

BIDDER'S SUBMITTAL

Company: Macro-Z-Technology Company

Total Base Bid (numbers): \$ 20,378,661.00

**PROPOSAL, SPECIFICATIONS, BOND AND AFFIDAVIT FOR CONSTRUCTION OF THE
TORRANCE TRANSIT PARK AND RIDE REGIONAL TERMINAL, FEAP 764
B2017-39**

Honorable Mayor and Members
of the Torrance City Council
Torrance, California

Members of the Council:

In accordance with the Notice Inviting Bids pertaining to the receiving of sealed proposals by the City Clerk of the City of Torrance for the above titled improvement, the undersigned hereby proposes to furnish all Work to be performed in accordance with the Plans, Specifications, Standard Drawings, and the Contract Documents prepared by Frank Webb Architects Inc. for the lump sum bid as set forth in the following schedules.

BASE BID SCHEDULE

Item #	PROJECT MANUAL DIVISION	SECT. E SPECIAL PROVS.	DESCRIPTION	QUAN	UNIT	UNIT COST	TOTAL COST
GENERAL REQUIREMENTS (DIVISION 1 AND SPECIAL PROVISIONS, PART 1 - WITH DESIGNATED BID ITEMS)							
1	01 7123	2-9.1	Permanent Survey Markers	12	EA	\$ 1,000	\$ 12,000
2	01 7123	2-9.2	Survey Service	1	LS	\$ 65,000	\$ 65,000
3	01 3216	6-1.4	CPM Baseline Schedule	1	LS	\$ 10,500	\$ 10,500
4	-	6-1.6	4-Week Look Ahead Schedules (Weekly)	1	LS	\$ 40,000	\$ 40,000
5	-	6-1.7	CPM Schedule Updates (Monthly)	1	LS	\$ 18,000	\$ 18,000
6	-	6-6.3	Payment for Delays	20	DAY	\$ 2,000	\$ 40,000
7	-	7-8.6.2	NPDES / BMP Measures	1	LS	\$ 72,000	\$ 72,000
8	-	7-8.6.3	SWPPP / NOI Preparation	1	LS	\$ 4,000	\$ 4,000
9	-	7-8.6.3	SWPPP/WDID Permit	1	LS	\$ 550	\$ 550
10	-	7-8.6.3	SWPPP/Annual Report/Notice of Termination Preparation/Submittal	1	LS	\$ 550	\$ 550

Item #	PROJECT MANUAL DIVISION	SECT. E SPECIAL PROVS.	DESCRIPTION	QUAN	UNIT	UNIT COST	TOTAL COST
11	-	7-10.2	Traffic Control	1	LS	\$ 41,000	\$ 41,000
12	01 5813	7-15	Project Signs and Identification	1	LS	\$ 9,100	\$ 9,100
13	-	7-15	Portable Changeable Message Signs	2	EA	\$ 17,000	\$ 34,000
14	-	8	Facilities & Site Utility Vehicles for Agency Personnel	1	LS	\$ 92,000	\$ 92,000
15	-	9-3.4	Mobilization	1	LS	\$ 400,000	\$ 400,000
16	-	9-3.5	Demobilization	1	LS	\$ 100,000	\$ 100,000
REGIONAL TERMINAL SITE AND FACILITIES							
17	DIV 3	-	Concrete	1	LS	\$ 870,000	\$ 870,000
18	DIV 4	-	Masonry	1	LS	\$ 1,147,000	\$ 1,147,000
19	DIV 5	-	Metals - Structural & Architecturally Exposed Steel, Decking, Metal Pan Stairs and Miscellaneous Metals	1	LS	\$ 2,510,000	\$ 2,510,000
20	DIV 6	-	Wood and Plastics	1	LS	\$ 95,000	\$ 95,000
21	DIV 7	-	Thermal and Moisture Protection	1	LS	\$ 1,015,000	\$ 1,015,000
22	DIV 8	-	Doors, Door Hardware, Windows & Storefronts	1	LS	\$ 675,000	\$ 675,000
23	DIV 9	-	Finishes	1	LS	\$ 1,390,000	\$ 1,390,000
24	DIV 10	-	Specialties	1	LS	\$ 510,000	\$ 510,000
25	DIV 11	-	Equipment (N.I.C. Sections 11 5200 and 11 5233 and Exhibit 11 5233A)	1	LS	\$ 6,200	\$ 6,200
26	DIV 12	-	Furnishings	1	LS	\$ 193,000	\$ 193,000
27	DIV 14	-	Conveying Equipment	1	LS	\$ 99,000	\$ 99,000
28	DIV 21	-	Fire Suppression Sprinklers	1	LS	\$ 70,000	\$ 70,000
29	DIV 22	-	Plumbing	1	LS	\$ 420,000	\$ 420,000
30	DIV 23	-	Heating Ventilation & Air Conditioning	1	LS	\$ 450,000	\$ 450,000
31	DIV 26	-	Electrical	1	LS	\$ 2,130,000	\$ 2,130,000
32	DIV 28	-	Electronic Safety Security and Fire Alarm	1	LS	\$ 225,000	\$ 225,000

Item #	PROJECT MANUAL DIVISION	SECT. E SPECIAL PROVS.	DESCRIPTION	QUAN	UNIT	UNIT COST	TOTAL COST
33	DIV 31	-	Sitework	1	LS	\$ 354,000	\$ 354,000
33A	DIV 31	-	Sitework - Import (Allowance)	250	CY	\$ 15	\$ 3,750
34	DIV 32	-	Exterior Improvements	1	LS	\$ 3,300,000	\$ 3,300,000
35	DIV 33	-	Utilities	1	LS	\$ 92,000	\$ 92,000
OFFSITE IMPROVEMENTS							
C-2014-001 SIGNS AND STRIPING FOR CRENSHAW BOULEVARD							
36	32 1723-1724	314, 317	Signs and Striping Crenshaw Boulevard	1	LS	\$ 47,000	\$ 47,000
ST-1067 STREET WIDENING CRENSHAW BOULEVARD							
37	31 1000	300-1.3	Sawcut Asphalt Paving	737	LF	\$ 5	\$ 3,685
38	31 1000	300-1.3	Sawcut Concrete Paving	167	LF	\$ 5	\$ 835
39	31 1000	300-1.3	208th St. / Crenshaw Sawcut Asphalt Paving	99	LF	\$ 5	\$ 495
40	31 1000	300-1.3	Removal of Concrete & A.C. Pavement, Sidewalks, Curb & Gutter, and Unclassified Materials	14,716	SF	\$ 2	\$ 29,432
41	31 1000	300-1.3	208th St. / Crenshaw Removal of Concrete & A.C. Pavement, Curb & Gutter, and Unclassified Materials	343	SF	\$ 4	\$ 1,372
42	31 1000	300-1.1	Clearing/Grubbing/Rough grade - New sidewalk area	12,836	SF	\$ 1.75	\$ 22,463
43	31 1000	300-1.1	Clearing/Grubbing/Rough grade - Widening Area, incl. subgrade prep	27,100	SF	\$ 3	\$ 81,300
44	31 1000	300-1.1	208th St./ Crenshaw Clearing/Grubbing/Rough grade/Subgrade Prep	37,850	SF	\$ 3	\$ 113,550
45	32 1206	302-1	Cold Milling	10,270	SF	\$ 0.60	\$ 6,162
46	31 2000	300-5.2	Imported Borrow	102	CY	\$ 17.50	\$ 1,785
47	31 2000	301-1	208th St./ Crenshaw Imported Borrow	3,643	CY	\$ 14	\$ 51,002

Item #	PROJECT MANUAL DIVISION	SECT. E SPECIAL PROVS.	DESCRIPTION	QUAN	UNIT	UNIT COST	TOTAL COST
48	32 1313	303-5 301-2	Concrete Paving, Spandrels, Sidewalks, Driveways, Ramps, PCC Join, including CMB	13,940	SF	\$ 11.50	\$ 160,310
49	32 1313	303-5, 301-2	208th St./ Crenshaw. Concrete Paving, Spandrels, Sidewalks, Driveways, Ramps, PCC Join, including CMB	18,018	SF	\$ 11.50	\$ 207,207
50	32 1313	303-5, 301-2	8" Concrete Curb Per SPPCC 120 (8) on CMB	250	LF	\$ 31	\$ 7,750
51	32 1313	303-5, 301-2	208th St./ Crenshaw. 8" Concrete Curb Per SPPCC 120 (8) on CMB	40	LF	\$ 31	\$ 1,240
52	32 1313	303-5, 301-2	8" Concrete Curb w./ 24" Gutter Per Torrance Std T103, on CMB	750	LF	\$ 32	\$ 24,000
53	32 1313	303-5, 301-2	208th St./ Crenshaw. 8" Concrete Curb w./ 24" Gutter Per Torrance Std T103, on CMB	428	LF	\$ 32	\$ 13,696
54	32 1313	303-5, 301-2	Curb Ramp with Detectable Warning Surface, Per SPPWC Std 111 on 4" CMB	7	EA	\$ 2,900	\$ 20,300
55	32 1313	303-5, 301-2	208th St./Crenshaw Curb Ramp with Detectable Warning Surface, Per SPPWC Std 111 on 4" CMB	2	EA	\$ 2,900	\$ 5,800
56	32 1206	302-5, 301-2	10" B-PG64-10 AC Base Paving on 15" CMB	5,150	SF	\$ 12.50	\$ 64,375
57	32 1206	302-5, 301-2	2" C2-PG64-10 AC Overlay	10,270	SF	\$ 2	\$ 20,540
58	32 8400, 9000	308	Landscape & Irrigation	1	LS	\$ 30,000	\$ 30,000
59	-	307	Relocate Existing Streetlighting Poles	6	EA	\$	\$-DELETED
60	-	307	208th St./ Crenshaw. Streetlighting	3	EA	\$ 7,500	\$ 22,500
61	32 1313	303-5	208th St./ Crenshaw. 36" W Concrete Channel Under Sidewalk	30	LF	\$ 360	\$ 10,800

Item #	PROJECT MANUAL DIVISION	SECT. E SPECIAL PROVS.	DESCRIPTION	QUAN	UNIT	UNIT COST	TOTAL COST
62	32 3113	304-3	208th St/Crenshaw Chain Link Fence	62	LF	\$ 76	\$ 4,712
63	32 3113	304-3	208th St/Crenshaw. Chain Link 6 'x 15' swing gate	1	EA	\$ 3,200	\$ 3,200
64	32 1313	207-16, 306	208th St/ 6" PVC Sanitary Sewer	46	LF	\$ 550	\$ 25,300
65	-	207-21.5, 306	208th St./ POC 6" / (E) 18" VCP SEWER in existing street	1	EA	\$ 3,200	\$ 3,200
TS-2014 NEW TRAFFIC SIGNAL AT CRENSHAW BLVD AND TRANSIT WAY							
66	-	307	New Traffic Signal at Crenshaw Blvd & Transit Way	1	LS	\$394,000	\$ 394,000
TS84 200A TRAFFIC SIGNAL MODIFICATION AT CRENSHAW BLVD AND 208TH STREET							
67	-	307	Traffic Signals Modification Plan Crenshaw Blvd & 208th Street	1	LS	\$268,000	\$ 268,000
WP-306 PLAN & PROFILE FOR CRENSAW BLVD WIDENING & TRANSIT CENTER WATER SYSTEM							
68		306	8" DI Pipe, CL 350	1,300	LF	\$ 68	\$ 88,400
69		306	8" Gate Valve	2	EA	\$ 2,000	\$ 4,000
70		306	8" DI Bend	4	EA	\$ 580	\$ 2,320
71		306	12x8x12 DI Tee	3	EA	\$ 750	\$ 2,250
72		306	8" POC in existing Street	3	EA	\$ 13,500	\$ 40,500
73		306	208th Street POC 8"/8" in existing street	1	EA	\$ 2,500	\$ 2,500
74		306	208th St. 8" PVC Pipe	24	LF	\$ 45	\$ 1,080
75		306	208th Street 8" GATE VALVE	1	EA	\$ 1,750	\$ 1,750
76		306	208th Street "8" PIPE CAP/STUB, BLIND FLANGE	1	EA	\$ 300	\$ 300
77		306	6" DI Pipe, CL 350	60	LF	\$ 50	\$ 3,000
78	-	306	6" DI Pipe, CL 350	60	LF	\$	\$-DELETED
79		306	6" Gate Valve	2	EA	\$ 1,400	\$ 2,800
80		306	6" POC in existing Street	2	EA	\$ 12,000	\$ 24,000

Item #	PROJECT MANUAL DIVISION	SECT. E SPECIAL PROVS.	DESCRIPTION	QUAN	UNIT	UNIT COST	TOTAL COST
81		306	6" POC in existing Sidewalk	1	EA	\$2,500	\$ 2,500
82		306	208th Street 6" PVC PIPE	60	LF	\$ 45	\$ 2,700
83		306	208th Street 6" GATE VALVE	2	EA	\$ 1,400	\$ 2,800
84	-	306	6" DI Pipe, CL 350	60	LF	\$	\$ DELETED
85		306	208th Street POC 6"/8" in existing street	1	EA	\$ 2,500	\$ 2,500
86		306	Thrust Block	12	EA	\$ 250	\$ 3,000
87		306	208th Street Thrust Block	7	EA	\$ 150	\$ 1,050
88		306	Air Release Blow Off	2	EA	\$ 4,000	\$ 8,000
89		306	Fire Hydrant Assembly	3	EA	\$ 5,500	\$ 16,500
90		306	Remove Existing Fire Hydrant	2	EA	\$ 4,700	\$ 9,400
C-2015 SIGNAGE AND STRIPING - 208TH STREET							
91	-	314, 317	Signage and Striping - 208th Street	1	LS	\$23,000	\$ 23,000
SL 2015-002 STRET LIGHTING - 208TH STREET							
92	-	307	Ameron 1C1-28 Street Light Pole w/ 1AP8 8' Mast Arm & 107 Watt Led Luminaire	7	EA	\$14,000	\$ 98,000
SS-386 SANITARY SEWER - 208TH STREET							
93	-	Per Std.	Manhole Type "D" Frame & cover per CSD. Std. No. S-a-204 & S-a-228	1	EA	\$ 10,000	\$ 10,000
94	-	Per Std.	Manhole per SPPWC Std. Plan No. 200	3	EA	\$ 7,800	\$ 23,400
95	-	306	6" VCP WYE (6"x8")	6	EA	\$ 40	\$ 240
96	-	306	8" VCP, Trenching per City of Torrance Std. plan T116 and bedding per City of Torrance Std. plan T204	703	LF	\$ 40	\$ 28,120
97	-	306	6" VCP, Trenching per City of Torrance Std. plan T116 and bedding per City of Torrance Std. plan T204.	198	LF	\$ 57	\$ 11,286

Item #	PROJECT MANUAL DIVISION	SECT. E SPECIAL PROVS.	DESCRIPTION	QUAN	UNIT	UNIT COST	TOTAL COST
98	-	306	8" VCP Cap	1	EA	\$ 19	\$ 19
99	-	306	6" VCP Cap	6	EA	\$ 19	\$ 114
ST-1066 STREET IMPROVEMENTS - 208TH STREET							
100	-	300-1.3.2	Sawcut & Removal of A.C. Pavement and Unclassified Materials	10,910	SF	\$ 5.50	\$ 60,005
101	-	300-1	Removal of Fence & post	840	LF	\$ 6.50	\$ 5,460
102	-	300-1	Temporary Removal/Replacement of Property line Chainlink Fence & Gate	786	LF	\$ 67	\$ 52,662
103	-	300-1.1	Clearing/Grubbing/Rough grade/Demolition	1	LS	\$ 23,500	\$ 23,500
104	-	300-5.2	Import Roadway Fill, delivered to site.	10,000	CY	\$ 14	\$ 140,000
105	-	305.2	Import - Process and compacted in place	10,000	CY	\$ 4	\$ 40,000
106	-	303-6.1, 301-2	11 in Thick Concrete Pavement on CMB	44,947	SF	\$ 9	\$ 404,523
107	-	303-5.1, 301-2	8" CF Concrete Curb & 24" Gutter per SPPWC Standard 120-2 type A2-8 & City of Torrance Std. T102 on 8" CMB base	1,605	LF	\$ 32	\$ 51,360
108	-	800-1	Parkway per landscape plans	2,798	SF	\$ 7	\$ 19,586
109	-	303-5.1, 301-2	3 1/2" Thick Concrete Sidewalk per City of Torrance standard T103 on CMB	3,277	SF	\$ 11.50	\$ 37,685.50
110	-	303-5.1, 301-2	Construct Concrete Driveway with Depressed Sidewalk per City of Torrance Standard T-W5 T-105, case 1 w/ ADA Ramps @ Drives on CMB	2,028	SF	\$ 13	\$ 26,364
111	-	303-5.1, 301-2	Construct longitudinal concrete gutter per SPPWC 122 on CMB	496	SF	\$ 16	\$ 7,936
112	-	303-5.1, 301-2	Curb with Depressed Access for Wheelchair per ADA Requirements on CMB	55	LF	\$ 29	\$ 1,595

Item #	PROJECT MANUAL DIVISION	SECT. E SPECIAL PROVS.	DESCRIPTION	QUAN	UNIT	UNIT COST	TOTAL COST
113	-	302-5.1	8" A.C. Machine Berm	203	LF	\$ 12	\$ 2,436
114	-	302-5, 301-2	4 in Thick A.C. Pavement on CMB	2,931	SF	\$ 7.50	\$ 21,982.50
WP-301 WATER PLAN AND PROFILE - 208TH STREET							
115	-	306	8" DI Pipe, CL 350	915	LF	\$ 68	\$ 62,220
116	-	306	6" DI Pipe, CL 350	262	LF	\$ 63	\$ 16,506
117	-	306	8" Gate Valve	15	EA	\$ 2,000	\$ 30,000
118	-	306	Fire Hydrant Assembly	5	EA	\$ 5,500	\$ 27,500
119	-	306	6" DI, 90° Elbow	1	EA	\$ 400	\$ 400
120	-	306	8" DI, 90° Elbow	1	EA	\$ 550	\$ 550
121	-	306	8"x8"x6" M.J Tee	9	EA	\$ 750	\$ 6,750
122	-	306	Thrust Block	1	LS	\$ 1,100	\$ 1,100
123	-	306	2" Meter & 2" PVC Service Line w/ Connection to 8" DIP	6	EA	\$ 4,700	\$ 28,200
124	-	306	6" Cap w/Mega Lug & Blow-off	6	EA	\$ 1,600	\$ 9,600
125	-	306	8"x6" Reducer	1	EA	\$ 450	\$ 450
126	-	306	12" Hot Tap Assembly	1	EA	\$ 7,500	\$ 7,500
127	-	308-6	90 Day Plant Establishment and Landscape Maintenance Period	1	LS	\$ 4,300	\$ 4,300
128	-	-	Utility Coordination Allowance	1	ALW	\$225,000	\$225,000

TOTAL BASE BID PRICE \$ 20,378,661.00
(Figures)*

TOTAL BASE BID PRICE: Twenty million three hundred seventy-eight thousand six hundred sixty-one
(Words)*

***BASE BID MAY BE REJECTED IF TOTAL IS NOT SHOWN IN FIGURES AND WORDS.**

B2017- 39

ADDITIVE BID ITEM 25A: The City requests a bid price to furnish and install a Video Wall Display as described in Project Manual (Volume 2) Section 11 5233 and in Exhibit 11 5233A.

