Project: 3873.1 City of Minot, North Dakota

Change Order

No. 2 Date of Issuance: October 24, 2015 Effective Date: October 24, 2015 Project: 16Th Ave, 46th St, 14Th Ave Rebuild & 16th Ave 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: Revise storm drain from 48" Round Inlet #1 at Sta. 105+68.40 to outlet at the intersection of 16th Avenue SE and the Frontage Road. Revisions required to avoid existing utilities and to eliminate outlet into state highway right of way. Structures CB 2 and STMH 1 are to be eliminated. CB 1 is modified and new structure CBMH6 is added. Additional costs include: 72" CBMH6 at accepted unit cost of \$6,250.00 and 6 Ton (3 CY) of Rip Rap at contract unit cost of \$75,00/ Ton or \$450.00. The following items are eliminated or reduced as a result of the change: 18" RCP quantity is reduced by 127 LF at contract unit cost of \$85.00/LF or \$10,795.00, Catch Basin (CB 2) is eliminated at contract unit price of \$2,500/EA, 72" Storm Sewer Manhole (STMH 1) is eliminated at the contract unit price of \$6,000/EA. Net effect of this revision is a reduction of \$12,595.00 to the contract amount. Item #2: Existing 18" CMP culverts to be removed at the intersection of 16th Avenue SE and the Frontage Road and replaced with 24" RCP and flared end sections. Due to realignment per change order item #1, the two culverts were reanalyzed and the city requested that these culverts be brought up to current design standards. Additional costs include: 86 LF of 24" RCP at contract unit cost of \$92.00/LF or \$7,912.00, 4 EA 24" flared end sections at accepted unit cost of \$1,500/EA or \$6,000.00, and removal of 88 LF of existing pipe at contract unit cost of \$3.00/LF or \$264.00. Net effect of this revision is an increase of \$14,176 to the contract amount Attachments: (List documents supporting change): See attached work orders and field orders. **CHANGE IN CONTRACT PRICE: CHANGE IN CONTRACT TIMES:** Original Contract Price: Original Contract Times: Working days X Calendar date Substantial completion (days or date): October 16, 2015 \$2,103,067.00_ Ready for final payment (days or date): November 2, 2015 [Increase] [Decrease] from previously approved Change [Increase] [Decrease] from previously approved Change Orders to No._1_ Orders No. 0 to No. Substantial completion (days): 7 Calendar Days \$32,212.50_ Ready for final payment (days): 7 Calendar Days Contract Price prior to this Change Order: Contract Times prior to this Change Order: Substantial completion (days or date): October 23, 2015 \$2,135,279.50_ Ready for final payment (days or date): November 2, 2015 [Increase] of this Change Order: [Increase] [Decrease] of this Change Order: Substantial completion (days or date): 1 Calendar Day \$1,581.00_ Ready for final payment (days or date): 1 Calendar Day Contract Times with all approved Change Orders: Contract Price incorporating this Change Order: Substantial completion (days or date): October 24, 2015 \$2,136,860.50_ Ready for final payment (days or date): November 10, 2015 RECOMMENDED: ACCEPTED: Owner (Authorized Signature)

Change Order 00941 - 1

Approved by Funding Agency (if applicable):



CO + Z : Items 1 + 2



Work Change Directive/Work Order

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

Ackemmn-Estvold City of Minot
16th Rebuild (Minot#3873.1)
Unly 1, 2015
Wagner CO#5

Description of Added/ Modified Work:					
Quote per Ackerman-Estvold, FO#9					
Wagner Construction is also requesting a contract extenstion of 7 days d	lue to del	ays caused by	y discharge re	view.	
149 LF of 18" RCP will be removed from the contract. (-\$12,665.00)	-42.000				P. C.
		ested By:			
	erman-Es				
Description Labor: # !	Men	Qty.	Units	Rate	Total Hours
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					,
Description Equipment:	Unit#	QIV.	Units	Unit Price	Total
				MANUFACTION AND AND AND AND AND AND AND AND AND AN	
* Contractor's proposed u Remaining Hems either	ait f	Dries 7		contract ite	44
Remaining Hems either	. not	used o	v paid	at contract u	nit prices.
		·····			
Description Materials:		Qty.	Units	Unit Price	Total
72" CBMH 6 (Non Bid Item) * (Them #1)		1.0	EA	\$6,250.00	\$6,250.00
STMH I (Cost & Disposal) - Never Built, No Charge		1,0	EA	\$0.00	\$0.00_
CB 1 - Never Built, Minor Changes, Revised Shops, 07-01-15, No Charge		1.0	EA	\$0.00	\$0.00
Previously built CB 2 (Cost & Disposal)		1.0	EA	\$1,400.00	\$1,400.00
Remove Existing 18" Culvert(s)		88.0	LF	\$10.00	\$80.00
Install 24" RCP Culvert		86.0	L.F	\$92.00	\$7,912.00
Install 24" RC FES * (III # Z)		4.0	EA	\$1,500.00	\$6,000.00
Riprap		7.0	CY	\$150.0 0	\$1,050,00
Existing 4" Forcemain Adjustment		1.0	LS	\$9,350.00	\$9,350.00
Misc/Dumpfees/Survey/Q/C Testing/		Qty.	Units	Unit Price	Total
				·	
				Total:	\$32,842.00
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Wagner Rep. May Date: 07/0	1/15 Owner Rep: Date:
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White/Owner-Engineer Yellow/Wagner Office Pink/Wagner Foreman

