

CAMINO REAL REGIONAL MOBILITY AUTHORITY BOARD RESOLUTION

WHEREAS, the Camino Real Regional Mobility Authority (CRRMA) entered into a Construction Agreement dated October 15, 2015 (Agreement) with Paso del Norte Trackworks for the construction of the infrastructure component of the El Paso Streetcar Project being developed by the CRRMA (Project);

WHEREAS, a change order, pursuant to the terms and conditions of the Agreement, is necessary to resolve various issues associated with the installation of the storm drain system required for the Project; and

WHEREAS, the parties therefore desire to execute a change order to memorialize the responsibilities of each party related to the additional work contemplated herein.

NOW, THEREFORE, BE IT RESOLVED BY THE CAMINO REAL REGIONAL MOBILITY AUTHORITY:

THAT the Executive Director is hereby authorized to execute Change Order No. 25 with Paso del Norte Trackworks, including any additional documents or materials as may be necessary, regarding the resolution of various issues associated with the installation of the storm drain system required for the El Paso Streetcar Project.

PASSED AND APPROVED THIS 13TH DAY OF DECEMBER, 2017.

**CAMINO REAL REGIONAL
MOBILITY AUTHORITY**

Susan A. Melendez, Chair

ATTEST:

Joe R. Fernandez, Board Secretary

APPROVED AS TO CONTENT:

Raymond L. Telles
Executive Director

CAMINO REAL REGIONAL MOBILITY AUTHORITY

El Paso Streetcar Infrastructure Project

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 0025.00

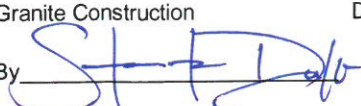
1. CONTRACTOR: Granite Construction
2. Change Order Work Limits: Sta: Throughout the project corridor
3. Type of Change: (Major/Minor) Major
4. Describe the change and the reason for the change order. When necessary, include exceptions to this agreement.

This change order is for the additional cost for materials and work incurred by the storm drain system modifications made throughout the project. CBD-IV storm drain modifications have been accounted for under other change proposals. Three storm-drain manholes were adjusted on Oregon. An existing storm drain inlet needed to be adjusted on the southwest corner of Kansas and Franklin to accommodate the new track grades. An OCS pole was relocated because an unmarked and unknown storm drain was discovered. On Stanton and Baltimore, the existing storm drain manhole and a level 3 manhole conflicted with the track. Granite had to raise the existing grated inlet to match track elevations on Baltimore and mesa. A precast grated inlet was installed at a low spot south of the intersection. On Stanton from Missouri to Wyoming, PDNT was directed to remove the deck of the junction structure and wall to a depth to allow for a new precast flat top to be set to final grade.

Additional time and cost may be requested once the full schedule impact is realized. Engineer has reviewed that pricing for this change order is fair and reasonable.

5. New or revised plan sheet(s) are attached and numbered: N/A

Each signatory hereby warrants that each has the authority to execute this Change Order

<p>By signing this change order, the contractor agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change. Further, the contractor agrees that this agreement is made in accordance with Article 3.4 of the Contract General Conditions. Exceptions should be noted in the response for #4 and #5 above.</p> <p>Granite Construction Date <u>11/3/17</u></p> <p>By  _____</p> <p>Typed/Printed Name <u>Stanton Duke</u></p> <p>Project Manager _____</p>	<p>The following information must be provided</p> <p>Time Ext. #: <u>N/A</u> Days added on this C.O.: <u>N/A</u></p> <p>Amt. added by this change order: <u>\$ 101,168.08</u></p> <hr/> <p>For CRRMA use only:</p> <p>Days participating: _____</p> <p>Amount participating: _____</p> <p>Signature _____ Date _____</p> <p><u>Raymond Telles, Executive Director</u></p> <p>Name/Title</p>
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RECOMMENDED FOR EXECUTION:

Keith D. Barlow 11-1-17
Name/Title Date
APPROVAL REQUEST APPROVAL

Name/Title Date
APPROVAL REQUEST APPROVAL

Name/Title Date
APPROVAL REQUEST APPROVAL

Name/Title Date
APPROVAL REQUEST APPROVAL

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Name/Title Date
APPROVAL REQUEST APPROVAL

Name/Title Date
APPROVAL REQUEST APPROVAL

Engineer's Seal:

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 0025.00

Estimated Cost: SEE
ATTACHED

Paid by _____ Paid by Invoice? (Yes No)

TABLE A: Force Account Work and Materials Placed into Stock

LABOR	HOURLY RATE	EQUIPMENT	HOURLY RATE
SEE ATTACHED			

TABLE B: Contract Terms

				ORIGINAL + PREVIOUSLY REVISED		NEW		
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
	SEE ATTACHED							

TABLE B: Contract Terms (Continued)

				ORIGINAL + PREVIOUSLY REVISED		NEW		
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
	SEE ATTACHED							

August 14, 2017

Camino Real Regional Mobility Authority
300 N. Campbell, 2nd Floor
El Paso, TX 79901



Attn: Gilbert Gardner PE, ASQ CMQ/OE
Construction Manager

RE: El Paso Streetcar Infrastructure Project

Subject: Change Proposal 058 – Storm Drain Modification Base Bid 1

Paso Del Norte Trackworks (PDNT) is submitting the following change proposal for the storm drain system modifications made throughout the project. Throughout the course of construction there were several modifications to the storm drain system. All storm drain modifications to CBD IV plans have been accounted for under other change proposals. This change proposal accounts for all modifications made throughout the project.

