

AFFILIATED AGENCIES

Orange County Transit District

Local Transportation Authority

Service Authority for Freeway Emergencies

Consolidated Transporation Service Agency

Congestion Management Agency March 31, 2025

SUBJECT: Invitation for Bids (IFB) 5-3922 "Installation of Battery Electric Bus Chargers and Electrical Infrastructure at Santa Ana Bus Base"

Ladies/Gentlemen:

This letter and its attachment comprise **Addendum No. 3** to the above captioned Invitation for Bids issued by the Orange County Transportation Authority ("Authority").

- 1. Bidders are advised that answers to the bidders' questions submitted by April 2, 2024, are presented as Attachment A to this Addendum No. 3.
- 2. Bidders are advised that Bid Booklet, Book 2 of 2 is presented as Attachment B to this Addendum No. 3 to revise the Bid Form only, to add allowance Item 2 for Bid Plans vs. Southern California Edison Final Service Plan variances in the amount of \$50,000.00. Bidders are to use this Bid Booklet, Book 2 of 2, Addendum No. 3 to submit their bids.
- 3. Bidders are advised that the Authority has revised Exhibit C Project Drawings which is presented in its entirety as Attachment C to this Addendum No. 3.
- 4. Bidders are advised that the pre-bid conference registration sheets are presented as Attachment D to this Addendum No. 3.
- 5. Bidders are advised that the following Paragraph is to be added at the end of **Article 6 Payment**.
 - "D. Allowances are to be paid for based on Force Account. No work under allowance categories shall commence unless authorized in writing by the Engineer. Any costs which exceed, or are less than the bid allowance amount, shall require an adjustment to the maximum cumulative payment obligation amount by Change Order."

6. Bidders are advised that Section IV: Agreement, Article 4. Delivery/Recovery Schedule, Paragraph A, has been deleted in its entirety and replaced with the following:

"ARTICLE 4. DELIVERY / RECOVERY SCHEDULE

A. CONTRACTOR shall fully complete the herein above described work within (365) calendar days from the effective date of written Notice to Proceed (NTP) issued by AUTHORITY. CONTRACTOR shall give AUTHORITY not less than seventy-two (72) hours advance notice of the start of any work. Within five (5) calendar days after said notice, CONTRACTOR shall provide any construction schedules as may be requested by AUTHORITY."

Bidders are reminded to acknowledge receipt of this **Addendum No. 3** in their "Bid Form". Bidders are advised that all changes addressed in this **Addendum No. 3** shall be incorporated into the final Agreement.

Questions regarding this Addendum No. 3 should be directed to the undersigned at 714-560-5314 or mle1@octa.net.

Sincerely.

Michael Le

Senior Contract Administrator

Contracts Administration and Materials Management

Attachment:

Attachment A: Questions Received and Authority Responses

Attachment A-1: OCTA Equipment List
Attachment B: Bid Booklet, Book 2 of 2
Attachment C: Revised Project Drawings

Attachment D: Pre-Bid Conference Registration Sheets

Questions Received (Q) and Authority Answers (A)

- Q1. Under the scope of work section in Addendum #1, it states the project will include the installation of multiple ChargePoint chargers and equipment. My question is, will the project allow for equivalent equipment from non-ChargePoint manufacturers to be installed?
- A1. The project includes installation of Owner (OCTA)-furnished Battery-Electric Bus (BEB) chargers, which have been purchased by OCTA under a separate competitive procurement, and therefore the contractor furnishing the BEB chargers is not a part of this bid and/or agreement.
- **Q2**. Is there any DBE or SBE set aside for the Installation of Battery Electric Bus Chargers and Electrical Infrastructure at Santa Ana Bus Base opportunity?
- A2. There is no DBE or SBE set aside for this project.
- Q3. Can a Contractor with a "B" and "C-20" bid this project?
- A3. No. Bidders will be required to hold a valid State of California C-10 specialty contractor license or hold a valid State of California A general engineering contractor license and subcontract to valid State of California C-10 specialty contractor licensee.
- **Q4**. Who purchases the EV chargers and other material for the project? We're a distributor for EV chargers and other equipment.
- A4. The Owner (OCTA) will furnish BEB charger equipment that were purchased under a separate competitive procurement. Refer to Attachment A-1 to this Addendum No. 3 for a list of BEB charger equipment furnished by Owner (OCTA), which shall be installed by project contractor awarded the agreement under this IFB. All other project-related equipment and materials, not listed within Attachment A-1 to this Addendum No. 3, shall be provided by project contractor.
- Q5. Can OCTA please confirm that all MV scope not listed is the responsibility of SCE SCE owned transformer and SCE owned switch?
- A5. Southern California Edison (SCE) is responsible for installation of SCE-owned electrical service infrastructure and equipment, including SCE-owned transformer and PME switch. Project contractor is responsible for installation of project related electrical service infrastructure and equipment, as identified within project documents; project contractor is also responsible for coordination with SCE and related installation work to connect SCE-installed electrical service infrastructure with project contractor-installed electrical service infrastructure.

