

MAYOR JIM GRAY



**LEXINGTON**

CHARLES MARTIN  
DIRECTOR  
WATER QUALITY

Memorandum

To: Urban County Council  
Martha Allen, Council Clerk

From: Courtney Thacher  
Administrative Specialist Principle for Remedial Measures Program

Date: March 16, 2016 CT

Re: Change Order No. 3 for West Hickman Main Trunk A RMP Project

This memorandum is to notify the Urban County Council of Change Order No. 3 for the West Hickman Main Trunk A Remedial Measures Project. Per CAO Policy No. 15R, Tier 2 allows the Remedial Measures Program Manger along with the Directors of Water Quality and Purchasing to approve Change Orders of less than 10% of the cumulative contract award. Change Order No. 3 increases the contract amount by \$139,437.96, bringing the cumulative change of all three Change Orders to \$212,783.99 or 5.6%, and increases the contract time by 238 calendar days.

Should you have any questions, please contact me at 425-2439.

pc: Vernon Azevedo, P.E., Remedial Measures Program Manager  
Dowell Hoskins-Squier, Commissioner  
Charles Martin, P.E., Director of Water Quality  
Todd Slatin, Director of Purchasing  
Mark Fischer, P.E., Project Manager  
File



**SANITARY SEWERS REMEDIAL MEASURES PLAN CONTRACT CHANGE ORDER FORM**

Project Name: West Hickman Trunk Sewer A  
Contractor: Garney Companies, Inc.  
Contract Number: 153-2014  
RMP Project ID: WH2  
Change Order ID Number: 3  
Applicable Tier: 2

**CHANGE ORDER DETAILS**

Contract Amount	<u>\$3,870,564.03</u>	Contract Time	<u>445 c days</u>
Original Contract Amount:	<u>\$3,797,218.00</u>	Original Contract Time	<u>270 c days</u>
Change in Contract Amount	<u>\$139,437.96</u>	Change in Contract Time	<u>238 c days</u>
New Contract Amount:	<u>\$4,010,001.99</u>	New Contract Time	<u>683 c days</u>

**JUSTIFICATION FOR CHANGE ORDER**

See attached.

**REQUIRED SIGNATURES**

Tier 1 Vernon Arzendo  
Remedial Measures Plan or Construction Manager

3-10-16  
Date

Tier 2  
Charles [Signature]  
Remedial Measures Plan or Construction Manager  
[Signature]  
Director of the Division of Water Quality  
[Signature]  
Director of the Division of Purchasing

Date  
3-10-16

Date  
3-14-16  
Date

**URBAN COUNTY COUNCIL NOTIFICATION**

[Signature]  
Employee Submitting Notification

3/16/16  
Date

# Change Order No. 3

Remedial Measures Plan (RMP)

Division of Water Quality

Lexington-Fayette Urban County Government (LFUCG)

Date of Issuance: 17 Feb 2016	Effective Date: 17 Feb 2016
Owner: Lexington-Fayette Urban County Government (LFUCG)	Owner's Bid No.: 103-2014
Contractor: Garney Companies, Inc.	Contractor's Project No.: 3207
Engineer: ICA Engineering, Inc.	Engineer's Project No.: 1311100
Project: West Hickman Trunk Sewer - A	Contract Name:

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

This change order, Change Order No. 3 (CO#3), provides for payment for additional Work. This CO#3 also allows for credits given by the Contractor to the Owner for changes in the Work.

- Item No. 1 – Add: Stream Bed Cut-Off Walls
- Item No. 2 – Add: 36-inch RCP Point Repair
- Item No. 3 – Add: Parking Lot Restoration
- Item No. 4 – Add: Asphalt Trail Restoration
- Item No. 5 – Add: Manhole Grade Adjustments
- Item No. 6 – Credit: Elimination of Spoil Pile Hauling
- Item No. 7 – Add: Fall-Through Protection

This Change Order, CO#3, consists of 19 pages, including attachments.

