

Change Order No. Three (3)

Date of Issuance: October 1, 2015	Effective Date:	October 1, 2015
Owner: City of Minot	Owner's Contract No.:	3608
Contractor: Strata Corporation	Contractor's Project No.:	
Engineer: HMjv	Engineer's Project No.:	7926-001
Project: Downtown Infrastructure Improvements Project – Phase 1	Contract Name:	

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

Description:

1. Add new item to Schedule D: "Item 17 – 8" Restrained Joint PVC Sanitary Sewer Main on 2nd Ave SE installed via HDD Methods" at a lump sum cost of \$81,919.00.
2. Add new drawing Sheet SS-8A to the contract documents.
3. All other related work shown on drawing Sheet SS-8A that is required to complete new item D-17 shall be measured and paid for based on contract unit prices.
4. Add 7 days' time to the 20 day restriction on 3rd Street traffic closure.
5. Incorporate work pertaining to Item D-17/Sheet SS-8A as part of Contract Milestone No. 3.

Attachments:

1. Contractor's request for Change Order correspondence with Engineer's review and recommendation to Owner with supporting documentation.
2. Drawing Sheet SS-8A.

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES
Original Contract Price: <u>\$ 14,395,218.10</u>	Original Contract Times: Milestone #1 Substantial Completion: <u>July 15, 2015</u> Milestone #2 Substantial Completion: <u>August 15, 2015</u> Milestone #3 Substantial Completion: <u>November 14, 2015</u> Ready for Final Payment: <u>December 19, 2015</u>
Increase from previously approved Change Orders No. <u>1</u> to No. <u>2</u> : <u>\$ 58,663.91</u>	Increase from previously approved Change Orders No. <u>1</u> to No. <u>2</u> : Milestone #1 Substantial Completion: <u>9 days</u> Milestone #2 Substantial Completion: <u>9 days</u> Milestone #3 Substantial Completion: <u>9 days</u> Ready for Final Payment: <u>9 days</u>

Contract Price prior to this Change Order: <u>\$ 14,453,882.01</u>	Contract Times prior to this Change Order: Milestone #1 Substantial Completion: <u>July 24, 2015</u> Milestone #2 Substantial Completion: <u>August 24, 2015</u> Milestone #3 Substantial Completion: <u>November 23, 2015</u> Ready for Final Payment: <u>December 28, 2015</u>	
<u>Increase</u> of this Change Order: <u>\$81,919.00</u>	Increase of this Change Order: Milestone #1 Substantial Completion: <u>0 days</u> Milestone #2 Substantial Completion: <u>0 days</u> Milestone #3 Substantial Completion: <u>7 days</u> Ready for Final Payment: <u>7 days</u>	
Contract Price incorporating this Change Order: <u>\$14,535,801.01</u>	Contract Times with all approved Change Orders: Milestone #1 Substantial Completion: <u>July 24, 2015</u> Milestone #2 Substantial Completion: <u>August 24, 2015</u> Milestone #3 Substantial Completion: <u>November 30, 2015</u> Ready for Final Payment: <u>January 4, 2016</u>	
RECOMMENDED: By: <u>D. P. O'Shea</u> Title: <u>Project Manager</u> Date: <u>10/2/2015</u>	ACCEPTED: By: <u>Jan M.</u> Title: <u>City Engineer</u> Date: <u>10/2/15</u>	ACCEPTED: By: <u>Andrew Englehardt</u> Title: <u>Project Manager</u> Date: <u>10/1/2015</u>

Strata Corporation

1225 South Broadway Minot, ND 58701

Office: 701.852.4560 Fax: 701.852.9202

Proposal

Proposal Submitted to Address:	Phone:	Date:
City of Minot C/O Houston Engineering		10/01/15
	e-mail:	Attention:
		Dave O'Shea

Project: Minot Downtown Infrastructure Project - 2nd Ave SE Sanitary Sewer

Strata Corporation is pleased to submit the following proposal based upon the information we've received.

