



May 11, 2021

ADDENDUM NO. 1

**RE: POINSETTIA COMMUNITY PARK PHASE IV, PROJECT NO.: 4608
BID NO. PWS21-1452PKS**

Please include the attached addendum in the Notice to Bidder/Request for Bids you have for the above project.

This addendum--receipt acknowledged--must be attached to your Request for Bid when your bid is submitted.

Graham Jordan

GRAHAM JORDAN
Contract Administrator

I ACKNOWLEDGE RECEIPT OF ADDENDUM NO. 1

Bidder's Signature

CITY OF CARLSBAD

**Poinsettia Community Park Phase IV – Dog Park,
Restroom & Parking Lot**

**Contract No. 4608
Bid No. PWS21-1452PKS**

Addendum No. 1

From: Graham Jordan, Contract Administrator
Phone: 760-602-2462
graham.jordan@carlsbadca.gov

No. of Pages: 31 pages (including this page)

Date: May 11, 2021

Bid Opening Date: May 18, 2021 - 11:00 a.m. (unchanged)

NOTICE:

This Addendum forms a part of the Contract Documents for the above identified project and modifies portions of the original Contract Specifications. Documents not specifically mentioned in this Addendum remain in full force.

Acknowledge receipt of this Addendum on the Bid Form. Failure to do so may subject bidder to disqualification.

MODIFICATIONS, DELETIONS, AND ADDITIONS TO SPECIFICATIONS

ITEM NO. 1: REVISED SPECIFICATIONS:

Specifications Section 7.10.1.1 Special Events (Page No. 103) has been updated. The update, shown in strikethrough text, removes the reference to limited work hours during TGIF Concerts. **Replace page 103 in the Poinsettia Community Park Phase IV Contract Documents with revised page 103, attached herein (Attachment A).**

ITEM NO. 2: REVISED TECHNICAL SPECIFICATIONS TABLE OF CONTENTS:

The Technical Provisions Table of Contents has been updated. The revisions, shown in bold underlined text, adds two new Specification Sections (Items 3 and 4 below) to the Table of Contents. **Replace Technical Provisions Table of Contents with revised pages, attached herein (Attachment B).**

ITEM NO. 3: SPECIFICATION, SECTION 26 22 13 – LOW VOLTAGE DISTRIBUTION TRANSFORMERS;

A new Section 26 22 13 – Low Voltage Distribution Transformers has been added to the Technical Provisions. **Add Section 26 22 13 – LOW VOLTAGE DISTRIBUTION TRANSFORMERS, attached herein, to the Technical Provisions (Attachment C).**

ITEM NO. 4: SPECIFICATION, SECTION 26 24 16- PANELBOARDS;

A new Section 26 24 16 – Panelboards has been added to the Technical Provisions. **Add Section 26 24 16 – Panelboards, attached herein, to the Technical Provisions (Attachment D).**

ITEM NO. 5: REVISED ELECTRICAL SHEETS;

Electrical Plan sheets SE-1.1 and SE-2.0 (Page Nos. 10 and 13) have been revised. Update includes minor revisions to the plans shown in clouded areas identified as Delta 1. **Replace sheets in the Poinsettia Community Park Phase IV Construction Documents with revised sheets SE-1.1 and SE-2.0, attached herein (Attachment E).**

QUESTIONS AND ANSWERS

Questions relating to the project must go directly to the City's Public Works Contract Administration Division. The City is not responsible for any information obtained through other means.

1. Can you please tell me if general contractors have to be prequalified to bid on this project? If so, please provide me with that information.
No, there is no pre-qualification for this project.
2. The ad states that there is a license class A requirement, at the moment we are a class B-General but we have class A subcontractors, and we have done similar jobs in the past. Will we be able to bid on this project?
Sorry, no, the prime contractor must have an A – General Engineering license.
3. Can a contractor bid this job as both sub-contractor and prime contractor?
There is nothing preventing a contractor from bidding as both a prime and a subcontractor. However, please know that all contractors must abide by section 4100 et seq. of the Public Contract Code (PCC) regarding subcontracting (please see pages 25-27 of the bid documents) and PCC section 7106 regarding noncollusion (see page 34 of the bid documents).
4. General Provisions Section 6-7.2 states that work hours are 7:00 a.m. to 4:00 p.m., Monday through Friday (unless approved in writing by the Engineer). Romtec's installation crew typically prefers to work the hours of 7:00 a.m. to 7:00 p.m., Monday through Saturday. Will the Engineer approve Romtec's typical work hours of 7:00 a.m. to 7:00 p.m., Monday through Saturday for the Romtec's scope of installation work of the restroom building?
No, the contractor must adhere to the specified work hours for installation of the restroom building.
5. General Provisions Section 7-10.1.1 states that up to four (4) Fridays during the summer are required half-days, with work required to cease after 12:00 p.m. on those days to allow for public TGIF concerts. Has a determination been made as to which specific summer

Fridays (if any) will have the TGIF concerts and be required half-days for onsite installation work?

Disregard this provision. TGIF concerts have been cancelled this year due to the Covid-19 Pandemic.

6. Do you have a list of certified installers for the Romtec Restroom & Trellis?

No, there is not a list of certified installers and the bid specifications do not require 'certified' installers for the Romtec restroom building. The Bidder or designated subcontractor is required to submit references demonstrating technical ability and experience as specified in Technical Specification Section 13 34 23 – Pre-Engineered Restroom Building, Part 3 – Building Installer Scope.

7. I'm writing to ask if you would please send me the bid results from the first Poinsettia Community Park Phase IV - Dog Park, Restroom & Parking Lot bid cycle, (Invitation # PWS21-1306PKS). Could you also please include the apparent low bidder's breakdown and listed sub-contractors?

See Attachment F.

8. Section 8-2 of General Provisions, states that a 600 SF field office shall be provided by the Contractor for the exclusive use by the Engineer. Has the City designated an area on-site for such a large office trailer?

Contractor may place the Engineer's Field Office at the southerly end of the parking lot located south of the main entrance to the park. Electric power must be provided and all requirements of Contract Specifications Section 8 – Facilities for Agency Personnel must be met. Contractor may also place their staff trailer adjacent to the Engineer's Field Office. Contractor shall obtain approval from the Parks Services Manager prior to delivery and set up.

9. Sheet 2 of 36 (aka C-1.0) of the project plans states that there are 1524 CY of Remedial Excavation work. In reviewing all 36 sheets of the plans and reviewing the contract documents, we found small areas of Remedial work that does not generate such a large dirt quantity of 1524 CY. Will the City be able to let bidders know all the perimeters of the Remedial work and how it determined this cubic yardage?