ADDITIVE BID ITEM B2017- 39

Item #	PROJECT MANUAL DIVISION	SECT. E SPECIAL PROVS.	DESCRIPTION	QUAN	UNIT	UNIT COST	TOTAL COST
25A	DIV 11	-	Equipment (ONLY Section 11 5233 and Exhibit 11 5233A)	1	LS	\$ 198,100	\$ 198,100

ADDITIVE BID ITEMS 25B THROUGH 25F: The City requests prices for the following additive bid items as described in the City's response to RFI 9c.

Item #	PROJECT MANUAL DIVISION	SECT. E SPECIAL PROVS.	DESCRIPTION	QUAN	UNIT	UNIT COST	TOTAL COST
25B	11 5200	-	Training Room and Conference Room AV Systems	1	LS	\$ 170,000	\$ 170,000
25C	11 5200	-	Paging Systems	1	LS	\$ 97,000	\$ 97,000
25D	11 5200	-	Television Systems	1	LS	\$ 11,700	\$ 11,700
25E	11 5200	-	Conference Room Digital Media Receptacles and Control	1	LS	\$ 11,500	\$ 11,500
25F	11 5200	-	AV Annual Maintenance	5	YR	\$ 4,000	\$ 20,000

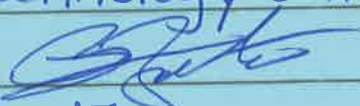
The contract will be awarded to the lowest responsive bidder based on the TOTAL BASE BID PRICE.

BIDDER'S SUBMITTAL (Continued) B2017- 39

The undersigned has read the contract and taking no exception, furthermore agrees to enter into and execute a contract, with necessary bonds, at the unit prices set forth herein and in case of default in executing such contract, with necessary bonds, the check or bond accompanying this bid and the money payable thereon shall be forfeited thereby to and remain the property of the City of Torrance.

The above unit prices include all work appurtenant to the various items as outlined in the Specifications and all work or expense required for the satisfactory completion of said items. In case of discrepancies between unit prices and totals, the unit prices shall govern.

The undersigned declares that it has carefully examined the full-size 30" x 42" (Transit site) Plans and accompanying 24" x 36" (Offsite Improvement) Plans, the Specifications (Volume 1) and Project Manual (Volume 2) and Contract Documents, and has investigated the site of the work and is familiar with the conditions thereon.

Contractor: Macro-Z-Technology Company
Date: 11/21/2017 By:  Bryan J. Zatica
Contractor's State License No. 561313 Class A, B, HazCert
Contractor's DIR Registration No. : 1000000232
Address: 841 E. Washington Avenue, Santa Ana, CA 92701
Phone: (714) 564-1130
Email: estimating@mztco.com
Fax: (714) 564-1144

ACKNOWLEDGMENT OF ADDENDA RECEIVED – B2017-39

The Bidder must acknowledge the receipt of addenda by placing an "X" by each addendum received.

Addendum No. 1 X

Addendum No. 2 X

Addendum No. 3 X

Addendum No. 4 X

Addendum No. 5

Addendum No. 6

Addendum No. 7

Addendum No. 8

Addenda will be issued only by posting to the project's website listed in the Notice Inviting Bids. It is the Bidder's sole responsibility to visit the project's website to obtain and administer any Addendum related to this bid. An Addendum must be acknowledged above by a bidder in its submitted form of Proposal.

If an addendum or addenda have been issued by the City and not noted above as being received by the Bidder, the Bid Proposal may be rejected.



Bidder's Signature
Bryan J. Zatica, President

11/21/2017
Date

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained therein.

Macro-Z-Technology Company

Bidder



By Bryan J. Zatica, President

11/21/2017

Date

******* Submit this executed form with the bid *******

**Please fill out and submit the
"Acknowledgment of Addenda Received" form
provided in Section C of the Specifications.**

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 2 and accept all conditions contained therein.

Macro-Z-Technology Company

Bidder



By Bryan J. Zatica, President

11/21/2017

Date

******* Submit this executed form with the bid *******

**Please fill out and submit the
"Acknowledgment of Addenda Received" form
provided in Section C of the Specifications.**

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 3 and accept all conditions contained therein.

Macro-Z-Technology Company

Bidder



By Bryan J. Zatica, President

11/21/2017

Date

******* Submit this executed form with the bid *******

**Please fill out and submit the
"Acknowledgment of Addenda Received" form
provided in Section C of the Specifications.**

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 4 and accept all conditions contained therein.

Macro-Z-Technology Company

Bidder


By Bryan J. Zatica, President

11/21/2017

Date

******* Submit this executed form with the bid *******

**Please fill out and submit the
"Acknowledgment of Addenda Received" form
provided in Section C of the Specifications.**

CONTRACTOR'S AFFIDAVIT

STATE OF CALIFORNIA }

COUNTY OF Orange }

B2017-39

Bryan J. Zatica, being first duly sworn, deposes and says:

1. That he is the President
Title
of Macro-Z-Technology Company
(Name of Partnership, Corporation, or Sole Proprietorship)

hereinafter called "Contractor," who has submitted to the City of Torrance a proposal for the Construction of TORRANCE TRANSIT PARK AND RIDE REGIONAL TERMINAL, FEAP 764, B2017-39;

2. That said proposal is genuine; that the same is not sham; that all statement of facts therein are true;
3. That such proposal was not made in the interest or behalf of any person, partnership, company, association, organization or corporation not named or disclosed;
4. That the Contractor did not, directly or indirectly, induce, solicit or agree with anyone else to submit a false or sham bid, to refrain from bidding, or to withdraw the bid, to raise or fix the bid price of the Contractor or anyone else, or to raise or fix any overhead, profit or cost element of the Contractor's price or the price of anyone else; and did not attempt to induce action prejudicial to the interest of the City of Torrance, or of any other bidder, or anyone else interested in the proposed contract;
5. That the Contractor has not in any manner sought by collusion to secure for itself an advantage over any other bidder or to induce action prejudicial to the interests of the City of Torrance, or of any other bidder or of anyone else interested in the proposed contract;
6. That the Contractor has not accepted any bid from any subcontractor or materialman through any bid depository, the bylaws, rules or regulations of which prohibit or prevent the Contractor from considering any bid from any subcontractor or materialman, which is not processed through said bid depository, or which prevent any subcontractor or materialman from bidding to any contractor who does not use the facilities of or accept bids from or through such bid depository;

CONTRACTOR'S AFFIDAVIT (CONTINUED) - B2017-39


7. That the Contractor did not, directly or indirectly, submit the Contractor's bid price or any breakdown thereof, or the contents thereof, or divulge information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any individual or group of Individuals, except to the City of Torrance, or to any person or persons who have a partnership or other financial interest with said Contractor in its business.

Dated this 21st day of November, 2017.

Subscribed and Sworn to
before me this _____ day
of _____, 2017.

See attached

Notary Public in and for said
County and State.
(Seal)

Macro-Z-Technology Company
(Contractor)

(Title)
Bryan J. Zatica, President

CALIFORNIA JURAT WITH AFFIANT STATEMENT

GOVERNMENT CODE § 8202

- See Attached Document (Notary to cross out lines 1-6 below)
- See Statement Below (Lines 1-6 to be completed only by document signer[s], not Notary)

1 _____
 2 _____
 3 _____
 4 _____
 5 _____
 6 _____

Signature of Document Signer No. 1 *Signature of Document Signer No. 2 (if any)*

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
 County of Orange

Subscribed and sworn to (or affirmed) before me
 on this 21st day of November, 2017,
 by Bryan J Zatica
 (1) _____
 (and (2) _____),
Name(s) of Signer(s)



Place Notary Seal and/or Stamp Above

proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.
 Signature *Violeta Quevedo*
Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

LIST OF SUBCONTRACTORS: B2017-39

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Name Under Which Subcontractor is Licensed: Fence Corp Inc
Subcontractor's Address: 111 N. Main Street, Riverside, CA 92501
Specific Description of Sub-Contract: Fence partial
Subcontract Dollar Value: \$ 318,000
License Number: 886544 CA License Classification/Type: C13, B
DIR Registration Number: 1000006850

Name Under Which Subcontractor is Licensed: ~~KSSV3 Inc. dba Five Star Fence~~ ^{B2}
Subcontractor's Address: ~~13477 Looche Street, Palmdale, CA 91331~~
Specific Description of Sub-Contract: _____
Subcontract Dollar Value: _____
License Number: ~~1022201~~ CA License Classification/Type: ~~C13~~
DIR Registration Number: ~~1000045544~~

Name Under Which Subcontractor is Licensed: Stern Dahl Enterprises, Inc.
Subcontractor's Address: 11861 Bradford St., Sun Valley, CA 91352
Specific Description of Sub-Contract: Striping
Subcontract Dollar Value: \$ 91,900
License Number: 421823 CA License Classification/Type: C32, A, C31
DIR Registration Number: 1000006711

Name Under Which Subcontractor is Licensed: Guiding Star Technologies, Inc.
Subcontractor's Address: 1918 Bel Air Drive, Glendale, CA 91201
Specific Description of Sub-Contract: Low Voltage Partial
Subcontract Dollar Value: \$ 165,000
License Number: 811982 CA License Classification/Type: C7
DIR Registration Number: 1000035579

Name Under Which Subcontractor is Licensed: Intelligent Fire Systems & Solutions, Inc
Subcontractor's Address: 29033 Avenue Sherman, Suite #213, Valencia CA 91355
Specific Description of Sub-Contract: Low Voltage Partial
Subcontract Dollar Value: \$ 35,000
License Number: 995764 CA License Classification/Type: C10
DIR Registration Number: 1000005473

Name Under Which Subcontractor is Licensed: Red Hawk Fire & Security CA LLC
Subcontractor's Address: 2705 Media Center Drive, Los Angeles, CA 90065
Specific Description of Sub-Contract: _____
Subcontract Dollar Value: _____
License Number: 713099 CA License Classification/Type: C16, C10
DIR Registration Number: 1000006467

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B2

Name Under Which Subcontractor is Licensed: ~~Tri Power Electric, Inc.~~

Subcontractor's Address: ~~1211 N. La Loma Circle, Anaheim, CA 92806~~

Specific Description of Sub-Contract: ~~Electrical Partial~~

Subcontract Dollar Value: ~~\$ 2,000,000~~

License Number: ~~723185~~ CA License Classification/Type: ~~C10~~

DIR Registration Number: ~~100001586~~ B2

Name Under Which Subcontractor is Licensed: ~~Circle City Electric, Inc.~~

Subcontractor's Address: ~~18726 Van Buren Blvd, Riverside CA 92508~~

Specific Description of Sub-Contract: ~~Electrical Partial~~

Subcontract Dollar Value: ~~\$ 2,100,000~~

License Number: ~~582166~~ CA License Classification/Type: ~~B, C10~~

DIR Registration Number: ~~100001615~~

Name Under Which Subcontractor is Licensed: New Air, Inc.

Subcontractor's Address: 429 Sierra Street #7, El Segundo CA 90245

Specific Description of Sub-Contract: HVAC

Subcontract Dollar Value: \$ 399,000

License Number: 995201 CA License Classification/Type: C20, C36

DIR Registration Number: 1000019103

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B2

Name Under Which Subcontractor is Licensed: Chapman Air Systems Inc. dba

Subcontractor's Address: 1927 Actonida Plaza Road, Oceanside, CA 92056-6024

Specific Description of Sub-Contract: _____

Subcontract Dollar Value: _____

License Number: 890971 CA License Classification/Type: L20

DIR Registration Number: 1000004711

Name Under Which Subcontractor is Licensed: Paul J. Construction Corp.

Subcontractor's Address: 29521 Ynez Road Temecula CA 92592

Specific Description of Sub-Contract: Plumbing

Subcontract Dollar Value: \$ 301,000

License Number: 865017 CA License Classification/Type: B, C36, C13

DIR Registration Number: 1000033348

B2

Name Under Which Subcontractor is Licensed: Millennium Fire Protection Corp.

Subcontractor's Address: 2950 San Luis Rey Road Oceanside, CA 92058

Specific Description of Sub-Contract: _____

Subcontract Dollar Value: _____

License Number: 864040 CA License Classification/Type: C16

DIR Registration Number: 100003558

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Name Under Which Subcontractor is Licensed: ~~EBERHARD~~ B2

Subcontractor's Address: ~~15220 RAYMERS STREET, MANHATTAN, CA 91405~~

Specific Description of Sub-Contract: _____

Subcontract Dollar Value: _____

License Number: ~~B29087~~ CA License Classification/Type: ~~C39, A, C43, C20,~~
~~C22~~

DIR Registration Number: ~~100000 1523~~

Name Under Which Subcontractor is Licensed: CROWNER STREET METAL PRODUCTS INC

Subcontractor's Address: 14346 E ARROW HWY, BALWIN PARK, CA 91706

Specific Description of Sub-Contract: Sheet Metal

Subcontract Dollar Value: \$ 520,000

License Number: 254429 CA License Classification/Type: C43, C29

DIR Registration Number: 100000 8646

Name Under Which Subcontractor is Licensed: WISS STREET METAL COMPANY B2

Subcontractor's Address: ~~1715 WEST 135TH ST GARDENA, CA 90249~~
aka METAL SKYLIGHT SPECIALTIES

Specific Description of Sub-Contract: _____

Subcontract Dollar Value: _____

License Number: ~~139335~~ CA License Classification/Type: ~~C43, C17~~

DIR Registration Number: ~~100000 486~~

Name Under Which Subcontractor is Licensed: Schindler Elevator Corporation
Subcontractor's Address: 16450 Foothill Blvd Ste 200, Sylmar CA 91342
Specific Description of Sub-Contract: Elevator
Subcontract Dollar Value: \$88,000
License Number: 375733 CA License Classification/Type: C11
DIR Registration Number: 1000012845

Name Under Which Subcontractor is Licensed: A1 Quality Blinds
Subcontractor's Address: 9354 P. Pilo St. San Diego CA 92129
Specific Description of Sub-Contract: Window Blinds
Subcontract Dollar Value: \$ 16,000
License Number: 1009294 CA License Classification/Type: C61/ D52
DIR Registration Number: 1000006500

Name Under Which Subcontractor is Licensed: Fusion Sign & Design Inc.
Subcontractor's Address: 680 Columbia Ave Riverside CA 92507
Specific Description of Sub-Contract: Signs
Subcontract Dollar Value: \$ 366,000
License Number: 894662 CA License Classification/Type: C61/D42, C45
DIR Registration Number: 1000010891 C61/D03

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Name Under Which Subcontractor is Licensed: Hufcor Inc.
Subcontractor's Address: 2380 E Artesia Blvd Long Beach CA 90805
Specific Description of Sub-Contract: operable Partitions
Subcontract Dollar Value: \$ 26,000
License Number: 798710 CA License Classification/Type: C61/D34, C61/D24
DIR Registration Number: 1000008192 C61/D28, C61/D29, B

Name Under Which Subcontractor is Licensed: Global Specialties Direct, Inc.
Subcontractor's Address: 936 61st St. Oakland CA 94608
Specific Description of Sub-Contract: Toilet accessories
Subcontract Dollar Value: \$ 36,000
License Number: 418396 CA License Classification/Type: C61/D29, C61/D34
DIR Registration Number: 1000005991

Name Under Which Subcontractor is Licensed: ^{B2}
~~Preferred construction specialties, Inc.~~
Subcontractor's Address: ~~2841 Saturn street SEC D Brea CA 92821~~
Specific Description of Sub-Contract: _____
Subcontract Dollar Value: _____
License Number: 207596 CA License Classification/Type: ~~C61/D34~~
DIR Registration Number: ~~100000530~~

