

CONTRACT CHANGE ORDER FORM

DEPARTMENT

Contract between the City of Bismarck and **PKG Contracting, INC.**

Contract Number: **2015-58** Change Order Number: **G-5**

Project/Subproject: **SANSWRUTIL.TFILTERS.DESIGNCONST**

Original Contract Amt: **\$16,469,000**

Project Description: **Bismarck WWTP Trickling Filters – General Construction**

Previous Contract Amount: **\$16,505,475**

Change Order Amount: **\$43,342**

Original Contract Date: **July 15, 2017** Change in Contract Timeline: **July 16, 2017**

Within Project Scope: Y / N*

**If not within project scope, attach description of change in scope for Board approval.*

Within Project Funding: Y / N**

***If not within project funding, attach revised Project Budget for Board approval.*

Type of Change Order

Non Design-related Change Order: These change orders include unforeseen conditions, code-related issues, and building inspector changes.

Design-related Change Order: These change orders include unforeseen conditions that affect the appearance, layout, functionality, dimensions, and/or quality of the project.

Emergency Field Condition Change Orders: These change orders include any condition that causes an emergency situation where safety or other immediate losses may occur.

Other: (describe) _____

Project Manager Signature: (<\$15,000) _____
Date

Department Head Signature:(<\$25,000) _____
Date

ADMINISTRATION

City Administrator Signature: (<\$50,000) _____
Date

Add to Commission Consent Agenda

COMMISSION APPROVAL

Commission Approval Date: _____

Attach minutes for Commission Approval

FISCAL

Comments: _____
Signature Date Completed

TO ALL DEPARTMENTS: Please attach a copy of the change order

Michelle Klose

From: [REDACTED]
Sent: Wednesday, June 08, 2016 11:00 AM
To: Michelle Klose
Subject: BWWTf CO-G-05 - Helical Piers

This is a follow up to yesterday's discussion to make sure you have the language needed for CO justification. See below:

The general contract was set up where the contractor designed the pier system based on soil boring and field testing of the actual soil conditions. A bid item for additional pier installation is provided on the bid form and described in the in the In the Special Provisions Section 1.20. Additional pier costs are controlled by the contract. The contractor and his designer recognized that 65 helical piers were not achieving the required torque and through field investigation determined the pier as designed would need to extend to the gravel strata located an additional 40' deeper. This would have required an additional 2,600 LF of helical pier at the bid price of \$40/LF or a total of \$104,000. The contractor and his designer opted to use a different helical design to minimize the additional pier depth. The modified design required installation of a larger flight diameter and a substantially less total length of 650 LF. The contractor is asking for the amount of \$43,342 in lieu of the prescribed bid item. It is apparent that the contractor was able to actually save the City money by installing the additional piers using an alternate design.

Kenneth J. Weber PE (ND, MN,SD)
Senior Project Manager
Advanced Engineering and
Environmental Services, Inc. (AE2S)
1815 Schafer St., Suite 301
Bismarck, ND 58501

[REDACTED]
www.ae2s.com

Voice: 701 [REDACTED]
Cell: 701 [REDACTED]
Fax: 701 [REDACTED]

Change Order

No. G-05

Date of Issuance: June 3, 2016

Effective Date: May 10, 2016

Project: <u>Bismarck WWTF - Trickling Filter Improvements</u>	Owner: <u>City of Bismarck, ND</u>	Owner's Contract No.:
Contract: <u>General Construction</u>	Date of Contract: <u>August 28, 2015</u>	
Contractor: <u>PKG Contracting, Inc.</u>	Engineer's Project No.: <u>P00501-2007-017-060</u>	

The Contract Documents are modified as follows upon execution of this Change Order:

Description of Change

The general construction contract was set up such that the general contractor designed a helical pier system for the Trickling Filter, based on soil boring and field testing of actual soil conditions. A unit price bid item for additional helical pier length installation was provided on the bid form and described in the Special Provisions Section 1.20. Additional pier costs are controlled by the contract. The contractor and his designer recognized that 65 helical piers were not achieving the required torque, relating to load carrying capacity, and through field investigation determined the piers, as designed, would need to extend to the gravel strata located an additional 40' deeper. This would have required an additional 2,600 LF (65 x 40') of helical pier footage, at the bid price of \$40/LF, for a total unit price add of \$104,000.

