phase	Construction Administration Services									
Intersection Improvements. Eastbound double right turn, and northbound double left																	
County 22nd Street and 4th Avenue																	
PART I - Direct Services																	
LABOR CATEGORY	RATE	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST		
Principal Engineer	\$211.00	2	\$422	2	\$422	2	\$422	2	\$422	2	\$422	6	\$1,266	0	\$0	16	\$3,376
Senior Engineer	\$170.00	3	\$510	11	\$1,870	11	\$1,870	8	\$1,360	4	\$680	0	\$0	0	\$0	37	\$6,290
Project Engineer	\$128.00	0	\$0	26	\$3,328	20	\$2,560	22	\$2,816	12	\$1,536	2	\$256	78	\$9,984	160	\$20,480
Senior Engineering Designer	\$116.00	3	\$348	21	\$2,436	35	\$4,060	14	\$1,624	0	\$0	0	\$0	0	\$0	73	\$8,468
Engineering Designer	\$104.00	0	\$0	5	\$520	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	5	\$520
Engineering Technician - III	\$82.00	0	\$0	25	\$2,050	22	\$1,804	13	\$1,066	0	\$0	0	\$0	0	\$0	60	\$4,920
Engineering Technician - II	\$79.00	0	\$0	33	\$2,607	30	\$2,370	14	\$1,106	2	\$158	0	\$0	8	\$632	87	\$6,873
Sub Total Direct Labor		8	\$1,280	123	\$13,233	120	\$13,086	73	\$8,394	20	\$2,796	18	\$2,622	293	\$33,386	655	\$74,797
Profit 0.00%			\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
Total Direct Labor & Profit			\$1,280		\$13,233		\$13,086		\$8,394		\$2,796		\$2,622		\$33,386		\$74,797
Other Direct Costs																	
Equipment and Materials	Drill Rig		\$0		\$990		\$0		\$0		\$0		\$0		\$0		\$990
Reproduction	Nicklaus		\$0		\$75		\$83		\$121		\$95		\$3		\$0		\$377
Laboratory	Nicklaus Geotechnical		\$0		\$750		\$0		\$0		\$0		\$0		\$0		\$750
Sub Contractors																	
Topographic Survey	Desert Surveying		\$0		\$3,000		\$0		\$0		\$0		\$0		\$0		\$3,000
Sub Total ODCs and Sub Contractors			\$0		\$4,815		\$83		\$121		\$95		\$3		\$0		\$5,117
G&A 6.79%			\$0		\$327		\$6		\$8		\$6		\$0		\$0		\$347
Profit 10.00%			\$0		\$514		\$9		\$13		\$10		\$0		\$0		\$546
Total ODCs and Sub Contractors			\$0		\$5,656		\$98		\$142		\$112		\$3		\$0		\$6,011
Travel			\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
Grand Total			\$1,280		\$18,889		\$13,184		\$8,536		\$2,908		\$2,625		\$33,386		\$80,808