The remedial grading quantity is based on the recommendations of the soils report. It includes both over-excavation/recompaction and scarification/recompaction depending on the proposed improvements, as outlined in the soils report.

10. Can you confirm there are three (3) separate electrical panels that are to be located in the Romtec building: two (2) 3-phase panels in the Electrical Room and one (1) 1-phase in the Mechanical Room?

Contractor shall supply two (2) 3-Phase Panels (panel "LF" & "PF") and install the panels in the Romtec Restroom Electrical Room. The 1-Phase Panel in the Mechanical Room will be supplied by Romtec and installed by Contractor.

11. Does the 3-phase panel "PF" located in the Electrical Room replace the Romtec supplied "200A, single-phase, NEMA 4X rated breaker panel" included in the Romtec plans?

No, it does not replace the Romtec supplied 1-Phase Panel.

12. Which 3-phase panel ("PF" or "LF") will supply the 1-phase electrical feed to the Romtec supplied "200A, single-phase, NEMA 4X rated breaker panel"?

Contractor shall provide a single- phase feed from the 3-Phase Panel ("PF") to the Romtec supplied 1-Phase Panel.

ATTACHMENT A

REVISED PAGE 103

The Contractor shall give reasonable notice to occupants or owners of adjacent property to permit them to salvage or relocate plants, trees, fences, sprinklers, and other improvements, within the right-of-way which are designated for removal and would be destroyed because of the Work.

All costs to the Contractor for protecting, removing, and restoring existing improvements shall be included in the Bid.

7-10 PUBLIC CONVENIENCE AND SAFETY.

7-10.1 Park Access. Poinsettia Community Park will remain open to the public during construction of this project. All equipment and tools shall not be a nuisance or hazard to the general public and shall be removed at the end of the working day. Equipment left on the property overnight and unattended shall be the sole responsibility of the Contractor. Contractor shall protect the work site from other ongoing park operations and activities and for public protection and safety. Contractor shall keep the work site picked up and free of litter, tools, equipment and all other construction related materials. Contractor will only be allowed to stockpile materials on site in fenced designated areas as directed by the Parks Services Manager. City will not be responsible for materials or equipment contractor stockpiles or leaves at the site unattended.

~~**7-10.1.1 Special Events.** No work shall be performed by the contractor after 12:00 p.m. on Friday when TGIF Concerts in the Park are scheduled at Poinsettia Community Park. TGIF Concerts occur up to four times during the summer months.~~

7-10.2 Traffic and Access. The Contractor's operations shall cause no unnecessary inconvenience. The access rights of the public shall be considered at all times. Unless otherwise authorized, traffic shall be permitted to pass through the Work, or an approved detour shall be provided.

Safe and adequate pedestrian and vehicular access shall be provided and maintained to: fire hydrants; commercial and industrial establishments; churches, schools and parking lots; service stations and motels; hospitals; police and fire stations; and establishments of similar nature. Access to these facilities shall be continuous and unobstructed unless otherwise approved by the Engineer.

Safe and adequate pedestrian zones and public transportation stops, as well as pedestrian crossings of the Work at intervals not exceeding 90 m (300 feet), shall be maintained unless otherwise approved by the Engineer.

Vehicular access to residential driveways shall be maintained to the property line except when necessary construction precludes such access for reasonable periods of time. If backfill has been completed to the extent that safe access may be provided, and the street is opened to local traffic, the Contractor shall immediately clear the street and driveways and provide and maintain access.

The Contractor shall cooperate with the various parties involved in the delivery of mail and the collection and removal of trash and garbage to maintain existing schedules for these services.

Grading operations, roadway excavation and fill construction shall be conducted by the Contractor in a manner to provide a reasonably satisfactory surface for traffic. When rough grading is completed, the roadbed surface shall be brought to a smooth, even condition satisfactory for traffic.



ATTACHMENT B

REVISED TECHNICAL PROVISIONS TABLE OF CONTENTS

Poinsettia Community Park Phase IV - Dog Park, Restroom & Parking Lot

Technical Provisions

Project Landscape Architect:
Jeffrey T. Barr, Schmidt Design Group, Inc.
1310 Rosecrans Street, Suite G
San Diego, CA 92106
(619) 236-1462
SDG Project #: 18-403
Date: October 2020

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ATTACHMENT C

SECTION 26 22 13 – LOW VOLTAGE DISTRIBUTION TRANSFORMERS

SECTION 26 22 13 - LOW-VOLTAGE DISTRIBUTION TRANSFORMERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes distribution, dry-type transformers with a nominal primary and secondary rating of 600 V and less, with capacities up to 1500 kVA.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings:
 - 1. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 2. Vibration Isolation Base Details: Detail fabrication including anchorages and attachments to structure and to supported equipment.

1.3 INFORMATIONAL SUBMITTALS

- A. Source quality-control reports.
- B. Field quality-control reports.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.5 QUALITY ASSURANCE

- A. Testing Agency Qualifications: Accredited by NETA.
 - 1. Testing Agency's Field Supervisor: Certified by NETA to supervise on-site testing.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Schneider
- B. Eaton
- C. ABB/GE
- D. Seimens

2.2 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Transformers shall withstand the effects of earthquake motions determined according to ASCE/SEI 7
 - 1. The term "withstand" means "the transformer will remain in place without separation of any parts when subjected to the seismic forces specified"

2.3 GENERAL TRANSFORMER REQUIREMENTS

- A. Description: Factory-assembled and -tested, air-cooled units for 60-Hz service.
- B. Comply with NFPA 70.
 - 1. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and use.
- C. Transformers Rated 15 kVA and Larger:
 - 1. Comply with 10 CFR 431 (DOE 2016) efficiency levels.
 - 2. Marked as compliant with DOE 2016 efficiency levels by an NRTL.
- D. Cores: Electrical grade, non-aging silicon steel with high permeability and low hysteresis losses.
- E. Coils: Continuous windings without splices except for taps.
 - 1. Coil Material: Copper.
 - 2. Internal Coil Connections: Brazed or pressure type.
 - 3. Terminal Connections: Bolted
- F. Shipping Restraints: Paint or otherwise color-code bolts, wedges, blocks, and other restraints that are to be removed after installation and before energizing. Use fluorescent colors that are easily identifiable inside the transformer enclosure.

