



CITY of NOVI CITY COUNCIL

Agenda Item C
March 3, 2008

SUBJECT: Approval of contract Change Order No. 1 for the Hudson Sanitary Lift Station Improvement project in the amount of \$11,258.

SUBMITTING DEPARTMENT: Engineering *RA*

CITY MANAGER APPROVAL: *AW*

EXPENDITURE REQUIRED	\$11,258
AMOUNT INCLUDED IN CIP & ADDITIONAL AMOUNT PREVIOUSLY APPROVED BY COUNCIL	\$159,715 (includes previous expenditures of \$28,575 for engineering consultant, \$33,440 for pump procurement, and \$97,700 for construction contract).
ADDITIONAL AMOUNT REQUIRED	\$11,258 (from Water & Sewer Fund)
LINE ITEM NUMBER	592-592.00-159.801

BACKGROUND INFORMATION:

Several improvements to the Hudson sanitary lift station (located on the east side of Meadowbrook Road just north of I-96) were identified as a result of the sanitary sewer capacity, management, operations and maintenance (CMOM) project in 2006/2007. The Hudson Lift Station Improvement project is currently nearing construction completion and entails pump replacement along with rehabilitation of wet well components and electrical system upgrades.

Change Order No. 1 is presented in Stantec's February 11, 2008 letter (attached) and includes the following work to be added to the contract:

- Valve vault drain piping to meet MDEQ requirements;
- Revised electrical work, per City of Novi electrical inspector's requirements;
- Electrical service disconnect to enhance system safety; and,
- Televising the influent sewer to determine its condition and evaluate remedial actions, if any.

Change Order No. 1 exceeds 10% of the contract value; therefore it must be approved by City Council.

RECOMMENDED ACTION: Approval of contract Change Order No. 1 for the Hudson Sanitary Lift Station Improvement project in the amount of \$11,258.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Capello				
Council Member Crawford				
Council Member Gatt				

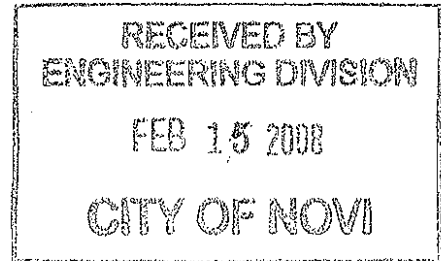
	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				



Stantec Consulting Michigan Inc.
3959 Research Park Drive
Ann Arbor MI 48108-2216
Tel: (734) 761-1010
Fax: (734) 761-1200

Stantec

February 11, 2008
File: 2075105200



City of Novi Engineering Department
45175 W Ten Mile Road
Novi, MI 48375-5683

**Attention: Rob Hayes, P.E.
City Engineer**

Dear Mr. Hayes,

**Reference: Hudson Sanitary Pump Station Improvements
Change Order #1**

Attached are three copies of Change Order #1 for the Hudson Sanitary Pump Station Improvements. This change order includes three separate items totaling an \$11,258.00 increase in the contract amount. Details of each item included in the change order are described below.

Item 1 – Bulletin 1 Work

Bulletin 1 detailed two changes to the contract:

1. Addition of valve vault drain piping to below the wetwell low water level per Michigan Department of Environmental Quality permit requirements. The cost for this work was approximately \$2,255.
2. Revised electrical work to meet the requirements of the City of Novi's electrical inspector. The actual electrical revisions resulted in a credit but this credit was offset by charges for one additional week of bypass pumping. The total cost for this work was approximately \$1,065.

The total additional cost associated with Bulletin 1, including contractor markup, is \$3,486.00

Item 2 – Addition of an Electrical Disconnect for the Control Enclosure

During their review of the electrical system, the contractor suggested that an electrical disconnect could be added at the control enclosure to provide a single point for electrical lockout/tagout for both the primary and backup power sources to the control panel. Following discussion it was determined that this was an option that City of Novi staff wanted to add to the project.

The total additional cost for the addition of the electrical disconnect, including Contractor markup, is \$999.00.

