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Fee Amendment Request No. 1

To: Alonzo Liñán, PE, PTOE – City of Keller
From: Jonathan Bengfort, PE
CC: Chad Bartee, PE; Scott Wilhelm, PE
Date: March 7, 2020
RE: **Johnson Road Reconstruction (Hallelujah to Rhonda)**
City Contract No. 18-115
TNP Project No. KEL 18388

Alonzo, per your request we offer this fee amendment for your consideration for additional services associated with the Johnson Road Reconstruction project.

Services covered by this authorization shall be performed in accordance with the TNP Supplemental Provisions, under the original agreement, dated November 26, 2018.

The additional efforts associated with this fee amendment request include the following:

1. Roadway Design

a. Schematic Design Additional Services

- i. Performed alternative design tasks to determine the project impacts for a 31-ft B-B roadway section for scenarios of installing sidewalk on each parkway side or both, and a scenario without sidewalk construction. These design alternatives were incorporated in a project deliverable, Preliminary Design Schematic.
- ii. Participated in a project Coordination & Review meeting with City Staff on January 17, 2020. Items covered during the meeting included the City's comments on the preliminary design schematic and direction to evaluate additional design configurations of grading and sidewalk geometry to minimize existing tree impacts.
- iii. Deliverables:

1. A. Preliminary Design Schematic (.pdf)
2. B. Roadway Cross Sections (.pdf)

b. Final Design Additional Services

- i. Revise and finalize water line design between Hallelujah and Rhonda to accommodate the roadway reconstruction design. The design of this water line was originally taken to 60% as part of the Water CIP – Phase 1 project. However, the design was not finalized and requires redesign in order to accommodate the planned Johnson Road reconstruction improvements. There is no remaining budget in the Water CIP contract in order to perform this effort.

c. Timing Study Additional Services

i. Data Collection

1. Obtain the latest copy of the HEC-HMS hydrologic model of Big Bear Creek Tributary BB-10 from the City of Keller or FEMA.
2. Obtain record drawings, particularly the sheets related to storm drainage:

TNP Firm  Registrations

Texas Board of Professional Engineers, Firm No. F-230 | Georgia Board of Professional Engineers, Firm No. PEF007431
 Texas Board of Professional Land Surveying, Firm No. 10011600 | 10194381 | 10011601
 Texas Board of Architectural Examiners, Firm No. BR 2673

- a. Newton Ranch subdivision – the existing detention pond within Lot 3, Block A (1415 Latigo Lane),
 - b. Saddlebrook Estates Addition, and
 - c. Johnson Road from Main Street (Hwy. 377) to Dana Lane.
- 3. Obtain 2017 PLIDAR data for the contributing watershed for the areas that drain toward Johnson Road (mainly to the north).
- 4. Obtain City of Keller future land use map.
- ii. Hydrologic Analysis
 - 1. Review hydrologic model for Tributary BB-10 and update, if necessary, to reflect ultimate watershed development conditions.
 - 2. Verify the design points in the hydrologic model accurately reflect the current point at which flow from the Saddlebrook Estates Addition enters Tributary BB-10, and add a design point if necessary.
 - 3. Revise the Tributary BB-10 hydrologic model to reflect the diversion of storm water from the Newton Ranch subdivision east along Johnson Road to the culvert crossing of Tributary BB-10.
 - 4. Supplement the Tributary BB-10 hydrologic model with data for the area north of Johnson Road that currently drains into the Saddlebrook Addition, adding the contributing area to the model at the Tributary BB-10 culvert crossing.
 - 5. Run the Tributary BB-10 hydrologic model for the FEMA storm frequencies (10-, 50-, 100- and 500-year), as well as the 1-year storm frequency, to compute the anticipated peak discharges.
 - 6. Prepare a tabular comparison of the computed flows for the various storm frequencies on Tributary BB-10 at/downstream of the Johnson Road culvert where the diverted flow is expected to re-enter the channel.
- iii. Assumptions
 - 1. A hydraulic analysis of the Tributary BB-10 floodplain will not be performed. It is assumed that the effect of the proposed storm water diversion on the Tributary BB-10 floodplain will be determined by the peak flows on Tributary BB-10, and any increase in flow will translate to an increase in floodplain elevations.

2. Public Involvement

- a. Participated in three (3) City Council Work sessions and one (1) Public Meeting. Only one concept phase public meeting was accounted for in our original scope and budget. Dates of sessions/meetings include:
 - i. August 22, 2019 (Work Session and Public Meeting)
 - ii. November 5, 2019 (Work Session)
 - iii. February 4, 2020 (Work Session)
- b. Prepared a project presentation utilizing the results from the Preliminary Design Report. This presentation was used to communicate the report's findings and recommendations to Council and Citizens.
- c. Obtained, compiled and organized public feedback and comments from the online project survey and public meeting comment cards.
- d. Thoroughly reviewed all citizen feedback and prepared a consolidated comment summary.

- e. Utilized the citizen survey input and associated data to prepare an interactive GIS map portal to convey results to City staff.
- f. Deliverables:
 - i. PDR Project Presentation for Public Meeting (PowerPoint)
 - ii. Consolidated Summary of Citizen input and survey results
 - iii. GIS interactive map and project portal

The requested budget adjustments for the additional efforts outlined above are as follows:

- 1. Roadway Design:
 - a. Preliminary Design Additional Services: \$40,000 (Lump Sum)
 - b. Final Design Additional Services: \$15,000 (Lump Sum)
 - c. Timing Study Additional Services: \$15,000 (Lump Sum)
- 2. Public Involvement: \$25,000 (Time and Expense)

Total Increase: \$95,000

The original total contract amount is \$714,100. Based on the additional effort identified above, we request increasing the total contract amount to \$809,100. **This will result in an increase of \$70,000 to the Roadway Design task amount (\$403,000 to \$473,000) and an increase in \$25,000 to the Public Involvement task amount (\$12,000 to \$37,000).**

Sincerely,

tnp

teague nall & perkins



Jonathan Bengfort, P.E.
Director of Engineering Services

Authorization for these Additional Services is GRANTED this _____ day of _____, 20____.

Signed: _____

By: Mark Hafner
City Manager
City of Keller