

**CITY OF EL PASO, TEXAS
AGENDA ITEM
DEPARTMENT HEAD'S SUMMARY FORM**

DEPARTMENT: Engineering and Construction Management

AGENDA DATE: October 8, 2013

CONTACT PERSON NAME AND PHONE NUMBER: Irene D. Ramirez, P.E., Interim City Engineer, 541-4428

DISTRICT(S) AFFECTED: 3

SUBJECT:

That the City Council approves the expenditure of additional available funding in the amount of Three Hundred Sixty Seven Thousand Seven Hundred Eighty Eight and 00/100 Dollars (\$367,788.00) to Urban Associates, Inc. for additional construction costs for the Sun Metro Operations and Maintenance Facility, Solicitation No 2012-074. The change order provides for the addition of foundations, electrical and water lines to the eastern portion of the parking lot to provide for future expansion of the Sun Metro fleet. An additional time of 95 days is added to contract time. The new contract sum, including this change order is Twenty Eight Million Six Hundred Fifty Five Thousand Three Hundred Seventy and 60/100 (\$28,655,376.60).

BACKGROUND / DISCUSSION:

The eastern portion of the parking lot at the Sun Metro Operations and Maintenance Facility will be utilized for the future bus fleet parking. In order to protect the buses from the elements, canopies will have to be installed. If the foundations for the canopies are installed in future years after the concrete for the parking lot is poured, new concrete will have to be removed in order to install the foundations and add electrical power and water to each foundation. This will disrupt the flow of traffic for a significant amount of time, causing delays to the service of the buses. The cost will also be significantly higher due to the amount of work required to remove the concrete.

PRIOR COUNCIL ACTION:

City Council awarded contract number 2012-074 on February 14, 2012.

AMOUNT AND SOURCE OF FUNDING:

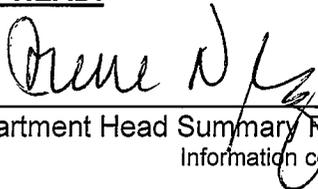
Total estimated amount \$367,788.00 – Sun Metro Capital Grants

BOARD / COMMISSION ACTION:

N/A

*****REQUIRED AUTHORIZATION*****

DEPARTMENT HEAD:



(If Department Head Summary Form is initiated by Purchasing, client department should sign also)
Information copy to appropriate Deputy City Manager

RESOLUTION

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF EL PASO:

That the City Council approves the expenditure of additional available funding in the amount of Three Hundred Sixty Seven Thousand Seven Hundred Eighty Eight and 00/100 Dollars (\$367,788.00) to Urban Associates, Inc. for additional construction costs for the Sun Metro Operations and Maintenance Facility, Solicitation No 2012-074. The change order provides for the addition of foundations, electrical and water lines to the eastern portion of the parking lot to provide for future expansion of the Sun Metro fleet. An additional time of 95 days is added to contract time. The new contract sum, including this change order is Twenty Eight Million Six Hundred Fifty Five Thousand Three Hundred Seventy and 60/100 (\$28,655,376.60).

ADOPTED THIS _____ DAY OF _____ 2013.

CITY OF EL PASO:

Oscar Leeser,
Mayor

ATTEST:

Richarda Duffy Momsen,
City Clerk

APPROVED AS TO FORM:



Cynthia Osborn
Assistant City Attorney

APPROVED AS TO CONTENT

Irene D. Ramirez, P.E.
Interim City Engineer

CITY OF EL PASO CONSTRUCTION CHANGE ORDER

CONSTRUCTION CHANGE ORDER NO.: 16 DATE: August 6, 2013 SCOPE CHANGE
 CONSTRUCTION CHANGE

PROJECT: Sun Metro Operations & Maintenance Facility SOLICITATION NO. 2012-074

Original Contract Amount: \$ <u>27,435,000.00</u>	Contract Time to Substantial Completion <u>412</u>
Net Change by previous Change Orders: \$ <u>852,588.60</u>	Total days added due to Change Orders and CQN's <u>63</u>
Net Change by previous Construction Quantity Notices: \$ <u>-</u>	Total days added for this Change Order <u>95</u>
Amount of this Construction Change Order: \$ <u>367,788.00</u>	New Contract Time to Substantial Completion: <u>570</u>
New Amended Contract Amount: <u>\$28,655,376.60</u>	Current Substantial Completion Due Date <u>12/26/2013</u>
Change Order Percentage: <u>4.45%</u>	

CONTRACTOR NAME: Urban Associates Inc. 2010 Transportation CO's

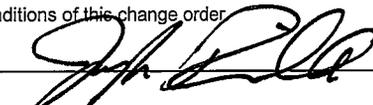
Please provide a detailed scope of work of the change order (see back for reason/justification):

Original drawings did not call for bus metal canopies on the eastern portion of the parking lot, this portion is to be used for future expansion of the Sun Metro fleet. When the bus fleet increases in order to add the canopies, foundations, electrical and water lines the entire eastern parking lot will have to be shut down, this will greatly disrupt the operations due to the amount of construction necessary. It was requested by Sun Metro to install the foundations, electrical and water lines at this time in order to avoid interruptions to the service. In addition cost for construct now will be less than in the future. (User Request)

CONSECUTIVE CALENDAR DAYS ADDED TO COMPLETION TIME: 95 TOTAL CHANGE ORDER AMOUNT: \$ 367,788.00

CONTRACTOR

I, Joseph Riccillo, of Urban Associates agree and accept the terms and conditions of this change order.

Signature:  Date: 8/6/13

CITY OF EL PASO (OWNER)

I, Irene D. Ramirez, P.E. of the City of El Paso hereby authorize and direct the Contractor to proceed with additional work as described in this form.

Signature: _____ Date: _____
 Irene D. Ramirez, P.E., Interim City Engineer

CITY OF EL PASO CONSTRUCTION CHANGE ORDER- Pg. 2

CONSTRUCTION CHANGE ORDER NO.: 16 DATE: August 6, 2013 SCOPE CHANGE
PROJECT: Sun Metro Operations & Maintenance Facility SOLICITATION NO. 2012-074 CONSTRUCTION CHANGE

Project Number	<u>PCP09MT0080</u>	Project Number	<u>PCP09MT0080</u>	PURCHASE ORDER #	<u>1300000278</u>
Class	<u>28300</u>	Class	<u>28330</u>		
Department	<u>190</u>	Department	<u>190</u>		
Fund	<u>4710</u>	Fund	<u>4530</u>		
Account	<u>5080270</u>	Account	<u>580270</u>		

CONTRACTOR NAME: Urban Associates Inc. 2010 Transportation CO's

PROVIDE REASON/JUSTIFICATION FOR CHANGE ORDER:

Original drawings did not call for bus metal canopies on the eastern portion of the parking lot, this portion is to be used for future expansion of the Sun Metro fleet. When the bus fleet increases in order to add the canopies, foundations, electrical and water lines the entire eastern parking lot will have to be shut down, this will greatly disrupt the operations due to the amount of construction necessary. It was requested by Sun Metro to install the foundations, electrical and water lines at this time in order to avoid interruptions to the service. In addition cost for construct now will be less than in the future. (User Request)

CONSECUTIVE CALENDAR DAYS ADDED TO COMPLETION TIME: 95 TOTAL CHANGE ORDER AMOUNT: \$ 367,788.00

Project Manager recommends approval: Julia Gomez 8/6/13

Engineering Division Manager recommends approval: Margaret Knoeder 8/14/13

Financing Department approval: _____
(If Required)

CITY OF EL PASO SCOPE CHANGE FORM

DATE: June 25, 2013
 TO: Sun Metro
 FROM: ECM
 THRU: Gilbert Guerrero

USER DEPARTMENT: Sun Metro

USER DEPARTMENT HEAD SIGNATURE: *[Signature]*
 CONSTRUCTION PHASE: DESIGN PHASE: 6/25/13

PROJECT: Sun Metro Maintenance Facility

Please provide a detailed description of the change in scope of work you are requesting:

Install all concrete foundations for future bus canopies on the eastern portion of the bus parking lot, in addition add water service to each column, and electrical service.

Please provide a detailed explanation why the change in scope is necessary and beneficial:

Installing the foundations at this time will be more cost effective and will prevent unnecessary construction activity when site becomes operational. The water and electrical line will have to be run from column to column if done at later date all concrete would have to be cut and removed thus causing disruption to the operation of the facility.

FOR ENGINEERING DEPARTMENT USE ONLY:

The Engineering Division Manager and Project Manager shall provide the following information to the Assistant City Engineer in order for a recommendation to be submitted to the Deputy City Manager.

BUDGET AND SCHEDULE SUMMARY

Original Total Project Budget:	<u>\$34,000,000.00</u>	Is a budget increase necessary?	<u>Yes</u>	If so how much?	<u>\$379,312.00</u>
Total projected additional cost due to scope change <i>(Includes all construction and engineering costs)</i>	<u>\$379,312.00</u>	Is a budget transfer necessary?	<u>Yes</u>	Does it require Council approval?	<u>Yes</u>
Original Project Schedule Completion Date:	<u>September 22, 2013</u>				
Revised Project Schedule Completion Date: <i>(due to scope change)</i>	<u>November 22, 2013</u>	Is a design amendment	<u>Yes</u>	Does it require Council approval?	<u>No</u>
		Is a change order necessary?	<u>Yes</u>	Does it require Council approval?	<u>Yes</u>

SUMMARY

Does the Assistant City Engineer recommend to Deputy City Manager approval of scope change? Yes No

Please explain recommendation:
It would facilitate future construction of canopies *[Signature]*

Does the Deputy City Manager approve scope change? Yes No

Deputy City Manager signature: *[Signature]*

Date: 6/27/2013



Change Order Review/ RFP Review

Project: Sun Metro Operations & Maintenance Facility

Contractor: Urban Associates

Reviewer: Jorge Diaz

Checked By: Arturo A. Gonzalez

Company: ECM International, Inc.

Date: June 28, 2013

Review of Contract Proposal in Response to Owner Request

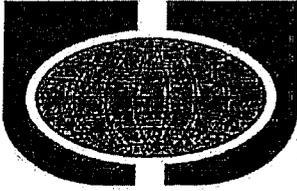
Request for Proposal No. : RFP No. OM-052A (Documents Attached)

Background Information: SM requested the contractor to install concrete footings for the installation of future bus canopies at the East Bus parking area.

Purpose of Request for Proposal: Provide price to install Eighty Four (84) concrete footings as described in ASI-033.

Independent Cost Opinion: \$238,083.12 (See the following pages)

Conclusion: The final negotiated amount is \$237,154.00



Urban Associates Inc.
1400 Geronimo Drive El Paso, TX 79925

June 24, 2013

Serial Letter No. 171-065

ECM International, Inc.
404 Executive Center Blvd.
El Paso, Texas 79902

Attn: Arturo A. Gonzalez, RA
Project Manager;
Gilbert Guerrero, City of El Paso
Project Manager

Re: Sun Metro Operations &
Maintenance Facility Project
RFP OM-052A Concrete for Future Canopies
Footings and Pedestals

\$237,154.00
OK
[Signature]
6/28/2013

Gentlemen:

Enclosed is our response to Request for Proposal (RFP) OM-052A for concrete only at the above referenced project. This proposal only includes concrete for the new canopy location footings and pedestals, as well as additional rebar and handwork associated with the changes in the concrete paving design. We have included our subcontractor's proposal as backup for your review and approval.

