

Date of Issuance: July 21, 2015	Effective Date: July 21, 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. Per Field Order #3, add new Schedule C "Item 21 – Installation of 18" ductile iron fittings to deflect the water main around the existing SRT vault on Central Ave", at a LS cost of \$10,481.83. Add 2 days' time to the Milestone 1, 2, and 3 substantial completion dates.
2. Due to the increased demolition quantity of asphalt pavement greater than 7" thick, add 3 days' time to the Milestone 1, 2, and 3 substantial completion dates. Payment for asphalt pavement removal greater than 7" thick will be measured and paid for under Item B-2 and the final contract cost will be adjusted in the final change order.
3. Add new item to Schedule B: "Item 31 – Remove and Dispose of Abandoned 30" x 48" Concrete Duct Bank" at a cost of \$48 per LF at an estimated quantity of 344 LF, for a total cost increase of \$16,512.00. Add 1 day time to the Milestone 1, 2, and 3 substantial completion dates.
4. Add new item to Schedule B: "Item 32 – Remove and Dispose of Abandoned Cast Iron Steam Piping" at a cost of \$22 per LF at an estimated quantity of 3,000 LF, for a total cost increase of \$66,000.00. Only steam piping ≥ 2 inch size will be measured for payment. Add 3 days' time to the Milestone 1, 2, and 3 substantial completion dates.
5. Per Field Order #4, add new item to Schedule B: "Item 33 – Remove and Dispose of Butterfly Valve and Manhole" at a LS cost of \$550.
6. Add new item to Schedule B: "Item 34 – Remove and Dispose of Abandoned NSP/SRT Brick Vault" at a LS cost of \$400.
7. Per Field Order #4, add new item to Schedule F: "Item 43 – Drilling into existing PCC Pavement for 1.25" Dowel Placement" at a cost of \$12 per EA at an estimated quantity of 96, for a total cost increase of \$1,152.00.

Attachments: Contractor's request for Change Order correspondence with Engineer's review and recommendation to Owner with supporting documentation.

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] [Decrease] from previously approved Change Orders No. <u>N/A</u> to No. <u>N/A</u> : \$ <u>0.00</u>	[Increase] [Decrease] from previously approved Change Orders No. <u>N/A</u> to No. <u>N/A</u> : Substantial Completion: _____ Ready for Final Payment: _____

Contract Price prior to this Change Order: \$ <u>14,395,218.10</u>	Contract Times prior to this Change Order: 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 of this Change Order: \$ <u>95,095.83</u>	Increase of this Change Order: 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 incorporating this Change Order: \$ <u>14,490,313.93</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 23, 2015</u> Ready for Final Payment: <u>December 28, 2015</u>

RECOMMENDED:		ACCEPTED:		ACCEPTED:	
By: <u>D. P. O'Shea</u>	By: <u>[Signature]</u>	By: <u>[Signature]</u>			
Engineer (if required)	Owner (Authorized Signature)	Contractor (Authorized Signature)			
Title: <u>Project Manager</u>	Title: <u>City Engineer</u>	Title: <u>Project Manager</u>			
Date: <u>7/21/2015</u>	Date: <u>7/23/15</u>	Date: <u>7-22-2015</u>			



May, 21 2015

PO Box 13500
Grand Forks, ND 58208-3500
701.746.7491

Mr. Dave O'Shea, PE
Houston Engineering, Inc.
18 3rd Street SE
Minot, ND 58701

Subject: *City of Minot Downtown Infrastructure Improvements Project – Phase 1
Field Order No. 3 - Water and Sewer Reroute on Central Ave*

Dear Mr. O'Shea,

In regards to the updated drawings SS-2 (30), SS-3 (31), SS-4 (32), SS-11 (39), SS-13 (41) and W-4 (51); below we have included the additional costs.

Also, we are requesting an additional 2 days to complete the work. Additional time will be required to dig around the existing vault, installing additional materials and backfilling will be slowed due to the limited space around existing structures.

