ORDINANCE No. 185003

Amend contract with Emery and Sons Construction, Inc. for additional work and compensation for the Foster/Holgate Sewer Replacement Project No. E10014 (Ordinance; amend Contract No. 30001292)

The City of Portland ordains:

Section 1. The Council finds:

- 1. Emery and Sons Construction, Inc., (Emery) was issued a contract to construct the Foster/Holgate Sewer Replacement project under Contract No. 30001292, with a substantial completion date of February 14, 2011, and contract amount of \$427,199.
- 2. Changes were made to the design to accommodate changes in the location of the waterline, sewer, telephone and gas utilities.
- 3. The value of the contract increase represents a settlement obtained with the services of the City Attorney in the amount of \$1,083,825.17. This Amendment authorizes the contract amount to be increased to \$1,083,825.17.
- 4. Funds are available in the Sewer System Operating Fund, FY 11-12 Budget, Bureau of Environmental Services, WBS Element E10014 for the additional contract amount.

NOW, THEREFORE, the council directs:

- a. The Commissioner of Public Affairs is authorized to execute an amendment to Contract No. 30001292 with Emery and Sons Construction, Inc. for the purpose described in Section 1, in the amount of \$656,626.17.
- b. The Mayor and Auditor are hereby authorized to draw and deliver warrants chargeable to the Sewer System Operating Fund Budget when demand is presented and approved by the proper authority.

Passed by the Council, NOV 1 6 2011 Dan Saltzman Commissioner of Public Affairs

Mark Hutshinson 2011-10-10

Cost object - E10014

LaVonne Griffin-Valade

Auditor of the City of Portland

By Juran Varxous

Deputy



Project No. E10014

CERTIFICATE OF COMPLETION

for the construction of Foster & Holgate Sewer R	eplacement
according to the provisions of Bid / Ordinance No.	111566 Contract No. 30001292
Name of Contractor: <u>Emery & Sons Construction</u>	n, Inc.
Contract Signed:April 22, 2010	Contract Expires: January 16, 2011
Contract Completed: February 14, 2011	Delinquent _ 29 - Days

This work was inspected as to quality and quantity of work done in construction and found to have been completed, in compliance with the plans, specifications, and requirements under the above named Ordinance.

Construction Division Manager

Chief Engineer Date

Construction Project Manager

Date

I hereby certify that I have completed my contract work under the above numbered Contract and furnished the materials and performed the work in accordance with the plans and specifications.

residen 12-16-11 Contractor Date Title

1/31/2012	City of Portland - Bu	ayment Summary	Page 1 of 4
8:12 pm	PAYME		Final
	Pay Period:	1/02/2012- 1/02/2012	
Project No:	10014	Vendor No:	120
Contract No:	30001292	Contractor:	EMERY & SONS CONSTRUCTION INC
СМ	Bill Theiss	Project Manager:	Bill Theiss
Project:	Foster & Holgate Sewer Replacer	nent	

Contract Summary:

427,199.00
540,583.96
0.00
967,782.96
126.54%

Payment Summary:

	Total to Date:	Total Previous Payments	Total this Payment
Value of Work Completed:	\$543,241.21	\$543,241.21	\$0.00
Change Order Work Completed:	\$540,583.96	\$540,583.96	\$0.00
Amount Earned:	\$1,083,825.17	\$1,083,825.17	\$0.00
Percentage Retained:	0.00%	0.00%	
Amount (Retained) / Released:	\$0.00	\$(10.00)	\$10.00
Payment Amount	\$1,083,825.17	\$1,083,815.17	\$10.00
Dollar Percent Complete	253.70%		

The amount to be paid on this certificate is **100** per cent of **\$0.00** plus all retainage withheld for the length of the contract amounting to **\$10.00** for a combined total of **\$10.00**.

12 Approved by: Date: Mark W. Hutchinson, PE

All questions concerning this progress payment should be directed to Bill Theiss at (503) 823-7931 or Jason Leman at (503) 823-4991.

Distribution: Accounts Payable, EMERY & SONS CONSTRUCTION INC, Bill Theiss, Gary Hodge, MTL, Project File



Date: 1/31/2012 Time: 8:12 pm

City of Portland - Bureau Of Environmental Services **PROJECT PAY ESTIMATE**

Project: Foster & Holgate Sewer Replacement Vendor: CM Bill Theiss Vendor: Project Number: 10014 Vendor: Contract No: 30001292 Award Date: 4/14/2010 Notice To Proceed: 5/24/2010 Vendor:				120 EMERY & SO PO BOX 398 STAYTON, OF	EMERY & SONS CONSTRUCTION INC PO BOX 398			Estimate No. 15 Final 1/02/2012- 1/02/2012 Vendor Number Total Authorized: \$427,199.00 Revised Total Authorized w/ CO: \$967,782.96 Contract Calendar Days: 120					
Item	Description	UN	<u>, han an a</u>	Co	ntract		Previous	This E	stimate	Total Wor	k Completed	Percent	
No.			Quantity	Adj. Quantity	Unit Price	Total Price	Qty	Qty	Amount	Qty	Amount	Complete	
01	MOBILZATION	LS	1.0000		40,000.0000	40,000.00	1.0000	0.0000	0.00	1.0000	40,000.00	100	
02	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	LS	1.0000		9,500.0000	9,500.00	1.0000	0.0000	0.00	1.0000	9,500.00	100	
03	PORTABLE CHANGEABLE MESSAGE SIGNS	EA	7.0000		2,300.0000	16,100.00	4.0000	0.0000	0.00	4.0000	9,200.00	57	
04	FLAGGERS	HR	600.0000		46.0000	27,600.00	3,374.4935	0.0000	0.00	3,374.4935	155,226.70	562	
05	EROSION CONTROL	LS	1.0000		2,500.0000	2,500.00	1.0000	0.0000	0.00	1.0000	2.500.00	100	
06	INLET PROTECTION	EA	11.0000		115.0000	1,265.00	9.0000	0.0000	0.00	9.0000	1,035.00	82	
07	CONTAMINATED MEDIA DISPOSAL	TN	20.0000		22.0000	440.00	0.0000	0.0000	0.00	0.0000	0.00	0	
08	HASP/CMDP WORK PLANS	LS	1.0000		4,500.0000	4,500.00	1.0000	0.0000	0.00	1.0000	4,500.00	100	
09	REMOVAL OF RAILROAD TRACK AND TIES	FT	325.0000		40.0000	13,000.00	0.0000	0.0000	0.00	0.0000	0.00	0	
10	TRENCH EXCAVATION, COMMON	CY	1,570.0000		41.0000	64,370.00	1,623.5200	0.0000	0.00	1,623.5200	66,564.32	103	
11	TRENCH BACKFILL, CLASS B	CY	1,100.0000		35.0000	38,500.00	1,098.7800	0.0000	0.00	1,098.7800	38,457.30	100	
12	POTHOLE EXCAVATION	EA	7.0000		500.0000	3,500.00	18.0000	0.0000	0.00	18.0000	9,000.00	257	
13	ENGINEERED SHORING	LS	1.0000		3,000.0000 -	3,000.00	1.0000	0.0000	0.00	1.0000	3,000.00	100	
14	6 INCH PIPE, PVC ASTM D3034 SDR 35, BEDDING TYPE: D	FT	75.0000		55.0000	4,125.00	57.5000	0.0000	0.00	57.5000	3,162.50	77	
15	36 INCH PIPE, RCP ASTM C76 CLASS V, BEDDING TYPE: B	FT	346.0000		135.0000	46,710.00	353.0000	0.0000	0.00	353.0000	47,655.00	102	
16	10 INCH PIPE, HDPE ASTM F714 SDR 26, BEDDING TYPE: D	FT	130.0000		55.0000	7,150.00	149.9000	0.0000	0.00	149.9000	8,244.50	115	
17	INSERTA-TEE 6 INCH	EA	3.0000		200.0000	600.00	3.0000	0.0000	0.00	3.0000	600.00	100	
18	INSERTA-TEE 10 INCH	EA	2.0000		390.0000	780.00	2.0000	0.0000	0.00	2.0000	780.00	100	
19	TV PIPE INSPECTION, MAINLINE SEWER	FT	795.0000		2.7000	2,146.50	903.6000	0.0000	0.00	903.6000	2,439.72	114	
20	TV PIPE INSPECTION, SERVICE	FT	75.0000		8.5000	637.50	64.9000	0.0000	0.00	64.9000	551.65	87	



Generated by a SharpeSoft Product

Date: 1/31/2012 Time: 8:12 pm

City of Portland - Bureau Of Environmental Services **PROJECT PAY ESTIMATE**

Project: Foster & Holgate Sewer Replacement CM Bill Theiss

120 Vendor: EMERY & SONS CONSTRUCTION INC

Estimate No. Vendor Number

15 Final 1/02/2012- 1/02/2012

Item	Description	UN	<u>let é la p</u> erso de la f	Cc	ontract		Previous		Previous This Estimate Tota		k Completed	Percent
No.			Quantity	Adj. Quantity	Unit Price	Total Price	Qty	Qty	Amount	Qty	Amount	Complete
	LATERAL								fara da		- Turiouric	Complete
21	CONCRETE MANHOLE, 60 INCH, 0-8 FT DEPTH	EA	1.0000		9,000.0000	9,000.00	3.0000	0.0000	0.00	3.0000	27,000.00	300
22	CONCRETE MANHOLE, 60 INCH, DEEPER THAN 8 FT	FT	9.5000		100.0000	950.00	19.2000	0.0000	0.00	19.2000	1,920.00	202
23	CONCRETE MANHOLE, 72 INCH, 0-8 FT DEPTH	EA	1.0000		10,000.0000	10,000.00	0.0000	0.0000	0.00	. 0.0000	0.00	0
24	CONCRETE MANHOLE, 72 INCH, DEEPER THAN 8 FT	FT	9.0000		240.0000	2,160.00	0.0000	0.0000	0.00	0.0000	0.00	0
25	CONCRETE MANHOLE, 84 INCH, 0-8 FT DEPTH	EA	1.0000		11,000.0000	11,000.00	1.0000	0.0000	0.00	1.0000	11,000.00	[`] 100
26	CONCRETE MANHOLE, 84 INCH DEEPER THAN 8 FT	FT	10.0000		290.0000	2,900.00	9.9000	0.0000	0.00	9.9000	2,871.00	99
27	CONCRETE INLETS, P-200	EA	4.0000		1,400.0000	5,600.00	4.0000	0.0000	0.00	4.0000	5,600.00	100
28	CONNECTION TO EXISTING STRUCTURES	EA	2.0000		7,000.0000	14,000.00	2.0000	0.0000	0.00	2.0000	14,000.00	100
29	EXISTING PIPE CONNECTION TO NEW MANHOLE	EA	1.0000		7,500.0000	7,500.00	1.0000	0.0000	0.00	1.0000	7,500.00	100
30	PERMANENT PLUGS	EA	2.0000		2,800.0000	5,600.00	0.0000	0.0000	0.00	0.0000	0.00	0
31	CLSM FOR ABANDONED STRUCTURES	CY	20.0000		130.0000	2,600.00	6.0000	0.0000	0.00	6.0000	780.00	30
32	DIVERSION OF FLOW	LS	1.0000		17,000.0000	17,000.00	1.0000	0.0000	0.00	1.0000	17,000.00	100
33	TEMPORARY TRENCH RESURFACING	SY	550.0000		18.0000	9,900.00	327.7100	0.0000	0.00	327.7100	5,898.78	60
34	TRENCH RESURFACING W/O BASE, MHMAC, 9 INCH	SY	615.0000		55.0000	33,825.00	527.8600	0.0000	0.00	527.8600	29,032.30	86
35	AGGREGATE BASE	CY	190.0000		46.0000	8,740.00	396.1400	0.0000	0.00	396.1400	18,222.44	208
Chang	e Orders	a di dad	an di kata na sheka	eeleet Maesalik	Gudenderen.	in de Korender	9.6860 PC168			Sitter Right	a de la desta de la desta La desta de la d	lage for an and
Cha	ange Order: 1 GROUT BENE	ATH 6	" WATER MAIN	N / Difference (* 1946)				unis de	lander (d.		9264 (9729) A.	a an
1	GROUT BENEATH 60" WATER MAIN	LS	1.0000	ĺ	14,010.7900	14,010.79	1.0000	0.0000	0.00	1.0000	14,010.79	100



Date: 1/31/2012 Time: 8:12 pm

City of Portland - Bureau Of Environmental Services **PROJECT PAY ESTIMATE** 120

Page 4 of 4

Project: Foster & Holgate Sewer Replacement CM Bill Theiss

Vendor: EMERY & SONS CONSTRUCTION INC

Estimate No. 15 Final 1/02/2012-1/02/2012

		1				<u>/endor Numbe</u>	ייב				
Item	Description	UN	<u> 2006 de la comé</u>	Contract	<u> Marine an</u>	Previous	This E	stimate	Total Wor	k Completed	Percent
No.			Quantity	Adj. Quantity Unit Price	Total Price	Qty	Qty	Amount	Qty	Amount	Complete
2	NEW MANHOLE TO REPLACE MH-ACJ540	LS	1.0000	56,406.6000	56,406.60	1.0000	0.0000	0.00	1.0000	56,406.60	100
Ch	ange Order: 3 FINISH GROU	JTING	AND INSTALLIN	IG NEW 60" MANHOLE			1. 1	an a	aparten Gerge	lander for de la	e a cast
3	FINISH GROUTING AND INSTALLING 60" MANHOLE	LS	1.0000	479.4000	479.40	1.0000	0.0000	0.00	1.0000	479.40	100
Ch	ange Order: 4 MH3 CONNEC	CTION	& POUR SLAB	OVER 60" WATER MAIN	alahan jukatika	ana ta ta ta ta ta	li de la come	and and an and a stand of the sta Stand of the stand of	a kana da secondo	la de la construcción de la constru Construcción de la construcción de l	
4	MH3 Connection & Pouring Concrete Slab Over Water Main	LS	1.0000	58,902.1700	58,902.17	1.0000	0.0000	0.00	1.0000	58,902.17	100
Ch	ange Order: 5 Deduction Of L	iquida	ited Damages Fo	or 135 Days				en e	unter antaria.	na an an Artenin an Artenina. Na hArtenia an Artenia a	an luitea
5	Deduction Of Liquidated Damages For 135 Days	LS	1.0000	-148,500.0000	-148,500.00	1.0000	0.0000	0.00	1.0000	-148,500.00	100
Ch	ange Order: 6 FINAL CHANG	E OR	DER RESOLUTI	ON PER ORDINANCE 185003		7868897288			novector Alter	1999년(1999년) 1993년(1997년) - 1997년)	lag lag s
6A	BORE & JACK WORK	LS	1.0000	442,685.0000	442,685.00	1.0000	0.0000	0.00	1.0000	442,685.00	100
6B	REIMBURSE LIQUIDATED DAMAGES	EA	106.0000	1,100.0000	116,600.00	106.0000	0.0000	0.00	106.0000	116,600.00	100

Dollar Percent Complete	253.70%	Amount This Estimate w/CO:	\$0.00
Days Percent Complete	104.31%	Total Work Completed to Date:	\$543,241.21
Contractor Started:	5/25/2010	CO Amount This Estimate:	\$0.00
Working Days Started:	5/25/2010	CO Total To Date	\$540,583.96
Original Completion:	9/21/2010	Materials On Hand: Materials On Hand Deduction:	\$0.00
Non-Working Days:	0	Total Certificate Amount	\$0.00 \$1,083,825.17
Time Extension Days:	135		\$0.00
Revised Contract Completion	2/03/2011	Retention Released this Estimate	\$10.00
Actual Completion:	2/15/2011	Retention Withheld to Date:	\$(26,227.01)
•		Retention Released to Date:	\$26,227.01
		Other Adjustments	\$0.00
		Retainage +/- Adjustments	\$0.00
		Total Due to Date:	\$1,083,825.17
		Deduct Previous Payments:	\$(1,083,815.17)
		Balance Due This Estimate:	\$10.00

MAINTENANCE/WARRANTY BOND

KNOW ALL MEN BY THESE PRESENTS that we, <u>EMERY & SONS CONSTRUCTION, INC.</u>, as Principal, and <u>COMPANY OF AMERICA</u>, a corporation organized and existing under the laws of the State of <u>CONNECTICUT</u>, and duly authorized to transact a surety business in the State of Oregon, as surety, are held and firmly bound unto the CITY OF PORTLAND, a municipal corporation of the State of Oregon, in the penal sum of \$-TWO HUNDRED SEXTED THOUSAND SEXTED HUNDRED SEXTY FIVE AND 03/100- Dollars (\$216,765.03), lawful money of the United States of America, for the payment whereof well and truly to be made, we and each of us, jointly and severally, bind ourselves, our and each of our heirs, executors, administrators successors and assign, firmly by these presents.

THE CONDITION OF THIS BOND IS SUCH:

THAT WHEREAS the Principal did on the (APRIL 22ND, 2010), enter into Contract with the City of Portland for FOSTER & HOLGATE SEWER REPLACEMENT, PROJECT NO. E10014, that was completed on (DECEMBER 16TH, 2011), which requires a two-year Maintenance and Warranty as described in Section 107.14 of the City of Portland Standard Construction Specifications, and which Contract hereby is made a part hereof as if fully copies herein;

NOW THEREFORE, if the Principal herein shall faithfully and truly observe the terms, provisions, conditions, stipulations, directions, and requirements of said contract and shall in all respects, whether the same be enumerated herein or not, faithfully comply with the same and shall assume the defense of indemnify and save harmless the City of Portland, its officers, agents, and employees from all claims, liabilities, loss, damage or injury which may have been suffered or claimed to have been suffered to persons or property directly or indirectly resulting from or arising out of the operations or conduct of said Principal or any subcontractor in the performance of the work under said contract and shall indemnify and make whole the City for any injury or damage to any street, highway, avenue, or road or any part thereof, resulting from the operations or conduct of said Principal or any subcontractor in connection with performance or conduct of the work under said contract, and shall in all respects faithfully keep and observe all of said terms, provision, conditions, stipulations, directions, and requirements, then this obligation is void, otherwise, it shall remain in full force and effect.

· · · · 1 (77) 1

WITNESS our hand and seals this $\frac{101H}{101H}$	day of <u>DECEMBER</u>	, 20 <u>11</u>
	EMERY & SONS CONSTRUCTION, INC. Contractor BY: BY: TITLE: <u>President</u>	
APPROVED AS TO FORM APPROVED Mada Recent	Surety TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA By: Attorney-In-Fact TY MOFFETT	••••

City Attorney CITY ATTORNEY

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Maintenance Warranty Bond.doc Revised October 6, 2003



POWER OF ATTORNEY

Farmington Casualty Company Fidelity and Guaranty Insurance Company Fidelity and Guaranty Insurance Underwriters, Inc. St. Paul Fire and Marine Insurance Company St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company **Travelers Casualty and Surety Company** Travelers Casualty and Surety Company of America United States Fidelity and Guaranty Company

Attorney-In Fact No. 218303

TRAVELERŜ



KNOW ALL MEN BY THESE PRESENTS: That St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company and St. Paul Mercury Insurance Company are corporations duly organized under the laws of the State of Minnesota, that Farmington Casualty Company, Travelers Casualty and Surety Company, and Travelers Casualty and Surety Company of America are corporations duly organized under the laws of the State of Connecticut, that United States Fidelity and Guaranty Company is a corporation duly organized under the laws of the State of Maryland, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

A.G. Sadowski, Derek A. Sadowski, Kathleen M. Sadowski, and Ty Moffett

Salem of the City of _____ Oregon ___, State of__ , their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this _______ April 2011 day of

15th

Farmington Casualty Company Fidelity and Guaranty Insurance Company Fidelity and Guaranty Insurance Underwriters, Inc. St. Paul Fire and Marine Insurance Company St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company **Travelers Casualty and Surety Company** Travelers Casualty and Surety Company of America United States Fidelity and Guaranty Company

1982 	1977	WCORPORATED E	SEAL S	UNU INSTATE	AND	THURTTORD	HELTY MISCHART
State of Connecti City of Hartford s				By:	George W Thomp	Son, Senior Vice Pres	ident
On this the1	5th	day ofApril	 _ , , 1	pefore me persona	ally appeared Geo	rge W. Thompson	, who acknowledged

himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal. My Commission expires the 30th day of June, 2011.



aric C. Tetreau rie C. Tetreault, Notary Public

58440-4-09 Printed in U.S.A.

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kori M. Johanson, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

December IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this ______16th_____ day of ______ $_{20}$ 11

Kori M. Johanson Assistant Secretary













To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

ACKNOWLEDGEMENT, RELEASE AND CERTIFICATION

1. Acknowledgement

Contractor acknowledges that amount earned is \$1,083,825.17 on Contract No. 30001292. Final payment of \$1,000 Remains to be made by the City of Portland.

2. Release:

Except for the amount of the final payment that remains to be paid, Contractor releases the City of Portland, its officers, agents and employees from any and all other claims for additional compensation that it does or might have as a result of its performance of work on this contract

3. Certification

Contractor certifies that:

- All work required by this Contract is complete;
- b) All amounts due for labor, materials and all other obligations under this Contract were paid by the Contractor except for any payments due after Final Payment by Owner is paid;
- c) All actions for injuries or damages arising out of its operations and work were fully and finally settled, or are fully covered by insurance protecting the Contractor, the City of Portland, its officers, agents and employees, and any additional insurance required by the contract; and
- d) Any claim brought against the Contractor by an employee, subcontractor, or supplier has been fully and finally settled, or if not resolved, is fully covered and payable by the Contractor's performance and payment bond, or, if no bond was required, by the Contractor itself, in the event that such claim is correct.

Signature

Emery & Sons Construction, Inc. 3831 Fairview Dr. SE PO Box 4109 Salem, OR 97302

State of) ss: County of This instrument was acknowledged before me on (date), by (name) as (title) In (company). TN NOTARY PUBLIC FOR (State) My Commission Expires: OFFICIAL SEAL MELISSA M PATTERSON NOTARY PUBLIC - OREGON ED AS TO FC COMMISSION NO. 457171 COMMISSION EXPIRES APRIL 24, 2015

CITY ATTORNEY

CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES

CONSTRUCTION ENGINEERING DIVISION

1120 SW FIFTH AVE, ROOM 1000, PORTLAND, OR 97204 (503) 823-7740, FAX: (503)-823-7110

FINAL QUANTITY AGREEMENT

Project:	Foster & Holgate Sewer Re	placement	Project No.:	E10015	
Contract:	30001292		Date:	12/16/11	
Contractor:	Emery & Sons Construction	Inc.			
	Original Contract Amount:	\$427,199			
	Authorized Change Orders:	\$540,583.96			
	Quantity Increases:	\$116,042.21		- 33	
	Final Amount Earned	\$1,083,825.17			
	Amount Earned in PP 012:	\$1,083,825.17			
Amour	nt to be Paid in PP 013 Final:	\$1,000	an de angele de la constant de la co		

Mull By:

Construction Manager

Contractor's Representative

cc: Contractor, CM, Senior Inspector, Designer , Const. Eng., TRIM

By:

a

Date

Sent via e-mail to Contractor on: 12/16/11

RECEIVED

DEC 27 2011

BUREAU OF ENVIRONMENTAL SERVICES



CITY OF PORTLAND, OREGON BUREAU OF ENVIRONMENTAL SERVICES CONSTRUCTION SERVICES DIVISION

CONTRACT #	30001292 UNILATERAL CHANGE O	RDER # 1	
Project Name:	Foster & Holgate Sewer Replacement		
Company:	Emery & Sons Construction Inc.	Project Number:	10014
Address:	P.O. Box 4109, 3831 Fairview Industrial Dr SE	Bid Number:	111566
	Salem, OR, 97302		

Inject Grout beneath the 60" Water Main in the Foster & Holgate intersection to help stabilize the soil prior to the Jack & Tunnel operation. See Change Directive for grouting locations and depths.

The cost was calculated per Force Accounts for the Labor, Equipment, Materials, and Subcontractor needed to perform the grout work. See attached Force Account Sheets and Calculations.

This unilateral Change Order provides all compensation by the City of Portland to the Contractor for all things done or furnished in connection with the work done under this Change Order.

The above-ordered change order will increase the contract amount by \$14,010.79

The above-ordered change order will increase the contract time by 2 days.

Bureau of Environmental Services Construction Division Manager

Inspector II

CC: BES Accounting (106/1000)

Contractor (original)

Construction Manager 57

Auditor's Office (131/401)

E10014 Foster & Holgate Force Account Sheets

11-03-2010 to 11-04-2010, Grout for Ground Stabilization

11-03-2010 Total: 11-04-2010 Total: \$6,457.95 \$7,552.84

Total Cost for Grout Work:

\$14,010.79

*See attached Force Account Sheets

E10014 FORCE ACCOUNT, 11-03-2010, Ground Stability Grout

LABOR	•		,	.	
NAME	CLASS.	TOTAL HRS.	RATE	TOTAL	11/3/2010
Jeff Levin	Superintendent	8.00	\$107.86	\$862.88	8.00
Jeff Levin OT	Superintendent	0.50	\$157.20	\$78.60	0.50
Larry Robinson	Operator	8.00	\$61.63	\$493.04	8.00
Larry Robinson	Operator	0.50	\$87.09	\$43.55	0.50
Connor Tony	Laborer	8.00	\$48.85	\$390.80	8.00
Connor Tony	Laborer	0.50	\$68.28	\$34.14	0.50
Haven Gallagher	Laborer	8.00	\$48.85	\$390.80	8.00
Haven Gallagher	Laborer	0.50	\$68.28	\$34.14	0.50
Tim Fowler	Foreman/Operator	8.00	\$107.86	\$862.88	8.00
Tim Fowler	Foreman/Operator	0.50	\$157.20	\$78.60	0.50
	TOTAL LABOR COST			\$3,269.43	
	LABOR ALLOWANCE @	20.00%		\$653.89	
	TOTAL LABOR PRICE			<u>\$3,923.31</u>	

CONTRACTOR'S EQUIPMENT

DESCRIPTION	MODEL	TOTAL HRS.	RATE	TOTAL	11/3/2010
Water Truck	3600 Gallon	7.00	\$46.70	\$326.90	7.00
Vac Trailer	V-T 1500 D	6.00	\$52.00	\$312.00	6.00
Back Hoe	Case 580	. 5.00	\$28.44	\$142.20	5.00
Loader	JD 644	2.00	\$65.50	\$131.00	2.00
Crew Truck	Ford F450	7.00	\$22.64	\$158.48	7.00
Pickup Truck	Ford F-350	7.00	\$14.07	\$98.49	7.00
Lights	Ben x 8 hrs	24.00	\$9.73	\$233.52	24.00
Roller	DynaPac CC122	0.50	\$59.45	\$29.73	0.50
	TAL EQUIPMENT COST			\$1,432.32	
CONTRACTOR	'S EQUIPMENT ALLOWANCE	0.00%			
TO	TAL EQUIPMENT PRICE			<u>\$1,432.32</u>	

CONTRACTOR'S EQUIPMENT ON STANDBY

DESCRIPTION	MODEL	TOTAL HRS.	RATE	TOTAL	11/3/2010
Vac Trailer	V-T 1500 D	1.00	\$52.00	\$20.80	1.00
Back Hoe	Case 580	2.00	\$28.44	\$22.75	2.00
Loader	JD 644	5.00	\$65.50	\$131.00	5.00
TOTAI CONTRACTOR'S EC TOTAL		<u></u>	\$174.55 \$174.55	****** ******************************	

MATERIALS AND SUPPLIES

DESCRIPTION	SUPPLIER	UNITS	RATE	TOTAL	11/03/10
6" PVC Pipe		13.00	\$2.97	\$38.61	13 LF
2" Galvanized Pipe		120.00	\$4.39	\$526.80	120 LF
6" Cast Valve Box		3.00	\$69.45	\$208.35	3 EA
Traffic Control Signs		12.00	\$2.75	\$33.00	12 EA
1	TOTAL MATERIALS COST		······································	\$806.76	· · · · · · · · · · · · · · · · · · ·
	MATERIAL ALLOWANCE @	15.00%		\$121.01	

TOTAL MATERIALS PRICE

\$927.77

FORCE ACCOUNT GRAND TOTAL: \$6,457.95

E10014 FORCE ACCOUNT, 11-04-2010, Ground Stability Grout

NAME	CLASS.	TOTAL HRS.	RATE	TOTAL	11/4/2010
Bill Martinak	Laborer	6.00	\$107.86	\$647.16	6.00
Bill Martinak	Laborer	0.00	\$157.20	\$0.00	0.00
Ryan Ward	Laborer	6.00	\$63.65	\$381.90	6.00
Ryan Ward	Laborer ·	0.00	\$0.00	\$0.00	0.00
	TOTAL LABOR COST	1		\$1,029.06	
L	ABOR ALLOWANCE @	20.00%		\$205.81	
	TOTAL LABOR PRICE			<u>\$1,234.87</u>	
CONTRACTOR'S EQUIPMEN	T				
DESCRIPTION	MODEL	TOTAL HRS.	RATE	TOTAL	11/4/2010
Pickup Truck	Ford F-350	6.00	\$14.07	\$84.42	6.00
Back Hoe	Case 580	5.00	\$28.44	\$142.20	5.00
Lights	Ben x 8 hrs	21.00	\$9.73	\$204.33	21.00
Roller	DynaPac CC122	0.50	\$59.45	\$29.73	0.50
TOTAL	EQUIPMENT COST			\$460.68	
CONTRACTOR'S EQU	IIPMENT ALLOWANCE	0.00%			
TOTAL E	QUIPMENT PRICE			<u>\$460.68</u>	
CONTRACTOR'S EQUIPMEN	T ON STANDBY				
DESCRIPTION	MODEL	TOTAL HRS.	RATE	TOTAL	11/4/2010
Water Truck	3600 Gallon	5.00	\$46.70	\$93.40	5.00
TOTAL	EQUIPMENT COST			\$93.40	
CONTRACTOR'S EQU	IPMENT ALLOWANCE	0.00%			
TOTAL E	QUIPMENT PRICE			<u>\$93.40</u>	
SUBCONTRACTOR LABOR					
DESCRIPTION	SUPPLIER	UNITS	RATE	TOTAL	11/04/10
Labor		5.00	\$375.00	\$1,875.00	5.00
Mobilization		1.00	\$2,200.00	\$2,200.00	1.00
Chemical Grout		10.00	\$125.00	\$1,250.00	10.00
TOTAL SUBCONTRAC				\$5,325.00	
TOTAL SUBCONTRAC	IED LABOR CUST			⊅ 5,3∠5.00	

TOTAL SUBCONTRACTED LABOR COST		\$5,325.00
SUBCONTRACTOR LABOR ALLOWANCE @	5.00%	\$266.25

TOTAL MATERIALS PRICE

<u>\$5,591.25</u>

MATERIALS AND SUPPLIES

DESCRIPTION	SUPPLIER	UNITS	RATE	TOTAL	11/04/10
1/2" Grout Pipe, 10 1/2" Couplers		96.00	\$1.22	\$117.12	96 LF
Traffic Control Signs		12.00	\$2.75	\$33.00	12 EA
	IATERIALS COST ALLOWANCE @	15.00%		\$150.12 \$22.52	
TOTAL MATERIALS PRICE		•		<u>\$172.64</u>	

FORCE ACCOUNT GRAND TOTAL: \$7,552.84

CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES

CONSTRUCTION ENGINEERING DIVISION

1120 SW FIFTH AVE, ROOM 1000, PORTLAND, OR 97204 (503) 823-7740, FAX: (503)-823-7110

CONSTRUCTION CHANGE DIRECTIVE

Project:	Foster & Holgate Sewer Replacement	Proj. #:	E10014
Subject:	Grout for Ground Stabilization under the 60" Main	CCD #:	03
From:	Bill Theiss	Date:	10/29/10
То:	Emery & Sons Construction Inc.	Attn:	Ryan Ward

You are hereby directed to proceed with the following changes to the Work:

In order to stabilize the ground conditions beneath the 60" Water Main, Emery & Sons shall use the approved grout and grouting method in several locations around the Water Main and 36" Existing Sewer.

See attached Approved Submittal.

a. Incorporate these changes into the Record Documents.

- b. Except for the changes described herein, all work under this CCD shall be in conformance with the Contract Documents.
- c. Continue promptly with the Work, including these changes so that the Project is not delayed.
- d. Perform these changes on Force Account and report to the Inspector, on a daily basis, all materials, equipment, labor, and special services used, and any apparent impacts to the Construction Schedule.

Attach documents related to this C	CD: RFI#	NOC#	DC#	FO#
Other: _Approved Submittal #18	3.10	·		
Owner's Representative:	Bill the	– Da	te: 10/2	9/10

cc:

Colleen Harold, Ayda Forouzan, Bill Theiss, Gary Hodge, Bert Crosier, Joe Maze, BES Const. Eng.



1120 SW Fifth Avenue, Room 1000, Portland, Oregon 97204 • Dan Saltzman, Commissioner • Dean Marriott, Director

10/29/2010

Emery & Sons Construction Inc. P.O. Box 4109, 3831 Fairview Industrial Drive Salem , OR 97302

Project: 10014.0, Foster & Holgate Sewer Replacement

Submittal: 18.100, Grouting Locations for Ground Stabilization

MAKE CORRECTIONS NOTED

Comments:

1. The noted Grout Hole Locations are not exact locations and may be moved pending field conditions and owners approval 2. Grout pressures may vary due to field conditions – however, movement of the 60" water line will not be tolerated.

The review by the Engineer of any shop drawings, product data, samples, construction methods and equipment, or other submittals is only for conformance with the general concept of the project and does not extend to consideration of structural integrity, safety, detailed compliance with Contract Requirements, or any other obligation of the Contractor. Action shown is subject to the requirements of the plans and specifications. The Contractor is responsible for confirming and correlating all dimensions and fabrications and construction techniques; coordinating his work with that of all other trades; and the satisfactory performance of his entire work in strict accordance with the Contract Documents. The review does not relieve the Contractor from his obligation to fully perform all Contract Requirements, nor does such review give rise to any right of action or suit in favor of the Contractor or third persons against the Engineer or Owner.

Please contact this office with any questions you may have. Sincerely,

Bill Theiss Project Manager

cc: Main File Bert Crosier Gary Hodge Ayda Forouzan Joe Maze Neil Bruesch Tom Pfeiffer

James Wood



October 28, 2010

City of Portland Attn: Bill Theiss 1120 SW Fifth Avenue, Room 1000 Portland, Oregon 97204-1912

RE: Project #E10014 Foster and Holgate Sewer Replacement Utility Protection During Jacking and Tunneling

Mr. Bill Theiss,

Before Jacking and Tunneling underneath the 60" water main, we are going to inject a chemical grout in four locations (See attached plan). The locations shown on the plan are approximate and depend on whether the CDF we placed around the main is in the way.

Michels Corporation will be completing the grout installation. They will be using Strata-Tech hand pumps and pressurize the grout to 50-75 psi. Once the grout reaches the correct pressure the pipe will be raised 2.5'-3' and pressurized again, spreading the grout and solidifying the earth below the water main. We will pump grout from approximately 18' deep to the surface.

If the grout doesn't hold the earth as expected, and we still experience raveling into the casing, we will need to revert back to the original utility protection plan for the 60" water main. We will have all the correct sheets, straps, beams, chains and binders on site to install the original system.

If there are any questions regarding this plan please contact myself at 503.588.7576, or Jeff Levin, the onsite Superintendent at 503.931.7475.

Thank you,

KM W

Ryan Ward Project Manager

3831 Fairview Industrial Dr SE + P.O. Box 4109 + Salem, OR 97302 + Bus. (503) 588-7576 + Fax (503) 371-6637 + CCB # 312



1120 SW Fifth Avenue, Room 1000, Portland, Oregon 97204 . Dan Saltzman, Commissioner . Dean Marriott, Director

Grouting Submittal Supplemental

October 29, 2010

(These notes are in addition to Submittal #18.10 Grouting Locations for Ground Stabilization.)

NOTES

- Michels Corporation will be installing the Grout in several locations around the 60" Water Main and the Existing 36" Sewer. Four (4) Holes will be drilled to a depth of 18 feet (to the invert elevation of the Existing Sewer Pipe). Two (2) more holes will be drilled to the Top of the Existing Sewer on either side of the 60" Water Main. See attached drawing for Grout Hole Locations. Between the depths of 12' and 18', the grout will be pressurized to 50-75 psi. All grouting above 12' shall be pressurized at 30 psi maximum.
- The top of the 60" Water Main shall be exposed in order for Survey to monitor 3 points of reference throughout the Jacking & Tunneling operation.

Signed,

Bill Theiss Construction Manager BES





TECHNICAL INFORMATION URETHANES

PRODUCT NAME HYDRO ACTIVE[®] Multigel NF Hydrophilic Polyurethane Gel

MANUFACTURER

De Neef Construction Chemicals, Inc. 5610 Brystone Drive Houston, TX 77041 1(800) 732-0166

PRODUCT DESCRIPTION

HYDRO ACTIVE[®] Multigel NF is a hydrophilic polyurethane designed to react with water and form a water impermeable gel mass. HYDRO ACTIVE[®] Multigel NF is a pale yellow, nonflammable liquid. When it comes into contact with water, the grout begins to foam or gel, and depending on the temperature and amount of water present, quickly cures to a flexible, impermeable foam or gel mass unaffected by mildly corrosive environments. Cure times can be modified using accelerator (Flexgel Cat W) and gel strength can be increased using reinforcing agent.

APPROPRIATE APPLICATIONS

- Stopping infiltration into manholes (brick or concrete).
- Sealing of pipe joints using commercial packer equipment.
- Stabilization of soil
- Potable water tanks and storage
- Curtain wall grouting below grade structures

ADVANTAGES

- Non-flammable
- Contains no volatile solvents
- NSF 61 Potable water approved
- High penetration rate through soils
- Can be injected through remote internal pipe packer equipment
- Grouted soils can be excavated
- Multigel NF can be pumped at various grout to water ratios
- Adjustable set times

TYPICAL PROPERTIES

Solids	olids 78%		ASTM D 2369 B	
Viscosity at 77°F	200-	300 cps	ASTM D 2196 A	
Color	Yello	w		
Flashpoint	225°	F	ASTM D 93	
Cured		and the second		
Tensile Strength 10% Reinf. Ager (Mixed 6:1 w/wa	nt	22-34 psi	ASTM D 1564	
Tensile Strength Wet 20% Reinf. Agent (Mixed 6:1 w/water)		28-49 psi	ASTM D 1564	
Gel time		50 seconds at 70° F		
Shrinkage		No shrinkage was observed after one week at 70°F and relative humidity of 100%.		
Influence of pH		Gel time increases with decreasing pH values.		
Compressive Strength in Soil Mixed 1:1w/water		375 psi		
Compressive Strength in Soil Mixed 6:1 w/ water		202 psi		
Cured materials Resistant against normal sewer effluents.				

Water Side Additives

Flexgel Cat Water Side					
Appearance	Pale white				
Viscosity	5 -15 cps at 70°F	ASTM D 2196 A			
Flashpoint	350°F	ASTM D 93			
Reinforcing A	Reinforcing Agent				
Appearance	Milky white (latex based)				
Viscosity	20-50 cps at 70°F	ASTM D 2196 A			
Flashpoint	>212°F	ASTM D 93			

Caution: Add Reinforcing Agent at waterside!

5610 Brystone Dr. Houston, TX 77041•Tel: 713-896-0123•Fax: 713-849-3340•www.deneef.com

PACKAGING

HYDRO ACTIVE® Multigel NF:

- 55 gallon metal drums sealed under dry nitrogen
- 5 gallon metal pails sealed under dry nitrogen.
- 10.5 oz cartridges

Flexgel Cat W: 64 oz. Bottle.

Reinforcing Agent: 1 gal bottle or 5 gal pail

LIMITATIONS

Low temperatures will significantly increase viscosity. If site temperatures are extremely low, heat bands or warm water baths can be used before and during installation to maintain the products temperature. Allow no water into open containers, as the material is water activated. Avoid exceeding 90°F when warming.

CAUTION – pH NOTICE. Water used to activate HYDRO ACTIVE Grouts must be in a range of pH 3 –10 for optimum grout quality.

SURFACE PREPARATION

Refer to DeNeef Surface Preparation Guidelines for more details.

INSTALLATION PROCEDURES

HYDRO ACTIVE® Multigel NF should be pumped with a *plural component pump*. Prior to installation the material should be agitated by vigorously shaking or using a jiffy mixer or bung mixer. HYDRO ACTIVE® Multigel NF is cured by reaction with water. The properties of the cured product are determined by the mix ratio. Combining HYDRO ACTIVE® Multigel NF and water at 1:1 volume ratio yields a very flexible foam with good tear resistance. In the range of 2:1 to 8:1, a strong gel is obtained. Adding Reinforcing Agent up to 50% on the waterside to HYDRO ACTIVE® Multigel NF will increase grout strength and reduce shrinkage if ground water levels vary. The addition of Reinforcing Agent will also accelerate the setting time of HYDRO ACTIVE[®] Multigel NF. Acceleration can also be achieved by adding Flexgel Cat W to the waterside up to 64 ounces per 5 gallons of HYDRO ACTIVE[®] Multigel NF.

Mix Ratio

Foam	Strong Gel	Flaccid Gel
1:1	2:1 4:1 6:1 8:1	10:1 12:1

STORAGE & HANDLING

Store in a dry area using original resealable containers.

Warning! If HYDRO ACTIVE[®] Flexgel Cat W or Reinforcing Agent are allowed to <u>freeze</u> it will lower performance and possibly render material ineffective.

PRECAUTIONS

Always use protective clothing, gloves and goggles consistent with OSHA regulations. Avoid eye and skin contact. Do not ingest. Refer to Material Safety Data Sheet for detailed safety precautions.

SAFETY INFORMATION

In the event of an EMERGENCY call: CHEM-TREC 800-424-9300.

WARRANTY INFORMATION

De Neef Construction Chemicals, Inc. products are warranted under the policy set forth under the WARRANTY section of the De Neef Construction Chemicals Inc., product catalog. Warranty information can also be obtained via the De Neef Construction Chemicals Inc. website at www.deneef.com, or by calling 713-896-0123 or toll free at 1-800-732-0166.

Rev. 07/2006

DRINKING WATER SYSTEM COMPNENTS ANSI/NSF 61 3N76

"HYDRO ACTIVE[®] MULTIGEL NF" MAXIMUM SURFACE AREA TO VOLUME RATIO 5.4CM²/L AT 23°C



5610 Brystone Dr. Houston, TX 77041•Tel: 713-896-0123•Fax: 713-849-3340•www.deneef.com



	FORCE ACCOUNT WO	Rh 18
	Date Worked: ///4/10 Contractor/Sub: <u>Emby +Sows</u> .	Job #: <u>F2/6014</u> Job Name: <u>SEFosin/ Holyn</u> r
Bureau of Environmental Services Construction Engineering Division	Description of Work: Growting/ Soil Simbilization 66" 40	Force Account #: Page: _l of _l

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	LABOR (* star the foreman)	19:30-01	30			n
	Name of Employee	Trade / Type of Work Performed	Class #	Standard Hours	Overtime Hours	
chub?	STEVE JALOBSON	Super/Forman		5		2 19:30-
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SHAWN Sparks	Ln'su-		5		5 00:30
r1 {	BILL MARTINAL	Super		<u> </u>		
	RYAN Whad	P.M.		<u> </u>		
						· .
			<u> </u>	<u> </u>	I	1

EQUIPMENT (attach rental equipment invoices)

Туре	Make	Model / Size / PUC #	Hours	Standby
Pickup	PORD	E-150	5	-
TRL. Eaup		16FT	5	<u> </u>
Growt Pump		MADUNL	5	ļ
WEEK TEL	FURA	1F-350	4	<u> </u>
Backton	CASE	580	5	
Light Phrist		31A. X7 =	317	
Rollin	DYNAME	(1)->	.5	
WITH HEL	[ · · · · · · · · · · · · · · · ·	3600 Gn L-		5

MATERIALS / SERVICE (attach invoices)

Type	Supplier	Units	Quantity
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Grout Mix		GAL.	10
traffic with Signs		En	12
Therefore and states			

Award 60" WATER Phoend Arout + 30gri writer **REMARKS**: Poid Pu bid TIEM Flagg 1. ju

2010 Date Sup Inspecte Contractor's Representative Data A

Payment for Force Accounts will be in accordance with the City of Portand Standard Specifications 109.04 sub 3: Force Account Work. Invoices for materials and subcontracted work must be submitted before payment will be made. (3/96)

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	FORCE ACCOUNT WORK $\#77$					
	Date W	orked:	11/3/2010		20/00/4	
City of Portland	Contra	ctor/Sul	: Emay & Sows			in / Hulyon
Bureau of Environmental Services			Work: INSTALL 60" HAD		ccount #:	1
Construction Engineering Division	MONITO,	ing Poli	NIL GROUT TUBES .	Page:	<u></u>	-
LABOR (* star the for	reman)		79 20	130 .00h/s	TO 041	in
Name of Employe		Trade	/ Type of Work Performed	Class #		Overtime Hours
Jell Levin		2	24Ars		B	05
LARDY Robinson	)		- JENNIG		B	*5
CONNOT TUNY			Labur		ß	20
Haven			Labor		8	26
Tim Foulin.			Formond up.		- 3	.5
		l	•		<u> </u>	
EQUIPMENT (attach rental equipment invoices)						
Туре	Mal	ce	Model / Size / PUC	; #	Hours	Standby
WATH TOK			3600 SAL		7	
VAC TERNÍA			V-T/SOOD		6	

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Rollen	DYNNPAC	<u>CC132</u>	65	
MATERIALS	/ SERVICE (attach invo	Dices)		· ·
Туре		Supplier	Units	Quantity
	Pirc		FT	13
2" GALVIN	vized Pier		FT	120
6" Cosi V			GA.	2
TRAFFIC CONT	we Since		EA	12

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F-350

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REMARKS: 3th Floygens Phid De Bid ITEM

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l(` Date Inspector Dafe Contractor's Representative Payment for Force Accounts will be in accordance with the City of Portland Standard Specifications 109.04 sub 3: Force

Account Work. Invoices for materials and subcontracted work must be submitted before payment will be made. (3/96)

## DAILY PROGRESS REPORT

Job No. 2/0014 Prime: Emery and sons Job Name: Fr an Date/Day 11/4/2010 thursday 11/5/2010 Friday Report No. #78 Weather Clear Temp. Photos Taken: (Yes)/ No (circle one) Subcontractors # of Workers Maggine Trade A.C.nats Prime Α В С B. Brd Construct C. Superintendent Foreman-Drive Inan I Work Area: SE oster Contractor Start Time: Stop Time: 730 AM Pipe Layer 700 pm Stop Time: 7:00 Am Equip Operator Traffic Control Start Time: 830 Om New 36"RCP.up to Exsisting MHACTS 4 porer Work Progress: Insig ميبا Truck Driver bmiHaL#D Control Apprentice Bur S Inl control in Place Eroston Flagger 4 13 OUT 830 pm 1114/2010 Tra. lic Light Steel Worker tic Lights on 7:09 Am Crane Operator 540 starting Cem. Finisher Exsis un £F Carpenter and ending at station Electrician Worked toruch Borrs cu ina Fillingw 3/ the Bac same time hocpack OMPACI place Equipment in Use: 600 Komatsu Excava Dave ML FLLincs Survev 100 29D Link Belt Excuvator in coming to of vsisting MIH Dirts ocations of *Case tractor* 570 The purpose of Constru ing 9 weu) Tr 90 JD Excavator - hoe puck η iΔ its place Man 12CV Dump Second Crew F350 Taol Was mout Standby Equipment: main A 70 -11/1 3 r truck monitoring The JOE z 1245 OA. 42 davs on Jariance Permit Noise Joe Annell This: O COMPLAIN Carpied Noise + ot line Phone on meduri Materials Received (Type and Quantity): 200 CN Visitors: Hodge, Joc Maze Date Completed: 11 Crosier Signed: / 15e1 2010 Inspection Start Time: 700 pm_ Stop Time: 800Am Checked by Sr. Insp./CM: 0 Original: Main File Bureau of Environmental Services Yellow: Construction Manager PRGRS/RPRT: 7/12/02 Pink: Inspector

# DAILY PROGRESS REPORT

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Job No. <u>20/00/4</u>

Job Name: SE FOSER / Holgar	Prime:	Famery + 30	<u>~~</u>					
Report No. The Date/Day 11/4/2010, 740. Weather U				. 4	19	<b>}</b>		
Subcontractors	Photos Tak	en: <del>No</del> s / No	(circle	one)				
A. CONTRE Flogging		Trade	1	f Wor				
B. Michels Curp - Gronting.			Prime	A	В	C		
<u> </u>		Superintendent	3					
Work Area: SE Fastin / Holgrin		Foreman	ŧ		1			
	1:30	Pipe Layer			_			
Traffic Control Start Time: 20:00 Stop Time:	?	Equip Operator						
Work Progress: Set up TROFFIC CONTROL TO PLAN	J,	Laborer			1			
Held Pre Event meeting with Granting Frommend.		Truck Driver						
Exposed Swant Holes & MONITORING PUINTS,		Apprentice						
TOOL INITIAL Replings on 60" White My	nin	Flagger		3				
Then Took Sward more As work Prog		Steel Worker						
Grow Ting Proceedure was 3 STRAT on FUR		Crane Operator						
going From NORM TO South, Then SO TO E.		Cem. Finisher						
Side WIRKING SOUTH TO NOWTH, Growing		Carpenter						
was Alread, with 2" Pin + 2" Pine Romoved		Electrician						
Poch would Seal Hole, Growting ST								
No house level and moved up &' har a								
with Pressing of 75 PST AT Depty 12'+	Equipment in Us	Equipment in Use:						
And 30 PSI 12-5' Depth. IF Presens wear			CASE SOU B. Hore					
Sustained That Fudinand Anen was Fullo	Survey	2 aus TRZ		······				
	- Juste Stor an 60" unin when Growning stopped			18 Tool Tenin				
And Again / Loin. Then was no Reading	Change	MANUAL Grout Pump						
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Date Completed: $\frac{11/5/2010}{5}$ Sign	ned:	Mozer				•••••		
L	cked by Sr. I	nsp./CM: <u>eff</u>						
	u of Environmen RS/RPRT: 7/12/0:							

# DAILY PROGRESS REPORT

Job No. E0/0014

Job Name: FOST / Holgann Report No. 77 Date/Day 11/3/10,	WED	Prime: <u>Em.</u> Weather <u>C</u>		Temp	. 4	2
Subcontractors			: Yes / 🔞			
A. CON FLAGS, No.			Trade	1	f Work	keri
B.				Prime	A	B
С.			Superintendent	1	┼─┼	
Work Area: SE FOSTER & HolgATE		11/4/2010	Foreman	1		******
Contractor Start Time: 1900	Stop Time: 🔊 🔿 4		Pipe Layer			
Traffic Control Start Time: ۵۷'یین	Stop Time: • 👌		Equip Operator	1		
Work Progress: Contine Tur Situp T			Laborer	2		
Pur Pinno. Gen Then Excave	Ted And Fa	smiller	Truck Driver			
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SEE ATTACKed Growing The	A. Kan	<u></u>	Standby Equipme	nt:		
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Materials Received (Type and Quantity):						

Visitors: Gray Holy DANC (Survey)	Bug
Date Completed:	Signed: for Mage
Inspection Start Time: $18.30$ Stop Time: $04.30$	Checked by Sr. Insp./CM:
Original: Main File Yellow: Construction Manager Pink: Inspector	Bureau of Environmental Services PRGRS/RPRT: 7/12/02

(. .



BURT SE Foster and Holgate Traffic control for Insullation of Grout tubes Roadwork Ahaad (1) Depreparent to stop mary Righton Left 2 Beprepared to stop Comes with Flagger Right Lune Closed Rd Closed type three Burricade (4) Left Lune Closed ()

### **Ryan Ward**

From: Sent: To: Subject: Derek Fitzpatrick - 1615 PORTLAND_WATERWORKS [derek.fitzpatrick@ferguson.com] Tuesday, December 28, 2010 3:39 PM Ryan Ward Email Bid# B136266

## Price Quotation # B136266

## SALEM, OR WW #1615

3650 KASHMIR WAY SOUTHEAST SALEM, OR 97317-0000

> Phone : 503-362-2436 Fax : 503-362-2408

Bid No:	B136266		
Bid Date:	12/28/10	Cust Phone:	503-588-7576
Quoted By:	DRF	Terms:	2% 10TH NET 25TH
Customer.:	EMERY & SONS CONSTRUCTION INC	Ship To:	EMERY & SONS CONSTRUCTION INC
	PO BOX 4109		PO BOX 4109
	SALEM, OR 97302		SALEM, OR 97302

Cust PO#:		Job Name.:						
Item	Description	Quantity	Net Price	UM	Total			
SDR35PU14	6X14 SDR35 PVC GJ SWR PIPE	14	2.970	FT	41.58			
IVB910TOP	18 CI VLV BX TOP ONLY	1	50.000	EA	50.00			
IVB910WTR	CI VLV BX WTR LID F/ 910	1	19.450	EA	19.45			
IGPTCA53D	1/2 GALV T&C A53A S40 PIPE	21	102.150	С	21.45			
SDR35P1814	18X14 SDR35 PVC GJ SWR PIPE	14	19.040	FT	266.56			
SP-DR25GP36	36 C905 DR25 CL165 PVC GJ PIPE	20	98.880	FT	1977.60			
IGCD	1/2 GALV MI 150# COUP	10	1.900	EA	19.00			
		Net Total: Tax: Total:	2395.64 0.00 2395.64	)				

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <u>http://wolselevna.com/terms_conditionsSale.html</u>. Govt Buyers: All items quoted are open market unless noted otherwise.



# INVOICE

INVOICE DATE .	INVOICE NUMBER
10/29/10	S5476483.001
PLEASE REMIT	PAYMENT TO:
CONSOLIDATED PO BOX 5788	SUPPLY
PORTLAND OR 9	7228-5788

QUESTIONS ON THIS INVOICE 503-361-7473

E0004 10075 D264080395 P649684 0019:0020

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EMERY & SONS CONSTRUCTION PO BOX 4109 SALEM OR 97302-8109

### SHIP TO:

EMERY & SONS CONSTRUCTION MAIN ACCOUNT 3831 FAIRVIEW INDUSTRIAL DR SE SALEM OR 97302

CUSTOMER NUMBER	CUSTOMER ORDER NUMBER	and the C	RDERED BY	in in the second	SALES	PERSON	HOME BRANCH
34768	13465	<u></u>	JIM	Ry	an Stok	es – Salem	12
ORDER_WRITER		SHIP VIA	an a	SHIP D	ATE	ORDER DATE	SHIP BRANCH
Ryan Stokes - Sa	lem WC	C23 WC 2:30 P	M	10/29	/10	10/29/10	12
	DESCRIPTION	singer and	ITEM NUMBER	SHIP QTY	-∞ ⁻ U/M	NET UNIT PRC	NET AMOUNT
2"X21' S40 GAL T&C S IMPORT	STEEL PIPE		7941	84	ft	3.366	282.74
,		1					
Ok'd by	Ryan Ward						
Emery	& Sons Constructio	'n				1	
PO/Sub	#						
W.O. #	13465						
CC #_	# <u>13465</u> 1600-000005 11/8/10						
Date	11/8/10						
					1		
EFEILED	SAVE TIME AN	ND MONEY N	WITH OUR	FREE E-E	BILLING	S SERVICE	
We a	now offer e-mail as a conv	enient way for yo	u to receive you	ur invoices an	nd stateme	ents. Receive them	faster,
so y	ou can bill your customers	faster. Our goal	is to make it ea	sy for you to r	receive an	id manage your inv	voices.
WILL MONE	ontact Sarah at marsar@	Save time and mo				227.8	
	maer Galali at maisal@	consolidateusu	phy.com or by	prione at (50	13) 906-32	237 & get setup to	dayi
	· · · · · · · · · · · · · · · · · · ·					0007074	
If paid by 11/10/10 you					Ļ	SUBTOTAL FREIGHT	282.74
Invoice is due by 11/3	0/10 net of any cash dis	count.	1072972010 2:00:32 PM	55476483,001	F	SALES TAX	0.00
			n.a	Hitt		AMOUNT	0.00
			Jul 1	Martine		DUE	282.74
			MIL				



## Pumps & Pump Stations | Agricultural Irrigation | Water Treatment | Water Systems

1810 Lana Ave NE, Salem OR 97301 503-585-5550 local 866-985-5550 toll-free 503-581-6799 fax CCB #33228

Bill To:	Ship To:			
EMERY & SONS CONSTRUCTION, INC	EMERY & SONS CONSTRUCTION, INC			
PO BOX 4109	PO BOX 4109			
3831 FAIRVIEW INDUSTRIAL DR SE	3831 FAIRVIEW INDUSTRIAL			
SALEM, OR 97302	SALEM, OR 97302			
Invoice #: 84190 Invoice date: 10/29/10 Payment terms: NET 10TH OF MONTH Customer code: EMESONCO	P.O.#: 13465 Ship via: Salesperson: ERIC ROSS			

Remarks:

## Order Taken By: ERICR

Quantity	· U/M	Part Number	Description	and the first start of the second	ang digerang takka dari taga saya ke. Kang digerang takka dari taga saya ke.	Unit Cost	Extension
1.00	EA	INS	THREAD CH	IARGE		42.500	42.50
						Total:	42.50

Ok'd by Ryan Ward Emery & Sons Construction
PO/Sub #
W.O. #
CC # 1600 - 00005
Date11/3/10

A FINANCE CHARGE WILL BE ASSESSED AT 1 1/2% PER MONTH (18% PER ANNUM) ON PAST DUE BALANCE.

Consolidated Supply Co. P.O. Box 5788 Portland, OR 97228

# INVOICE

INVOICE DATE	INVOICE NUMBER
11/02/10	S5478716.001
PLEASE REMIT	PAYMENT TO:
CONSOLIDATED PO BOX 5788 PORTLAND OR S	

QUESTIONS ON THIS INVOICE 503-361-7473

194 1 AB 0.360 E0010 10017 D264533137 P650484 0003:0003

## ւլլլլներիներին հերկերեն հերկերին հերկերին հերկերին հերկերին հերկերին հերկերին հերկերին հերկերին հերկերին հերկե

**EMERY & SONS CONSTRUCTION** 

PO BOX 4109

SALEM OR 97302-8109

### SHIP TO:

EMERY & SONS CONSTRUCTION MAIN ACCOUNT 3831 FAIRVIEW INDUSTRIAL DR SE SALEM OR 97302

CUSTOMER NUMBER	CUSTOME	R ORDER NUMBER	OR	DERED BY		SALES	PERSON	HOME BRANCH
34768		13465		JIM	А	dam Moo:	re - Salem	12
ORDER_WRITE	ER		SHIP VIA		SHIP (	DATE	ORDER DATE	~ SHIP BRANCH
Adam Moore -		WCN	WC NOW		11/0:	2/10	11/02/10	12
				TEM NUMBER	SHIP QTY	U/M .	NET UNIT PRC	NET AMOUNT
	iked Solvays Emery & S	The Man		7941	42	ft	3.366	141.3
If paid by 12/10/10	Ve now offer e o you can bill Contact Sara you may dec	ah at marsar@consi  luct \$2.83	nt way for you er. Our goal is time and mor olidatedsupp	to receive you to make it ea ney while helpi	ur invoices a sy for you to ing us "Go G	nd statem receive ai reen".	ents. Receive them nd manage your inv 237 & get setup to SUBTOTAL	oices.
Invoice is due by 12	2/31/10 net c	f any cash discoun	it.	162/2010 10:21:51 .7.4	55478716.001		FREIGHT	
				1.01			SALES TAX	0.00
				Jan H	latars		AMOUNT DUE	141.37

**Invoice 84227** 



Pumps & Pump Stations | Agricultural Irrigation | Water Treatment | Water Systems

1810 Lana Ave NE, Salem OR 97301 503-585-5550 local 866-985-5550 toll-free 503-581-6799 fax CCB #33228

Bill To:	Ship To:		
EMERY & SONS CONSTRUCTION, INC	EMERY & SONS CONSTRUCTION, INC		
PO BOX 4109	PO BOX 4109		
3831 FAIRVIEW INDUSTRIAL DR SE	3831FAIRVIEW INDUSTRIAL		
SALEM, OR 97302	SALEM, OR 97302		
Invoice #: 84227 Invoice date: 11/03/10	P.O.#: (3465)		
Payment terms: NET 10TH OF MONTH	Ship via:		
Customer code: EMESONCO	Salesperson: RODNEY PEREZ		

Remarks:

### Order Taken By: ROD

· Quantity	U/M	Part Number	Description	terrent de la constante de la constante la constante de la constante de la constante de la constante de	Unit Cost	Extension
1.00	EA	INS	THREAD CHARGE		24.000	24.00
6.00	EA	GFC020	GALV COUPLING 2		6.030	36.18
					Total:	60.18

Ok'd by R Emery &	tyan Wa Sons C	rd .onstruc	tion
POISub #	134	65	
W.O. #_ CC #	600-00	0004	
Date	12/1	w	



A FINANCE CHARGE WILL BE ASSESSED AT 1 1/2% PER MONTH (18% PER ANNUM) ON PAST DUE BALANCE.


# **Michels Corporation**

Please Make Check Payable to & Remit To:



Attn: Accounts Payable

PO Box 4109

Salem, OR 97302

Michels Job No.

Emery & Son's Construction Inc.

Phone: (503) 364-1199 Fax: (503) 391-8317

00516

**Michels Corporation** Post Office Box 1719 Fond du Lac, WI 54936-1719

Date: 12/13/2010

> PLEASE PAY ON INVOICE. NO STATEMENT ISSUED UNLESS REQUESTED.

	Michels Job No. Customer No.	00516			INVOICE NO.	10-1188
	ousiomer no.	12454			TEDMO, NET	
ITEM		DESCRIPTION	QUANTITY	RATE	TERMS: NET	
	Re: SE Foster & Holga	te Sewer Replacement ipe bedding between water line & bri			<u>ΕΛ</u> (	TOTAL
1 2 2	Mobilization, per occurre Labor & Equipment Chemical Grout		1 LS 5 HR 10 Gal	\$2,200.00 \$375.00 \$125.00	\$2,200.00 \$1,875.00 \$1,250.00	
					Amount Due:	\$5,325.00

Fo	r Internal Use Only	
Total Sales:	\$	5,325.00
Taxable Amount:	\$	-
Sales Tax:	\$	-
Retainage:	\$	266.25
Invoice Amount:	\$	5,058.75

PAYMENT SHALL BE MADE WI 30 DAYS FOLLOWING THE DATE OF INVOICE OR COMPLETION OF WORK, WHICHEVER IS EARLIER. A LATE CHARGE OF 1 1/2% PER MONTH WILL BE ASSESSED ON UNPAID BALANCES. IN THE EVENT SUIT OR ACTION, INCLUDING ANY APPEAL THEREFROM, IS BROUGHT TO ENFORCE ANY TERMS OF THIS AGREEMENT, THE PREVAILING PARTY SHALL BE ENTITLED TO SUCH REASONABLE ATTORNEY'S FEES AND COSTS AS MAY BE AWARDED BY THE TRIAL APPELLATE COURTS.

#### **Ryan Ward**

From: Sent: To: Subject: Derek Fitzpatrick - 1615 PORTLAND_WATERWORKS [derek.fitzpatrick@ferguson.com] Tuesday, December 28, 2010 3:39 PM Ryan Ward Email Bid# B136266

### Price Quotation # B136266

#### SALEM, OR WW #1615

3650 KASHMIR WAY SOUTHEAST SALEM, OR 97317-0000

> Phone : 503-362-2436 Fax : 503-362-2408

Bid No.....: B136266 Bid Date...: 12/28/10 Quoted By: DRF Customer.: EMERY & SONS CONSTRUCTION INC PO BOX 4109 SALEM, OR 97302

Cust Phone: 503-588-7576 Terms......: 2% 10TH NET 25TH Ship To.....: EMERY & SONS CONSTRUCTION INC PO BOX 4109 SALEM, OR 97302

Cust PO#..:

Job Name.:

Item	Description	Quantity	Net Price	UM	Total
SDR35PU14	6X14 SDR35 PVC GJ SWR PIPE	14	2.970	FT	41.58
IVB910TOP	18 CI VLV BX TOP ONLY	1	50.000	EA	50.00
IVB910WTR	CI VLV BX WTR LID F/910	1	19.450	EA	19.45
IGPTCA53D	1/2 GALV T&C A53A S40 PIPE	21	102.150	С	21.45
SDR35P1814	18X14 SDR35 PVC GJ SWR PIPE	14	19.040	FT	266.56
SP-DR25GP36	36 C905 DR25 CL165 PVC GJ PIPE	20	98.880	FT	1977.60
IGCD	1/2 GALV MI 150# COUP	10	1.900	EA	19.00
		Net Total: Tax: Total:	2395.64 0.00 2395.64	1	

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <u>http://wolselevna.com/terms_conditionsSale.html</u>. Govt Buyers: All items quoted are open market unless noted otherwise.

1





<b>CONTRACT</b> #	30001292	CHANGE	ORDER #	2		-
<b>Project Name:</b>	Foster & Holgate Sewer Replacement					(1)
<b>Company:</b>	<b>Emery &amp; Sons Construction Inc.</b>		Project	Number:	10014	
Address:	P.O. Box 4109, 3831 Fairview Industri	al Dr SE	Bid Nu		111566	
City, State, Zip:	Salem, OR, 97302	e				

Remove and replace the existing MH-ACJ540 and pour a cast-on-place Manhole Base, similar to Detail P-151 in the City of Portland Standard Details. The balance of the manhole shall be precast concrete, to be submitted and approved.

The cost was calculated per Force Accounts for the Labor, Equipment, Materials, and Subcontractor needed to replace MH-ACJ540. See attached Force Account Sheets and Calculations.

This change order is subject to and incorporates the provisions of Subsection 109.16-B of the Standard Specifications. By signing this form the Contractor agrees that the information presented herein is complete, accurate, and resolves all issues of contract time and compensation associated with the work identified herein.

The above-ordered change order will increase the contract amount by \$56,406.60

The above-ordered change order will increase the contract time by 8 days.

To be completed by Contractor:	
Has consent of Surety been obtained?	() Yes () Not necessary
Will this change affect expiration or extent of insurance coverage?	() Yes () No
If yes, will the policies be extended?	() Yes () No

Construction Manager

#### Approved by:

**Emery & Sons Construction Inc.** 1

Authorized Representative

**Bureau of Environmental Services** 200

Construction Division Manager

Inspector II

Auditor's Office (131/401)

CC: BES Accounting (106/1000)

Contractor (original)



CONTRACT #	30001292 C	HANGE (	ORDER # 3	
Project Name:	Foster & Holgate Sewer Replacement			
<b>Company:</b>	Emery & Sons Construction Inc.		Project Number:	10014
Address:	P.O. Box 4109, 3831 Fairview Industrial	Dr SE	Bid Number:	111566
	Salem, OR, 97302			

# FINISH GROUTING AND INSTALLING NEW 60" MANHOLE

Remove and replace the existing MH-ACJ540 and pour a cast-on-place Manhole Base, similar to Detail P-151 in the City of Portland Standard Details. The balance of the manhole shall be precast concrete, to be submitted and approved.

The Contractor shall finish the installation of the new 60" Manhole, including grouting around the 36" sewer pipe in order to complete the manhole work.

The cost was calculated per Force Accounts for the Labor, Equipment, and Materials needed to complete the replacement of MH-ACJ540.

This change order is subject to and incorporates the provisions of Subsection 109.16-B of the Standard Specifications. By signing this form the Contractor agrees that the information presented herein is complete, accurate, and resolves all issues of contract time and compensation associated with the work identified herein.

The above-ordered change order will increase the contract amount by \$496.54 The above-ordered change order will increase the contract time by 1 days.

To be completed by Contractor: Has consent of Surety been obtained? Will this change affect expiration or extent of insurance coverage? If yes, will the policies be extended?

() Yes () Not necessary () Yes () No () Yes () No

Approved by:

**Emerv & Sons Construction** 

Bureau of Environmental Services

CC: BES Accounting (106/1000)

Contractor (original)

Construction Manager

Inspector II

Auditor's Office (131/401)



<b>CONTRACT #</b>	30001292 UNILATERAL CHANGE ORDER # 4			
<b>Project Name:</b>	Foster & Holgate Sewer Replacement			
<b>Company:</b>	<b>Emery &amp; Sons Construction Inc.</b>	<b>Project Number:</b>	10014	
Address:	P.O. Box 4109, 3831 Fairview Industrial Dr SE	Bid Number:	111566	
City, State, Zip:	Salem, OR, 97302			

CONNECTION AT MH-3 AND POURING SLAB OVER 60" WATER MAIN.

The contractor shall manually form a closure collar to connect the existing sewer with the newly installed sewer line, in lieu of installing MH-3. Prep, pour and backfill protective slab over 60" water main between MH02-A1.

The cost was calculated per Force Accounts for the Labor, Equipment, Materials, and Subcontractor needed to install the closure collar and pouring the slab over the 60" Water Main.

This unilateral Change Order provides all compensation by the City of Portland to the Contractor for all things done or furnished in connection with the work done under this Change Order.

The above-ordered change order will increase the contract amount by \$58,902.17

The above-ordered change order will not change the contract time.

**Bureau of Environmental Services** 6/20/2011 Construction Division Manager Date

CC: BES Accounting (106/1000)

Contractor (original)

1)

Construction Manager

Inspector II

Auditor's Office (131/401)



CONTRACT #	30001292	UNILATERAL CHANGE ORDER # 5		
<b>Project Name:</b>	Foster & Holgate Sewer Replacement			
Company:	Emery & Sons C	onstruction Inc.	<b>Project Number:</b>	10014
Address:	P.O. Box 4109, 3	831 Fairview Industrial Dr SE	<b>Bid Number:</b>	111566
City, State, Zip:	Salem, OR, 9730	2		

DEDUCTION OF LIQUIDATED DAMAGES FOR 135 DAYS.

Execution of this change order is to create a line item in the contract to allow for the accounting deduction of the assessed liquidated damages which are being enforced in conformance with Contract Specifications Section 00180.80(b).

The contract allowed 120 days for completion of contract. The work went over that amount by 135 days for a total of 255 days for completion of contract. The amount of liquidated damages assessed reflects the 11 additional days associated with change orders 1, 2 & 3. The liquidated damages withheld are for 135 days and assessed at \$1,100.00 per calendar day is \$148,500 per Specification Section 00180.80(b) – Liquidated Damages. Total liquidations damages amount to \$148,500.00.

See Attachment 1 for determining the breakdown of the liquidated damages.

This unilateral Change Order provides all compensation by the City of Portland to the Contractor for all things done or furnished in connection with the work done under this Change Order.

The above-ordered change order will reduce the contract amount by \$148,500.00

The above-ordered change order will not change the contract time.

**Bureau of Environmental Services** 6/20/2011 Construction Division Manager Date

Inspector II

CC: BES Accounting (106/1000)

Contractor (original)

Construction Manager

Auditor's Office (131/401)

June 17, 2011

# Attachment 1:

RE: Foster & Holgate Sewer Replacement Contract No: E10014 Contract No: 30001292 Change Order 5		
Notice to Proceed	May 24, 2010	
Original Contract Value Changes to Date;	\$ 427,199.00 - @ 120 day	'S
CO#01 Consolidated Grouting @ 60" Water Main	\$ 14,010.79 @ 2 day	ys
CO#02 Add 60" MH with CIPP Base @ 66 th & Foster	\$ 56,406.60 @ 8 day	
CO#03 Finish Grouting @ 60" manhole	\$ 479.40 @ 1 day	
Revised Contract Value & Duration	\$ 498,095.79 131 da	ays
Revised Contract Completion Date	October 2 nd , 2010	
Substantial Completion	February 14, 2011	
Actual Project Duration	266 da	ys
Liquidated Damages @ \$1,100.00 per day	\$ 148,600.00 135 da	ys
Contract Work Completed to Date; (Payment #11) Change Orders #1, 2 & 3 Total Earned to Date: Less LD Total TOAL Amount Payable to Date:	\$ 543,241.51 <u>\$ 70,896.79</u> \$ 614,138.30 <u>\$ 148,500.00</u> \$ 465,638.30	

.

Printed on Recycled Paper

TDD 503-823-3520



<b>CONTRACT</b> #	30001292 CHANGE ORDER # 6		
<b>Project Name:</b>	Foster & Holgate Sewer Replacemen	nt	
<b>Company:</b>	<b>Emery &amp; Sons Construction Inc.</b>	Project Num	ber: 10014
Address:	P.O. Box 4109, 3831 Fairview Indust	trial Dr SE Bid Number:	111566
City, State, Zip:	Salem, OR, 97302		

#### FINAL CHANGE ORDER RESOLUTION

This change order settles all claims between the City of Portland, Bureau of Environmental Services and Emery & Sons Construction, Inc. arising out of the Foster & Holgate Sewer Replacement project.

This change order provides full and final compensation for labor, equipment, materials and incidentals for the Contractor's costs to date. No additional costs will be considered.

- 1. Contractor has replaced the old failing 36" brick sewer with a new sewer via Bore and Jack under the intersections of SE Foster Rd and SE Holgate Blvd between 62nd Ave and 63rd Ave and SE Foster Rd between 66th Ave and 67th Ave. Work includes diversion of flow and erosion control. Compensation for this work shall be \$442,685.
- 2. Contractor shall be granted 106 Calendar Days time extension.
- 3. Contractor shall be credited 106 Calendar Days of Liquidated Damages previously assessed. Reimbursement shall be 106 Calendar Days at \$1,110 per Calendar Day for a total of \$116,000.

This change order is the final resolution of any and all claims for compensation and/or time made by Contractor on the project. Contractor has no other outstanding claims against the City of Portland related to the project in any way whatsoever. Upon execution of this change order, Contractor releases and holds the City or Portland harmless from any and all claims, known or unknown, with respect its work or the work of its subcontractors, on the project.

The Contractor shall be compensated the negotiated settlement of \$559,285. Work shall include all labor, materials, equipment, and incidentals for the installations and modifications noted above.

This change order is subject to and incorporates the provisions of Section 00196.10 (b) of the Standard Specifications. By signing this form the Contractor agrees that the information presented herein is complete, accurate, and resolves all issues of contract time and compensation associated with the work identified herein.

The above-ordered change order will increase the contract amount by \$559,285.00

The above-ordered change order will increase the contract time by 106 days.

<b>CONTRACT #</b>	30001292 C	HANGE ORDER # 6	
<b>Project Name:</b>	Foster & Holgate Sewer Replacement		
<b>Company:</b>	<b>Emery &amp; Sons Construction Inc.</b>	<b>Project Number:</b>	10014
Address:	P.O. Box 4109, 3831 Fairview Industrial	Dr SE Bid Number:	111566
City, State, Zip:	Salem, OR, 97302		

To be completed by Contractor:	
Has consent of Surety been obtained?	() Yes () Not necessary
Will this change affect expiration or extent of insurance coverage?	() Yes () No
If yes, will the policies be extended?	() Yes ( ) No
If yes, will the policies be extended?	() Yes () No

### Approved by:

**Emery & Sons Construction Inc.** Bureau of Environmental Services 2 12-2011 2. in Construction Division Manager Authorized Representative Date Date

CC: BES Accounting (106/1000)

Contractor (original)

Construction Manager

Auditor's Office (131/401)

Inspector II

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Job No.	E10014		
Job Title:	Foster & Holgate Sewer Replacement		
Contractor:	Emery & Sons Construction, Inc.		
Inspector:	Gary Hodge		

#### **PIPE COMPLETION**

No. ____ Partial ____ Final __X

On ______ the pipe laying on this job was completed in the following locations:

and this phase of the job can be placed in service.

The "As-built" for this phase of the job was turned in on. May 23, 2011

# Mark Hutchinson Construction Project Manager

Applications may be received and permits issued for house connections to the above listed sewers.

Distribute copies to:

Development Assistance Bureau of Maintenance BES Accounting B299/5000 B316/Engr. Support B106/1000

#### **JOB COMPLETION**

The subject job has been completed.

Specified Completion Date:January 16, 2011Completion Date:February 14, 2011

Mark Hutchinson Construction Project Manager

Distribute copies to:

Development Assistance Bureau of Maintenance BES Accounting

B299/5000 B316/Engr. Support B106/1000



**BUREAU OF ENVIRONMENTAL SERVICES** 

# FINAL PROJECT REPORT FY 2009 - FY 2010



# **Foster & Holgate Sewer Replacement**

Job No. E10014

Bid No. 111566

Contract No. 30001292

April 10, 2012



# By: Bill Theiss and Ayda Forouzan

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#### **PROJECT STAFF:**

Contractor:	Emery & Sons Construction, Inc.
<b>Construction Manager:</b>	Bill Theiss
BES Inspection:	Gary Hodge
Project Technician:	Jason Leman and Dawn Pfarr
Design Manager:	Ayda Forouzan
Design Consultant:	Not applicable

#### FINAL PROJECT STATUS:

Notice to Proceed:	May 24, 2010
Scheduled Contract Time:	120 Calendar days
Scheduled Completion:	September 21, 2010
Additional Contract Time:	117 Calendar Days
<b>Revised Completion:</b>	January 16, 2011
Final Completion:	February 14, 2011
Days Delinquent:	29 Calendar Days
Substantial Completion:	January 14, 2011
<b>Original Contract Amount:</b>	\$427,199.00
Change Orders:	\$540,601.10
Quantity Increase:	\$124,327.54
Quantity Decrease:	-\$8,302.47
Final Amount Earned:	\$1,083,825.17, which is 253.70% over the original Contract amount.

The City completed inspection of the sewer on January 13, 2011. Construction of the new pipes and manhole installation were completed and accepted as of January 14, 2011.

#### **CHANGE ORDERS:**

There are 6 change orders issued on this project. Change orders amounted to 226.55% of the original contract amount.

Change Orders	Description	Туре	Amount	Days
1	GROUT BENEATH THE 60-INCH WATER MAIN	CC	\$14,010.79	2
2	REPLACE THE MH-ACJ540 WITH A CAST-IN- PLACE BASE	OE	\$56,406.60	8
3	FINISH GROUTING AND INSTALLING NEW 60- INCH MANHOLE	СС	\$496.54	1
4	CONNECTION AT MH-3 AND POURING SLAB OVER 60-INCH WATER MAIN	DM	\$58,902.17	0
5	DEDUCTION OF LIQUIDATED DAMAGES FOR 135 DAYS	DC	-\$148,500.00	0
6	FINAL CHANGE ORDER RESOLUTION	СС	\$559,285.00	106
		TOTAL:	\$540,601.10	117

#### **PROJECT BACKGROUND:**

This project is part of the 8400 series of projects. The existing cast in place concrete pipes on SE Foster Rd and SE Holgate Blvd between 62nd Ave and 63rd Ave and brick pipes SE Foster Rd between 66th Ave and 67th Ave. were planned to be replaced as part of the Foster Sewer Rehabilitation project E08870 due to cracking and ovality. SE Foster is a very busy Street in the area of both pieces of the work, and the Foster Holgate intersection is a particularly congested busy area.





Photos illustrate traffic, businesses, and pedestrians in SE 66th and SE Foster.



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In addition to the traffic challenges, several large utilities (60-inch waterline, 36-inch waterline, telephone duct banks, and 6-inch gas lines) were built over the top of the pipes complicating the design and construction. Initially these pipe replacements were part of the Foster project but due to utility and traffic challenges the Construction and Design Team elected to bid them separately. The two pipes were removed and combined into the standalone Project E10014 - Foster and Holgate.



36-inch waterline at SE Foster Rd. Photo taken by Emery & Sons.

#### **PROJECT DESCRIPTION AND OBJECTIVES:**

The project's primary objective was replacement of various sewer segments that had reached the end of their service life and whose maintenance was no longer cost-effective. The goal was achieved by constructing approximately 350 feet of 36-inch RCP combination sewer pipe, manholes and associated laterals and inlet leads, using conventional open cut construction methods, while preserving existing water transmission lines, and other large utilities.

A secondary objective was to maintain access to Traffic, the Public and local merchants. The intersection of SE Holgate Blvd & SE Foster Rd, being a main thoroughfare for west and east bound traffic, made traffic control a key issue in the construction work. The work was therefore done in evenings and weekends. A Noise Variance was obtained with the original project E08870 and was updated to cover this work.

These objectives were met.

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#### **COMPARISON WITH FINAL DESIGN REPORT:**

Foster & Holgate project design called for construction of approximately 350-feet of 36-inch RCP combination sewer pipe using open trench method. The sewer line on SE Foster and Holgate although bid as standard open cut construction that construction method was deemed impossible by the contractor who eventually built it using Jack and Bore methods. The planned alignment on SE Holgate was changed, a manhole was added, an existing manhole was deleted, and concrete closure collar was added to accommodate existing utilities and sewer alignment. The existing manhole on 66th was replaced due to poor condition with a new manhole. The project was bid as a 120 day contract and completed in 255 days.



New Manhole at SE 66th Ave.

#### **SUGGESTIONS FOR IMPROVEMENT:**

1. Consider allowable variation in utility locations impact on the design. The Qwest duct bank was shown on the drawings as located by the utility, the actual location varied from what was shown. It was located further south (toward Manhole 2) than indicated and was within 7-feet of the proposed new manhole. This required a design change on the project and Manhole 2 was relocated. Therefore, the manhole could not be a pre-cast manhole as proposed in the contract. May want to consider a requirement to pothole critical utilities 30 days prior to construction to provide time for design changes.

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2. Provide As-built drawings in the bid documents for waterlines larger than 18-inch. In this project, the work consisted of open-cut sewer replacement underneath a 60-inch waterline in the Foster and Holgate intersection. The as built drawings showed a concrete slab over the waterline this made it hard for the Contractor to support the waterline and shore underneath it as they had planned at bid time. The design construction team discussed this and elected to not show them in the plan set. Legally we are required to include or provide access to the drawings prior to bid, or pay for the result of the added difficulty.



Exposed 60-inch Water main bedded in clean running sand.

3. Incorporate engineering criteria in the Contract Specifications that the Contractor can use to prepare their Engineering Stamped Utility Protection plan. The Contract required that the 60-inch waterline be supported; however, the specifications or Plans did not address what was to be included in the submittal. In addition, the fact that the water main was bedded in sand was an issue. Not knowing what was required resulted in the Portland Water Bureau rejecting the contractor's first three submittals since the submittals did not meet their requirements. The Contractor did an effort to install buried beams and used chemical grouting to support the soils and waterline, but ultimately the contractor abandoned trenching under the 60-inch water line because his approved method of shoring under the waterline was rejected by the Water Bureau Site inspector.



Sinkhole caused by trench sloughing.

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- 4. Recommend longer contract time on difficult projects to accommodate extra time required to review submittals, special requirements, and unknown conditions of the site, such as heavy traffic control or utilities. This job required night work and complete restoration of the street every day, combined with crossing many difficult utilities. The 120 day contract time was used up rather quickly. This was partially the Contractor's fault since they did not start work until 54 days after the Notice to Proceed was signed, leaving 66 days to do the work. Late start was exacerbated by the 11 days the team spent redesigning the alignment to accommodate existing utility locations, leaving 55 days to do the work. Another 25 days were lost after work was stopped and utility support submittals were re-developed reviewed and processed, leaving 30 days to do the work. This caused the City to apply Liquidated Damages to the contract when the work was not completed within the 120 contract days. The project was completed on February 16, 2012; this is 117 days after the planned September 21st, 2010 completion date.
- 5. Suggest a Utility Support and Engineered shoring meeting be scheduled with the Contractor early in the project. Rules, guidelines, and expectations need to be established prior to construction starting. In this project a Utility Support meetings was scheduled half way through the project and after the construction team had encountered issues with the Contractor not following BES directives. At this early meeting, the Construction Manager needs to emphasize that shoring needs to be installed according to the approved submittal. In this project there were several occasions when the Contractor's shoring installation did not comply with the approved submittal. In other occasions the Contractor delivered the wrong size manhole box and delayed work until the correct size was on site. Steel sheets that were the incorrect thickness were also delivered to the jobsite. Another time the excavation proceeded without end support allowing caving under the waterline. The contractor had to be directed by the Construction Manager and Inspection staff repeatedly to follow their approved submittals.



Car crashed into contractors shoring during night work.



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- 6. Recommend performing the work under full road closure and detouring traffic. The shoring, safety, and utility support and protection would have been less complex and costly if the excavation could have been left open. The night work required I-beams to be buried and covered to support waterlines, special extra thick steel sheets to cover the large excavation, and safety risks for sewage diversion and shoring. The night work required multiple traffic control plans. The contractor worked at night for most of the project which required BES inspection staff to work nights and overtime. Working at night slowed down some of the work because businesses providing equipment are not open at night; therefore, the Contract at times did not have the proper equipment and supplies onsite. The 255 days project duration impacted the local night clubs and businesses.
- 7. Suggest a team meeting prior to construction to go over project issues, needs, and requirements. In this project improved coordination between field staff working nights and CM staff working days would have benefited from a team meeting at the beginning and throughout the construction, at least every week to go over the team issues. Conflicts between the site inspectors, project manager, and contractor on stressful projects complicate construction.
- 8. Assign one team: CM, inspector 2 and inspector 1 the responsibility for the project beginning to end. The bid schedule of the project changed and the project team was changed due to work load, and then during construction seven inspectors worked on this project due to the on and off again nature of the project that required work to be performed at night. This discontinuity made a difficult project more of a challenge with the difficult contractors' unorganized crew.

#### **ITEMS THAT WORKED WELL:**

 Safety issues were dealt with very quickly onsite with the Contractor, Owner and Inspection staff. For instance, when the heavy trucks were bending the steel sheets in the road Emery & Sons quickly removed and replaced them with thicker sheets.



Placement of steel sheets after installation of Manhole 1.

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#### **ITEMS THAT WORKED WELL (continued):**

- 2. None of the workman got hurt, with the night work, confined space work in jack and bore with sewage running through it during the day. With exception of the car accident.
- 3. The pipeline got built properly and should last another 100 years.
- 4. Waterlines were not broken.

#### FUTURE CIP OR O&M ISSUES:

There are no future CIP or O&M issues that will impact our new construction.

#### **RECORD DRAWINGS:**

Record drawings have been reviewed and accepted by the BES inspector. They were checked and transmitted to CADD on 05/23/2011. Copies were sent to the main file, Locates, and to the Designer.

#### **PROJECT PHOTOS:**



Rails being set for the 36-inch pipe to ride on to go into place

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36-inch waterline on Foster



Installing straps on 60inch water main support system.

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Jacking at new manhole on SE 66th Ave.



Contractor showing location of Manhole 3 marked on the steel sheet. Photo also shows the bend of the proposed pipe.

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Steel sheets going into boring pit for shoring.



Sink hole due to bank failure.



Sink hole covered with steel sheet.

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Traffic Control on 67th and Foster (Day time)



Traffic Control west bound Foster (Night time)

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Paving on 66th to 67th

#### **PROJECT COST:**

- Final amount earned by Emery & Sons for this work is \$1,083,825.17, which is 253.70% over the adjusted Contract Amount of \$427,199.00.
- The current life budget in PIPER is \$580,000. Based on the costs to date, and final contract amount, the project costs are \$1,448,669.62 or 250% over budget.

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#### **PIPER COST SUMMARY:**

Phase	Tow Code Description of Work	TOW Cost	% Total Cost	% Construction Costs
Predesign	30 - Inspection	\$1,028.70	0.07	0.09
Design	14 - Engineering	\$31,494.06	2.17	2.91
Design	20 - Construction Management - General	\$5,609.20	0.39	0.52
Design	30 - Inspection	\$810.03	0.06	0.07
Design	41 - Survey	\$225.02	0.02	0.02
Design	42 - Material Testing Lab	\$5,090.01	0.35	0.47
Design	45 - Mapping & GIS	\$63.17	0.00	0.01
Design	46 - Environ. Assessment & Doc	\$206.96	0.01	0.02
Design	47 - Public Involvement	\$1,697.29	0.12	0.16
Design	73 - Miscellaneous	\$101.18	0.01	0.01
Advertise-NTP	14 - Engineering	\$404.36	0.03	0.04
Advertise-NTP	20 - Construction Management - General	\$5,275.31	0.36	0.49
Advertise-NTP	30 - Inspection	\$1,384.52	0.10	0.13
Advertise-NTP	72 - Advertise-NTP Expenses	\$1,112.89	0.08	0.10
Construction	14 - Engineering	\$3,851.40	0.27	0.36
Construction	21 - Contract Management	\$96,900.54	6.69	8.94
Construction	24 - Claims, Legal, Audist	\$1,508.64	0.10	0.14
Construction	30 - Inspection	\$152,511.14	10.52	14.07
Construction	41 - Survey	\$9,156.44	0.63	0.84
Construction	42 - Material Testing Lab	\$2,302.50	0.16	0.21
Construction	46 - Environ. Assessment & Doc	\$21.60	0.00	0.00
Construction	47 - Public Involvement	\$9,525.87	0.66	0.88
Construction	60 - Construction Contract	\$1,083,975.92	74.79	100.00
Construction	61 - Inter-agency Construction	\$1,241.73	0.09	0.11
Construction	67 - OCIP - Premiums	\$750.00	0.05	0.07
Construction	73 - Miscellaneous	\$12,373.83	0.85	1.14
Startup/Closeou	21 - Contract Management	\$766.92	0.05	0.07
Startup/Closeou	24 - Claims, Legal, Audist	\$2,574.20	0.18	0.24
Startup/Closeou	30 - Inspection	\$12,042.95	0.83	1.11
Startup/Close ou	73 - Miscellaneous	\$5,342.26	0.37	0.49
		\$1,449,348.64		

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Mark Hutchinson, Construction Division Manager

Ayda Forouzan, Design Project Manager

Jamie De La Garza, Bill Ryan, Mark Hutchinson, Ayda Forouzan, Colleen Harold, Neil Choate, Scott Gibson, MTL, TRIM Folder 104.0, Const. Eng Project File.

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