Unforeseen work related to Bid Plans vs. SCE Final Service Plan variances on SCE PME Switch and SCE Transformer locations shall be addressed by bid allowance item. Refer to Attachment B, Bid Booklet, Book 2 of 2 of this Addendum No. 3 for bid allowance item; refer to Item No. 5 of this Addendum No. 3 cover letter for bid allowance method of payment.

- **Q6**. Can OCTA please estimate SCE's timeline for procuring equipment and SCE's portion of work?
- A6. SCE's timeline for procuring SCE-installed equipment and related installation work is anticipated to be completed in a similar timeline (anticipated completion) of this project.
- **Q7**. Who is responsible for the conduit from the secondary side of SCE transformer to new customer owned 489v switch?
- A7. Conduits to connect SCE-owned transformer and OCTA-owned meter switchboard and related work are typically shared responsibility between SCE and Owner (OCTA), of which details of related work are coordinated between parties during construction.

For bidding purposes, project contractor shall be responsible for providing conduits and related work from the Customer or OCTA-owned meter switchboard to SCE-owned transformer; the contractor-installed conduits from the Customer or OCTA-owned meter switchboard shall terminate a distance of 5-feet horizontally from exterior face of SCE-owned transformer. The contractor shall furnish the tie-in conduit to SCE, for SCE to make the tie-in to their transformer, and the contractor shall furnish all conductors from the SCE transformer to the Customer or OCTA-owned meter switchboard.

Refer to response A5 above for additional information.

- **Q8**. Who is responsible for installing and terminating conductors between SCE transformer and customer owned 480v switch?
- A8. SCE is responsible for terminating conductors between SCE-owned transformer and OCTA-owned meter switchboard.

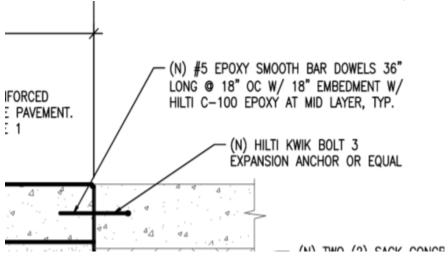
Refer to response A5 above for additional information.

Q9. Can OCTA clarify the payment process for contractor-purchased equipment on behalf of the customer? Specifically, will payment be issued upon equipment delivery to the site through the schedule of values, or only after full installation?

- A9. Payments to project contractor for contractor-purchased equipment shall be made accordingly after installation of such equipment has commenced; per General Provisions (Exhibit A) of IFB 5-3922 Addendum No. 1, "no progress payments will be made for materials not installed."
- **Q10**. Please provide drawings, details, and specifications for Southern California Edison (SCE) work (switch and transformer) that is performed contractor.
- A10. Project related SCE Final Service Plan is not yet available at this time. Refer to response A5 above for additional information.
- **Q11**. See sheet SA-S103, Construction Note 5. Please provide detail for new concrete utility trench.
- A11. Refer to Attachment C to this Addendum No. 3 for detail 5/SA-S501 related to new concrete utility trench.
- **Q12**. See sheet SA-S103, Construction Note 7. Please provide detail for new SEC utility transformer.
- A12. Project related SCE Final Service Plan (including detail related to SCE utility transformer) is not yet available at this time; of note, SCE utility transformer shall be furnished and installed by SCE, per project documents.
 - Refer to response A5 above for additional information.
- Q13. See sheet SA-S103, Construction Note 8. Please provide detail for SCE MV PME-8 Switch Cabinet.
- A13. Project related SCE Final Service Plan (including detail related to SCE MV PME-8 switch cabinet) is not yet available at this time; of note, SCE MV PME-8 switch cabinet shall be furnished and installed by SCE, per project documents.
 - Refer to response A5 above for additional information.
- **Q14**. When will the So Cal Edison final design be provided? This information is needed to allow for lineal footages of conduit, trenching and restoration.
- A14. SCE Final Service Plan (final design) will be provided to project contactor when it's made available to OCTA. Refer to response A7 above for additional information.
- Q15. Per plans- SA-S101-Note 13 calls for removal of existing curb along the west charger line. As the excavation is only to be 6" below existing curb, the new gravel fill will sit proud of the existing concrete. Will a barrier be required to retain the gravel

