



October 31, 2014

Joshua Plumb
City of Maricopa
39700 W. Civic Center Plaza
Maricopa, AZ 85138

RE: Edison Road Final Design
Request for Contract Modification – SR 238 Sanitary Sewer Extension

Dear Joshua,

EPS Group Inc. is submitting the attached scope of work for an additional design element that has been added to the Edison Road Final Design project. This request is for the extension of the 36" diameter sewer for approximately 2000' along SR 238 between Roosevelt Avenue and Edison Road.

During the course of the design, it was determined that the site could not be adequately served by the existing 12' diameter sewer in Edison Road near the new fire station. In meetings with Global Water, it was determined that the 36" sewer line that currently ends just west of Roosevelt Avenue could be extended to Edison in order to serve the site. The City has decided that this approach is best for the project and that this sewer line will be included with the scope. As this sewer line will be in ADOT's right-of-way, traffic control plans and permitting will be required.

The hours reflected for the scope items included are expected to be commensurate with the effort that will be expended for these tasks. We have provided a fee estimation breakdown.

Please do not hesitate to contact us with any questions regarding the additional work items identified.

Sincerely,
EPS Group Inc.,

A handwritten signature in black ink that reads 'Elijah E. Williams'.

Elijah E. Williams, PE
Project Manager



Fee Estimation Worksheet

Date: 10-31-14
Job No.: 13-137.3

PROJECT: Contract Modification - Edison Road Design: SR 238 36" Sewer Extension

DESCRIPTION	Principal	Project Manager	Project Engineer	Design Technician	CAD Technician	Clerical	Landscape Architect	Senior Landscape Designer	Landscape Designer	Survey 2-man	Project Surveyor	Survey Tech	Task Cost
Additional Topographic Survey										15	1	6	\$2,823.00
60% Plans		2	12	18	30								\$6,210.00
95% Plans		2	12	16	25								\$5,595.00
100% Plans		1	4	8	12								\$2,485.00
ADOT Traffic Control Plans			16		32								\$4,880.00
Design Quantities & Cost Estimates (60%, 95%, 100%)		1	6	10									\$1,925.00
Project Coordination & Permit Applications w/Client, Utilities,		8	16										\$3,480.00
TOTAL HOURS	0	14	66	52	99	0	0	0	0	15	1	6	253
SUBTOTAL FEES	\$0.00	\$2,310.00	\$8,910.00	\$4,940.00	\$8,415.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,100.00	\$135.00	\$588.00	\$27,398.00

Contract Expenses \$416.00

Subconsultants
\$0.00

TOTAL FIXED FEE \$27,814.00

Allowances
Potholing (up to 8 holes) \$6,850.00

TOTAL FIXED FEE w/ Allowances \$34,664.00

**Reimbursables
City of Maricopa
Edison Road - SR 238 Sewer Extension**

Data Collection - Prints, etc.	\$80.00
60% Plans Submittal	
(10 Sheets) 16 each @ \$0.20/sheet (1/2 size)	\$32.00
(10 Sheets) 3 each @ \$1.00/sheet (full size)	\$30.00
90% Submittal	
(10 Sheets) 16 each @ \$0.20/sheet (1/2 size)	\$32.00
(10 Sheets) 3 each @ \$1.00/sheet (full size)	\$30.00
100% Submittal	
(10 Sheets) 16 each @ \$0.20/sheet (1/2 size)	\$32.00
(10 Sheets) 3 each @ \$1.00/sheet (full size)	\$30.00
Bid Plan Set	
(10 Sheets) 1 each @ \$15/sheet (Mylar)	\$150.00
Total Reimbursables	\$416.00

Remibursables do not include reproduction of Plans & Bid Documents for bidding purposes.