2nd Ave SE Sanitary Sewer 53+30 to 58+70 ... \$ 141,823.00

Scawcut, remove & replace asphalt, curb & gutter & sidewalk as required at new manhole

Excavate to designed depths as required for 2 large bore pits and access to existing manholes include trench boxes

Furnish & Install new manhole & casting at 53+34.49

Furnish & Install new 8" SDR 21 Certa Flo pipe

Includes approx. 527 lf of directional drill - pull / place new pipe

Connection to the new manhole and 2 existing manholes

Survey - bore grade stakes every 10' will be furnished by Houston engineering

If rock encountered is significant, additional mud mixing may be required to provide a clean enough hole to pull pipe

We will do all we can to avoid this but we may request payment for these additional mud mixing charges.

Note: There is concern with the ability to pull this pipe, this length. Our best competent efforts will be used to complete.

Strata will not be held responsible for a failed bore due to rocky soils or pipe connection failure.

Add 7 days to the 20 day restriction on 3rd St. closure to adjust for this work scope

General Notes:

Proposal valid for 60 days.

Payment due within 30 days of invoice.

All past due accounts assessed a service fee of 18% annually or 1.5% monthly

All material is guaranteed to be as specified and all work to be completed in a workmanlike manner

according to standard practices. All agreements contingent upon strikes, accidents or delays

beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are

fully covered by Workers Compensation Insurance.

Proposal Submitted By:

Kelly D Perlichek - Estimator

Acceptance of Proposal

Date of Acceptance:

The above prices, specifications, and conditions are satisfactory and are hereby accepted.

You are authorized to do the work as specified. Payment will be made as outlined above.