from spilling out onto the concrete? If so, please provide a spec for the new barrier (Refer to 2&3/SA-E505 for elevation cut section)

- A15. Refer to Attachment C to this Addendum No. 3 for revised drawings, which includes updated details 2/SA-E505 and 3/SA-E505 that addresses potential gravel spillover.
- Q16. Detail 3/SA-E504 calls for epoxy dowels @ 18" centers where new concrete ties into existing. Another note calls for Hilti Kwik Bolt expansion anchors. Please confirm which note is to be used for these dowels, see below



- A16. Refer to Attachment C to this Addendum No. 3 for revised drawings, which includes updated detail 3/SA-E504 and note related to dowels.
- **Q17**. It was mentioned at the site walk that outside of construction hours, the drive isle over the new conduit trench will need to remain open. This presents (2) questions:
 - a. While excavation is open, trench plates will need to be installed to maintain drive isle. Will plates need to be welded together on a daily basis upon completion of the work day?
 - b. When concrete is poured back in the drive isle, will the work need to be phased (one half poured, allow for cure time, then move to the other half)?
- A17. Temporary trench plates provided by project contractor, to cover open excavations related to conduit trenching at driveways/drive aisles, are not required to be welded together on a daily basis. During trench related work, temporary trench plates shall be placed securely by project contractor in a manner that will prevent damaging OCTA bus fleet and other properties; project contractor shall bear all expense for repair or replacement due to property damage by project contractor's operations in conjunction with placement of temporary trench plates.

Phasing to complete concrete placement (pour) related work at driveways/drive aisles shall be implemented to allow for appropriate cure time of concrete and allow

- for bus operations to remain fully operational. Phasing of concrete placement related work shall be based on project contractor's means and methods, and shall be coordinated with OCTA in a timely manner.
- **Q18**. Please confirm: The HSE representative is to be provided and paid for by the contractor and must be onsite full time.
- A18. Onsite HSE representative during construction activities are to be provided and paid for by the project contractor. Onsite HSE representative are required to be onsite on a full time basis during all construction activities.
- **Q19**. Please confirm: All deputy/consultant inspections (epoxy anchors, concrete, compaction, survey, etc..) are provided by OCTA with schedule coordination from the contractor.
- A19. Project contractor is responsible for timely coordination of third-party/deputy inspections related to epoxy anchors, concrete, and compaction that shall be provided and paid for by OCTA. Survey related work/services are not provided nor paid for by OCTA.
- **Q20**. Detail 1/SA-E505 and Note 13/SA-E104 call for exposed wall mounted installation of sched 80 pvc conduit painted to match existing wall. Should this material be changed to Rigid steel conduit?
- A20. Exposed wall-mounted conduits shall be of schedule 80 PVC material, unless otherwise noted within project drawings (Attachment C to this Addendum No. 3).
- Q21. Section 1 11 00 Summary of Work-1.01-H-4-e specifies the installation of stainless steel cabinets. Section 26 24 13 "Switchboards"1.1-A only specifies Nema 3R switchboard sections, and Section 26 24 16 "Panelboards" 1.1-A & B both call for panel boards in stainless steel enclosures. Please clarify by name (IE..MSB-BEB, SB-BEB 1, 2 and 3) which equipment sections or enclosures are required to be stainless steel.
- A21. Refer to updated drawing sheet SA-E104 (within Attachment C to this Addendum No. 3) for construction note 4, which identifies a lockable hinged door panel that is to be of stainless steel material.
- **Q22**. Sheet SA-E102 "FLEETWATCH FR-200 DATA ACQUISITION" specifies programming, testing, commissioning and demonstrating usage of the Fleetwatch FR-200 units. In addition, 3 days of field and classroom training including written hard copies of manuals are to be given to OCTA personnel. Does this coordination and attendance fall on OCTA or the contractor?

