



Meeting: Village Board
Meeting Date: 08/12/2013
Agenda Item: 6g

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 #2 for the Highway 29 CTH FF Utility Extensions project, involving a \$70,264.33 increase.

POLICY ISSUE

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

BACKGROUND INFORMATION

This change order reflects the reduction of unused quantities and the addition of items necessary to complete the roadway restoration on Woodland Road and Shawano Ave.

Construction schedule restraints, poor soil conditions, and unfavorable weather conditions lead to additional materials for erosion control, pipe foundation, and road base to complete construction as needed to provide a good end product for the Village.

Construction change order #1 included trench dewatering work required to allow for the sewer installation along Shawano and Woodland. The dewatering work was successful in that it allowed the sewer work to be completed without additional trench failures. However due to the nature of the soil materials at the bottom of the trench, additional stone bedding was required to support the sewer pipe. This condition was anticipated in the design process, but the severity of the condition turned out to be greater during construction.

The materials in the trenches also made the road repairing work more difficult as the disturbance of these soils made them unstable for road building. When building roads on conditions such as these, there are typically two options that are available. Bring in additional road base and materials to stabilize the subgrade, and/or give the subgrade time to stabilize prior to road building.

Staff allowed the roadway subgrades to sit as long as possible in attempt to allow the subgrade time, however it was required to have Shawano Ave re-opened, for a detour change, in the area of our sewer work so that the Contractor could meet the DOT deadline of having all utility work completed from Woodland Road south to STH 29 prior to July 4th. Shawano Ave required 2-3 feet of additional stone bedding as well as geotextile fabric in order to allow for completion of the road restoration. Woodland Road was then allowed to sit for an additional period of time until the project was very near complete, and it was time to finish the roadway so that the residents could

once again use their driveways. The additional time on Woodland Road did help to stabilize the subgrade to a degree, but the road still required an additional 1-3 feet of stone base as well as geotextile fabric to allow for reconstruction.

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 \$856,667.33 or 21.4% 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, so the project is still under the budgeted amount for 2013

PRIOR ACTION/REVIEW

- The Village Board awarded the project on April 8th,2013.
- The Village Board Approved CCO #1 on June 10th, 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>\$70,264.33</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 #2 for the Highway 29 CTH FF Utility Extensions project, involving a \$70,264.33 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. 2

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

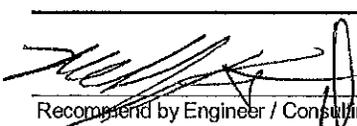
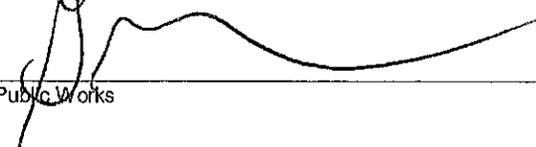
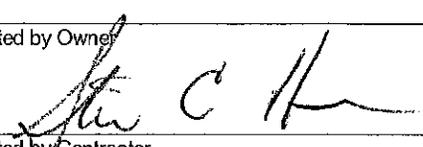
CONTRACT (Name and Number):

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

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES (FOR ALL WORK):
Original Contract Price:	Original Contract Time:
\$705,418.00	Substantial Completion (days or date): July 15, 2013
	Ready for final payment (days or date): July 15, 2013
Current Contract Price prior to this Change Order:	Current Contract Time prior to this Change Order:
\$786,403.00	Substantial Completion (days or date):
	Ready for final payment (days or date): July 15, 2013
Cost of this Change Order:	Time allowed on this Change Order:
\$70,264.33	Substantial Completion (days or date):
	Ready for final payment (days or date): July 15, 2013
New Contract Price incorporating this Change Order:	New Contract Time with all approved Change Orders:
\$856,667.33	Substantial Completion (days or date):
	Ready for final payment (days or date): July 15, 2013

 Recommend by Engineer / Consulting Engineer	8/6/13 Date
 Accepted by Director of Public Works	8/6/13 Date
Accepted by Owner	Date
 Accepted by Contractor	8/7/13 Date