- **(Item 10)** Plan sheets 270-272 called out to adjust three storm drain manholes on Oregon at stations 290+60, 292+80 and 295+75. The details make it appear as though a cone should have been able to be rotated to make the modifications. In bid minimal time was considered to make these modifications due to the information available in the plans at the time of bid. The work that was actually required to move the ring and cover out of conflict with the rail was substantially more than what would be considered an adjustment. This item covers the cost to relocate the manhole opening outside of the rail. Below is a list of the work performed at each location:
 - Station 290+60 – Installed new flat top (cast onsite) on top of existing box culvert, remove existing deck at new manhole location, install adjustment rings and reuse ring and cover
 - Station 292+80 – Installed new flat top (cast onsite) on top of existing box culvert, remove existing deck at new manhole location, install adjustment rings and reuse ring and cover
 - Station 295+75 – Cut manhole opening in the existing box culvert to allow for the new opening outside of track slab, patch deck at the old opening, install adjustment rings and install new ring and cover
- **(Item 15)** on the South West corner of Kansas and Franklin (Sta. 52+50) there is an existing storm drain inlet that needed to be adjusted to accommodate the new track grades. This item includes the cost to remove the existing inlet and grate and raise it to grade.
- **(Item 25)** While drilling the OCS foundation in the DTC at Station 11+18 an unmarked and unknown Storm Drain was discovered approximately 8ft below grade. The OCS pole was relocated and compensated under the base bid 1 items. This item covers the cost to repair the damaged storm drain.
- Stanton and Baltimore
 - **(Item 20)** The existing storm drain manhole and level 3 manhole were in conflict with the track at station 277+00. In order to accommodate the track at this location PDNT was directed to install a new storm drain manhole 5ft south of the existing manhole. This in conjunction with rebuilding the level 3 manhole (cost covered under CP 56) allowed enough room for the track.
 - **(Item 50)** During the roadway excavation operation along Baltimore between Stanton and Mesa the existing 8in CMP was discovered to have been completely rotted away (Sta 277+00 to 279+00). PDNT was directed to replace the 8in CMP with 18in RCP from the junction structure at Stanton and Baltimore to the junction structure at Baltimore and Mesa.



- Baltimore and Mesa
 - The existing storm drain grated inlet at station 279+00 is 0.5 ft below the track design elevations. In addition to the design elevation conflict there is a low spot approximately 50ft south of the intersection which causes ponding after a rain event. In order to fix the existing drainage issue and not further compound the issue with the new design PDNT was directed to:
 - **(Item 30)** Raise the existing grated inlet to match track elevations. The existing frame and grates will be salvaged and reused.
 - **(Item 40)** Install a new precast grated inlet at the low spot approximately 50ft south of the intersection and run 18" RCP to the existing grated inlet.
- Stanton (Missouri to Wyoming)
 - **(Item 60)** The two existing storm drain junction structures are located within two feet of the track slab and are 3in and 6in above final track elevations. PDNT has been directed to remove the deck of the junction structure and wall to a depth to allow for a new precast flat top to be set to final grade.

The additional installed material cost for the above mentioned scope is:

Item No	Description	Quantity	UM	Unit Price	Total
10	Oregon Storm Drain Modifications	1	LS	\$ 17,145.31	\$ 17,145.31
15	Kansas and Franklin Curb Inlet Modifications	1	LS	\$ 2,281.79	\$ 2,281.79
20	Remove and Replace Existing Storm Drain Manhole at Stanton and Baltimore	1	LS	\$ 12,700.66	\$ 12,700.66
25	Repair Unknown SD at OCS Foundation in DTC	1	LS	\$ 6,067.05	\$ 6,067.05
30	Adjust Storm Drain Grated Inley Baltimore/Mesa	1	LS	\$ 4,985.92	\$ 4,985.92
40	Install SD Grated Inlet Mesa	1	LS	\$ 20,956.12	\$ 20,956.12
50	Remove 8in CMP and Replace with 18in RCP Baltimore	1	LS	\$ 26,574.58	\$ 26,574.58
60	Remove Existing SD Junction Structure Deck and Replace with Precast Flat Top	1	LS	\$ 10,456.65	\$ 10,456.65
					\$ 101,168.08

Clarifications:

- The above scope of work may impact the baseline project schedule. By accepting this quote, the Camino Real Regional Mobility Authority acknowledges that there could be an impact and agrees that a contract time extension and/or additional overhead may need to be negotiated at a later date.
- Price includes Bonds, Builders Risk, and Franchise Tax.