- A22. As it relates to Fleetwatch (data receiver) units related work, project contractor is required to furnish and install units per project documents. Project contractor is also required to coordinate with Fleetwatch unit manufacturer for testing and commissioning related work to ensure that the units are fully operational. Training related work by Fleetwatch unit manufacturer shall be coordinated by OCTA.
- **Q23**. Will the Fleetwatch FR-200 data receivers be supplied by OCTA or contractor procured?
- A23. Fleetwatch (data receiver) units shall be furnished/supplied and installed by project contractor.
- **Q24**. Are Burndy crimps an acceptable alternate to the cad weld connections for ufer ground and ground loop connections?
- A24. No, Burndy crimps is not an approved alternate to cad weld connections.
- **Q25**. Is the on-site "designated" HSE Representative allowed to perform other job duties in addition to primary safety duties with all other requirements met? For example, can a superintendent who meets all of the requirements meet the intent of a on-site "designated" HSE representative?
- A25. Yes, the safety professional (onsite HSE representative) is allowed to perform other job duties as long as they have all required certifications and/or other requirements to perform the work of the appropriate positions.
- **Q26**. Safety Trained Supervisor-Construction is a BCSP designation; is this designation acceptable?
- A26. Yes, a BCSP-STSC (Safety Trained Supervisor Construction) is acceptable.
- **Q27**. Sheet C-26 Storm Drain Profiles please clarify where these profiles are referenced on the plans.
- A27. Refer to Attachment C to this Addendum No. 3 for revised drawings, which includes updated drawing sheet C-26 with added references.
- Q28. Please extend the RFI deadline by one week to accommodate new questions based on information from the pre-bid meeting held only 2 days prior to the current deadline.
- A28. The Authority has established March 20, 2025 as the deadline to submit questions for the project; therefore, the request for extension is denied.

Equipment List for OCTA-furnished Battery-Electric Bus (BEB) Chargers

Item #	<u>Description</u>
1	ChargePoint Plug-in Chargers • Power Block (EXPP-PB1000-250A-PD) ○ Quantity – 10 each • Power Module (EXPP-PM-40kW) ○ Quantity – 40 each • Express Plus Power Link PL1000 Series (EXPP-PL1011B-3A1M0) ○ Quantity – 10 each
2	ChargePoint Pantograph Charger Power Block (EXPP-PB1000-250A-PD) Quantity – 3 each Power Module (EXPP-PM-40kW) Quantity – 12 each EXPP Pantograph Controller (EXPP-PD-CONTROLLER) Quantity – 1 each Express Plus Power Link PL2000 Series (EXPP-PL2014X-7A5X00) Quantity – 1 each Mast (Valmont Pantograph Mast) Quantity – 1 each Pantograph (Schunk SLS 201.102) Quantity – 1 each

BID DOCUMENT SUBMISSION CHECKLIST

IFB NO	
PROJECT TITLE:	
reminder of the documents required must be complete, fully executed, i bid documents in order to render th	n Authority has prepared this checklist as a to be submitted with the bid. These documents notarized where appropriate as required in the se bid responsive. MENTS MUST BE SUBMITTED WITH THE BID:
Bid Form – include all pages 1 th	rough 4.
All addenda must be acknowledged	
Bid Security Form: Bid Bond or	Check (circle one)
Correct bid number, signed, dated,	notarized (bid bond)
Information Required of Bidder	
Provide all information, signed Bidders Certificate of Compliance	e Regarding Workers Compensation Insurance
Signed and dated	c regarding workers compensation insurance
	ance Regarding State of California Business and 5
	should match that associated with License # on CSLB Description of work (one subcontractor for each portion),
Status of Past and Present Contr	acts Form
Signed, dated	
Non-Collusion Declaration Form Signed, dated	
	Applicable (Bids over \$1,000,000 only)
	mission Checklist is affirmation that items marked bid. I understand that failure to complete and/or may deem my bid non-responsive.
Authorized Signature	Print Name and Title
Firm Name	Date