The total cost for additional footings and pedestals for the new canopy locations is Two Hundred and Thirty Seven Thousand, One Hundred and Fifty Four (\$237,154.00) Dollars. This item is on the East side of the site and directly impacts the concrete paving. This item represents 28 days impact as of today and may also delay an additional 14 for the pedestals depending on the efforts and resources required for the concrete paving.

If you have any questions or comments regarding this issue please contact me at your earliest convenience at the Office (915) 772-8857 or on my cellular phone (915) 526-7878. Thank you.

Sincerely,

Joseph Riccillo, MBA, PMP, LEED AP
Project Manager
Urban Associates Inc.
cc: Michael Montes, President

Urban Associates Inc.

Change Order Request Breakdown
 Case No. RFP OM-052
 Reinforced Canopy Bases and Pedestals
 Future Canopies

Sun Metro Operations & Maintenance Facilities Project
City of El Paso

Description	Hours	Rate	Labor	Materials	Equipment	Subcontract	Total
1) Concrete for ASI-033			\$ -	\$ -	\$ -	\$ 189,371.00	\$ 189,371.00
2) Anchor Bolts for new pedestools				\$ 14,407.00			\$ 14,407.00
3) Disposal of LEED Materials/Trash			\$ 240.00	\$ 2,025.00	\$ -	\$ -	\$ 2,265.00
As Built Documentation/debris Removal			\$ 70.00		\$ -	\$ -	\$ 70.00
Direct Cost of Proposal Preparation	2	\$150	\$ -	\$ -			\$ -
Subtotal			\$ 310.00	\$ 16,432.00	\$ -	\$ 189,371.00	\$ 206,113.00
Labor Burden (35%)							\$ 108.50
Markup at 15%							\$ -
Total Credit							\$ 30,933.23
							\$ -
							\$ 237,154.73

As-built documentation can be reduced by 1/2 if CADD files are furnished by Architect
 Paint of Columns is excluded at this time, paint type and color will need to be identified to quote this scope

Schedule Fragnet Activities

OM52A1 Order Rebar	14 days	
OM52A2 Place 84 new footings	14 days	
OM52A3 Order Anchor Bolts	21 days	
OM52A4 Place Concrete Pedestals	28 days	Contingent on OM-052B, C

Spreadsheet Report
SUN METRO RFP No. OM-038

Project name SUN METRO RFP No. OM-038
Labor rate table City Of El Paso Site
Equipment rate table VERTEX STANDARD EQUI
Report format Sorted by 'Location/Phase'
'Detail' summary
Print sort level notes

OM-52

Future Canopy Footing

Location	Phase	Description	Takeoff Quantity	Labor Cost/Unit	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip. Price	Equip. Amount	Total Cost/Unit	Total Amount	Notes
unassigned														
01312		FIELD PERSONNEL												
		Labor Foreman (non working)	6.00 wk	1,200.00 /wk	7,200							1,200.00 /wk	7,200	
		FIELD PERSONNEL				7,200							7,200	
01320		CONSTRUCTION DOCUMENTS												
		Extra Plans	1.00 ls						200			200.00 /ls	200	
		CONSTRUCTION DOCUMENTS							200				200	
01450		QUALITY CONTROL												
		Safety Supervisor	0.50 wk	500.00 /wk	250							500.00 /wk	250	
		QUALITY CONTROL				250							250	
01520		CONSTRUCTION FACILITIES												
		Ice Cops Water	1.00 ls				300.00 /mo	300				300.00 /ls	300	
		JobSite Radios	1.00 ea						125.00 /ea			125.00 /ea	125	
		JobSite Cell Phones	1.00 mo						100			100.00 /mo	100	
		CONSTRUCTION FACILITIES							100				100	
01540		CONSTRUCTION AIDS						300	100			125	525	
		Pickup Truck	1.00 mo						750.00 /mo			750.00 /mo	750	Project Superintendent
		Earth Compactors	1.00 mo						3,500.00 /mo			3,500.00 /mo	3,500	
		Power Hand Saws	1.00 ea						175.00 /ea			175.00 /ea	175	
		Portable Generators	1.00 mo						800.00 /mo			800.00 /mo	800	
		Surveyor Equipment	1.00 ls						1,000.00 /ls			1,000.00 /ls	1,000	
		Misc. Small Tools	1.00 ls				2,000.00 /ls	2,000				2,000.00 /ls	2,000	
		Misc. Concrete Tools	1.00 ls						1,500.00 /ls			1,500.00 /ls	1,500	
		Concrete Vibrators	1.00 mo				300.00 /mo	300				300.00 /mo	300	
		Fuel	1.00 mo				1,500.00 /mo	1,500				1,500.00 /mo	1,500	
		Diesel	1.00 mo				2,000.00 /mo	2,000				2,000.00 /mo	2,000	
		Oils & Filters	1.00 ls				500.00 /ls	500				500.00 /ls	500	
		Safety Equipment	1.00 ls						1,500.00 /ls			1,500.00 /ls	1,500	
		Job Site Utility Truck	1.00 mo						300.00 /mo			300.00 /mo	300	
		CONSTRUCTION AIDS						7,300				6,525	13,825	
01720		SURVEYING/ENGINEERING												
		Field Engineer	1.00 wk	600.00 /wk	600							600.00 /wk	600	
		Surveyor Supplies	1.00 ls				400.00 /ls	400				400.00 /ls	400	
		Layout/Batter Boards	24.00 hr	26.50 /hr	636							26.50 /hr	636	
		SURVEYING/ENGINEERING				636		400					1,036	
02320		BUILDING EXCAVATION												
		Excav Footing (Machine)	587.00 cy	5.58 /cy	2,500				40.00 /hour		3,250	9.30 /cy	5,400	Materials = Fuel
		Hand-off Spoil	256.48 cy	1.25 /cy	320				30.00 /hour		720	3.98 /cy	1,026	Materials = Fuel
		Level & Grads	4,724.00 sf	0.81 /sf	3,826				15.00 /hour		1,260	0.87 /sf	4,116	
		Hand Compaction	320.68 cy	4.75 /cy	1,523				57.00 /hour		1,828	10.45 /cy	3,351	Material = Fuel
		BUILDING EXCAVATION			6,815							7,168	13,983	
03110		FORMWORK												
		Form Spot Footing Rect SF	5,040.00 sf	0.48 /sf	2,419		0.50 /sf	2,520				0.98 /sf	4,939	
		Form Round Pile 30"	393.72 lf	6.70 /lf	2,636		0.53 /lf	3,303				15.76 /lf	5,739	
		Dimension Form Lumber	1,428.00 bf				0.55 /bf	785				0.55 /bf	785	This is a mix of dimensional lumber used to brace and support plywood form work
		Chamfer	659.00 lf				0.25 /lf	165				0.25 /lf	165	
		Metal Stakes	150.00 ea				2.35 /ea	353				2.35 /ea	353	
		Nails & Fastners	300.00 lbs				1.00 /lbs	300				1.00 /lbs	300	
		Remove and Clean Forms	5,040.00 sf	0.28 /sf	1,411		6.00 /sf	30,240				6.28 /sf	31,651	
		Remove and Clean Forms Plyths	384.00 lf	2.77 /lf	1,063							2.77 /lf	1,063	Main = Form Or
		Place Anchor Bolts Templates	84.00 ea	26.50 /ea	2,226		0.75 /sf	332				2.77 /lf	1,063	Main = Form Or
		Remove Anchor Bolt Templates	84.00 ea	5.50 /ea	462							5.50 /ea	462	
		Rebar Template	84.00 Ea	14.50 /Ea	1,212		5.00 /Ea	420				19.50 /Ea	1,632	
		FORMWORK			11,155			8,248				19,403	19,403	
03210		REINFORCING												
		Plastic Chairs (Round Pénns)	840.00 ea				0.25 /ea	210				0.25 /ea	210	
		Metal Chairs (Spot Pins)	972.00 ea				0.30 /ea	292				0.30 /ea	292	

Location	Phase	Description	Takeoff Quantity	Labor Cost/Unit	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Total Cost/Unit	Total Amount	Notes
		REINFORCING												
		Tie Wire	7.00 box	-	-	-	60.00 /box	420	-	-	-	60.00 /box	420	
		Rebar Per Take-Off	8.80 in	424.01 /in	13.00 /hour	4,155	1,100.00 /in	10,780	-	10.00 /hour	1,598	1,687.06 /in	16,533	
		Rebar Per Take-Off	20.30 in	191.20 /in	13.00 /hour	3,981	1,100.00 /in	22,330	-	10.00 /hour	2,988	1,438.28 /in	29,197	
		REINFORCING				8,037		34,026			4,584		45,846	
		CAST IN PLACE CONCRETE												
		3000 PSI HR (Spot Figs)	384.44 cy	-	-	-	75.00 /cy	28,833	-	-	-	75.00 /cy	28,833	
		3000 PSI HR (Round Plinths)	69.45 cy	-	-	-	75.00 /cy	5,209	-	-	-	75.00 /cy	5,209	
		Place Rectangular Spot Footing	384.44 cy	5.14 /cy	47.00 /hour	1,974	-	-	-	-	-	5.14 /cy	1,974	
		Place Round Plinths	69.45 cy	18.95 /cy	47.00 /hour	1,316	-	-	-	-	-	18.95 /cy	1,316	
		CAST IN PLACE CONCRETE				3,290		34,042					37,332	
		CEMENT FINISHING												
		Flot Finish Top Fg	4,724.00 sf	0.03 /sf	14.00 /hr	294	-	-	-	-	-	0.03 /sf	294	
		BFP Vertical (Form in Contact)	2,855.00 sf	0.10 /sf	14.00 /hour	294	0.05 /sf	143	-	-	-	0.15 /sf	437	
		Carboundum Rub	2,855.00 sf	0.57 /sf	25.00 /hour	1,050	0.15 /sf	428	-	-	-	0.52 /sf	1,478	
		Finish Top Of Plinth	412.00 sf	0.77 /sf	15.00 /hr	315	-	-	-	-	-	0.77 /sf	315	
		CEMENT FINISHING				1,953		571					2,524	
		CURING & PROTECTING												
		Curing Compound Vert. Surf. (Red Plinths)	2,855.00 sf	0.04 /sf	11.00 /hour	105	6.00 /ga	69	-	-	-	0.06 /sf	173	
		Curing Compound Horiz Surf. (Spot Figs)	4,724.00 sf	0.04 /sf	12.00 /hour	189	6.00 /ga	113	-	-	-	0.06 /sf	281	
		CURING & PROTECTING				273		182					455	
		unassigned				40,248		85,069	300		20,402		146,019	

Estimate Totals

Description	Amount	Totals	Hours	Rate	Cost Basis	Cost per Unit	Percent of Total
Labor	40,248		2,929.126 hrs				21.25%
Labor Burden	14,087						7.44%
General Liability	2,717			35.000 %	C		1.43%
Material	85,069			5.000 %	T		44.92%
Subcontract	300						0.16%
Equipment	20,402		830.568 hrs				10.77%
Other							
	162,823	162,823					85.98%
Overhead	11,398			7.000 %	T		5.02%
Profit	15,150			8.000 %	T		8.00%
Total		189,371					

El Paso Machine & Steel, Inc.
Change Order #

3

TO: Project Manager
URBAN & ASSOIATES

Date: 10-Jun-13
RFP OM-62

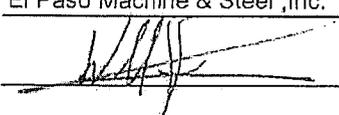
Project Name: 1316 SUN METRO BUS SHELTERS Additional Anchor Bolts

We request the following changes in this Subcontract.