Stantec

February 11, 2008
Rob Hayes, P.E.
City Engineer
Page 2 of 2

**Reference: Hudson Sanitary Pump Station Improvements
Change Order #1**

Item 3 – Bulletin #2 Work

Bulletin 2 detailed the addition to the contract of video televising of the 21-inch influent sewer to the wet well. During demolition and new pump installation, it was noted that cracks were visible in this sewer near the outlet to the wet well. Per discussion with City of Novi staff, it is desirable at this time to televise this sewer, assess the overall condition and determine what, if any remedial actions are necessary.

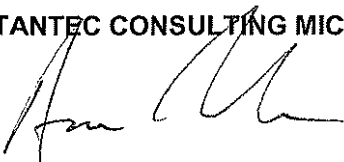
The televising work will be subcontracted to Doetsch, Inc., which has performed similar work for the City. In order to perform the televising, the contractor will need to perform additional bypass pumping and make additional use of the man basket that was rented by the mechanical contractor for wetwell access.

The total additional cost associated with Bulletin 2, including Contractor markup, is \$6,773.00.

Supporting documentation from Reliance Building Company and its subcontractors for each item are attached to each copy of the Change Order. Please review the above summary and call me if you have any questions regarding this Change Order #1. Following your review and approval by the City of Novi, please sign and date all three (3) copies, retain one (1) copy for City records and return two (2) copies to Stantec. Stantec will forward an executed copy to Reliance Building Company.

Sincerely,

STANTEC CONSULTING MICHIGAN INC.



Aaron Uranga, P.E.
Senior Project Engineer
Tel: (734) 214-1863
Fax: (734) 761-1200
aaron.uranga@stantec.com

Attachment: Change Order 1 (3 copies)

c. Aaron Staup, City of Novi
George Tsakoff, Stantec
File



Stantec

3959 Research Park Drive
Ann Arbor, Michigan 48108-2219
734-761-1010
734-761-1200 (Fax)

CONTRACT CHANGE ORDER

No: 1

To: Reliance Building Company Date: January 31, 2008 Project No: 2075105200

Contract: Hudson Sanitary Pump Station Improvements Owner: City of Novi

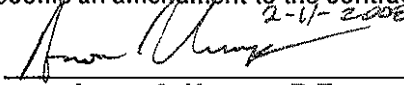
Location: City of Novi, Michigan

You are hereby requested to comply with the following changes from the contract plans & specifications:

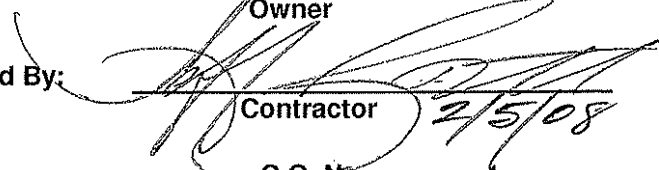
Item No.	Description of Changes - Quantities, Units, Unit Prices, Change in Completion Schedule, Etc.	Decrease in Contract Price	Increase in Contract Price
1	RFC No. 02R2 - Bulletin 1		\$ 3,486.00
2	RFC No. 03 - Control Enclosure Disconnect		\$ 999.00
3	RFC No. 04 - Bulletin 2		\$ 6,773.00
Change in Contract Price Due to this Change Order:			
Total Decrease		\$ -	
Total Increase			\$ 11,258.00
Net Increase in Contract Price			\$ 11,258.00
Original Contract Price			\$ 97,700.00
Total Net Change by Change Order's to date			\$ -
Total Amount of Contract Prior to this Change Order			\$ 97,700.00
Net Addition or Deduction this Change Order No. 1			\$ 11,258.00
Net Amount of Contract to Date			\$ 108,958.00

Contract completion time is increased by 7 calendar days.

This document shall become an amendment to the contract and all provisions of the contract will apply hereto.

Recommended by: 
Aaron A. Uranga, P.E.

Approved By: _____
Owner

Accepted By: 
Contractor 2/5/08
C.O. No. 1



RECEIVED

JAN 28 2008

STANTEC CONSULTING

Date: January 25, 2008

RFC No 02R2

REQUEST FOR CHANGE ORDER

TO: Stantec Consulting Michigan Inc. Hudson Sanitary Pump Station Improvements
3959 Research Park Drive 26670 Meadowbrook Road
Ann Arbor, MI 48108-2219 Novi, Michigan

ATTN: Aaron Uranga, PE

Re: Bulletin No 1: Revised

Please review the following breakdown of the items listed in Bulletin No 1:

Table with 2 columns: Item description and Amount. Includes items like Bulletin No 1, Item 1 (\$2,255.00), Bypass Pumping (\$2,300.00), and Total Add to Contract Price (\$3,486.00).

