

SCHNEIDER ENGINEERING, LTD.



PROPOSAL
UPGRADE BO-30 DISTRIBUTION CIRCUIT
ESSER ROAD ELECTRICAL FEEDER PROJECT

PREPARED FOR
CITY OF BOERNE

NOVEMBER 12, 2018

CLIENT: City of Boerne
PROJECT: Upgrade BO-30 Distribution Circuit

The Schneider Engineering (SE) team is pleased to present this Proposal to provide Engineering Services to upgrade BO-30 Distribution Circuit.

SCOPE OF WORK:

To design a new distribution feeder exit route for circuit BO-30 from Boerne Substation to Adler Road, connect to the existing feeder and reconductor the existing overhead distribution circuit east along Adler Road and then south along Esser Road to the Old Number 9 Greenway. The circuit design will upgrade the existing overhead conductor to 336 MCM ACSR.

Our estimate for the services as detailed below is **\$72,500**. Based on an initial review of the project scope, the construction cost for the new feeder exit and upgrade of the existing distribution line is approximately **\$375,000**. The construction cost may vary depending on the feeder exit route and type of construction (overhead, underground or a combination), and assumes 20% pole replacement.

Scope of Basic Services:

- Field survey of existing facilities to:
 - Prepare list of construction units required to make existing line ready for upgrade to 336 ACSR.
 - Verify existing structure and guying strength.
 - Profile existing and proposed conductor clearances.
 - Evaluate existing structures to meet new loading parameters.
 - Stake structures for reference to design drawings.
- Engineering Design:
 - Preparation of plan and profile drawings showing proposed route.
 - Preparation of TXDOT permit exhibit, application to be submitted by the City.
 - Preparation of staking sheets detailing existing and required units on each pole along with retirement units.
 - Stringing Charts
 - Construction Unit Drawings and Material Specifications.
 - Project Bill of Material.
- Bidding and Contracting Support to include:
 - Participation in Pre-Bid meeting.
 - Respond to Q&A and Prepare Addenda
 - Bid Evaluation and Recommendation
 - Preparation of a detailed estimate of cost for construction.
- Construction Support to include:
 - Participation in Pre-Construction meeting.
 - Contractor Submittal Review including review of Traffic Control Plan.
 - Contractor Invoice Review
 - Have staff available during construction to respond to Contractor questions and/or RFI's.

- Construction Inspection including day to day and final walk-thru as authorized by the City of Boerne. (Budgeted at 8 hours of inspection time per week)
- Review change order requests and make recommendations.
- Daily construction inspections to be performed by City of Boerne personnel.
- Prepare Record Drawings
- SE scope of work does not include:
 - Right of Way clearing for surveying. Right of way clearing for construction will be included in Contractor's proposal.
 - Re-route of existing line or any new line sections or tie-lines.
 - Easement acquisition.
 - Survey of underground facilities beyond noting above ground markers.
 - Self-supporting structures
 - Bidding/Contracting except as noted above

PROJECT COST:

The engineering services estimate of **\$72,500** is based on the Scope of Basic Services detailed above and itemized in the table below:

TASK	MAN-HOURS	DURATION	COST
Project Management	34		\$ 3,845
Field Survey (two-man crew)	188	Three Weeks	\$ 20,520
Engineering	219	Four Weeks	\$ 28,080
Bidding and Contracting	62	Four Weeks	\$ 7,465
Construction Support	82	Approx. 8-10 weeks	\$ 12,590

DELIVERABLES:

As a minimum the following shall be supplied by SE:

- 30% Plan View drawing for review by the City.
- 90% Review/Bid Package including Plan and Profile, Staking Sheets, Bill of Material, TXDOT permit Exhibit and Specifications.
- 100% Construction Package including Plan and Profile, Staking Sheets, Bill of Material, TXDOT Permit Exhibit and Specifications.
- Bidding/Contract documents including General Conditions and Specifications, and Traffic Control Plan.
- Documents will be provided in electronic PDF format as well as hardcopies.

Schneider Engineering's periodic compensation to perform the scope of work above will be an hourly cost in accordance with the Engineering Services Contract between the City of Boerne and Schneider Engineering, Ltd., dated March 2005, not to exceed **\$72,500**.

My signature below is my approval of this proposal for Schneider Engineering to complete the Scope of Work for the terms listed above.

Submitted: 
J. Nakee Laws P.E., Vice President

Date: 11/12/2018

Your signature below will serve as authorization for Schneider Engineering to commence work on this project. Please let us know if you have any questions or require anything further.

Approval: _____

Date: _____

The Owner shall pay the Engineer for services performed under this Agreement as follows:

POSITION	HOURLY RATE
Engineer VIII / President	\$200.00
Engineer VIII / Principal	\$185.00
Engineer VII / Senior Consultant IV	\$170.00
Engineer VI	\$155.00
Engineer V	\$140.00
Engineer IV	\$125.00
Engineer III	\$110.00
Engineer II	\$100.00
Engineer I	\$85.00
Project Manager III / Senior Consultant III	\$155.00
Project Manager II / Senior Consultant II	\$140.00
Project Manager I / Senior Consultant I	\$125.00
Project Analyst IV	\$120.00
Project Analyst III	\$105.00
Project Analyst II	\$90.00
Project Analyst I	\$75.00
Technician V	\$115.00
Technician IV / Designer III	\$105.00
Technician III / Designer II	\$95.00
Technician II / Designer I	\$85.00
Technician I	\$75.00
Technician Assistant	\$60.00
Administrative Staff	\$65.00
Administrative Assistant	\$55.00
Clerical	\$50.00

PERSONNEL OVERTIME CHARGES

Hourly personnel overtime work will be invoiced at the base billing rate plus a multiplier of 1.5 times the employee hourly rate.

REIMBURSABLE EXPENSES

- Mileage Reimbursement: \$0.57/mile for cars, \$0.75/mile for trucks, \$0.85/mile for fully equipped off-road survey trucks
- The following will be billed at cost plus 12%:
 - Copying costs
 - Transportation, subsistence and lodging
 - Approved sub-contract services