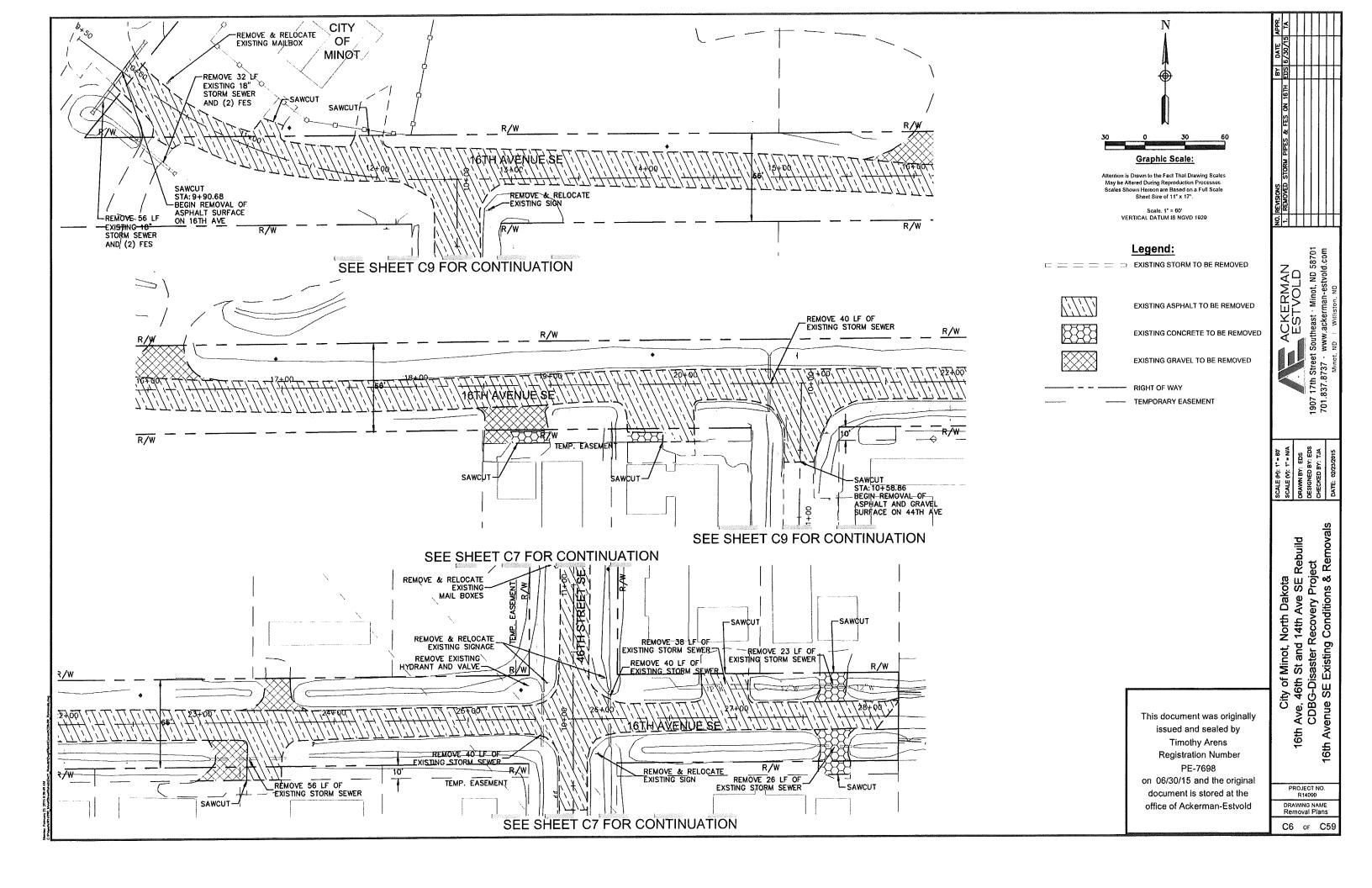
Minot, North Dakota 16th Ave, 46th S1, & 14th Ave Se Rebuild CDBG-Disaster Recovery Project