2.4 DISTRIBUTION TRANSFORMERS

- A. Comply with NFPA 70
- B. Cores: One leg per phase.
- C. Enclosure: Ventilated
 - 1. NEMA 1 Core and coil shall be encapsulated within resin compound to seal out moisture and air.
 - 2. KVA Ratings: Based on convection cooling only
 - 3. Wiring Compartment: Sized for conduit entry and wiring installation.
- D. Taps for Transformers 25 kVA and Larger: Two 2.5 percent taps above and two 2.5 percent taps below normal full capacity
- E. Insulation Class, 30 kVA and Larger: 220 deg C, UL-component-recognized insulation system with a maximum of 150 deg C rise above 40 deg C ambient temperature.
- F. Grounding: Provide ground-bar kit or a ground bar installed on the inside of the transformer enclosure.

2.5 IDENTIFICATION

- A. Nameplates: Engraved, laminated-acrylic or melamine plastic signs for each distribution transformer, mounted with corrosion-resistant screws. Nameplates and label products are specified in Section "Identification for Electrical Systems."

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine conditions for compliance with enclosure- and ambient-temperature requirements for each transformer.
- B. Verify that field measurements are as needed to maintain working clearances required by NFPA 70 and manufacturer's written instructions.
- C. Examine walls, floors, roofs, and concrete bases for suitable mounting conditions where transformers will be installed.
- D. Verify that ground connections are in place and requirements in Section "Grounding and Bonding for Electrical Systems" have been met. Maximum ground resistance shall be 5 ohms at location of transformer.

3.2 INSTALLATION

- A. Install transformers level and plumb on a concrete base with vibration-dampening supports. Locate transformers away from corners and not parallel to adjacent wall surface.
 - 1. Coordinate size and location of concrete bases with actual transformer provided. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified with concrete.
- B. Secure transformer to concrete base according to manufacturer's written instructions.
- C. Secure covers to enclosure and tighten all bolts to manufacturer-recommended torques to reduce noise generation.
- D. Remove shipping bolts, blocking, and wedges.

3.3 CONNECTIONS

- A. Ground equipment according to Section "Grounding and Bonding for Electrical Systems."
- B. Connect wiring according to Section "Low-Voltage Electrical Power Conductors and Cables."
- C. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A-486B.
- D. Provide flexible connections at all conduit and conductor terminations and supports to eliminate sound and vibration transmission to the building structure.

3.4 FIELD QUALITY CONTROL

- A. Perform tests and inspections with the assistance of a factory-authorized service representative.
- B. Small (Up to 167-kVA Single-Phase or 500-kVA Three-Phase) Dry-Type Transformer Field Tests:
 - 1. Visual and Mechanical Inspection.
 - a. Inspect physical and mechanical condition.
 - b. Inspect anchorage, alignment, and grounding.
 - c. Verify that resilient mounts are free and that any shipping brackets have been removed.
 - d. Verify the unit is clean.

- e. Perform specific inspections and mechanical tests recommended by manufacturer.
- f. Verify that as-left tap connections are as specified.
- g. Verify the presence of surge arresters and that their ratings are as specified.

2. Electrical Tests:

- a. Measure resistance at each winding, tap, and bolted connection.
 - b. Perform insulation-resistance tests winding-to-winding and each winding-to-ground. Apply voltage according to manufacturer's published data. In the absence of manufacturer's published data, comply with NETA ATS, Table 100.5. Calculate polarization index: the value of the index shall not be less than 1.0.
 - c. Perform turns-ratio tests at all tap positions. Test results shall not deviate by more than one-half percent from either the adjacent coils or the calculated ratio. If test fails, replace the transformer.
 - d. Verify correct secondary voltage, phase-to-phase and phase-to-neutral, after energization and prior to loading.
- C. Remove and replace units that do not pass tests or inspections and retest as specified above.
- D. Test Labeling: On completion of satisfactory testing of each unit, attach a dated and signed "Satisfactory Test" label to tested component.

3.5 CLEANING

- A. Vacuum dirt and debris; do not use compressed air to assist in cleaning.

END OF SECTION 26 22 13

ATTACHMENT D

SECTION 26 24 16 – PANELBOARDS

SECTION 26 24 16 - PANELBOARDS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Lighting and appliance branch-circuit panelboards.

1.2 DEFINITIONS

- A. MCCB: Molded-case circuit breaker.
- B. SPD: Surge protective device.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of panelboard.
- B. Shop Drawings: For each panelboard and related equipment.
 - 1. Include dimensioned plans, elevations, sections, and details.
 - 2. Detail enclosure types including mounting and anchorage, environmental protection, knockouts, corner treatments, covers and doors, gaskets, hinges, and locks.
 - 3. Detail bus configuration, current, and voltage ratings.
 - 4. Short-circuit current rating of panelboards and overcurrent protective devices.
 - 5. Include evidence of NRTL listing for series rating of installed devices.

1.4 INFORMATIONAL SUBMITTALS

- A. Panelboard schedules for installation in panelboards.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.6 FIELD CONDITIONS

- A. Service Conditions: NEMA PB 1, usual service conditions, as follows:
 - 1. Ambient temperatures within limits specified.
 - 2. Altitude not exceeding 6600 feet (2000 m).

1.7 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace panelboards that fail in materials or workmanship within specified warranty period.

1. Panelboard Warranty Period: 18 months from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PANELBOARDS COMMON REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Manufacturers: Eaton, Schneider, Siemens, ABB/GE
- C. Comply with NEMA PB 1.
- D. Comply with NFPA 70.
- E. Enclosures: dead-front cabinets.
1. Rated for environmental conditions at installed location.
 - a. Indoor Dry and Clean Locations: NEMA 250, Type 1
 2. Height: 84 inches (2.13 m) maximum.
 3. Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box. Trims shall cover all live parts and shall have no exposed hardware.
 4. Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover. Trims shall cover all live parts and shall have no exposed hardware.
- F. Incoming Mains Location: Top or Bottom
- G. Phase, Neutral, and Ground Buses: Hard-drawn copper, 98 percent conductivity
- H. Conductor Connectors: Suitable for use with conductor material and sizes.
1. Material: Hard-drawn copper, 98 percent conductivity
 2. Main and Neutral Lugs: Mechanical type, with a lug on the neutral bar for each pole in the panelboard.
 3. Ground Lugs and Bus-Configured Terminators: Mechanical type, with a lug on the bar for each pole in the panelboard.
- I. NRTL Label: Panelboards shall be labeled by an NRTL acceptable to authority having jurisdiction for use as service equipment with one or more main service disconnecting

and overcurrent protective devices. Panelboards shall have meter enclosures, wiring, connections, and other provisions for utility metering. Coordinate with utility company for exact requirements.