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Name Under Which Subcontractor is Licensed: SPECIALTY FLOORING INC
dba ACI BUILDERS
Subcontractor's Address: 3517 CAMPBELL ST | RIVERSIDE, CA 92509
Specific Description of Sub-Contract: Flooring Partial
Subcontract Dollar Value: \$22,000
License Number: 93361 CA License Classification/Type: C15
DIR Registration Number: 1000005282 B2

Name Under Which Subcontractor is Licensed: RND CONTRACTORS INC
Subcontractor's Address: 14996 JURUPA AVE, UNIT A FONTANA, CA 92337
Specific Description of Sub-Contract: _____
Subcontract Dollar Value: _____
License Number: 848471 CA License Classification/Type: A-C51
DIR Registration Number: 1000001732

Name Under Which Subcontractor is Licensed: TEAM MANUFACTURING INC B2
Subcontractor's Address: PO Box 307, TREMONTON, UTAH 84337
Specific Description of Sub-Contract: Structural steel Partial
Subcontract Dollar Value: \$2,200,000
License Number: 803470 CA License Classification/Type: C51
DIR Registration Number: ~~100000~~ 1000011619

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Name Under Which Subcontractor is Licensed: JJS Floor covering Inc.
Subcontractor's Address: 4831-A Passons Blvd. Pico Rivera CA 90660
Specific Description of Sub-Contract: Flooring partial
Subcontract Dollar Value: \$ 49,000
License Number: 327775 CA License Classification/Type: C15, C54
DIR Registration Number: 100000 3812

Name Under Which Subcontractor is Licensed: Floor ³² ~~Tek America~~ Inc.
Subcontractor's Address: ~~125 Mercury Circle~~ ~~Permona~~ CA ~~91768~~
Specific Description of Sub-Contract: _____
Subcontract Dollar Value: _____
License Number: ~~553634~~ CA License Classification/Type: C15
DIR Registration Number: ~~100000 1941~~

Name Under Which Subcontractor is Licensed: Floor seal Technology, Inc.
Subcontractor's Address: 1005 Ames Avenue Milpitas CA 95035
Specific Description of Sub-Contract: Moisture Barrier
Subcontract Dollar Value: \$ 36,000
License Number: 412670 CA License Classification/Type: C15
DIR Registration Number: 100000 616

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B2

Name Under Which Subcontractor is Licensed: ~~CG~~ ~~Cherry Company Inc.~~

Subcontractor's Address: ~~25510~~ ~~Avenue~~ ~~Stanford~~ ~~#104~~ ~~Valencia~~ ~~CA~~ ~~91355~~

Specific Description of Sub-Contract: _____

Subcontract Dollar Value: _____

License Number: ~~762715~~ CA License Classification/Type: ~~CA~~ ~~C7~~

DIR Registration Number: ~~1000001543~~

Name Under Which Subcontractor is Licensed: Southcoast Acoustical Interiors, Inc.

Subcontractor's Address: 14980 Hilton Drive Fontana CA 92336

Specific Description of Sub-Contract: Ceiling Partial

Subcontract Dollar Value: \$53,000

License Number: 738787 CA License Classification/Type: C2, C61/D12

DIR Registration Number: 1000001090 C61/D34, C61/D50

Name Under Which Subcontractor is Licensed: Brady Company Los Angeles Inc.

Subcontractor's Address: PO Box 470, Anaheim CA 92815

Specific Description of Sub-Contract: Frame/dry wall / plaster partial

Subcontract Dollar Value: \$1,000,000

License Number: 735258 CA License Classification/Type: B, C2, C9, C33, C35

DIR Registration Number: 1000008620

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B2

Name Under Which Subcontractor is Licensed: CAROLINA STAIR & DECK LLC
 Subcontractor's Address: 3015 106TH ST SOUTH, LAKEWOOD, WA 98499
 Specific Description of Sub-Contract: Metal Deck Partial
 Subcontract Dollar Value: \$ 111,000
 License Number: 903057 CA License Classification/Type: CEI
 DIR Registration Number: 1000053160

B2

Name Under Which Subcontractor is Licensed: MINWAY, INC
 Subcontractor's Address: 8992 JURUPA ROAD, RIVERSIDE, CA 92509
 Specific Description of Sub-Contract: _____
 Subcontract Dollar Value: _____
 License Number: 615472 CA License Classification/Type: C29, 68
 DIR Registration Number: 100000598

Name Under Which Subcontractor is Licensed: PACIFIC STEEL GROUP
 Subcontractor's Address: 4805 MURPHY CANYON RD, SAN DIEGO, CA 92123
 Specific Description of Sub-Contract: Rebar Partial
 Subcontract Dollar Value: \$ 175,000
 License Number: 997000 CA License Classification/Type: CEI
 DIR Registration Number: 1000004101

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B2

Name Under Which Subcontractor is Licensed: Wilson & Hampton Painting Contractors

Subcontractor's Address: PO Box 9949 Anaheim CA 92812

Specific Description of Sub-Contract: _____

Subcontract Dollar Value: _____

License Number: ~~144886~~ CA License Classification/Type: B, C33, C61/031

DIR Registration Number: ~~1000004551~~

B2

Name Under Which Subcontractor is Licensed: Sherrin Glass & Metal Inc.

Subcontractor's Address: 10832 Fyle Street SE Los Alamitos CA 90720

Specific Description of Sub-Contract: _____

Subcontract Dollar Value: _____

License Number: ~~68029~~ CA License Classification/Type: ~~C17~~

DIR Registration Number: ~~1000004408~~

Name Under Which Subcontractor is Licensed: Best Contracting Services Inc.

Subcontractor's Address: 19027 S Hamilton Ave Gardena CA 90248

Specific Description of Sub-Contract: Roof Partial

Subcontract Dollar Value: \$ 227,000

License Number: 456263 CA License Classification/Type: C39, B, A, C43, C17

DIR Registration Number: 100000563

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Name Under Which Subcontractor is Licensed: CE PICKUP COMPANY INC
dba PACIFIC SOUND CONTROL
Subcontractor's Address: 2617 N MAIN ST SUITE 230 SANTA ANA, CA 92705
Specific Description of Sub-Contract: Acoustical wall panel
Subcontract Dollar Value: \$ 13,000
License Number: 647465 CA License Classification/Type: B, C61, D28, C2
DIR Registration Number: 100007590

Name Under Which Subcontractor is Licensed: ALVARO REPAR, INC
Subcontractor's Address: 325 WEST CHANNEL RD BOSTONIA, CA 9450
Specific Description of Sub-Contract: _____
Subcontract Dollar Value: _____
License Number: 890594 CA License Classification/Type: C50
DIR Registration Number: _____

Name Under Which Subcontractor is Licensed: STANTON RESOURCES INC
dba STANTON REINFORCING STEEL
Subcontractor's Address: PO BOX 310189 FONTANA, CA 92331
Specific Description of Sub-Contract: _____
Subcontract Dollar Value: _____
License Number: 68559 CA License Classification/Type: B, C8, C50
DIR Registration Number: 1000000874

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Name Under Which Subcontractor is Licensed: Baker Electric

Subcontractor's Address: Escondido, CA

Specific Description of Sub-Contract: Electrical Partial

Subcontract Dollar Value: \$ 1,900,000

License Number: 161756 CA License Classification/Type: C10, C46

DIR Registration Number: 10000000466

Name Under Which Subcontractor is Licensed: ~~Mel Smith Electric~~ ^{B2}

Subcontractor's Address: ~~Stanton, CA~~

Specific Description of Sub-Contract: ~~Electrical Partial~~

Subcontract Dollar Value: \$

License Number: ~~394777~~ CA License Classification/Type: ~~C10~~

DIR Registration Number: ~~1000001784~~

Name Under Which Subcontractor is Licensed: ~~Cornel Electric~~ ^{B2}

Subcontractor's Address: ~~21625 Prairie Street~~

Specific Description of Sub-Contract: ~~Electric Signal Partial~~

Subcontract Dollar Value: \$ 693,000

License Number: ~~681827~~ CA License Classification/Type: ~~C10~~

DIR Registration Number: ~~1000009203~~

Name Under Which Subcontractor is Licensed: Superior Fire
Subcontractor's Address: Oxnard CA
Specific Description of Sub-Contract: Fire Sprinkler
Subcontract Dollar Value: \$ 63,000
License Number: 911525 CA License Classification/Type: C16
DIR Registration Number: 100006805

Name Under Which Subcontractor is Licensed: Workplace Services
Subcontractor's Address: Escandido, CA
Specific Description of Sub-Contract: Tile partial
Subcontract Dollar Value: \$180,000
License Number: 793563 CA License Classification/Type: C15, C54
DIR Registration Number: 100006879

Name Under Which Subcontractor is Licensed: Asakori
Subcontractor's Address: Lake Elsinore, CA
Specific Description of Sub-Contract: ~~Steel~~ steel partial
Subcontract Dollar Value: \$ 1,700,000
License Number: 858004 CA License Classification/Type: C51
DIR Registration Number: 1000001585

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Name Under Which Subcontractor is Licensed: First Fire Systems
Subcontractor's Address: Los Angeles CA
Specific Description of Sub-Contract: Video wall + AV partial
Subcontract Dollar Value: \$ 500,000
License Number: 541227 CA License Classification/Type: C10 C7 B
DIR Registration Number: 1000005821

Name Under Which Subcontractor is Licensed: ~~LSC Construction~~ ^{B2}
Subcontractor's Address: ~~Perris CA~~
Specific Description of Sub-Contract: ~~Steel partial~~
Subcontract Dollar Value: ~~\$ 1,400,000~~
License Number: ~~898829~~ CA License Classification/Type: ~~A, B~~
DIR Registration Number: _____

Name Under Which Subcontractor is Licensed: DDM Painting
Subcontractor's Address: Orange CA
Specific Description of Sub-Contract: Paint partial
Subcontract Dollar Value: \$ 180,000
License Number: 388648 CA License Classification/Type: C33
DIR Registration Number: 1000011265

Name Under Which Subcontractor is Licensed: New Star International
Subcontractor's Address: Anaheim CA
Specific Description of Sub-Contract: Case work Partial
Subcontract Dollar Value: \$ 92,000
License Number: 969 575 CA License Classification/Type: C6
DIR Registration Number: 1000013503

Name Under Which Subcontractor is Licensed: Southern Counties Quality Masonry
Subcontractor's Address: Santa Ana, CA
Specific Description of Sub-Contract: Masonry
Subcontract Dollar Value: \$ 934,000
License Number: 237043 CA License Classification/Type: C29
DIR Registration Number: 1000008191

Name Under Which Subcontractor is Licensed: Visual Glass
Subcontractor's Address: Granada Hills, CA
Specific Description of Sub-Contract: Glass, glazing, curtain wall
Subcontract Dollar Value: \$ 485,000
License Number: 797980 CA License Classification/Type: C17
DIR Registration Number: 1000007611

Subcontractors listed must be properly licensed under the laws of the State of California for the type of work which they are to perform. Do not list alternate subcontractors for the same work.

Subcontractors that must be listed are those that will perform work in an amount in excess of 1/2 of 1 percent of the total bid or \$10,000, whichever is greater. (Pub Cont Code SS 4100 et seq.)

The Bidding Contractor must include each subcontractor's contract license number (AB 44). An inadvertent error in listing the subcontractor's license number shall not be grounds for filing a bid protest, or grounds for considering the bid nonresponsive, if the corrected contractor's license number is submitted to the public entity by the prime contractor within 24 hours after the bid opening – provided that the corrected license number corresponds to the submitted name and location of the subcontractor.

Name Under Which Subcontractor is Licensed: MSL Electric

Subcontractor's Address: Anaheim CA

Specific Description of Sub-Contract: Electric signal partial

Subcontract Dollar Value: \$ 690,000

License Number: 822 450 CA License Classification/Type: C10

DIR Registration Number: 1000000550

Name Under Which Subcontractor is Licensed: ~~Betoo~~ B2

Subcontractor's Address: ~~Chino CA~~

Specific Description of Sub-Contract: ~~Electrical signal partial~~

Subcontract Dollar Value: _____

License Number: ~~728518~~ CA License Classification/Type: ~~C10 B, A~~

DIR Registration Number: ~~1000004804~~ BA

Name Under Which Subcontractor is Licensed: _____

Subcontractor's Address: _____

Specific Description of Sub-Contract: _____

Subcontract Dollar Value: _____

License Number: _____ CA License Classification/Type: _____

DIR Registration Number: _____

Subcontractors listed must be properly licensed under the laws of the State of California for the type of work which they are to perform. Do not list alternate subcontractors for the same work.

Subcontractors that must be listed are those that will perform work in an amount in excess of 1/2 of 1 percent of the total bid or \$10,000, whichever is greater. (Pub Cont Code SS 4100 et seq.)

The Bidding Contractor must include each subcontractor's contract license number (AB 44). An inadvertent error in listing the subcontractor's license number shall not be grounds for filing a bid protest, or grounds for considering the bid nonresponsive, if the corrected contractor's license number is submitted to the public entity by the prime contractor within 24 hours after the bid opening – provided that the corrected license number corresponds to the submitted name and location of the subcontractor.

REFERENCES (Page 1 of 2) - B2017-39

List work similar in magnitude and degree of difficulty completed by the Contractor within the past three (3) years. Additionally provide other information requested in instructions to bidders section above and the section below.

1. Name (Firm/Agency): U.S. Army Corps of Engineers
Address: U.S. Army Corps of Engineers, 600 Dr. Martin Luther King, Jr. , Louisville, KY
Contact Person: Stuart Royal, Project Engineer Telephone No.: (858) 699-9325
Email Address: Stuart.a.royal@usace.army.mil
Title of Project: Joint Regional Deployment and Processing Center
Project Location: March ARB Base, CA
Duration of Construction: 03/31/2017 - 08/31/2017
Date of Completion: 08/31/2017 Contract Amount: \$ 18,107,237

2. Name (Firm/Agency): Clark Construction Group, LLC
Address: Clark Construction Group, 17900 International Blvd, Suite 400 Seatac, WA 98188
Contact Person: Lou Palandrani, Clark Sr. Vice President Telephone No.: (415) 767-7000
Email Address: Lou.palandrani@clarkconstruction.com
Title of Project: Design Build SEATAC International Arrival Facility - Early Works Project
Project Location: Seattle-Tacoma, International Airport, Seattle, WA
Duration of Construction: 04/24/2015 - 08/31/2017
Date of Completion: 08/15/2017 Contract Amount: \$ 12,351,912

3. Name (Firm/Agency): U. S. Army Corps of Engineers
Address: U.S. Army Corps of Engineers, 11301 Wilshire Blvd, Building 218, Los Angeles, CA
Contact Person: Dina Aman, Project Engineer Telephone No.: (626) 378-2446
Email Address: dina.aman@usace.army.mil
Title of Project: Design Build Renovation of B220 Interactive Medical Center
Project Location: Greater Los Angeles Healthcare Facility, Veterans Administration
Duration of Construction: 09/12/2014 - 08/17/2016
Date of Completion: 08/17/2016 Contract Amount: \$ 3,302,713

4. Name (Firm/Agency): U.S. Army Corps of Engineers
Address: U.S. Army Corps, Sacramento District, 1325 J Street, Sacramento, CA
Contact Person: John Taylor, Project Engineer Telephone No.: (520) 906-7419
Email Address: John.g.taylor@@usace.army.mil
Title of Project: Kern River Ranger District Engine Station Relocation
Project Location: Lake Isabella, CA
Duration of Construction: 07/19/2016 - 10/20/2017
Date of Completion: 10/20/2017 Contract Amount: \$ 7,828,795

REFERENCES (PAGE 2 OF 2) - B2017-39

If Contractor has not performed work for the City of Torrance within the last five (5) years, list all work done within said five years (attach additional sheets if necessary). Note if work was done as subcontractor [include only subcontract amount]:

Work Description & Contract Amount	Agency and Contact Information	Date Completed
See Attached		

Contractor's License No.: 561313 Class: A, B, HAZ Cert

Contractor's DIR Registration No.: 1000000232 Expires 06/30/2018

a. Date first obtained: 03/20/1989 Expiration: 03/31/2019


b. Has License ever been suspended or revoked? No

If yes, describe when and why: N/A

c. Any current claims against License or Bond? No

If yes, describe claims: N/A

Principals in Company (List all – attach additional sheets if necessary):

NAME	TITLE (If Applicable)	LICENSE NO.
<u>Bryan J. Zatica</u>	<u>President, Vice President, Secretary and Treasurer</u>	<u>561313</u>
	_____	_____
_____	_____	_____