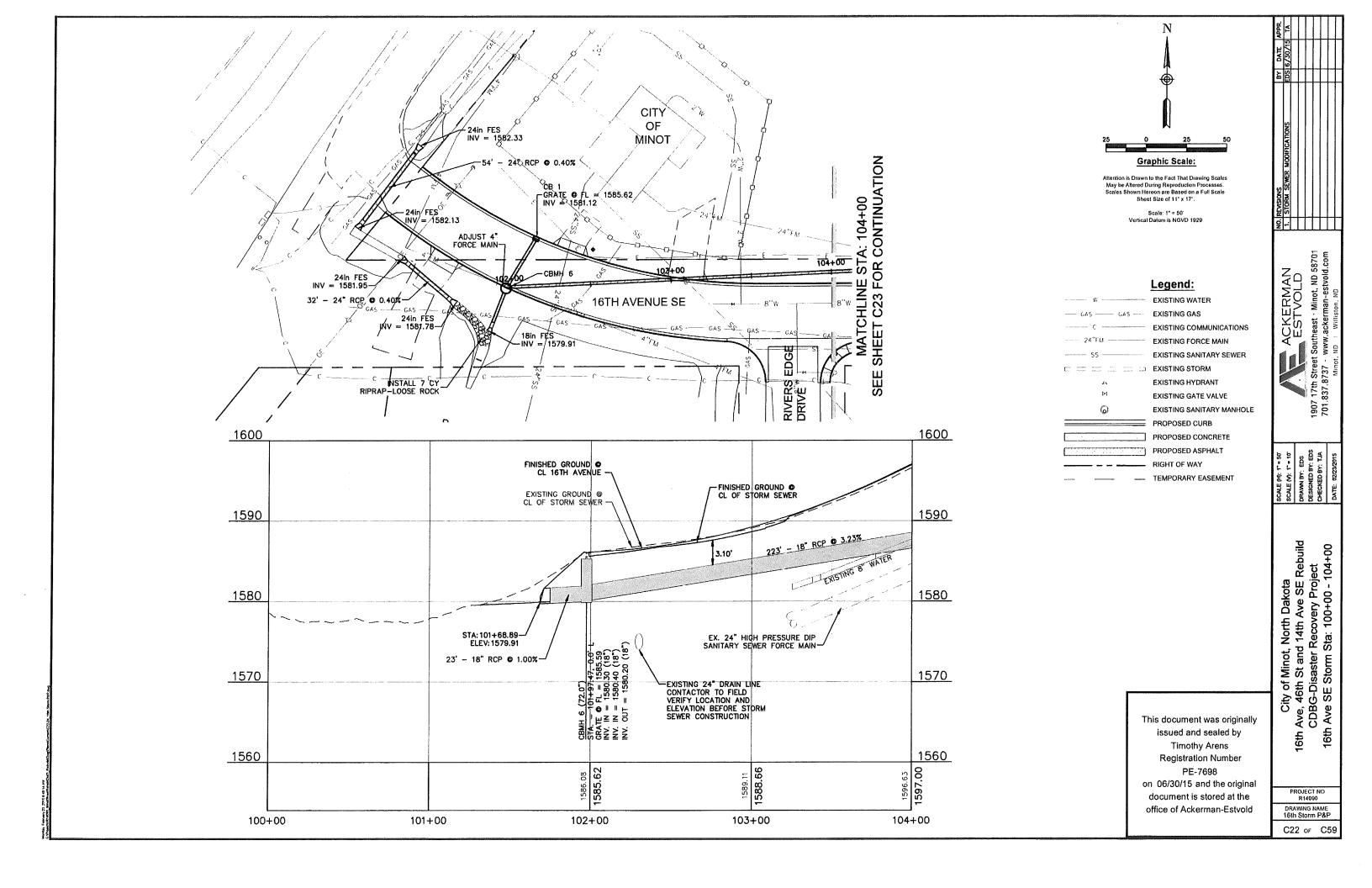
Field Order

No. 9 Date of Issuance: 2015-06-30 Effective Date: 2015-06-30 Owner: Owner's Contract No 16th Ave. 46th St. & 14th Ave SE Rebuild 3873 1 City of Minot Contract 2015-05-15 CDGB Disaster Recovery Project Engineer's Project No Wagner Construction R14090.01 You are hereby directed to promptly execute this Field Order issued in accordance with General Conditions, for minor changes in the scope of the Project without changes in Contract Price or Contract Times. If you consider that a change in Contract Price or Contract Times is required, please notify the Engineer immediately and before proceeding with this Work. Reference: Revised sheets C6 & C22 (Specification Section(s)) (Drawing(s) / Detail(s)) Description: 1) The proposed 18" RCP storm drain from the flared end section to STMH #2 has been rerouted (see sheet C22). Structure CB 1 shall be revised per revised sheet C22 and submitted for approval. New structure CBMH 6 on revised sheet C22 shall also be submitted for approval. STMH 2 shall be used as constructed. Structures CB 2 and STMH 1 will not be needed. Previous quantity of 18" RCP from the flared end section to STMH 2, including runs to CB 1 & CB 2, was 431 LF. Revised quantity is 282 LF. 2) The two existing 18" culverts and end sections at 16th Ave SE and the frontage road are to be removed and replaced with 24" RCP CL III storm drain and concrete flared end sections. Install additional rip rap as shown on revised sheet C22. Additional quantities include 88 LF of culvert removal, 86 LF of 24" RCP, 4 EA 24" concrete end sections, and 3 CY of rip rap. Submit unit price for the flared end sections. 3) The storm drain is expected to intercept and existing 4" sanitary sewer force main. The 4" sanitary sewer force main will need to be lowered below the proposed storm drain. Submit lump sum price to lower the force main. Engineer: Receipt Acknowledged by (Contractor): Date: Copy to: Owner, File, Contractor, Engineer, Surveyor City Project representative

