

Project: 3873.1
City of Minot,
North Dakota
Change Order
No. 4




Date of Issuance: <u>October 24, 2015</u>		Effective Date: <u>October 24, 2015</u>
Project: 16Th Ave, 46th St, 14Th Ave Rebuild & 16th Ave Water line	Owner: City of Minot	Owner's Contract No.: 3873.1
Contract: 16Th Ave, 46th St, 14Th Ave Rebuild & 16th Ave Water line		Date of Contract: 9 April 2015
Contractor: Wagner Construction		Engineer's Project No. R14090.01

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

Item #1: The area on 16th Ave SE behind the curb and gutter from Sta. 26+50 to 27+60 Lt and behind the sidewalk from Sta. 26+50 to 27+60 Rt required that the water drain from west to east, across the existing driveways before existing to the roadway drainage. Due to safety and future maintain concerns of water freezing on the driveways, trench drains are to be installed across the driveways at Sta. 26+91.4 Lt and Sta. 27+72.96 Lt as well as across the sidewalk prior to the driveway at Sta. 27+73.31 Rt. Additional grading is to be completed to drain water to the project limits. The additional costs include: 64 LF of Trench Drain at the accepted unit price of \$264.50, Grading & Excavation at the accepted unit price of \$1,250.00/LS, and 10 LF of Saw Cutting at the accepted unit price of \$5.00/LF. Net effect of this revision is an increase of \$18,228.00 to the contract amount.

Attachments: (List documents supporting change): Grading Exhibit, Submitted Prices/Work Orders

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES:
Original Contract Price:	Original Contract Times: <input type="checkbox"/> Working days <input checked="" type="checkbox"/> Calendar date
<u>\$2,103,067.00</u>	Substantial completion (days or date): <u>October 16, 2015</u>
	Ready for final payment (days or date): <u>November 2, 2015</u>
[Increase] [Decrease] from previously approved Change Orders No. <u>1</u> to No. <u>3</u> :	[Increase] [Decrease] from previously approved Change Orders No. <u>1</u> to No. <u>3</u> :
<u>\$70,373.00</u>	Substantial completion (days): <u>12 Calendar Days</u>
	Ready for final payment (days): <u>12 Calendar Days</u>
Contract Price prior to this Change Order:	Contract Times prior to this Change Order:
<u>\$2,173,440.00</u>	Substantial completion (days or date): <u>October 28, 2015</u>
	Ready for final payment (days or date): <u>November 14, 2015</u>
[Increase] of this Change Order:	[Increase] [Decrease] of this Change Order:
<u>\$18,228.00</u>	Substantial completion (days or date): <u>2 Calendar Days</u>
	Ready for final payment (days or date): <u>2 Calendar Days</u>
Contract Price incorporating this Change Order:	Contract Times with all approved Change Orders:
<u>\$2,191,668.00</u>	Substantial completion (days or date): <u>October 30, 2015</u>
	Ready for final payment (days or date): <u>November 16, 2015</u>

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: 	By: 	By: 
Engineer (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Date: <u>11/3/15</u>	Date: <u>11/5/15</u>	Date: <u>11/03/15</u>
Approved by Funding Agency (if applicable): _____	Date: _____	



Work Change Directive/Work Order

Engineer/Owner
Wagner Project Number/Name
Date:
Work Change Directive Number:

Ackerman-Estvold/City of Minot
16th Rebuild (Minot#3873.1)
October 7, 2015
Wagner CO#18 (Revised)


Description of Added/ Modified Work:

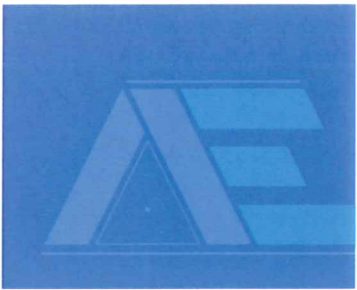
Proposed Trench Drain to be installed at driveways located at 46th St Se & 16th Ave Se. There will also be an additional 6' installed at the sidewalk.