Additional days required	10
Price this change order	\$ 14,407.01

Not valid until signed by both Contractor and Subcontractor. Signature of the Subcontractor indicated his agreement herewith.

Original Subcontract amount
Total Previous Contract Changes
Total before this Change Order
Subtotal
Revised Contract Amount

Contractor: Urban & Associates Sub-Contractor El Paso Machine & Steel ,Inc.
Signature: _____ Signature: 

EPM&S JOB ID

1316 SUN METRO BUS SHELTERS

DESCRIPTION	Additional Anchor Bolts	RFP #	OM-62
DATE	10-Jun-13	Change Order #	3
CONTRACTOR	URBAN & ASSOCIATES	Additional Days Required	10

DESCRIPTION	UNIT	UOM	UNIT PRICE	EXTENSION
MATERIAL	Anchor Bolts - Washers - Nuts	Each	\$ 33.85	\$ 11,373.60
			\$	-
			\$	-
			\$	-
			\$	-
			\$	-
			\$	-
			\$	-

Handwritten notes:
 21
 X4 Canopies
 84 Footings
 X4 bolts/footing
 336 bolts

SUBTOTAL MATERIAL COST \$ 11,373.60

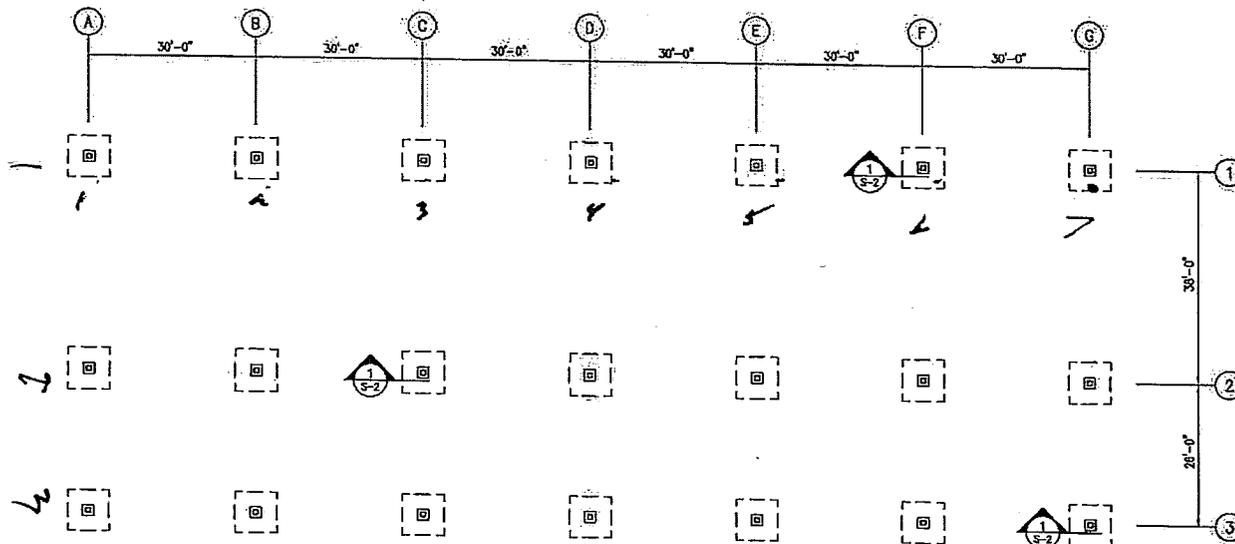
DESCRIPTION	MH's.	UNIT PRICE	EXTENSION
LABOR			\$ -
Welders Shop Handling			\$ -
Field Labor			\$ -
Delivery			\$ -
Field Measure			\$ -
	Man Hours	0	\$ -

BURDEN	Workman's Comp. Field	5040	26.50%	\$ -	\$ -
	Workman's Comp. Shop	3040	10.97%	\$ -	\$ -
	Health Insurance		10.50%	\$ -	\$ -
	FICA		7.65%	\$ -	\$ -
	General Liability Insurance	97655	2.69%	\$ -	\$ -
	SUTA		6.24%	\$ -	\$ -
	FUTA		0.80%	\$ -	\$ -
	Burden Average		0.00%	\$ -	\$ -

SUBTOTAL LABOR & BURDEN \$ -

DESCRIPTION	HOUR	UNIT PRICE	EXTENSION
EQUIPMENT			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
SAFETY			\$ -
DELEVERY	3	\$ 150.00	\$ 450.00
			\$ -
QUALITY CONTROL	Inspection		\$ -
	Drawings	10	\$ 65.00
			\$ 650.00
SUBCONTRACTORS			\$ -
SUBTOTAL OTHER COST			\$ 1,100.00
TOTAL DIRECT COST			\$ 12,473.60

OVERHEAD	10.0%	\$	1,247.36
PROFIT	5.0%	\$	686.05
PAYMENT & PERFORMANCE BOND	0.00%	\$	-
TOTAL COST		\$	14,407.01



FOUNDATION PLAN
 SC: 1" = 20' - 0"
 FUTURE CANOPY

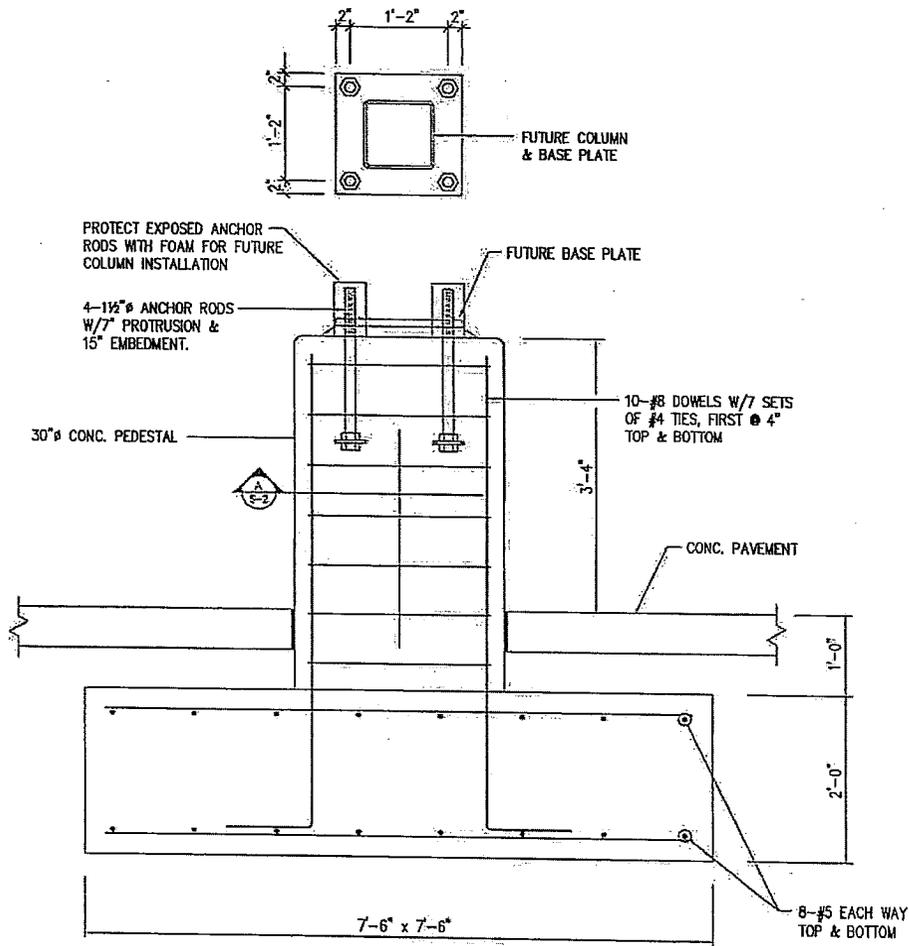
*21 one canopy
 X
 4 canopies
 84*



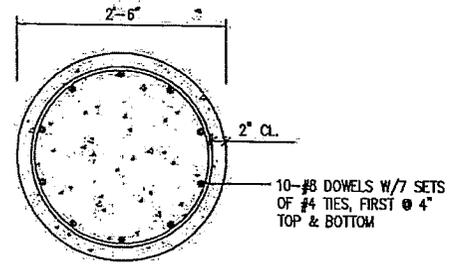
CITY OF EL PASO
 OPERATIONS + MAINTENANCE FACILITY
 10151 MONTANA AVE. EL PASO, TEXAS 79936



HN Henry K. Ng & Associates
 Consulting Engineers, Inc.
 8228 Glen Drive, El Paso, Texas 79921
 Tel: (915) 833-8280 Fax: (915) 833-3300
 P.O. Box 177 El Paso, TX 79921



1
S-1 DETAIL
SC: 3/4" = 1' - 0"



A
S-1 SECTION
SC: 3/4" = 1' - 0"



hknengineers

5825 Onix Drive / El Paso, Tx 79912 FIRM REG. # F-001239
 ph. (915) 833-2100 / fax (915) 833-3855 www.hknengineers.com



CITY OF EL PASO
 OPERATIONS + MAINTENANCE FACILITY
 10151 MONTANA AVE. EL PASO, TEXAS 79936

CITY OF EL PASO- Engineering And Construction Management
 CHANGE ORDER - INDEPENDENT ANALYSIS



CONTRACT NO: 2011-514

PROJECT: Sun Metro Operations & Maintenance Facility

CONTRACTOR: Urban Associates, Inc.