Field Order 00942 - 1







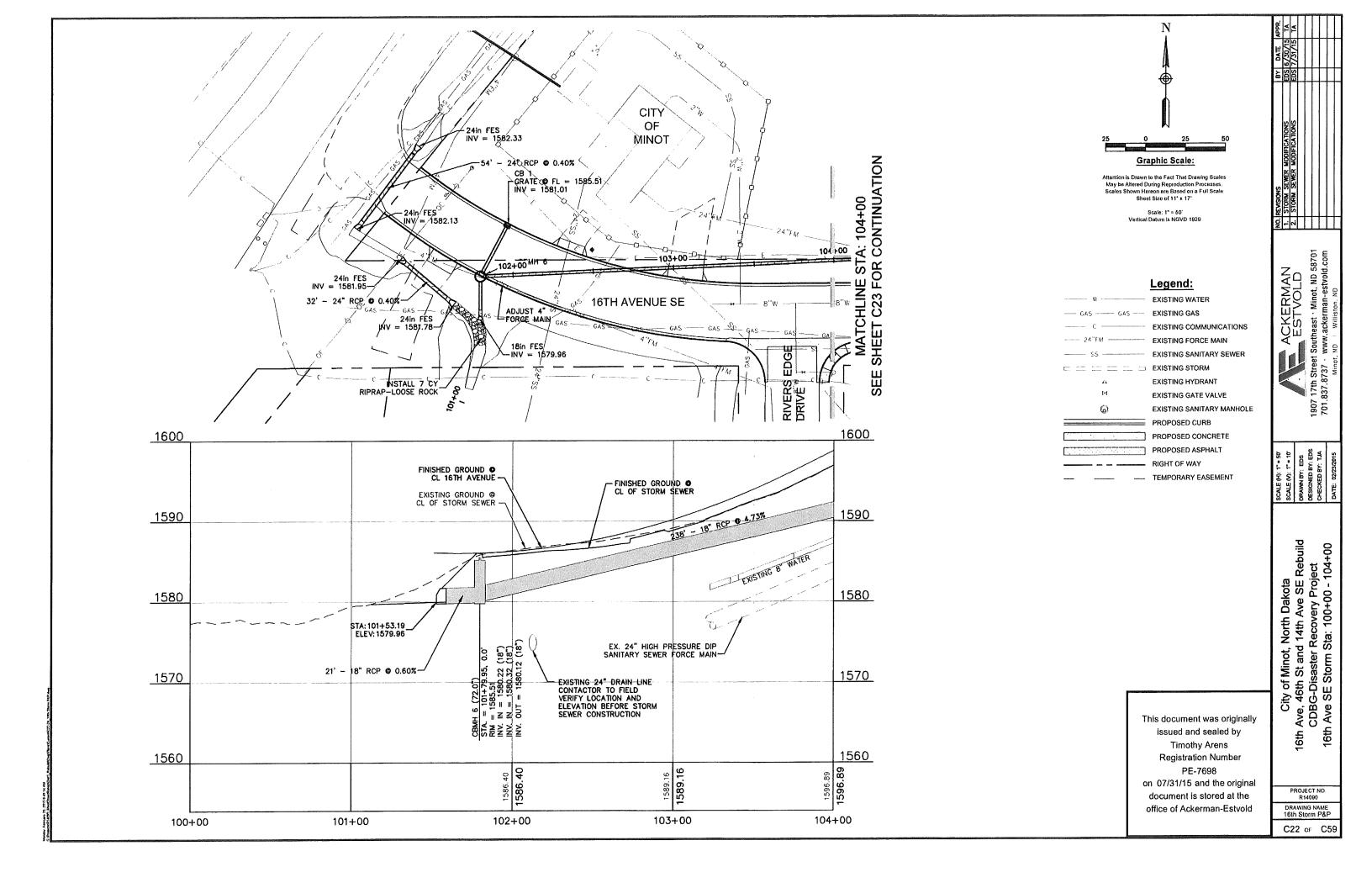
Field Order

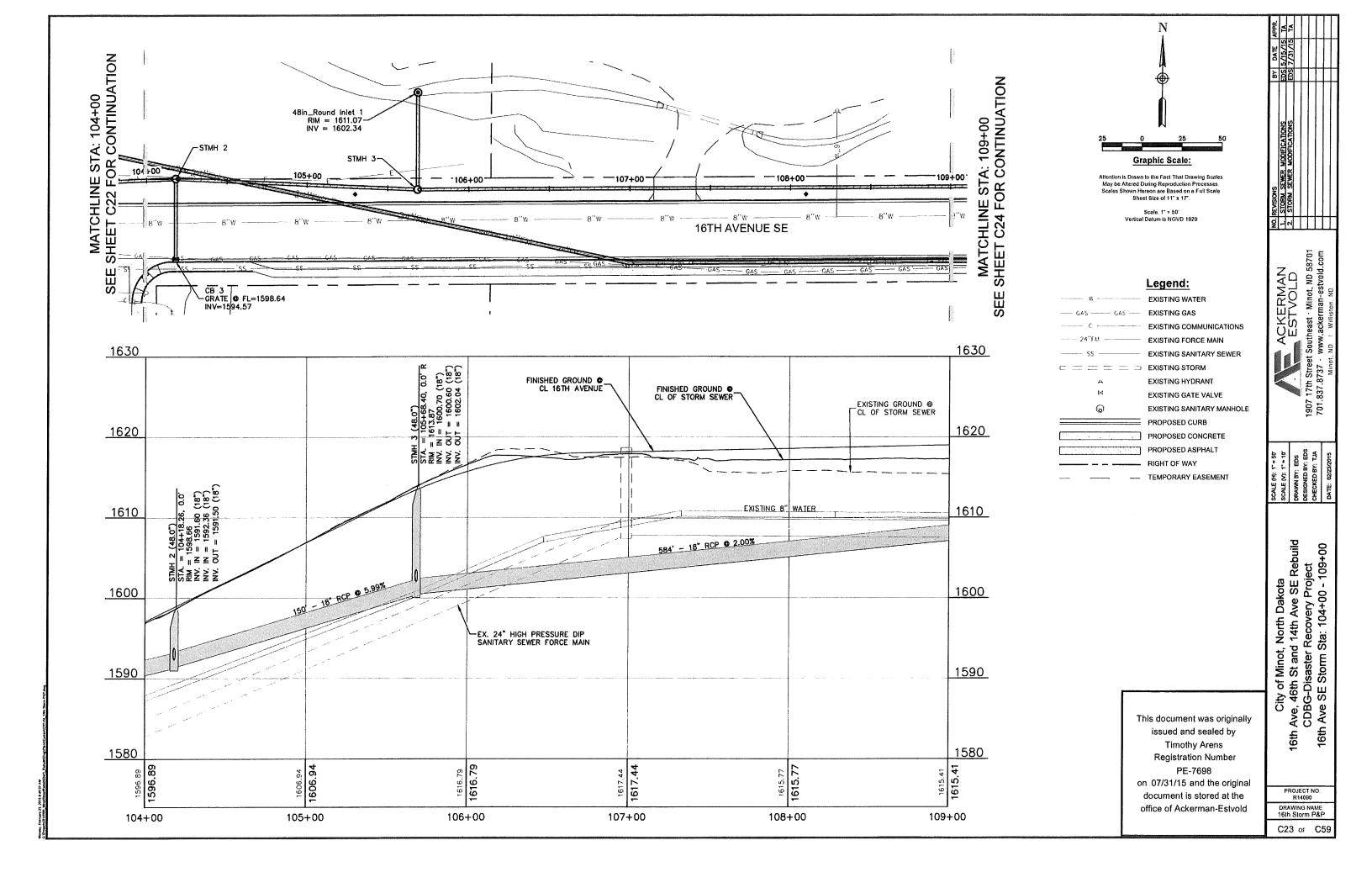
No. 13

						110
Date of Is	ssuance:	2015-08-03		Effective Dat	e: <u>2015-08-</u>	03
Project			Owner:		Owner's Co	ntract No
16 th Ave.	46th St. & 1	4th Ave SE Rebuild	City of Minot		3873 1	
Contract					2015-05-15	
CDGB Di	isaster Reco	very Project				
Contractor.					Engineer's I	Project No :
Wagner C	onstruction				R14090.0	1
the Projec	ereby direct t without ch	ted to promptly execute the nanges in Contract Price or neer immediately and befo	Contract Times. If yo	ou consider that a char	oeral Conditi 1ge in Contra	ons, for minor changes in the scope of ct Price or Contract Times is required,
Reference				Revise	d sheets C22	& C23
		(Specification	Section(s))		(D	Prawing(s) / Detail(s))
Descriptio	n:					
	original qu	antity of 18" RCP.				
			E	ngincer:	11	7
				1 mste		
Receipt Ac	knowledge	d by (Contractor):		Da	le:	
Copy to:	Owner,	File,	Contractor,	Eng	ineer,	Surveyor
	City	Project repress	entative			

