



January 6, 2014

Mr. Josh Malwick
Capital Projects Engineer
City of Norman
201 West Gray, Bldg A
Norman, Oklahoma 73069

RE: Contract No. K-1213-161 Proposal to perform additional design services for revised preliminary plans for 12th Avenue SE and SH 9 in Norman, Oklahoma.

Dear Mr. Malwick:

Tetra Tech, Inc. (Tetra Tech) is pleased to provide this proposal in response to your request for revisions to the preliminary plans for the 12th Avenue SE project south of SH 9 in Norman, Oklahoma. This proposal includes our proposed scope of work and cost to perform these additional services. Our cost for this additional work is \$24,420.00 for these revisions on both 12th Avenue SE and on SH 9.

Please contact me at (405) 416-2049 if you have any questions regarding this proposal or need assistance with any other matter.

Respectfully Submitted,

TETRA TECH

A handwritten signature in blue ink that reads 'Jonathan Heusel'.

Jonathan Heusel, P.E.

Attachment: Cost Proposal Breakdown

Contract No. K-1213-161

1.0 TECHNICAL AND MANAGEMENT APPROACH

Tetra Tech will perform modifications to the preliminary plans and preliminary engineering report that include redesign of drainage, the configuration of the intersection, the extension of the SH 9 right turn lane (EB to SB) and the addition of a left turn lane (WB to SB) on SH 9.

1.1 Project Schedule

Tetra Tech has initiated the survey as directed and will initiate the modifications to design immediately following the contract award. The revised preliminary plans can be provided two (2) weeks from the notice to proceed.

1.2 Proposed scope of work

The scope of the proposed work includes the following activities:

Scope of work for 7-lane configuration

The intersection will be modified to a seven lane configuration south of the SH 9 intersection to accommodate future traffic volumes as described in the traffic study and analysis. Tetra Tech has identified the changes necessary for the redesign of the intersection for the configuration of 12th Ave SE north of STA 107+00. We have reviewed the possible layouts for a 7-lane facility and a new turn lane on SH 9. The additional design and CADD work for these modifications include the following:

- 12th Avenue SE will have seven (7) lanes south of SH-9 intersection compared to 4 lanes identified in the original agreement.
- Additional Typical Sections for SH 9 will have to be developed and existing Typical Sections will have to be revised.
- Westbound SH- 9 will have one additional left turn lane in the existing median as shown in TEC's draft intersection traffic layout.
- Additional work in the intersection of SH 9/ 12th Avenue SE intersection will be more involved because of lane additions, geometric layouts, storm drain impacts and the two median noses will be further apart.
- An additional P&P sheet with striping and details will be needed for the SH 9 revisions.
- One traffic island (SW corner) will be designed at the intersection.
- Utilities will have to be relocated on both sides of 12th Avenue SE as compared to only one side as previously thought.
- Drainage structures across 12th Avenue will have to be longer and will have to be redesigned.
- Storm sewer inlets and trunk line will have to be redesigned throughout the project length.

- Campus Crest drive will be wider with three lanes and will have to be modified in the plans.
- Additional right of way will be necessary on the west side as well as the east side.
- Modifications to all of the cross sections and right of way will be necessary.

1.3 Cost Estimate

The build-up for the cost estimate is provided as an attachment. All aspects of the additional efforts to the existing sheets and the new sheets to be created, as described above, are included in the cost proposal.

IN WITNESS WHEREOF. OWNER and CONSULTANT have executed this Amendment.

DATED this _____ day of _____, 20____.

The City of Norman
(OWNER)

Tetra Tech Inc.
(CONSULTANT)

Signature _____

Signature William Brownlie

Name _____

Name William R. Brownlie

Title _____

Title Senior Vice President

Date _____

Date 2.6.14

ATTEST:

ATTEST:

Secretary

Janis B. Soler
Secretary



Seal

Seal

APPROVED as to form and legality this _____ day of _____, 20____

City Attorney

Attachment
Cost Proposal Breakdown



<div style="display: flex; justify-content: space-between;"> <div> <h2>Price Proposal</h2> <h3>12th Avenue SE - Supplemental</h3> <p>12th Avenue SE - SH 9 to Cedar Lane Road Submitted to: City of Norman (Attn: Josh Malwick)</p> <p>Contract Type: Fixed Price</p> </div> <div> <p>Revision Date: Jan 6, 2014</p> </div> </div>										Price Summary / Totals													
Task Pricing Totals																							
Specify Add'l Fees on Setup										24,420													
Technology Use Fee										0													
Add'l Fees for Prem. O/T Labor										N/A													
Total Price										24,420													
Pricing by Resource																							
Project Phases / Tasks	Schedule		Work Days	Off Work Days	Total Labor Hrs	Project Manager 2 (Jonathan Hense)	Program Manager (Mohamed Nazari)	Sr Engineer 2 (Russ Fischer)	Sr CAD Designer 1 (Keith Richardson)	Verify (Michael Schwab)	Labor Rate Esc.	Labor	Subs	Travel	Matl's & Equip	ODCs	Task Pricing Totals						
Construction Cost Estimate \$1,160,000										159	11	40	90	18	1.23%	24,045	-	-	-	-	-	-	24,420
3C-REUSE TO 7 LANE										135	7	34	78	16		20,328	-	75	100	200	20,703		
03C.01 Add'l Lane Typ Section - 1 Sheet	01/08/14	02/15/14	12	5	40			2	8		148%	1325					1325						
03C.02 Add'l Lane to WB SH-9 - 1 Sheet	01/09/14	02/15/14	12	5	40		2	2	8		148%	1898					1898						
03C.03 Intersection Revs - 1 Sheet	01/01/14	02/15/14	12	5	40		1	1	8		148%	3,302					3,302						
03C.04 Add'l Traffic Signal - 1 Sheet	01/11/14	02/15/14	11	5	40			1	8		148%	1000					1000						
03C.05 Drainage Structures	01/11/14	02/15/14	11	5	40		2	2	8		148%	4,466					4,466						
03C.07 Storm Sewer	01/13/14	02/15/14	11	5	40			3	8		148%	6,853					6,853						
03C.08 Bypass Entry Drives	01/14/14	02/15/14	10	5	40			1	8		148%	878					878						
03C.09 Bypass ROW	01/15/14	02/15/14	10	5	40			2	8		148%	1481					1481						
05 Phase 5 - R/W Acquisition Support										12	2	2	8		1,664	-	-	-	1,664				
05b - 7 Lane Config Add'l R/W Acq					12		2	2	8			1,664					1,664						
06 Phase 6 - Utility Relocation Coordination										12	2	4	4	2	2,053	-	-	-	2,053				
06b - 7 Lane Config Add'l Util Relocates					12		2	4	4	2		2,053					2,053						
Totals	01/08/14	02/15/14	1.2		159	11	40	90	18		1.23%	24,045	-	-	-	-	24,420						