Work Description, Contract Amount	Agency and Contract Info	Date Completed
\$5,777,660 Kraemer Homeless Shelter Anaheim, CA Orange County Public Works	Orange County Public Works Matt Durbin Sr Project Manager (714) 667-1626 Matthew.Durbin@ocpw.ocgov.com	5/4/18 Under Construction
\$7,828,795 USDA Forest Service Kern River Ranger District Engine Station Relocation, Lake Isabella, CA U.S. Army Corps of Engineers	U.S. Army Corps of Engineers John Taylor, Project Engineer (520) 906- 7419John.g.taylor@@usace.army.mil	10/20/2017
\$3,280,000 Design-Build Renovate Building 522 Naval Weapons Station Seal Beach Detachment, Norco, CA	U.S. Navy Eric Keyes Construction Manager (562) 572-5649 eric.keys@navy.mil	01/17/17
\$12,351,912 Design Build SEATAC International Arrival Facility Early Works Project Seattle-Tacoma, International Airport, Seattle, WA	Clark Construction Group, LLC Lou Palandrani, Clark Sr. Vice President (415) 767-7000 Lou.palandrani@clarkconstruction.com	08/17/2016
\$18,107,237 U.S. Army Corps of Engineers Joint Regional Deployment and Processing Center March ARB Base, CA	U.S. Army Corps of Engineers Stuart Royal, Project Engineer (858) 699-9325 Stuart.a.royal@usace.army.mil	08/15/2017
\$3,302,713 Design Build Renovation of Building 220 Interactive Medical Center Greater Los Angeles Healthcare Facility, Veterans Administration	U. S. Army Corps of Engineers Dina Aman, Project Engineer (626) 378-2446 dina.aman@usace.army.mil	08/17/2016
\$2,204,273 Design-Build Building 500 Patient Care Center Veterans Affairs Greater Los Angeles Healthcare System, CA	U.S. Army Corps of Engineers Stan Fugimoto, Project Engineer 626-401-4084 stanley.s.fujimoto@usace.army.mil	04/04/2015
\$16,514,606 J Street Drain, Ormond Beach Lagoon to Downstream of Hueneme Road Schedule I & Contamination Removal, Flood Control Project	Ventura County Watershed Protection District Kirk Norman, P.E. (805) 654-2017 Kirk.Norman@ventura.org	01/05/2014
\$6,623,000 Design Build Energy Efficiency Measures 11 Bldgs Naval Base Kitsap, Bremerton WA	U.S. Navy Fits Kebede, 360-476-6974 fitsum.kebede@navy.mil	05/30/2016
\$4,639,000 Renovation of Building 3735 and Demolition of Building 2650A, Edwards AFB	U.S. Army Corps of Engineers John Crase, COR/Project Engineer (661) 277-9921 John.O.Crase@usace.army.mil	02/06/2014
\$1,979,000 SCIF Renovation of Building 2740 Naval Air Station, Whidbey Island, WA	U.S. Navy LTJG Lucas Keiser, Construction Mgr 360-257-6505 lucas.keiser@navy.mil	06/15/2015
\$ 2,435,000 Design-Build Renovate GLA Hospital for Accessibility Corrections, Security Surveillance System and Retrofit of Fire Alarm, Greater Los Angeles Veterans Healthcare System, CA	U. S. Army Corps of Engineers Dina Aman, Project Engineer (626) 378-2446 dina.aman@usace.army.mil	02/07/2014

**VIOLATIONS OF FEDERAL, STATE OR LOCAL LAWS
B2017-39**

Contractor: Macro-Z-Technology Company

1. Has your firm or its officers been assessed any penalties by an agency for noncompliance or violations of Federal, State or Local labor laws and/or business or licensing regulations within the past five (5) years relating to your construction projects?

Yes/No: no Federal/State: _____

If "yes," identify and describe, (including agency and status): _____

Have the penalties been paid? Yes/No: _____

2. Does your firm or its officers have any ongoing investigations by any public agency regarding violations of the State Labor Code, California Business and Professions Code or State Licensing Laws?

Yes/No: No Code/Laws: _____ Section/Article: _____

If "yes," identify and describe, (including agency and status): _____

DISQUALIFICATION OR DEBARMENT

B2017-39

Contractor: Macro-Z-Technology Company

Has your firm, any officer of your firm, or any employee who has a proprietary interest in your firm ever been disqualified, removed, or otherwise prevented from bidding on, performing work on, or completing a federal, state or local project because of a violation of law or a safety regulation? Yes/No: no. If yes, provide the following information (if more than once, use separate sheets):

Date: _____ Entity: _____

Location: _____

Reason: _____

Provide Status and any Supplemental Statement: _____

Has your firm been reinstated by this entity? Yes/No: _____

REQUIRED ADDITIONAL BID DOCUMENTS

As stipulated on page B-3, the Bidder must provide with its bid all required Bid Documents. Following this page and included in its Bid, the Bidder must provide Items 9 through 12 on separate sheets in a Bidder's own format. Required items are:

- 9) Proposed Project Team with Organizational Chart, including responsibilities
- 10) Project Team's resumes
- 11) Company's and Project Team's LEED experience [2 LEED Gold Certified (New Construction/Major Renovation, 2009) projects of similar size and complexity, minimum]
- 12) Provide information of 5 similar projects in size and scope (Project value, description of work, photo(s), reference contact information)

9. Proposed Project Team with Organizational Chart

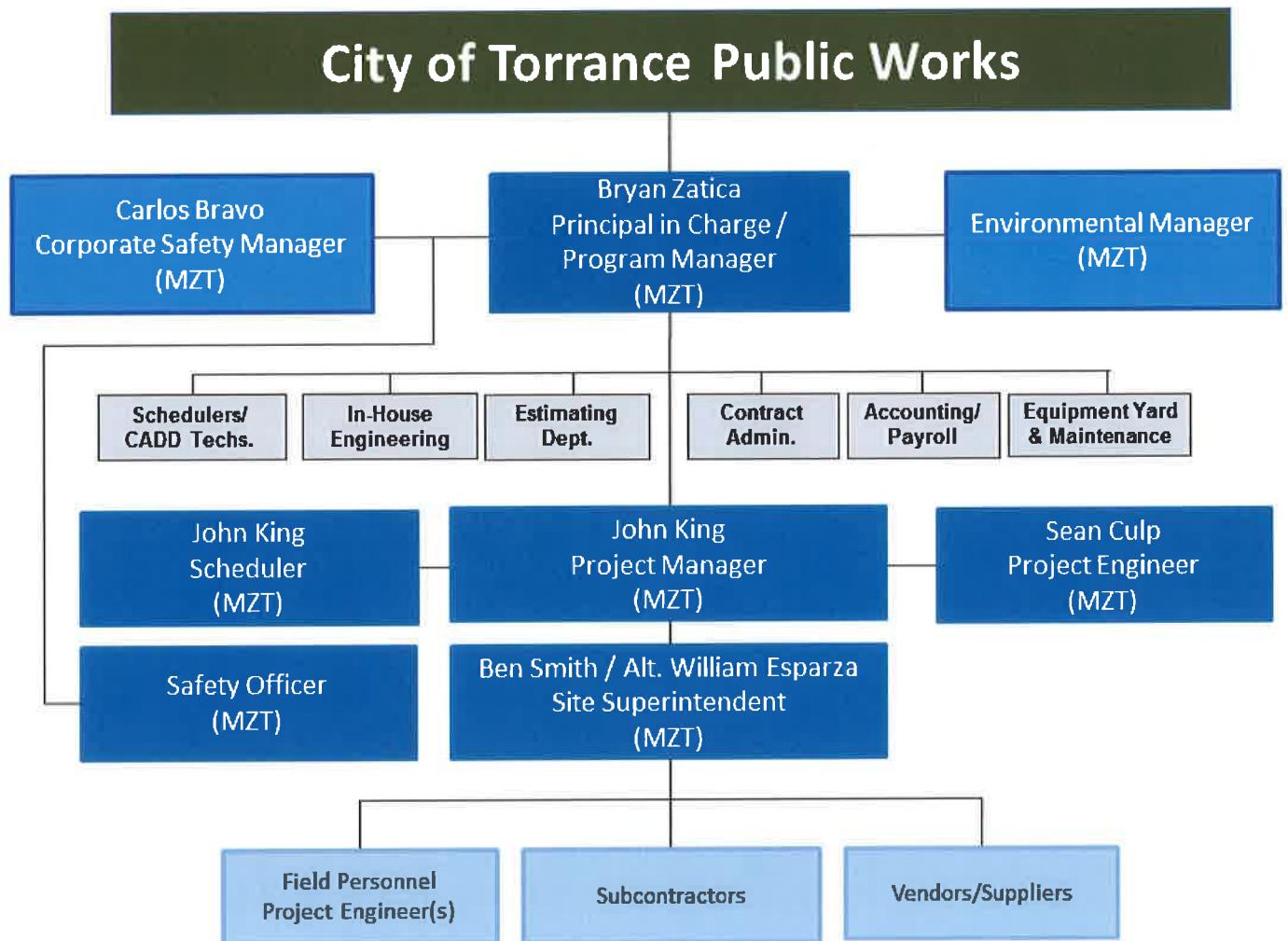
The Macro-Z-Technology team members presented below have been selected specifically for this project to construct the Torrance Transit Park and Ride Regional Terminal for the City of Torrance, CA.

The roles of our key team members are noted in the following chart:

Team Member	Responsibilities
Bryan Zatica (M-ZT)	President of M-ZT, Program Manager – Provide access to full M-ZT resources.
John King	Project Manager - Responsible to City of Torrance for overall project execution and main client point of contact. He has the responsibility of the planning, execution and closing of the project. The Project Manager shall have complete authority to act on behalf of the Contractor.
Sean Culp (M-ZT)	Project Engineer - Responsible for providing overall coordination throughout the life of the construction project. He understands how to work the construction means and methods for the accomplishment of the contract documents. He works with all team members including the designer personnel to articulate any issues requiring answers/resolution.
John King (M-ZT)	Scheduler - Responsible for the development of the initial schedule prior to award. Validates that the time for completion is possible. Responsible to maintain updated schedule daily throughout the construction timeframe to assure team can react quickly if production rates fall off. Provides “Look Ahead” schedules to assist the Superintendent in planning subcontractor’s work. John’s schedules track submittal submission, approval receipt, and material delivery dates. The scheduler will attend all overall coordination meetings.
Ben Smith / Alt. William Esparza (M-ZT)	Project Superintendent - Responsible for site construction management of all aspects of onsite work, including workers, sub-contractors, deliveries, quality control, safety, etc.
To Be Submitted Within 10 Working Days of Execution of Contract	Safety Officer - Responsible for overall site safety. Develops site specific site safety plan and assures that all employees and subcontractors on site. Reviews startup of all new activities to assure workers are trained in safe practices and have proper PPE. All of M-ZT’s Safety Officers have a minimum of 10 years’ experience and are OSHA-30 Hour Construction Industry Certified and are US Army Corps of Engineers EM-385-1-1 40 Hour Safety Training Certified.
Carlos Bravo (M-ZT)	Corporate Safety Officer - Assures M-ZT culture of safety first and foremost in the design and construction of all M-ZT projects. Visits all M-ZT ongoing construction projects on quarterly basis
To Be Submitted Within 10 Working Days of Execution of Contract	Environmental Manager Responsible for overseeing the Contractor’s conformance to environmental and LEED goals for the project and implementing procedures for environmental protection.

The Macro-Z-Technology (MZT) project team is structured as depicted on the following Organizational Chart. MZT has used variations of this same organization on all of our projects. The key to the success of this organization is that all of our team members are encouraged to communicate any issue that might arise with the affected parties as quickly as possible and to work for a recommended solution at the lowest level. All issues are discussed at the weekly project progress/safety/quality control meeting that is held on site. The Torrance Transit Park and Ride Regional Terminal org chart follows:

Torrance Transit Park and Ride Regional Terminal Construction Team



10. Project Team's Resumes

Project Manager

JOHN KING - CONSTRUCTION PROJECT MANAGER

Years Similar Experience: 37 Years

Education & Training:

Master of Science in Civil Engineering – Oklahoma State University, Stillwater, OK (1981)

Bachelors of Science in Civil Engineering – Oklahoma State University, Stillwater, OK (1979)

- OSHA 30 Hour Construction Safety & Health (2017)
- Lockout/Blockout/Tagout Safety Training (2012)
- Machine Guarding Safety Training (2012)
- Marine Dredging Awareness Safety Training (2012)
- Respiratory Protection Safety Training (2012)
- Incident/Accident Investigation Safety Training (2012)
- Basic Electrical Awareness Safety Training (2012)
- Hazard Communication Safety Training (2012)
- Confined Space Entry Awareness Level (2012)
- Ladder Safety and Inspection Safety Training (2012)

Professional Development:

- Primavera Project Planner P6
- Primavera Project Planner P3
- Microsoft Project
- Estimating/Plan Take-off Training/Proficiency
 - MC2 ICE
 - Timberline Estimating
 - Bid2Win
 - OnCenter
 - PlanSwift
 - PrimeBid

Qualifications/ Relevant Experience: Mr. King has over 37 years of experience in the construction industry. He has performed Construction and Project Management, Lead Estimating, Scheduling and other related Operations overseeing multi-million-dollar projects, Project Engineers, Quality Control Personnel and Superintendents. He has prepared cost proposals ranging from \$1M – \$140M. Mr. King managed designs for Design-Build projects up to \$20M.

In addition to being a Project Manager on multiple high-profile construction projects, Mr. King is the MZT Corporate Project Scheduler. In this duty, he trains MZT staff on the use of scheduling software. In his role as the Project Scheduler, Mr. King develops the initial project schedule that is used to assure that the timeframe allotted by prospective client for the completion of their project is adequate to complete the desired construction project. This schedule is also used to develop the estimate for site overhead, i.e. construction trailer, construction utilities, Superintendent, Safety Officer, etc. Once a new contract, task order or project is awarded Mr. King assists the Project Manager in developing the detailed construction schedule. In addition, as changes/modifications are encountered, Mr. King is often asked to develop the revised schedule that incorporates the changed work. Mr.

King has provided multiple schedules for the accomplishment of the same project to help determine the differences in cost and or time between one order of work and another.

A small sampling of the recent and relevant project management and scheduling experience which Mr. King prepared or oversaw the preparation of the baseline schedule, prepared or oversaw the preparation of monthly updates and prepared or oversaw the preparation of the as-built schedule are but not limited to:

CMAR Kraemer Homeless Shelter, Orange County, CA

Mr. King is the Project Manager for this MZT CMAR project. MZT is providing General Contractor support to Orange County and specifically to Westgroup Design, the counties designer of the Homeless Shelter. The County of Orange is converting an existing industrial/manufacturing building into a Year-Round Emergency Shelter multi-service center to serve 200 homeless people. The facility is located at 1000 North Kraemer Place, Anaheim, CA 92806. The facility is designed to provide safe shelter, basic needs, and access to services and support in an effort to move out of homelessness and into permanent housing. Upon completion of the design, MZT was awarded the construction contract for the conversion to the Homeless Shelter. (\$8.0M) Completion is scheduled for May 2018

Administration and Warehouse Buildings, Kernville, CA

Mr. King was the Lead Project Manager for this project that cleared and grubbed a 5-acre site and constructed a new 20,000 SF ranger station and warehouse facility complete with visitor's areas, offices, men's and women's restrooms with showers, kitchen, garage and warehouse space. A standing seam metal roof is provided for shedding snow loads. Building is designed with solar panels, emergency back-up power supply, ground source heat pump and other energy conserving measures. This project is currently under evaluation by the USGBC for LEED Silver Certification. (\$8.85M) Completion – Sept 2017

Kern River Engine Station Relocation, Lake Isabella, CA

Mr. King was the Lead Project Manager for this project that cleared and grubbed a 3-acre site and constructed a new 4,800 SF engine station to house two forest fire fighting trucks to serve the Lake Isabella area. The building is completed with bunk area, kitchen, offices, lounge, maintenance bay and restrooms with showers. A standing seam metal roof is provided for shedding snow loads. Building is designed with emergency back-up power supply, ground source heat pump and other energy conserving measures. A covered area is provided for the fuel pumps. The above ground fuel tanks are double walled with a containment berm and remote monitoring. (\$7.76M) Completion – Oct 2017

Joint Regional Deployment and Processing Center, March Air Reserve Base, CA

Mr. King was the Project Manager for this project that provided labor, equipment and materials to abate and demolish an existing 6,400 SF passenger terminal (Building 265) and construction of a new two story, 48,220 SF Joint Regional Deployment Processing Center (JRDPC) for military deployment personnel and equipment processing, passenger services, classified briefing rooms, food services and office areas. Site improvements include utility extensions, airfield equipment paving, parking lots, security walls, anti-terrorism/force protection measures, walkways and landscaping as shown on the Contract Documents. The work includes survey, geotechnical investigation, environmental abatement of hazardous materials, demolition, earthwork, site work, concrete, masonry, steel, metals, steel studs, drywall, acoustical ceilings, interior finishes and painting, plumbing, mechanical, electrical, fire alarm, fire protection system, doors windows and other items defined in the Contract Documents.