Field Order 00942 - 1











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: June 30, 2015

Re: Change Order #2 – Independent Cost Estimate & Justification for Change Order

Project 3873.1 - 16th Ave, 46th St and 14th Ave SE Rebuild

This independent cost analysis is for the following items:

1) Revision to Storm Drain along 16th Ave SE. Revisions required to avoid existing utilities and to eliminate outlet into state highway right of way.

2) Replacement of Existing 18" CMP on 16th Ave SE. Due to realignment per item #1, the two culverts were reanalyzed and the city requested that these culverts be brought up to current design standards.

Item 1: The revision to the storm drain includes the following:

- Add 1 EA of 72" Catch Basin Manhole
- Add 6 Ton of Riprap at Contract Unit Price of \$75.00/Ton
- Eliminate 127 LF of 18" RCP at Contract Unit Price of \$85/LF
- Eliminate 1 EA of Catch Basin at Contract Unit Price of \$2,500/EA,
- Eliminate 1 EA of 72" Storm Sewer Manhole at Contract Unit Price of \$6,000/EA

The only non-contract item is the 72" Catch Basin Manhole. Anticipated unit cost should be similar to the 72" Storm Sewer Manhole that is in the contract at \$6,000/EA. The net result of this revision is estimated to be a decrease to the contract in the amount of \$12,845.

Item 2: This item includes removal of the two existing 18" CMP culverts and replacing with 24" RCP culverts and end sections. The additional pipe is 86 LF of 24" RCP to be overrun at the contract unit price of \$92/LF. The 88 LF of pipe to be removed will overrun quantity at the contract unit price of \$3/LF. Finally, the four 24" RCP end sections are estimated at a unit cost of \$1,500/EA since the contract unit price for a 18" RCP end section is \$1,250/EA and \$1,750/EA for a 30" RCP end section. The total estimated cost for this item is \$14,176.

Since the majority of the items are current contract items with unit prices, little variation can be expected in the total estimated cost for these revisions.

Minot, ND | Williston, ND





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 #2- Cost Justification for Storm Sewer Revisions Project 3873.1 - 16th Ave, 46th St and 14th Ave SE Rebuild

This cost justification analysis includes the new items to complete the following revised or extra work:

1. Revise storm drain from 48" manhole at Sta. 105+68.40 to outlet at the intersection of 16th Avenue SE and the Frontage Road. Structures CB 2 and STMH 1 are to be eliminated. CB 1 is modified and new structure CBMH6 is added. Additional costs include: 72" CBMH6 at proposed unit cost of \$6,250.00 and 6 Ton (3 CY) of Rip Rap at contract unit cost of \$75.00/ Ton or \$450.00. The following items are eliminated or reduced as a result of the change: 18" RCP quantity is reduced by 127 LF at contract unit cost of \$85.00/LF or \$10,795.00, Catch Basin (CB 2) is eliminated at contract unit price of \$2,500/EA, 72" Storm Sewer Manhole (STMH 1) is eliminated at the contract unit price of \$6,000/EA. Net effect of this revision is a reduction of \$12,595.00 to the contract amount.

The proposed unit cost of \$6,250/EA for one 72" Catch Basin Manhole (CBMH6) is accepted based on the following: the contract price of \$6,000/EA for the 72" Storm Sewer Manhole if comparable to the submitted price of \$6,250/EA for the 72" Catch Basin Manhole and City Project #3913 bid in May 30, 2014, had a unit bid price of \$9,500/EA for 2 EA of 72" Dia. Catch Basin Manhole. The submitted price of \$6,250/EA is well below this comparable project.

2. Existing 18" CMP culverts are to be removed at the intersection of 16th Avenue SE and the Frontage Road and replaced with 24" RCP and flared end sections. Additional costs include: 86 LF of 24" RCP at contract unit cost of \$92.00/LF or \$7,912.00, 4 EA 24" flared end sections at proposed unit cost of \$1,500/EA or \$6,000.00, and culvert removal of 88 LF of existing pipe at contract unit cost of \$3.00/LF or \$264.00. Net effect of this revision is an increase of \$14,176 to the contract amount.

The proposed unit cost of \$1,500/EA for 4 EA of 24" End Section is accepted based on the following: City Project #3913 bid in May 30, 2014, had a unit bid price of \$1,800/EA for 3 EA of 24" End Sections and the submitted price of \$1,500/EA compares favorable. Also, the submitted price is between the contract unit prices of \$1,250/EA for 18" end sections and \$1,750/EA for 30" end sections.

