



City of North Port

PURCHASING

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WORK ASSIGNMENT – CHANGE ORDER/AMENDMENT

CONSULTANT

CDM Smith, Inc.

CONTINUING CONTRACT # & TITLE

2016-23 Utilities Engineering Services

THIS WORK ASSIGNMENT

WORK ASSIGNMENT

2017-03

SHORT TITLE

Wastewater Hydraulic Model

Attach justification and supporting documentation

DATE SUBMITTED

3/31/2017

AMOUNT (LUMP SUM)

\$ 25,522.00

SCHEDULED COMPLETION

9/30/2017

CONTRACT AND BUDGET OVERVIEW

	DEPARTMENT	CITYWIDE (completed by Purchasing)
TOTAL OF PREVIOUS ASSIGNMENTS	\$ 99,994.00	\$ 435,439.00
THIS WORK ASSIGNMENT	\$ 25,522.00	\$ 25,522.00
TOTAL WORK ASSIGNMENTS	\$125,516.00	\$ 460,961.00
ACCOUNT NO/PROJECT NO	423-6062-535-3105	VARIOUS

All work assignments require City Manager approval. In presenting this work assignment, it is understood that:

1. Unless specified herein, work does not involve watercraft, boat piers and/or other activities requiring additional workers compensation endorsements.
2. Contact or involvement with hazardous materials is not anticipated, should hazardous materials be encountered, the City shall be informed.



CITY OF NORTH PORT

CHANGE ORDER/CONTRACT AMENDMENT FORM

WA #: 2017-03

CO#: 2 Amendment #:

City's Contract No.: 2016-23

Project Manager/Engineer: Mike Vuolo

Project Name: Wastewater Hydraulic Model

Description:

The preliminary findings of Task 1 with regard to the capacity available in the US 41 Corridor force main have prompted further evaluation and analysis of existing water meter and wastewater flow data to better determine the system's ability to adequately meet the needs of existing customers and future development until the Southwest Wastewater Treatment Facility is constructed and operational. Further, this analysis will aid in the evaluation of options to increase capacity, if needed, and help determine at what point additional infrastructure or system improvements may be needed to provide appropriate capacity until the Southwest Wastewater Treatment Facility is constructed and operational. Additionally, while it was initially believed the model calibration could be performed in-house, with the continued vacancy of the Utilities Engineer, staff is requesting this be added back in to the Work Assignment.

Purpose of Change Order:

Utilities is requesting the expansion of services relative to the evaluation of the capacity of the US 41 Corridor Force Main under Task 1 to include an analysis of water and wastewater operational flow data and requesting to add Task 3 back to the Work Assignment. The Consultant has provided a scope and fees not to exceed \$12,550 for this additional work, which together with the \$12,972 to replace Task 3, results in the addition of \$25,522.

It is anticipated that the inclusion of this additional scope of work will add an estimated 96 days to the time necessary to complete the project. To accommodate the additional time needed, final completion date for the wastewater hydraulic model will be extended to September 30, 2017.

Attachments (list documents supporting change):

1. Change Order 2 to Work Assignment 2017-03

CHANGE IN CONTRACT PRICE					CHANGE IN CONTRACT TIME	
Original Contract Amount:	\$ 99,994.00				Original Contract Time (days or dates):	N/A
Previous change orders:	#	1	to #	1	Approved Additions/Deductions of time:	N/A
Approved Change Orders Amount:	\$ 0.00				Current Contract Time:	N/A
Current Contract Price:	\$ 99,994.00				Increase/(Decrease) in contract time:	N/A
Increase/(Decrease):	\$ 25,522.00				Total Approved Contract Time:	N/A
Total Contract Amount:	\$ 125,516.00				Original Completion Date:	6/26/17
					Revised Completion Date:	9/30/17

CONTINGENCY FUNDS	
Use of Contingency Funds?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Original Contingency Amount:	N/A
Approved Use of Contingency Amount:	N/A
Increase/(Decrease):	N/A
Contingency Balance:	N/A

RECOMMENDED:

By: Paul Pirault
Contractor

Date: 4/3/17

RECOMMENDED:

By: [Signature]
City Project Manager

Date: 4-7-17

APPROVED:

By: [Signature]
Department Director

Date: 4-7-17

APPROVED:

By: _____
Purchasing Manager

Date: _____

APPROVED:

By: _____
Finance Director

Date: _____

APPROVED (if applicable):

By: _____
City Manager

Date: _____

CONTRACT NO. 2016-23, WORK ASSIGNMENT 2017-03
CITY OF NORTHPORT WASTEWATER HYDRAULIC MODEL
CHANGE ORDER NO. 2

SCOPE OF WORK

I. Analysis of water and wastewater flow data:

1. **WVID Water Meter Data Analysis** - CDM Smith will process, at a minimum, the most recent 1 continuous year of potable water billed metered data for the West Villages Improvement District.
2. **Pump Station Run Time Data Analysis** - CDM Smith will process, at a minimum, the most recent 1 continuous year of pump runtimes for Pump Station 82 and Pump Station 88 on an hourly or better data resolution.
3. **Final Memorandum** - CDM Smith will prepare a Technical Memorandum outlining the findings and recommendations of the work performed.

Assumptions:

1. City can provide WVID potable water billed meter data as a separate subset of the overall City potable water billed meter data that included the WVID.
2. A meeting will be required to review and discuss the findings. The meeting may include the City, WVID and/or Stantec.

II. Adding "Task 3 – Model Calibration" back into the Work Assignment:

- 3.1 A suggested lift station flow testing plan for City staff to perform flow tests at selected locations in the collection system to develop representative friction/C-factors for various types of wastewater mains based on age, size, and material if applicable.
- 3.2 Flow testing information will be used to adjust initial C-factors and or unit demands assigned to lift stations in the existing conditions model to better match the hydraulic characteristics present in the system. Calibration efforts will achieve a level of calibration deemed acceptable by the selected firm and City staff.
- 3.3 A technical memorandum will be prepared and electronically submitted documenting the work completed to build the existing conditions model. The memo will include existing conditions model results, a log of information used in model development, and other pertinent information deemed useful for future model development efforts.

Estimated Fee for this Task:

1. The fee for this task shall not exceed \$25,522.

Attachment A

City of North Port
CONSTRUCT CITY-WIDE CALIBRATED HYDRAULIC WASTEWATER MODEL
Fee Estimate

Task Description	Principal-in-Charge \$275 /hr		Senior Project Manager \$200 /hr		Senior Engineer \$190 /hr		Engineer \$130 /hr		Clerical \$75 /hr		Totals Labor Costs		Total Costs
	hours	costs	hours	costs	hours	costs	hours	costs	hours	costs	hours	costs	
Task 6 - Water and Wastewater Flow Data Analysis	4	\$1,100	12	\$2,400	14	\$2,660	48	\$6,240	2	\$150	80	\$12,550	\$12,550
Task 6.1 - WVID Water Meter Data Analysis	2	\$550	4	\$800	8	\$1,520	16	\$2,080	0	\$0	30	\$4,950	\$4,950
Task 6.2 - Pump Station Run Time Data Analysis	2	\$550	4	\$800	6	\$1,140	24	\$3,120	0	\$0	36	\$5,610	\$5,610
Task 6.3 - Final Memorandum	0	\$0	4	\$800	0	\$0	8	\$1,040	2	\$150	14	\$1,990	\$1,990
Total	4	\$1,100	12	\$2,400	14	\$2,660	48	\$6,240	2	\$150	80	\$12,550	\$12,550