Tom's Backhoe

Add four (4) 18" 45 Degree Elbows to relocate Watermain 1 LS \$ 9,528.94

Strata

10% Mark up 1 LS \$ 952.89

TOTAL \$ 10,481.83

If you have any questions or need further clarification let me know.

Respectfully Submitted,

Andrew Engebretson
Project Manager

Dave O'Shea

From: Dave O'Shea
Sent: Thursday, June 04, 2015 4:00 PM
To: lance.meyer@minotnd.org
Cc: Dave Schwengler; Kody Jacobsen; Stan Hanson; 'Lyndsay Ulrickson'; Irwin, Randall L. (irwinrl@cdmsmith.com)
Subject: Downtown - Change Order request for 18" Water Main fittings
Attachments: Downtown Infrastructure Improvement Project - 18 inch fittings.pdf; 18 inch fittings IGE.xlsx

Lance,

In response to Field Order 3, attached is Strata's change order request to add four 18" Restrained MJ 45 degree bends to divert the new 18" water main around the existing (active) SRT vault on Central Ave. The SRT vault connects the concrete duct banks as they cross Central Ave coming from the alleys. We were aware of the duct banks running north and south crossing Central Ave, but not the large vault that has caused the water sanitary sewer mains to be realigned.

We have reviewed their request and have prepared the attached independent estimate for a price comparison. Based on our independent estimate, which includes materials quotes from HD Supply, we feel that the proposed cost of \$10,481.83 is reasonable. Given the labor-intensive work involved to align and restrain the fittings, and the need to expose the SRT vault on its north side, and then backfill up against it, we also agree that a 2 day time extension for Milestone 1 is a reasonable request.

With your concurrence we will prepare the change order draft. Please let me know if you would like further discussion.

Regards,
Dave

Dave O'Shea, PE

Civil Engineer

Houston Engineering, Inc.

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Minot Downtown Infrastructure Improvements Project - Phase 1

Change Order Request to Add Four 18" 45 Degree Bends to Avoid SRT Vault

HMjv Independent Estimate:

Materials

18" FBE MJ 45° Bend	4	EA	\$ 650.00	\$ 2,600.00
18" MEGA Lug	8	EA	\$ 275.00	\$ 2,200.00
MJ Gasket	8	EA	\$ 19.00	\$ 152.00
SS T-head Bolts	48	EA	\$ 4.75	\$ 228.00
Corten T-head Bolts	48	EA	\$ 2.50	\$ 120.00
Poly Wrap	1	LS	\$ 15.00	\$ 15.00
Ready Mix Concrete	4	CY	\$ 100.00	\$ 400.00

Subtotal Materials				\$ 5,715.00
7.5% Sales Tax				\$ 428.63
Shipping				\$ 250.00
Total Materials				\$ 6,393.63

Labor

Operator	6	HR	\$ 32.00	\$ 192.00
Operator OT	0	HR	\$ 48.00	\$ -
Laborer	10	HR	\$ 25.00	\$ 250.00
Laborer OT	2	HR	\$ 37.50	\$ 75.00

Subtotal Labor				\$ 517.00
30% Labor Burden				\$ 155.10
Total Labor				\$ 672.10

Equipment

Tracked Excavator	6	HR	\$ 250.00	\$ 1,500.00	additional to excavate and backfill around the SRT vault included in cost of water main pipe saws for cuts between fittings, jumping jacks next to vault, etc
Sheepsfoot Compactor	0	HR	\$ 75.00	\$ -	
Tool Van	2	Day	\$ 200.00	\$ 400.00	
Total Equipment				\$ 1,900.00	

Subtotal Underground Subcontractor				\$ 8,965.73
Add 15% Subcontractor OH & Profit				\$ 1,344.86
Total Subcontractor				\$ 10,310.58

Add 10% Prime Contractor OH & Profit				\$ 1,031.06
TOTAL CHANGE ORDER ESTIMATE				\$ 11,341.64