RFP No. OM-052A

Description	Qty	Unit	Unit Price	Labor Burden 35%	Total	Comments/Source
1 1/2" x 22" Anchor Bolts	336.00	EA	\$73.99	\$25.90	\$33,561.86	RS Means Online 2013 Line No. 03 15 19.10
Spot Footings - Concrete	350.00	CY	\$99.62	\$34.87	\$47,070.45	RS Means Online 2013 Line No. 03 31 05.35
Pedestal - Concrete	65.99	CY	\$99.62	\$34.87	\$8,874.38	RS Means Online 2013 Line No. 03 31 05.35
#5 Reinforcing	6.72	TN	\$1,680.25	\$588.09	\$15,243.23	RS Means Online 2013 Line No. 03 21 10.60
#8 Dowels	20.16	TN	\$1,456.57	\$218.49	\$33,769.12	RS Means Online 2013 Line No. 03 21 10.60
Concrete Placement/Finish	415.99	CY	\$8.60	\$1.29	\$4,114.14	RS Means Online 2013 Line No. 03 31 05.70
Spot Footings - Forms	4725.00	SFCA	\$7.09	\$1.06	\$38,525.29	RS Means Online 2013 Line No. 03 11 13.20
Pedestal - Round Tube	363.72	LF	\$23.72	\$3.56	\$9,921.55	RS Means Online 2013 Line No. 03 11 13.25
Spot Footings -Curing	47.25	CSF	\$23.52	\$3.53	\$1,278.02	RS Means Online 2013 Line No. 03 39 23.13
Pedestal - Curing	280.19	CSF	\$23.52	\$3.53	\$7,578.45	RS Means Online 2013 Line No. 03 39 23.13
Spot Footings -Protecting	47.25	CSF	\$11.49	\$1.72	\$624.34	RS Means Online 2013 Line No. 03 39 23.02
Pedestal - Protecting	280.19	CSF	\$11.49	\$1.72	\$3,702.23	RS Means Online 2013 Line No. 03 39 23.02
AS-Built	1.00	LS	\$140.00	\$21.00	\$161.00	Previously approved amount on C.O.'s
Disposal of LEED Materials/Trash	1.00	LS	\$2,265.00	\$339.75	\$2,604.75	Contractor's Proposal
-	0.00	-		\$0.00	\$0.00	
-	0.00	-		\$0.00	\$0.00	
SUB-TOTAL					\$207,028.80	

Urban's OH/P @ 15% =

\$31,054.32

\$238,083.12

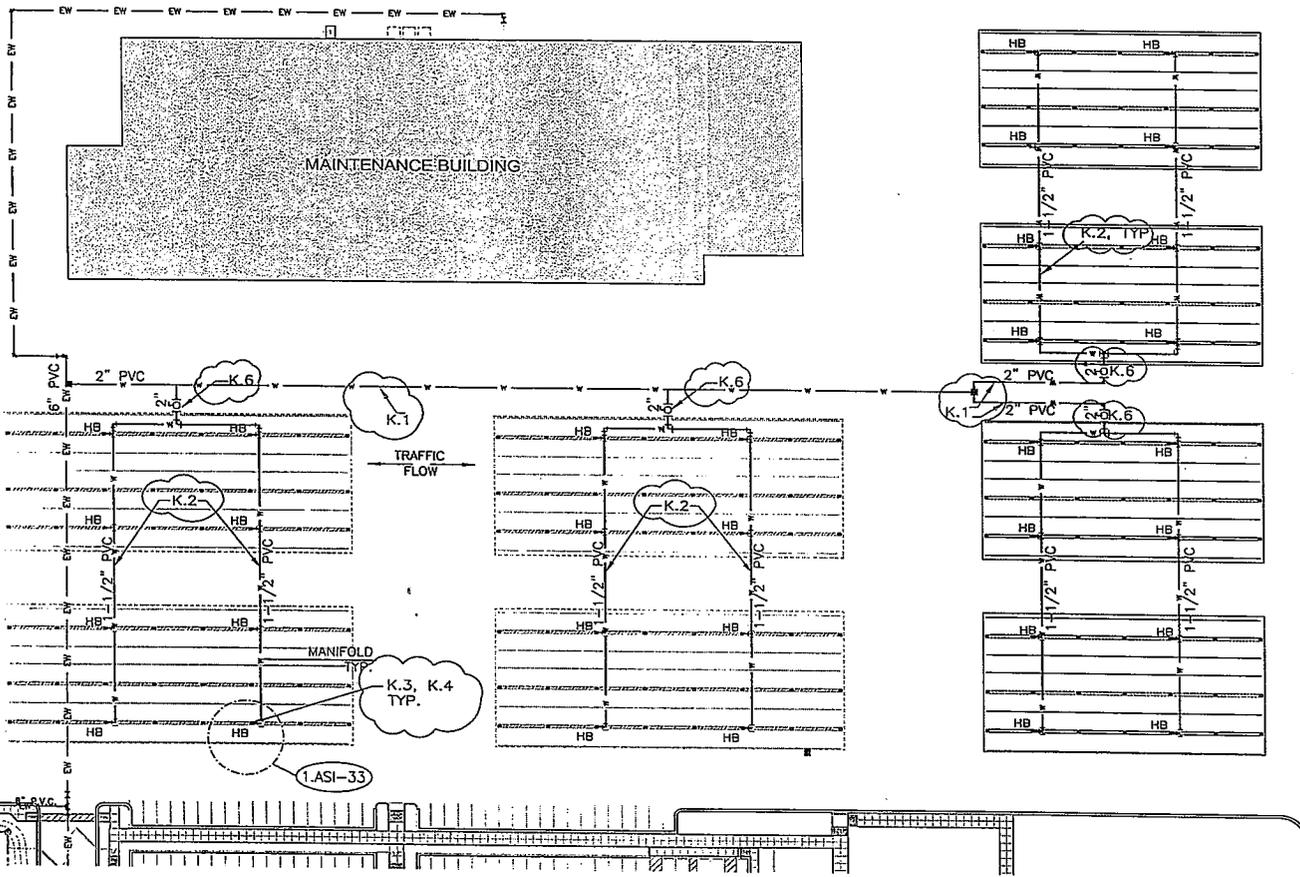
ITEM	LENGTH	WIDTH	DEPTH	TOTAL	UNIT
1 1/2" x 22" Anchor Bolts	21.00	4.00	4.00	336.00	EA
Spot Footings - Concrete	7.50	7.50	2.00	350.00	CY
Pedestal - Concrete	3.14	1.56	4.33	65.99	CY
#5 Reinforcing	8.00	1.00	1.00	6.72	TN
#8 Dowels	10.00	2.40	1.00	20.16	TN
Concrete Placement/Finish	350.00	65.99	1.00	415.99	CY
Spot Footings - Forms	84.00	7.50	7.50	4725.00	SFCA
Pedestal - Round Tube	84.00	1.00	4.33	363.72	LF
Spot Footings -Curing	84.00	7.50	7.50	47.25	CSF
Pedestal - Curing	84.00	9.81	33.99	280.19	CSF
Spot Footings -Protecting	84.00	7.50	7.50	47.25	CSF
Pedestal - Protecting	84.00	9.81	33.99	280.19	CSF
AS-Built	1.00	1.00	1.00	1.00	LS
Disposal of LEED Materials/Trash	1.00	1.00	1.00	1.00	LS
-				0.00	-
-				0.00	-

Date: 27-Jun-13

OM-52A Concrete for Future Canopies Footings and Pedesta
Year 2013 Quarter 2
Unit Detail Report with Subcontracted Lines

Prepared By:
Arturo Gonzalez
ECM International

Line Number	  	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P	Ext. Total Incl. O&P (Sub-Contracted)
03 Concrete							
031113201500		C.I.P. concrete forms, beams and girders, exterior spandrel, plywood, 24" wide, 1 use, includes shoring, erecting, bracing, stripping and cleaning	1.00	SFCA	\$7.09	7.09	0.00
031113250800		C.I.P. concrete forms, column, round, fiberglass, rent, 30" diameter, 4 uses per month, includes erecting, bracing, stripping and cleaning	1.00	L.F.	\$23.83	23.83	0.00
031519100510		 Anchor bolt, L-type, 2-bolt set, plain steel, 1-1/2" dia x 24" L, incl nut & washer, job-built 2-hole template	1.00	Set	\$73.99	73.99	0.00
032110600200		 Reinforcing Steel, in place, columns, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	1.00	Ton	\$1,680.25	1,680.25	0.00
032110600250		 Reinforcing Steel, in place, columns, #8 to #18, A615, grade 60, incl labor for accessories, excl material for accessories	1.00	Ton	\$1,456.57	1,456.57	0.00
033105350150		Structural concrete, ready mix, normal weight, 3000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivered, excludes all additives and treatments	1.00	C.Y.	\$99.62	99.62	0.00
033105701900		Structural concrete, placing, continuous footing, shallow, direct chute, includes leveling (strike off) & consolidation, excludes material	1.00	C.Y.	\$8.60	8.60	0.00
033923130300		Concrete surface treatment, curing, sprayed membrane compound	1.00	C.S.F.	\$11.49	11.49	0.00
033923230200		Curing, burlap/poly blanket, 2 ply	1.00	C.S.F.	\$23.52	23.52	0.00
03 Concrete Subtotal						3,384.96	0.00



1.SP1.15 BUS PARKING CANOPY UTILITIES SITE PLAN

1" = 80'

KEYED NOTES

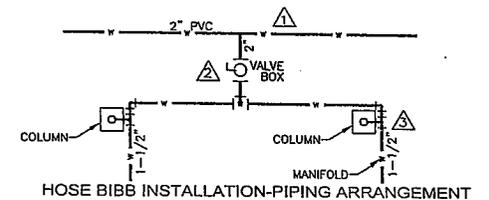
- K.1 2" PVC WATER LINE TO MATCH 6" PVC WATER MAIN, 24" MIN. BELOW GRADE.
- K.2 1-1/2" PVC WATER LINE TO MATCH 6" PVC WATER MAIN, 24" MIN. BELOW GRADE.
- K.3 HOSE BIBB CONNECTION REFER TO SHEET 2 OF 2
- K.4 HOSE BIBB AT CONCRETE COLUMN PEDESTAL. NOZZLE TO BE AFG.
- K.5 NOT USE
- K.6 2" ISOLATION SHUT-OFF VALVE WITH TRAFFIC-BEARING BOX AND COVER REFER TO DETAIL SHEET 3 OF 3

LEGEND

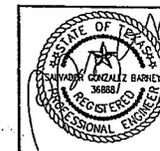
- HB HOSE BIBB
- EW EXISTING 6" PVC WATER MAIN
- PROPOSED WATER LINE

KEYED NOTES HB INSTALLATION

- ▲ INSTALL 2" PVC SCHEDULE 40 PIPE AS CLOSE TO CANOPY AS POSSIBLE AT A MINIMUM OF 24" BELOW GRADE
- ▲ INSTALL VALVE BOX AND VALVE AT EACH GROUP OF CANOPIES AS INDICATED. REFER TO DETAIL SP1.15 1 OF 2
- ▲ INSTALL HOSE BIBB AS INDICATED ON SHEET SP1.15 2 OF 2