The contractor and his designer opted to use an alternate design method to minimize the additional helical pier depth and corresponding footage. The modified design requires installation of additional 10' helical extensions, with larger flight diameters than the original flights, and a substantially less total additional footage of 650 LF (65 x 10').

Item	Description	Cost Adjustment
PCO-11	<u>Additional Helical Pier Lengths</u>	<u>\$43,342.00</u>
Total Net Change: CO G-05		<u>\$43,342.00</u>

Attachments: PKG PCO-11

CHANGE IN CONTRACT PRICE:		CHANGE IN CONTRACT TIMES:	
Original Contract Price:		Original Contract Times:	<input type="checkbox"/> Working days <input type="checkbox"/> Calendar days
\$ <u>16,469,000.00</u>		Substantial completion (days or date):	<u>May 31, 2017</u>
		Ready for final payment (days or date):	<u>July 15, 2017</u>
Increase from previously approved Change Orders		Increase from previously approved Change Orders	
No. 0 to No. 2:	<u>\$36,475.00</u>	No. 0 to No. 1:	
		Substantial completion (days):	<u>1</u>
		Ready for final payment (days):	<u>1</u>
Contract with Increase from previously approved Change Orders		Contract Times prior to this Change Order:	
\$ \$ <u>16,505,475.00</u>		Substantial completion (days or date):	<u>June 1, 2017</u>
		Ready for final payment (days or date):	<u>July 16, 2017</u>
Increase of this Change Order		[Increase] [Decrease] Time of this Change Order:	
\$ <u>\$43,342.00</u>		Substantial completion (days or date):	<u>0</u>
		Ready for final payment (days or date):	<u>0</u>
Contract Price incorporating this Change Order:		Contract Times with all approved Change Orders:	
\$ \$ <u>16,548,817.00</u>		Substantial completion (days or date):	<u>June 1, 2017</u>
		Ready for final payment (days or date):	<u>July 16, 2017</u>

RECOMMENDED:
 By: [Signature]
 Engineer (Authorized Signature)
 Date: 6/3/2016
 Approved by Funding Agency (if applicable): _____

ACCEPTED:
 By: _____
 Owner (Authorized Signature)
 Date: _____

ACCEPTED:
 By: [Signature]
 Contractor (Authorized Signature)
 Date: 6-7-16
 Date: _____

PKG CONTRACTING, INC.

4301 SOUTH UNIVERSITY DRIVE, FARGO, ND 58104

PHONE: (701) 232-3878 FAX: (701) 232-3935

e-mail: admin@pkg-inc.com

5/09/16

Mr. Nick Thompson

AE2S, Inc.
1815 Schafer Street, Suite 301
Bismarck, ND 58501

RE: Bismarck WWTF Trickling Filter
Improvements / Bismarck, ND
P00501-2007-017-060

SUBJECT: Change Order Proposal

PCO-11

Dear Mr. Thompson

Below is a change order proposal for modifications to the contract drawings.

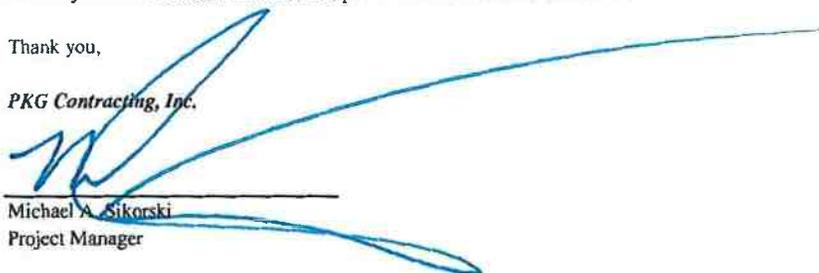
PCO-11 Costs below are associated with a change in site conditions, as the soils in the NE quadrant of the Trickling Filter did not achieve the required torque as required by design. We could have achieved torque by adding an additional 40 foot of extension to each pier, however it was determined to be more cost effective to install a double 16" helical flighted extension.

A.)	1. Labor / Burden / Lodging / Per Diem	1,960.00	
	2. Material (including tax):	32,108.15	
	3. Equipment: (Fuel, Oil, & Other)	1,050.00	
	4. 15% Fee (Overhead & Profit on items A.1,2,3)	5,267.72	
	<i>Subtotal Section A</i>		\$40,385.87
B.)	1. Subcontractor:	990.00	
	2. 5% Fee (Overhead & Profit on item B.1)	49.50	
	<i>Subtotal Section B</i>		\$1,039.50
C.)	Supplemental Costs:		
	1. Small Tools/Equip. & Expendables (10% of A.1)	196.00	
	2. Safety Expense (2% of A.1)	39.20	
	3. Temporary Construction Facilities (2% of Section A, B & C.1)	832.43	
	4. Bonds & Insurance Premium (2% of Section A, B, C1., C.2)	849.08	
	<i>Subtotal Section C</i>		\$1,916.70
	TOTAL CHANGE REQUEST		\$43,342

Should you need additional information, please do not hesitate to contact me.

Thank you,

PKG Contracting, Inc.


Michael A. Sikorski
Project Manager

cc: 1505 PCO file
attachments

PKG CONTRACTING, INC.

4301 SOUTH UNIVERSITY DRIVE • FARGO, ND 58104 • PHONE (701) 232-3878 • FAX: (701) 232-3935 • www.pkg-inc.com

HEUCAL FIER PRO wkst

MA 32,108.15

SU / NTH 990

LA JUST UNDER DAY & 1/2
TESTING, EXPLORING, EXTEND OF SADA 20

28 hrs x = \$1960

EQ 1.4 x \$750 = \$1050



Pier Tech Systems, LLC

17813 Edison Ave.
Suite 100
Chesterfield, MO. 63005

Phone 636-536-5007
Fax 636-536-5008
www.piertech.com

Invoice

Date	Invoice #
4/28/2016	6526

Bill To
PKG Contracting, Inc. 4301 South University Drive Fargo, ND 58104

Ship To
PKG Contracting C/O Bismark WWTF 601 London Ave. Bismarck, ND 58504

PierTech P.O.	Terms	Rep	Customer P.O. No.
6288	Net 30	MW	

Item	Description	Order...	Backorder	Invoiced	U/M	Prev. Inv.	Unit Rate	Extended ...
Custom Par...	RS 4.5" x .337 x 10', 16 x 16 x .5 Ft	65		65		0	431.75	28,063.75
FREIGHT	Ext Galv FREIGHT	1		1		0	2,084.75	2,084.75

w/tax 32,108.15

Total	\$30,148.50
Payments/Credits	\$0.00
Balance Due	\$30,148.50



NTI[™]
 NORTHERN
 TECHNOLOGIES, LLC

3522 4th Avenue South
 Fargo, ND 58103
 P: 701.232.1822 F: 701.232.1864

www.NTigeo.com

INVOICE

Mike Sikorski
 PKG Contracting, Inc.
 4301 S University Drive
 Fargo, ND 58104

March 31, 2016
 Project No: 15.13339.701
 Invoice No: 17318

*BRA
 4/7/16*

Total Budget 4,500.00

Project 15.13339.701 Bismarck WWTF - Design Review

Professional Services from March 01, 2016 to March 31, 2016

Professional Personnel

	Hours	Rate	Amount
Principal	5.00	198.00	990.00
Totals	5.00		990.00
Total Labor			990.00

TOTAL THIS INVOICE \$990.00

	Current	Prior	Total Billings
Project Billings	990.00	5,514.00	6,504.00

*1505
 07715
 SW*

RECEIVED
 APR 09 2016
 PKG Contracting, Inc.

*ENGINEERING
 REVIEW OF NE Quad.*