After construction of the new JRDPC, existing Building 385 was vacated and turned over to for abatement and demolition. After completion of the JRDPC and demolition of Building 385, existing Building 441 will be vacated and turned over to the Contractor for abatement and demolition. The work includes survey, geotechnical

investigation, environmental abatement of hazardous materials, demolition, earthwork and removal and capping of existing utilities and incidental related work defined in the Contract Documents. The baseline schedule was prepared by Mr. King and monthly updates were prepared by Mr. King using Primavera P6. This project is currently under evaluation for LEED Silver Certification. (\$18,1M) May 2015 - May 2017

Joint Transportation Center. Marysville School District, Marysville, WA - Project Manager

This project developed the new 10-acre site for the consolidated transportation center for the Marysville School District. The new 41,000 SF maintenance and office facility provides a 30,000 SF high bay Maintenance shop with 15 maintenance bays and a 2-ton bridge crane. The 11,000SF office area includes office, training, lockers, showers restrooms, lunch and a dispatch communications area. (\$7.7M) Completion 5/2014

Miller Hill Road – N 22nd Street Extension, Joint Base Lewis-McChord, WA

Mr. King was the Project Manager for this road project that included site preparation, abatement and demolition of five existing WW2-era single story wood frame structures and site utilities. Construction to extend N. 22nd Street from Idaho Ave. to Pierce Ave. included erosion control, concrete and asphalt pavements (roadway, walks, curbs and gutters), roadway striping and signs, storm drainage, sanitary sewer, street lighting, landscaping and irrigation. Work also includes installation of conduits, sleeves and duct banks under 22nd Street to facilitate future extensions and installation of waterlines, gas, site electrical and telecom infrastructure. The baseline schedule and monthly updates were prepared by Mr. King using Primavera P6. (1.0M) March 2014 thru July 2014

Explosive Handling Wharf Security Force Facility, Strategic Weapons Facility Pacific, Naval Base Kitsap Bangor, Silverdale, WA

Mr. King was the Project Manager for this project that provided a new 14,525 square foot facility to house the security force for the Bangor Waterfront. Construction included reinforced concrete walls, concrete roof, armory and berthing for the security response team. The project included secure fire protection, and heating, ventilation and air conditioning (HVAC) with special provisions against unfriendly attack. The monthly updates were overseen by Mr. King using Primavera P6. (\$10.6M) March 2012 thru June 2014

FY12 ACS Aviation Apron, Phase 1B, Joint Base Lewis-McChord, WA

Mr. King was the Project Manager for this project that included removal of an existing HMA Asphalt taxiway; removal of an existing PCC Pavement apron; clear and grub; excavation and fill for subgrade preparation; aggregate base for rigid pavement; aggregate base course for flexible pavement; 12" PCC Pavement; 2" HMA Asphalt Shoulder Pavement; airfield pavement marking; mooring points and grounding points for aircraft parking; taxiway and apron lighting; relocation of backbone communication duct bank, manholes and cables; hydro-seeding; storm drain; subsurface drainage chambers; storm water oil and sediment separators; waterline and airfield security fencing. The baseline schedule and monthly updates were prepared by Mr. King using Primavera P3. (\$13.74M) Nov. 2013 - July 2014

SMTB Battle Course Sniper Range – Camp Pendleton, CA -\$18.4M.

Mr. King was the Project Manager for this design build project to construct a nominal 270 degree horizontal arc Tactical Automated Reaction Range/Urban Sniper Range to support sniper small arms training. Construction includes 1.4 million cubic yards of earthwork, a two story sniper house with attic, control tower with observation deck and lightning protection, public address system, 134 hard wired Stationary Infantry Target (SIT) emplacements, 12 hard wired Moving Infantry Target (MIT) emplacements, 10 Known Distance Target carriages with Butts Wall, two-story building facade with target emplacements, paving, erosion control, hydro seeding, storm drainage and storm water desilting basins and electrical. The baseline schedule was prepared by Mr. King using Primavera P3. (18.4M) Oct. 2009 – May 2012

Project Engineer
SEAN CULP – PROJECT ENGINEER

Years of Experience: 10 Years

Qualifications and Relevant Experience

Mr. Culp is a results-oriented Mechanical Engineer with a hands-on approach to tackling projects and accomplishing goals with a strong background in oil and gas, public works, refinery and water / wastewater public works projects. He is an experienced and talented Project Engineer with a strong background in Capital Projects. He has served as a Site Construction Manager, QC Manager, Project Engineer, Project Manager, Site Safety officer and Superintendent on projects from \$1 million to \$25 million dollars.

Education & Training

Bachelor of Science in Mechanical Engineering, University of Oklahoma

Bachelor of Business Administration in Management Information Systems, University of Oklahoma

Other Relevant Training and Skills

- USACE Construction Quality Control for Contractors (Exp. 07/2022)
- OSHA 30 Hour Construction Safety & Health (2017)
- ABS HAZOP class
- ABS PSM Audit class
- EDP within COP
- Experience with various Engineering Programs: SAP, Dream Weaver, Pro Engineer, Pro Mechanical PHA Works, Solid Works, AutoCAD, MS Project, Excel, Word, Access, Pipe-Flo Pro, Fisher Specifications, Goulds PSS
- Work with Process Flow Engineer designing flow systems, P&ID's, and Pipe Plans for Stations, Systems, and Projects.

Relevant Experience

USDA Forest Service Administration and Warehouse Buildings, Kernville, CA, US Army Corps of Engineers, \$12M

Mr. Culp is the Assistant Project Manager for this project that cleared and grubbed a 5-acre site and constructed a new 20,000 SF ranger station and warehouse facility complete with visitor's areas, offices, men's and women's restrooms with showers, kitchen, garage and warehouse space. A standing seam metal roof is provided for shedding snow loads. Building is designed with solar panels, emergency back-up power supply, ground source heat pump and other energy conserving measures. This project is currently under evaluation by the USGBC for LEED Silver Certification. (\$8.85M) Completion – Sept 2017

**U.S. Army Corps of Engineers, Kern River Ranger District Engine Station
Relocation, Lake Isabella, CA \$7.7M**

Mr. Culp is the Assistant Project Manager for this project which is the construction of a fire station which includes administration and engine support. The administrative side includes a day room, cubicle space for station captain and lieutenants, single use restrooms with showers, kitchenette, storage and a separate training space. The engine support space includes a two-bay garage for storage of engines, PPE, gear and tools. A weight room and separate storage room are located off the engine bays. Hazardous material storage will be provided in the maintenance yard in the form of a pre-fabricated structure. Two single-use restrooms accessible from the exterior only are also

provided for use by visiting firefighters during incident response missions. The site required substantial grading, paving, striping of Lake Isabella Blvd, construction of a solar energy field, construction of a septic leach field, installation of drought tolerant landscaping, construction of an irrigation system, construction of retaining/sound walls, installation of a 30' tall hose drying tower, connection to the local water and electrical lines and site fencing. (March 2017 – Nov. 2017)

LADWP Lake Owens Dust Mitigation Project, Lone Pine, CA, LADWP, \$25M.

Mr. Culp was the Project Manager and Project Engineer for the construction of two 500,000 SF Warehouse/Office Buildings. Each of the warehouses included high bay with overhead bridge cranes. Each warehouse included two maintenance bays with overhead drops for capture of exhaust gas for large water tanker trucks. This project involved 65 miles of HDPE water distribution piping with pump stations, 1,500 acres of gravel cover. The pipeline was fused together in a harsh, constantly changing and moving dry lake bed to transport water from established mainlines to new shallow floods and vegetation areas. 1,500 acres were also covered in fabric and spread with 4" of 2" minus gravel to mitigate the dust. Quality control of fused joints of pipe was constantly monitored as well as correct depth of gravel. (March 2016 – March 2017)

LA County Sanitation #3 Pump Replacement, Long Beach, CA, LA County Sanitation #3.

Mr. Culp was the Project Manager / Project Engineer of replacing 2 12" pumps 45 feet underground in a converted wet well system. Concrete pedestals were poured and cured underground. Pumps, tools and workers were lowered to bottom via cranes. Sanitation still was in operation so pumps were replaced one at a time to ensure county sanitation still was operational. (October 2015 – Jan 2016)

Midway City Sanitation Division CNG fueling station project, Westminster, CA, Midway City Sanitation, \$4.5M.

Mr. Culp was Project Manager / Project Engineer, Quality Control, Site Safety Officer, and On-site Construction Manager of this custom state of the art compressed natural gas fueling station. 8-time fill bays were established with 2 quick fill units all while allowing full normal day operations without interruption of daily services. Backup generator was installed to allow time fill at night or during the day to ensure day to day operations could be maintained. Redundant natural gas compressors were installed in case of failure. (January 2015- Sept 2015)

Zephyr Gas Services / CDM Resource Management, Houston, TX

Mr. Culp was Senior Mechanical Engineer helping build and manage design of AMINE Plants, and GLYCOL Dehydration, as well as Gas Coolers and JT Plants. All units were built per each individual owner's needs and ranged in costs from \$.5M to \$5M. CAD drawings were created and energy savings calculated to promote environmental sustainability and energy conservation. (October 2011 – March 2012)

Pipeline Integrity Initiative Engineer, Bakersfield, California/Houston, TX

Mr. Culp was responsible for tracking 300 initiatives creating an entire new process for pipelines and terminals to create a more efficient system to manage, lead, and operate terminals and pipelines from coast to coast. Training and implementation of new systems was completed by training classes and site visits to ensure understanding and acknowledgment. (November 2008 – October 2011)

District Engineer, Bakersfield, CA

Mr. Culp handled all district projects under \$5M in an area from Bakersfield to Sacramento and back to Santa Maria. Over 700 miles of pipeline were maintained, 40 pump stations, 4 truck terminals, 1 barge terminal and a rail terminal. Projects ranged in scope and size as well as complexity. Mr. Culp was responsible for maintaining the budget, Quality Control Officer, and Safety Field Officer. (January 2006 – November 2008)

Scheduler

JOHN KING – SCHEDULER

Years Similar Experience: 37 Years Education & Training:

Master of Science in Civil Engineering – Oklahoma State University, Stillwater, OK (1981)
Bachelors of Science in Civil Engineering – Oklahoma State University, Stillwater, OK (1979)

Professional Development:

- Primavera Project Planner P6
- Primavera Project Planner P3
- Microsoft Project
- Estimating/Plan Take-off Training/Proficiency
 - MC2 ICE
 - Timberline Estimating
 - Bid2Win
 - OnCenter
 - PlanSwift
 - PrimeBid

Qualifications/ Relevant Experience: Mr. King has over 37 years of experience in the construction industry. He has performed Construction and Project Management, Lead Estimating, Scheduling and other related Operations overseeing multi-million-dollar projects, Project Engineers, Quality Control Personnel and Superintendents. He has prepared schedules and cost proposals ranging from \$1M – \$140M.

Mr. King is the MZT Corporate Project Scheduler. He has been trained through the Oracle University's Primavera P6 training courses. Mr. King trains all of MZT's project managers in the use of Primavera P6. at the Primavera n this duty, he trains MZT staff on the use of scheduling software.

In his role as the Scheduler for this project, Mr. King has developed the initial project schedule that was used to assure that the timeframe allotted by prospective client for the completion of their project is adequate to complete the desired construction project. This schedule is also used to develop the estimate for site overhead, i.e. construction trailer, construction utilities, Superintendent, Safety Officer, etc. Once the contract is awarded to MZT, Mr. King assists the Project Manager in developing the detailed construction schedule. For the Torrance Transit Park and Ride Regional Terminal, Mr. King will update the schedule as work progresses, run management reports noting all upcoming activities and submittal status and update or revise the schedule if changes/modifications are encountered. Mr. King will also be available to run scenarios resequencing the work to determine the optimum schedule for completing the project.

A small sampling of the recent and relevant project management and scheduling experience which Mr. King prepared or oversaw the preparation of the baseline schedule, prepared or oversaw the preparation of monthly updates and prepared or oversaw the preparation of the as-built schedule are but not limited to:

CMAR Kraemer Homeless Shelter, Orange County, CA

Mr. King is the Scheduler and Project Manager for this MZT CMAR project. MZT is providing General Contractor support to Orange County and specifically to Westgroup Design, the counties designer of the Homeless Shelter. The County of Orange is converting an existing industrial/manufacturing building into a Year-Round Emergency Shelter multi-service center to serve 200 homeless people. The facility is located at 1000 North Kraemer Place,

Anaheim, CA 92806. The facility is designed to provide safe shelter, basic needs, and access to services and support in an effort to move out of homelessness and into permanent housing. Upon completion of the design, MZT was awarded the construction contract for the conversion to the Homeless Shelter. (\$8.0M) Completion is scheduled for May 2018)

Administration and Warehouse Buildings, Kernville, CA

Mr. King was the Scheduler and Lead Project Manager for this project that cleared and grubbed a 5 acre site and constructed a new 20,000 SF ranger station and warehouse facility complete with visitors areas, offices, men's and women's restrooms with showers, kitchen, garage and warehouse space. A standing seam metal roof is provided for shedding snow loads. Building is designed with solar panels, emergency back-up power supply, ground source heat pump and other energy conserving measures. This project is currently under evaluation by the USGBC for LEED "Silver" Classification. (8.85M) Completion – Sept 2017

Kern River Engine Station Relocation, Lake Isabella, CA

Mr. King was the Scheduler and Lead Project Manager for this project that cleared and grubbed a 3 acre site and constructed a new 4,800 SF engine station to house two forest fire fighting trucks to serve the Lake Isabella area. The building is completed with bunk area, kitchen, offices, lounge, maintenance bay and restrooms with showers. A standing seam metal roof is provided for shedding snow loads. Building is designed with emergency back-up power supply, ground source heat pump and other energy conserving measures. A covered area is provided for the fuel pumps. The above ground fuel tanks are double walled with a containment berm and remote monitoring. (\$7.76M) Completion – Oct 2017

Joint Regional Deployment and Processing Center, March Air Reserve Base, CA

Mr. King was the Scheduler and Project Manager for this project that provided labor, equipment and materials to abate and demolish an existing 6,400 SF passenger terminal (Building 265) and construction of a new two story, 48,220 SF Joint Regional Deployment Processing Center (JRDPC) for military deployment personnel and equipment processing, passenger services, classified briefing rooms, food services and office areas. Site improvements include utility extensions, airfield equipment paving, parking lots, security walls, anti-terrorism/force protection measures, walkways and landscaping as shown on the Contract Documents.

The work includes survey, geotechnical investigation, environmental abatement of hazardous materials, demolition, earthwork, site work, concrete, masonry, steel, metals, steel studs, drywall, acoustical ceilings, interior finishes and painting, plumbing, mechanical, electrical, fire alarm, fire protection system, doors windows and other items defined in the Contract Documents.

After construction of the new JRDPC, existing Building 385 was vacated and turned over to for abatement and demolition. After completion of the JRDPC and demolition of Building 385, existing Building 441 will be vacated and turned over to the Contractor for abatement and demolition.

The work includes survey, geotechnical investigation, environmental abatement of hazardous materials, demolition, earthwork and removal and capping of existing utilities and incidental related work defined in the Contract Documents. The baseline schedule was prepared by Mr. King and monthly updates were prepared by Mr. King using Primavera P6. (\$18,1M) May 2015 - May 2017

Superintendent
BEN SMITH - SUPERINTENDENT

Years Similar Experience: 28 Years

Years with this firm: 22 Years

Years with Other Firms: 6 Years

Education & Training:

- U.S. Army Corps of Engineers Construction Quality Management Certified (Exp 11/2022)
- EM385-1-1 Refresher (9/2016)
- EM 385-1-1 40-Hour Safety Training Certified (2011)
- OSHA 30-Hour Construction Industry Safety Certified (2017)
- OSHA 110 Hour Construction Safety and Health Certified (2013)
- OSHA Lead in Construction (2013)
- CPR, AED, First Aid, Bloodborne Pathogens (2016)
- Animal Bite Safety Awareness Training (2012)
- 16 Hour Asbestos O & M Initial (2013)
- HAZWOPER Refresher 8 Hour Certified (2010)
- HAZMAT Occasional Site Worker 24 Hour Certified (2009)

Qualifications/Relevant Experience:

Mr. Smith has over 28 years of Superintendence, Site Safety Health Officer, and Quality Control expertise, having been personally involved in the management of hundreds of facilities, tenant improvements, structural, civil and infrastructure construction projects. He has been directly responsible for the success and day-to-day operations on over \$200 million worth of construction projects. Mr. Smith has worked with the U.S. Navy, U.S. Army Corps of Engineers, U.S. Department of Veterans Affairs, U.S. Air Force, GSA and dozens of other local, state and federal agencies and municipalities.

Mr. Smith is 40-hour EM385-1-1 Health and Safety trained and has used the manual on dozens of federal projects. He is also certified with USACE Quality Construction Quality Management for Contractors, 30-hour OSHA Compliance, and numerous other safety related training courses.