CITY OF EL PASO
OPERATIONS + MAINTENANCE FACILITY
10151 MONTANA AVE. EL PASO, TEXAS 79936

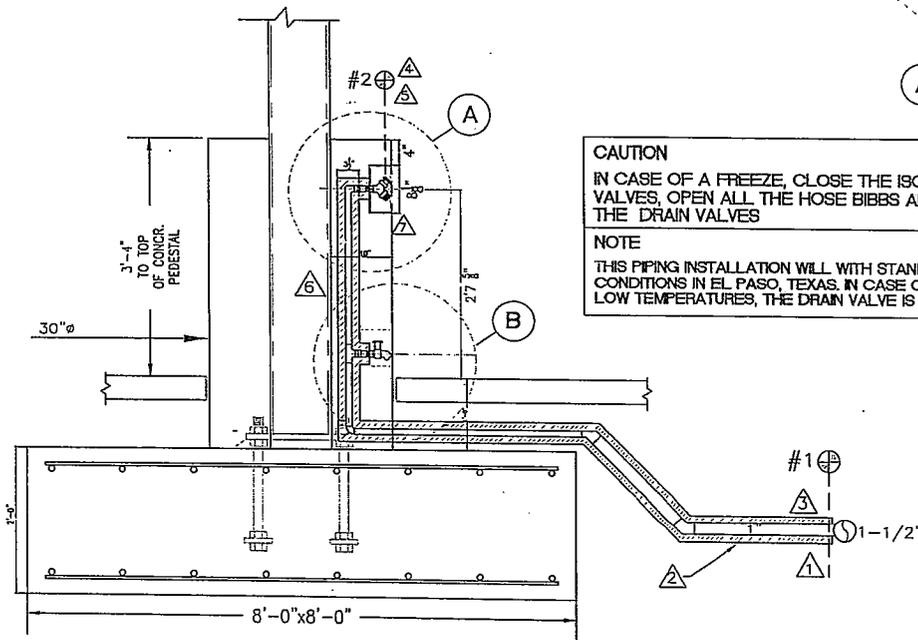
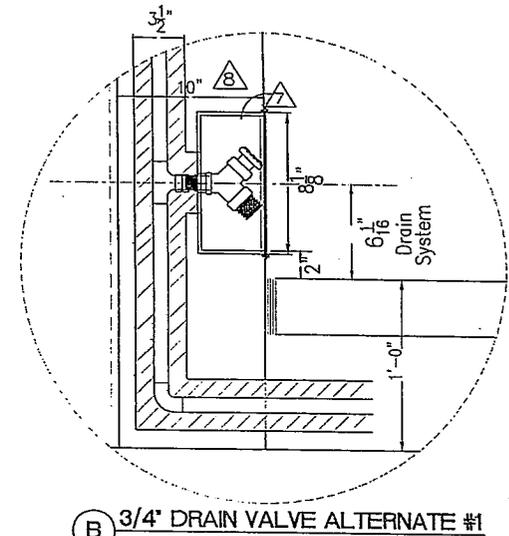
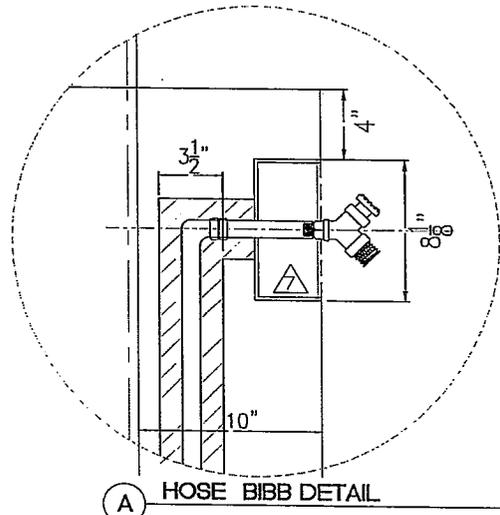
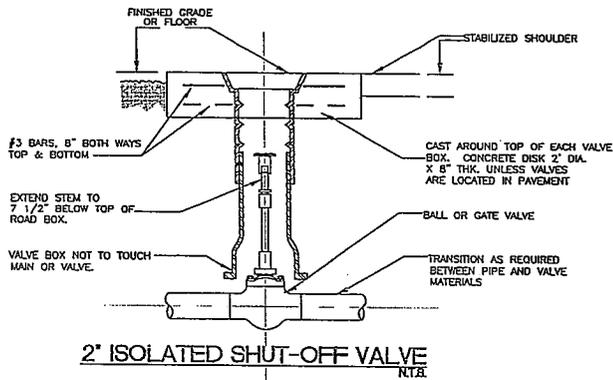


SGB ENGINEERING, INC.
CONSULTING MECHANICAL ENGINEERS
1131 E. YANDELL #100 EL PASO, TX. 79902
PH (915) 565-5205, FAX (915) 565-9220
CELL (915) 820-5800, e-mail: sgb1@att.net
REGISTRATION NO. F - 5187

JUN-12-13
ASI-33
REF Sheet SP1.15

Sheet 1 of 2





CAUTION
 IN CASE OF A FREEZE, CLOSE THE ISOLATION VALVES, OPEN ALL THE HOSE BIBBS AND OPEN THE DRAIN VALVES

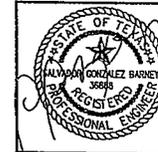
NOTE
 THIS PIPING INSTALLATION WILL WITH STAND NORMAL WINTER CONDITIONS IN EL PASO, TEXAS. IN CASE OF EXCEPTIONAL LOW TEMPERATURES, THE DRAIN VALVE IS RECOMMENDED.

KEYED NOTES:

- ⚠️ CONNECT 1" PVC SCHEDULE 80 PIPE TO 2" MAIN. 2" MAIN SHALL BE INSTALLED AT 24" BELOW GRADE MINIMUM.
- ⚠️ INSTALL 1" PVC SCHEDULE 80 PRE-INSULATED PIPE FROM POINT OF CONNECTION #1 TO POINT OF CONNECTION #2
- ⚠️ PRE-INSULATED PIPE SUPPLIER WILL PROVIDE THE INSULATION FOR THE FITTINGS.
- ⚠️ AT POINT OF CONNECTION #2 INSTALL HOSE BIBB. PROVIDE SCHEDULE 80 FITTING WITH FEMALE THREAD.
- ⚠️ PROVIDE CASING ZURN Z1341 AND INSTALL AS SHOWN ON DETAIL A. PROVIDE 1" X 3/4" REDUCER AND 3/4" FITTING W/MALE THREAD FOR BIBB.
- ⚠️ LOCATE PRE-INSULATED PIPE AS CLOSE TO COLUMN AS POSSIBLE
- ⚠️ INSULATE EXPOSED PIPE
- ⚠️ PROVIDE CASING ZURN Z1342 AND INSTALL AS SHOWN ON DETAIL B. PROVIDE 1" X 3/4" REDUCER AND 3/4" FITTING W/ MALE THREAD FOR BIBB.

**HOSE BIBB INSTALLATION
 1.SP1.15 CONCRETE COLUMN PEDESTAL DETAIL**

N.T.S.



SGB ENGINEERING, INC.
 CONSULTING MECHANICAL ENGINEERS

1131 E. YANDELL #100 EL PASO, TX. 79902
 PH (915) 565-5205, FAX (915) 565-9220
 CELL (915) 820-5800, e-mail: sgot@att.net
 REGISTRATION No. P - 5187

JUN-12-13
 ASI-33
 REF Sheet SP1.15





Change Order Review/ RFP Review

Project: Sun Metro Operations & Maintenance Facility

Contractor: Urban Associates

Reviewer: Jorge Diaz

Checked By: Arturo A. Gonzalez

Company: ECM International, Inc.

Date: June 27, 2013

Review of Contract Proposal in Response to Owner Request

Request for Proposal No. : RFP No. OM-052C (Documents Attached)

Background Information:

SM requested to have hose bibs installed at the Bus Parking area to wash bus windows and windshields. See weekly construction meeting minutes of Feb. 5, 2013.

Purpose of Request for Proposal:

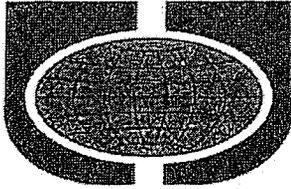
Provide price to install hose bibs as described in ASI-033 and further discussed with CoEP-ENG, ALV and ECM

Independent Cost Opinion:

\$64,070.35 (See the following pages)

Conclusion:

The final negotiated amount is **\$63,332.00**



Urban Associates Inc.
1400 Geronimo Drive El Paso, TX 79925

June 21, 2013

Serial Letter No. 171-071

ECM International, Inc.
404 Executive Center Blvd.
El Paso, Texas 79902

Attn: Arturo A. Gonzalez, RA
Project Manager;
Gilbert Guerrero, City of El Paso
Project Manager

Re: Sun Metro Operations &
Maintenance Facility Project
RFP OM-052C/ASI-033 Plumbing Only
OPTION from 6/20/13 Meeting

\$63,332.00
OK *[Signature]*

Gentlemen:

Enclosed is an additional option provided for RFP OM-052C/ASI-033 for the above referenced project. After our last proposal a meeting was held at our request on June 20th, 2013 with the City, Construction Manager and Architect to discuss options for the hose-bib connection. We are providing this option as a result of this meeting, but will still require approval, engineered drawings and construction permit drawings in order to make this solution viable.

The cost of the plumbing work only for existing and new plumbing per ASI-033/OM-052C OPTION is Sixty Three Thousand, Three Hundred and Thirty Two (\$63,332.00) Dollars. Due to the delays regarding this issue and its impact the concrete paving on the schedule, this work alone has already delayed the project over 50 days and will create an additional 30 days delay from the time of notice to proceed.

If you have any questions or comments regarding this issue please contact me at your earliest convenience at the Office (915) 772-8857 or on my cellular phone (915) 526-7878. Thank you.

Sincerely,

[Signature]
Joseph Riccillo, MBA, PMP, LEED AP
Project Manager
Urban Associates Inc.
cc: Michael Montes, President

Urban Associates Inc.

Change Order Request Breakdown
 Case No. RFP OM-052C
 OPTION: Plumbing Hosebibs

Sun Metro Operations & Maintenance Facilities Project
 City of El Paso

Description	Hours	Rate	Labor	Materials	Equipment	Subcontract	Total
1) Installation of Plumbing Base Bid ASI-033			\$ -	\$ -	\$ -	\$ 52,782.00	\$ 52,782.00
2) Clean-up/export/LEED			\$ 1,101.60	\$ -	\$ 675.00	\$ -	\$ 1,776.60
As Built Documentation/debris Removal			\$ 94.50	\$ -	\$ -	\$ -	\$ 94.50
Direct Cost of Proposal Preparation	2	\$150	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal			\$ 1,196.10	\$ -	\$ 675.00	\$ 52,782.00	\$ 54,653.10
Labor Burden (35%)							\$ 418.64
Markup at 15%							\$ 8,260.76
Total Credit							\$ -
							\$ 63,332.50

As-built documentation can be reduced by 1/2 if CADD files are furnished by Architect

Schedule Fragnet Activities

OM-052C Procurement of Materials	14
OM-052C2 Installation of plumbing lines to canopies	16

These activities will need to be figured at time of NTP.

**Excludes concrete curb*

FUNK and COMPANY

MECHANICAL



ELECTRICAL CONTRACTORS

2000 Myrtle
El Paso, Texas 79901
(915) 542-1502

TACLA15297E
M-18867
TECL-27792

P.O. Box 3189
El Paso, TX 79923
FAX (915) 534-4409

Urban Associates
1400 Geronimo
El Paso, Texas 79925

June 21, 2013

ATTN: Joe Ricillo

REF: Sun Metro Operations and Maintenance Facility

Subject: OM-052 Canopy Hose Bibbs and Piping
FIP 566-009 - REVISED

Mr. Ricillo,

Please find enclosed Proposal Breakdown reflecting a contract increase in the amount of **\$52,782.00** to furnish materials, labor and equipment necessary for the addition of 32 each Freeze Proof Yard Hydrants and associated piping. This proposal is based on the discussions held with representatives from ECM, Alvidrez Architects, The City of El Paso, Urban Associates and Funk and Company, at the meeting of June 20th. This proposal has been revised to reflect the installation of Freeze Proof Hydrants in lieu of hose bibbs, and to delete the requirement for pre-insulated piping from the RFP. It is understood that upon final clarification on the concrete cut out and concrete curb strips as determined by the Architect and the City of El Paso, the final drawings to reflect the installation of Post Hydrants in lieu of hose bibbs, will be issued by SGB.