BID FORM

The undersigned hereby proposes to perform all work for which a contract may be awarded and to furnish any and all plant, labor, services, material, tools, equipment, supplies, transportation, utilities, and all other items and facilities necessary therefore as required in the IFB 5-3922, "INSTALLATION OF BATTERY ELECTRIC BUS CHARGERS AND ELECTRICAL INFRASTRUCTURE AT SANTA ANA BUS BASE", and to do everything required therein; and further proposes that, if this bid is accepted, will contract in the form and manner stipulated to perform all the work in strict conformity therewith within the time limits set forth therein, and will accept as full payment therefore, the following price:

ITEM	DESCRIPTION / BID ALLOWANCES	TOTAL BID PRICE
1	Bid Amount – Installation of Battery Electric Bus Chargers and Electrical Infrastructure at Santa Ana Bus Base	\$
2	Allowance – Bid Plans vs. Southern California Edison Final Service Plan variances	\$50,000.00
	TOTAL BID AMOUNT	\$

A cashier's check/certified check/bid bond (circle applicable term) properly made payable to Orange County Transportation Authority, hereinafter designated as the Owner, for the sum of

Dollars
\$)
which amount is not less than ten percent (10%) of the total amount of this
oid, is attached hereto and is given as a guarantee that the undersigned will
execute the Agreement and furnish the required bonds, "Guaranty" and
Certificate of Insurance", if awarded the contract, and in case of failure to
lo so within the time provided, (a) the proceeds of said check shall be
orfeited to the Authority; or (b) surety's liability to the Authority for forfeiture
of the face amount of the bond shall be considered as established [circle (a)

The undersigned hereby represents that:

or (b)].

BID FORM, PAGE 2

- 1. Bidder has thoroughly examined and become familiar with the work required and documents included under this IFB. The bidder understands that the award of the contract, if it is awarded, will be based on the lowest total bid submitted by a responsive and responsible bidder, and further, that the amounts and the total on the Bid Form will be subject to verification by the Authority.
- 2. By investigation at the site of the work and otherwise, it is satisfied as to the nature and location of the work and is fully informed as to all conditions and matters, which can in any way affect the work or the cost thereof.
- 3. Bidder fully understands the scope of the work/specifications and has checked carefully all words and figures inserted in said Invitation For Bids (IFB) and further understands that the Authority will in no way be responsible for any errors or omissions in the preparation of this bid. Bidder further asserts that it is capable of performing quality work to meet Authority's requirements.
- 4. Bidder will execute the Agreement and furnish the required Performance and Payment Bonds, Guaranty and proof of insurance coverage within ten (10) calendar days after notice of acceptance of bid by the Authority; and further, that this bid may not be withdrawn for a period of 120 calendar days after the date set for the opening thereof, unless otherwise required by law. If any bidder shall withdraw its bid within said period, the bidder shall be liable under the provisions of the Bid Security, or the bidder and the surety shall be liable under the Bid Bond, as the case may be.
- 5. Bidder hereby certifies that this bid is genuine and not a sham or collusive or made in the interest or on behalf of any person not herein named, and the undersigned has not directly or indirectly induced or solicited any other bidder to put in a sham bid, or any other person, firm, or corporation to refrain from bidding; the undersigned has not in any manner sought by collusion to secure for himself an advantage over any other bidder.
- 6. In conformance with current statutory requirements of Section 1860, et. seq., of the Labor Code of the State of California, the Bidder shall execute the document included in this IFB entitled "Bidder's Certificate of Compliance Regarding Workers' Compensation Insurance."
- 7. Bidder hereby further certifies that each, and every representations made in this bid are true and correct and made under penalty of perjury.

BID FORM, PAGE 3

- 8. Bidder shall permit the authorized representative of the Authority to inspect and audit all data and records of bidder relating to this bid, and if awarded a contract resulting from this bid, shall permit such inspection and audit of all data and records of bidder related to bidder's performance of such contract.
- 9. Bidder does not employ anyone who is now, or for one (1) year immediately prior to the date of this offer was, a director, officer, member, or employee of the Orange County Transportation Authority. The undersigned has not agreed to pay a fee contingent upon the award of a contract resulting from this bid to anyone who is now, or for one (1) year immediately prior to the date of this bid was, a director, officer, member, or employee of the Orange County Transportation Authority. No member of or delegate to the Congress of the United States shall be admitted to any share of the contract or to any benefit arising therefrom.
- 10. If awarded a contract resulting from this bid, bidder shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age or national origin. The bidder shall take affirmative action to ensure that applicants are employed, and that employees are treated during their employment, without regard to their race, religion, color, sex, age or national origin. Such actions shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.
- 11. Bid will be in effect for 120 calendar days after the bid closing date.

