

Item No.	Description	Unit	Qty	Engineer Estimate	
				Unit Price	Subtotal
1	Contract Bond	LS	1	\$50,000.00	\$50,000.00
2	Mobilization	LS	1	\$125,000.00	\$125,000.00
3	Traffic Control	LS	1	\$50,000.00	\$50,000.00
4	Flagging	LS	1	\$5,000.00	\$5,000.00
5	Material Testing	LS	1	\$15,000.00	\$15,000.00
6	Remove & Replace Curb & Gutter	LF	3640	\$40.00	\$145,600.00
7	Remove & Replace Concrete Valley Gutter	SY	113	\$115.00	\$12,995.00
8	Concrete Valley Gutter	SY	13	\$100.00	\$1,300.00
9	Remove & Replace Concrete Patch	SY	58	\$120.00	\$6,960.00
9	Removal of Hot Bituminous Pavement	SY	1710	\$6.00	\$10,260.00
10	Removal of Hot Bituminous Pavement HBP Only	SY	96230	\$6.00	\$577,380.00
	Edge Mill Hot Bituminous Pavement	SY	0		
	Removal of Aggregate Surface	SY	2960	\$3.00	\$8,880.00
11	Cl. 5 Aggregate Base	Ton	470	\$30.00	\$14,100.00
12	Cl. 13 Aggregate Surface	Ton	960	\$35.00	\$33,600.00
13	Cl. 29 Hot Bituminous Pavement Overlay w/PG-58 Asphalt Cement	Ton	17060	\$120.00	\$2,047,200.00
	Cl. 29 Hot Bituminous Pavement Patch w/PG-58 Asphalt Cement	Ton	0	\$120.00	
14	Crack Sealing - Non Routed	LF	9740	\$1.00	\$9,740.00
15	CRS-2P Bituminous Seal	Gal	43840	\$8.00	\$350,720.00
16	Cl. 41 M Aggregate	SY	109600	\$1.75	\$191,800.00
17	Rehab Sanitary Manhole	VF	430	\$350.00	\$150,500.00
19	Remove & Replace Catch Basin Casting 7 Grate	EA	8	\$1,000.00	\$8,000.00
20	Remove & Replace Gate Valve Casting	EA	10	\$1,000.00	\$10,000.00
21	Adjust Manhole	EA	71	\$300.00	\$21,300.00
	Adjust Manhole Ring	EA	15	\$150.00	\$3,000.00
22	Adjust Gate Valve Box	LS	1	\$200.00	\$4,000.00
23	Temporary Striping	EA	4	\$400.00	\$1,600.00
24	Performed Patterned Paymt Mk-Message Grooved	LF	490	\$36.00	\$17,640.00
25	Performed Patterned ymt Mk - 24 in Line Grooved	LF	220	\$5.00	\$1,100.00
26	Expoxy Paint Pymt Mk - 4 in Line	LF	17360	\$3.00	\$52,080.00
27	Expoxy Paint Pymt Mk - 4 in Line	LF			
Change Order 2: 10 June 15					
	Removal of Hot Bitu. Pavement		-2200	\$6.00	-\$13,200.00
	Removal of Hot Bitu. Pavement HBP only		2200	\$6.00	\$13,200.00
	Adjust Manhole		-60	\$300.00	-\$18,000.00
	Adjust Manhole Ring		60	\$150.00	\$9,000.00
					-\$9,000.00

Change order two reflects changes in quantities. Based on the engineer's estimate the reduction would be (\$9,000) change order is for an (\$18,000). This is considered reasonable.



Engineer's Opinion of Probable Costs - Preliminary 95%
 Flood Inundated Areas Street Rehab - Section 2, Minot Project 3873.2
 Minot, North Dakota

Item No.	Description	Unit	Quantity	Unit Price	Subtotal
1	Contract Bond	LS	1	\$50,000.00	\$50,000.00
2	Mobilization	LS	1	\$125,000.00	\$125,000.00
3	Traffic Control	LS	1	\$50,000.00	\$50,000.00
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12	Removal of Aggregate Surface	SY	2960	\$3.00	\$8,880.00
13	Cl. 5 Aggregate Base	Ton	470	\$30.00	\$14,100.00
14	Cl. 13 Aggregate Surface	Ton	960	\$35.00	\$33,600.00
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21	Remove & Replace Gate Valve Casting	EA	10	\$1,000.00	\$10,000.00
22	Adjust Manhole	EA	71	\$300.00	\$21,300.00
23	Adjust Gate Valve Box	EA	15	\$200.00	\$3,000.00
24	Temporary Striping	LS	1	\$4,000.00	\$4,000.00
25	Preformed Patterned Pvmnt Mk - Message	EA	4	\$400.00	\$1,600.00
26	Preformed Patterned Pvmnt Mk - 24in Line	LF	490	\$36.00	\$17,640.00
27	Epoxy Paint Pvmnt Mk - 6in Line	LF	220	\$5.00	\$1,100.00
28	Epoxy Paint Pvmnt Mk - 4in Line	LF	17360	\$3.00	\$52,080.00
District 2 Subtotal					\$3,924,755.00