Signature

X

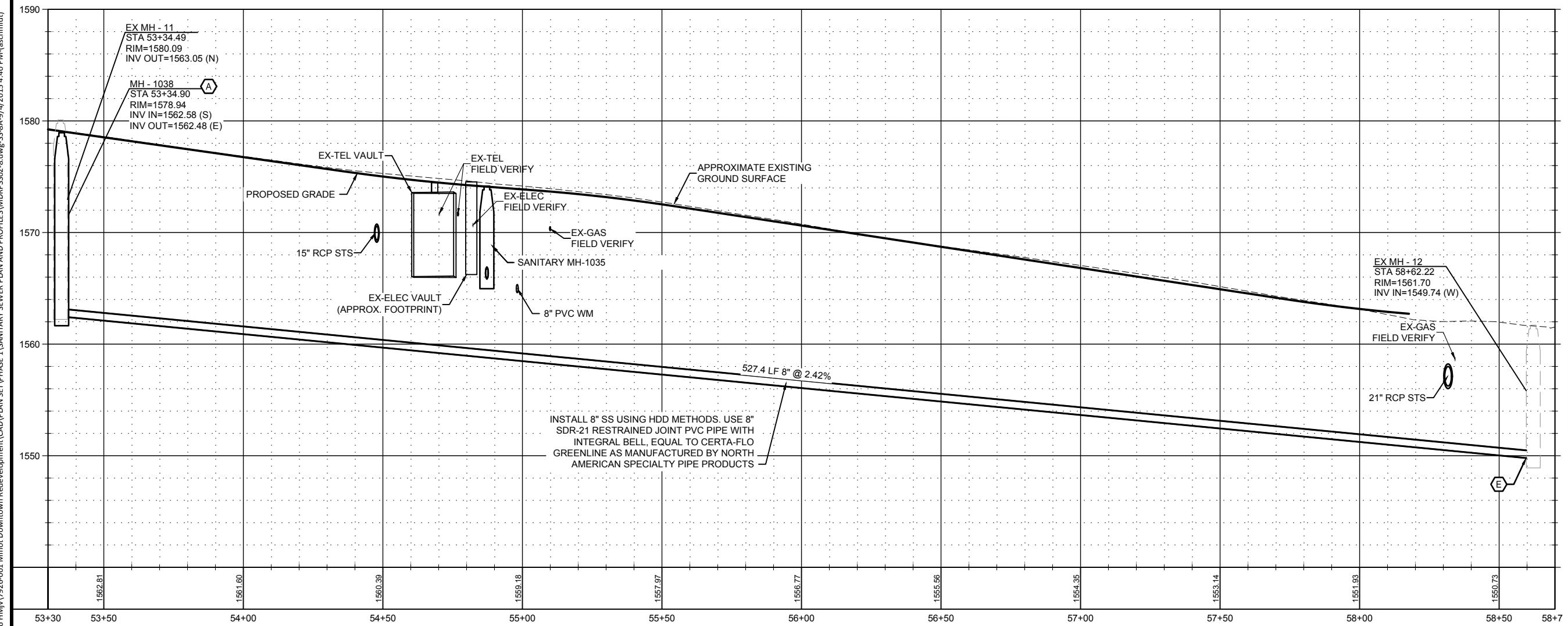
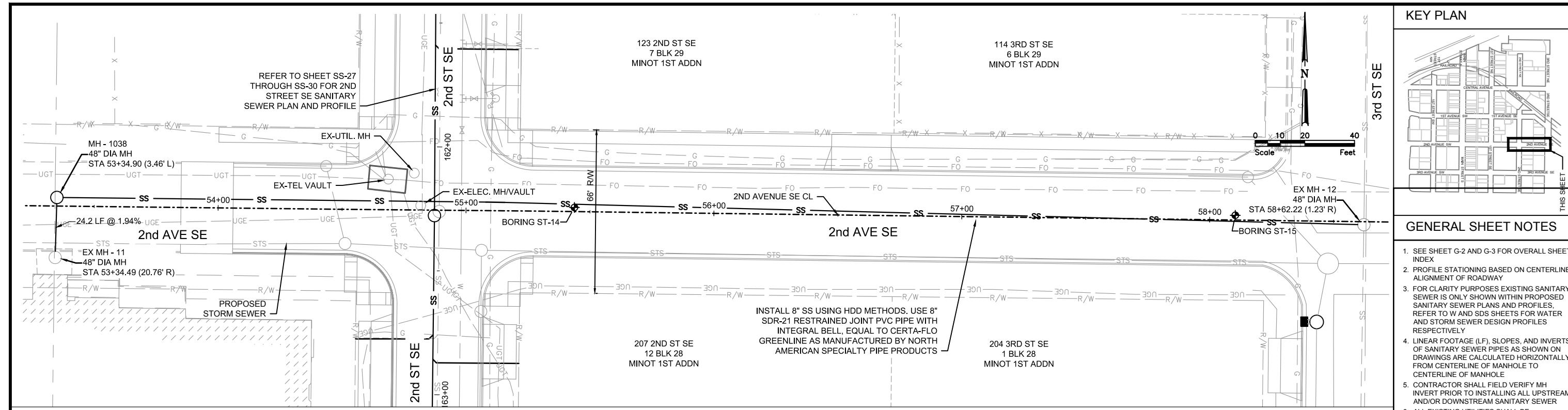
**Downtown Minot - Vault
2nd Ave SE Sanitary Sewer**