- J. Future Devices: Panelboards shall have mounting brackets, bus connections, filler plates, and necessary appurtenances required for future installation of devices.
- K. Panelboard Short-Circuit Current Rating: Fully rated to interrupt symmetrical short-circuit current available at terminals. Assembly listed by an NRTL for 100 percent interrupting capacity.

2.2 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Panelboards shall withstand the effects of earthquake motions determined according to ASCE/SEI 7
 - 1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."

2.3 LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

- A. Panelboards: NEMA PB 1, lighting and appliance branch-circuit type.
- B. Mains: As indicated on plans
- C. Branch Overcurrent Protective Devices Bolt-on circuit breakers, replaceable without disturbing adjacent units.
- D. Doors: Concealed hinges; secured with flush latch with tumbler lock; keyed alike.

2.4 OVERCURRENT PROTECTIVE DEVICES

- A. MCCB: Comply with UL 489, with interrupting capacity to meet available fault currents.
 - 1. Thermal-Magnetic Circuit Breakers:
 - a. Inverse time-current element for low-level overloads.
 - b. Instantaneous magnetic trip element for short circuits.
 - c. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.

2.5 IDENTIFICATION

- A. Panelboard Label: Manufacturer's name and trademark, voltage, amperage, number of phases, and number of poles shall be located on the interior of the panelboard door.

- B. Breaker Labels: Faceplate shall list current rating, UL and IEC certification standards, and AIC rating.
- C. Circuit Directory: Directory card inside panelboard door, mounted in transparent card holder

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with NECA 1.
- B. Mount top of trim 90 inches (2286 mm) above finished floor unless otherwise indicated.
- C. Mount panelboard cabinet plumb and rigid without distortion of box.
- D. Mount recessed panelboards with fronts uniformly flush with wall finish and mating with back box.
- E. Install overcurrent protective devices and controllers not already factory installed.
- F. Make grounding connections and bond neutral for services and separately derived systems to ground. Make connections to grounding electrodes, separate grounds for isolated ground bars, and connections to separate ground bars.
- G. Install filler plates in unused spaces.
- H. Arrange conductors in gutters into groups and bundle and wrap with wire ties.

3.2 IDENTIFICATION

- A. Identify field-installed conductors, interconnecting wiring, and components; install warning signs complying with requirements in "Identification for Electrical Systems."
- B. Create a directory to indicate installed circuit loads; incorporate Owner's final room designations. Obtain approval before installing. Handwritten directories are not acceptable. Install directory inside panelboard door.
- C. Panelboard Nameplates: Label each panelboard with a nameplate complying with requirements for identification specified in Section "Identification for Electrical Systems."
- D. Device Nameplates: Label each branch circuit device in power panelboards with a nameplate complying with requirements for identification specified in Section "Identification for Electrical Systems."

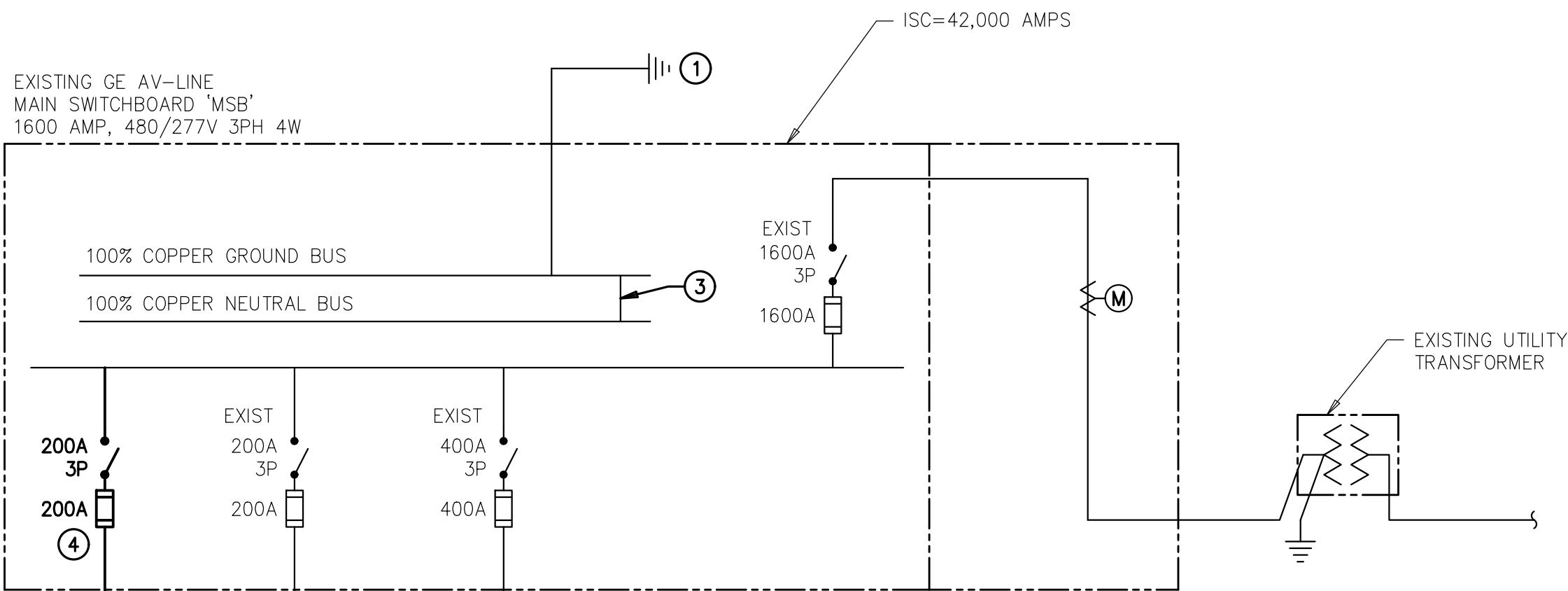
3.3 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
- B. Acceptance Testing Preparation:
 - 1. Test insulation resistance for each panelboard bus, component, connecting supply, feeder, and control circuit.
 - 2. Test continuity of each circuit.
- C. Tests and Inspections:
 - 1. Perform each visual and mechanical inspection and electrical test for low-voltage air circuit breakers stated in NETA ATS. Certify compliance with test parameters.
 - 2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
- D. Panelboards will be considered defective if they do not pass tests and inspections.
- E. Prepare test and inspection reports, including a certified report that identifies panelboards included and that describes scanning results, with comparisons of the two scans. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