Throughout his career, Mr. Smith has served as the Superintendent/Site Safety Health Officer /Quality Control on several "Green" Buildings certified by the U.S. Green Building Council (USGBC) as Leadership in Energy and Environmental Design (LEED) projects. Mr. Smith has been an integral force in design-build and design-bid-build construction, providing construction oversight and management throughout all phases. A sampling of Mr. Smith's most relevant experience can be found below:

Joint Regional Deployment Center, March ARB, CA, US Army Corps of Engineers \$18M

Mr. Smith is the Superintendent for this project which includes the abatement and demolition an existing 6,400 SF passenger terminal (Building 265) and construction of a new two story, 48,220 SF Joint Regional Deployment Processing Center (JRDP) for military deployment personnel and equipment processing, passenger services, classified briefing rooms, food services and office areas. Site improvements include utility extensions, airfield equipment paving, parking lots, security walls, anti-terrorism/force protection measures, walkways and landscaping. This project is currently under evaluation for LEED Silver Certification. (\$18.1M) May 2015 - May 2017

Design-Build B500 Patient Education Center, Veterans Affairs West Los Angeles Healthcare System, CA U.S. Army Corps of Engineers - \$2.1M. Mr. Smith was the Superintendent for this project which includes construction of

several large conference rooms, a flexible simulation lab area, restroom facilities, and a general reception area and lounge space. (May 2014 – May 2015)

Repair Cathodic Protection FFP Water System, Edwards AFB, CA, U.S. Army Corps of Engineers - \$410K. Mr. Smith is the superintendent for the repair of the cathodic protection water systems at Edwards AFB, CA. (Apr 2014 – May 2014)

Design-Build Renovate and Demolish Various Buildings, Edwards AFB, CA, U.S. Army Corps of Engineers - \$4.6M. Mr. Smith was the Superintendent for this design-build project which requires the demolition and renovation of Building 2650A and the renovation of both the interiors and exteriors to Buildings 3735, 4900, 4904, and is also providing additional site work at Edwards AFB, CA. (Jan. 2013 to Feb. 2014)

Design-Build Demolition of Buildings 3320B and 3320C, Naval Base, San Diego, CA U.S. Navy - \$1.8M. Mr. Smith was the Superintendent for this design-build project which requires the demolition of three (3) facilities located adjacent to the Navy Southwest Band. Additional work included new landscaping, artificial turf, hardscape, and a new parking lot. (Apr. 2012 – Dec. 2012)

Construct Fragment Analysis Building, NAWS, China Lake, CA U.S. Navy – \$1.4M. Mr. Smith was the Superintendent/Site Safety Health Officer for this Design and Construction of a new building with a gross area of 6,000 square feet. The scope of work for this supporting facilities included site preparations, paved areas, propane system, connections to existing septic, water and electrical systems, fence enclosures and exterior lighting. . The new facility will enhance the nation's combat readiness by providing the highest quality and services to the Naval Aviation community and to all the organizations that utilize Naval Air Weapons Station (NAWS) China Lake. (July 2011 - July 2012)

Propulsion Lab Area Various Buildings Repairs, Salt Wells, China Lake U.S. Navy \$625K. Mr. Smith was the Superintendent/Site Safety Health Officer for this project that consisted on the replacement of doors and bathroom repairs to 21 buildings. The work included all associated hardware, painting of control rooms and restrooms, replacement of existing restroom fixtures and interior plumbing, and some interior electrical work. Because these are historic facilities, the team met the State Historic Preservation Officer Documents (SHPO) by matching the look of the existing doors. (July 2011 - June 2012)

Various Repairs to Bldg. 1480, NAS North Island, Coronado, CA Dept. of Homeland Security - \$494K. Mr. Smith was the Superintendent/Site Safety Health Officer for this project that required demolition of old roof and replacement of new roof. It also entailed replacement of 19 windows, update of DDC controls in the HVAC and repair to two chain link gates. This project received outstanding evaluation. (June 2011 – Dec. 2011)

Design-Build Building 468, Phase II New Enclosure, Naval Air Station North Island San Diego U.S. Navy - \$670K. Mr. Smith was the Superintendent/Site Safety Health Officer for the Design-Build project of a 4,800 Square Foot pre-engineered metal building with a large opening for a sliding hangar door to move aircraft parts seamlessly in and out of the building. This facility is to contain a blast booth for the Navy on North Island Coronado. (July 2010 – Dec. 2011)

Runway Rubber Removal and Repair Phases 1, 2, & 3, March ARB, CA U.S. Air Force - \$364K. Mr. Smith was the Superintendent/Site Safety Health Officer for this project which required spall repair, debris removal, demolition, marking and striping, survey and layout, and required the use of a special detergent to clean off debris and excess rubber along the concrete runway and then restripe the runway. The first phase was completed in early 2009, the second phase in early 2010, and the third phase in early 2011. We were required to wait six (6) to nine (9) months

in between phases in order to allow rubber build up prior to cleaning off the runway. All work was performed on an active airfield; thus, all work was performed off-peak work hours. The runway was to remain operable and ready for use throughout each workday. (Aug. 2009 – Feb. 2011)

Design-Build Child Care Development Center, NAS North Island, Coronado, CA U.S. Navy - \$5.1M. Mr. Smith was the Superintendent/Site Safety Health Officer for the design-build construction of a 12,635 SF CDC, which includes a commercial kitchen, large yards and outdoor playground areas. This will accommodate two different sizes of child development centers, a center for 112 children and another center for 160 children, considering future expansion. The CDC was required to meet the design and architectural language of the historical district of Naval Base North Island. The new facility achieved "Gold" LEED certification by reducing energy and resource consumption through environmentally responsible and sustainable design elements. (Sept. 2008 – Aug. 2010)

Renovation and Upgrades to Fisher House II, Naval Medical Center, San Diego, CA U.S. Navy - \$272K. Mr. Smith was the Superintendent/Site Safety Health Officer for the design-build construction of a fully-occupied facility that provides living quarters for families of wounded soldiers. This project includes the construction of an addition stairway to the 2nd floor of building 47 and installation of fire strobes in the bedrooms and a fire sprinkler system over the AC units, as well as other structural upgrades to meet code compliance. (Sept. 2009 – Jun. 2010)

Design-Build Mobile Mine Assembly Units (MOMAUS), Naval Weapons Station in Seal Beach, CA U.S. Navy - \$3.6M. Mr. Smith was the Superintendent/Site Safety Health Officer for this project which included the Design and Construction of a LEED Certifiable 20,300 (203'x100') SF Pre Engineered Metal Building warehouse with a high-tech fire alarm system and secure doors and windows. (Mar. 2008 – Jan. 2009)

Design-Build Joint Warfare Assessment Laboratory, Corona, CA U.S. Navy - \$12.6M. Mr. Smith was the Superintendent/Site Safety Health Officer for this LEED "Silver" rated 40,000 SF office building with level II security requirements, serving as the command center for the Navy. Work required the design and installation of a raised modular floor system providing the Owner with easy access to all electrical power, telephone/communication, plumbing, HVAC and data through the under floor zone boxes. Electrical work included: electrical distribution, fire alarms, energy-saving electronic monitoring and control systems, information systems, a mass alert system, and the most technically advanced electronics system available. This project received an Outstanding CCASS evaluation from the Owner. (March 2006 – July 2008)

Security Upgrades to the Main & Westminster Avenue Gates, NWS Seal Beach, CA U.S. Navy - \$1.2M. Mr. Smith was the Superintendent for this project which required gates 1 & 9 to be upgraded with security cabling, an anti-terrorism pop-up bollard road, CCTV surveillance, and 2 guard sniper towers which provided radio communication to the local police, as well as Navy personnel. (Sept. 2005 – March. 2006)

Design-Build Cardiac Cauterization Lab & Angio Room, Hospital, Long Beach, CA Dept. of Veterans Affairs - \$2.3M. Mr. Smith was the Superintendent/Site Safety Health Officer for the design and construction of two (2) fully-operational medical departments occupying 4,500 SF of remodel space and the installation of sensitive medical equipment. (Sept. 2004 – Dec. 2005)

Design-Build VA Medical Center Renovations, VA Long Beach, CA Dept. of Veterans Affairs - \$3.4M. Mr. Smith was the Superintendent/Site Safety Health Officer for the demolition of the main hospital, reconfiguration and construction of the corridor connections to three (3) independent structures, and the new landscape and hardscape in this fully-functioning VA hospital. (Nov. 2003 – July 2005)

Design-Build Repairs to Fire Pumps & Alarms, Camp Pendleton, CA U.S. Navy - \$831K. Mr. Smith was the Quality Control Manager for this project which was constructed on an active military base. The project required fire alarms, mass emergency/panic alarm systems, secure doors and windows. (Feb. 2003 – Dec. 2003)

Indoor Simulator Marksmanship Training Facility, Camp Pendleton, CA U.S. Navy - \$518K. Mr. Smith was the Superintendent for this facility which was constructed on an active military base. The project required fire alarms, mass emergency/panic alarm systems, secure doors and windows. (Nov. 2002 – Oct. 2003)

Additional Projects:

Superintendent March 2006 – May 2006

Warehouse Renovation Bldg. 68 at Naval Weapons Station Seal Beach, CA, U.S. Navy

Superintendent September 30, 2004 – December 2005

Design Build Relocation of Cardiac Cauterization Lab and Angio Room, VA Long Beach Healthcare Center

Superintendent March 2004 – April 2005

Veterans Administration Medical Center, Long Beach, CA – U.S. Department of Veterans Affairs

Alternate Superintendent
WILLIAM ESPARZA – SUPERINTENDENT

Years Similar Experience: 20 years

Years with this firm: 20 Years

Education & Training:

- OSHA 30 Hour Outreach Training (2017)
- EM385-1-1 Refresher (2016)
- EM 385-1-1 40 Hour Training Certified (2010)
- CPR, AED and First Aid (Exp 9/30/18)
- U.S. Army Corps of Engineers Construction Quality Management Course
- OSHA Lead in Construction (2013)
- GHS and OSHA Hazardous Communication (2015)
- 510 OSHA Certified (2010)
- 16 Hour Asbestos O & M Initial (2013)

Qualifications/Relevant Experience: Mr. Esparza has over 20 years of experience within the DOD, federal, city, state agencies, and private/commercial construction industry. He has worked as a Project Superintendent, Quality Control Manager, Site Safety Health Officer (SSHO), Field Engineer and Carpenter/Forman for design-build and new construction throughout the Western United States. Mr. Esparza has managed contracts for the U.S. Army Corps of Engineers, U.S. Navy, Bureau of Reclamation, as well as various other local, state and Federal agencies and municipalities. Mr. Esparza understands the various construction trades, to perform, plan, schedule and monitor on-site construction quality control and inspection work. He has an intimate knowledge of EM-385-1-1 and enforces all the rules and regulations contained therein. His experience also includes the creation, implementation, and monitoring of site specific Quality Control and Safety Plans. A sampling of Mr. Esparza's most relevant experience can be found below:

Joint Regional Deployment Center, March ARB, CA, US Army Corps of Engineers \$18M

Mr. Esparza was the Superintendent for this project which included the demolition of an existing 6,400 SF passenger terminal (Building 265) and the construction of a new two story, 48,220 SF Joint Regional Deployment Processing Center (JRDP) for military deployment personnel and equipment processing, passenger services, classified briefing rooms, food services and office areas. Site improvements included utility extensions, airfield equipment paving, parking lots, security walls, anti-terrorism/force protection measures, walkways and landscaping. (Nov. 2015 - Dec. 2016)

Santa Ana Mainstream, Lower Santa Ana Channel, Reach 9 Phase 2A , Prado Dam, Riverside, CA - \$24M. Mr. Esparza is the Superintendent/Alt Site Safety for this project which consists of excavation and backfill for construction of approximately 6,000 feet of 24-inch thick grout stone bank protection and approximately 1,800 feet of steel sheet pile with tie back anchors. Work also includes, construction of approximately 800 LF of reinforced concrete retaining wall, culvert extensions including a 12' by 10' high double box, 72" to 24" diameter culvert extensions and new construction, chain link and cable fencing, wrought iron fencing, pipe gates, guardrails, and decomposed granite and asphaltic concrete road surface and base course materials. Earthwork includes approximately 300,000 CY of excavation and compacted fill, dewatering of up to 20 FT of groundwater, approximately 80,000 tons of derrick stone, approximately 50,000 tons of grouted stone and other bedding, dumped stone, riprap, hydro-seeding, landscape planting, irrigation and maintenance. (July 2012 – Nov. 2015)

Santa Ana Channel Improvements, Reach 9, CA, US Army Corps of Engineers - \$3.6M. Mr. Esparza was the Superintendent/Alt Site Safety for this project that included the mass excavation of an existing overflow for Prado

Dam on the border of Orange and Riverside County. There was approximately 9,200 tons of derrick stone installed and 16,961 tons of grouted stone installed, 1,450 lineal foot of concrete V-ditch, 1,450 lineal foot of permanent fencing, 60 lineal foot of 60" corrugated metal pipe was replaced with 60" reinforced concrete pipe, and 800 sf of sheet piling buried at a depth of 20 feet. Excavations reached depths at 35' and the water table was at 15' deep therefore dewatering wells were drilled and dewatering was required to meet contract grouted stone installation requirements. (Sept. 2008 – Mar. 2009)

Fairview Park Wetlands & Riparian Habitat, Costa Mesa, CA – \$1.8M. Superintendent/Alt Site Safety for this project which included the full landscape and irrigation of Fairview Park in the center of Costa Mesa. This project included the clearing and grubbing of nearly 20 acres and the planting of riparian area which covered 17.7 acres with shrubs from 5 gallons to trees up to 15 gallons. Included was an electrical full automatic irrigation system, new hydroseeding landscaping of the remaining area, and establishment of full vegetation and maintenance of the area for 1 year after construction ended. (Dec. 2008 – Oct. 2011)

Waste Water Collection System, Lower Elwha Klallam Tribe Reservation, Port Angeles, WA - \$8.3M. Mr. Esparza was the Superintendent/Alt Site Safety of a new vacuum assisted wastewater collection system within Lower Elwha Klallam Tribe (LEKT) reservation adjacent to the Elwha River. The new system will be conveyed to a single vacuum/pump house located on the reservation. Construction also included new reservation access alignment. (Sept. 2010 – May 2011)

Design-Build 5-5 ADA Battalion Headquarters, US Army, Joint Base Lewis McChord – \$5M. Mr. Esparza was the Superintendent/Alt Site Safety for this LEED 16,000 SF office building. Work required the design and installation of a structure to include classrooms and office space. Aspects of the job included metal stud framing, electrical, plumbing, HVAC, metal roofing, asphalt parking area, sidewalks, and landscaping. (Feb. 2011- May 2011)

Lake O'Neil Dredging & Recharge Ponds rehabilitation, MCB Camp Pendleton, CA - \$6M. Mr. Esparza was the Superintendent/Alt Site Safety overseeing all daily work to ensure the increase of the surface water storage capacity of Lake O'Neill by performing maintenance dredging and (2) rehabilitation of existing recharge ponds 4,5,6 and 7, through excavation; installation of spillway culverts and the construction of a levee around ponds 6 and 7. (Nov. 2010 – Jan. 2011)

Border Fence Repairs & Drainage Improvements, Yuma Sector, AZ - \$1.5M. Mr. Esparza was the Superintendent/Alt Site Safety overseeing the emergency breaches along the U.S. Mexico Border fence under the direction of the U.S. Department of Homeland Security/USACE throughout the Yuma, AZ sector. (July 2010 – Oct. 2010)

Santa Ana River Channel Improvements, CA - \$4.7M. Mr. Esparza was the Superintendent/Alt Site Safety for this project which included the mass excavation of an existing overflow for Prado Dam on the border of Orange and Riverside County. Approximately 9,200 tons of derrick stone was installed and 16,961 tons of grouted stone installed, 1,450 lineal foot of concrete V-ditch, 1,450 lineal foot of permanent fencing, 60 lineal foot of 60" corrugated metal pipe was replaced with 60" reinforced concrete pipe, and 800 sf of sheet piling buried at a depth of 20 feet. Excavations reached depths at 35' and the water table was at 15' deep therefore dewatering wells were drilled and dewatering was required to meet contract grouted stone installation requirements. (Dec. 2009 – Jun. 2010)

Design-Build Child Development Center, NAS Coronado, San Diego, CA - \$5.2M. Mr. Esparza was the Assistant Superintendent/Site Safety on the 12,635 SF Child Care Development Center, which includes a commercial kitchen, large yards and outdoor playground areas. (Apr. 2009 – Nov. 2009)

Nuclear, Biological or Chemical (NBC) Facilities at Area 62 & 43 MCB Camp Pendleton, CA, \$1.2M. Mr. Esparza was the Alternate Superintendent/Site Safety on this project which included the construction of two (2) Nuclear, Biological or Chemical (NBC) Facilities at 62 and 43 Areas. The work included demolition of existing facilities, grading, concrete foundations, masonry walls, metal roofs, doors, windows, mechanical ventilation system, lighting, electrical power connection and overhead electrical line extensions, as well as other incidental site work. (Feb. 2009 – Apr. 2009)

Design-Build Mobile Mine Assembly Units, NWS Seal Beach, CA - \$3.6M. Mr. Esparza was the Assistant Superintendent/Site Safety working with the designer to perform constructability reviews and construction oversight during the design phase of the 15 Collocation to Building 78. (Dec. 2008 – Feb. 2009)

Design-Build Bear Creek Wastewater Treatment Plant, CA - \$1.1M Mr. Esparza was the Superintendent/Site Safety for the upgrade of an existing wastewater treatment plant. Base contract included construction of the following processes: Flow Equalization Basins (2) and Junction Box; Filter Influent Pump Station; Flash Mix Pump Station; Flocculation Tank; Filters; Chlorine Contact Tank; Recycled Water Pump Station; Electrical Building; and Reject Water Pump Station. (Apr. 2007 – Aug. 2007)

Design-Build Joint Warfare Laboratory Addition (P-008), U. S. Navy, NWC Corona, CA - \$12.6M. Mr. Esparza was the Assistant Superintendent/Alt Site Safety for the design and construction of an addition to the existing Joint Warfare Assessment Laboratory. During the design process, the building changed from a facilities addition to a new stand-alone two-story steel-framed 40,000 SF office building with level II security requirements. (Jan. 2007 – Apr. 2007)

Deer Creek Waste Water Treatment Plant El Dorado Irrigation District, CA – \$8.5M. Mr. Esparza was the Superintendent/Site Safety for the upgrade to an existing facility to allow for increased recycled water supply, improved reliability, and to comply with the new stringent water quality regulations. Construction consisted of a new equalization pumping station, the retrofit of the existing 1.0 million gallon steel equalization storage tank and the construction of a new steel equalization storage tank complete with odor control and equalization tank mixing pump station which provided an additional 2.6 million gallons of storage capacity for the ability to store and return primary effluent during the peak flows. (Jan 2006 – Jan. 2007)

Design-Build Consolidated Support Facility, Edwards Air Force Base, CA – \$11.5M. Mr. Esparza was the Foreman/Alt Site Safety for the new two-story 49,000 sf Consolidated Support Facility for the Department of Defense. The building will include handicapped access, elevators, utilities, parking and all necessary support, an automatic fire sprinkler system, detection and alarms system for force protection will be incorporated. (Apr. 2003 – Apr. 2005)

Window Replacement-Phase I, Tucson AZ - \$1.5M. Mr. Esparza was the Superintendent/Site Safety for the VA hospital project in Tucson, AZ. This was a fully operational 24 hrs facility in which the project consisted of replacing 750 existing windows, scheduling work in accordance with owner criteria specifications. In addition to installing a new window, work consisted of matching existing finishes by performing interior and exterior patchwork created by the removal of existing windows. All work associated with window installation was self-performed. (Jan. 2003 – April 2003)

Grand Coulee Dam Visitor Arrival Center, Grand Coulee, WA – \$2.3M. Mr. Esparza was the Superintendent/Site Safety for the seismic retrofit and interior renovation of the Grand Coulee Dam Visitor Arrival Center. Originally constructed in 1975-1976, the VAC was built from 30 pre-cast tilt-up concrete panels and is a scale model of the generators found in the powerhouses at the Grand Coulee Dam. (Mar. 2001 – Nov. 2002)

11. Company's 2 LEED Gold Certified Project

Design-Build VA Regional Headquarters and Biomedical Research Center at Boise, ID
\$8,476,966.00

Prime Contractor: Macro-Z-Technology (MZT)

The project consisted of a one (1) story, 25,000 SF, regional office building which will house 91 employees for the Department of Veterans Affairs. This facility included reception area, private offices, modular office cubicle space, training and small meeting spaces, lunch/snack area. This facility also included dedicated HVAC, electrical and janitorial space. Surface parking facilities at the front of the building was designed to accommodate 74 cars and 3 handicapped spaces. A service entrance was developed on the east side of the building in order to serve as a loading dock area.