October 31, 2014



Elijah Williams, PE
Vice President
EPS Group, Inc.
2045 South Vineyard Avenue, Suite 101
Mesa, Arizona 85210

Cardno

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Scottsdale, AZ 85257
USA
Phone 602-749-8550
Fax 602-749-8551
Email
Dan.Padilla@Cardno.com

Re: Proposal for Utility Locating Services
AZ State Route 238 West of Roosevelt Ave., City of Maricopa

www.Cardno.com

Dear Mr. Williams:

Cardno (formerly TBE Group, Inc. d/b/a Cardno TBE) is pleased to submit this proposal to provide professional Subsurface Utility Locating services for the above referenced project to EPS Group, Inc. (Client). Per our email conversations on October 28, 201 and October 30, 2014, Cardno will provide vacuum excavation potholes (testholes) on existing underground utilities at eight (8) locations yet to be determined along the shoulder of AZ State Route 238, west of Roosevelt Ave. in the City of Maricopa. As discussed it is anticipated that up to three of the requested potholes may be located in existing paved roadway and possibly on ADOT SR 238. Cardno will provide field survey to initially stake the pothole locations with P.K. nail in pavement or steel pin in natural ground marked with pothole number in white paint on pavement or on lath with white flagging off pavement. Cardno will utilize the surveyed locations for Blue Stake notification/coordination and as a reference point for each pothole. After exposing the utility, Cardno will measure and record adjustments from the surveyed locations to the reference pin set by Cardno above the centerline of each utility exposed. Potholes with large adjustments with respect to the initial surveyed location may require additional survey. Pertinent pothole data will be presented in spreadsheet format on our standard "Testhole Data Summary" form, sealed and signed by an Arizona Registered Land Surveyor or Professional Engineer, which includes the depth, surveyed horizontal and vertical location, size, and material composition of the utility line exposed. Prior to beginning work, Cardno requests a pothole request list identifying the pothole number, horizontal location in coordinate format, and the type of utility to be potholed along with 11" x 17" plan sheets displaying background topography, existing utilities, and pothole locations clearly marked and annotated with the corresponding pothole number. Also prior to beginning work, Cardno requests horizontal and vertical survey control signed and sealed by an Arizona Registered Land Surveyor that is adequate to stake the pothole locations utilizing RTK GPS technology.

For the estimated eight (8) potholes Cardno proposes compensation at a unit rate of **\$535.00** each which includes survey, project management, Blue Stake coordination, air-vacuum excavation, our standard compacted native soil backfill, pavement restoration with "permanent" cold patch procedures for potholes located in paved roadway, and data delivery of a "Testhole Data Summary" in scanned electronic format. This price covers potholes up to a maximum depth of 8 feet. If the depth of a pothole exceeds 8 feet, a surcharge of **\$45.00** per foot of depth over 8 feet will be added to the price of said pothole. Potholes excavated on Blue Stake marks for untraceable utilities that do not result in our finding the utility will be considered a dry hole and invoiced at the **\$535.00** unit price. Additional potholes, if required, can be added to the project at the **\$535.00** unit price but must be requested in groups of four or more if original survey has already been conducted. Pothole locations surveyed but not excavated due to Blue Stake "No Conflicts", inaccessibility issues and/or any other unforeseen

circumstance which prohibits excavation will be invoiced at **\$90.00** per location/occurrence. It is assumed that ADOT will require that the three potholes requested on paved roadway surfaces be backfilled with ½ sack concrete slurry (CLSM) and asphalt hot patch pavement replacement be used for pavement surface restoration. Temporary traffic control and traffic permit fees, slurry backfill, hot patch asphalt replacement, and off duty police officers will be subcontracted and invoiced at cost. **For the estimated eight (8) requested potholes please budget \$6,850.00**, which includes a contingency allowance of \$2,570.00 for permit fees, temporary traffic control, concrete slurry backfill, hot patch asphalt pavement replacement, off duty police officers, and extra depth surcharges, if needed. An invoice will be prepared upon completion for the actual work completed up to the estimated budget amount.

Please allow fifteen (15) business days from notice to proceed and receipt of necessary permits to provide the final deliverable. Cardno appreciates this opportunity to be of service. Should you have any questions or require additional information, please do not hesitate to call.

Sincerely,



Dan Padilla
Senior Project Manager