END OF SECTION 26 24 16

ATTACHMENT E

REVISED SHEETS SE-1.1 & SE-2.0



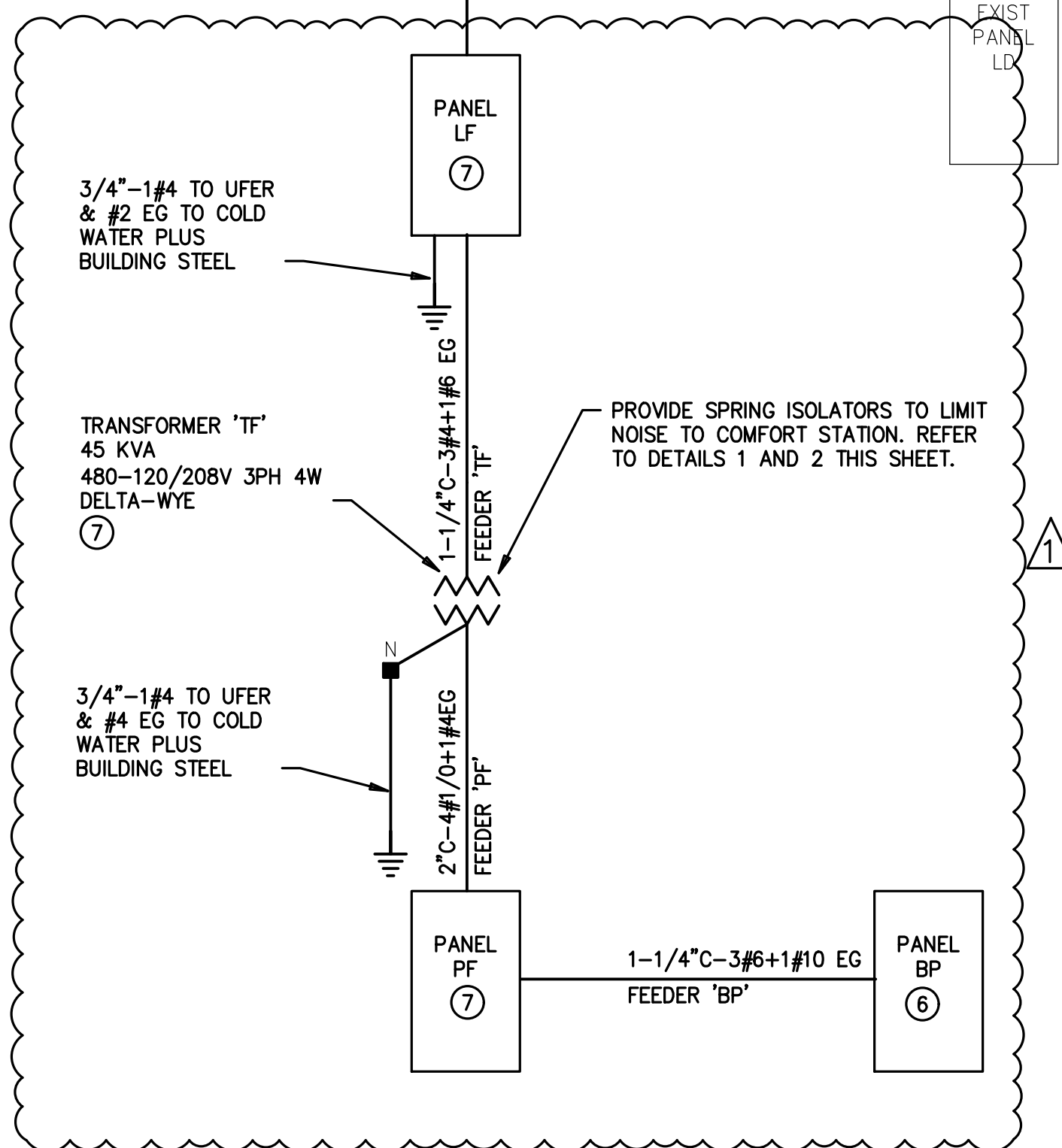
LOAD SUMMARY 'MSB'

EXISTING PANEL LA	45 kVA
EXISTING PANEL LB	45 kVA
EXISTING PANEL LC	45 kVA
PANEL 'LF'	19 kVA
EXISTING PARKING LOT LIGHTS	2 kVA
EXISTING PARKING LOT LIGHTS	2 kVA
EXISTING PANEL LC1/LC2	29 kVA
TOTAL	156 kVA
25% LONG CONTINUOUS LOAD	40 kVA
TOTAL	196 kVA
OR 228 AMPS @ 480Y/277V 3Ø 4W	

CONCLUSION: SERVICE CAPACITY IS ADEQUATE FOR ADDED LOADS.

KEYNOTES

- EXISTING GROUND CONNECTIONS TO REMAIN.
- MAIN 1600 AMP FUSE AT MSB LIMITS FAULT CURRENT TO LESS THAN 22,000 AMPS.
- EXISTING MAIN NEUTRAL TO GROUND LINK.
- PROVIDE FUSED DISCONNECT IN EXISTING SPACE TO MATCH EXISTING IN TYPE AND AIC RATING.
- ROUTE IN EXISTING CONDUIT WITH EXISTING 2#10. REMOVE AND REPLACE EXISTING CIRCUIT TO FACILITATE BULL.
- PANEL IS TO BE PROVIDED WITH PRE-ENGINEERED RESTROOM BUILDING. REFER TO ROMTEC DRAWINGS FOR PANEL SCHEDULE.
- PANEL 'LF', TRANSFORMER 'TF' AND PANEL 'PF' ARE TO BE PROVIDED BY THE CONTRACTOR AND INSTALLED IN THE ROMTEC PRE-ENGINEERED RESTROOM BUILDING.



SINGLE LINE DIAGRAM

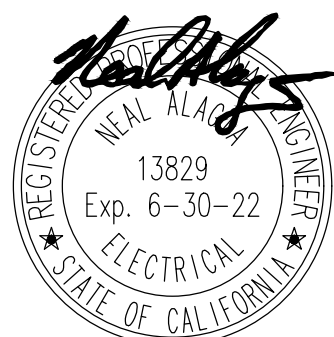
NO SCALE



1310 Rosecrans St., Suite G, San Diego, CA 92106
619.236.1462
LIC. CA 2138 | NV 219 | AZ 34139

SCHMIDTDESIGN.COM

SDG PROJECT NO: 18-403 PLOT DATE: 05/11/21



ALAGIA ENGINEERING
17743 DEL PASO DR.
(858)-746-7414
alagiaengineering@gmail.com
AEI#20009