If you have any questions regarding this submittal please feel free contact me at (520) 260-7779

Sincerely,

Anthony Alfonso
 Project Manager
 Paso Del Norte Trackworks



CHANGE PROPOSAL COST SUMMARY SHEET
 Camino Real Regional Mobility Authority
 El Paso Streetcar Infrastructure Project
 CHANGE PROPOSAL NO. 58
 Storm Drain Modifications
 August 14, 2017

Item	Rate	Amount	Total Amount
A. Direct Costs (1+2+3+4)			\$ 72,148.86
1) Labor Cost		\$ 29,109.71	
2) Subcontractor Cost		\$ -	
3) Equipment		\$ 15,554.75	
4) Cost of Materials and Supplies		\$ 27,484.40	
B. Indirect Cost (a+b)			\$ 14,704.08
a) General Conditions		\$ 14,633.26	
b) Builder's Risk Insurance		70.82	
C. Overhead and Profit (Self Performed) (A-SUB) x Rate	15.00%		\$ 13,027.94
D. Overhead and Profit (Subcontractor) (SUB) x Rate	5.00%		\$ -
E. Taxes (C+D) x Rate (Franchise Tax)	0.950%		\$ 123.77
Bonds (Reimbursable w/ 15% Markup) (A+B+C+D+E) x Rate	1.150%		\$ 1,163.43
COST OF WORK (A+B+C+D+Bonds)			\$ 101,168.08

Prepared By:

Signature

Anthony Alfonso
Printed Name

Project Manager
Title

August 14, 2017



909 Texas Street
El Paso, TX 79901

CHANGE PROPOSAL DIRECT COST SUMMARY SHEET
Camino Real Regional Mobility Authority
El Paso Streetcar Infrastructure Project
CHANGE PROPOSAL NO. 58
Storm Drain Modifications
August 14, 2017

Item #	Description	Quantity	Units	Unit Price	Labor	Material	Equipment	Subcontract	Amount
10	Oregon Storm Drain Modifications	1	LS	\$ 12,227.32	\$ 7,781.92	\$ 762.78	\$ 3,682.62	\$ -	\$ 12,227.32
15	Kansas and Franklin Curb Inlet Modifications	1	LS	\$ 1,627.28	\$ 1,380.45	\$ 160.33	\$ 86.50	\$ -	\$ 1,627.28
20	Remove and Replace Existing Storm Drain Manhole Stanton and Baltimore	1	LS	\$ 9,057.58	\$ 4,232.13	\$ 2,275.00	\$ 2,550.45	\$ -	\$ 9,057.58
25	Repair Unknown SD at OCS Foundation in the DTC	1	LS	\$ 4,326.77	\$ 2,393.15	\$ 397.50	\$ 1,536.12	\$ -	\$ 4,326.77
30	Adjust Storm Drain Grated Inlet Baltimore/Mesa	1	LS	\$ 3,555.75	\$ 2,427.67	\$ 324.68	\$ 803.40	\$ -	\$ 3,555.75
40	Install Grated Inlet Mesa	1	LS	\$ 14,945.03	\$ 4,786.40	\$ 7,086.38	\$ 3,072.25	\$ -	\$ 14,945.03
50	Remove 8in CMP and Replace with 18in RCP Baltimore	1	LS	\$ 18,951.88	\$ 4,786.39	\$ 11,093.25	\$ 3,072.24	\$ -	\$ 18,951.88
60	Remove and Replace Existing Storm Drain Junction Structure Deck and Replace with Precast Flat Top	1	LS	\$ 7,457.25	\$ 1,321.60	\$ 5,384.48	\$ 751.17	\$ -	\$ 7,457.25
	TOTALS				\$ 29,109.71	\$ 27,484.40	\$ 15,554.75	\$ -	\$ 72,148.86

Cost Report

Granite Construction, Inc.

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Anthony Alfonso

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576965-058

Storm Drain Modifications

08/14/2017 3:56 PM

Biditem

OREGON STROM DRAIN CHANGES

10

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	4,588.12	3,193.80	7,781.92	3,682.62	762.78	0.00	0.00	0.00	0.00	0.00	12,227.32
Total	4,588.12	3,193.80	7,781.92	3,682.62	762.78	0.00	0.00	0.00	0.00	0.00	12,227.32

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	198.0000	0.0051	198.0000	61.7541	23.1723	39.3026	0.0208

Activity: 374010 Casting Materials Quantity: 3 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	254.26	0.00	0.00	0.00	0.00	0.00	254.26
Total	0.00	0.00	0.00	0.00	762.78	0.00	0.00	0.00	0.00	0.00	762.78

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Cast 3 flat tops = 2CY/ea = 6cy
 Cast in place new opening box = 1.5 cy
 Pour with Track concrete (4400#)

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2CN35	Conc 4500	1.00	7.50	CY	78.66	100.00	78.66	589.98
2CR01.04	Rebar #4 (40' Sticks) 2016	1.00	576.00	LF	0.30	100.00	0.30	172.80

Activity: 379475 Cast Flat Top Quantity: 3 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	1,529.37	1,064.60	2,593.97	1,227.54	0.00	0.00	0.00	0.00	0.00	0.00	3,821.51
Total	4,588.12	3,193.80	7,781.92	3,682.62	0.00	0.00	0.00	0.00	0.00	0.00	11,464.54

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,821.5133	16.0000	0.0625	238.8446	6.0000	0.5000	2.0000	1,910.7567

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	198.0000	0.0152	66.0000	39.3026	1,529.3733

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ6306 Sewer Construction

Crew: CF040 Carp4+3 Prod: S 6 Eff: 100.00 Crew Hrs: 48.00 Labor Pcs: 4.00 Equipment Pcs: 2.00

Notes: Plans call out to adjust manhole in track
 no adjustment possible
 Cast Flattops for the top of the box culvert to move opening to center of track.
 3 flat tops cast (7/19/16, 7/20/16, 7/21/16)
 in one location the flat top was too tall - have to adjust the opening in the box culvert. Form/Pour/Strip in place new opening. (8/2/16, 8/3/16, 8/4/16)

