

CITY OF HIGH POINT

AGENDA ITEM



Title: Wharton-Smith, Inc.
Eastside WWTP Solids Handling Improvements
Change Order 3

From: Terry Houk – Public Services Director

Meeting Date: May 16, 2016

Public Hearing: No

Advertising Date: N/A
Advertised By: N/A

Attachments: Attachment A – Change Order Documents

PURPOSE:

The City of High Point disposes bio-solids from the wastewater system via incineration. The current solids handling equipment, due to age and serviceability life, requires replacement and upgrades. The work for this project will include installation of two new centrifuges, two new cake pumps, and rehabilitation of the incinerator to comply with new EPA air emission requirements.

The City has prepurchased the centrifuges, cake pumps, and incinerator under separate bids. This project will install all the new equipment and any additional required equipment to make the new solids handling system operational.

BACKGROUND:

During the process of upgrading the system multiple unforeseen issues were identified that required additional replacement and or modification to ensure that this system would be fully functional and meet requirements for the service life of the system. Public Services in conjunction with the engineering firm concluded that the improvements were needed and the costs were justifiable.

BUDGET IMPACT:

Funds for this project are in the following account:

421779-533701-421111025205-40201

RECOMMENDATION / ACTION REQUESTED:

Council is requested to approve Change Order 3 to Wharton - Smith, Inc. for \$371,083.73 and authorize the appropriate city official to execute all necessary documents.

Change Order

No. 3

Date of Issuance: May 2, 2016

Effective Date: May 2, 2016

Project: Eastside WWTP Solids Handling Improvements	Owner: City of High Point	Owner's Contract No.: Bid No. 13-121014
Contract: Eastside WWTP Solids Handling Improvements		Date of Contract: January 29, 2015
Contractor: Wharton-Smith, Inc.		Engineer's Project No.: 3460-014

The Contract Documents are modified as follows upon execution of this Change Order:

Description:

For work described on page 3 and in attached documents.

Attachments (list documents supporting change):

RFP/WCD No. 11 with W-S WCP # 21; RFP/WCD No. 12 with W-S WCP # 22r2; RFP/WCD No. 13 with W-S # 23; RFP/WCD No. 14 with W-S WCP # 24; RFP/WCD No. 15 with W-S WCP # 25; RFP/WCD No. 16 with W-S WCP # 26r1; RFP/WCD No. 17 with W-S WCP # 27; RFP/WCD No. 18 with W-S WCP # 28r1; RFP/WCD No. 19 with W-S WCP #29r1; RFP/WCD No. 20 with W-S WCP # 30; RFP/WCD No. 22 with W-S WCP # 33, and RFP/WCD No. 23 with W-S WCP # 31r1.

CHANGE IN CONTRACT PRICE:

Original Contract Price:

\$8,847,850.00

[Increase] [Decrease] from previously approved
Change Orders No. 0 to No. 2:

\$179,535.68

Contract Price prior to this Change Order:

\$9,027,385.68

Increase of this Change Order:

\$371,083.73

Contract Price incorporating this Change Order:

\$9,398,469.41

CHANGE IN CONTRACT TIMES:

Original Contract Times: ☐ Working days ☒ Calendar days

Substantial completion (days or date): February 25, 2016

Ready for final payment (days or date): March 26, 2016

[Increase] [Decrease] from previously approved Change Orders
No. 0 to No. 2:

Substantial completion (days): 90

Ready for final payment (days): 90

Contract Times prior to this Change Order:

Substantial completion (days or date): March 25, 2016

Ready for final payment (days or date): June 24, 2016

Increase of this Change Order:

Substantial completion (days or date): 19

Ready for final payment (days or date): 19

Contract Times with all approved Change Orders:

Substantial completion (days or date): June 13, 2016

Ready for final payment (days or date): July 13, 2016

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: _____ Hazen & Sawyer	By: _____ City of High Point (Authorized Signature)	By: _____ City of High Point - Finance
Date: _____	Date: _____	Date: _____

ACCEPTED by CONTRACTOR:	Wharton-Smith, Inc.
By: _____ Contractor (Authorized Signature)	<u>Company Seal</u>
Date: _____	