May, 21 2015

PO Box 13500
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701.746.7491

Mr. Dave O'Shea, PE
Houston Engineering, Inc.
18 3rd Street SE
Minot, ND 58701

Subject: *City of Minot Downtown Infrastructure Improvements Project – Phase 1
Additional Paving Thickness*

Dear Mr. O'Shea,

I am writing to request a time extension of 3 days due to additional quantity of extra thick pavement. The originally anticipated thickness of the pavement was 4-7 inches on Central Avenue, but the actual thickness has varied between 11 inches and over 17 inches, plus some areas have concrete below as well. To remove and load this extra material can take three times as long. The extra time is loading the extra material, hauling extra material, segregation of concrete and asphalt all while working in a tight area that has existing utilities we are trying not to damage.

We are all aware the schedule dates on this project are very tight and do not allow for delays. We are working hard with you and your team to help identify issues so they impact the project schedule as little as possible. If you would like to discuss this in person I will be available at your convenience.

Respectfully Submitted,

Andrew Engebretson
Project Manager

Dave O'Shea

From: Dave O'Shea
Sent: Tuesday, June 23, 2015 8:30 AM
To: lance.meyer@minotnd.org
Cc: Dave Schwengler; Kody Jacobsen; Stan Hanson
Subject: Downtown - Strata change order request - asphalt pavement removal
Attachments: Downtown Infrastructure Improvement Project - Asphalt removal thickness.pdf; asphalt demolition IGE 6-23-15.xlsx

Lance,

Per the attached letter, Strata is requesting a 3 day time extension due to the thicker asphalt sections encountered on Central Ave between 3rd Street and Main Street. Also, as previously verbally discussed, Strata has proposed the use of Demolition Schedule Item B-2, and the unit price of \$16/SY, as the contract means to pay for the removal of asphalt paving sections thicker than 7".

On the issue of contract time, measured demolition quantities reflect that of the 7,146 SY of pavement removal completed through June 15th, 6,682 SY has been thicker than 7". With >90% of the pavement removal greater than 7", a three day Milestone 1 time extension is reasonable.

On the issue of contract cost, attached is our independent estimate spreadsheet of the level of construction effort taken to remove the thicker asphalt pavement. We chose two of the actual days used for pavement removal for comparison and applied the estimated hourly equipment and labor costs. We have noted that on June 13th, Strata had a very productive day (Saturday), which resulted in a lower T&M unit price. May 13th is more of a reflection of their typical day with a T&M unit price slightly higher than the proposed \$16/SY. Based on this analysis and comparison, and considering that the advance labor cost to loosen the pavement around castings was not taken into account, applying a contract unit price of \$16/SY (Item B-2) is a reasonable method to pay for the work.

With your approval, we will include this on Change Order #1 which we are currently preparing, and we will incorporate this email and attachments as the justification.

Thanks,
Dave

Dave O'Shea, PE

Civil Engineer

Houston Engineering, Inc.

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Minot Downtown Infrastructure Improvements Project - Phase 1

Change Order Request re: Asphalt Pavement Demolition

HMjv Independent Estimate:

Strata Demolition Crew - Asphalt Pavement:

<u>Equipment:</u>	<u>Quantity</u>	<u>Unit Hourly Rate</u>	<u>Total Hourly Rate</u>	
Volvo 330 Excavator	1	\$ 215.00	\$ 215.00	
Volvo Front End Loader	1	\$ 140.00	\$ 140.00	
Skid Steer Loader	1	\$ 55.00	\$ 55.00	
Side Dump Truck	4	\$ 140.00	\$ 560.00	
Job site Pickup Trucks	3	\$ 35.00	\$ 105.00	
Job Site Tool Van	1	\$ 25.00	\$ 25.00	
Side Dump Truck Mileage			\$ 224.00	2 trips/hour/truck at 7 miles/round trip at \$4/mile
Total Equipment Cost/Hour			\$ 1,324.00	