Site work included: landscaping, site lighting, concrete walkways, parking control systems, and bicycle storage facilities. All underground utilities serving the new building include sanitary sewer, fire water, potable water, gas, geothermal, electrical and telecommunications. A key feature included in the building is the installation of 1st impression graphics in the lobby and a fully automated high-density filing system. The design for this facility included provision for a 16,500SF second story for biomedical research.



This was the first LEED Gold project for the U.S. Department of Veterans Affairs.











LEED BD+C: New Construction v2 - LEED 2.2
VA Regional Office Building

500 Fort Street, Building RO
Boise, ID 83702
United States
[Map](#)

LEED
GOLD
2009

Overview
Scorecard

LEED Scorecard Gold 42/69

SUSTAINABLE SITES	10 OF 14	
WATER EFFICIENCY	2 OF 5	
ENERGY & ATMOSPHERE	11 OF 17	
MATERIAL & RESOURCES	4 OF 13	
INDOOR ENVIRONMENTAL QUALITY	10 OF 15	
INNOVATION	5 OF 5	

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DOWNLOAD SCORECARD

LEED Facts
for LEED BD+C: New Construction (v2.2)

Certification awarded Oct 2009

Gold	42
Sustainable sites	10/14
Water efficiency	2/5
Energy & atmosphere	11/17
Material & resources	4/13
Indoor environmental quality	10/15
Innovation	5/5



**Design-Build Child Development Center at Naval Air Station North Island, Coronado, San Diego, CA
\$5,353,607.93**

Prime Contractor: Macro-Z-Technology (MZT)

This Design-Build project provided a 12,600 SF child development center for occupancy by 112 children at NAS North island. The facility includes lobby, control desk, administrative office, activity rooms, kitchen, laundry, toilets and ancillary storage rooms compliant with UFC. The site development included all site work, site utilities, parking lots, landscape and playgrounds required for the facility. The building includes, but not limited to, providing spaces for child-friendly classrooms with toilets, community space for children and adults, outdoor and indoor play areas, meeting space for adults, administration spaces, clinic, food service space, storage space and toilets.





LEED BD+C: New Construction v2 - LEED 2.2
P503 Child Development Center

Naval Air Station North Island
Coronado, CA 92135
United States
[Map](#)



Overview | Scorecard

LEED Scorecard

Gold 40/69

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▶ SUSTAINABLE SITES	7 OF 14	
▶ WATER EFFICIENCY	3 OF 5	
▶ ENERGY & ATMOSPHERE	13 OF 17	
▶ MATERIAL & RESOURCES	6 OF 13	
▶ INDOOR ENVIRONMENTAL QUALITY	8 OF 15	
▶ INNOVATION	3 OF 5	

LEED Facts
for LEED BD+C: New Construction (v2.2)

Certification awarded Sep 2013

Gold	40
Sustainable sites	7/14
Water efficiency	3/5
Energy & atmosphere	13/17
Material & resources	6/13
Indoor environmental quality	8/15
Innovation	3/5

**12. Provide info of 5 similar projects in size and scope
(Project value, description of work, photo(s), reference contact information)**

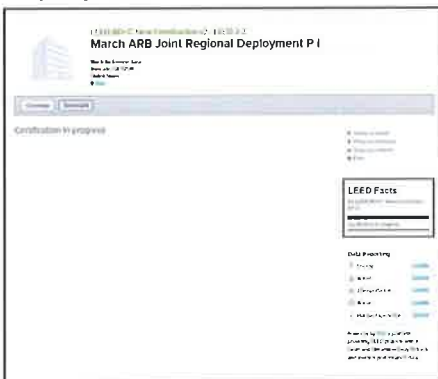
Project #1

Joint Regional Deployment and Processing Center at March ARB Base, CA

Prime Contractor: Macro-Z-Technology (MZT)
 Date of completion: 03/31/17
 Project Value: \$18,107,237
 Owner Reference: U.S. Army Corps of Engineers
 Stuart Royal, Project Engineer (858) 699-9325
 Stuart.a.royal@usace.army.mil

Description: This U.S. Army Corps of Engineers project is for the abatement and demolition an existing 6,400 SF passenger terminal (Building 265) and construction of a new two story, 48,220 SF Joint Regional Deployment Processing Center (JRDPC) for processing the deployment of military personnel and equipment. This facility includes office areas for equipment processing, passenger services, classified briefing rooms, food services and miscellaneous office areas. Site improvements include utility extensions, airfield equipment paving, truck canopy, parking lots (parking area includes large truck parking spaces similar in size to buses), security walls and anti-terrorism/force protection measures. The landscaping and walkways around the building encompassed 23,500 SF. The building included Fire Alarm Mass Notification System with Monaco BTX Transmitter, Wet Pipe Fire Suppression System and a Dry Pipe Fire Suppression System, Commercial Kitchen Components, 2-story Holeless Hydraulic Elevator, Dual Broadcast 1/8" Epoxy Flooring System, Raised Access Floors, Carpet Tile, Ceramic Tile, Commercial Luxury Vinyl Tile, Standing Seam Metal Roofing and Poly Vinyl Chloride Roofing, Composite Wall Panels, Translucent Insulated Wall Panels, ATRP Blast Windows and Glazing's, Stainless Steel and Fire Rated Roll Up Doors.

This facility was designed to meet LEED "Silver" standards. LEED Certification is currently in progress.





Project #2

Design-Build VA Regional Headquarters, Boise, ID

Prime Contractor: Macro-Z-Technology (MZT)

Project Value: \$8,476,966.00

Owner Reference: U.S. Veterans Affairs

James O. Vance, Contracting Officer (208) 334-1645 jim.vance@va.gov

Description: The project consisted of a one (1) story, 25,000 SF, regional office building which will house 91 employees for the Department of Veterans Affairs. This facility included reception area, private offices, modular office cubicle space, training and small meeting spaces, lunch/snack area. This facility also included dedicated HVAC, electrical and janitorial space. Surface parking facilities at the front of the building was designed to accommodate 74 cars and 3 handicapped spaces. A service entrance was developed on the east side of the building in order to serve as a loading dock area.



Site work included: landscaping, site lighting, concrete walkways, parking control systems, and bicycle storage facilities. All underground utilities serving the new building include sanitary sewer, fire water, potable water, gas, geothermal, electrical and telecommunications. A key feature included in the building is the installation of 1st impression graphics in the lobby and a fully automated high-density filing system. The design for this facility included provision for a 16,500 SF second story for biomedical research.

This was the first LEED Gold project for the U.S. Department of Veterans Affairs.



Letter of Reference from Owner

NAVFAC/USACE PAST PERFORMANCE QUESTIONNAIRE

Contractor Information LCC-MZT (Joint Venture)

Firm Name: Macro-Z-Technology

Address: 814 East Washington, Santa Ana, CA 92701

Phone Number (714) 564-1130

Email Address: bzatica@mztco.com

Point of Contact: Mr. Bryan Zatica

CAGE Code: 1G9B3

DUNs Number: 605897420

Contact Phone Number: (714) 564-1130

CLIENT NARRATIVE

Client Information

Name: Jim Vance

Title: Director, VA Regional Office, 444 W. Fort Street, Boise, ID 83702

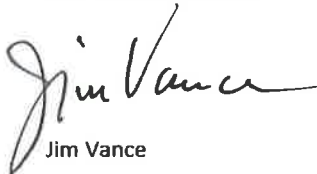
Phone Number: (208) 429-2200

Email Address: jim.vance@va.gov

As the senior local VA (Department of Veterans Affairs) Official and current occupant of this building, we were completely satisfied with the construction project and the resulting building. The contractor finished the project by the date specified in the contract, and we were able to move in on time.

As far as we knew, there were no issues with contractor compliance with either labor or safety standards. At no cost to VA, the contractor and his subs coordinated with the local architect to modify VA's Silver LEED design, and achieved an upgraded LEED Certification at the Gold level, VA's first.

The contractor and his subs built a building for VA that we are proud to occupy. We look forward to MZT's future success.



Jim Vance

May 8, 2012

Project #3

Survival Evasion Resistance and Escape (SERE) Training Facility

Fairchild AFB, WA

Prime Contractor: Macro-Z-Technology (M-ZT)
Date of completion: 11/17/2011
Project Value: \$11,796,543
Owner Reference: U.S. Navy
William Mutter, Construction Manager
360-396-5090 William.Mutter@navy.mil



Description: This project developed a 7 acre complex at the Joint Personnel Recovery Agency SERE Facility immediately North of Fairchild Air Force Base, Spokane, WA. The project consisted of demolition of two storage facilities and clearing and grubbing the site, providing parking, roads, and lighting throughout the site. This project built two training facilities and provided an addition to the existing facility for a medical/mental examination facility. The training facilities, the 26,200SF Training Operations Center (TOC) / Specialized Training Laboratory (STL) and the 17,221SF Resistance Training Laboratory (RTL) and are stand-alone specialized training facilities constructed of split faced masonry block totaling 43,421SF. These facilities contain typical training rooms, break rooms, communication rooms, briefing/conference rooms, restrooms with showers and personal lockers, mechanical/electrical rooms, janitorial rooms and dozens of office spaces with reconfigurable space. Specialized areas within these facilities include, student training areas with dozens of sensory deprivation holding cells, interrogation cells, state-of-the-art CCTV cameras and cabling and a tiered observation gallery room. These two facilities attained LEED "Silver" ratings.

The third facility of this project involved an addition to the existing headquarters building for the 3,818sf Psychiatric Residential Treatment Facility (PRTF). To accommodate the addition, 1,000sf of the existing facility interior was demolished. Even the roof was partially demolished to accommodate the new roof line. The front third of the building exterior that abutted the new addition was de-constructed. Utilities for the addition were extended from the mechanical rooms in the center of the existing building. The tie in for these utilities required running new lines and HVAC ducting in the interstitial space above the ceiling of the existing corridor. The addition encompassed the original entrance to the building. This area was remodeled and incorporated into the PRTF spaces. The addition included the new entrance to the building. All transitions to the new or remodeled areas were carefully matched to the original construction finishes. Upon completion of the demolition, remodeling and addition, the entire facility appeared as a single facility that had never been modified.

M-ZT worked with our designer to fast-track the demolition of the existing facilities and clear and grub for the new roads and the upgrade of utilities from site nearby Fairchild Air Force Base. All of this work was completed with the new infrastructure in place prior to the start of construction of the new buildings.

LEED BD+C: New Construction v2 - LEED 2.2
P-702 Specialized SERE Training Facility

1604 West Newhall Road
Spokane, WA 99224
United States

LEED
CERTIFIED
2013

Overview Scorecard

LEED Scorecard Certified 31/69

- SUSTAINABLE SITES 6 OF 14
- WATER EFFICIENCY 4 OF 5
- ENERGY & ATMOSPHERE 4 OF 17
- MATERIAL & RESOURCES 5 OF 13
- INDOOR ENVIRONMENTAL QUALITY 8 OF 15
- INNOVATION 4 OF 5

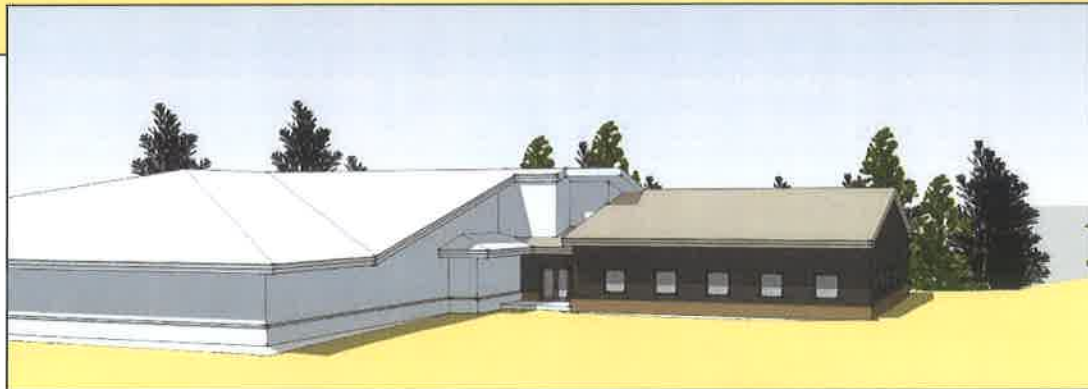
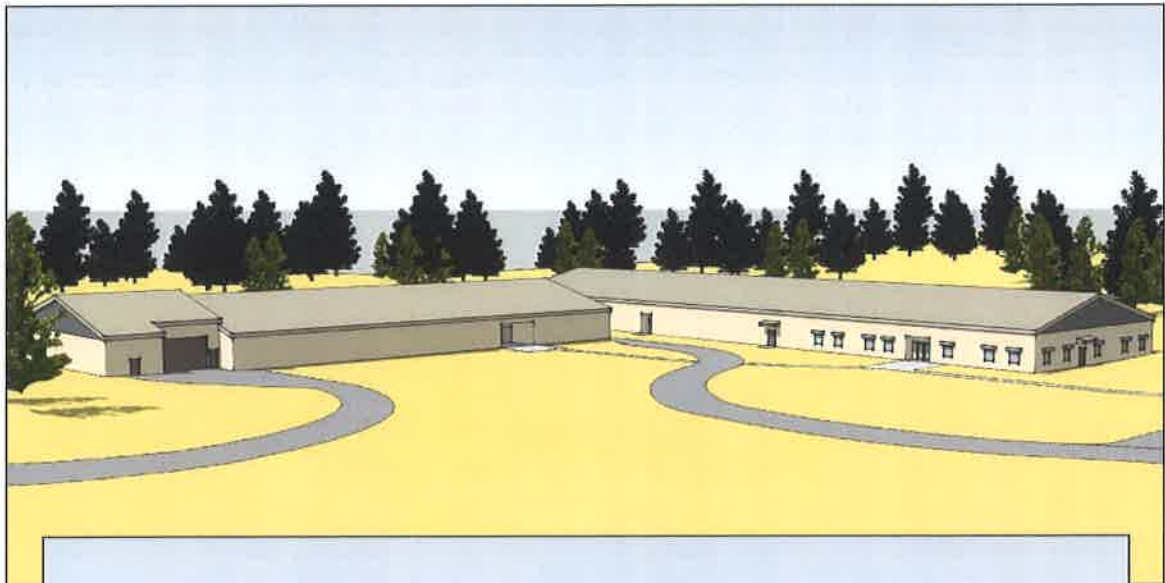
DOWNLOAD SCORECARD

LEED Facts
for LEED BD+C: New Construction (v2.2)

Certification awarded Jan 2013

Certified	31
Sustainable sites	6/14
Water efficiency	4/5
Energy & atmosphere	4/17
Material & resources	5/13
Indoor environmental quality	8/15
Innovation	4/5

The SERE Training Facility was designed and constructed to be a CLASSIFIED building. As such, very limited photographic evidence of the building is allowed to be obtained.



Project #4 Design-Build Joint Warfare Assessment Laboratory / Naval Warfare Center Corona, CA

Prime Contractor: Macro-Z-Technology (M-Z-T)
Date of completion: 07/01/08
Project Value: \$12,594,587
Owner Reference: U.S. Navy
Daniel Punkay
(562) 626-7755



Description: The new facility was designed as a new stand-alone two-story steel-framed 40,000 SF office building with level II security requirements. The building consisted of a lobby/entrance area, conference rooms, classified data filing rooms, a storage room, ADA compliant restrooms, copy rooms, break rooms, electrical rooms, mechanical rooms, janitorial areas, steel staircases with concrete in-fills, an elevator, and large open office areas on each floor. The new facility included Anti-terrorist force protection (ATFP) design provisions.