Minot, ND | Williston, ND

October 24, 2015 Project 3873.1 CO#2 Cost Justification Page 2

Based on the comparable unit prices and the contractor's knowledge of the project, 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

CO+2: Ikas 1+2



Work Change Directive/Work Order

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

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Ackerman-University of Minor 18873 1

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Wagner Cons

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Description of Added/ Modified Work:	ndirithmiyyedhaanin misamoo aanaa agaapii gariga			
Quote per Ackerman-Estvold, FO#9				emann far rot som men indrugisk statistisk i Gott 450 580 580 580 580 580 580 580 580 580 5
Wagner Construction is also requesting a contract extenstion of 7 days due to de-	days caused by	y discharge re	view.	
149 LF of 18" RCP will be removed from the contract. (-\$12,665.00)				
Submitted By Work Requ				
Matt Guerton/Mike Brewinski Ackerman-L	Estvold			
Description Labors # Men	Oŋ.	Units	Rate	Total Hours
		State State of the	200 - 1	
				,
Description Equipment: Unit#	Qw.	Units	Unfit Price	Total
* Contractor's proposed unit	prices 7	for son-	contract ite	ms,
* Contractor's proposed unit Remaining Hems either not	used o	v paid	at contract u	nit prices.
				A CONTRACTOR OF THE PROPERTY O
			reggymregiptelistic for recommense actuallistic objects for a factor of the commense of the co	
Description Materials:	QIV.	Units	Unit Price	Total
72" CBMH 6 (Non Bid Item) * (= +++ *)	1.0	EA	\$6,250,00	\$6,250.00
STMH 1 (Cost & Disposal) - Never Built, No Charge	1.0	EA	*50.00	\$0.00
CB 1 - Never Built, Minor Changes, Revised Shops, 07-01-15, No Charge	1,0	EA	\$0.00	\$4,00-
Previously built CB 2 (Cost & Disposal)	1.0	EA	\$1,400.00	\$1,400,00
Remove Existing 18" Culvert(s)	88.0	LF	<u>\$10,00</u>	SBROTOO
Install 24" RCP Culvert	86.0	I.F	\$92.00	\$7,912,00
Install 24" RC FES * (III # 2)	4.0	EA	<u>(\$1,500.00)</u>	\$6,000.00
Riprap	7.0	CY	-\$150.00	\$1,050,00
Existing 4" Forcemain Adjustment	1.0	L.S	_ \$9,350,0 0	\$9,350.00
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Mfse/Dumpfees/Survey/Q/C Testing/	QIV.	Units	Unit Prive	Total
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	J.,,		Total:	\$32,842.00

Vagner Kop. Play	te: <u>07/01/15</u> Owner Re	p:	Date:
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White/Owner-Engineer Yellow/Wagner Office Pink/Wagner Foreman





City Project #3913 Bid May 30, 2014

City of Minot, North Dakota 55th Crossing West Street & Utility Improvements

Item No.	Description	Quantity	Unit	Unit Price	Subtotal (Quantity x Unit Price)
27.	8"x6" DI Tee	1	EA	\$ (24)	The second
28.	8" DI Bend	1	EA	5 Fair C	" Eger its
29.	8" Wet Tap with Valve & Tapping Sleeve	6	EA	V., See C	5 Barrell
30.	6" Wet Tap with Valve & Tapping Sleeve	5	EA	\$6,600	4. C. C. C.
31.	8" DI Cap	6	EA	3.66. (1	" 3 West
	Sanitary Sewer				
32.	8" PVC Sewer Main (SDR-35)	1,900	LF	\$ 750	147,500.11
33.	8" PVC Sewer Main (SDR-35), Remove & Replace	400	LF	* 2.00.00	× 6 . (41. 11
34.	12" PVC Sewer Main (SDR-35)	1,760	LF	°H.C	" 113460"
35.	4" PVC Sewer Service Complete - Sch. 40	110	EA	B/ Hell	11/16/08/11
36.	48" Manhole, Eccentric Standard (Complete)	15	EA	\$ 5,600."	5 15 ered
37.	Connect to Ex. Manhole by External Drop	1	EA	Same	Lar.
38.	Ex. Manhole Adjustments	15	EA	* yeze. "	4 11,200 11.
39.	8" Plug	6	EA	* Z2'5 S'	F 1, 358,0
40.	12" Plug	1	EA	9 235 11	4 256 CC
41.	Sewer Televising	1	LS	* 1.50 M	" 1, Sec. (1)
	Storm Sewer				
1 2.	24" x 36" Catch Basin	28	EA	18 3 Key 160	12401 ···
13.	48" Dia. Catch Basin Manhole	25	EA	8 3 cm. "	15000 CC
14.	60" Dia. Catch Basin Manhole	21	EA	1.5200	81 Gol Tax (1)
15.	72" Dia. Catch Basin Manhole	2	EA	M. C. Serie	er Clarit
16.	84" Dia. Catch Basin Manhole	1	EA	11,500	" (Sec. 14)
17.	48" Dia. Storm Sewer Manhole	5	EA	£4,500'	# 22,500 C
18.	60" Dia. Storm Sewer Manhole	10	EA	93600	St. Barton Com
19.	72" Dia. Storm Sewer Manhole	4	EA	11 80 V 1 V 1	\$ 34, Ches. Th
50.	15" RCP CL-III	1,050	LF	66.	# 63 C 18 "
1.	18" RCP CL-III	5,550	LF	* 611. CX.	" SEZ 456"
52.	24" RCP CL-III	1,650	LF	" 72 "	2 116 8185
3.	30" RCP CL-III	2,650	LF	9//01	* 1 2.11.500 "
4.	18" CES	12	EA	1. 1. 1. 1.	11,4000
5.	24" CES	3	EA	1. 1818 - 18	5 . yes. 16.
6.	30" CES	3	EA	2. 1000	" 8- 100 : " "