Attachments: Attachment 1 – Description of Changes in the Work ; Attachment 2 – Item Tally and Summary for Changes in the Work; Attachment 3 – Stream Bed Cut-Off Walls; Attachment 4 – RCP Point Repair; Attachment 5 – Parking Lot Restoration & Asphalt Trail Restoration; Attachment 6 – Manhole Grade Adjustments; Attachment 7 – Elimination of Spoil Pile Hauling; Attachment 8 – Fall-Through Protection

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES <i>[note changes in Milestones if applicable]</i>
Original Contract Price:  \$ <u>3,797,218.00</u>	Original Contract Times: Substantial Completion: <u>270 calendar days</u> Ready for Final Payment: <u>14 May 2015</u> <span style="text-align: right;">dates</span>
[Increase] [Decrease] from previously approved Change Orders No. <u>1</u> to No. <u>2</u> :  \$ <u>73,346.03</u>	[Increase] [Decrease] from previously approved Change Orders No. <u>1</u> to No. <u>2</u> : Substantial Completion: <u>270 + 78 + 97 calendar days</u> Ready for Final Payment: <u>445 calendar days</u> <span style="text-align: right;">days</span>
Contract Price prior to this Change Order:  \$ <u>3,870,564.03</u>	Contract Times prior to this Change Order: Substantial Completion: <u>5 November 2015</u> Ready for Final Payment: <u>5 November 2015</u> <span style="text-align: right;">dates</span>
[Increase] [Decrease] of this Change Order:  \$ <u>139,437.96</u>	[Increase] [Decrease] of this Change Order: Substantial Completion: <u>238 calendar days</u> Ready for Final Payment: <u><del>713</del> calendar days</u> <span style="text-align: right;"><u>683</u> days</span>
Contract Price incorporating this Change Order:  \$ <u>4,010,001.99</u>	Contract Times with all approved Change Orders: Substantial Completion: <u><del>713</del> calendar days <u>683 c. days</u></u> Ready for Final Payment: <u>30 June 2016</u> <span style="text-align: right;">dates</span>

RECOMMENDED (Engineer):  
By: *Muhammad A. Khan*  
Title: ICA Engineering, Inc.  
Date: 02/26/16

ACCEPTED (Contractor):  
By: *Stephen P. Ford*  
Title: Stephen P. Ford, Vice President  
Date: 02/23/2016

ACCEPTED (Owner: LFUCG)  
By: *Vernon Azavedo*  
Title: REMEDIAL MEASURES PROGRAM MGR  
Date: 3-10-16

APPROVED by Funding Agency (If applicable):  
By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Attachment 1  
To Change Order No. 3  
West Hickman Trunk Sewer -A

**Item Descriptions**

**Item No. 1: Stream Bed Cut-Off Walls**—the Engineer has recommended and the Owner has requested an addition to the Work to install cut-off walls on either side of the stream crossing at Station 22+90. The cut-off walls will serve as dams to minimize or eliminate the escape of stream water into the pipeline trench constructed as part of the Work. The cut-off walls shall be constructed in accordance with the details provided in Attachment 3 and hereby incorporated into the Contract Documents. Lump sum, \$35,055.00 as shown in Attachment 3.

**Item No. 2: 36-Inch Reinforced Concrete Pipe Point Repair**—retrieval of a pipe plug by the Contractor required access to an existing 36-inch RCP owned and maintained by the Owner. The retrieval process manifested critical repairs (to include cleanout of debris from the existing RCP) needed for the Owner's sewer infrastructure. This item includes full compensation to the Contractor of the labor and materials expended to clean and repair the existing RCP line. The Work is hereby amended to include this point repair and the point repair is included in the warranty of the Work. Lump sum, \$30,400.33 as shown in Attachment 4.

**Item No. 3: Parking Lot Restoration**— Additional parking lot improvements were required due to impacts from the construction efforts. The cost assigned to this item in this CO#3 is in addition to the Bid Item No. 38. Lump sum, \$10,843.00 (\$45,843 less \$35,000) as shown in Attachment 5.

**Item No. 4: Asphalt Trail Restoration**— Additional asphalt walking trail improvements were required due to impacts from the construction efforts. Lump sum, \$61,817.54 as shown in Attachment 5.

**Item No. 5: Manhole Grade Adjustments**—Manholes 3A, 3B and 4A, as installed in accordance with the Work, exist in a swale area that will likely pond water and snow melt from precipitation events. To minimize the introduction of this surface water into the manholes named, the Owner has requested the Contractor install risers on each of the three manholes, 3A, 3B and 4A. The risers (concrete rings) shall raise the manhole lid/top 12 inches and shall be installed as other manhole sections as per the Specifications. Lump sum, \$2,205.90 as shown in Attachment 6.

**Item No. 6: Credit - Elimination of Spoil Pile Hauling**—One of the Contract requirements was that the Contractor would create and maintain a spoil pile for the job along the access road alignment. At the end of the Project, the Contractor was required to remove and dispose of the spoils, and to restore the spoil pile area to pre-disturbance conditions. The Owner agreed to allow the Contractor to break-up, spread and cover the spoil pile with seed and straw efforts, while maintaining ESC measures. Lump sum, \$-8,544.71, as shown in Attachment 7.