This facility required the design and installation of high efficiency state-of-the-art electrical and mechanical systems. A raised modular floor system was installed throughout the entire facility providing the building occupants with easy access to all electrical power, telephone/communication, plumbing, HVAC and data through the under floor zone boxes. This modular system allows easy updates of the electrical and mechanical systems.



Electrical work included: electrical distribution, fire alarms, energy-saving electronic monitoring and control systems, information systems, a mass alert system, and the most technically advanced electronics system available. The electrical system utilized zone boxes and plug and play integration with the modular furniture which was supplied by Steelcase. The IT and data system also employed a zone approach to maximize future expansion as well as mobility. Mechanical work included: plumbing, fire protection systems, 750,000 BTU boiler units for heating, an evaporative cooled package chiller plant for air conditioning, 25,000 cfm air handling units and 20 under floor air control units. A state of the art direct digital control system provides energy management and control. A back-up generator sized to serve the entire facility was included.





Outstanding Evaluation from Owner

FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101 and 3.104

PERFORMANCE EVALUATION (CONSTRUCTION)		1. CONTRACT NUMBER N6247306C5001	
INCOMPLETE-RATED		2. CEC NUMBER 605897420	
IMPORTANT: Be sure to complete Part III - Evaluation of Performance Elements on reverse.			
PART I - GENERAL CONTRACT DATA			
3. TYPE OF EVALUATION (X one)		4. TERMINATED FOR DEFAULT	
<input type="checkbox"/> INTERIM (List percentage <u>100</u> %) <input checked="" type="checkbox"/> FINAL <input type="checkbox"/> AMENDED		<input type="checkbox"/>	
5. CONTRACTOR (Name, Address, and ZIP Code) MACRO-Z-TECHNOLOGY COMPANY 841 E WASHINGTON AVE SANTA ANA CA 927013878 USA NAICS Code: 236220		6.a. PROCUREMENT METHOD (X one) <input type="checkbox"/> SEALED BID <input checked="" type="checkbox"/> NEGOTIATED (Design-Build)	
		b. TYPE OF CONTRACT (X one) <input checked="" type="checkbox"/> FIRM FIXED PRICE <input type="checkbox"/> COST REIMBURSEMENT <input type="checkbox"/> OTHER (Specify)	
7. DESCRIPTION AND LOCATION OF WORK New construction of Laboratory addition at Naval Warfare Center, Corona, CA			
8. TYPE AND PERCENT OF SUBCONTRACTING A/E Design 6% HVAC 10% Electrical 10% Access Control 12%			
9. FISCAL DATA		a. AMOUNT OF BASIC CONTRACT \$9,833,000	b. TOTAL AMOUNT OF MODIFICATIONS \$2,786,861
		c. LIQUIDATED DAMAGES ASSESSED	d. NET AMOUNT PAID CONTRACTOR \$12,594,587
10. SIGNIFICANT DATES		a. DATE OF AWARD 03/31/2006	b. ORIGINAL CONTRACT COMPLETION DATE 06/14/2007
		c. REVISED CONTRACT COMPLETION DATE 07/19/2008	d. DATE WORK ACCEPTED 07/01/2008
PART II - PERFORMANCE EVALUATION OF CONTRACTOR			
11. OVERALL RATING (X appropriate block)			
<input checked="" type="checkbox"/> OUTSTANDING <input type="checkbox"/> ABOVE AVERAGE <input type="checkbox"/> SATISFACTORY <input type="checkbox"/> MARGINAL <input type="checkbox"/> UNSATISFACTORY (Explain in Item 20 on reverse)			
12. EVALUATED BY			
a. ORGANIZATION (Name and Address (Include ZIP Code)) NAVFAC SW SEAL BEACH AREA		b. TELEPHONE NUMBER (Include Area Code) 562 626 7755	
c. NAME AND TITLE DAN PUNKAY SUPERV GENL ENGINEER		d. SIGNATURE //Electronically Signed//	e. DATE 01/29/2009
13. EVALUATION REVIEWED BY			
a. ORGANIZATION (Name and Address (Include ZIP Code))		b. TELEPHONE NUMBER (Include Area Code)	
c. NAME AND TITLE		d. SIGNATURE	e. DATE
14. AGENCY USE (Distribution, etc.)			

DD FORM 2626. JUN 94 (EG)

EXCEPTION TO SF 1420 APPROVED BY GSA/IRMS 6-94

FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101 and 3.104

PART III - EVALUATION OF PERFORMANCE ELEMENTS													
N/A = NOT APPLICABLE O = OUTSTANDING A = ABOVE AVERAGE S = SATISFACTORY M = MARGINAL U = UNSATISFACTORY													
15. QUALITY CONTROL	N/A	O	A	S	M	U	16. EFFECTIVENESS OF MANAGEMENT	N/A	O	A	S	M	U
a. QUALITY OF WORKMANSHIP		X					a. COOPERATION AND RESPONSIVENESS		X				
b. ADEQUACY OF THE CQC PLAN		X					b. MANAGEMENT OF RESOURCES/ PERSONNEL		X				
c. IMPLEMENTATION OF THE CQC PLAN		X					c. COORDINATION AND CONTROL OF SUBCONTRACTOR(S)			X			
d. QUALITY OF QC DOCUMENTATION		X					d. ADEQUACY OF SITE CLEAN-UP		X				
e. STORAGE OF MATERIALS		X					e. EFFECTIVENESS OF JOB-SITE SUPERVISION			X			
f. ADEQUACY OF MATERIALS		X					f. COMPLIANCE WITH LAWS AND REGULATIONS		X				
g. ADEQUACY OF SUBMITTALS		X					g. PROFESSIONAL CONDUCT		X				
h. ADEQUACY OF QC TESTING		X					h. REVIEW/RESOLUTION OF SUBCONTRACTOR'S ISSUES		X				
i. ADEQUACY OF AS-BUILTS		X					i. IMPLEMENTATION OF SUBCONTRACTING PLAN			X			
j. USE OF SPECIFIED MATERIALS		X					18. COMPLIANCE WITH LABOR STANDARDS						
k. IDENTIFICATION/CORRECTION OF DEFICIENT WORK IN A TIMELY MANNER		X					a. CORRECTION OF NOTED DEFICIENCIES		X				
17. TIMELY PERFORMANCE							b. PAYROLLS PROPERLY COMPLETED AND SUBMITTED		X				
a. ADEQUACY OF INITIAL PROGRESS SCHEDULE		X					c. COMPLIANCE WITH LABOR LAWS AND REGULATIONS WITH SPECIFIC ATTENTION TO THE DAVIS-BACON ACT AND EEO REQUIREMENTS		X				
b. ADHERENCE TO APPROVED SCHEDULE		X					19. COMPLIANCE WITH SAFETY STANDARDS						
c. RESOLUTION OF DELAYS		X					a. ADEQUACY OF SAFETY PLAN		X				
d. SUBMISSION OF REQUIRED DOCUMENTATION		X					b. IMPLEMENTATION OF SAFETY PLAN		X				
e. COMPLETION OF PUNCHLIST ITEMS		X					c. CORRECTION OF NOTED DEFICIENCIES		X				
f. SUBMISSION OF UPDATED AND REVISED PROGRESS SCHEDULES		X					20. REMARKS (Explanation of unsatisfactory evaluation is required. Other comments are optional. Provide facts concerning specific events or actions to justify the evaluation. These data must be in sufficient detail to assist contracting officers in determining the contractor's responsibility. Continue on separate sheet(s), if needed.)						
g. WARRANTY RESPONSE		X					EVALUATOR REMARKS: The contractor performed outstanding work. The management was cooperative and managed their resources well. There were several time extensions due to changes to work and unforeseen conditions. There were several modifications issued due to customer requests. A portion of demolition work was suspended due to concerns from SHPO and other organizations pertaining to historical significance of the buildings to be demolished under the contract. The contractor has responded in a timely manner to warranty issues.						
CONTRACTOR REMARKS: This project is a great example of Partnering between the End User, Navy and the Contractor. This project had several outside pressures from external forces that could have stopped the project. However, though Partnering and cooperation between the Navy and the Contractor, the End User received a great facility.													
CONCURRENCE: I concur with this evaluation. CONTRACTOR NAME: BRYAN ZATICA TITLE: PRESIDENT PHONE: 714-564-1130													

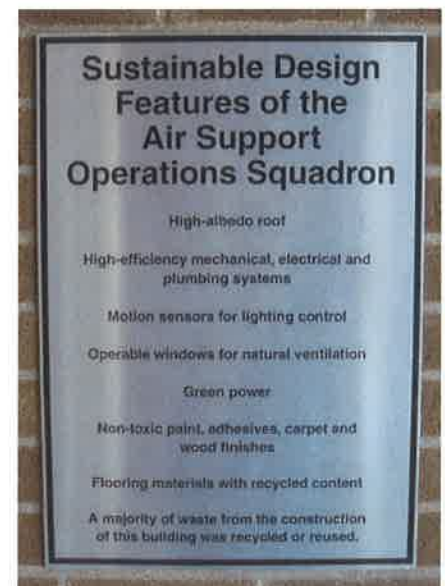
DD FORM 2626 (BACK), JUN 94

Project #5 Design-Build Air Support Operations Squadron (ASOS) Complex Fort Lewis, WA

Prime Contractor: Macro-Z-Technology (MZT)
Date of completion: 10/24/2008
Project Value: \$13,160,778
Owner Reference:
U.S. Army Corps of Engineers
Rieta Kauzlarich
(253) 912-0931 Rieta.C.Kauzlarich@usace.army.mil

Description:

This project constructed four separate functions: The 34,000sf two story masonry Headquarters Facility that included offices, training rooms, meeting/conference rooms with audio visual equipment, mission planning and schedule rooms, briefing rooms, armory and telecommunication rooms including a SCIF and vaults. A 9,000sf structural steel maintenance garage was attached to the headquarters facility. The maintenance garage included a high-bay maintenance area for the maintenance of Stryker vehicles and other ASOS support vehicles, a generator maintenance bay, a material control office, as well as fueling facilities. The high-bay area was equipped with a vehicle exhaust system capable of handling six (6) vehicles. Two 1,850 pre-engineered outbuildings were constructed to house the MRSP supply storage and field electronics maintenance and repair shop, battery storage and tool and parts storage vault and issue. A natural gas back-up power generator was installed for the complex. MZT installed the site utilities (hot water piping, electrical and telecommunications conduit), including all trench excavation, manhole installation and backfill work.



OTHER MZT Relevant Project List

CMAR Kraemer Homeless Shelter, Orange County, CA

\$8M Completion May '18

Conversion of existing industrial complex into a Year-Round Emergency Shelter multi-service center to serve 200 homeless people. Project includes kitchen dining area, berthing, Shower facilities, animal kennel, medical and mental health offices.



Administration and Warehouse Buildings, Kernville, CA

\$8.8M Completion Nov '17

This project clears and grubs a 5 acre site and constructs a new 20,000 SF ranger station and warehouse facility complete with visitors areas, offices, men's and women's restrooms with showers, kitchen, garage and warehouse space. A standing seam metal roof is provided for shedding snow loads. Building is designed with solar panels, emergency back-up power supply, ground source heat pump and other energy conserving measures.



Design-Build USAF Physiological Training Unit (PTU) at Fairchild Air Force Base, Spokane, WA

\$6.65M Completion Aug '10

This fast-track design-build new PTU facility incorporates a standing seam metal roof system, load-bearing split face concrete masonry exterior walls with integral color intermixed with hardened windows meeting UFC 4-010-01 requirements. Interior spaces include open and private office areas, training room, break room, classrooms, Hypobaric Chamber space, oxygen and pump rooms, recovery room, men's and women's restroom/locker and shower and miscellaneous spaces for mechanical, electrical and communication equipment.

The new PTU was designed and constructed to attain LEED "Silver" certification



Construct Army Reserve Center, Hayden Lake, ID

\$8.86M Completion Oct '10

The project consists of developing a 10 Acres parcel at the Coeur d'Alene airport and constructing a 24,412 square foot Army Reserve Center (ARC), a 7,358 square foot Operational Maintenance Shop (OMS), 915 Square foot Unheated Storage Building (UHS), 1040 square foot Covered Wash Bay (CWB) and a concrete loading Dock/Ramp. The Army Reserve Center consists of administration, training and armory facilities for army reservists. The building construction is Concrete Masonry Units (CMU) with brick Veneer and standing seam metal roof. Other features of the building include: a security system for armory vault and secure rooms, doors and windows that meet Anti-Terrorism Force Protection Standards (ATFP), an Indoor Weapons Simulator, Physical Readiness Training Facilities. Constructed to meet LEED "Silver" criteria.

Design-Build Implement Energy Renovations 11 Berthing Buildings at Naval Base Kitsap, Bremerton and Jackson Park, WA

\$6.62M Completion May '16

This project renovated restrooms, mechanical equipment and lighting in 11 separate berthing buildings, BEQs, at Naval Base Kitsap. Renovations incorporated recommendations from an energy conservation study and were focused on a payback of less than 7 years. The buildings were occupied at the time of our construction.

Joint Transportation Center, Marysville, WA

\$7.75M Completion May '14

The 41,000SF facility was constructed of insulated concrete tilt up panels with metal truss roof system. The 30,000SF maintenance area included 15 maintenance bays with motorized roll-up doors overhead drops for the exhaust collection system and compressed air, electricity and grease. Two of the maintenance bays included 4-post vehicle lifts for working under the buses. The building included a 2-ton bridge crane, a natural gas radiant heating system and translucent Lexan panels incorporated into the roofing system. A wide bay truck wash is incorporated into the north end of the building with a two-chemical brushless wash system and water reclamation and reuse. The low bay office areas included office and conference rooms, locker and shower areas, restrooms, lunchroom and dispatch/communication room. The dispatch room was equipped with battery backup for 15 minutes to last until the emergency generator was assured to be operational.

Design/Build Renovate B3735,B4900,B4904 and Demolish B2650, Edwards Air Force Base, CA

\$4.98M Completion Feb '14

This project remodeled / altered over 30,000SF of existing spaces within three existing buildings and demolished an existing building. The remodel of over 30,000SF in buildings 3735, 4900 and 4904 to make higher density office space and in B4904 converted warehouse space to new office space. All areas required demolition of existing finishes, new HVAC renovations / extensions or new boilers (B4904), new electrical distribution and transformers, reconfiguration of spaces requiring demolition of walls and new walls, wiring for the new systems furniture, new sheet rock, painting, lighting fixtures, etc.

P-913 Explosive Handling Wharf Security Force Facility at the Naval Submarine Base Bangor, Silverdale, WA

\$12.7M Completion May '15

This project constructs a highly secure (IBC Construction Type 1) 14,200SF facility with concrete foundations and floor slab, reinforced concrete walls and reinforced concrete roof. The facility includes sleeping berths, kitchen and dining area, exercise/physical fitness area, secure munitions storage, alarm/entry security protection. Built in equipment included warming galley equipment, telecommunication system racks, lockers and showers. This facility also housed two Bear Cat response vehicles in the secure garage with ventilation and exhaust capture system.

Design-Build Building 1000, Bachelor's Enlisted Quarters (BEQ) Repairs and Renovations at Naval Base Kitsap, Bremerton, WA

\$7.75M Completion Jan '08

The scope of work for the project consisted of various renovations and repairs to the 13 story high rise BEQ Building 1000 at Naval Base Kitsap. The work the buildings including, but not limited to: (1) the design-build construction of a Pressure Equalized Rain Screen (PERS) of the Exterior Metal Building; (2) the removal and disposal of the entire existing building exterior EIFS system and complete abatement of all mold contaminated building components. (3) the complete removal and replacement of existing carpet, cleaning of all contaminated surfaces including the entire HVAC system and painting of all of the suite walls on floors 2 thru 12; (4) the upgrade and integration of the building's Edwards EST-3 fire alarm panel; and (5) the upgrade of both elevators

Addition and Renovation of Fire Station at Naval Air Station Whidbey Island, Oak Harbor, WA

\$4.31M Completion Nov '07

The new 27,000sf structure was designed with all of the public spaces, such as training areas, office areas and equipment bays on the ground floor.. The living areas for fire-fighting personnel are located on the second floor. Special consideration was taken during the design of the living areas for quality of life issues such as, berthing quarters, lounge area, industrial kitchen, and dining area. Special ductless heat pump units were installed in the berthing quarters to preclude any sound entering the area through HVAC ducting.



Waterfront Security Force Facility SWFPAC at Naval Submarine Base Bangor, Silverdale, WA

\$6.93M Completion Jun '06

Macro-Z-Technology built a new one story 13,500 sf concrete reinforced structure. This building is a ballistic-proof concrete bunker that houses the Strategic Weapons Force of the Pacific and the Navy Sergeant of the Guard to bear the security for the nuclear submarines on the Hood Canal. The interior has a kitchen, heads and sleeping quarters. The 27' tall walls were poured monolithically from top to bottom to accommodate the ballistic proof requirements. The slab is tied into these walls. The building is air and water tight and is completely encased in concrete to eliminate penetration from the outside. Work included tying into the existing utilities at the roadway. In addition to other work, MZT installed a storm drain pipe to a distilling basin. The project included the installation of ballistic, bullet proof doors and break away roll up doors. Upon completion, the building allows the Navy to install additional features at a later date. The project had very stringent environmental controls because the facility lies between two wetland areas and is located on the Hood Canal