



# City of Grand Island

Tuesday, September 10, 2013

Council Session

## Item G-9

**#2013-303 - Approving Change Order No. 1 for North Interceptor  
Phase I; Project No. 2012-S-6**

Staff Contact: John Collins, P.E. - Public Works Director

# **Council Agenda Memo**

**From:** Marvin Strong PE, Wastewater Treatment Plant Engineer

**Meeting:** September 10, 2013

**Subject:** Approving Change Order No. 1 for North Interceptor Phase I; Project No. 2012-S-6

**Item #'s:** G-9

**Presenter(s):** John Collins PE, Public Works Director

## **Background**

Public Works Staff in conjunction with the design engineer, Black & Veatch of Kansas City, Missouri have jointly developed multi-year replacement planning stages for the City of Grand Island's large diameter gravity sanitary sewer interceptor network. The current planned interceptor, entitled the "North Interceptor" will replace aged gravity sanitary sewer, reduce or eliminate current sewer pumping station(s), provide additional capacity for existing, and new growth areas of Grand Island.

The Wastewater Division of the Public Works Department advertised for bids for North Interceptor Phase I (Project 2012-S-6) on March 26, 2013 and opened bids on April 23, 2013.

On May 14, 2013, Resolution 2013-147, City Council awarded, Project 2012-S-6, North Interceptor Phase I to Merryman Excavation, Inc. of Woodstock, Illinois, in the amount of \$8,444,635.

## **Discussion**

Historically, concrete manholes have been installed in the cities gravity sewer collection infrastructure. Concrete manholes serve well for the intended use, and are versatile in configuration to meet an array of configurations that may be needed on a project. In design workshops staff reviewed parameters that influence the cost of constructing and maintaining a wastewater system, and quantify the major components (i.e., length/size of pipes, number of manholes, corrosive properties, infiltration) and concluded alternate material methodology should be considered. On May 14, 2013 City Staff, and Consulting Engineer, Black & Veatch for Kansas City of Missouri presented to council the recommendation in utilizing Fiberglass Reinforced Pipe (FRP) products for the large diameter gravity sewer collection system being installed in the multi-phased interceptor

project. City Council approved moving forward with Phase I of the interceptor construction, directing Public Works to use Polyvinyl Chloride Pipe (PVC) where possible and to use the fiberglass manholes if feasible.

Change Order No. 1 will supply and install fiberglass manhole(s) with Polyvinyl Chloride Pipe stubs. This will be completed in a factory controlled environment where each fiberglass/PVC manhole structure is fabricated monolithic, and delivered to site. A total of thirty-four (34) manholes will be constructed with fiberglass, and Polyvinyl Chloride (PVC) pipe materials.

#### CHANGE ORDER NO. 1

##### Change Order No. 1-1

Replace Precast Concrete manhole with Fiberglass Reinforced manholes.

<u>Bid Unit Description</u>	<u>Units / Ea.</u>	<u>Cost Differential</u>	<u>Total Price Change</u>
Four (4) feet Diameter	6.0	\$ 0.00	\$ 0.00
Five (5) feet Diameter	3.0	\$ 0.00	\$ 0.00
Eight (8) feet Diameter	17.0	\$ 0.00	\$ 0.00
Ten (10) feet Diameter	5.0	\$ 0.00	\$ 0.00
Twelve (12) feet Diameter	1.0	\$ 0.00	\$ 0.00
Eight (8) feet Diameter (Outside Drop)	1.0	\$ 0.00	\$ 0.00
Ten (10) feet Diameter (Outside Drop)	1.0	\$ 0.00	\$ 0.00
TOTAL COST FOR CO1-1			\$ 0.00
TOTAL SUMMARY OF COSTS			\$ 0.00

Change Order No. 1 will not extend the original construction completion date(s) of:

Substantial Completion: 210 calendar days, or January 8, 2014, and

Final Completion: 245 calendar days, or February 12, 2014.

## **Alternatives**

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

## **Recommendation**

City Administration recommends that the Council approve authorization to change from precast concrete manholes to fiberglass structured manholes as described in Change Order No. 1 with Merryman Excavation, Inc. of Woodstock, Illinois, for North Interceptor Phase I, Project 2012-S-6.

## **Sample Motion**

Move to approve the Mayor of the City of Grand Island, Nebraska authorized on behalf of the City of Grand Island to execute a Change Order No. 1 with Merryman Excavation, Inc. of Woodstock, Illinois in no additional claim for the contract amount or time.