**Attachment 1**  
**To Change Order No. 3**  
**West Hickman Trunk Sewer - A**

**Item No. 7: Fall-Through Protection**—the Owner requested the Contractor supply and install fall-through protection on three (3) of the structures installed as part of the Work. Manholes/vaults 5A, 6A and 13A are to be retrofitted with Halliday Model No. X2SA72A36ACABA hatch net and necessary appurtenances. Lump sum, \$7,660.90 as shown in Attachment 8.

Attachment 2  
to Change Order No. 3  
West Hickman Trunk Sewer - A

Item Tally and Summary

Change Order #3						
item no.	description	unit	estimated quantity	unit price	contract change amount	comments
1	Stream Bed Cut-Off Walls	CY	171.00	\$205.00	\$35,055.00	
2	36-inch RCP Point Repair	LS	1	\$30,400.33	\$30,400.33	
3	Parking Lot Restoration	LS	1	\$10,843.00	\$10,843.00	\$45,843.00 less \$35,000 (Item 38)
4	Asphalt Trail Restoration	LS	1	\$61,817.54	\$61,817.54	
5	Manhole Grade Adjustments	LS	1	\$2,205.90	\$2,205.90	
6	Elimination of Spoil Pile Hauling	LS	1	-\$8,544.71	-\$8,544.71	
7	Fall Through Protection	LS	1	\$7,660.90	\$7,660.90	
				total contract price change	\$139,437.96	

Item 3 and Item 4 are combined in the Contractor's cost proposal in Attachment 5. The two costs totaled \$107,660.54; however, of that, \$35,000 is included in the Base Bid as Item #38.

**Attachment 3  
to Change Order No. 3  
West Hickman Trunk Sewer – A**

**Stream Bed Cut-Off Walls**

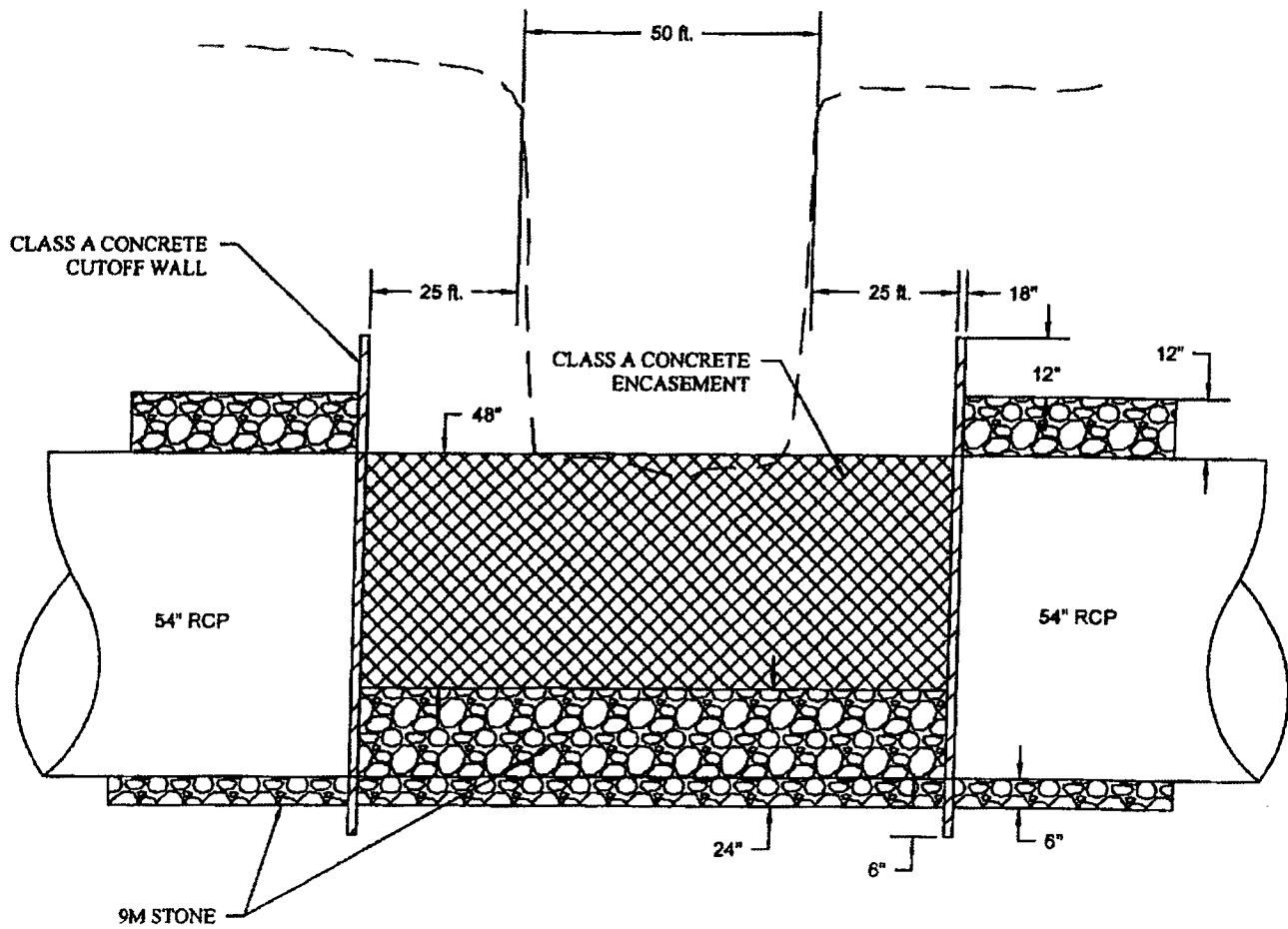
**West Hickman Trunk Sewer - A**  
**Lexington Fayette Urban County Government**  
**Lexington, KY**  
**Garney Project No. 3207**

Date  
 6/29/2015 West Hickman Creek - Cutoff Wall

Quantity	Units	Price Per	Amount
130.00	CY	\$ 205.00	\$ 26,650.00
Total of Changes			\$ -
			<u>\$ 26,650.00</u>

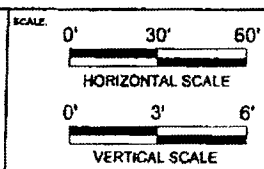
Gamey is proposing a unit price of \$205 per CY installed for the cut-off walls detailed on the attached drawing. The quantity above is only an estimate and may vary depending on site conditions. Field measurements and vendor delivery tickets will be used for final unit quantity. Unit price includes all labor, equipment, and materials required to completed the detailed work.





**ICA**  
Engineering

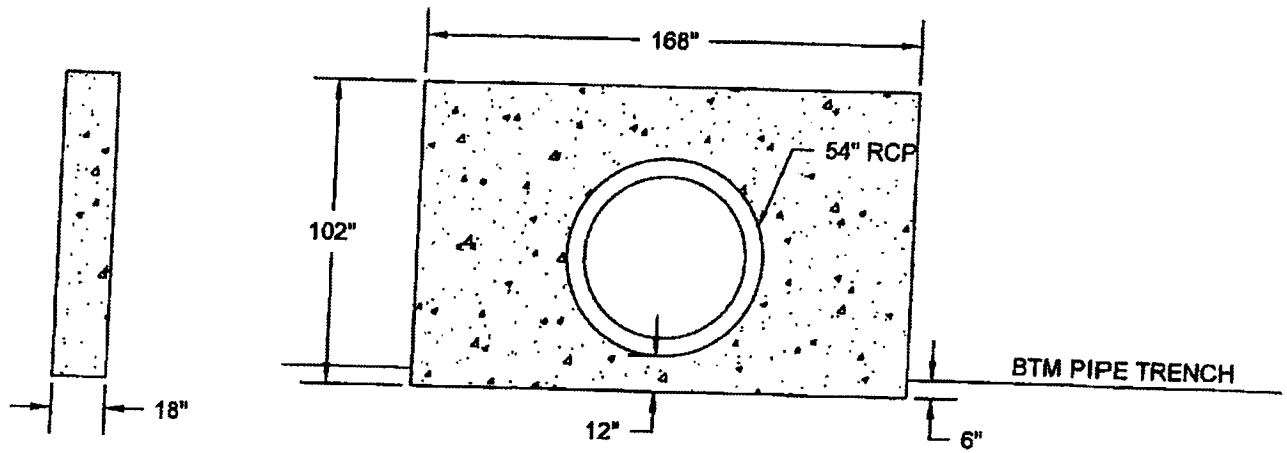
2330 In an Circle Drive  
Parsippany, N.J. 07054  
973.443.9901  
www.icaseng.com



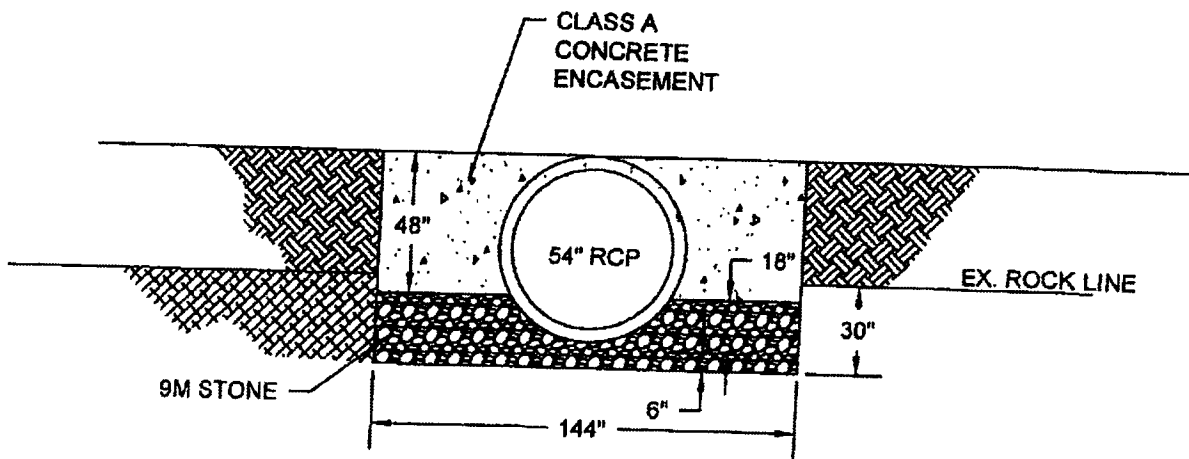
OWNER:  
**LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT**

PROJECT:  
**WEST HICKMAN TRUNK SEWER - A**  
**LFUCG BID No. 103-2014 RMP ID No. GR1-WH-2**

DRAWING:  
**CUTOFF WALL AND TRENCH DETAILS - PAGE 1**



**CONCRETE CUTOFF WALL**

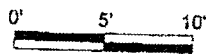


**TRENCH DETAIL**

**ICA**  
Engineering

2550 Irvin Cobb Drive  
Palmdale, KY 42001  
270.244.9691  
www.icaseng.com

SCALE



OWNER  
**LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT**

PROJECT:  
**WEST HICKMAN TRUNK SEWER - A**  
**LFUCG BID No. 103-2014 RMP ID No. GR1-WH-2**

DRAWING:  
**CUTOFF WALL AND TRENCH DETAILS - PAGE 2**

**Attachment 4  
to Change Order No. 3  
West Hickman Trunk Sewer – A**

**36-inch RCP Point Repair**

**West Hickman Trunk Sewer - A**  
**Lexington Fayette Urban County Government**  
**Lexington, KY**  
**Garney Project No. 3207**

Date	Description	Quantity	Units	Price Per	Amount
9/16/2015	36-inch RCP Point Repair	1	LS	\$ 2,335.47	\$ 2,335.47
9/17/2015	36-inch RCP Point Repair	1	LS	\$ 8,329.86	\$ 8,329.86
9/18/2015	36-inch RCP Point Repair	1	LS	\$ 6,677.05	\$ 6,677.05
9/23/2015	36-inch RCP Point Repair	1	LS	\$ 13,057.95	\$ 13,057.95
<b>Total of Changes</b>					<b>\$ 30,400.33</b>

**Attachment 5  
to Change Order No. 3  
West Hickman Trunk Sewer – A**

**Parking Lot Restoration  
&  
Asphalt Trail Restoration**



**Attachment 6  
to Change Order No. 3  
West Hickman Trunk Sewer – A**

**Manhole Grade Adjustments**



Date: 10/27/2015

Garney Project No. 3207

Description: MH-3A ALT, MH-3B ALT, and MH-4A Risers

Craft / Name	Hourly Rate w/FRINGE		HOURS		Subtotal Labor	Totals
	Regular	Overtime	Regular	Overtime		
Gary Goff / Sr Project Mgr	\$ 71.15	\$ 106.73			\$ -	
Zack Bloomfield / Project Mgr	\$ 58.41	\$ 84.62			\$ -	
Rob Grant / Superintendent	\$ 69.41	\$ 104.12	2.0		\$ 138.82	
Cole Jordan / Field Engineer	\$ 46.86	\$ 70.29			\$ -	
Operator	\$ 53.69	\$ 80.54	7.0		\$ 375.88	
Operator	\$ 53.69	\$ 80.54			\$ -	
Operator	\$ 53.69	\$ 80.54			\$ -	
Pipelayer	\$ 40.93	\$ 61.39			\$ -	
Laborer	\$ 40.60	\$ 60.90	2.0		\$ 81.20	
Laborer	\$ 40.60	\$ 60.90			\$ -	
Laborer	\$ 40.60	\$ 60.90			\$ -	
	\$ -	\$ -			\$ -	
Total Labor with 15% Markup					\$	685.28

Description	Hrly	Hrly Operating	Ownership Hours	Operating Hours	Subtotal Equipment	
	Ownership Cost	Cost				
1/2 Ton Pickup - Gasoline	\$ 3.89	\$ 15.85			\$ -	
3/4 Ton Pickup - Gasoline	\$ 4.60	\$ 23.10			\$ -	
1 Ton Pickup - Diesel	\$ 6.28	\$ 19.80	2.0	2.0	\$ 52.16	
JD 624K Wheel Loader	\$ 31.08	\$ 40.80	1.0	1.0	\$ 71.88	
Komatsu PC 600 Excavator	\$ 131.14	\$ 143.70			\$ -	
CAT 328D Excavator	\$ 59.63	\$ 67.65			\$ -	
Okada Hammer - 5000LB	\$ 23.61	\$ 13.55			\$ -	
CAT D6K2 Track Dozer	\$ 42.70	\$ 44.40			\$ -	
Atlas Copco C165 Air Compressor	\$ 4.20	\$ 15.20			\$ -	
Office Trailer	\$ 1.34				\$ -	
Port-A-Jon	\$ 0.94				\$ -	
Mini-Ex - 1 Week Rental	\$ 1,210.00	\$ 13.00			\$ -	
Skid Steer - 1 Week Rental	\$ 1,150.00	\$ 21.45			\$ -	
Komatsu - D39 Dozer - 1 Day Rental	\$ 616.67	\$ 34.45	1.0	6.0	\$ 723.37	
					\$ -	
					\$ -	
					\$ -	
					\$ -	
Total Equipment with 15% Markup					\$	974.52

Subcontract Description	Quantity	Unit	Rate	Tax	Subtotal	
					Subcontract	
					\$ -	
					\$ -	
					\$ -	
					\$ -	
					\$ -	
					\$ -	
					\$ -	
					\$ -	
Total Subcontracts with 5% Markup					\$	-

Description	Quantity	Unit	Rate	Tax	Subtotal	
					Material	
6-INCH XYPEX RISERS	8.00	EA	\$ 68.67	\$ 24.00	\$ 424.00	
MASTIC	1.00	BOX	\$ 48.00	\$ 2.88	\$ 50.88	
				\$ -	\$ -	
				\$ -	\$ -	
				\$ -	\$ -	
				\$ -	\$ -	
				\$ -	\$ -	
				\$ -	\$ -	
Total Materials with 15% Markup					\$	546.11

**TOTAL** \$ 2,205.90



**Attachment 7  
to Change Order No. 3  
West Hickman Trunk Sewer – A**

**Elimination of Spoil Pile Hauling**



Date: 10/27/2015

Garney Project No. 3207

Description: Haul-off Spills

Craft / Name	Hourly Rate w/FRINGE		HOURS		Subtotal Labor	Totals
	Regular	Overtime	Regular	Overtime		
Gary Goff / Sr Project Mgr	\$ 71.15	\$ 108.73			\$ -	
Zack Bloomfield / Project Mgr	\$ 56.41	\$ 84.62			\$ -	
Rob Grant / Superintendent	\$ 69.41	\$ 104.12	-5.0		\$ (347.06)	
Cole Jordan / Field Engineer	\$ 48.86	\$ 70.29			\$ -	
Operator	\$ 53.69	\$ 80.54	-10.0		\$ (536.94)	
Operator	\$ 53.69	\$ 80.54			\$ -	
Operator	\$ 53.69	\$ 80.54			\$ -	
Pipelayer	\$ 40.93	\$ 61.39			\$ -	
Laborer	\$ 40.60	\$ 60.90			\$ -	
Laborer	\$ 40.60	\$ 60.90			\$ -	
Laborer	\$ 40.60	\$ 60.90			\$ -	
	\$ -	\$ -			\$ -	
Total Labor with 0% Markup					\$	(884.00)

Description	Hrly Ownership Cost	Hrly Operating Cost	Ownership Hours	Operating Hours	Subtotal Equipment	
1/2 Ton Pickup - Gasoline	\$ 3.89	\$ 15.65			\$ -	
3/4 Ton Pickup - Gasoline	\$ 4.60	\$ 23.10			\$ -	
1 Ton Pickup - Diesel	\$ 6.28	\$ 19.80	-5.0	-2.0	\$ (71.00)	
JD 624K Wheel Loader	\$ 31.08	\$ 40.80			\$ -	
Komatsu PC 800 Excavator	\$ 131.14	\$ 143.70			\$ -	
CAT 328D Excavator	\$ 59.83	\$ 67.65	-8.0	-10.0	\$ (1,153.54)	
Okada Hammer - 5000LB	\$ 23.61	\$ 13.55			\$ -	
CAT D6K2 Track Dozer	\$ 42.70	\$ 44.40			\$ -	
Atlas Copco C185 Air Compressor	\$ 4.20	\$ 15.20			\$ -	
Office Trailer	\$ 1.34				\$ -	
Port-A-Jon	\$ 0.94				\$ -	
Mini-Ex - 1 Week Rental	\$ 1,210.00	\$ 13.00			\$ -	
Skid Steer - 1 Week Rental	\$ 1,150.00	\$ 21.45			\$ -	
Komatsu - D39 Dozer - 1 Day Rental	\$ 516.67	\$ 34.45	-1.0	-10.0	\$ (861.17)	
					\$ -	
					\$ -	
					\$ -	
					\$ -	
Total Equipment with 0% Markup					\$	(2,085.71)

Subcontract Description	Quantity	Unit	Rate	Subtotal Subcontract	
Hourly Trucking	-75.00	HR	\$ 65.00	\$ (4,875.00)	
Mobilize Dozer to Dump and Beck	-2.00	EA	\$ 350.00	\$ (700.00)	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
Total Subcontracts with 0% Markup				\$	(5,575.00)

Description	Quantity	Unit	Rate	Tax	Subtotal Material	
				\$ -	\$ -	
				\$ -	\$ -	
				\$ -	\$ -	
				\$ -	\$ -	
				\$ -	\$ -	
				\$ -	\$ -	
				\$ -	\$ -	
				\$ -	\$ -	
				\$ -	\$ -	
Total Materials with 0% Markup					\$	-

**TOTAL \$ (8,544.71)**

**Attachment 8  
to Change Order No. 3  
West Hickman Trunk Sewer – A**

**Fall-Through Protection**

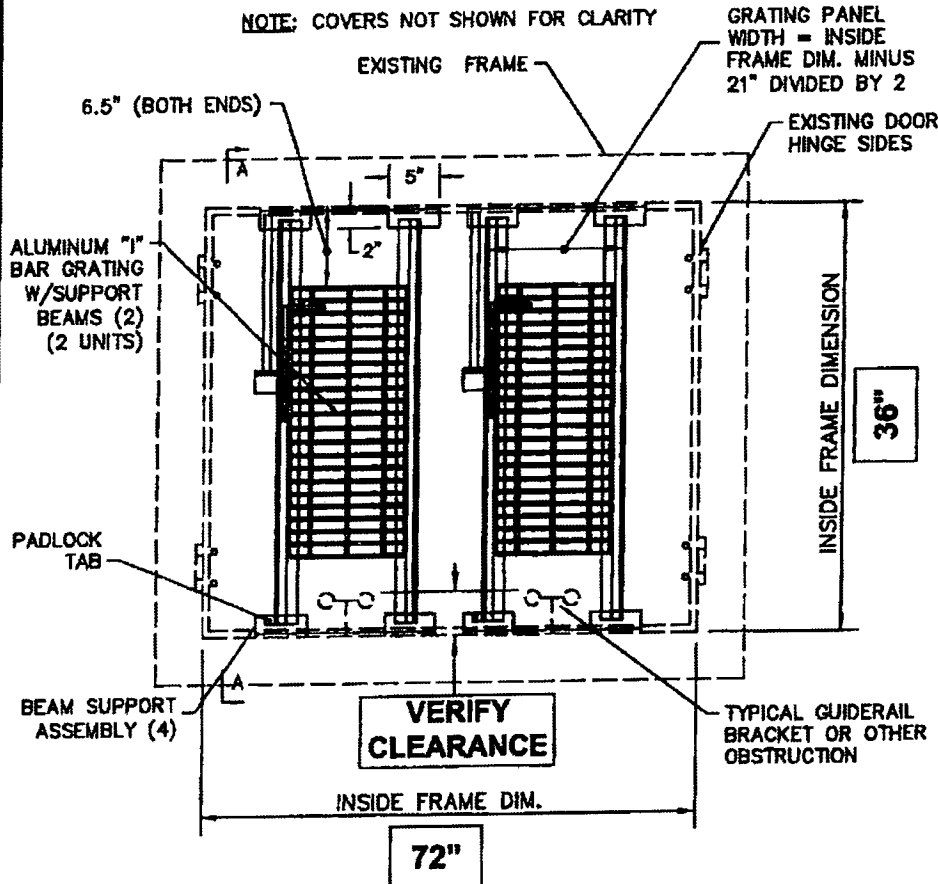


HALLIDAY PRODUCTS, INC.  
 ORLANDO, FL  
<http://www.hallidayproducts.com>



MODEL NO: X2SA72A36ACABA  
 QUANTITY: 3  
 ORDER NO. Q47790  
 DATE: 11/6/15  
 LOCATION/TAG: WEST HICKMAN

NOTE: COVERS NOT SHOWN FOR CLARITY



**STANDARD FEATURES:**

- HINGED ALUMINUM 1" BAR GRATING PANEL
- T-316 STAINLESS STEEL HARDWARE AND HOLD-OPEN ARM
- SPRING LOADED LIFT HANDLE
- 300 LB. PER SQ. FT. LOAD RATING
- 3 YEAR GUARANTEE
- PADLOCK TAB
- GRATING PANEL (POWDER COATED, SAFETY ORANGE COLOR)

**MOUNTING HARDWARE**

- FLAT HEAD P SCREW (3/8"-16 X 1 1/2")
- NUT (3/8"-16)
- LOCK WASHER (3/8")

**X MOUNTING HARDWARE**

- SLEEVE ANCHOR (3/8" X 3" FH-P)

**MOUNTING HARDWARE**

- SLEEVE ANCHOR (3/8" X 4" FH-P)

MISCELLANEOUS  
 (SEE ACCOMPANYING DETAIL DRAWING)

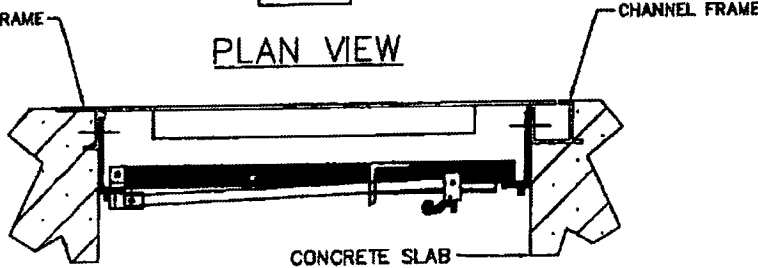
DRAWING IS CORRECT AS SHOWN,  
 PROCEED WITH FABRICATION.

MAKE CORRECTIONS AND RESUBMIT

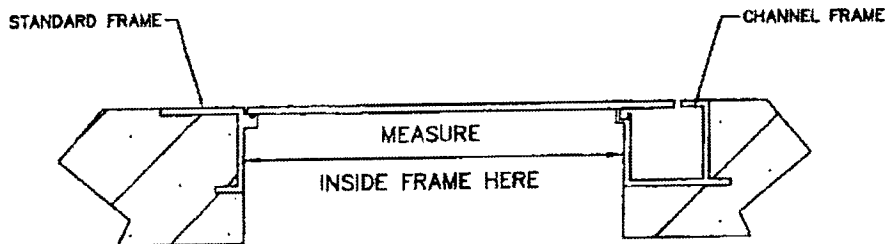
MAKE CORRECTIONS AND PROCEED  
 WITH FABRICATION.

SIGNED:

DATE:



SECTION A-A



**Important:**

With any custom built item, it is imperative accurate information be relayed to the manufacturer. Carefully review the above information to insure there is no miscommunication with regard to the size of the existing opening, depth and condition of the concrete as well as obstructions which could adversely affect the operation of the Retro-Grate. All information including the tag/location must be shown in the above submittal drawing. If all information is correct, sign and date the submittal where shown and email to: [sales@hallidayproducts.com](mailto:sales@hallidayproducts.com) or fax it to us @ 407-298-4534.