Labor:

Equipment Operator	3	\$ 28.00	\$ 84.00
Truck Driver	4	\$ 26.00	\$ 104.00
Superintendent	1	\$ 45.00	\$ 45.00
Subtotal Labor/Hour			\$ 233.00
Labor Burden @40%			\$ 93.20
Total Labor Cost/Hour			\$ 326.20

Gravel Products Tipping Fee

\$ -

Daily Comparisons:**5/13/15: Strata removed 1,003 SY of asphalt pavement >7" thickness over 8 hours, with 1 hr extra labor on each side to startup and shut down**

Equipment	\$ 10,592.00
Labor	\$ 2,609.60
OT Labor	\$ 978.60
Subtotal	\$ 14,180.20
10% Overhead	\$ 1,418.02
Subtotal	\$ 15,598.22
10% Profit	\$ 1,559.82
Total Daily Cost	\$ 17,158.04
Cost per SY	\$ 17.11

6/13/15: Strata removed 1,989 SY of asphalt pavement >7" thickness over 13 hours, with 1 hour extra labor on each side to start up and shut down

Equipment	\$ 17,212.00
Labor	\$ 2,609.60
OT Labor	\$ 3,425.10
Subtotal	\$ 23,246.70
10% Overhead	\$ 2,324.67
Subtotal	\$ 25,571.37
10% Profit	\$ 2,557.14
Total Daily Cost	\$ 28,128.51
Cost per SY	\$ 14.14



May, 21 2015

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Mr. Dave O'Shea, PE
Houston Engineering, Inc.
18 3rd Street SE
Minot, ND 58701

Subject: *City of Minot Downtown Infrastructure Improvements Project – Phase 1
Field Order No. 2 - SRT Manhole/Duct Removal and Additional Dowel Drilling*

Dear Mr. O'Shea,

Below you will find the unit pricing discussed in Field Order No. 2

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Price</u>
Item 1.	Removal of 18" by 18" duct bank <i>-price includes: Removing duct bank approximately 18" by 18" and replacing the void With granular fill, gravel etc.</i>	LF	\$ 26.25
Item 2.	Removal of Manholes approx. 4' x 6' x 10' CLSM Backfill for Vaults	EA CY	\$3,200.00 \$ 110.00
Item 3.	Drilling into Existing PCC Pavement 1.25" Dowels	EA	\$ 12.00

If you have any questions or need further clarification let me know.

Respectfully Submitted,

Andrew Engebretson
Project Manager

Dave O'Shea

From: Dave O'Shea
Sent: Thursday, July 09, 2015 8:31 AM
To: lance.meyer@minotnd.org
Cc: Kody Jacobsen; Stan Hanson; Dave Schwengler; Kevin Martin
Subject: Downtown - Strata Request for Change Order
Attachments: Downtown Infrastructure Improvement Project - Change Order #2.pdf

Lance,

In response to Field Orders 2 and 4, attached is a change order request from Strata. Our review comments are as follows:

Item #1: Upon further discussion with Andy Engebretson earlier this week, the actual quantity of 18x18 duct bank encountered was very small, so this item has been pulled from change order consideration. The vast majority of concrete duct bank that was encountered was the larger 30x48, and that change order request and evaluation will be covered under a different email later today.

Item #2: This item is on hold pending a more thorough review by Strata and HEI field staff as to how the NSP/SRT vault was actually abandoned as it is not believed to have been abandoned in the way that their cost proposal is structured, i.e., since it was not in the way of new utilities, we believe that it was abandoned in place. There is already a contract unit price for CLSM (\$110 per CY), so no need for a change order for any flowable fill used.