DESCRIPTION / JUSTIFICATION

1. WHARTON-SMITH WCP # 21 (RFP/WCD NO. 11 – REMOVE & REPLACE INCINERATOR ROOF SPRAY SYSTEM)

The Owner requested removal and replacement of the existing incinerator roof spray system due to age. **Cost increase for changes is \$53,098.55.**

2. WHARTON-SMITH WCP # 22r2 (RFP/WCD NO. 12 – MODIFICATIONS TO FUEL OIL PUMPS AND PIPING)

Owner requested modifications to fuel oil pumps and piping and modifications to provide better access in the Incinerator Building. **Cost increase for changes is \$46,157.60.**

3. WHARTON-SMITH WCP # 23 (RFP/WCD NO. 13 – REPLACEMENT OF SCRUBBER COOLING WATER PUMPS)

The Owner requested removal and replacement of the scrubber cooling water pumps due to age. **Cost decrease for changes is \$84,926.26.**

4. WHARTON-SMITH WCP # 24 (RFP/WCD No. 14 – RELOCATE TRANSFORMER TX-LP-11 AND MBC-01 STARTER)

Transformer and starter had to be relocated so that the Westside Receiving Station VFDs could be placed inside the electrical room. **Cost increase for this work is \$4,016.17.**

5. WHARTON-SMITH WCP # 25 (RFP/WCD No. 15 – ROTATING DEMISTER AND MODIFYING INLET/OUTLET DUCTS)

To improve maintenance access to the demister, rotating the demister and modifying inlets and outlets was required. **Cost increase for this work is \$8,863.35.**

6. WHARTON-SMITH WCP # 26R1 (RFP/WCD No. 16 – PROVIDING 480 VAC POWER SUPPLY TO FCV-4101 AND FCV-32)

The Owner requested changing actuators for flow control valves FCV-4101 and FCV-32 from 120 to 480 VAC. **Cost increase for this work is \$4,861.92.**

7. WHARTON-SMITH WCP # 27 (RFP/WCD No. 17 – BACKFLOW PREVENTERS FOR PW PIPING INSIDE THE SOLIDS FACILITY)

The Owner requested that PW be provided to the polymer makeup units, and the cake feed pump equipment manufacturer requested PW to be provided to the pumps and lubrication systems in lieu of NPW **Cost increase for this work is \$12,365.29.**

8. WHARTON-SMITH WCP # 28R1 (RFP/WCD No. 18 – INCINERATOR ROOF SYSTEM REPLACEMENT – PHASE No. 2)

The Owner elected to remove and replace the existing roofing system for the Incinerator Building to facilitate installation of the new incinerator and ancillary equipment. The cost associated with this work is for the remaining removal of the roof and replacement with a new roofing system. **Cost increase for this work is \$76,781.03.**

9. WHARTON-SMITH WCP # 29R1 (RFP/WCD No. 19 – RELOCATION OF EXISTING SCRUBBER COOLING WATER PUMP DISCHARGE PIPING)

Piping had to be modified to accommodate relocation of the new scrubber cooling water pumps. New discharge locations were also provided. **Cost increase for this work is \$48,365.90.**

10. WHARTON-SMITH WCP # 30 (RFP/WCD No. 20 – ADDITION OF REMOTE ALARM PANEL FOR AIT-200)

An additional remote alarm panel for AIT-200 is required for one exterior door to the cake pump room to alert personnel of the presence of hydrogen sulfide. **Cost increase for this work is \$5,885.36.**

11. WHARTON-SMITH WCP # 33R1 (RFP/WCD No. 22 – RELOCATE EXISTING SAND SILO AIR COMPRESSOR)

The existing sand silo air compressor must be relocated due to spatial constraints. **Cost increase for this work is \$15,759.68.**

12. WHARTON-SMITH WCP # 31R1 (RFP/WCD No. 23 – REROUTE GAC DRAIN)

Modifications were required to avoid interferences with buried utilities. **Cost increase for this work is \$10,002.62.**

13. TIME EXTENSION FOR ADDITIONAL WORK

A time extension of **19 days** was awarded to Wharton-Smith for work associated with RFPs 11, 12, 13, 15, 19, and 23.