We have included the **Zurn Model Z-1385 Freeze Proof Post Hydrant** in our Proposal. But we have also included a product data sheet of a **Woodford Model Y2 Yard Hydrant** as an Option to the Owner. The Woodford Hydrant is less expensive but may not allow the clearance required from FF. Please advise immediately which Hydrant the owner will prefer.

We have also included a gravel drain pit and drain tube to divert the bleed of water away from the concrete footings as discussed at the meeting.

We specifically exclude Concrete or Asphalt cut or patch, any work associated with concrete forms, repair of any existing underground lines if not identified and damaged during excavation activities, and any other work not specifically included in our cost breakdown.

Please note that a lead time of 2 to 3 weeks for the Hydrants (based on partial order shipping).

We will require a time extension of 30 days to perform the work from the date of proposal approval. This time extension is contingent upon the delivery of the yard hydrants within 3 weeks.

We respectfully request that you expedite a decision on this proposal, and please feel free to contact us if additional clarification regarding this Proposal is needed.

FUNK and COMPANY

Alex Aguirre

File: 566-I-A, FIP 566-009 REVISED

PROPOSAL DATE: June 21, 2013

OWNER NO. OM-052 Canopy Bibbs and Piping

JOB NO. 566

NAME: SUN METRO

FIP NO. 009 - REV

DESCRIPTION: Add Canopy Hose Bibbs and Piping - REVISED

A. MATERIAL, FIXTURES, EQUIPMENT COST:	\$27,118.47	HVAC	PLUMBING
		0.00	27,118.47
TAX 0.00%	\$0.00		
MATERIAL, FIXTURES, EQUIPMENT SUBTOTAL:			\$27,118.47

B. LABOR and BURDEN:	RATE:	MAN HRS	AMOUNT
I FOREMAN PLUMBING.....	\$40.00	43	\$1,720.00
JOURNEYMAN PLUMBING.....	\$38.40	218	\$8,371.20
APPRENTICE PLUMBING.....	\$26.87	218	\$5,857.66
LABORER PLUMBING.....	\$16.87	0	
FOREMAN SHEETMETAL HVAC.....	\$39.00	0	\$0.00
INSTALLER - TECH SHEETMETAL HVAC.....	\$36.67	0	\$0.00
APPRENTICE SHEETMETAL HVAC.....	\$25.66	0	\$0.00
LABORER SHEETMETAL HVAC.....	\$16.87	0	
SHOP - FABRICATION.....	\$24.50	0	\$0.00
AUTO CAD SHOP DRAWINGS.....	\$20.25	0	\$0.00
PROJECT MANAGEMENT.....	\$90.00	8	\$720.00
LABOR SUBTOTAL:			\$16,668.86

C. LABOR RELATED COSTS:		
Clean Up.....		\$200.00
Material and Equipment Handling.....		\$150.00
Test and Start.....		\$400.00
As Bullets.....	Red Lines (no cad drawings)	\$150.00
Permits.....		\$0.00
Consumables.....		\$750.00
Premium Purchase.....		\$0.00
Small Tools.....		\$250.00
Gas and Oil - Transportation.....		\$125.00
IDENTIFICATION: Pipe, Equipment, Accessories.....		\$0.00
Sterilization, Flushing, System Treatment.....		\$0.00
Warranty Exposure.....		\$85.00
Rental Equipment.....		\$0.00
LABOR RELATED COSTS SUBTOTAL:		\$2,110.00

FUNK and COMPANY Cost - - Subtotal..... \$45,897.33

D. MARK UP:	OVERHEAD 0%	\$0.00	
	PROFIT 15%	\$6,884.60	
FUNK and COMPANY Mark Up - - Subtotal.....			\$6,884.60

E. SUBCONTRACTOR COST:	\$0.00	NA	NA
SUBCONTRACTOR MARK UP: 15%	\$0.00	0.00	0.00
Subcontractor Cost and Mark Up - Subtotal.....			\$0.00

F. PROPOSAL COST AND MARK UP SUBTOTAL..... \$52,781.93

G. BOND..... 0.00% \$0.00

TOTAL PROPOSAL AMOUNT..... \$52,781.93

MATERIAL AND LABOR BREAKDOWN

JOB NAME: Sun Metro
 DESCRIPTION: Canopy Hose Bibbs and Piping
 FIP NO: 009-REV REVISED

JOB NO. 566
 DATE 6/21/2013
 PAGE 1

QTY	DESCRIPTION	EQUIPMENT		ROUGH MATERIALS		LABOR	
		STANDARD UNIT	EXTENSION	STANDARD UNIT	EXTENSION	STANDARD UNIT	EXTENSION
800	LF 2" Sch 80 PVC Pressure Pipe Cem Socket Jt			1.67	1,336.00	0.08	64
1700	LF 1-1/2" ↓			1.21	2,057.00	0.07	119
4	2" Sch PVC 80 - 90 ELL			3.23	12.92	0.24	0.96
8	1-1/2" ↓			2.68	21.44	0.24	1.92
32	1" ↓			1.87	59.84	0.17	5.44
1	2" Sch PVC 80 - 45 ELL			7.66	7.66	0.24	0.24
	↓						
7	2" Sch 80 PVC TEE			11.53	80.71	0.33	2.31
32	1-1/2" ↓			9.23	295.36	0.33	10.56
8	2" x 1-1/2" Sch 80 PVC Bushing Red			4.62	36.96	0.14	1.12
32	1-1/2" x 1" ↓			3.25	104.00	0.12	3.84
31	1" x 3/4" ↓			1.51	46.81	0.11	3.41
10	2" Sch 80 PVC Socket x MIP Adaptor			8.91	89.10	0.14	1.4
32	1" ↓			3.62	115.84	0.11	3.52
30	2" Sch 80 PVC Coupling			4.12	123.60	0.24	7.2
50	1-1/2" ↓			3.76	188.00	0.23	11.5
32	1" ↓			2.28	72.96	0.17	5.44
8	1-1/2" Sch 80 PVC Cap			3.63	29.04	0.14	1.12
1	6" AWWA x 2" IPS Tapping Saddle			90.31	90.31	5.33	5.33
1	2" Tapping Valve			157.80	157.80	0	0
4	2" Bronze Gate Valve (Extended Handle)			248.13	992.52	1.72	6.88
4	Valve Box (HD adjustable 24-36) - Water			55.00	220.00	1.5	6
4	Valve Top Concrete Collar			125.00	500.00	0	0
500	1" Sch 80 PVC Pressure Pipe Cem Socket Joint			1.18	590.00	0.07	35
32	3/4" Freeze Proof PH Z-1385 (3 FT Bury)	245.80	7,865.60	50.00	1,600.00	4.37	139.84
	- 5 ft. weep line						
	- 5 Gallon # - gravel drain pit						
695	CY Excavation Backfill Compaction	15.00	10,425.00	0.00	0.00	0	0
			\$18,290.60		\$8,827.87		436.03

FIXT-EQUIP-MAT: \$27,118.47

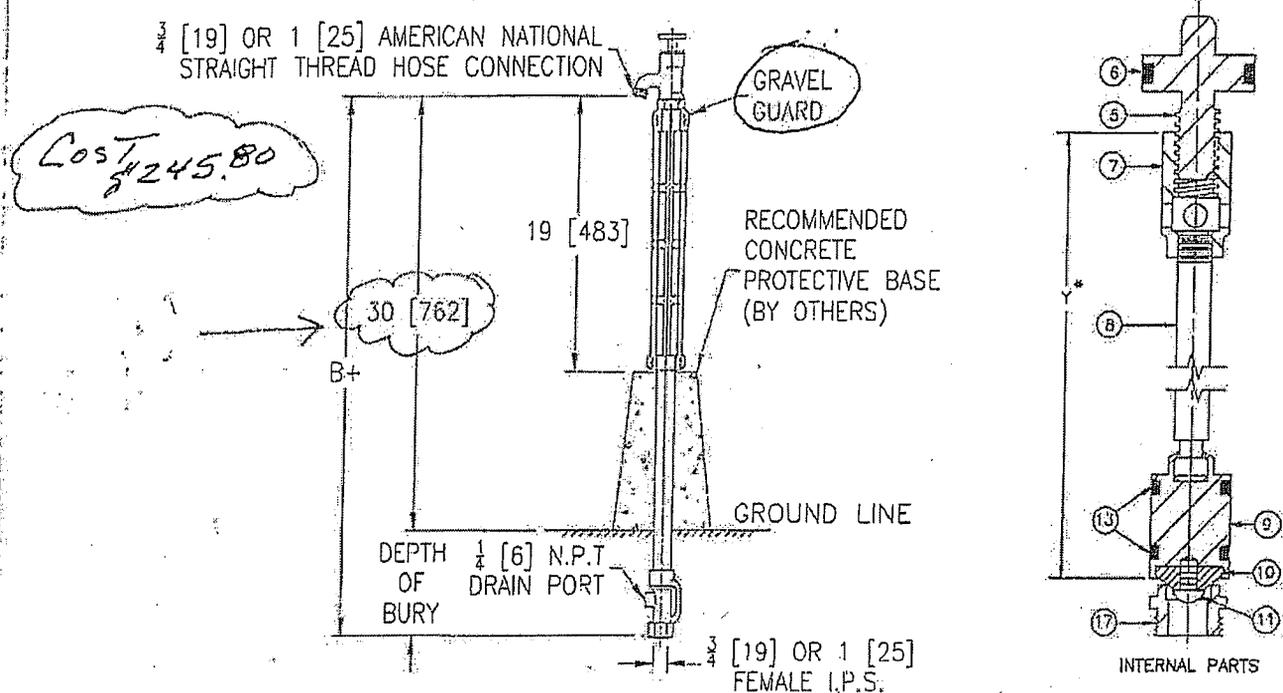
LABOR MANHOURS: 436.03



Z1385
POST HYDRANT
Exposed Head, Non-Freeze

SPECIFICATION SHEET
 TAG _____

Dimensional Data (Inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Depth of Bury Feet	B+ Dim. Feet	Approx. Wt. Lbs. [kg]
2 [610]	4-1/2 [1372]	25 [11]
3 [914]	5-1/2 [1676]	29 [13]
4 [1219]	6-1/2 [1981]	33 [15]
5 [1524]	7-1/2 [2286]	37 [17]
6 [1829]	8-1/2 [2591]	41 [19]
7 [2134]	9-1/2 [2896]	45 [20]
8 [2438]	10-1/2 [3200]	49 [22]
9 [2743]	11-1/2 [3505]	54 [24]
10 [3048]	12-1/2 [3810]	58 [26]

ENGINEERING SPECIFICATION: ZURN Z1385 Exposed, non-freeze post hydrant. Complete with galvanized steel casing and cast aluminum casing guard, all bronze interior parts, bronze seat and replaceable seat washer, and non-turning operating rod with free-floating compression closure valve with 3/4 [19] or 1 [25] connection. Operating key included. Hydrant is equipped with a tapped 1/4 [6] drain port in valve housing.

Note:

1. 'B' dim. based on outlet connection 30 [762] above ground.
2. **IMPORTANT** Hydrant must be opened one turn minimum to seal drain port during use.
3. ** Non-Freeze feature will not automatically function when (-VB suffix) vacuum breaker is specified. The vacuum breaker must be manually tripped to facilitate drainage of hydrant.