Breakdown

		Quantity	Unit	Unit Price	Total
1	Sawcut Pavement full depth <i>Includes 246 lf asphalt sawcut & 24 lf concrete sawcut</i>	270	LF	\$ 9.00	\$2,430.00
2	Asphalt Removals 33' x 90'	330	SY	\$ 16.00	\$5,280.00
3	Subgrade Prep under asphalt	330	SY	\$ 4.30	\$1,419.00
4	Fabric under asphalt	330	SY	\$ 15.00	\$4,950.00
5	Base under asphalt	330	SY	\$ 13.00	\$4,290.00
6	Replace & Patch Asphalt	330	SY	\$ 63.50	\$20,955.00
7	Curb & Gutter Removal	30	LF	\$ 6.80	\$204.00
8	Curb & Gutter Hand form Replace	30	LF	\$ 80.00	\$2,400.00
9	Sidewalk Removal 30' x 10'	33	SY	\$ 8.00	\$264.00
10	Subgrade Prep under sidewalk	33	SY	\$ 2.00	\$66.00
11	4" base under sidewalk	33	SY	\$ 7.50	\$247.50
12	Replace sidewalk	33	SY	\$ 73.00	\$2,409.00
13	Install 48" manhole 10' depth - Tom's	1	EA	\$ 6,600.00	\$6,600.00
14	Install 48" manhole additional depth - Tom's	8	LF	\$ 200.00	\$1,600.00
15	San. sewer connection to existing manhole - Tom's	2	EA	\$ 2,800.00	\$5,600.00
16	Street Sweeping	2	HR	\$ 190.00	\$380.00
17	Traffic Control - Type 3 barricade	6	EA	\$ 135.00	\$810.00
18	Excavation / Backfill of 2 bore pits - Tom's <i>Includes trench box & safety fence</i>	1	LS	\$ 8,360.00	\$8,360.00
19	Pipe Handling and placement into pit - Tom's <i>Includes equipment to move & lower into pit</i> <i>Includes labor to handle & make male to female joint connections in the pit</i>	1	LS	\$ 6,120.00	\$6,120.00
20	Directional Drill 8" sanitary sewer pipe - Stellar <i>Includes hydrovac for locates and drill mud evacuation,</i> <i>Includes 600 lf of 8" SDR-21 restrained joint pvc pipe by certa-flo</i>	527	LF	\$ 98.00	\$51,646.00
21	Directional Drill Support - Strata <i>Includes Strata full time supervision, communications pit to pit and project management</i>	1	LS	\$ 7,800.00	\$7,800.00
22	10% markup on subs $\$ 79,926 \times 10\% = \$ 7,993$	1	LS	\$ 7,993.00	\$7,993.00
				Total	\$141,823.50

81,919

DJO



Minot Downtown Infrastructure Improvements Project - Phase 1

Change Order 3 - Install 8" Sanitary Sewer via HDD on 2nd Ave SE

HMjv Independent Estimate - New Item D-17

Underground Sub - Materials

8" RJ PVC (Certa-Flo) Pipe	560	LF	\$ 12.00	\$ 6,720.00
8" SDR-35 PVC Sewer Pipe	56	LF	\$ 8.00	\$ 448.00
8" Fernco Coupling	2	EA	\$ 75.00	\$ 150.00
Subtotal Materials				\$ 7,318.00
7.5% Sales Tax				\$ 548.85
Freight				\$ 500.00
Total Materials				\$ 8,366.85

Underground Sub - Labor

Operator	20	HR	\$ 35.00	\$ 700.00
Operator OT	8	HR	\$ 52.50	\$ 420.00
Pipe Layer	8	HR	\$ 28.00	\$ 224.00
Pipe Layer OT	2	HR	\$ 42.00	\$ 84.00
Subtotal Labor				\$ 1,428.00
40% Labor Burden				\$ 571.20
Total UG Sub Labor				\$ 1,999.20

Underground Sub - Equipment

Hydraulic Excavator	16	HR	\$ 200.00	\$ 3,200.00
Hydraulic Excavator w/Hydra-Compactor Plate	8	HR	\$ 250.00	\$ 2,000.00
Sheepsfoot Compactor	4	HR	\$ 125.00	\$ 500.00
Trench Box (each end)	8	Day	\$ 350.00	\$ 2,800.00
Underground Crew Tool Van	4	Day	\$ 250.00	\$ 1,000.00
Superintendent Pickup	4	Day	\$ 100.00	\$ 400.00
Total UG Sub Equipment				\$ 9,900.00