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. 2

ITEM No.	DESCRIPTION OF WORK	ADDITION QUANTITY	DELETION QUANTITY	UNIT PRICE	ADDITION	DELETION
1-A -1	8" Diameter SDR 35 PVC Sanitary Sewer	22.00		\$25.40	\$558.80	
1-A -2	10" Diameter SDR 35 PVC Sanitary Sewer	29.00		\$40.00	\$1,160.00	
1-A -3	12" Diameter SDR 35 PVC Sanitary Sewer		16.00	\$35.40	\$0.00	\$566.40
1-A -4	8"x4" PVC Service Branches		3.00	\$50.00	\$0.00	\$150.00
1-A -5	10"x4" PVC Service Branches	3.00		\$123.00	\$369.00	\$0.00
1-A -6	12"x4" PVC Service Branches	1.00		\$175.00	\$175.00	\$0.00
1-A -7	4" Diameter Schedule 40 PVC Sewer Service	36.50		\$35.00	\$1,277.50	\$0.00
1-A -8	4" Diameter Schedule 40 PVC Riser Pipe	6.00		\$41.00	\$246.00	\$0.00
1-A -9	4' Diameter Manhole, Type 1		6.13	\$209.00	\$0.00	\$1,281.17
1-A -10	Manhole Drop (excluding manhole)		9.20	\$391.00	\$0.00	\$3,597.20
1-A -12	Pipe Foundation Material, Soil Class A-7 (as ordered)	919		\$16.00	\$14,704.00	\$0.00
1-A -13	Select Backfill Material Soil Class D-3 (as ordered)		100.00	\$12.00	\$0.00	\$1,200.00
1-A -17	Crushed Aggregate Base Course		2027.29	\$8.40	\$0.00	\$17,029.24
1-A -18	Bituminous Pavement Surface Course 1"		120.34	\$60.10	\$0.00	\$7,232.43
1-A -19	Bituminous Pavement Binder Course 2"	38.58		\$65.16	\$2,513.87	\$0.00
1-A -20	3" Asphaltic Driveway		3.00	\$40.80	\$0.00	\$122.40
1-A -23	Ditch Check, Log (as ordered)	46		\$78.00	\$3,588.00	\$0.00
1-A -24	Dewatering Bag/Box	20		\$330.00	\$6,600.00	\$0.00
1-A -25	Erosion Mat Class I, Type B (2:1 max, as ordered)		1880.00	\$1.50	\$0.00	\$2,820.00
1-A -26	Erosion Control Maintenance Personnel (as ordered)		20.00	\$60.00	\$0.00	\$1,200.00
1-A -27	Erosion Control Maintenance Equipment (as ordered)		20.00	\$50.00	\$0.00	\$1,000.00
1-A -28	Seeding, Fertilizing & Mulch	4743		\$0.75	\$3,557.25	\$0.00
1-A -29	Borrow, Soil Class E-1, Topsoil by the truck yard (as ordered)		200.00	\$8.00	\$0.00	\$1,600.00
1-B -1	8" Diameter DR 18 PVC Watermain		7.00	\$26.00	\$0.00	\$182.00
1-B -3	12" Diameter DR 18 PVC Watermain		4.00	\$42.00	\$0.00	\$168.00
1-B -5	6" Diameter DR 18 PVC Hydrant Lead		1.50	\$41.00	\$0.00	\$61.50
1-B -11	6" Hydrant Extensions (as ordered)		2.00	\$501.00	\$0.00	\$1,002.00
1-B -14	1" Diameter DR 9 HDPE Water Service	6.50		\$13.80	\$89.70	\$0.00
1-B -18	Pipe Foundation Material, Soil Class A-7 (as ordered)		50.00	\$16.00	\$0.00	\$800.00
1-B -19	Select Backfill Material, Soil Class D-3 (as ordered)		50.00	\$12.00	\$0.00	\$600.00
1-B -20	Additional Fittings (as ordered)		1.00	\$2,500.00	\$0.00	\$2,500.00
1-B -22	2"x4'x8' Polystyrene Insulation		270.00	\$8.05	\$0.00	\$2,173.50
	Salvaged Millings & Road Base	2322.00		\$7.00	\$16,254.00	\$0.00
	Breaker Run	4912.00		\$12.00	\$58,944.00	\$0.00
	Geotextile Fabric	3719.00		\$1.95	\$7,252.05	\$0.00
	Base Repair	1.00		\$2,161.00	\$2,161.00	\$0.00
1-A -22	Silt Fence (as ordered)		1300	\$3.00	\$0.00	\$3,900.00
					\$119,450.17	\$49,185.84
	Net Contract Adjustment					\$70,264.33

JUSTIFICATIONS:

- 1 Addition and deletion of unused bid items.
- 2 Pipe foundation increased to provide pipe from sagging or collapsing. Increase in foundation was based on geotechnical consultant review.
- 3 Salvaged millings/road base was used as a lower cost option, to rebuild the roadway, than use of new base course.
- 4 Breaker run & geotextile fabric were used to stabilize the roadway over the sewer trench. Trenches were over 20' deep and soils contained excessive moisture content.
- 5 Base repair performed on undisturbed areas adjacent to the work in an effort to provide stability to the adjacent pavement.

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VILLAGE OF HOWARD

F:\USERS\ENGINEER\11Project\11006 - Highway 29 improvements CTH FF & west to CTH U\Pay Request