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
80403CARP4	Carp 4 Pickup 350	1.00	54.00	HR	19.50	100.00	19.50	1,052.84
80803FORK5	Forklift, 5.5 - 10 ton	1.00	48.00	HR	54.79	100.00	54.79	2,629.78
C0	4-MAN - CARPENTER	1.00	54.00	MH	25.53	105.56	45.02	2,431.27
C1	CARP - CARPENTER	2.00	96.00	MH	24.03	100.00	41.37	3,971.07
L3FORM	LAB - FORMSETTER	1.00	48.00	MH	15.37	100.00	28.74	1,379.58

Biditem

SD INLET MODIFICATIONS KANSAS AND FRANKLIN

15

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
6,782.5800	20.0000	0.0500	339.1290	2.0000	0.5000	2.0000	3,391.2900

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
107.0000	0.0093	107.0000	39.5526	2,590.2200

Calendar: 501 5 DPW-10 HPS-1 SPD Hrs/Shift: 10 WC: AZ6319 Water Mains / Gas Mains

Crew: PP062 PP-Trench Excavation 330 Prod: HU 20 Eff: 100.00 Crew Hrs: 20.00 Labor Pcs: 5.25 Equipment Pcs: 3.25

Notes: *Figure - 1.5 days to excavate around existing box, demo and grade for new precast junction box
 *Figure - 0.5 day to install junction box and backfill around level 3 manhole and new storm drain box

Work was completed on 2/21/17 & 2/22/17

total 2 shifts (10 hr)

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
80403PIPE4	Pipe 4 Pickup F450	1.00	22.00	HR	19.50	100.00	19.50	428.93
80406WATER4	Water Truck, 2 - 4 mgal	0.25	5.00	HR	30.60	100.00	30.60	153.02
80802CAT950	Loader, CAT 950 (3.75 - 4.0	1.00	20.00	HR	46.78	100.00	46.78	935.62
830CAT312	Excavator, CAT 312 1.0 cy	1.00	20.00	HR	51.64	100.00	51.64	1,032.88
L1LABLEAD	LAB - LABORER LEADMAN	1.00	20.00	MH	20.59	110.00	38.14	762.78
L1PIPE	LAB - PIPELAYER	1.00	20.00	MH	15.37	110.00	30.63	612.59
OOPIPE	4-MAN - PIPE	1.00	22.00	MH	27.67	113.64	49.56	1,090.37
O3CAT950	OP-CAT 950 LOADER (3.75 - 4.	1.00	20.00	MH	21.20	110.00	39.02	780.33
O6CAT312	OP-CAT 312 EXCAVATOR, 1.0 CY	1.00	20.00	MH	22.49	110.00	40.87	817.45
TWATER	TEAM - WATER TRUCK DRIVER	0.25	5.00	MH	17.52	110.00	33.72	168.61

Activity: 415023 Buy Precast Catch Basin Quantity: 1 Unit: EA

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3MANHOLE	SD Manhole	1.00	1.00	EA	2,275.00	100.00	2,275.00	2,275.00

Biditem REPAID UNMARKED SD AT OCS FOUNDATION DTC

25

Takeoff Qty: 1.000 LS
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	1,430.17	962.98	2,393.15	1,536.12	397.50	0.00	0.00	0.00	0.00	0.00	4,326.77
Total	1,430.17	962.98	2,393.15	1,536.12	397.50	0.00	0.00	0.00	0.00	0.00	4,326.77

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
64.5000	0.0155	64.5000	67.0817	22.1732	37.1031	0.0833

Activity: 392020 Buy CLSM 15% Waste Quantity: 7 Unit: CY

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Backfill to SG

5x5x8 = 7.4 CY

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2CN60	Conc CLSM 2014	1.00	7.50	CY	53.00	100.00	53.00	397.50

Activity: 392105 Repair SD at OCS Foundation Quantity: 5 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	286.03	192.60	478.63	307.22	0.00	0.00	0.00	0.00	0.00	0.00	785.85
Total	1,430.17	962.98	2,393.15	1,536.12	0.00	0.00	0.00	0.00	0.00	0.00	3,929.27

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
785.8540	2.4000	0.4167	327.4392	1.5000	3.3333	0.3000	2,619.5133

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
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64.5000	0.0775	12.9000	37.1031	286.0340
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Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ6319 Water Mains / Gas Mains

Crew: PP050 PP-DLB Pipe w/Excavator 312 Prod: UH 0.4167 Eff: 100.00 Crew Hrs: 12.00 Labor Pcs: 5.25 Equipment Pcs: 3.25

Notes: Figure 1.5 days to excavate/expose and reapiir SD at OCS foundation

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
80403PIPE4	Pipe 4 Pickup F450	1.00	13.50	HR	19.50	100.00	19.50	263.21
80406WATER4	Water Truck, 2 - 4 mgal	0.25	3.00	HR	30.60	100.00	30.60	91.81
80802CAT950	Loader, CAT 950 (3.75 - 4.0)	1.00	12.00	HR	46.78	100.00	46.78	561.37
830CAT312	Excavator, CAT 312 1.0 cy	1.00	12.00	HR	51.64	100.00	51.64	619.73
L1LABLEAD	LAB - LABORER LEADMAN	1.00	12.00	MH	20.59	100.00	35.61	427.31
L1PIPE	LAB - PIPELAYER	1.00	12.00	MH	15.37	100.00	28.74	344.89
OPIPE	4-MAN - PIPE	1.00	13.50	MH	27.67	105.56	46.81	632.00
O3CAT950	OP-CAT 950 LOADER (3.75 - 4.	1.00	12.00	MH	21.20	100.00	36.41	436.94
O6CAT312	OP-CAT 312 EXCAVATOR, 1.0 CY	1.00	12.00	MH	22.49	100.00	38.11	457.31
TWATER	TEAM - WATER TRUCK DRIVER	0.25	3.00	MH	17.52	100.00	31.57	94.70

