



CITY OF SANTA ANA

PUBLIC WORKS AGENCY

CONTRACT CHANGE ORDER

Project Number Project No. 11-6413 SA-5 Vault Modifications

Change Order Number 3

To T.E. Roberts Inc.

Contractor

You are hereby directed to make the herein changes from the plans and specifications or do the following described work not included in the plans and specifications on this contract.

NOTE: THIS CHANGE ORDER IS NOT EFFECTIVE UNTIL APPROVED BY THE CITY COUNCIL OR CITY MANAGER.

Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Change requested by PUBLIC WORKS AGENCY

EXTRA WORK AT AGREED PRICE

DESCRIPTION	Unit	Qty	Total (Estimate)
Engineered Shoring Plans for Options	1	LS	\$7,290.00
Submission & Additional MWD requests & Shoring Requirements	1	LS	\$6,500.00
Additional 45 Degree Bends A & B	1	LS	\$8,174.60
Additional Fabrication Per MWD Change	1	LS	\$9,320.00
Abandon Previously Installed Pipeline	1	LS	\$5,500.00
Remove & Dispose of Conflicting Concrete	1	LS	\$31,239.00
Remove & Dispose of Conflict Vault	1	LS	\$12,500.00
Line-Item Adjustments to accommodate balance of work			
BI#1 Mobilization	1	LS	\$15,000.00
BI#21 Traffic Control	1	LS	\$3,600.00
BI#27 Dewatering	1	LS	\$4,000.00
Credit for BI# Construct 4" Bottom Drain Blow-off Assembly	1	LS	(\$22,300.00)
TOTAL			\$80,823.60

This is the final cost and full compensation including all labor and materials to complete the modifications for the SA 5 Vault and Pipeline project. No further compensation will be considered after this final Change Order.



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Change requested by PUBLIC WORKS AGENCY

The compensation both time and cost set forth in this change order comprises the total compensation due the Contractor, all Subcontractors, and all Suppliers for all work performed per this change order, including impact on unchanged work. By signing this change order, the Contractor acknowledges and agrees on behalf of himself, all Subcontractors, and all Suppliers, that the stipulated compensation includes payment for all work contained in this change order, plus all payment for interruption of schedules, extended field overhead, home office overhead, profit, delay, and all impact, ripple effect or cumulative impact on all other work under this Contract. The signing of this change order constitutes full mutual accord and satisfaction for all changes and work performed on this project, and that the time and cost paid per this change order constitutes the total equitable adjustments owed the Contractor, all Subcontractors, and all Suppliers for all work performed on this project. The Contractor on behalf of himself, all Subcontractors, and all Suppliers agrees to waive all rights, without exception or reservation of any whatsoever to file any further claim related to this project.

TOTAL COST THIS CHANGE ORDER: DECREASE \$ INCREASE \$ 80,823.60

By reason of this order the **CONTRACT TIME** completion will be adjusted as follows: 0 non-compensable working days

We the undersigned contractor have given careful consideration to the change proposed and hereby agree, if this proposal is approved, that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all service necessary for the work above specified, and will accept as full payment therefor the prices shown above.

Accepted, Date 9/27/2023 Contractor T.E. Roberts Inc.

By GIL HARTWELL Title PROJECT MANAGER

Approval recommended by PUBLIC WORKS AGENCY EXECUTIVE DIRECTOR Date

Approved by CITY MANAGER Date



Proposal

DATE:7/26/2023

T.E. Roberts, Inc.

17771 Mitchell North
Irvine, CA 92614
Phone (714) 669-0072 Fax (714) 200-0241

TO:

Edward A. Torres - Senior Engineer

Public Works Agency | CIP Delivery Engineering
20 Civic Center Plaza, M-36 | Santa Ana, CA 92702
(Office) 714-647-5018
(Mobile) 714-719-0013

FOR: Items to complete work and MWD Requests

ATTN: Mike / Emin/ E. Torres

DESCRIPTION	Unit	Qty	Total (Estimate)
Engineered Shoring Plans for Options	1	LS	\$7,290.00
Submission & Additional MWD requests & Shoring Requirements	1	LS	\$6,500.00
Additional 45 Degree Bends A & B	1	LS	\$8,174.60
Additional Fabrication Per MWD Change	1	LS	\$9,320.00
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Line-Item Adjustments to accommodate balance of work			
BI# 1 Mobilization	1	LS	\$15,000.00
BI#21 Traffic Control	1	LS	\$3,600.00
BI#27 Dewatering	1	LS	\$4,000.00
Credit for BI# Construct 4" Bottom Drain Blow-off Assembly	1	LS	(\$22,300.00)
TOTAL			\$80,823.60



CITY OF SANTA ANA

PUBLIC WORKS AGENCY

CONTRACT CHANGE ORDER

Project Number Project No. 11-6413 SA-5 Vault Modifications

Change Order Number **4**

To T.E. Roberts Inc.

Contractor

You are hereby directed to make the herein changes from the plans and specifications or do the following described work not included in the plans and specifications on this contract.

NOTE: THIS CHANGE ORDER IS NOT EFFECTIVE UNTIL APPROVED BY THE CITY COUNCIL OR CITY MANAGER.

Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Change requested by

PUBLIC WORKS AGENCY

EXTRA WORK AT AGREED PRICE

1. Cost of additional work for the installation of the 18" pipe into the existing MWD vault. Discovered after excavating and removing concrete around the existing pipe coming out of the MWD vault that the pipe was in very poor condition and would need to be removed and a new spool made to transition to the City of Santa Ana pipe. Due to time needed to meet and agree with MWD on new spool and fabrication of new spool, it was determined for safety concerns to remove all shoring and backfill and compact the trench with CAB and pave trench and fully open the roadway. TE Roberts mobilized to site on 12/08/2023 to start work the work and completed the work on 1/16/2024. This work is detailed with Change Order Request #11. (6) days extension requested.

TOTAL AGREED PRICE = \$55,773.01

2. Cost for additional work to Mobilize and redesign and fabricate the 18" CMLCSP SA 5 spool into the MWD vault. Installation of the spool, additional welding, additional confined space, additional ground water mitigation, additional traffic control, additional restoration and all material and labor to complete the installation of the new 18" CMLCSP into the MWD vault and connection to the City of Santa Ana pipe. This work is detailed in Change Order request #11. (5) days extension requested.

Total Agreed Price=\$102,761.64

TOTAL AGREED PRICE = \$158,534.65



CITY OF SANTA ANA

PUBLIC WORKS AGENCY

CONTRACT CHANGE ORDER

Project Number Project No. 11-6413 SA-5 Vault Modifications Change Order Number 4

To T.E. Roberts Inc. Contractor

You are hereby directed to make the herein changes from the plans and specifications or do the following described work not included in the plans and specifications on this contract.

NOTE: THIS CHANGE ORDER IS NOT EFFECTIVE UNTIL APPROVED BY THE CITY COUNCIL OR CITY MANAGER.

Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Change requested by PUBLIC WORKS AGENCY

The compensation both time and cost set forth in this change order comprises the total compensation due the Contractor, all Subcontractors, and all Suppliers for all work performed per this change order, including impact on unchanged work. By signing this change order, the Contractor acknowledges and agrees on behalf of himself, all Subcontractors, and all Suppliers, that the stipulated compensation includes payment for all work contained in this change order, plus all payment for interruption of schedules, extended field overhead, home office overhead, profit, delay, and all impact, ripple effect or cumulative impact on all other work under this Contract. The signing of this change order constitutes full mutual accord and satisfaction for all changes and work performed on this project, and that the time and cost paid per this change order constitutes the total equitable adjustments owed the Contractor, all Subcontractors, and all Suppliers for all work performed on this project. The Contractor on behalf of himself, all Subcontractors, and all Suppliers agrees to waive all rights, without exception or reservation of any whatsoever to file any further claim related to this project.

TOTAL COST THIS CHANGE ORDER: DECREASE \$ INCREASE \$ 158,534.65

By reason of this order the **CONTRACT TIME** completion will be adjusted as follows: 11 non-compensable working days

We the undersigned contractor have given careful consideration to the change proposed and hereby agree, if this proposal is approved, that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all service necessary for the work above specified, and will accept as full payment therefor the prices shown above.

Accepted, Date 4/29/2024 Contractor T.E. Roberts Inc.

By GIL HARTWELL Title PROJECT MANAGER

Approval recommended by _____ Date _____
PUBLIC WORKS AGENCY EXECUTIVE DIRECTOR

Approved by _____ Date _____
CITY MANAGER

Change Order Basis:

Santa Ana Request : T.E. Roberts had to hold installation of vault piping connections due to unforeseen conditions at vault connection location. Crew (at the City's direction) shifted focus on discovery for information to provide to Metropolitan water in order to propose revised connections. T.E. Roberts (at the City's direction) pulled all shoring, backfilled, and demobilized from project site. Site was base paved in order to secure while MWD option was selected.

Cost Basis (1.1A):

12/08/2023 (Friday) Vault Work: \$12,116.35
12/13/2023 (Wednesday) Vault Work : \$9,610.38
12/14/2023 (Thursday) Vault Work: \$22,039.47
12/15/2023 (Friday) Demobilization: \$3,747.97
01/04/2024 (Thursday) SR-5 Vault: \$3,092.19
01/16/2024 (Tuesday) Demobilization: \$5,166.65

Change Order Request:

Cost Total
Item 1.1 Request \$55,773.01

(Supporting Documents Previously Provided to Santa Ana)



Change Order Request No. 11

17771 Mitchell North
Irvine, CA 92614
Phone (714) 669-0072 Fax (714) 200-0241

Date: 01/29/2024

SA-5 MWD Pipe Changes #2

To: **City of Santa Ana**
20 Civic Center Plaza
Santa Ana, CA 92702
Attn: Mike Ortiz/Emin Kayiran, AKMCE

#5866 SA-5 Vault Modifications, Project No. 11-6413

DESCRIPTION	QUANTITY	UOM	Unit \$	TOTAL
12/08/2023 (Friday) Vault Work - Arrived on job site and set up traffic control with a lane closure. Removed fence panels around shield box. Removed top plate to access shield. Used hydro-vac truck to remove sludge and water in order to remove blind screw plug. Re-checked diameter of pipe, length, and O.D. of pipe stub out of vault. Re-checked traffic control, sandbags, signs, tarp and spoil piles. Took down lane closure. Re-plated shield box and placed fence around. Plugged pipe. Started demo but was shut down due to possible reengineering. Cleaned up and secured job site. Took down the remaining traffic control.	1	LS	12,116.35	12,116.35

ITEM 1.1 WORK STOPPAGE TO ACCOMMODATE MWD REQUIRED CHANGES

12/13/2023 (Wednesday) Vault Work - Arrived on job site and set up traffic control with a lane closure. Removed fence panels around shield box. Removed steel plate off top of the shield box. Pumped ground water into water truck. Removed blind screw plug from pipe stub. Plugged pipe stub with concrete block and mortar. Removed plates from trench line to remove jacks, base and start backfilling trench. Re-plated trench and shield box. Placed fencing around shield box. Cleaned up and secured job site. Took down traffic control.	1	LS	9,610.38	9,610.38
12/14/2023 (Thursday) Vault Work - Arrived on job site and set up traffic control with a lane closure. Removed fencing around shield box. Pumped water down to place sand around pipe stub. Pulled shield boxes out, backfilled with base and compacted. Pulled plates around shield box and trench. Backfilled trench with sand & base and compacted. Prepped trench and shield box area to temp pave. Loaded up and hauled K-rails, shield boxes, plates and fencing off of street. Cleaned up and secured job site. Took down traffic control. Demobilized equipment back to yard.	1	LS	22,039.47	22,039.47
12/15/2023 (Friday) Demobilization - Arrived on job site and loaded traffic control. Moved equipment and traffic control out of the yard. Hauled off material from yard. Covered piles of spoils with plastic and sandbags. Demobilized awaiting further instruction. Cleaned up and secured job site.	1	LS	3,747.97	3,747.97
01/04/2024 (Thursday) SR-5 Vault - Arrived on job site and set up traffic control with multiple lane closures to access water vault. Set up tripod with wrench and gas monitor. Once inside of vault took multiple measurements of fittings and vault. (Length, width, thickness, vertical and horizontal, etc.) Cleaned up and secured job site. Took down traffic control.	1	LS	3,092.19	3,092.19

ITEM 1.1 WORK STOPPAGE TO ACCOMMODATE MWD REQUIRED CHANGES

01/16/2024 (Tuesday) Demobilization - Arrived on job site. Loaded up and hauled off job container, sand, base, and temp ac. Took traffic control back to T.E.R. yard. Picked up loader and returned to T.E.R. yard. Cleaned up and secured job site.	1	LS	5,166.65	5,166.65
		Days Ext. (6)	TOTAL	\$55,773.01

T.E. Roberts, Inc.

BY: _____
T.E. Roberts, Inc.

ACCEPTED BY: _____
Authorized Representative

THANK YOU FOR YOUR BUSINESS!

Change Order Basis:

Santa Ana Request : Following submittal and approval of redesigned connection, TER ordered materials and will re-mobilize. Five working days are proposed to complete the revised scope of work which includes:

Mobilization

Excavation & Shoring

Installation of Redesigned Piping

Additional Welding

Additional Confined Space Entry

Additional Ground Water Mitigation

Additional Traffic Control

Additional Restoration

Cost Basis (1.2A):

See work sheet & WCP Quote

Change Order Request:

Estimated Cost Total

Item 1.2 Request \$102,761.64

Combined Change Order Request:

Item 1.1 Request \$55,773.01

Item 1.2 Request \$102,761.64

Total \$158,534.65

ITEM 1.2A REVISED MWD CONNECTION



COR	#	Job#	Santa Ana - SA-5 Vault Modifications Name on Paperwork
		5866	
		Days Ext:	

DATE:

LOCATION:

DETAILS:

(Day TBD) - Estimated labor, equipment, and material to:
Remobilize
Shore & Excavate
Install New Spool and make connection

TYPE										TOTAL(S)
	RATE/HR	QTY	REG AMT	OT RATE	QTY	OT AMT	DT RATE	QTY	DT AMT	TOTAL
LABOR										
FOREMAN/OPERATING ENG.	40.00	139.22	40.00	5,568.80	208.83	-	278.44	-	-	5,568.80
L4 - PIPELAYER/Asphalt wkr	40.00	107.11	40.00	4,284.40	160.67	-	214.22	-	-	4,284.40
L1 - LABORER ()	40.00	105.80	40.00	4,232.00	158.70	-	211.60	-	-	4,232.00
TRUCK DRIVER ()	40.00	106.22	40.00	4,248.80	159.33	-	212.44	-	-	4,248.80
EQPT OPERATOR ()	40.00	134.81	40.00	5,392.40	202.22	-	269.62	-	-	5,392.40
L5 - WELDER	16.00	106.67	16.00	1,706.72	160.01	-	213.34	-	-	1,706.72
	216.00	216.00			-			-	-	
LABOR TOTAL										\$25,433.12
EQUIPMENT										
SERVICE TRUCK (1)	52.02	40.00	2,080.80							2,080.80
PICKUP TRUCK/VAN	43.51	40.00	1,740.40							1,740.40
ARROW BOARD (3)	17.50	120.00	2,100.00							2,100.00
FLATBED TRUCK	47.21	8.00	377.68							377.68
BACKHOE	86.98	40.00	3,479.20							3,479.20
LOADER	121.95	40.00	4,878.00							4,878.00
DUMP TRUCK, Bobtail	66.11	40.00	2,644.40							2,644.40
TRENCH SHIELD (2)	37.50	80.00	3,000.00							3,000.00
WELDING TRUCK	47.25	16.00	756.00							756.00
WATER TRUCK	67.14	40.00	2,685.60							2,685.60
CONFINED SPACE EQPT	37.10	16.00	593.60							593.60
CRASH BARRELS (6)	11.25	240.00	2,700.00							2,700.00
K-RAIL (4)	7.56	160.00	1,209.60							1,209.60
DELINEATORS/ SIGNS (31)	0.35	1,240.00	434.00							434.00
TRAFFIC CONES (63)	0.35	2,520.00	882.00							882.00
VACTOR TRUCK	293.48	20.00	5,869.60							5,869.60
FENCE PANELS (10)	1.95	400.00	780.00							780.00
SKID STEER	48.32	8.00	386.56							386.56
ASPHALT ZIPPER	98.38	8.00	787.04							787.04
VIBRATORY ROLLER	35.59	8.00	284.72							284.72
PAVING MACHINE	243.29	8.00	1,946.32							1,946.32
EQPT TOTAL										\$39,615.52
5%										
MATERIAL										
West Coast Vault Piping										
	Sub Total		Tax		AMOUNT		15%		TOTAL	
	27,460.00		2,402.75		29,862.75		4,479.41		34,342.16	
MATERIAL TOTAL										\$34,342.16
SUB TOTAL										\$99,390.80
1% - Bond										\$993.91
6% Fuel Charge										\$2,376.93
GRAND TOTAL										\$102,761.64

ITEM 1.2A REVISED MWD CONNECTION



2180 N. Locust Ave.
Rialto, CA 92377
Phone: 909-356-5670
Fax: 909-356-4229

Quote

Customer: T.E. Roberts

Date: 1/16/2024

Project: SA-5 VAULT MODIFICATIONS

Phone: 714-788-0680

email: ghartwell@teroberts.com

Valid for: 15 days

Salesperson		P.O. Number	Availability	F.O.B.	
Steve hernandez			8-10 WEEKS, ARO & APPROVED SUBMITTALS	JOBSITE	
Quantity	Unit	Description		Unit Price	Line Total
1	LS	FURNISH VAULT PIPING MODIFICATIONS AS HIGHLIGHTED BY CUSTOMER(submittal drawings) TO INCLUDE: 14" OD X .375W STEEL PIPE EPOXY X EPOXY L&C W/ ATTACHED 18" X 14" CONC REDUCER X CL F FF RING(SPECIAL SERRATIONS, CL F FF RING ATTACHED TO LOOSE 18" X 14" CONC REDUCER & 4" WIDE X .375 14.125" ID WELD BAND(NO HH) ATTACHED Per submittals to be approved before fabrication can commence. 1 each 18" CL F FF RING FLANGE SHIP LOOSE 5% X-RAY & INSPECTION NOTE: Specifications OD Sys 09900-12 NS-1F Surface Prep Prep Per 5 Near White Blast Cleaning PPG Amercoat 68HS (2.0 to 3.0 DFT) PPG Amerlock 2 (2.0 to 3.0 DFT) PPG Amershield VOC (5.0 to 6.0 DFT) Follow Masking Instruction Per Drawing Specifications CS-IE Shop ID Surface Prep Per SSPC-SP-5 3.0 to 4.0 MIL PROFILE Chesterton ARC PW Epoxy Lining 11.0 DFT to 15.0 DFT) Chesterton ARC PW Epoxy Lining 11.0 DFT to 15.0 DFT) Total 26.00 (+/- 4 DFT)		\$27,460.00	\$27,460.00
Notes:				Subtotal	\$ 27,460.00
				Tax Rate	Not Included
				Total Tax	\$ -
				Total	\$ 27,460.00

Signature: _____ **Date:** _____

** Work associated with this quote cannot proceed until signed copy is received*