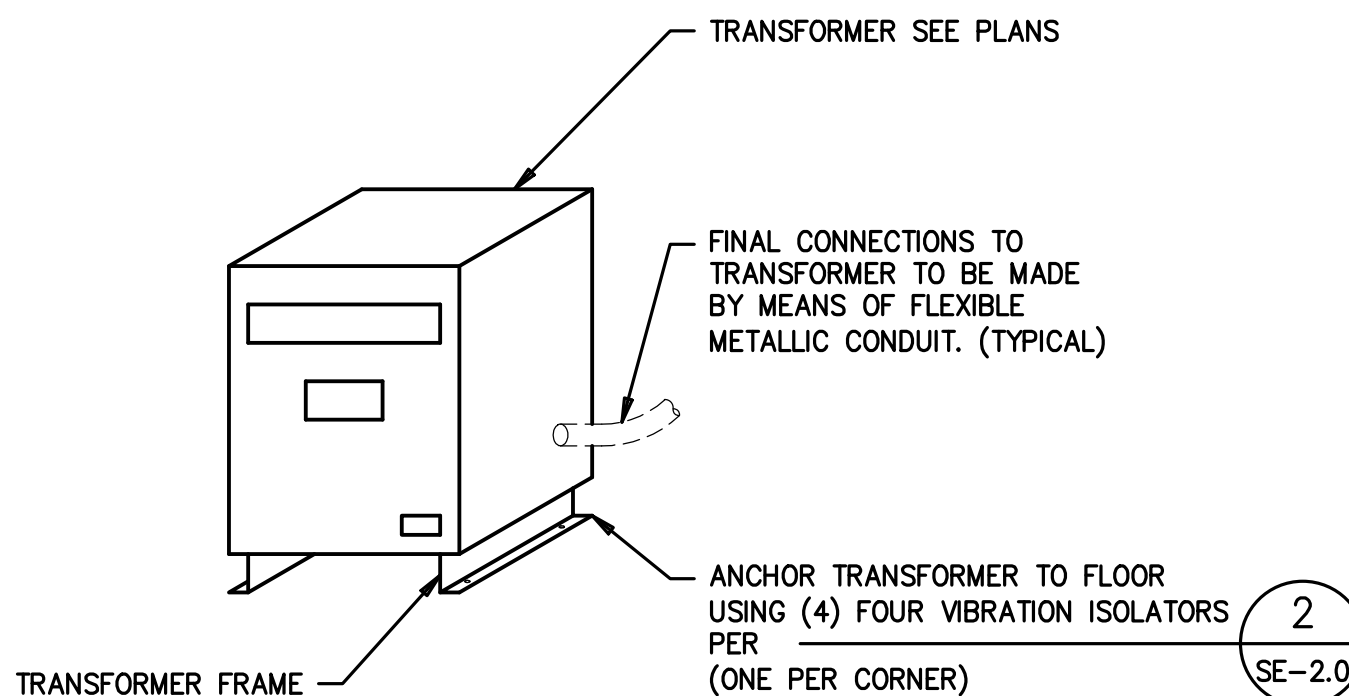
MOUNTING: SURFACE										MAIN: 200 AMP-3P									
ENTER CABINET AT: BOTTOM										TYPE: BOLT-ON									
VOLTAGE: 480/277V, 3ø, 4W										BUSSING: 225A AIC: 14K									
LOCATION		VOLT-AMPERES			L T G	R E C	M I S	BKR. A B C	ABC	BKR. A B C	M I S	R E C	L T G	VOLT-AMPERES			LOCATION		
		øA	øB	øC										øA	øB	øC			
PANEL 'PF'	5700				-	-	70	3	1	2	1	20	1				SPARE		
PANEL 'PF'		7200					-	-	3	4	1	20					SPARE		
PANEL 'PF'			7200						5	6			1				SPARE		
SPACE	-			-					7	8							SPARE		
SPACE		-							9	10							SPARE		
SPACE			-						11	12							SPARE		
SPACE	-			-					13	14							SPARE		
SPACE			-						15	16							SPARE		
SPACE				-					17	18							SPARE		
SPACE	-								19	20							SPARE		
SPACE			-						21	22							SPARE		
SPACE				-					23	24							SPARE		
SPACE	-								25	26							SPARE		
SPACE			-						27	28							SPARE		
SPACE				-					29	30							SPARE		
SUBTOTAL	5700	7200	5700														SUBTOTAL		
TOTAL VOLT-AMPERES/PHASE				øA= 5700 VA				øB= 7200 VA				øC= 5700 VA							
TOTAL PANEL VOLT-AMPERES:				18600 VA + LCL				4650 VA=				23250 VA AMPS= 28							

MOUNTING: SURFACE
ENTER CABINET AT: BOTTOM
VOLTAGE: 208/120V, 3ø, 4W

PANEL 'PF'

MAIN: 150 AMP-3P
TYPE: BOLT-ON
BUSSING: 225A
AIC: 10K

LOCATION	VOLT-AMPERES			L T G	R E C	M I S	BKR. A B C	ABC	BKR. A B C	M I S	R E C	L T G	VOLT-AMPERES			LOCATION
	øA	øB	øC										øA	øB	øC	
EV CHARGER	3600						40 2	1 4	2 1	20 1						SPARE
EV CHARGER		3600					60 2	3 5	4 1	20 1						SPARE
PANEL 'BP'			1920					5 7	6 8	1 20					180	SHADE STRUCTURE
PANEL 'BP'	1920							7 9	8 10	1 20		180				SHADE STRUCTURE
EV CHARGER		3600					40 2	9 11	10 12	1 20						SPARE
EV CHARGER			3600					11 13	12 14	1 20						SPARE
SPACE	-							13 15	14 16							SPARE
SPACE		-						15 17	16 18							SPARE
SPACE			-					17 19	18 20							SPARE
SPACE	-							19 21	20 22							SPARE
SPACE		-						21 23	22 24							SPARE
SPACE			-					23 25	24 26							SPARE
SPACE		-						25 27	26 28							SPARE
SPACE			-					27 29	28 30							SPARE
SPACE								29 30								SPARE
SUBTOTAL	5520	7200	5520									180	0	180		SUBTOTAL
TOTAL VOLT-AMPERES/PHASE		øA= 5700		øB= 7200		øC= 5700										
TOTAL PANEL VOLT-AMPERES:		18600		VA + LCL		4650		VA=		23250		VA		AMPS=		65