Item #3: While the contract drawings reflect demolition of existing PCC pavement on 3rd Street at the Central Ave intersection, the drawings do not contain a pavement joint detail for the patch at that intersection. As a result, Field Order #4 added new drawing JT-4A to incorporate pavement joints and pedestrian ramp details at the intersection of Central Ave East and 3rd Street. The joint plan at this intersection reflects drilling for 96 (1.25") dowels into the existing PCC pavement on 3rd Street to complete the transverse construction joints. Since there is no contract unit price for dowel drilling into existing pavement, we agree that this should be at additional cost. We have compared the proposed cost of \$12 each for dowel drilling with the NDDOT 2014 prices (Spec 570/Code 424) which reflects an average unit price of \$12.65 each. Therefore, we feel that the proposed cost of \$12 each is reasonable.

With your concurrence we will include Item #3 on Change Order #1 which we should have prepared for review later today. Please let me know if you would like further discussion.

Thanks,
Dave

Dave O'Shea, PE

Civil Engineer

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June, 5 2015

PO Box 13500
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Mr. Dave O'Shea, PE
Houston Engineering, Inc.
18 3rd Street SE
Minot, ND 58701

Subject: *City of Minot Downtown Infrastructure Improvements Project – Phase 1
Steam Pipe Removal, Concrete Encased Conduit and Valve Removal*

Dear Mr. O'Shea,

Below you will find the unit pricing for removal of existing structures.

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Price</u>
Item 1.	Remove and Dispose - 30" by 4' Concrete Encased Conduit	LF	\$ 55.00
Item 2.	Remove and Dispose – Steam Piping	LF	\$ 22.00
Item 3.	Removal of 12" Butterfly Valve and Manhole	LS	\$ 550.00

If you have any questions or need further clarification let me know.

Respectfully Submitted,

Andrew Engebretson
Project Manager

Dave O'Shea

From: Dave O'Shea
Sent: Friday, July 17, 2015 9:01 AM
To: lance.meyer@minotnd.org
Cc: Dave Schwengler; Kody Jacobsen; Stan Hanson; Kevin Martin
Subject: Downtown - Change Order Request
Attachments: Downtown Infrastructure Improvement Project - Extra Removals.pdf; Concrete Duct Bank Removal and Disposal - IGE.xlsx; Steam Piping Removal and Disposal - IGE.xlsx; Change Order One - draft.doc

Attached is a change order request from Strata for some extra removals. These are the last items recommended to be included on Change Order #1 (initial draft is attached). Our review comments are as follows:

Item #1: A large (30"x48") abandoned NSP concrete duct bank was encountered along Central Ave, and this duct bank ran for 344 LF. This duct bank was removed and disposed of off-site with work beginning on May 26th and ending on June 13th. Upon review, we do not feel that the proposed price of \$55 per LF is representative of the level of work required to remove and dispose of the duct bank. Attached is our estimate of labor and equipment hours to complete the work. This estimate incorporates all labor hours as overtime hours and also includes a \$8/hr. per diem allowance as members of core crew are receiving \$80 per day per diem. Subsequently, we have met with Strata and Tom's and after discussion they have lowered their price to \$48 per LF, which we feel is a more reasonable cost to complete the work. This will result in a change order cost increase of \$16,512 (unless additional duct bank of this size is encountered elsewhere on the project). Strata has requested a one day time extension, which at the removal rate, is reasonable.

Item #2: Unsurprisingly, the Contractor has encountered abandoned cast iron steam lines for removal. The steam lines vary in size from very small (<2") up to 14". Lacking adequate location and size information, and whether or not the steam lines – if they existed – would reside in tunnels or direct bury, the design decision was made not to reflect the presence of steam lines for removal. The Contractor has proposed a removal unit cost of \$22 per LF (regardless of pipe size). Attached is our estimate of labor and equipment hours to complete the work. This estimate is based on an hourly removal rate of 60 LF per hour and incorporates all labor hours as overtime hours and also includes a \$8/hr. per diem allowance. This estimate reflects an estimated cost of \$20.80 per LF. Subsequently, we have met with Strata and Tom's and after discussion they have agreed that, in return for a steam pipe removal unit price of \$22/LF, that any steam lines or abandoned conduit of any type smaller than 2" will be incidental. Through July 4th, approximately 1,880 LF of steam piping >2" has been removed. For purposes of the change order, we recommend an estimated quantity of 3,000 LF (to be adjusted with the final change order), resulting in a change order cost increase of \$66,000. Strata has requested a 3 day time extension, which at the removal rate, is reasonable.

