



CITY OF HOUSTON - CITY COUNCIL

Meeting Date:

District E

Item Creation Date: 5/30/2023

HPW - 20FDL2303 PES Amendment/ Lockwood, Andrews & Newnam, Inc.

Agenda Item#:

Summary:

Background:

SUBJECT: Fifth Amendment to the Professional Engineering Services Contract between the City of Houston and Lockwood, Andrews & Newnam, Inc. for the Southeast Transmission Water Line.

RECOMMENDATION: Approve the Fifth Amendment to the Professional Engineering Services Contract with Lockwood, Andrews & Newnam, Inc. and appropriate funds.

PROJECT NOTICE/JUSTIFICATION: This project will provide the basis for design of needed improvements in the City's Southeast Water System. The improvements are focused on replacing and upsizing the existing 42-inch water transmission line along Old Galveston Road (SH 3) from Fuqua to Clear Creek. The 42-inch water line needs to be replaced due to repeated failures that have reduced the reliability of the line. The project will increase flow capacity to the City and the City's Co-Participant customers served by the Southeast Water Purification Plant System (Southeast Water System).

DESCRIPTION/SCOPE: This appropriation will fund various professional engineering services and additional services in support of a feasibility study for replacing the existing 42-inch water line along Old Galveston Road. The study will provide a basis for preparing final design documents for the recommended improvements. The services include routing analyses, hydraulic modeling, easement investigations, and preparing specific recommendations for improvements associated with water service to the City's Southeast Water System.

LOCATIONS:

PROJECT NAME	LOCATION	COUNCIL DISTRICT
20,750 Linear Feet of 54-inch Water Line	Along easements from Grayson Street to HCFCD Channel No. B-104-05-00.	E
9,600 Linear Feet of 48/42/16-inch Water Line	Along easements and SH3, from Clear Lake City Pump Station No. 3 to Magnolia Avenue and Abandonment of existing 42-inch waterline along Old Galveston Road.	E
16,100 Linear Feet of 54-inch Water Line	Along easements from HCFCD Channel No. B-104-05-00 to Clear City Pump Station No. 3.	E
12,800 Linear Feet of 36-inch Water Line	Along South of Bay Area Boulevard, parallel to HCFCD easement, Unit A-11100-00 and along West Medical Center Boulevard from SH3 to Beamer Road and abandonments of existing 24-inch waterline along Bay Area Boulevard.	E
15,200 LF of 36-inch Water Line	Along perimeter of price Baybrook property, Blossom Street, Texas Avenue and Orchard Street from Beamer Road to east of SH3 Abandonment of 24-inch waterline along Bay Area Boulevard.	E
11,300 LF of 24-inch Water Line	Along SH3 from the 42-inch waterline at Fuqua Street to Dixie Farm Road (FM 1959).	E

16,700 LF of 16/12/8-inch Water Line	Along SH3 from Dixie Farm Road (FM1959) to 1,500 feet north of West Texas Avenue.	E
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PREVIOUS HISTORY AND SCOPE: City Council approved the original contract on June 24, 2015 under Ordinance No. 2015-0623. The scope of services under the original contract consisted of funding various professional engineering services and additional services in support of a feasibility study for replacing the existing 42-inch water line along Old Galveston Road. The study provided a basis for preparing final design documents for the recommended improvements. The services included routing analyses, hydraulic modeling, easement investigations, and preparing specific recommendations for improvements associated with water service to the City's Southeast Water System. Under this contract, the Consultant has accomplished completion of the Southeast Transmission Line Feasibility Study Report, SH 3 Distribution Water Line Preliminary Engineering Report, real estate support, contract management services, cathodic protection, Supervisory Control and Data Acquisition, transient analysis, cost sharing support for Co-participants, financial models, and projection. The below subsequent Council Actions associated with this contract include:

<u>Ord. No.</u>	<u>Ord. Date</u>	<u>Type</u>	<u>Scope of the Action</u>	<u>Accomplished to Date</u>
2018-0766	09-26-2018	Amend	Acquired easements for construction of distribution water line and transmission line.	Design, environmental services, geotechnical services, surveying, real estate acquisition
2020-0023	01-08-2020	Amend	Construction of the Highway 3 Distribution Water Line projects, ranging in diameters from 8 - 24 inches.	Technical review services, real estate support, hydraulic modeling, cathodic protection
2020-0314	04-15-2020	Amend	Construction of the Southeast Transmission Water Line projects, ranging in diameters from 16 - 54 inches.	Management services, real estate support, staff augmentation, coordination services
2023-0275	04-19-2023	Amend	Perform feasibility study for replacing existing 42-inch water line.	Hydraulic modeling, subsurface utility engineering, SCADA evaluations, surveying, geotechnical services

SCOPE OF THIS AMENDMENT AND FEE: Under the scope of the Fifth Amendment, the Consultant will accomplish the following: Design and Real Estate Acquisition for the 54-inch transmission main (Southeast Transmission Water Line Extension). Additional Services include survey, geotechnical investigation, environmental assessment, stormwater pollution prevention plan, tree protection plan, independent quantity review, cathodic protection, hydraulic modeling, shut down planning, transient analysis, cost sharing support for Co-participants, public information assistance, field coordination support, appraisal services, negotiations, title examination services, relocation, preliminary condemnation services and disposal of improvements associated with acquiring easements. A fee of \$1,320,000.00 is budgeted for Basic Services and \$1,914,600.00 for Additional Services.