CONSTRUCTION TOTAL **\$3,924,755.00**

Engineer's opinions of probable construction cost are made on the basis of Engineer's experience and qualifications and represent Engineer's best judgment as an experienced and qualified professional generally familiar with the construction industry. However, since Engineer has no control over the cost of labor, materials, equipment, or services furnished by others, or over contractors' methods of determining prices, or over competitive bidding or market conditions, Engineer cannot and does not guarantee that proposals, bids, or actual Construction Cost will not vary from opinions of probable Construction Cost prepared by

Contingency (12%) \$470,970.60

TOTAL **\$4,395,725.60**

Change Order

No. 2

Date of Issuance: June 10, 2015

Effective Date: June 5, 2015

Project: Flood Inundated Areas Street Rehab - Section 2	Owner: City of Minot	Owner's Contract No.: 3873.2
Contract:		Date of Contract: 04-16-2015
Contractor: Bechtold Paving		Engineer's Project No.: R14090

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

Description: Addition of the following items & unit prices to the contract:

1. Removal of Hot Bituminous Pavement (HBP Only) = \$19.25/SY
2. Adjust Manhole (Adjusting Ring) = \$300.00/EA

The above items will be used as an alternative when appropriate. The application of these items is intended to result in an equal or better finished product to the original, and a cost savings to the project.

Attachments: (List documents supporting change):

1. Contractor's proposed unit prices for the above items (email)
2. Contract Price Change Spreadsheet

CHANGE IN CONTRACT PRICE:

CHANGE IN CONTRACT TIMES:

Original Contract Price:

\$ 2,472,030.60

Original Contract Times: Working days Calendar date

Substantial completion (days or date): October 16, 2015

Ready for final payment (days or date): November 2, 2015

[Increase] [~~Decrease~~] from previously approved Change Orders No. 0 to No. 1:

\$ 262,535.70

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

No. 0 to No. 1:

Substantial completion (days): 0

Ready for final payment (days): 0

Contract Price prior to this Change Order:

\$ 2,734,566.30

Contract Times prior to this Change Order:

Substantial completion (days or date): October 16, 2015

Ready for final payment (days or date): November 2, 2015

[Increase] [~~Decrease~~] of this Change Order:

\$ -18,000.00

[Increase] [~~Decrease~~] of this Change Order:

Substantial completion (days or date): 0

Ready for final payment (days or date): 0

Contract Price incorporating this Change Order:

\$ 2,716,566.30

Contract Times with all approved Change Orders:

Substantial completion (days or date): October 16, 2015

Ready for final payment (days or date): November 2, 2015

RECOMMENDED:

By: Saul Jelso
Engineer (Authorized Signature)

Date: 6-15-15

Approved by Funding Agency (if applicable): _____

ACCEPTED:

By: [Signature]
Owner (Authorized Signature)

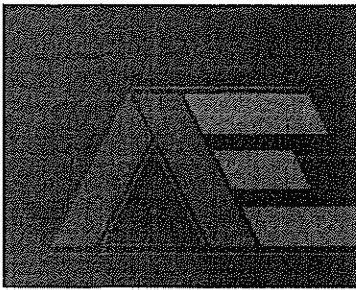
Date: 6/18/15

ACCEPTED:

By: [Signature]
Contractor (Authorized Signature)

Date: 6-11-15

Date: _____



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

MEMORANDUM

To: City of Minot, Ben Cofell

From: Ackerman-Estvold, Sunil Jeboo

Date: June 16, 2015

Re: Change Order 2 Analysis and Justification of Proposed Costs
3873.2 Flood Inundated Areas Street Rehab – Section 2
City of Minot, North Dakota

The contractor submitted the following bid items and unit prices to replace a portion of the original bid items and quantities:

Proposed bid items

1. Removal of Hot Bituminous Pavement (HBP Only) = \$19.25/SY
2. Adjust Manhole (Adjusting Ring) = \$300.00/EA

Original bid items

1. Item #9: Removal of Hot Bituminous Pavement = \$19.25/SY
2. Item #20: Adjust Manhole = \$600.00/EA

The proposed changes are expected to reduce the time required to complete the items to half of the original time and still provide a product with equal or better quality as originally planned. With half the time expected, the submitted price for the adjust manhole item is favorable as it's half the original cost. While the removal of bituminous pavement does not offer a cost savings, the original price is less than the proposed cost of @24.00/SY submitted as a cost savings for the same item on project 3873.0. The estimated cost savings to the project is \$18,000.00 and detailed on the attached sheet.