**MEMORANDUM**

City of Grand Island, NE  
North Interceptor – Phase 1  
Change Order No. 1 – FRP Manholes

B&V Project 175144  
B&V File 80.1700  
August 30, 2013

To: Terry Brown

From: Richard Henderson

CC: Fred Tustin (COGI), Marvin Strong (COGI), Roger Scott (COGI), Kevin Meador (B&V),  
Tim Engemoen (B&V)

Terry,

Black & Veatch recommends issuing Change Order No. 1 which is a change from precast concrete manholes to fiberglass reinforced plastic (FRP) manholes in the amount of \$0.00 (Zero and 00/100 Dollars) and no change in contract time. Please note that this combination of materials was not presented as a bid alternative in the original bid documents and that Merryman Excavation's base bid amount of \$8,444,635 was accepted by City Council on May 14, 2013. In the base bid, materials for the pipe (greater than 36 inch) and manholes were Closed Profile Wall Polyvinyl Chloride (PVC) and precast concrete, respectively. A Notice of Award was issued by the City on May 15, 2013 and was also based on the Council's acceptance of the base bid. Subsequently, due to Black & Veatch's recommendation to City Council that they approve Bid Alternative A of the Fiberglass Reinforced Mortar Pipe (FRPM) and FRP manholes, it was decided between the City and Black & Veatch to approach Merryman Excavation for a cost to change the manhole materials to FRP. This Change Order No. 1 represents the costs, time, and material change as agreed to by Merryman Construction.

Richard Henderson  
Engineering Manager

**CITY OF GRAND ISLAND, NEBRASKA  
NORTH INTERCEPTOR – PHASE 1**

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**CITY PROJECT 2012-S-6  
BLACK & VEATCH PROJECT NO. 175144**

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**CHANGE ORDER NO. 1**

Change Order No. 1 covers the substitution of concrete manholes with fiberglass manholes.

Item CO1-1. Delete concrete manholes and replace with fiberglass manholes

This change involves the supply and installation of fiberglass reinforced plastic (FRP) manholes in lieu of the specified concrete manholes. Changes to the Contract documents include:

Section 00400, Page 5. Delete the Item Descriptions for Item Nos. 4.1 through 4.4 and Item Nos. 4.6 through 4.11. Replace with the following:

	<b>Item Description</b>
4.1	FRP Manhole Nos. 1B, 1D, 2D, 3D, 166A and 4 ft. Dia Manhole in Voss Road; 4 ft. Dia Manhole on spur line off of Sta. 64+19.95
4.2	FRP Manhole Nos. 25A, 26A, 27A
4.3	FRP Manhole Nos. 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 10A, 11A, 12A, 13A, 15A, 16A, 18A, 19A, 23A
4.4	FRP Manhole Nos. 9A, 20A, 21A, 22A, 24A
4.6	FRP Drop Manhole No. 17A
4.7	FRP Drop Manhole No. 14A
4.8	Additional Depth FRP Manhole (Standard and Drop) Nos. 1B, 1D, 2D, 3D, 166A and 4 ft. Dia Manhole in Voss Road; 4 ft. Dia Manhole on spur line off of Sta. 64+19.95
4.9	Additional Depth FRP Manhole (Standard and Drop) Nos. 25A, 26A, 27A
4.10	Additional Depth FRP Manhole (Standard and Drop) Nos. 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 10A, 11A, 12A, 13A, 15A, 16A, 17A, 18A, 19A, 23A
4.11	Additional Depth FRP Manhole (Standard and Drop) Nos. 9A, 14A, 20A, 21A, 22A, 24A

The same item descriptions shall be changed in Section 01025; Paragraphs 8.01, 8.02, 8.03, 8.04, 8.06, 8.07, 8.08, 8.09, 8.10, 8.11 and any reference to ‘concrete’ within the measurement and payment descriptions shall be changed to ‘FRP’.

8/30/2013

CO1-1

**CITY OF GRAND ISLAND, NEBRASKA  
NORTH INTERCEPTOR – PHASE 1**

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**CITY PROJECT 2012-S-6  
BLACK & VEATCH PROJECT NO. 175144**

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**SUMMARY**

**CHANGE ORDER NO. 1**

The Contract Price shall be modified as follows as a result of the changes described by this modification request. Additions to the Contract Price are indicated by a "+" in front of the amount, deductions by a "-".

<u>Effect on Contract Price</u>		Increase/Decrease In Contract Price (+/-)
<u>Item</u>	<u>Description</u>	
CO1-1	Substitutue FRP manholes for concrete manholes	0.00

NET CHANGE IN CONTRACT PRICE 0.00

BID AMOUNT OF ORIGINAL CONTRACT	\$8,444,635.00
PREVIOUS CHANGE ORDER ADJUSTMENTS	+ 0.00
CURRENT CONTRACT AMOUNT	\$8,444,635.00

CHANGE ORDER NO. 1 0.00

ADJUSTED CONTRACT AMOUNT \$8,444,635.00

Effect on Contract Time

CO1-1	No additional time given for Contract	
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8/30/2013

CO1-2

No additional claims shall be made for changes in Contract Time arising from these work items.

This change order includes all costs, direct, indirect, and consequential, and all changes in Contract Time arising from the work included in the items for Change Order No. 1. No additional claims shall be made for changes in Contract Price or Contract Time arising from these work items.

All other provisions of the contract remain unchanged.