PARTS LIST

Item	Name	Quan.
5	Operating Screw	1
6	Q-Ring	1
7	Operating Coupling	1
8	Operating Rod	1
9	Washer Guide	1
10	Washer (neoprene)	1
11	Screw	1
13	Q-Ring	2
17	Removable Seat	1

OPTIONS (Check/specify appropriate options)

CONNECTION TYPE:

- 3/4 [19] Hose Connection ← 3/4"
 1 [25] Hose Connection

SUFFIXES

- ___ -BC Bronze Casing
 ___ -RK Hydrant Parts Repair Kit
 ___ -VB 3/4 [19] Adapter Vacuum Breaker**
 ___ -WH Wheel Handle

REV. J	DATE: 3/2/11	C.N. NO. 120961
DWG. NO. 58882		PRODUCT NO. Z1385

*WHEN ORDERING REPLACEMENT PARTS SPECIFY Y DIM.

ZURN INDUSTRIES, L.L.C. • SPECIFICATION DRAINAGE OPERATION • 1801 Pittsburgh Ave. • Erie, PA 16514.
 Phone: 814/455-0921 • Fax: 814/454-7929 • World Wide Web: www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED • 3544 Nashua Drive • Mississauga, Ontario L4V1L2 • Phone: 905/405-8272 Fax: 905/405-1292

Date: 27-Jun-13

OM-52C ASI -033 Plumbing
Year 2013 Quarter 2
Unit Detail Report with Subcontracted Lines

Prepared By:
Arturo Gonzalez
ECM International

Line Number		Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P	Ext. Total Incl. O&P (Sub-Contracted)
22 Plumbing							
220523201110		Valves, bronze, angle, rising stem, threaded, 150 lb., 2"	1.00	Ea.	\$764.87	764.87	0.00
221113741900		Pipe, plastic, PVC, 1-1/2" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	1.00	L.F.	\$10.38	10.38	0.00
221113741910		Pipe, plastic, PVC, 2" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10'	1.00	L.F.	\$12.20	12.20	0.00
22 Plumbing Subtotal						787.45	0.00
31 Earthwork							
312316130060		Excavating, trench or continuous footing, common earth, 1/2 C.Y., excavator, 1' to 4' deep, excludes sheeting or dewatering	1.00	B.C.Y.	\$5.71	5.71	0.00
312323131600		Backfill, bulk, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller	1.00	E.C.Y.	\$2.69	2.69	0.00
31 Earthwork Subtotal						8.40	0.00



Change Order Review/ RFP Review

Project: Sun Metro Operations & Maintenance Facility

Contractor: Urban Associates

Reviewer: Arturo A. Gonzalez

Checked By: AAG

Company: ECM International, Inc.

Date: July 31, 2013

Review of Contract Proposal in Response to Owner Request

Request for Proposal No. : RFP No. OM-052B (Documents Attached)

Background Information:

SM requested to have power outlets installed at the Bus
Parking area to vacuum bus interiors. See weekly
construction meeting minutes of Feb. 5, 2013.

Purpose of Request for Proposal:

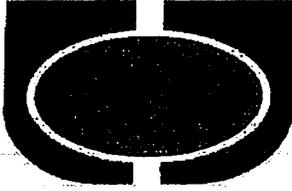
Provide price to install power outlets as described in
ASI-033 & further discussed with CoEP-ENG, ALV and ECM

Independent Cost Opinion:

\$158,348.10 (See the following pages)

Conclusion:

The final negotiated amount is \$67,302.00



Urban Associates Inc.
1400 Geronimo Drive El Paso, TX 79925

June 17, 2013

Serial Letter No. 171-066

ECM International, Inc.
404 Executive Center Blvd.
El Paso, Texas 79902

Attn: Arturo A. Gonzalez, RA
Project Manager;
Gilbert Guerrero, City of El Paso
Project Manager

Re: Sun Metro Operations &
Maintenance Facility Project
RFP OM-052B/ASI-033 Electrical Only

*NEED POWER &
COSTS (FUT. CHANGES)
NOT COMMIT & PER STRAIN
6/28/2013
REVISED PRICE
\$ 67,302.00
OK*

[Signature]
7/31/2013

Gentlemen:

Enclosed is our response to RFP OM-052B/ASI-033 Electrical only for the above referenced project. This scope only covers the electrical portion of the work and will take approximately 21 days from approval to complete

The cost of the electrical work only for existing and new electrical per ASI-033/OM-052B is Thirty Seven Thousand, Seven Hundred and Thirty (\$37,730.00) Dollars. This item concurrently delays the project with other items associated with OM-052 and ASI-033.

If you have any questions or comments regarding this issue please contact me at your earliest convenience at the Office (915) 772-8857 or on my cellular phone (915) 526-7878. Thank you.

Sincerely,

[Signature]

Joseph Riccillo, MBA, PMP, LEED AP
Project Manager
Urban Associates Inc.
cc: Michael Montes, President

Urban Associates Inc.

Change Order Request Breakdown
 Case No. RFP-OM-052B Electrical
 for Canopy bases existing and new

Sun Metro Operations & Maintenance Facilities Project
 City of El Paso

Description	Hours	Rate	Labor	Materials	Equipment	Subcontract	Total
1) Electrical for canopy bases			\$ -	\$ -	\$ -	\$ 30,365.59	\$ 30,365.59
2) Disposal of LEED Materials/Trash			\$ 240.00	\$ 2,025.00	\$ -	\$ -	\$ 2,265.00
As Built Documentation/debris Removal			\$ 70.00	\$ -	\$ -	\$ -	\$ 70.00
Direct Cost of Proposal Preparation	2	\$150	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal			\$ 310.00	\$ 2,025.00	\$ -	\$ 30,365.59	\$ 32,700.59
Labor Burden (35%)							\$ 108.50
Markup at 15%							\$ 4,921.36
Total Credit							\$ 8,772.57
							\$ 37,730.45

As-built documentation can be reduced by 1/2 if CADD files are furnished by Architect
 Paint of Columns is excluded at this time, paint type and color will need to be identified to quote this scope

Schedule Fragnet Activities
 OM-052B Install Electrical

21 Days

This item directly impacts the critical path (concrete paving) day for day. Delay can be combined concurrently for all RFP OM-52 items

56,080.33
 56,080.33
 9,415.33
 58,523.83
 4,921.36
 8,772.57
 37,730.45
 67,302.40
 \$67,302.00
 CA

Beltran Electrical Contractor, Inc.

860 Kastrin St. El Paso TX 79907 915-599-8777 Fax 915-599-1330

Project Name: **SUN METRO** Date: **7/9/2013**
 Contractor Name: **URBAN** Change Proposal No. **36**
 Descrip of Change: **OM-52 Receptacle And future Conduits for canopies**

Time Extention 2 weeks

Item #	Description	Quantity	Unit	Unit Cost	Labor with Burden	Material & Equipment	Subcontract
1	ELECTRICIAN	92.00	HR	\$ 37.69	\$ 3,467.48		
2	APPRENTICE	92.00	HR	\$ 18.86	\$ 1,735.12		
3	SKILLED LABOR	32	HR	\$ 12.83	\$ 410.56		
4	BACKHOE OPERATOR	35	HR	\$ 16.38	\$ 573.30		
5	ADMINISTRATIVE	1	HR	\$ 75.00	\$ 75		
6	QFCI	96	FT	\$ 35.00		\$ 3,360.00	
7	3/4 pvc--3/10	25,102	FT	\$ 1.52		\$ 38,155.04	
8	Incidentals(tape, wirenuts, fuel etc)	1	FT	\$ 689.00		\$ 689.00	
9	Cleanup	1	FT	\$ 300.00		\$ 300.00	
10			yd			\$ -	
11			yd			\$ -	
12						\$ -	
13						\$ -	
14						\$ -	
15						\$ -	
16						\$ -	
17						\$ -	
18						\$ -	
19						\$ -	
20						\$ -	
21						\$ -	
22						\$ -	
23						\$ -	
24						\$ -	
25						\$ -	
26						\$ -	
27						\$ -	
28						\$ -	
29						\$ -	
30						\$ -	
31						\$ -	
32						\$ -	
33						\$ -	
34						\$ -	
35						\$ -	
36						\$ -	
SUBTOTAL					\$ 6,261.46	\$ 42,504	\$ -
Spec 2.5.2.4					15%	\$ 939.22	\$ 6,375.61
					0%	\$ -	\$ -
					0.00%	\$ -	\$ -
TOTAL FOR THIS CHANGE PROPOSAL *						\$	56,080.33


 By: Gabriel Perez
 perez96gt@gmail.com



Beltran Electrical Contractor, Inc.

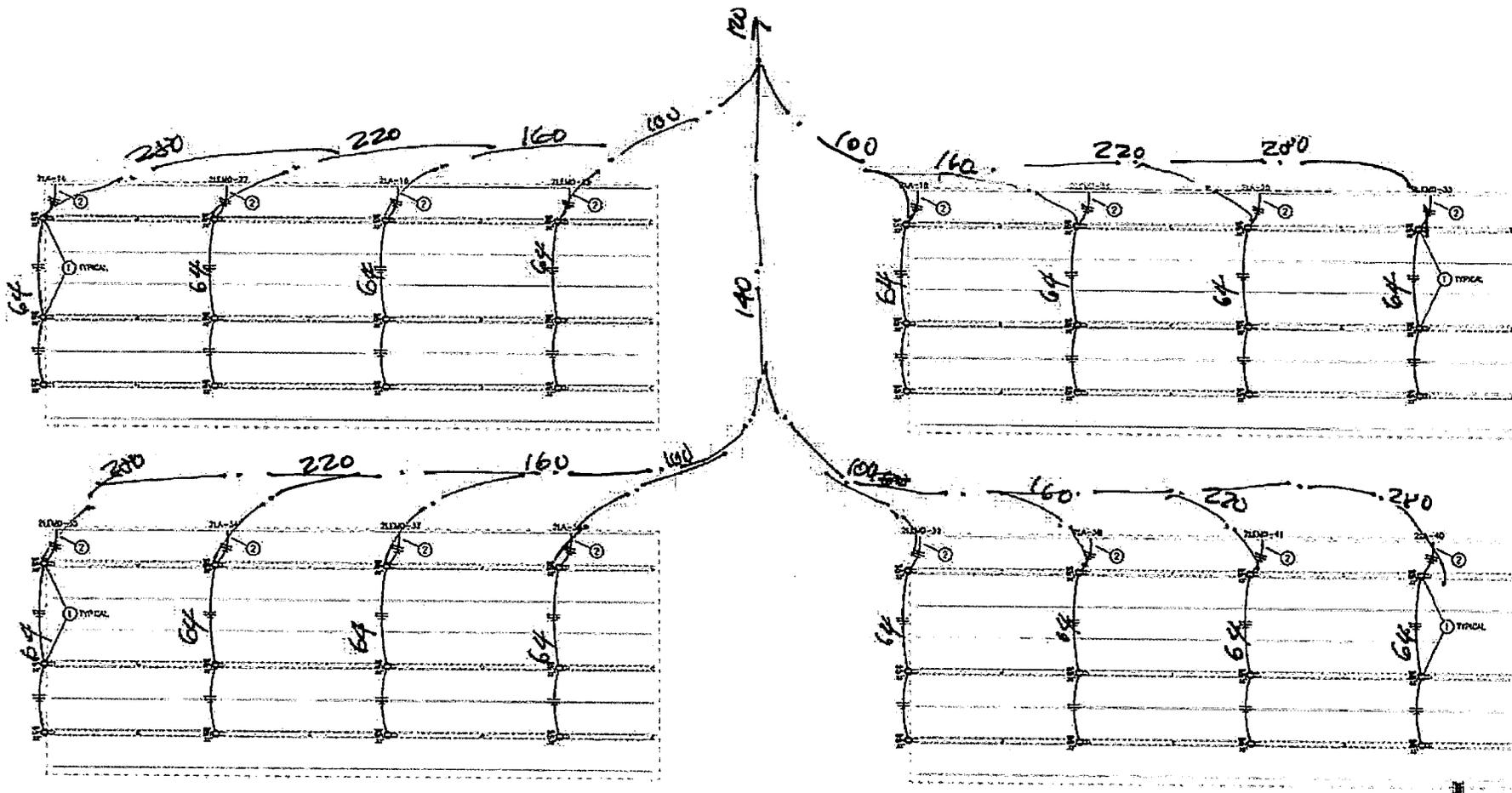
860 Kastrin St. El Paso TX 79907 915-599-8777 Fax 915-599-1330