Bid Form 00410 - 5



City Project 3873.1

City of Minot, North Dakota 16th Ave, 46th St and 14th Ave SE Rebuild

Spec. No.	Item No.	Description	Quantity	Unit	Unit Price	Subtotal (Quantity x Unit Price)
	34.	72" Storm Sewer Manhole	2	EA	#6,000.00	\$ 12,000.00
	35.	30" Round Inlet	2	EA	#2,000.00	\$ 4,000,00
	36.	48" Round Inlet	10	EA	#3,0co.00	\$30,000.00
	37.	60" Round Inlet	3	EA	#5,000 00	\$1.5,000,00
	38.	18" RCP Cl. III Storm Drain	1,732	LF	\$ 85,00	8147,220.50
	39.	24" RCP Cl. III Storm Drain	1,026	LF	\$ 90.00	4 94,392,00
	40.	30" RCP Cl. III Storm Drain	1,016	LF	\$ 105.00	\$ 106,680.00
	41.	End Section - Conc. Reinf 18"	1	EA	\$1.250.00	\$1,250.00
	42.	End Section - Conc. Reinf 30"	1	EA	#1.750. ""	\$1,750.00
	43.	Polystyrene Insulation Board	704	BD FT	\$1,750. "" \$2,50	F1,408 00
	44.	Rip Rap	28	TON	#75.00	#2,100,00
		Sanitary Sewer Items				
	45.	Adjust Manhole - Type 1	7	EA	\$650.00	# 4550 00
	46.	Adjust Manhole – Type 2	3	EA	# 650, 00	\$ 4,550.00
	47.	4" Sanitary Sewer Service, Complete w/ Cleanout	1	EA	\$ 2,50c °	¥2,500.0
		Water Items				
	48.	Connect to Existing Water Main	9	EA	\$3,500.00	\$ 31 500.00
	49.	6" PVC Water Main	36	LF	#3,500.6°	#31,506.00 #2,500.00
	50.	8" PVC Water Main	117	LF	\$ 70.00	#8,190.00
	51.	12" PVC Water Main	2,033	LF	\$ 73,°°	#148,409,00
	52.	6" Gate Valve & Box	5	EA	#1,300,°C	\$ 6,500.00
	53.	8" Gate Valve & Box	1	EA	\$ 1,800,00	# 1,800.50
	54.	12" Gate Valve & Box	7	EA	#3,500.00	\$ 24 500 00
	55.	8" DI Bend	1	EA	# 350.00	#24,500.00 #350.00
	56.	12" DI Bend	1	EA	\$ 650.00	\$ 650.00
	57.	8" DI Tee	2	EA	\$ 500.00	# 1,000 00
	58.	12"x6" DI Tee	4	EA	#700,00	# 2,500. ""
	59.	12"x8" DI Tee	1 1	EA	# 1750.00	\$ 750.00
6	50. 1	12" DI Tee	2	EA	\$ 550 m	\$1,700,00
6	51. 1	12"x6" DI Reducer	2	EA	#35c."	# 700.
6	52. 1	12"x8" DI Reducer	1	EA	章 400.00	第 中の、ero
6	3. 1	"Water Service, Complete w/ Curb Stop	5		#2,500,00	\$ 12,500 00
6		8" Steel Casing Pipe	200	LF	\$295,00	# 54,000, "
6	5. R	Remove Hydrant	3			\$ 750.50
6	6. R	Remove Gate Valve and/or Box	5		# 10.0°	\$ 500.05
6	7. R	Remove DI Tee	1	EA	# 100.00	# /cc. 55
6	8. R	demove DI Cross	1	EA	# 100. (a)	# 10c,00
			L			# 729,519.55

Bid Form 00410 - 5