Agreed to this \_\_\_\_\_ day of \_\_\_\_\_, 2013

Recommended:  
Black & Veatch Corporation

Approved:  
City of Grand Island

By: \_\_\_\_\_  
Engineering Manager

By: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Approved:  
Merryman Excavation, Incorporated

By: \_\_\_\_\_

Date: \_\_\_\_\_

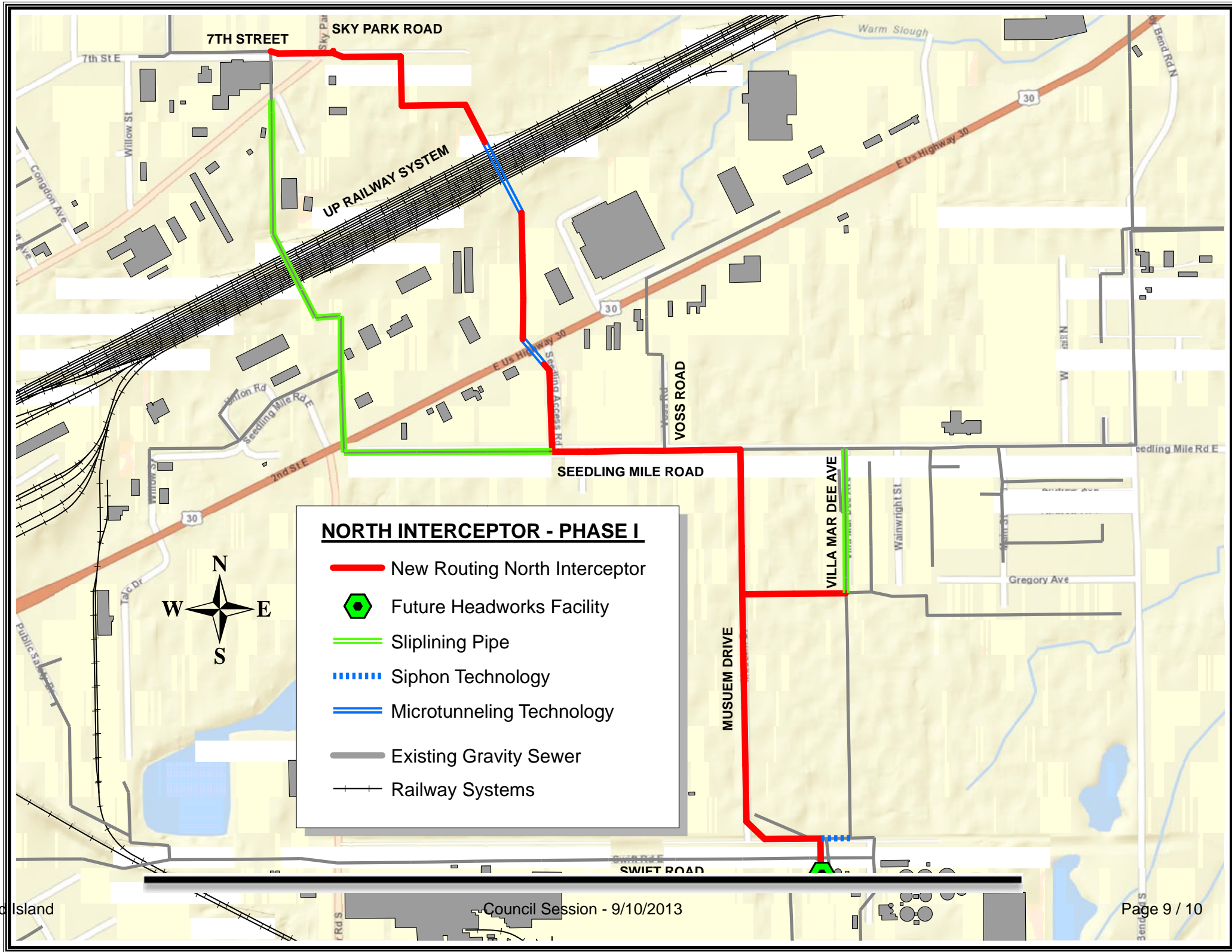
Approved as to Form \_\_\_\_\_

September 10, 2013      City Attorney

8/30/2013

CO1-3





RESOLUTION 2013-303

WHEREAS, On May 14, 2013, Resolution 2013-147, City Council awarded, Project 2012-S-6, North Interceptor Phase I to Merryman Excavation, Inc. of Woodstock, Illinois, in the amount of \$8,444,635; and

WHEREAS, Change Order No. 1 changes from precast concrete manholes to fiberglass structured manholes in no additional claim for the contract amount or time.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that authorization to proceed with scope described in Change Order No. 1 with Merryman Excavation, Inc. of Woodstock, Illinois is hereby approved for a current contract amount of \$8,444,635; and

BE IT FURTHER RESOLVED, that the Mayor is hereby authorized and directed to execute such Change Order No. 1, North Interceptor Phase I, Project 2012-S-6 on behalf of the City of Grand Island.

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Adopted by the City Council of the City of Grand Island, Nebraska, September 10, 2013.

\_\_\_\_\_  
Jay Vavricek, Mayor

Attest:

\_\_\_\_\_  
RaNae Edwards, City Clerk

Approved as to Form	☐ _____
September 10, 2013	☐ City Attorney