The total requested appropriation is \$3,719,900.00 to be appropriated as follows: \$3,234,600.00 for contract services and \$485,300.00 for CIP Cost Recovery.

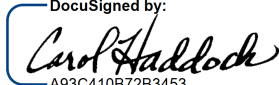
PAY OR PLAY PROGRAM: The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City Contractors. In this case, the Contractor provides health benefits to eligible employees in compliance with City policy.

M/WBE PARTICIPATION: The M/WBE goal established for this project is 24.63%. The original contract amount and subsequent appropriations total \$21,929,800.00. The Consultant has been paid \$7,583,967.00 (34.58%). Of this amount, \$2,159,512.00 (28.47%) has been paid to M/WBE sub-contractors to date. Assuming approval of the requested amendment, the contract amount will increase to \$25,164,400.00. The Consultant proposes the following plan to meet the M/WBE goal.

<u>Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Total Contract</u>
Paid Prior M/WBE Commitment		\$2,159,512.00	8.58%
Unpaid Prior M/WBE Commitment		\$3,416,236.00	13.58%

1. Geotest Engineering, Inc.	Geotechnical services	\$ 125,000.00	0.50%
2. Kuo & Associates, Inc.	Engineering support	\$ 360,000.00	1.43%
3. Othon, Inc.	Engineering support	\$ 175,000.00	0.70%
4. Perches Land Services	Preliminary condemnation	\$ <u>167,200.00</u>	<u>0.66%</u>
TOTAL		\$6,402,948.00	25.44%

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project.

DocuSigned by:
 11/13/2023
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 Carol Ellinger Haddock, P.E., Director
 Houston Public Works

WBS No. S-000900-0142-3

Prior Council Action:

- Ordinance No. 2015-0623, dated 06-24-2015
- Ordinance No. 2018-0766, dated 09-26-2018
- Ordinance No. 2020-0023, dated 01-08-2020
- Ordinance No. 2020-0314, dated 04-15-2020
- Ordinance No. 2023-0275, dated 04-19-2023

Amount and Source of Funding:

Total: \$3,719,900.00

\$59,206.60 Appropriate from Fund No. 8500 – Water and Sewer System Consolidated Construction Fund
 \$394,621.20 Transfers from Fund No. 8500 – Water and Sewer System Consolidated Construction Fund into Fund 8510 HPW-SETL Construction Fund and Appropriate from Fund No. 8510 - HPW SETL
 \$3,266,072.20 Appropriate from Fund No. 8509 Water Authorities Capital Contribution Fund- SETL
 (Transfer up to \$1,063,627.64 to Fund No. 8500 for Cost Recovery)

Original appropriation of \$1,913,600.00 from Fund No. 8500 - Water and Sewer Consolidated Construction Fund.

Subsequent appropriation of \$437,100.00 from Fund No. 8500 - Water and Sewer Consolidated Construction Fund, \$2,914,000.00 transfers from Fund No. 8500 Water and Sewer Consolidated Construction Fund to Fund No. 8510 - HPW-SETL Construction Fund.

Second subsequent appropriation of \$262,400.00 from Fund No. 8500 - Water and Sewer Consolidated Construction Fund, \$2,623,600.00, transfers from Fund No. 8500 Water and Sewer Consolidated Construction Fund to Fund No. 8510 - HPW-SETL Construction Fund and appropriate from Fund No. 8510 - HPW SETL Construction Fund.

Third subsequent appropriation of \$8,153,595.28 - Appropriate from Fund No. 8509 HPW-SETL Capital Contribution Fund. Transfer up to \$1,063,627.64 to Fund No. 8500 - Water and Sewer System Consolidated Construction Fund for Cost Recovery. \$1,204,332.36 - Transfers from Fund No. 8500 Water and Sewer System Consolidated Construction Fund into Fund No. 8510 - HPW SETL Construction Fund and appropriate from Fund No. 8510 - HPW SETL Construction Fund. \$180,672.36 - Appropriate from Fund No. 8500 - Water and Sewer System Consolidated Construction Fund.

Fourth subsequent appropriation of \$5,246,677.00 from Fund No. 8509 - SETL Capital Contribution Fund. \$1,871,661.00 from Fund No. 8510 - SETL Construction Fund. \$280,862.00 from Fund No. 8500 - Water and Sewer Consolidated Construction Fund.

Contact Information:

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ATTACHMENTS:

Description	Type
SAP Documents	Financial Information
Maps	Backup Material
OBO Documents	Backup Material
Form B	Backup Material
Ownership Information Form and Tax Report	Backup Material
Pay or Play	Backup Material
Form 1295	Backup Material
Prior Council Action	Backup Material