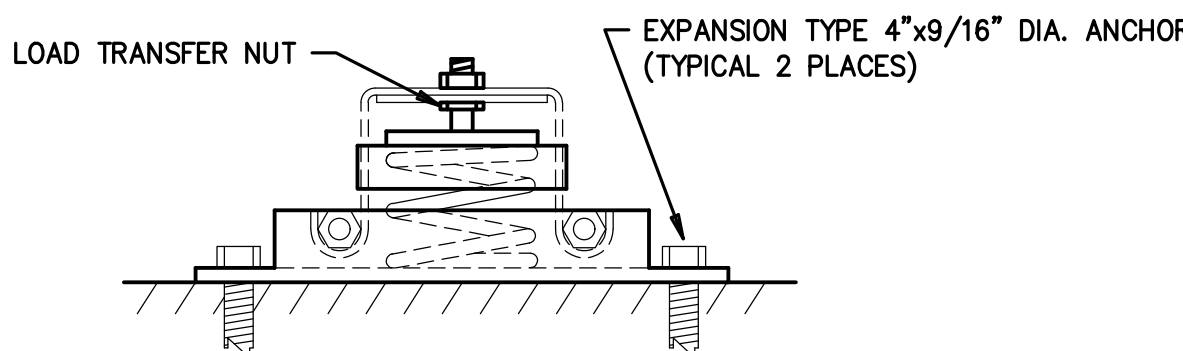
TRANSFORMER ANCHORING DETAIL

NO SCALE

MAX. TRANSFORMER WEIGHT	ISOLATOR CAT NO.
1200 LBS	JQA - E415
600 LBS	JQA - E244
480 LBS	JQA - E143
310 LBS	JQA - E106
230 LBS	JQA - E79

NOTES

ISOLATORS SHALL BE CALIFORNIA DYNAMICS CORP JQA SERIES OR AN APPROVED EQUAL.



TRANSFORMER VIBRATION ISOLATOR

NO SCALE

"AS BUILT"

P.E. _____ EXP. _____ DATE _____

REVIEWED BY: _____

INSPECTOR _____ DATE _____

SHEET 13 CITY OF CARLSBAD PARKS & RECREATION DEPARTMENT SHEETS 36

SINGLELINE DIAGRAM AND SCHEDULES FOR: POINSETTIA COMMUNITY PARK PHASE IV DOG PARK RESTROOM & PARKING LOT SE-2.0

GR2020-0017 CDP 2018-0048

APPROVED BY: JASON GELDERT

CITY ENGINEER RCE#63912 EXP. 09/30/2020 DATE

DWN BY: NJA PS

CHKD BY: NJA

RVWD BY: NJA

PROJECT NO.

4608

DRAWING NO.

525-1A



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

5/10/21 NJA DELTA 1 - ROMTEC COORDINATION

DATE INITIAL

ENGINEER OF WORK

REVISION DESCRIPTION

DATE INITIAL

OTHER APPROVAL

DATE INITIAL

CITY APPROVAL

ATTACHMENT F

BID RESULTS FROM
PWS21-1306PKS

City of Carlsbad
Bid Results for Project Poinsettia Community Park Phase IV - Dog Park, Restroom & Parking Lot (PWS21-1306PKS)
Issued on 01/13/2021
Bid Due on February 23, 2021 11:00 AM (PST)
Exported on 02/24/2021

Line Totals (Unit Price * Quantity)															
Item	Section	Code	Description	UOM	Qty.	Palm Engineering	GEM Industrial	3-D Enterprises, TRI	GROUP CON	Dick Miller Inc.	De La Fuente C	Act 1 Construct	Byrom-Davey, I	Western Rim C	Whillock Contr Alvarez & Shaw
1	Schedule "A"	A-1	General Conditions	LS	1	\$15,000.00	\$70,000.00	\$60,000.00	\$100,000.00	\$29,937.00	\$133,291.00	\$280,000.00	\$168,000.00	\$75,173.00	\$350,000.00 \$72,000.00
2	Schedule "A"	A-2	Traffic Control	LS	1	\$15,000.00	\$25,000.00	\$10,000.00	\$50,000.00	\$6,000.00	\$7,815.00	\$20,000.00	\$5,600.00	\$8,167.00	\$9,840.00 \$30,000.00
3	Schedule "A"	A-3	Surveying and Constructic	LS	1	\$30,000.00	\$30,000.00	\$40,000.00	\$50,000.00	\$26,500.00	\$33,350.00	\$25,000.00	\$33,600.00	\$23,400.00	\$25,725.00 \$33,000.00
4	Schedule "A"	A-4	Erosion Control, SWPPP P	LS	1	\$75,000.00	\$20,000.00	\$50,000.00	\$50,000.00	\$22,000.00	\$14,184.00	\$25,000.00	\$48,160.00	\$36,680.00	\$43,124.00 \$41,620.00
5	Schedule "A"	A-5	Demolition, Clearing & Gr	LS	1	\$40,000.00	\$30,000.00	\$40,000.00	\$50,000.00	\$46,500.00	\$10,250.00	\$52,824.40	\$51,520.00	\$58,009.00	\$29,705.00 \$82,000.00
6	Schedule "A"	A-6	Grading	LS	1	\$75,000.00	\$160,000.00	\$110,000.00	\$100,000.00	\$159,500.00	\$148,057.00	\$175,922.60	\$173,600.00	\$235,783.00	\$76,723.00 \$508,550.00
7	Schedule "A"	A-7	Utilities and Drainage	LS	1	\$130,000.00	\$110,000.00	\$200,000.00	\$100,000.00	\$145,600.00	\$114,840.00	\$156,000.00	\$134,400.00	\$156,985.00	\$213,090.00 \$254,433.00
8	Schedule "A"	A-8	Concrete Improvements	LS	1	\$295,000.00	\$230,000.00	\$150,000.00	\$155,000.00	\$224,800.00	\$240,890.00	\$260,143.22	\$330,400.00	\$306,840.00	\$326,967.00 \$324,860.00
9	Schedule "A"	A-9	Asphalt Pavement	LS	1	\$100,000.00	\$80,000.00	\$65,000.00	\$75,000.00	\$72,450.00	\$63,514.00	\$47,138.00	\$58,240.00	\$62,980.00	\$63,622.00 \$73,290.00
10	Schedule "A"	A-10	Fencing and Gates	LS	1	\$58,000.00	\$90,000.00	\$85,000.00	\$75,000.00	\$79,170.00	\$87,464.00	\$61,525.00	\$69,440.00	\$71,984.00	\$65,751.00 \$86,635.00
11	Schedule "A"	A-11	Shade Sail Structure	LS	1	\$45,000.00	\$43,000.00	\$45,000.00	\$50,000.00	\$37,900.00	\$45,040.00	\$66,630.69	\$39,200.00	\$41,451.00	\$37,200.00 \$50,220.00
12	Schedule "A"	A-12	Restroom & Trellis	LS	1	\$380,000.00	\$410,000.00	\$455,000.00	\$450,000.00	\$455,875.00	\$480,817.00	\$344,000.00	\$499,520.00	\$503,393.00	\$451,875.00 \$246,665.00
13	Schedule "A"	A-13	Site Amenities	LS	1	\$60,000.00	\$79,000.00	\$120,000.00	\$50,000.00	\$127,000.00	\$93,988.00	\$126,578.14	\$191,856.00	\$71,365.00	\$96,668.00 \$56,792.00
14	Schedule "A"	A-14	Landscape Boulders	LS	1	\$12,000.00	\$10,000.00	\$10,000.00	\$17,012.00	\$27,500.00	\$6,844.00	\$5,900.00	\$6,720.00	\$14,231.00	\$6,195.00 \$7,620.00
15	Schedule "A"	A-15	Electrical Improvements	LS	1	\$159,675.00	\$250,000.00	\$150,000.00	\$250,000.00	\$231,000.00	\$220,400.00	\$197,600.00	\$252,000.00	\$256,698.00	\$230,370.00 \$255,357.00
16	Schedule "A"	A-16	Irrigation System	LS	1	\$150,000.00	\$100,000.00	\$150,000.00	\$150,000.00	\$118,000.00	\$148,596.00	\$128,100.00	\$143,472.00	\$152,100.00	\$134,505.00 \$147,194.00
17	Schedule "A"	A-17	Planting	LS	1	\$160,000.00	\$130,000.00	\$170,000.00	\$150,000.00	\$171,500.00	\$165,648.00	\$114,800.00	\$70,560.00	\$199,965.00	\$120,540.00 \$131,912.00
18	Schedule "A"	A-18	120 Day Maintenance Per	LS	1	\$15,000.00	\$8,000.00	\$12,000.00	\$3,900.00	\$12,500.00	\$4,640.00	\$4,000.00	\$4,480.00	\$7,020.00	\$4,200.00 \$5,000.00
19	Schedule "A"	A-19	Record Drawings	LS	1	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,640.00	\$3,000.00	\$4,000.00	\$4,000.00	\$4,000.00 \$1,875.00
Subtotal						\$1,818,675.00	\$1,879,000.00	\$1,926,000.00	\$1,929,912.00	\$1,997,732.00	\$2,024,268.00	\$2,094,162.05	\$2,284,768.00	\$2,286,224.00	\$2,290,100.00 \$2,409,023.00
Total						\$1,818,675.00	\$1,879,000.00	\$1,926,000.00	\$1,929,912.00	\$1,997,732.00	\$2,024,268.00	\$2,094,162.05	\$2,284,768.00	\$2,286,224.00	\$2,290,100.00 \$2,409,023.00