Trench Drain is a 12" Solid Plate provided by Neenah Foundry (Plate Number R4990CX)

The proposed plates come in (2' Sections). The length of the trench drain was recalculated to be 58' for both driveways

Submitted By		Work Requested By:			
Matt Guerton		Ackerman-Estvold			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
Description Materials:		Qty.	Units	Unit Price	Total
Driveway Trench Drain		64.0	LF	\$264.50	\$16,928.00
Additional Grading & Excavation		1.0	LS	\$1,250.00	\$1,250.00
Saw Cutting		10.00	LF	\$5.00	\$50.00
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
Total:					\$18,228.00

Wagner Rep.  Date: 10/07/15 Owner Rep: Date:



1907 17th Street Southeast
Minot, ND 58701
701.837.8737
www.ackerman-estvold.com

MEMORANDUM

To: Ben Cofell, City of Minot

From: Ackerman-Estvold

Date: October 6, 2015

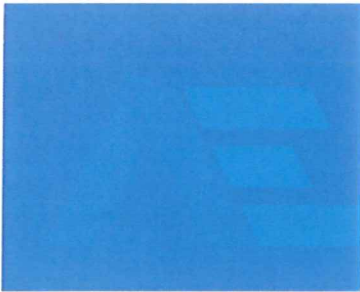
Re: Change Order #4 – Independent Cost Estimate
Project 3873.1 - 16th Ave, 46th St and 14th Ave SE Rebuild

This independent cost analysis is for the addition of trench drains in two driveways and one sidewalk to improve the drainage of water from behind the new curb and gutter or sidewalk. The area on 16th Ave SE behind the curb and gutter from Sta. 26+50 to 27+60 Lt and behind the sidewalk from Sta. 26+50 to 27+60 Rt required that the water drain from west to east, across the existing driveways before existing to the roadway drainage. Due to safety and future maintain concerns of water freezing on the driveways, trench drains are to be installed across the driveways at Sta. 26+91.4 Lt and Sta. 27+72.96 Lt as well as across the sidewalk prior to the driveway at Sta. 27+73.31 Rt. Additional grading is to be completed to drain water to the project limits.

The estimated quantity of trench drain is 64 LF. Since trench drains are uncommon and difficult to price, an alternative would be to install a storm drain system consisting of 15" RCP, end sections, and storm sewer structures. The estimated cost of the alternative option is as follows:

- 200 to 350 LF of 15" RCP at estimate unit price of \$80/LF
- 1 to 2 EA of Catch Basin Manholes at contract unit price of \$4,000.00/EA
- 1 to 2 EA of 15" RCP end section at estimated unit price of \$1,000/EA
- Removals (C&G, pavement, and sidewalk) at estimated unit price of \$1,000/LS

The estimated unit prices are based on current contract bid items. The total estimated cost to install a storm drain system would range from \$22,000 to \$39,000. The submitted price for the trench drains is expected to be less; otherwise further consideration should be given to the storm drain option.



1907 17th Street Southeast
Minot, ND 58701
701.837.8737
www.ackerman-estvold.com

October 24, 2015

Mr. Ben Cofell
City of Minot
1025 31st St. SE
Minot, ND 58701

**RE: Change Order #4- Cost Justification for Trench Drain
Project 3873.1 - 16th Ave, 46th St and 14th Ave SE Rebuild**

This cost justification analysis includes the addition of trench drains in two driveways and one sidewalk crossing. The concrete driveways have yet to be completed and the sidewalk will require a strip to be saw cut out for placement of the trench drain. The following items have been submitted by the contractor to complete this work:

- Trench Drain: 64 LF @ \$264.50/LF
- Grading & Excavation: 1 LS @ \$1,250/LS
- Saw Cutting: 10 LF @ \$5.00/LF

The submitted unit price of \$264.50/LF for the trench drain is significantly less the accepted unit price of \$384.00/LF for City of Minot project #4774 for 33rd Ave & 1st St SE. See attached approved change order for Project #4774. Additionally, the work to install the trench drain for project #4474 included an item for saw cutting, excavation, subgrade prep, and gravel in the amount of \$2,350 per lump sum. The submitted unit price to complete this similar work is less than the comparable project.