Project Name: SUN METRO Date: 5/21/2013
 Contractor Name: URBAN Change Proposal No. 36
 Description of Change: ASI-033 Receptacle And future Conduits for canopies

Item #	Description	Quantity	Unit	Unit Cost	Labor with Burden	Material & Equipment	Subcontract
1	ELECTRICIAN	92.00	HR	\$ 37.69	\$ 3,467.48		
2	APPRENTICE	92.00	HR	\$ 18.86	\$ 1,735.12		
3	SKILLED LABOR	32	HR	\$ 12.83	\$ 410.56		
4	BACKHOE OPERATOR	35	HR	\$ 16.38	\$ 573.30		
5	ADMINISTRATIVE	1	HR	\$ 75.00	\$ 75		
6	GFCI	96	FT	\$ 35.00		\$ 3,360.00	
7	3/4 pvc-3#12	9,800	FT	\$ 1.06		\$ 10,388.00	
8	3/4pvc with pull string	11,000	FT	\$ 0.35		\$ 3,850.00	
9	1" pvc with pullstring	4,302	FT	\$ 0.46		\$ 1,978.92	
10			yd			\$ -	
11			yd			\$ -	
12						\$ -	
13						\$ -	
14						\$ -	
15						\$ -	
16						\$ -	
17						\$ -	
18						\$ -	
19						\$ -	
20						\$ -	
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
SUBTOTAL					\$ 6,261.46	\$ 19,577	\$ -
Overhead					10%	\$ 626.15	\$ 1,957.69
Profit					5%	\$ 344.38	\$ 1,076.73
P&P Bond					1.75%	\$ 126.56	\$ 395.70
TOTAL FOR THIS CHANGE PROPOSAL *						\$ 30,365.59	

DECLINED

By: 
 gabriel.perez@gmail.com



⊕ BUS PARKING CANOPY POWER PLAN

Scale: 1" = 20'-0"

9,400 LF 3/4" PVC

1,600 LF 3/4" GALV

3# 10 CONDUCTORS = 33,000 LF

KEYED NOTES - THIS SHEET ONLY

- ① PROVIDE "IN USE" TYPE WEATHERPROOF COVER. MOUNT RECEPTACLE AT 32" A.F.F. PROVIDE 2 STRAPS AS RECOMMENDED BY THE MANUFACTURER TO PROVIDE TRUSS AND SAFE SUPPORT.
- ② 2#10, 1#10 GND IN 3/4" C. USE #10 CONDUCTORS IN 3/4" C THROUGHOUT.

KEYED NOTES: THIS SHEET ONLY

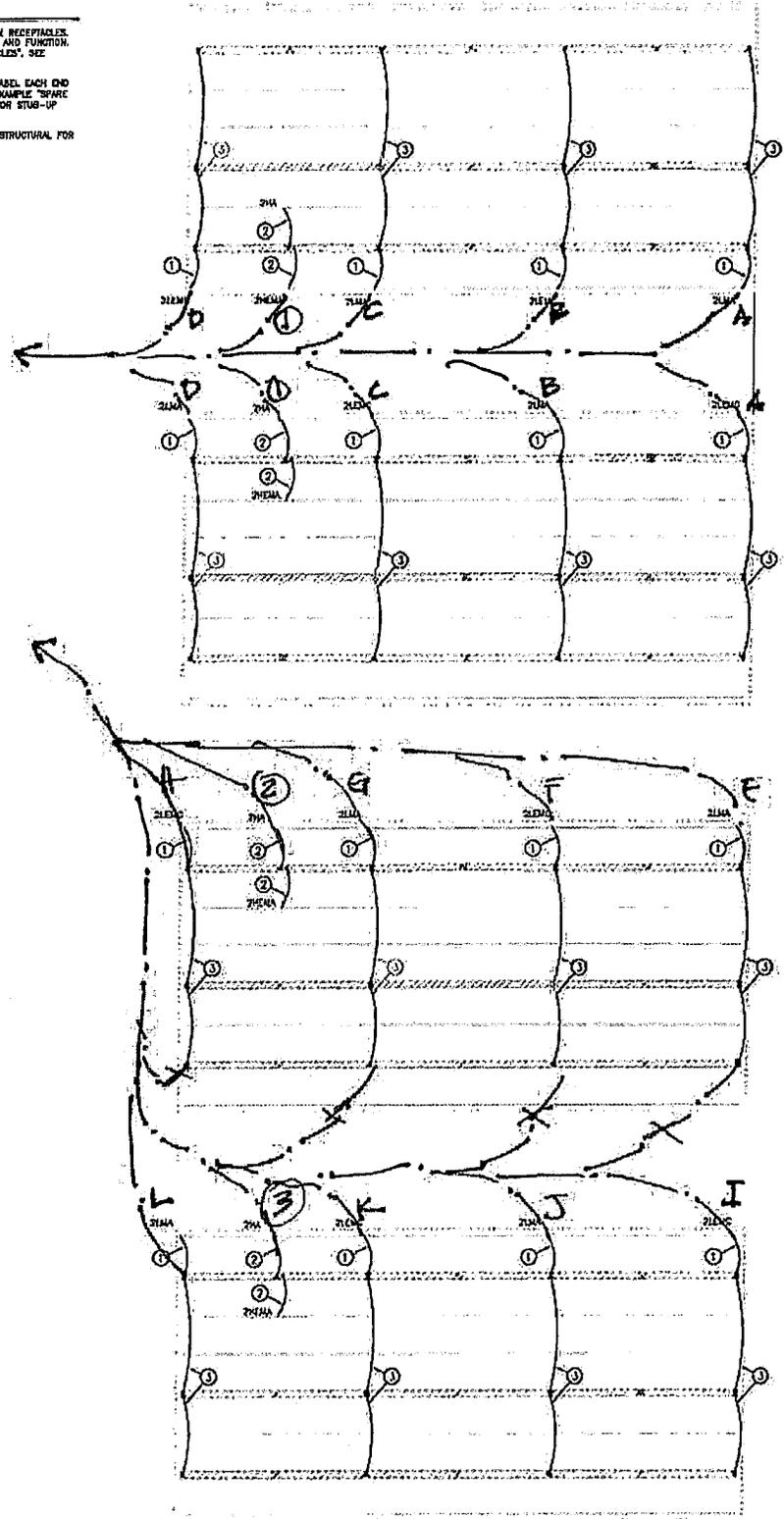
- ① 3/4" C WITH PULLSTRING TO PANEL INDICATED FOR FUTURE CANOPY DUPLEX RECEPTACLES. LABEL EACH END PERMANENTLY FOR EASY IDENTIFICATION OF OPPOSITE END AND FUNCTION. EXAMPLE "SPARE CONDUIT TO PANEL '21HA' FOR FUTURE DUPLEX RECEPTACLES". SEE STRUCTURAL FOR STUB-UP INSTALLATION DETAILS. CAP END AT CANOPY.
- ② 1" C WITH PULLSTRING TO PANEL INDICATED FOR FUTURE CANOPY LIGHTS. LABEL EACH END PERMANENTLY FOR EASY IDENTIFICATION OF OPPOSITE END AND FUNCTION. EXAMPLE "SPARE CONDUIT TO PANEL '21HA' FOR FUTURE CANOPY LIGHTS". SEE STRUCTURAL FOR STUB-UP INSTALLATION DETAILS. CAP END AT CANOPY.
- ③ 3/4" C WITH PULLSTRING FOR FUTURE CANOPY DUPLEX RECEPTACLES. SEE STRUCTURAL FOR STUB-UP INSTALLATION DETAILS. CAP BOTH ENDS.

300 X 16 = - 4,800 LF 3/4" ELT
 - 3,600 LF 3/4" PVC
 - 25,200 LF # 10 CONDUCTORS.

1,960 LF 1" CONDUIT

1,200 1" ELT

760 1" PVC



Date: 28-Jun-13

OM-052B Canopies Electric
Year 2013 Quarter 2
Unit Detail Report with Subcontracted Lines

Prepared By:
Arturo Gonzalez
ECM International

Line Number	  	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P	Ext. Total Incl. O&P (Sub-Contracted)
26 Electrical							
260519200300		Armored cable, copper, solid, 600 V, 3 conductor, #10, BX, exposed	1.00	C.L.F.	\$357.12	357.12	0.00
260533135020		Electric metallic tubing (EMT), 3/4" diameter, to 15' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	1.00	L.F.	\$3.37	3.37	0.00
260533135040		Electric metallic tubing (EMT), 1" diameter, to 15' high, incl 2 terminations, 2 elbows, 11 beam clamps, and 11 couplings per 100 LF	1.00	L.F.	\$4.45	4.45	0.00
260539303250		PVC conduit, schedule 40, 3/4" diameter, in concrete slab, incl terminations, fittings and supports	1.00	L.F.	\$2.22	2.22	0.00
260539303270		PVC conduit, schedule 40, 1" diameter, in concrete slab, incl terminations, fittings and supports	1.00	L.F.	\$2.69	2.69	0.00
26 Electrical Subtotal						369.85	0.00
31 Earthwork							
312316143100		Excavating, chain trencher, utility trench, common earth, 40 H.P., 16" wide, 24" deep, operator riding, includes backfill	1.00	L.F.	\$1.07	1.07	0.00
312316143100		Excavating, chain trencher, utility trench, common earth, compaction with vibratory plate, add	1.00		\$0.37	0.37	0.00
31 Earthwork Subtotal						1.44	0.00



Sun Metro Operations Maintenance Facility Project



Change Order

- Includes
 - Construction cost for installation of concrete foundations and columns for future bus canopies. Including mechanical and electrical services to the columns.
- Allows for
 - Future canopies to be installed without disruption to bus operations.
 - Save money now rather than having to remove concrete pavement in the future and disrupt bus traffic flow.



- Original Contract Amount: \$27,435,000.00
- Net Change by Previous Change Orders: \$852,588.60
- Amount of this Construction Change Order: \$367,788.00
- New Amended Contract Amount: \$28,655,376.60
- Change Order Percentage: 4.45%
- Additional 95 days will be added for this change order
- Current Substantial Completion Due Date: December 26, 2013

Questions/Comments