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January 31, 2025

Ms. Sharon Sesler ,PE
Senior Project Engineer
3210 E. Avenue H, Building A
Temple, Texas 76501

Subject: Nugent Avenue 3rd Street to 14th Street – Contract Amendment #2

Dear Ms. Sesler:

At the request of the City of Temple, we are submitting this contract amendment for the above-referenced project. This contract amendment will perform design services to design a potential combination retention - detention pond to the project in coordination with the Hillcrest Cemetery Master Plan Project and convert the current design for Nugent Avenue from 3rd Street to 14th Street to keep the current roadway configuration with the overlay improvements. The roundabout, pedestrian improvements and street rehabilitation from the roundabout to 14th Street will be incorporated for the roadway portion of the project. The Opinion of Cost for Construction (OPC) for the retention – detention pond portion of this project is \$1,600,000 and the OPC for Nugent with the revised scope of work is \$3,700,000.

The work to be performed by KPA under this contract consists of providing engineering services for design of the detention facility for the project and revisions to the current design plan set for Nugent Avenue.

The following services will be performed:

RETENTION - DETENTION POND DESIGN

- i. Perform drone survey that includes LiDAR and Photometrics in order to design the proposed retention - detention facility and develop surfaces for design.
- ii. Develop storm water hydrology for the limits of the drainage area for the proposed retention – detention facility. The hydrology shall be modeled utilizing HEC-HMS with City of Temple drainage criteria to develop the required storm water detention facility for the project. The model shall incorporate the 10%, 4% and 1% annual chance storm (10-year, 25-year, and 100-year) events. Modeling shall verify storm water flows to the facility and conveyance. Based on the data developed, storm water routing shall be designed for the project area.
- iii. Develop final hydraulics to the retention - detention facility conveyances as the conveyance for the area. Hydraulic grade lines will be developed.
- iv. Design outlet structure and conveyance.

- v. Design erosion deterrence with the retention - detention facility.
- vi. Design electrical for the de-chlorination facility.
- vii. Design the de-chlorination facility.
- viii. Design potable water connections for the water feature portion of the facility.
- ix. Design landscaping and irrigation for the facility.
- x. Design low flow conveyance for the retention - detention facility.
- xi. Incorporate the design into the Nugent Avenue Project and the Nugent Dog Park Facility.
- xii. Landscape Design
- xiii. Prepare specifications for the retention - detention facility.
- xiv. Prepare final OPCs for the incorporation of the retention - detention facility.
- xv. Coordinate the project with the City of Temple

NUGENT AVENUE 3rd STREET TO 14th STREET

- i. Convert the AutoCAD model back to the original layout of the existing roadway
- ii. Revise sidewalk design for existing back of curb.
- iii. Design retaining walls to support the revised sidewalk alignment.
- iv. Revise the design for the roundabout to incorporate the existing roadway section and elevations.
- v. Revise the stormwater design at the roundabout / Dog Park Area in conjunction with the revised design.
- vi. Revise the 3rd Street connection to incorporate the existing Nugent Avenue roadway section.
- vii. Design roadway rehabilitation from the roundabout to 14th Street.
- viii. Revise the landscaping design to the new roadway sections.

The following scope of work for the Nugent Avenue 3rd Street to 14th Street – Contract Amendment #2 can be completed for the lump sum price of \$114,930 (This is in addition to the current funds in the project). Attached is a breakdown of project costs. We are pleased to submit this proposal and look forward to the benefit it will bring to the City of Temple.

Retention - Detention Facility Design				
Surveys		\$ 15,300.00		
Retention - Detention Facility Design		\$ 39,100.00		
Electrical Design		\$ 25,000.00		
Waterline Connection / De-chlorination Design		\$ 36,200.00		
Landscape Design		\$ 17,500.00		
Total		\$ 133,100.00		
Nugent Avenue Revisions				
Covert Model to Existing Sections		\$ 3,180.00		
Revise Sidewalk Design		\$ 6,140.00		
Retaining Wall Design		\$ 11,880.00		
Roundabout Revisions with Drainage		\$ 20,600.00		
3rd Street Connection Revisions		\$ 2,800.00		
Roadway Rehabilitation (Roundabout to 14th Street)		\$ 5,000.00		
Total		\$ 49,600.00		
Total		\$ 182,700.00		

The current contract has \$67,770 in design fees that will be eliminated with the proposed changes. The fees that will be eliminated are from Final Civil Design (\$64,930) and from Amendment #1 – Detention Pond Design (\$2,840). This develops a total cost change for the design of the project of \$114,930.

We will invoice monthly for our services based on a percent completion basis. We appreciate the opportunity and look forward to working with you on this project.

Sincerely,



R. David Patrick, PE CFM
President & CEO
dpatrick@kpaengineers.com