BID FORM, PAGE 4

Now: In compliance with the **Invitation For Bids (IFB) 5-3922**, "**INSTALLATION OF BATTERY ELECTRIC BUS CHARGERS AND ELECTRICAL INFRASTRUCTURE AT SANTA ANA BUS BASE**", the undersigned, with full cognizance thereof, hereby proposes to perform the entire work in strict compliance with all of the said requirements and provisions for the prices set forth herein upon which award of contract is made. The undersigned affirms that the information provided herein is true and accurate and that any misrepresentations are made under penalty of perjury.

Dated , 202_	Bidder
The above bid includes	Signature
Addenda Nos.	Name
	Title
Bidder's Authorized Representative	
Title	
Telephone #	
Fax#	
Email Address	
Bidders post office address	
Corporation organized under the laws of t	the State of
Contractor's License No.	
Expiration Date of License	
Surety or sureties	
	(CORPORATE SEAL)

BID SECURITY FORM BID BOND

KNOW ALL MEN BY THESE PRESENTS:

hat, as principal and idder and as Surety, are held and firmly ound unto the Orange County Transportation Authority, of State of California, hereinafter as as a surety, are held and firmly ound unto the Orange County Transportation Authority, of State of California, hereinafter as a surety, are held and firmly ound unto the Orange County Transportation Authority, of State of California, hereinafter as a surety, and assigns; or which payment, well and truly to be paid to the Authority, its successors, and assigns; or which payment, well and truly to be made, bind themselves, their heirs, executors, dministrators, successors, and assigns, jointly and severally, firmly by these presents, his amount being ten percent (10%) of the total amount of the Bid. THE CONDITION OF THIS OBLIGATION IS SUCH, that if the certain bid of the above
amed bounden principal
ransportation Authority's at the Orange County ransportation Authority's as pecifically set forth in documents entitled IFB 5-3922, "INSTALLATION OF BATTERY LECTRIC BUS CHARGERS AND ELECTRICAL INFRASTRUCTURE AT SANTA ANA BUS BASE", shall not be withdrawn within a period of 120 calendar days after the rate set for the opening of bids, (unless otherwise required by law, and notwithstanding the award of the contract to another Bidder), and that if said bid is accepted by the authority through action of its legally constituted contracting authorities and if the above ounden its heirs, executors, administrators, successors and assigns, shall execute a contract for such construction and deliver the required Performance and Payment Bonds, "Guaranty," and roof of insurance coverage within ten (10) calendar days after notification of contract ward from the Authority, then this obligation shall become null and void; otherwise it shall e and remain in full force and effect.
N WITNESS WHEREOF, we hereunto set our hands and seals this day of, 202

NOTE: The standard printed bond form of any bonding company acceptable to the Authority may be used in lieu of the foregoing approved sample bond form provided the security stipulations protecting the Authority are not in any way reduced by use of the security company's printed standard form.

BID SECURITY FORM CHECK TO ACCOMPANY BID

(NOTE: The following form shall be used in case check accompanies bid)

Accompanying this bid is a Certified or Cashiers check (circle the appropriate one) payable to the order of Orange County Transportation Authority, hereinafter referred to as "Authority" for
as "Authority" for
amount of the bid submitted in response to IFB 5-3922, INSTALLATION OF BATTERY
ELECTRIC BUS CHARGERS AND ELECTRICAL INFRASTRUCTURE AT SANTA
ANA BUS BASE". The proceeds of this check shall become the property of Authority
convided this bid shall be accepted by Authority through action of its legally constituted contracting authorities and the undersigned shall fail to execute a contract and furnish the required Guaranty Form, Performance and Payment Bonds and proof of insurance coverage within ten (10) calendar days after date of notification of contract award from the Authority. The proceeds of this check shall also become the property of the Authority of the undersigned bidder withdraws the bid within the period of 120 days after the date set for the opening thereof, unless otherwise required by law, and notwithstanding the award of the contract to another bidder. Otherwise, the check shall be returned to the undersigned.
Bidder:
Signature:
Date:

NOTE: If the bidder desires to use a bond instead of check, the Bid Bond form shall be executed and the sum of this bond shall be ten percent [10%] of the total amount of the bid.

INFORMATION REQUIRED OF BIDDER

The bidder is required to supply the following information. Additional sheets may be attached if necessary.