The additional time required for this change in work scope is 7 days from approval of this work. If this is acceptable, please issue a change. Should you have any questions, please call.

Very truly yours,

Handwritten signature of Jeff Robinette
Jeff Robinette
Senior Project Manager

Platinum Mechanical, Inc.

Extra Work Authorization

Job Name: Hudson Sanitary Pump Station Improvements
 Job Number: 741

Date: January 4, 2008

XI

Quotation Description:

Bulletin #1. The removal and disposal of the 4" flap valve for drain. Add 4" drop pipe supported with stainless steel hardware. The drop pipe will be terminated to approximately 871.00, as shown on sketch. This work will need to commence prior to the installation of the 8" DI discharge pipe.

Labor

	%	Cost/hr	Hrs	Total
Shop Journeyman				\$0.00
Shop Foreman				\$0.00
General Foreman				\$0.00
Overtime Shop				\$0.00
Double Time Shop				\$0.00
Tax (6%)	6%			\$0.00
Field Journeyman		\$75.50	5	\$377.50
Field Foreman		\$77.50	5	\$387.50
General Foreman		\$78.50	2	\$117.75
Overtime Field				\$0.00
Double Time Field				\$0.00
Detailing				\$0.00
				\$0.00

Total Labor Costs \$882.75

Subcontractors

OH&P (enter %)	\$0.00
Total Subcontractors Costs	<u>\$0.00</u>

SUMMARY

LABOR	\$882.75
MATERIAL	\$603.46
OTHER DIRECT COSTS	\$474.78
OH&P (enter %) 15%	\$294.15
SUBCONTRACTORS	\$0.00

Material

Purchased Materials	\$569.30
Duct & Fittings	\$0.00
Misc. Materials	\$0.00
Tax (6%) 6%	\$34.16
Total Material Costs	<u>\$603.46</u>

TOTAL PRICE

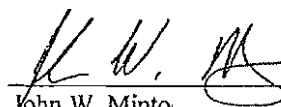
\$2,255.13

The quote is good for 30 days. This extra work will require a job schedule extension of 2 days.

Other Direct Costs

Bond Costs	\$0.00
Fuel	
Rental Equipment (includes 6% tax)	\$325.00
Trucking	\$0.00
Truck- (\$140.00 per day)	\$140.00
Tools (\$.85 per field hr)	\$9.78
Travel	\$0.00
Other	\$0.00
Total Other Direct Costs	<u>\$474.78</u>

Respectfully submitted:


 John W. Minto
 Platinum Mechanical

Accepted by:

Date:

Change Estimate Summary

Quotation to: **Reliance Bldg. Co**
Address: **26200 Town Center Dr.**
Address: **Suite 195**
City, ST, ZIP: **Novi, MI 48375**
Attention: **Jeff Robinette**
Job Name: **Hudson Sanitary Pump Station**
Reference: **Bulletin 1 Credits**

Date: **01/07/08**
Change Order Number: **Bulletin 1**
Job Number: **105977**

A.	Material and equipment:	\$ 2,374.18	
B.	Sales tax:	\$ 142.45	
C.	Direct labor:	\$ 626.67	
D.	Indirect costs:	\$	
E.	Equipment and tools:	\$	
F.	Subtotal:		\$ 3,143.30
G.	Overhead at 10 % of line F:	\$ 314.33	
H.	Subcontracts:	\$	
I.	Overhead at % of line H:	\$	
J.	Subtotal		\$ 3,457.63
K.	Profit at 5 % of line J:	\$ 172.88	
L.	Subtotal:		\$ 3,630.51
M.	Bond premium at % of line L:	\$	
N.	Service reserve at % of line L:	\$	
O.	Total cost estimate, lines L thru N:	Deduct	\$ 3,630.51
P.	Exclusions from this estimate: Any work other than detailed in Bulletin 1 dated 01/04/08, E1.01, & E2.01		
Q.	<input checked="" type="checkbox"/> This quotation is valid for 30 days.		
R.	<input checked="" type="checkbox"/> We require 10 days extension of the contract time.		
S.	We are proceeding with this work per your authorization.		
T.	<input checked="" type="checkbox"/> Please forward your confirming change order.		