Subtotal Underground Subcontractor **\$ 20,266.05****HDD Subcontractor**

HDD Drill Rig, Fully Equipped with Crew	4	Day	\$ 7,500.00	\$ 30,000.00
HDD equipment and crew mob/demob	1	EA	\$ 3,500.00	\$ 3,500.00

Subtotal HDD Subcontractor **\$ 33,500.00**Add 20% Subcontractor Overhead & Profit **\$ 10,753.21**
Total Subcontractors **\$ 64,519.26****Prime Contractor - Labor**

Superintendent	16	HR	\$ 40.00	\$ 640.00
Project Manager	8	HR	\$ 35.00	\$ 280.00
Traffic Control Coordinator	8	HR	\$ 20.00	\$ 160.00
Subtotal Labor				\$ 1,080.00
40% Labor Burden				\$ 432.00
Total Prime Contractor Labor				\$ 1,512.00

Prime Contractor - Equipment

Hydro-Vac Truck w/operator	16	HR	\$ 250.00	\$ 4,000.00
Drilling Fluid Disposal at Landfill	1	EA	\$ 600.00	\$ 600.00
Superintendent Pickup	2	Day	\$ 100.00	\$ 200.00
Total Prime Contractor Equipment				\$ 4,800.00

Prime Contractor MarkupAdd 20% OH & Profit on Prime Contractor Labor & Equipment **\$ 1,262.40**Add 15% Overhead & Profit on Subcontractors **\$ 9,677.89****TOTAL CHANGE ORDER ESTIMATE - ITEM D-17 \$ 76,971.55**

Dave O'Shea

From: Dave O'Shea
Sent: Thursday, October 01, 2015 8:06 AM
To: lance.meyer@minotnd.org
Cc: Dave Schwengler; Kody Jacobsen; Kevin Martin; Stan Hanson
Subject: FW: 2nd Ave Sanitary Sewer Installation
Attachments: Minot Downtown - 2nd Ave SE Sanitary Sewer.pdf

Lance,

Attached is Strata's proposal for the 2nd Ave SE sanitary sewer service for the Central Campus sub-basement. Upon review:

1. Items 1-17 on the breakdown are currently in the contract, so that work would be measured and paid for based on contract unit prices. The unit prices shown are correct.
2. Item 20, for the actual drilling, is on the high side of reasonable; but given that the work is needed immediately, the presence of existing utilities, containing drilling fluid in an urban (institutional) environment, and the reported uneasiness of drilling contractors being able to successfully drill downtown with the fear of conflicts with loose rock, I don't think a cheaper price can be secured at this time of year.
3. I have discussed with Andy the high cost for their item 19. This covers Tom's crew time for pipe handling and assembly during pull-back. The specified Certa-Flo pipe connects very quickly with only one joint spline and the pipe is relatively light weight. The total time for this task should be related to the pipe pull back time, which we anticipate would be less than a day assuming that the borehole maintains its integrity during the pull back. Andy indicated he would check with Tom.
4. Strata's markup on work completed by subs is reasonable. Andy indicated that the HDD contractor (Stellar) will be a first tier sub so they will be in direct control.

To be able to complete the work, Strata needs to get the pipe ordered. If Strata does not reduce the LS cost for item 19 today, in lieu of issuing a change order today, we can issue a Work Change Directive based on non-agreement on contract price and necessity to get the work done. This gives Strata the written authorization to order the pipe. If needed, we can counter that Tom's work on items 18 and 19 can be handled on a T&M basis. If we get to price agreement today, the change order amount would be for items 18 – 22. Items 1 – 17 would be handled on the final balancing change order for installed quantities.

With your approval, we will proceed with preparation of the change document for issuance today. We can discuss further as you feel necessary.

Thanks,
Dave

Dave O'Shea
Civil Engineer
Houston Engineering, Inc.
O 701.852.7931 | F 701.858.5655

Strata Corporation

1225 South Broadway Minot, ND 58701

office: 701.852.4560 fax: 701.852.9202

Proposal

Proposal Submitted to Address:	Phone:	Date:
City of Minot C/O Houston Engineering		09/30/15
	e-mail:	Attention:
		Dave O'Shea

Project: **Minot Downtown Infrastructure Project - 2nd Ave SE Sanitary Sewer**

Strata Corporation is pleased to submit the following proposal based upon the information we've received.

2nd Ave SE Sanitary Sewer 53+30 to 58+70 ... \$ 154,780.00

Sawcut, remove & replace asphalt, curb & gutter & sidewalk as required at new manhole

Excavate to designed depths as required for 2 large bore pits and access to existing manholes include trench boxes

Furnish & Install new manhole & casting at 53+34.49

Furnish & Install new 8" SDR 21 Certa Flo pipe

Includes approx. 527 lf of directional drill - pull / place new pipe

Connection to the new manhole and 2 existing manholes

Survey - bore grade stakes every 10' will be furnished by Houston engineering

If rock encountered is significant, additional mud mixing may be required to provide a clean enough hole to pull pipe

We will do all we can to avoid this but we may request payment for these additional mud mixing charges.

Note: There is concern with the ability to pull this pipe, this length. Our best competent efforts will be used to complete.

Strata will not be held responsible for a failed bore due to rocky soils or pipe connection failure.

Add 7 days to the 20 day restriction on 3rd St. closure to adjust for this work scope

General Notes:

Proposal valid for 60 days.

Payment due within 30 days of invoice.

All past due accounts assessed a service fee of 18% annually or 1.5% monthly

All material is guaranteed to be as specified and all work to be completed in a workmanlike manner

according to standard practices. All agreements contingent upon strikes, accidents or delays

beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are

fully covered by Workers Compensation Insurance.

Proposal Submitted By:

Kelly D Perlichek - Estimator

The above prices, specifications, and conditions are satisfactory and are hereby accepted.

You are authorized to do the work as specified. Payment will be made as outlined above.

Acceptance of Proposal

Date of Acceptance:

Signature

X

Downtown Minot - Vault
2nd Ave SE Sanitary Sewer

Breakdown

	Quantity	Unit	Unit Price	Total
1 Sawcut Pavement full depth <i>Includes 246 lf asphalt sawcut & 24 lf concrete sawcut</i>	270	LF	\$ 9.00	\$2,430.00
2 Asphalt Removals 33' x 90'	330	SY	\$ 16.00	\$5,280.00
3 Subgrade Prep under asphalt	330	SY	\$ 4.30	\$1,419.00
4 Fabric under asphalt	330	SY	\$ 15.00	\$4,950.00
5 Base under asphalt	330	SY	\$ 13.00	\$4,290.00
6 Replace & Patch Asphalt	330	SY	\$ 63.50	\$20,955.00
7 Curb & Gutter Removal	30	LF	\$ 6.80	\$204.00
8 Curb & Gutter Hand form Replace	30	LF	\$ 80.00	\$2,400.00
9 Sidewalk Removal 30' x 10'	33	SY	\$ 8.00	\$264.00
10 Subgrade Prep under sidewalk	33	SY	\$ 2.00	\$66.00
11 4" base under sidewalk	33	SY	\$ 7.50	\$247.50
12 Replace sidewalk	33	SY	\$ 73.00	\$2,409.00
13 Install 48" manhole 10' depth - Tom's	1	EA	\$ 6,600.00	\$6,600.00
14 Install 48" manhole additional depth - Tom's	8	LF	\$ 200.00	\$1,600.00
15 San. sewer connection to existing manhole - Tom's	2	EA	\$ 2,800.00	\$5,600.00
16 Street Sweeping	2	HR	\$ 190.00	\$380.00
17 Traffic Control - Type 3 barricade	6	EA	\$ 135.00	\$810.00
18 Excavation / Backfill of 2 bore pits - Tom's <i>Includes trench box & safety fence</i>	1	LS	\$ 8,360.00	\$8,360.00
19 Pipe Handling and placement into pit - Tom's <i>Includes equipment to move & lower into pit</i> <i>Includes labor to handle & make male to female joint connections in the pit</i>	1	LS	\$ 17,900.00	\$17,900.00
20 Directional Drill 8" sanitary sewer pipe - Stellar <i>Includes hydrovac for locates and drill mud evacuation,</i> <i>Includes 600 lf of 8" SDR-21 restrained joint pvc pipe by certa-flo</i>	527	LF	\$ 98.00	\$51,646.00
21 Directional Drill Support - Strata <i>Includes Strata full time supervision, communications pit to pit and project management</i>	1	LS	\$ 7,800.00	\$7,800.00
22 10% markup on subs <i>\$ 91,706 x 10% = \$ 9,170</i>	1	LS	\$ 9,170.00	\$9,170.00
			Total	\$154,780.50

Dave O'Shea

From: Dave O'Shea
Sent: Thursday, October 01, 2015 9:31 AM
To: lance.meyer@minotnd.org
Cc: Kevin Martin; Dave Schwengler; Kody Jacobsen; Stan Hanson
Subject: FW: 2nd Ave Sanitary Sewer
Attachments: Minot Downtown - 2nd Ave SE Sanitary Sewer.pdf

Lance,

See below and attached revision. We will proceed with the change order prep today with the cost reduction for pipe handling and placement during pull-back.

Dave O'Shea
Civil Engineer
Houston Engineering, Inc.
18 3rd Street SE, Suite 100, Minot, ND 58701
O 701.852.7931 | F 701.858.5655
www.houstoneng.com

This entire message (including all forwards and replies) and any attachments are for the sole use of the intended recipient(s) and may contain proprietary, confidential, trade secret, work-product, attorney-client or privileged information. Any unauthorized review, use, disclosure or distribution is prohibited and may be a violation of law. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message

From: Kelly Perlichek [mailto:Kelly.Perlichek@stratacorporation.com]
Sent: Thursday, October 01, 2015 9:11 AM
To: Dave O'Shea <doshea@houstoneng.com>
Cc: Andrew Engebretson <Andrew.Engebretson@stratacorporation.com>
Subject: 2nd Ave Sanitary Sewer

Dave,
The proposal estimate has been revised as follows:
Pipe Handling and Placement has been reduced to \$ 6,120
Labor and equipment hours had been estimated per the directional drill operators durations.
The appropriate time needed in the receiving pit will only be required during the pull back part of the directional drill operations.
Please contact myself or Andy if you have any further questions.
The pipe will be ordered today and will get an expected delivery date.
Thank You,
Kelly

Kelly D Perlichek
Estimator
Strata Corporation
1225 South Broadway, Minot, ND 58701
Ph. 701.852.4560 Fax 701.852.9202
Cell 701.500.0844

Strata Corporation

1225 South Broadway Minot, ND 58701

office: 701.852.4560 fax: 701.852.9202

Proposal

Proposal Submitted to Address:	Phone:	Date:
City of Minot C/O Houston Engineering		10/01/15
	e-mail:	Attention:
		Dave O'Shea

Project: Minot Downtown Infrastructure Project - 2nd Ave SE Sanitary Sewer

Strata Corporation is pleased to submit the following proposal based upon the information we've received.

2nd Ave SE Sanitary Sewer 53+30 to 58+70 ... \$ 141,823.00

Sawcut, remove & replace asphalt, curb & gutter & sidewalk as required at new manhole

Excavate to designed depths as required for 2 large bore pits and access to existing manholes include trench boxes

Furnish & Install new manhole & casting at 53+34.49

Furnish & Install new 8" SDR 21 Certa Flo pipe

Includes approx. 527 lf of directional drill - pull / place new pipe

Connection to the new manhole and 2 existing manholes

Survey - bore grade stakes every 10' will be furnished by Houston engineering

If rock encountered is significant, additional mud mixing may be required to provide a clean enough hole to pull pipe

We will do all we can to avoid this but we may request payment for these additional mud mixing charges.

Note: There is concern with the ability to pull this pipe, this length. Our best competent efforts will be used to complete.

Strata will not be held responsible for a failed bore due to rocky soils or pipe connection failure.

Add 7 days to the 20 day restriction on 3rd St. closure to adjust for this work scope

General Notes:

Proposal valid for 60 days.

Payment due within 30 days of invoice.

All past due accounts assessed a service fee of 18% annually or 1.5% monthly

All material is guaranteed to be as specified and all work to be completed in a workmanlike manner according to standard practices. All agreements contingent upon strikes, accidents or delays

beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation Insurance.

Proposal Submitted By:

Kelly D Perlichek - Estimator

Acceptance of Proposal

Date of Acceptance:

The above prices, specifications, and conditions are satisfactory and are hereby accepted.

You are authorized to do the work as specified. Payment will be made as outlined above.

Signature

X

Downtown Minot - Vault
2nd Ave SE Sanitary Sewer

Breakdown

	Quantity	Unit	Unit Price	Total
1 Sawcut Pavement full depth <i>Includes 246 lf asphalt sawcut & 24 lf concrete sawcut</i>	270	LF	\$ 9.00	\$2,430.00
2 Asphalt Removals 33' x 90'	330	SY	\$ 16.00	\$5,280.00
3 Subgrade Prep under asphalt	330	SY	\$ 4.30	\$1,419.00
4 Fabric under asphalt	330	SY	\$ 15.00	\$4,950.00
5 Base under asphalt	330	SY	\$ 13.00	\$4,290.00
6 Replace & Patch Asphalt	330	SY	\$ 63.50	\$20,955.00
7 Curb & Gutter Removal	30	LF	\$ 6.80	\$204.00
8 Curb & Gutter Hand form Replace	30	LF	\$ 80.00	\$2,400.00
9 Sidewalk Removal 30' x 10'	33	SY	\$ 8.00	\$264.00
10 Subgrade Prep under sidewalk	33	SY	\$ 2.00	\$66.00
11 4" base under sidewalk	33	SY	\$ 7.50	\$247.50
12 Replace sidewalk	33	SY	\$ 73.00	\$2,409.00
13 Install 48" manhole 10' depth - Tom's	1	EA	\$ 6,600.00	\$6,600.00
14 Install 48" manhole additional depth - Tom's	8	LF	\$ 200.00	\$1,600.00
15 San. sewer connection to existing manhole - Tom's	2	EA	\$ 2,800.00	\$5,600.00
16 Street Sweeping	2	HR	\$ 190.00	\$380.00
17 Traffic Control - Type 3 barricade	6	EA	\$ 135.00	\$810.00
18 Excavation / Backfill of 2 bore pits - Tom's <i>Includes trench box & safety fence</i>	1	LS	\$ 8,360.00	\$8,360.00
19 Pipe Handling and placement into pit - Tom's <i>Includes equipment to move & lower into pit</i> <i>Includes labor to handle & make male to female joint connections in the pit</i>	1	LS	\$ 6,120.00	\$6,120.00
20 Directional Drill 8" sanitary sewer pipe - Stellar <i>Includes hydrovac for locates and drill mud evacuation,</i> <i>Includes 600 lf of 8" SDR-21 restrained joint pvc pipe by certa-flo</i>	527	LF	\$ 98.00	\$51,646.00
21 Directional Drill Support - Strata <i>Includes Strata full time supervision, communications pit to pit and project management</i>	1	LS	\$ 7,800.00	\$7,800.00
22 10% markup on subs $\$ 79,926 \times 10\% = \$ 7,993$	1	LS	\$ 7,993.00	\$7,993.00
			Total	\$141,823.50