After thorough review of the contractor's submitted prices and comparison to related projects and work, it is recommended that the additional work be authorized via change order to Wagner Construction as the most time and cost effective option.

Sincerely,

Timothy Arens, PE
Project Manager
Ackerman-Estvold



Work Change Directive/Work Order

Engineer/Owner	Ackerman-Estvold/City of Minot
Wagner Project Number/Name	16th Rebuild (Minot#3873.1)
Date:	October 7, 2015
Work Change Directive Number:	Wagner CO#18 (Revised)

Description of Added/ Modified Work:

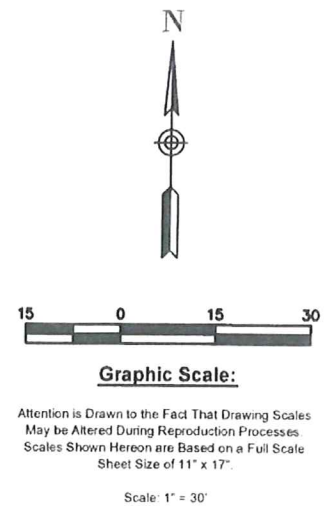
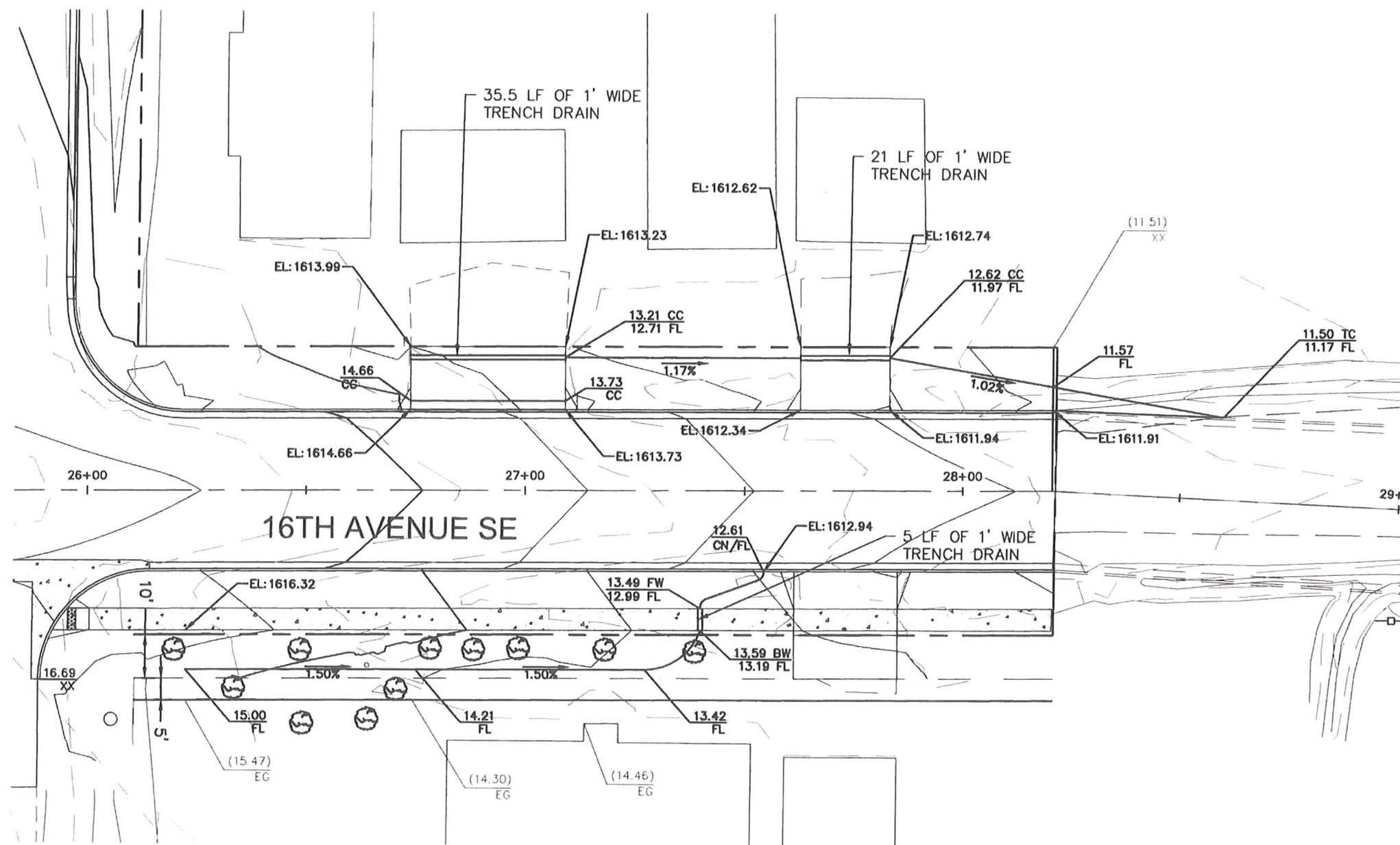
Proposed Trench Drain to be installed at driveways located at 46th St Se & 16th Ave Se. There will also be an additional 6' installed at the sidewalk.