Base on a favorable comparison with the amount of time required to complete the revised work for the manhole item and that the removal of bituminous pavement is already less than a similar project, it is recommended that the proposed bid items be authorized via change order to Bechtold Paving as the most time and cost effective option.



6/9/2015

Change Order 2 Changes
 Flood Inundated Areas Street Rehab - Section 2
 Minot, North Dakota

Item No.	Description	Unit	Unit Price	Plan + CO1 Quantity	Plan + CO1 Subtotal	CO2 Unit Price	CO2 Adjusted Quantity	CO2 Change	Final	
									Quantity	Final Subtotal
10	Removal of Hot Bituminous Pavement	SY	\$19.25	2280	\$43,890.00	\$19.25	-2200	-\$42,350.00	80	\$1,540.00
10A	Removal of Hot Bituminous Pavement (HBP Only)	SY				\$19.25	2200	\$42,350.00	2200	\$42,350.00
24	Adjust Manhole	EA	\$600.00	64	\$38,400.00	\$600.00	-60	-\$36,000.00	4	\$2,400.00
24A	Adjust Manhole (Adjusting Ring)	EA				\$300.00	60	\$18,000.00	60	\$18,000.00
				Plan + CO1 Construction Total	\$2,734,566.30					
				Change Order 2 Adjustment	-\$18,000.00					
				Updated Construction Total	\$2,716,566.30					

* Quantities are subject to changes from field measurements

Sunil Jeboo

From: Justin Ahmann
Sent: Friday, June 05, 2015 1:26 PM
To: 'ben.cofell@minotnd.org'
Cc: Tim Arens; Sunil Jeboo
Subject: FW: Flood Inundated Areas - Change Order Prices

Ben,

Ackerman-Estvold accepts these cost savings changes as listed in the email below. Could I get an approval from the City, then we will include these prices in the first pay request and issue a Change Order to cover this change. Original bid prices are the following:

Section 1

Removal of Hot Bituminous Pavement = \$45.00/SY
Adjust Manhole = \$600.00/EA

Section 2

Removal of Hot Bituminous Pavement = \$19.25/SY
Adjust Manhole = \$600.00/EA

Thanks.

Justin Ahmann, PE
Civil Engineer
Ackerman-Estvold
1907 17th Street Southeast
Minot, ND 58701
Ph: (701)837-8737
Fax: (701)837-1990

www.ackerman-estvold.com

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From: Mac Kersten [<mailto:macdk@minot.com>]
Sent: Wednesday, June 03, 2015 5:56 AM
To: Justin Ahmann
Cc: Clary (Clary)
Subject: Flood Inundated Areas - Change Order Prices

Justin,

Here are the prices for the Flood Inundated Areas:

Section 1

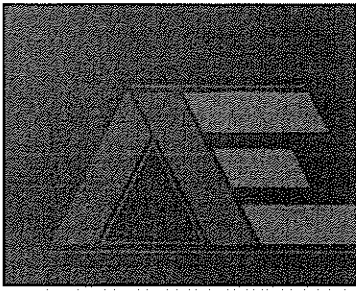
Removal of Hot Bituminous Pavement (Only) = \$24.00/SY
Manhole Adjusting Ring (American Highway Products) = \$300.00/EA

Section 2

Removal of Hot Bituminous Pavement (Only) = \$19.25/SY
Manhole Adjusting Ring (American Highway Products) = \$300.00/EA

West River Striping is getting us some numbers on Permanent Striping.

Mac Kersten
Bechtold Paving Inc.
Minot, ND



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

MEMORANDUM

To: City of Minot, Ben Cofell

From: Ackerman-Estvold

Date: June 1, 2015

Re: Change Order 2 Justification and Independent Cost Analysis
3873.2 Flood Inundated Areas Street Rehab – Section 2
City of Minot, North Dakota

The contractor requested that an allowance be made in the way the following bid items were completed:

- # 9 – Removal of Hot Bituminous Pavement; original contract unit price - \$19.25/SY
- # 20 – Adjust Manhole; original contract unit price - \$600/EA

Bid item #9 requires the removal of the asphalt pavement and aggregate base. The contractor has proposed to only remove the asphalt and leave the aggregate base in place. This will be allowed assuming the actual condition of the existing aggregate material is in relatively good shape as determined by the engineer. As a result a cost savings should be realized due to less work.

Bid Item #20 requires the adjustment of the frame and cover of a manhole to account for the asphalt overlay. Typically work includes excavating the material (asphalt in this case) around the manhole frame and cover to raise it by adding adjusting rings. The contractor proposed to use a manufactured adjusting ring installed inside of the existing frame that allows the cover of the manhole to be set at a raised elevation to match the proposed asphalt overlay. There is an expected cost savings in this process as it will take less time to adjust the manholes with this method.

In order to realize the cost savings, new items should be added to the contract with reduced unit prices. The expected cost savings should be half the original unit bid items as it will require about half the time to complete the work and the material costs are offset or nonexistent.