Signed by _____

Project Manager

Change Estimate Summary

Quotation to: **Reliance Bldg. Co**

Date: **01/07/08**

Address: **26200 Town Center Dr.**

Change Order Number: **Bulletin 1**

Address: **Suite 195**

Job Number: **105977**

City, ST, ZIP: **Novi, MI 48375**

Attention: **Jeff Robinette**

Job Name: **Hudson Sanitary Pump Station**

Reference: **Bulletin 1 Adds**

A.	Material and equipment:	\$ 1,774.18	
B.	Sales tax:	\$ 106.45	
C.	Direct labor:	\$ 626.67	
D.	Indirect costs:	\$	
E.	Equipment and tools:	\$	
F.	Subtotal:		\$ 2,507.30
G.	Overhead at 10 % of line F:	\$ 250.73	
H.	Subcontracts:	\$	
I.	Overhead at % of line H:	\$	
J.	Subtotal		\$ 2,758.03
K.	Profit at 5 % of line J:	\$ 137.90	
L.	Subtotal:		\$ 2,895.93
M.	Bond premium at % of line L:	\$	
N.	Service reserve at % of line L:	\$	
O.	Total cost estimate, lines L thru N:	Add	\$ 2,895.93
P.	Exclusions from this estimate: Any work other than described above.		

- Q. This quotation is valid for 30 days.
- R. We require 10 days extension of the contract time.
- S. We are proceeding with this work per your authorization.
- T. Please forward your confirming change order.

Signed by _____

Project Manager

Main Office
1350 Piedmont
Troy, MI 48083
Phone (248) 526-0009 Fax (248) 526-0010



A Patriot Pumps Company

October 3, 2007

Attention: Estimator

We are providing the following quotation for the **Improvements to the Hudson Sanitary Pump Station** as specified by the engineer. The engineer has indicated that the flow is 1920 GPM maximum @ 50' of TDH. Furthermore, the engineer has indicated that the flows can surcharge 5' from the bottom of the manhole. To accommodate the specified flow (1920gpm), we are offering (1) one Submersible electric trash pump rated 35 HP (47 FLA) as the primary unit running continuously. For redundancy, we are offering (1) one Thompson 8JSC sound attenuated diesel centrifugal pump (1920 GPM). The backup pump will operate automatically using our Thompson auto-float system. The on off float level will be established by you. We will also provide a remote monitoring system as specified. The discharge lines from each pump will be piped into a manifold and continue into an individual 8" line running to the existing wet tap. The cost for this bypass is as follows:

Equipment Listed above	\$ 2,300.00 per week
	\$ 7,200.00 per month
Transportation boom truck	\$ 400.00 r/t
Setup with fusion machine	\$ 2,320.00
System Removal	\$ 980.00

You will be responsible for having an electrician bring power for the submersible pump into our control panel. We will provide you with 200' of cable with our control box. If required, you will need to provide the conduit for the wire (we provide) running to the suction manhole. As discussed, you will need to remove the manhole cover allowing for full access to the 4" manhole.

Thompson will provide mechanics to install the bypasses as needed. A Thompson supervisor will be on site to work with you, addressing any and all concerns that may arise during the set-up of the bypass.

The Thompson 8 JSC 8" pumps are fully automatic self-priming trash pumps capable of handling solids to three inches in diameter. The Thompson pumps prime automatically from dry by forcing air through a venturi creating a vacuum on the suction side of the pump. Furthermore, the pumps can run dry for extended periods of time without doing damage to the seals. This is done by immersing our seals in an oil bath causing constant lubrication.

Thompson will be responsible for the above mentioned, if there are any other lines, flows, crossings, permits, signage or details not discussed in this proposal it is understood that the contractor will assume full responsibility.

If we can be of further assistance, please call us at 248-526-0009.

Thank You,

Brian Lenaghan
Thompson Pump Midwest