Trench Drain is a 12" Solid Plate provided by Neenah Foundry (Plate Number R4990CX)

The proposed plates come in (2' Sections). The length of the trench drain was recalculated to be 58' for both driveways

Submitted By		Work Requested By:			
Matt Guerton		Ackerman-Estvold			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
Description Materials:		Qty.	Units	Unit Price	Total
Driveway Trench Drain		64.0	LF	\$264.50	\$16,928.00
Additional Grading & Excavation		1.0	LS	\$1,250.00	\$1,250.00
Saw Cutting		10.00	LF	\$5.00	\$50.00
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
Total:					\$18,228.00

Wagner Rep:  Date: 10/07/15 Owner Rep: _____ Date: _____

[illegible]

**ACKERMAN
ESTVOLD**
1907 17th Street Southeast · Minot, ND 58701
701.837.8737 · www.ackerman-estvold.com
Minot, ND | Williston, ND

SCALE (H): 1" = 30'
SCALE (V): N/A
DRAWN BY: EDS
DESIGNED BY: EDS
CHECKED BY: TJA
DATE: 09/15/15

City of Minot, North Dakota
16th Ave, 46th St and 14th Ave SE Rebuild
CDBG-Disaster Recovery Project
GRADING EXHIBIT

PROJECT NO. R14090
DRAWING NAME GRADING EXHIBIT

Change Order

No. 1Date of Issuance: 7/2/2015 Effective Date: 7/6/2015

Project: 33 rd Ave & 1 st St SE	Owner: City of Minot	Owner's Contract No.: 4774
Contract: 33 rd Ave & 1 st St SE Improvements		Date of Contract: 4/16/2015
Contractor:		Engineer's Project No.: 6027-028

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

Description:

Various extra work items described on the attached sheet

Attachments (list documents supporting change):

Description of extra work items; Wagner Construction price breakdown for extra work items

CHANGE IN CONTRACT PRICE:**CHANGE IN CONTRACT TIMES: N/A**

Original Contract Price:

\$ 928,533.86Original Contract Times: ☐ Working days ☐ Calendar days

Substantial completion (days or date): _____

Ready for final payment (days or date): _____

[Increase] [Decrease] from previously approved [Increase] [Decrease] from previously approved Change Orders

Change Orders No. to No. :\$ 0No. to No. :