Biditem

ADJUST STORM DRAIN GRATED INLET BALTIMOR/MESA

30

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	1,397.03	1,030.64	2,427.67	803.40	324.68	0.00	0.00	0.00	0.00	0.00	3,555.75
Total	1,397.03	1,030.64	2,427.67	803.40	324.68	0.00	0.00	0.00	0.00	0.00	3,555.75

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	73.5000	0.0136	73.5000	48.3776	19.0072	33.0295	0.0833

Activity: 374010 Raise Material ! Quantity: 1 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	324.68	0.00	0.00	0.00	0.00	0.00	324.68
Total	0.00	0.00	0.00	0.00	324.68	0.00	0.00	0.00	0.00	0.00	324.68

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2CN25	Conc 4000 2014	1.00	1.50	CY	80.45	100.00	80.45	120.68
2CN80	Short Load Fee 4-6 CY	1.00	1.00	LD	150.00	100.00	150.00	150.00
2CO.06.035	Dowel #4 Rebar x 24"	1.00	60.00	LF	0.90	100.00	0.90	54.00

Activity: 374070 Raise Grated Inlet Quantity: 1 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	1,397.03	1,030.64	2,427.67	803.40	0.00	0.00	0.00	0.00	0.00	0.00	3,231.07
Total	1,397.03	1,030.64	2,427.67	803.40	0.00	0.00	0.00	0.00	0.00	0.00	3,231.07

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,231.0700	12.0000	0.0833	269.2558	1.5000	0.6667	1.5000	2,154.0467

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	73.5000	0.0136	73.5000	33.0295	1,397.0300

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Crew: ZZZ Blank Crew Prod: UH 0.0833 Eff: 100.00 Crew Hrs: 12.00 Labor Pcs: 6.00 Equipment Pcs: 2.00

Notes: Figure - 1 shift to demo the top of the existing grated inlet.

*Frame and supports need to be salvage

*Raise 6in to match top of rail grades

Figure - 2 hr to pour/finish and 2 hr to strip and cleanup.

1.5 Shift total

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
806PICKHRMAS	Mason 4 Pickup 3/4 tn 100/Da	1.00	13.50	HR	10.81	100.00	10.81	145.96
80803FORK5	Forklift, 5.5 - 10 ton	1.00	12.00	HR	54.79	100.00	54.79	657.44
L3CONC	LAB - CONCRETE LABORER	1.00	12.00	MH	12.81	100.00	25.37	304.46
M0	4-MAN - MASON	1.00	12.00	MH	27.67	100.00	44.93	539.10
M1	MAS - CEMENT MASON	3.00	37.50	MH	18.30	102.00	33.05	1,239.22
O5FORK	OP-FORKLIFT OPER	1.00	12.00	MH	15.37	100.00	28.74	344.89

Notes: Install Grated Inlet at the low spot on Mesa approximately 30ft south of the intersection (center of driveway)
 Work associated with this includes -
 Installation of 52.5 LF of 18in RCP
 Installation of Prefabricated TxDOT box culter with Grates

Biditem **INSTALL GRATED INLET MESA**

40

Takeoff Qty: 1.000 LS
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	2,860.33	1,926.07	4,786.40	3,072.25	2,926.00	3,935.38	0.00	0.00	225.00	0.00	14,945.03
Total	2,860.33	1,926.07	4,786.40	3,072.25	2,926.00	3,935.38	0.00	0.00	225.00	0.00	14,945.03

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	129.0000	0.0078	129.0000	115.8529	22.1731	37.1039	0.0417

Activity: 381030 Excavate For Structures Quantity: 1 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	953.44	642.02	1,595.46	1,024.08	0.00	0.00	0.00	0.00	0.00	0.00	2,619.54
Total	953.44	642.02	1,595.46	1,024.08	0.00	0.00	0.00	0.00	0.00	0.00	2,619.54

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	2,619.5400	8.0000	0.1250	327.4425	1.0000	1.0000	1.0000	2,619.5400

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	43.0000	0.0233	43.0000	37.1037	953.4400

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ6319 Water Mains / Gas Mains
 Crew: PP062 PP-Trench Excavation 330 Prod: HU 8 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.25 Equipment Pcs: 3.25

Notes: *Figure
 -4 hours to excavate for grated inlet
 -1 hour to set the box
 -3 hours to backfill
 Figure total 1 shift

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
80403PIPE4	Pipe 4 Pickup F450	1.00	9.00	HR	19.50	100.00	19.50	175.47
80406WATER4	Water Truck, 2 - 4 mgal	0.25	2.00	HR	30.60	100.00	30.61	61.21
80802CAT950	Loader, CAT 950 (3.75 - 4.0	1.00	8.00	HR	46.78	100.00	46.78	374.25
830CAT312	Excavator, CAT 312 1.0 cy	1.00	8.00	HR	51.64	100.00	51.64	413.15
L1LABLEAD	LAB - LABORER LEADMAN	1.00	8.00	MH	20.59	100.00	35.61	284.88
L1PIPE	LAB - PIPELAYER	1.00	8.00	MH	15.37	100.00	28.74	229.93
O0PIPE	4-MAN - PIPE	1.00	9.00	MH	27.67	105.56	46.82	421.34
O3CAT950	OP-CAT 950 LOADER (3.75 - 4.	1.00	8.00	MH	21.20	100.00	36.41	291.30
O6CAT312	OP-CAT 312 EXCAVATOR, 1.0 CY	1.00	8.00	MH	22.49	100.00	38.11	304.87
TWATER	TEAM - WATER TRUCK DRIVER	0.25	2.00	MH	17.52	100.00	31.57	63.14

Activity: 392005 Buy Bedding Quantity: 1 Unit: TN

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2AG10.12	Storm Drain Bedding 2014	1.00	20.00	TN	8.50	100.00	8.50	170.00

Activity:	392015	Haul Spoils	Quantity:	24.5	Unit:	CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	6.63	0.00	0.00	9.18	0.00	15.81
Total	0.00	0.00	0.00	0.00	0.00	162.38	0.00	0.00	225.00	0.00	387.38

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Will haul off all spoils - 4 x 3 x 55 = 24.5CY figure 3 lds @ 1.57hr/ld

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3RM05	Dump Fee - Soil, Dry	1.00	3.00	LD	50.00	108.25	54.13	162.38
5RTRASH	Trash Truck 2014	1.00	4.50	HR	50.00	100.00	50.00	225.00

Activity:	392020	Buy CLSM 15% Waste	Quantity:	1	Unit:	CY
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Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Backfill to top of pipe with slurry

Figure 25CY slurry

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2CN60	Conc CLSM 2014	1.00	25.00	CY	53.00	100.00	53.00	1,325.00

Activity:	392025	Buy RCP	Quantity:	67.5	Unit:	LF
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Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Purchased 9 sticks @ 7.5ftee = 67.5

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2PD10	RCP	1.00	67.50	LF	21.20	100.00	21.20	1,431.00

Activity:	392105	DLB RCP Mainline 12"-30" !	Quantity:	55	Unit:	LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	34.67	23.35	58.02	37.24	0.00	0.00	0.00	0.00	0.00	0.00	95.26
Total	1,906.89	1,284.05	3,190.94	2,048.17	0.00	0.00	0.00	0.00	0.00	0.00	5,239.11

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
95.2565	0.2909	3.4375	327.4444	2.0000	27.5000	0.0364	2,619.5550

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
86.0000	0.6395	1.5636	37.1040	34.6707

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ6319 Water Mains / Gas Mains

Crew: PP050 PP-DLB Pipe w/Excavator 312 Prod: UH 3.4375 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 5.25 Equipment Pcs: 3.25

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
80403PIPE4	Pipe 4 Pickup F450	1.00	18.00	HR	19.50	100.00	19.50	350.95
80406WATER4	Water Truck, 2 - 4 mgal	0.25	4.00	HR	30.60	100.00	30.61	122.42
80802CAT950	Loader, CAT 950 (3.75 - 4.0)	1.00	16.00	HR	46.78	100.00	46.78	748.50
830CAT312	Excavator, CAT 312 1.0 cy	1.00	16.00	HR	51.64	100.00	51.64	826.30
L1LABLEAD	LAB - LABORER LEADMAN	1.00	16.00	MH	20.59	100.00	35.61	569.76
L1PIPE	LAB - PIPELAYER	1.00	16.00	MH	15.37	100.00	28.74	459.86
OPIPE	4-MAN - PIPE	1.00	18.00	MH	27.67	105.56	46.82	842.68
O3CAT950	OP-CAT 950 LOADER (3.75 - 4.	1.00	16.00	MH	21.20	100.00	36.41	582.60
O6CAT312	OP-CAT 312 EXCAVATOR, 1.0 CY	1.00	16.00	MH	22.49	100.00	38.11	609.76
TWATER	TEAM - WATER TRUCK DRIVER	0.25	4.00	MH	17.52	100.00	31.57	126.28

Activity:	415023	Buy Precast Catch Basin	Quantity:	1	Unit:	EA
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Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3GRATEINLET	Grated Inlet	1.00	1.00	EA	3,773.00	100.00	3,773.00	3,773.00

Biditem

REMOVE 8IN CMP AND REPLACE WITH 18IN RCP BALTIMORE

50

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	2,860.34	1,926.05	4,786.39	3,072.24	9,752.00	541.25	0.00	0.00	800.00	0.00	18,951.88
Total	2,860.34	1,926.05	4,786.39	3,072.24	9,752.00	541.25	0.00	0.00	800.00	0.00	18,951.88

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	129.0000	0.0078	129.0000	146.9138	22.1732	37.1038	0.0417

Activity: 392015 Haul Spoils Quantity: 90 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	6.01	0.00	0.00	8.89	0.00	14.90
Total	0.00	0.00	0.00	0.00	0.00	541.25	0.00	0.00	800.00	0.00	1,341.25

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Will haul off all spoils - 4 x 3 x 203 = 90CY figure 10 lds @ 1.57hr/ld

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3RM05	Dump Fee - Soil, Dry	1.00	10.00	LD	50.00	108.25	54.13	541.25
5RTRASH	Trash Truck 2014	1.00	16.00	HR	50.00	100.00	50.00	800.00

Activity: 392020 Buy CLSM 15% Waste Quantity: 100 Unit: CY

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Backfill to SG
 203 LF x 8.86 SF / 27 = 66.05 CY
 Figure 66CY

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2CN60	Conc CLSM 2014	1.00	100.00	CY	53.00	100.00	53.00	5,300.00

Activity: 392025 Buy RCP Quantity: 203 Unit: LF

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: 28 Sticks @ 7.5LF = 210LF

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2PD10	RCP	1.00	210.00	LF	21.20	100.00	21.20	4,452.00

Activity: 392105 DLB RCP Mainline 12"-30" ! Quantity: 203 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	14.09	9.49	23.58	15.13	0.00	0.00	0.00	0.00	0.00	0.00	38.71
Total	2,860.34	1,926.05	4,786.39	3,072.24	0.00	0.00	0.00	0.00	0.00	0.00	7,858.63

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
38.7125	0.1182	8.4583	327.4429	3.0000	67.6667	0.0148	2,619.5433

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
129.0000	1.5736	0.6355	37.1038	14.0903

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ6319 Water Mains / Gas Mains

Crew: PP050 PP-DLB Pipe w/Excavator 312 Prod: UH 8.4583 Eff: 100.00 Crew Hrs: 24.00 Labor Pcs: 5.25 Equipment Pcs: 3.25

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
80403PIPE4	Pipe 4 Pickup F450	1.00	27.00	HR	19.50	100.00	19.50	526.42
80406WATER4	Water Truck, 2 - 4 mgal	0.25	6.00	HR	30.60	100.00	30.60	183.62
80802CAT950	Loader, CAT 950 (3.75 - 4.0)	1.00	24.00	HR	46.78	100.00	46.78	1,122.74
830CAT312	Excavator, CAT 312 1.0 cy	1.00	24.00	HR	51.64	100.00	51.64	1,239.46

L1LABLEAD	LAB - LABORER LEADMAN	1.00	24.00	MH	20.59	100.00	35.61	854.63
L1PIPE	LAB - PIPELAYER	1.00	24.00	MH	15.37	100.00	28.74	689.79
OOPIPE	4-MAN - PIPE	1.00	27.00	MH	27.67	105.56	46.82	1,264.03
O3CAT950	OP-CAT 950 LOADER (3.75 - 4.	1.00	24.00	MH	21.20	100.00	36.41	873.89
O6CAT312	OP-CAT 312 EXCAVATOR, 1.0 CY	1.00	24.00	MH	22.49	100.00	38.11	914.63
TWATER	TEAM - WATER TRUCK DRIVER	0.25	6.00	MH	17.52	100.00	31.57	189.42

Biditem

REMOVE AND INSTALL NEW FLAT TOP STANTON AND MISS.

60

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	754.42	567.18	1,321.60	751.17	0.00	5,228.48	0.00	0.00	156.00	0.00	7,457.25
Total	754.42	567.18	1,321.60	751.17	0.00	5,228.48	0.00	0.00	156.00	0.00	7,457.25

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	41.0000	0.0244	41.0000	181.8841	18.4005	32.2341	0.1250

Activity: 252058 Remove SD JCT STR Deck Quantity: 2 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	377.21	283.59	660.80	375.59	0.00	0.00	0.00	0.00	0.00	0.00	1,036.39
Total	754.42	567.18	1,321.60	751.17	0.00	0.00	0.00	0.00	0.00	0.00	2,072.77

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	1,036.3850	4.0000	0.2500	259.0963	1.0000	2.0000	0.5000	2,072.7700

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	41.0000	0.0488	20.5000	32.2341	377.2100

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Crew: DE040 Demo-710/1500# Pecker Prod: S 1 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Notes: Figure 1 day to remove the existing storm drain junction structure deck and prep for new precast flattop.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
806PICKHROPE	Oper 4 Pickup, 3/4 100/Day	1.00	9.00	HR	10.81	100.00	10.81	97.31
80801PECKER	Rental Backhoe w/hoeram	1.00	8.00	HR	81.73	100.00	81.73	653.86
L1LAB	LAB - GENERAL LABORER	3.00	24.00	MH	12.81	100.00	25.37	608.96
OO	4-MAN - OPERATOR	1.00	9.00	MH	27.67	105.56	46.82	421.34
O6BCKHOE	OP-BACKHOE/LOADER	1.00	8.00	MH	21.20	100.00	36.41	291.30

Activity: 252061 Haul Off Demo Quantity: 1 Unit: LD

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5RTRASH	Trash Truck 2014	1.00	2.00	HR	78.00	100.00	78.00	156.00

Activity: 252064 Dump Fees Quantity: 1 Unit: LD

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3RM02	Dump Fee - Concrete	1.00	1.00	LD	50.00	108.25	54.13	54.13

Activity: 415023 Buy Precast Catch Basin Quantity: 2 Unit: EA

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3MANHOLE	SD Manhole	1.00	2.00	EA	2,390.00	108.25	2,587.18	5,174.35

Report Summary

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
Total	17,341	11,769	29,110	15,555	14,323	11,980	0	0	1,181	0	72,149

Job Notes

Cost Report

Granite Construction, Inc.