Item #3: The proposed BFV MH removal cost is reasonable when compared to the contract unit cost for removal of sanitary sewer manholes.

With your concurrence we will include each of these items on Change Order #1, the initial draft of which I have also attached. Please let me know if you would like further discussion.

Thanks,
Dave

Dave O'Shea
Civil Engineer
Houston Engineering, Inc.
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Minot Downtown Infrastructure Improvements Project - Phase 1

Change Order Request to Remove and Dispose of Concrete Duct Bank

HMjv Independent Estimate:

Subcontractor Demolition Crew - Concrete Encased Conduit: Removal Rate of 40 feet per hour

<u>Equipment:</u>	<u>Quantity</u>	<u>Unit Hourly Rate</u>	<u>Total Hourly Rate</u>
Hydraulic Excavator	1	\$ 185.00	\$ 185.00
Front End Loader	1	\$ 125.00	\$ 125.00
Side Dump Truck	2	\$ 120.00	\$ 240.00
Total Equipment/Hour			\$ 550.00

<u>Labor:</u>			
Equipment Operator	2	\$ 28.00	\$ 56.00
Truck Driver	1	\$ 26.00	\$ 26.00
Superintendent	2	\$ 40.00	\$ 80.00
Subtotal Labor/Hour			\$ 162.00
Labor Burden @35%			\$ 56.70
Total Labor/Hour			\$ 218.70

Landfill Inert Tipping Fee (per ton)	29	\$ 20.00	\$ 580.00
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40' Section of Removal per Hour:

Equipment	\$ 550.00
Labor	\$ 218.70
Inert Tipping Fee	\$ 580.00
Subtotal	\$ 1,348.70
10% Subcontractor Overhead	\$ 134.87
Subtotal	\$ 1,483.57
10% Subcontractor Profit	\$ 148.36
Total Subcontractor Cost	\$ 1,631.93
Add 10% GC OH&P Markup	\$ 163.19
	\$ 1,795.12

Cost per foot	\$ 44.88
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Minot Downtown Infrastructure Improvements Project - Phase 1

Change Order Request to Remove and Dispose of Abandoned Steam Piping

HMjv Independent Estimate:

Subcontractor Demolition Crew - Steam Piping Removal Rate of 60 feet per hour

<u>Equipment:</u>	<u>Quantity</u>	<u>Unit</u>	<u>Hourly Rate</u>	<u>Total Hourly Rate</u>	
Hydraulic Excavator	1	\$	215.00	\$	215.00
Front End Loader	1	\$	145.00	\$	145.00
Side Dump Truck	1	\$	120.00	\$	120.00
Total Equipment/Hour				\$	480.00
<u>Labor:</u>					
Equipment Operator	2	\$	53.00	\$	106.00
Truck Driver	1	\$	50.00	\$	50.00
Laborers	2	\$	50.00	\$	100.00
Superintendent	1	\$	71.00	\$	71.00
Subtotal Labor/Hour				\$	327.00
Labor Burden @40%				\$	130.80
Total Labor/Hour				\$	457.80
Landfill Inert Tipping Fee (per ton)	0	\$	20.00	\$	-
					(Subcontractor Salvage)

60' Section of Removal per Hour:

Equipment	\$	480.00
Labor	\$	457.80
Inert Tipping Fee	\$	-
Subtotal	\$	937.80
10% Subcontractor Overhead	\$	93.78
Subtotal	\$	1,031.58
10% Subcontractor Profit	\$	103.16
Total Subcontractor Cost	\$	1,134.74
Add 10% GC OH&P Markup	\$	113.47
	\$	1,248.21

Cost per foot	\$ 20.80
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