Substantial completion (days): _____

Ready for final payment (days): _____

Contract Price prior to this Change Order:

\$ 928,533.86

Contract Times prior to this Change Order:

Substantial completion (days or date): _____

Ready for final payment (days or date): _____

[Increase] [~~Decrease~~] of this Change Order:\$ 28,253.00

[Increase] [Decrease] of this Change Order:

Substantial completion (days or date): _____

Ready for final payment (days or date): _____

Contract Price incorporating this Change Order:

\$ 956,786.86

Contract Times with all approved Change Orders:

Substantial completion (days or date): _____

Ready for final payment (days or date): _____

RECOMMENDED:

By: [Signature]
Engineer (Authorized Signature)

ACCEPTED:

By: [Signature]
Owner (Authorized Signature)

ACCEPTED:

By: [Signature]
Contractor (Authorized Signature)Date: 7-13-15Date: 7/15/15Date: 7-7-15

Approved by Funding Agency (if applicable):

Date: _____

Item 2 – Conflict with CB #41, at approximately station 9+00, and underground power lines servicing street lights. Power lines were relocated behind inlet in order to construct storm inlet. See attached work order from Wagner for cost breakdown.

Cost for item 2: \$1,897.50

Item 3 – Storm system connection to existing manhole, at approximately station 1+50, conditions were different than shown on plan. Plan conditions shown were based on design by others as system was not constructed at time of design. Additional work required to make connection. See attached work order from Wagner for cost breakdown.

Cost of item 3: \$1,335.00

Item 4 - Conflict with CB #2, at approximately station 4+60, and underground power lines servicing street lights. Power lines were relocated behind inlet in order to construct storm inlet. See attached work order from Wagner for cost breakdown.

Cost for item 4: \$1,267.50

Item 5 – Water service line to Home Depot conflict with storm pipe, at approximately station 9+40. Water service line adjusted vertically to allow storm pipe to be constructed on grade. See attached work order from Wagner for cost breakdown.

Cost for item 5: \$8,693.00

Item 6 – Grade adjustment of sanitary manholes at approximately stations 2+75 and 12+40 could not be adjusted to grade by removal of rings due to elevation difference required and configuration of manhole construction. Grade adjustments made by replacing manhole barrel and cone sections as necessary. Work also includes the installation of chimney seals on all sanitary manhole per City specifications. See attached work order from Wagner for cost breakdown.

Cost for item 6: \$6,850.00

Item 7 – A trench drain is required to convey runoff from the Home Depot parking lot to 33rd Ave. at approximately station 2+40. No bid item was provided for the trench drain. See attached work order from Wagner for cost breakdown.

Cost for item 7: \$8,210.00



Work Change Directive/Work Order

Engineer/Owner
 Wagner Project Number/Name
 Date:
 Work Change Directive Number:

Houston Engineering
 1st St SE & 33rd Ave SE
 July 1, 2015
 6

Description of Added/ Modified Work:

Trench Drain Quotation per Houston Engineering email (06/23/15), Doug Dilliplane

Plans attached in email

Submitted By:		Work Requested By:			
Matt Guerton		Houston Engineering			
Description Labor:	# Men	Qty.	Units	Rate	Total Hours
Description Equipment:	Unit#	Qty.	Units	Unit Price	Total
Description Materials:	Qty.	Units	Unit Price	Total	
Installation of Neenah 4999 EX -Type D	15.0	LF	\$384.00	\$5,760.00	
Saw Cutting, Excavation, Subgrade Prep, & Gravel	1.0	LS	\$2,350.00	\$2,350.00	
Description of Items Installed	Qty.	Units	Unit Price	Total	
Subcontractors	Qty.	Units	Unit Price	Total	
Misc/Dumpfees/Survey/Q/C Testing/	Qty.	Units	Unit Price	Total	
Disposal of Concrete Curb	1.0	LS	\$100.00	\$100.00	
Total:				\$8,210.00	

Wagner Rep.

Date:

Owner Rep:

Date: