

**R2BUILD dba R2B Engineering Inc** 23441 S. Pointe Dr., #280 Laguna Hills, CA 92653 License #1031564 A, B DIR 1000059338

	CHANG	SE ORDER R	EQUEST	r		No.	003
	City of Commerce 2535 Commerce Way Commerce, CA 90040 Attn:Chidi Ugwueze posed Change:		Date Project Name Project # Owner's Project #: Contract Number:		Ele	11/19 ectrical for	0/2019 CNG 19020
This seque	cost proposal is based soley on the usual cost elements, such a cost of Work, delays, disruptions, rescheduling, extended over nd all of these and related items of cost prior to any final settlems.	as labor, material, earhead, accelleration	quipment and and/or impact	normal mark up			
			QTY	UNIT		RATE	SUB TOTAL
Per	the attached itemization Install Approx. 35' of retaining wall (not to exc Negotiated Credit	reed 5' high)	1 -1	LS LS	\$ \$	18,254.74 3,254.74	18,254.74 (3,254.74)
Tim	e Extensions RequestedTBD (Work) Days		Net Add	or Deducts	\$		15,000.00
Subr By:	mitted by: R2B Engineering Shiva KR	Accepted by:	By:				Date
Rev	iewed & Approved by:						
By:	**	-					
Dy. Title	e:	Date					

R2BUILD Date: 6/21/19

Job#: CNG

File#:

Prepared by: Shiva

23441 S. Pointe Dr., #280,

Laguna Hills, CA

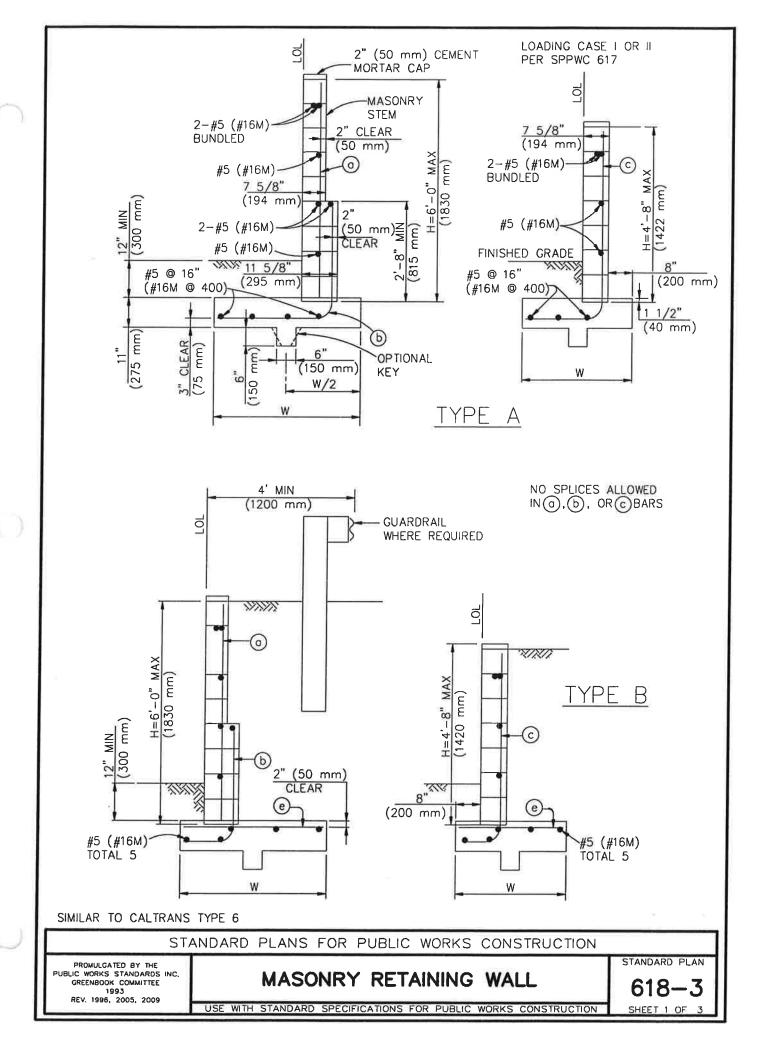
Tel: (714) 609-7625 FAX: (714) 455-0712

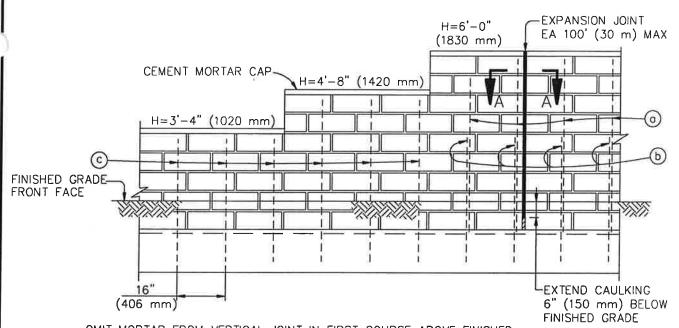
Job Title: Power for CNG Fueling Station

Reference:

Additional Scope of work per the attached Sketch

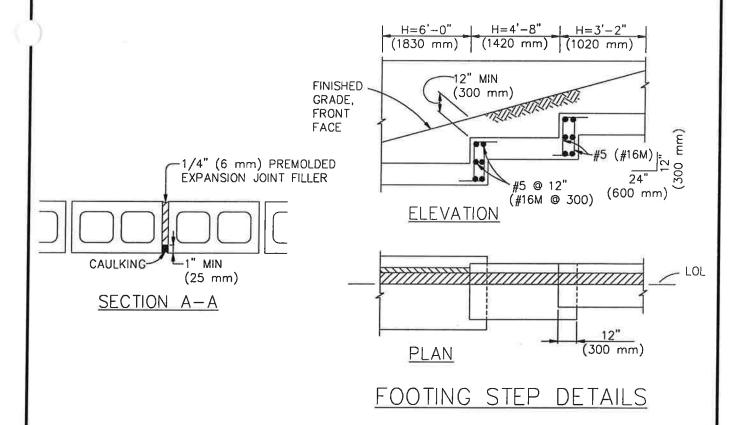
		COST BREAKDOWN		
		MATERIAL/ DIRECT EXPENSES		
Qty	Units	Description	Unit	Total
	1 LS	Concrete	1650.00	\$1,650
	1 LS	Rebar	440.00	\$440
	1 LS	CMU	600.00	\$600
	1 LS	Grout	300.00	\$300
	1 LS	Misc	200.00	\$200
				\$(
		Tax (9.75%)	9.75%	\$311
		SUB-TOTAL		\$3,501
		LABOR		
Qty	Units	Classification	Rate	Total
	) MH	Superintendent/ Foreman	95.00	\$(
	O MH	Electrician	125.00	\$(
	MH	Pipe Fitter	108.75	\$(
112		Laborer	87.75	\$9,828
112	Z IVIII	SUB-TOTAL	67.73	\$9,828
	•	EQUIPMENT	1	
Qty	Units	Description	Rate	Total
	) Wk	Skidsteer	2250.00	\$(
	1 Wk	Excavator	1250.00	\$1,250
	1 LS	Dumpsters	785.00	\$1,230 \$785
-	LDO	Sales Tax	9.75%	\$198
		SUB-TOTAL	9.13/0	\$2,233
		SOD-TOTAL		Ψ2,23.
		SUBTOTAL (Material, Labor, Equipment)		\$15,562
		Overhead & Construction Fee	15%	\$2,334
		Performance & Payment Bond	2%	\$357
				\$18,254





OMIT MORTAR FROM VERTICAL JOINT IN FIRST COURSE ABOVE FINISHED GRADE AT 2'-8" (813 mm) CENTERS FOR WEEP HOLES. FILL ALL CELLS WITH GROUT.

# ELEVATION



MASONRY RETAINING WALL

STANDARD PLAN

STANDARD PLAN

618-3

SHEET 2 OF 3

### TYPE A WALL

DESIGN H	3'-4" (1020)	4'-0" (1220)	4'-8" (1420)	5'-4" (1630)	6'-0" (1830)
W	3'-2" (1000 mm)	3'-6" (1100)	3'-10" (1200)	4'-2" (1300)	4'-6" (1400)
@BARS		-		#5 @ 16" (#16M @ 406)	#5 @ 16" (#16M @ 406)
(b) BARS	-		( <del></del>	#5 @ 16" (#16M @ 406)	#5 @ 16" (#16M @ 406)
©BARS	#5 @ 16" (#16M @ 406)	#5 @ 16" (#16M @ 406)	#5 @ 16" (#16M @ 406)		

# TYPE B WALL

DESIGN H	3'-4"	4'-0"	4'-8"	5'-4"	6'-0"
	(1020 mm)	(1220)	(1420)	(1630)	(1830)
W	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"
	(850)	(950)	(1050)	(1150)	(1250)
@BARS			-	#5 @ 15" (#16M @ 375)	#5 @ 15" (#16M @ 375)
(b) BARS	· · · · · · · · · · · · · · · · · · ·		-	#5 @ 15" (#16M @ 375)	#5 @ 15" (#16M @ 375)
© BARS	#5 @ 15" (#16M @ 375)	#5 @ 15" (#16M @ 375)	#5 @ 15" (#16M @ 375)		
@BARS	#5 @ 15"	#5 © 15"	#5 @ 15"	#5 @ 15"	#5 ⊚ 12"
	(#16M @ 375)	(#16м © 375)	(#16M @ 375)	(#16M @ 375)	(#16M ⊚ 300)

DESIGN DATA (SEE SPPWC 617 FOR PCC, STEEL, AND OTHER SOIL DATA)  $f_{m} = 500 \text{ psi (3.5 MPa)}$   $f'_{m} = 1500 \text{ psi (10.5 MPa)}$ 

REQUIRED SOIL BEARING CAPACITY 2000 psf (95 kPa)

## NOTES:

- 1. SEE SPPWC 617 FOR STANDARD WALL DETAILS.
- 2. METRIC REINFORCING BAR SPACING IS IN MILLIMETERS.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN

MASONRY RETAINING WALL