12

Anthony Alfonso

Page 1 of 3

576965-058

Storm Drain Modifications

08/14/2017 3:57 PM

Biditem

BASE BID GENERAL ACCOUNT

910000

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	11,181.19	405.37	11,586.56	0.00	1,937.50	629.20	480.00	0.00	0.00	0.00	14,633.26
Total	11,181.19	405.37	11,586.56	0.00	1,937.50	629.20	480.00	0.00	0.00	0.00	14,633.26

Biditem

ADMINISTRATIVE SALARIES

910101

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	629.20	0.00	0.00	0.00	0.00	629.20
Total	0.00	0.00	0.00	0.00	0.00	629.20	0.00	0.00	0.00	0.00	629.20

Activity: 170308 T&D Allocation Quantity: 775 Unit: MH

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.81
Total	0.00	0.00	0.00	0.00	0.00	629.20	0.00	0.00	0.00	0.00	629.20

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZZERO WC Set to Zero Indirect Calc

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3*THEDI	Craft EDI	2015	1.00	775.00	MH	0.75	108.25	629.20
3AA3401	Salary EDI	2015	1.00	0.00	MO	126.00	108.25	0.00

Biditem

FIELD OPERATIONS & WAGES

910110

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	480.00	0.00	0.00	0.00	480.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	480.00	0.00	0.00	0.00	480.00

Activity: 110100 Quality Control Personnel Quantity: 1 Unit: MO

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	480.00	0.00	0.00	0.00	480.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	480.00	0.00	0.00	0.00	480.00

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Additional testing for Grade Beam.

- 1 set of cylinder per pour
- Casting Flat Tops
- Casting New Opening
- Franklin/Kansas Curb Inlet (Poured with PCCP no additional testing)
- Box Extension Mesa/Kansas

3 sets of 4 cylinders
2 hr per set = 6hr

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3MISC.CORE	Core Barrel Allowance	1.00	0.00	DY	60.00	108.25	0.00	0.00
4685.005	QC Tech ST W/ Pickup	1.00	6.00	HR	40.00	100.00	40.00	240.00
4685.010	QC Tech OT W/ Pickup	1.00	0.00	HR	65.00	100.00	0.00	0.00
4685.015	QC Tech Trip Charges	1.00	0.00	EA	20.00	100.00	0.00	0.00

4685.020	QC Tech Per Diem	1.00	0.00	DY	70.00	100.00	0.00	0.00
4685.025	QC Proctor Standard	1.00	0.00	EA	135.00	100.00	0.00	0.00
4685.030	QC Concrete Compression Test	1.00	12.00	EA	20.00	100.00	20.00	240.00
4685.035	QC PI/Gradation	1.00	0.00	EA	130.00	100.00	0.00	0.00
4685.065	QC Weekly Reports	1.00	0.00	WK	0.00	100.00	0.00	0.00

Biditem

910170

GENERAL PROJECT EXPENSES

Takeoff Qty: 1.000 LS
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	6,440.05	0.00	6,440.05	0.00	1,937.50	0.00	0.00	0.00	0.00	0.00	8,377.55
Total	6,440.05	0.00	6,440.05	0.00	1,937.50	0.00	0.00	0.00	0.00	0.00	8,377.55

Activity: 120203 Hourly Subsistence Quantity: 775 Unit: HR

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZZERO WC Set to Zero Indirect Calc

Notes: Hourly Subsistence = \$7.50/MH

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z*TH	Total Labor Hours	1.00	775.00	LBHR	7.50	100.00	7.65	5,926.43

Activity: 170100 Small Tools Quantity: 775 Unit: MH

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZZERO WC Set to Zero Indirect Calc

Notes: \$2.5/MH

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z*TH	Total Labor Hours	1.00	775.00	LBHR	2.50	100.00	2.50	1,937.50

Activity: 170399 Holiday Pay Quantity: 775 Unit: MH

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZZERO WC Set to Zero Indirect Calc

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z*TH	Total Labor Hours	1.00	775.00	LBHR	0.65	100.00	0.66	513.62

Biditem

910175

LICENSES/FEES/BONDS

Takeoff Qty: 1.000 LS
 Bid Qty: 1.000 LS

Activity: 175300 Contract Bond Quantity: 85 Unit: M\$

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Cost calculated on cover sheet

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2BOND	Granite Bon 4.71/1000 + Marg	1.00	0.00	M\$	5.23	100.00	0.00	0.00

Biditem

910190

CLEARING/OFFSET ACCOUNTS

Takeoff Qty: 1.000 LS
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	4,741.14	405.37	5,146.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,146.51
Total	4,741.14	405.37	5,146.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,146.51

Activity: 175210 Builders Risk Premium Quantity: 85 Unit: M\$

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Cost calculated on the cover sheet.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
ZZ	ALLOWANCES	1.00	0.00	LS	0.00	100.00	0.00	0.00

Activity: 190995 Area/Region Supervision Quantity: 775 Unit: MH

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ8742 Salesmen

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z*TH	Total Labor Hours	1.00	775.00	LBHR	6.00	100.00	6.64	5,146.51

Report Summary

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
Total	11,181	405	11,587	0	1,938	629	480	0	0	0	14,633

Job Notes