



Meeting: Village Board
Meeting Date: 06/10/2013
Agenda Item: 5d

Mission Statement

Delivering quality services in a courteous, cost-effective and efficient manner.

VILLAGE BOARD MEETING STAFF REPORT

REPORT TO: Burt R. McIntyre, President
Village Board of Trustees

REPORT FROM: Michael J Kaster, PE, Director of Engineering

AGENDA ITEM: Review and take action on Change Order #1 for the Highway 29/CTH FF Utility Extensions project, involving an \$80,985.00 increase.

POLICY ISSUE

Should the Village Board approve a contract change order necessary to complete the project?

BACKGROUND INFORMATION

This change order reflects the addition of dewatering work necessary to complete the Sanitary Sewer installation on Woodland Road and Shawano Ave.

As the Contractor was installing sanitary sewer on Shawano Avenue approaching Woodland Road the soil conditions in the trench were extremely poor. Excessive water and soft sub-soils were making the work very difficult. The Contractor finished work on May 8 and returned to the site the next morning to discover that their trench had blown out from the bottom up and was flooding. Groundwater was entering the excavation at a rate that was too high for work to continue.

The project was shut down and additional soil exploration was conducted to determine the cause and a path forward. The exploration showed that there was a sand and gravel layer (confined aquifer) below the sewer grades in the area, and was the cause of the installation issues.

The exploration showed that a large scale dewatering effort was required to relieve the water pressure on the trench and would allow work to continue. Upon receipt of the plan, staff investigated the plan and prices with our Geotechnical Consultant, other engineers that have worked with these types of conditions, and also other contractors that have worked with the dewatering company. Based on these conversations, and investigation of industry pricing, staff determined that the change order is warranted and reasonable.

The dewatering work was authorized by staff because:

- The wells had a construction time of one week, and had to operate for a week prior to the Contractor being able to re-commence construction.
- The dewatering company was unavailable in June.

- A completion time of early July required to meet DOT schedules, and other utility companies needing to work in the area as well the dewatering work had to get underway as soon as possible.
- The cost of the dewatering work would be required to complete the sewer installation whether the issue was discovered in the design phase investigations (occurred after budgeting estimates) or as it was during construction.

The dewatering work has commenced, with no trench failures and should be completed within 3 weeks time.

Department Measurement: Remain within the established budget plus 10% contingency.

The original contract totaled \$705,418.00. With approval of the construction change order, the new contract total would be \$786,403.00 or 11.5% more than the original contract. Funds originally budgeted for this project totaled \$1,020,000 in the Utility Capital Projects, water and sanitary sewer utility fund.

PRIOR ACTION/REVIEW

- The Village Board awarded the project on April 8,2013.

FISCAL IMPACT:

1. Is There A Fiscal Impact?	<u>Yes</u>
2. Is it Currently Budgeted?	<u>Yes</u>
3. If Budgeted, Which Line?	<u>Capital Project</u>
4. Amount	<u>\$1,020,000</u>

RECOMMENDED ACTION

Village staff recommends that the Village Board approve the change order.

If the Village Board were in favor of this action, the following motion could be made:

“Motion to approve change order #1 for the Highway 29 CTH FF Utility Extensions project, involving an \$80,985.00 increase”.

POLICY ALTERNATIVE(S)

The Village Board could take the following actions:

- Approve the change order
- Not approve the construction change order but would need to decide how to pay for the installed work.

ATTACHED INFORMATION

- I. Change Order

COPIES FORWARDED TO:

- I. None

COPY

SECTION 00820

Change Order

No. 1

CONTRACTOR (Name and Address):

PTS Contractors
4075 Eaton Road
Green Bay, WI 54311

OWNER (Name and Address):

VILLAGE OF HOWARD
1336 CORNELL ROAD
GREEN BAY, WI 54313

CONTRACT (Name and Number):

Highway 29 CTH FF Utility Extensions
11006

The Contract Documents are modified as follows upon execution of this change order:

SEE THE ATTACHED EXPLANATION / JUSTIFICATION ON PAGE 2

Recommend by Engineer / Consulting Engineer

Date

6/4/13

Accepted by Director of Public Works

Date

6/4/13

Accepted by Owner

Date

Accepted by Contractor

Date

6/4/13

EJCDC No. C-941 (2002 Edition)

Prepared by the Engineers Joint Contract Documents Committee and endorsed by the Associated General Contractors of America and the Construction Specifications Institute.

VILLAGE OF HOWARD

SECTION 00820

Attachment to Change Order

No. 1

ITEM No.	DESCRIPTION OF WORK	ADDITION QUANTITY	DELETION QUANTITY	UNIT PRICE	ADDITION	DELETION
-1	Contract Dewatering and Dewatering Work	1.00		\$80,985.00	\$80,985.00	
					\$80,985.00	\$0.00
	Net Contract Adjustment					\$80,985.00

JUSTIFICATIONS:

- As the Contractor was installing sanitary sewer along Shawano Ave conditions in the trench were adverse to typical sewer installation with standard trench pumps. Upon returning to the jobsite on a morning following excavation the Contractor found their trench had been blown out from the bottom by an underground confined aquifer. The aquifer was approximately 5-7 feet below the sewer grade, with silt and silty clay between. This was an unforeseen condition. The job was shut down and further soil exploration was performed to determine the extent of dewatering required. After receipt of plan from the Contractor, staff investigated the plan and price with our Geotechnical Consultant, other Engineers experienced with this type of work, and other contractors. Upon review staff determined that the change order is warranted and reasonable. Dewatering has commenced and sewer excavation has continued with much greater success and no failures.

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VILLAGE OF HOWARD

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