Bid Results

Bidder Details

Vendor Name	Palm Engineering Construction Company, Inc.
Address	7330 Opportunity Road Suite A
	San Diego, California 92111
	United States
Respondee	Rasoul Shahbazi
Respondee Title	President
Phone	619-291-1495
Email	richard@palmengineeringco.com
Vendor Type	
License #	853930
CADIR	

Bid Detail

Bid Format	Electronic
Submitted	02/23/2021 10:31 AM (PST)
Delivery Method	
Bid Responsive	
Bid Status	Submitted
Confirmation #	243910
Ranking	0

Respondee Comment

Buyer Comment

Bond

eBond Contract ID

Attachments

File Title	File Name	File Type
Ins statement.pdf	Ins statement.pdf	General Attachments
Discipline.pdf	Discipline.pdf	General Attachments
Noncoll.pdf	Noncoll.pdf	General Attachments
Bid bond.pdf	Bid bond.pdf	Bid Bond
Exp.pdf	Exp.pdf	General Attachments
Cert.pdf	Cert.pdf	General Attachments
Debar.pdf	Debar.pdf	General Attachments

Subcontractors

Showing 1 of undefined Subcontractors

Name & Address	Desc	License Num	CADIR	Amount	Type
Western State Builders 2141 Orange Ave Escondido, California 92029	Installation of Modern Shade Sail Structure	1001538	1000039078	\$15,904.24	

Line Items

Item #	Item Code	Section	Type	Item Description	UOM	QTY	Unit Price	Line Total	Response	Comment
1	A-1	Schedule "A"		General Conditions	LS	1	\$15,000.00	\$15,000.00	Yes	
2	A-2	Schedule "A"		Traffic Control	LS	1	\$15,000.00	\$15,000.00	Yes	
3	A-3	Schedule "A"		Surveying and Construction Staking	LS	1	\$30,000.00	\$30,000.00	Yes	
4	A-4	Schedule "A"		Erosion Control, SWPPP Preparation, Implementation and Maintenance	LS	1	\$75,000.00	\$75,000.00	Yes	
5	A-5	Schedule "A"		Demolition, Clearing & Grubbing	LS	1	\$40,000.00	\$40,000.00	Yes	
6	A-6	Schedule "A"		Grading	LS	1	\$75,000.00	\$75,000.00	Yes	
7	A-7	Schedule "A"		Utilities and Drainage	LS	1	\$130,000.00	\$130,000.00	Yes	
8	A-8	Schedule "A"		Concrete Improvements	LS	1	\$295,000.00	\$295,000.00	Yes	
9	A-9	Schedule "A"		Asphalt Pavement	LS	1	\$100,000.00	\$100,000.00	Yes	
10	A-10	Schedule "A"		Fencing and Gates	LS	1	\$58,000.00	\$58,000.00	Yes	
11	A-11	Schedule "A"		Shade Sail Structure	LS	1	\$45,000.00	\$45,000.00	Yes	
12	A-12	Schedule "A"		Restroom & Trellis	LS	1	\$380,000.00	\$380,000.00	Yes	
13	A-13	Schedule "A"		Site Amenities	LS	1	\$60,000.00	\$60,000.00	Yes	
14	A-14	Schedule "A"		Landscape Boulders	LS	1	\$12,000.00	\$12,000.00	Yes	
15	A-15	Schedule "A"		Electrical Improvements	LS	1	\$159,675.00	\$159,675.00	Yes	
16	A-16	Schedule "A"		Irrigation System	LS	1	\$150,000.00	\$150,000.00	Yes	
17	A-17	Schedule "A"		Planting	LS	1	\$160,000.00	\$160,000.00	Yes	
18	A-18	Schedule "A"		120 Day Maintenance Period	LS	1	\$15,000.00	\$15,000.00	Yes	
19	A-19	Schedule "A"		Record Drawings	LS	1	\$4,000.00	\$4,000.00	Yes	

Line Item Subtotals

Section Title	Line Total
Schedule "A"	\$1,818,675.00
Grand Total	\$1,818,675.00