1.	. Name of Bidder:					
2.	. Business Address:					
3.	. Telephone () Fa	ax ()	E-Mail:			
4.	. Type of Firm - Individual, Partnership or	Corporation:				
5.	. Corporation organized under the laws o	f state of:				
6.	. Contractor's License No.: C	lass	Years of Experience:			
7.	. Expiration Date of License:					
8.	. Is your firm a certified small business in	California? Yes	_ No			
9.	. List the names and addresses of all owners of the firm or names and titles of all officers					
	of the corporation:					

INFORMATION REQUIRED OF BIDDER, PAGE 2

10. Please list the following: a) All prior and current license numbers that the current owner(s) or officers possess or have possessed in the last five years and the current status of those license; b) any prior company names that the owner(s) had in operation during the previous five years.

Current Officers or Owners Name	Prior Company Names (During the last 5 years)	Prior and Current License Numbers	Status of License

Note: If additional space is required to detail the information requested, please attach another page. All information requested must be included. Failure to identify all of the information may result in your bid being found non-responsive and your bid being rejected.

11. List all construction projects (public and private) for which Bidder has provided general contractor services for the past three years:

Contract Type (Public or Private)	Project Description	Dates of Service	Total Cost	Name and Address of Owner	Contact Name and Phone Number

Note: If additional space is required to detail the information requested, please attach another page. All information requested must be included. Failure to identify all of the information, may result in your bid being found non-responsive and your bid being rejected.

12. List the name, address and phone number of Superintendent for this project:							
	truction projects rices as a Superin				perintendent has		
Contract Type (Public or Private)	Project Description	Dates of Service	Total Cost	Name and Address of Owner	Contact Name and Phone Number		
Bidder hereby ce	ertifies that it:						
	is a certified Disadvantaged Business Enterprise as defined herein.						
is not a Disadvantaged Business Enterprise as defined herein. NOTE: If requested by the Authority, bidder shall furnish a certified financial statement, financial data, or other information and references sufficiently comprehensive to permit an appraisal of its current financial condition.							
hereby certify the above is true and correct to the best of my belief.							
Signature							
Name							
Title	Title						
Company	Name						
Telephone	e Number						
Fax Numb	oer						
Email Add	Iress						

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

- 1. The Bidders' attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
- 2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate <u>work force</u> in each trade on all construction work in the covered area, are as follows:

Timetable Goals for Minority Participation for Each Trade (11.9)

Goals for Female Participation in Each Trade (6.9)

These goals are applicable to all the Contractor's construction work (whether or not it is federal or federally assisted) performed in the covered area.

The Contractor's compliance with the Executive Order and the regulations in 41 C.F.R. Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 C.F.R. 60-4.3 (a), and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 C.F.R. Part 60-4. Compliance with the goals will be measured against the total work hours performed.

- 3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.
- 4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" includes the County of Orange, California.

BIDDER'S CERTIFICATE OF COMPLIANCE REGARDING WORKERS' COMPENSATION INSURANCE

In conformance with current statutory requirements of Section 1860, et. seq., of the Labor Code of the State of California, the undersigned confirms the following certification:

"I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that code and I will comply with such provisions before commencing the performance of the work of this Contract."

Bidder/Contractor:	 	
Signature:	 	
Name and Title:	 	
Date:	 	

BIDDER'S CERTIFICATE OF COMPLIANCE REGARDING STATE OF CALIFORNIA BUSINESS AND PROFESSIONS CODE SECTION 7028.15

ntractor License Number:
oiration Date of Contractor's License:
ch, every and all of the representations made by Bidder in the attached bid are truded correct.
Name of Bidder/Contractor:
Signed:
Title:
bscribed to and sworn before me, a Notary Public in and for the State of lifornia, on, 202
Notary Public
My commission expires on:
, 202
(NOTARY SEAL

LIST OF SUBCONTRACTORS (EXHIBIT D)

List only the subcontractors, which will perform work or labor or render services to the bidder in <u>excess of one-half of one percent</u> (1/2 of 1%) of the bidder's total bid amount. Do not list alternative subcontractors for the same work. (Use additional sheets if necessary.)

Name & Address Under Which Subcontractor is Licensed	License Number	DIR Registration No.	Specific Description of Work to be Rendered	Small Business Y/N	Туре	Dollar Amount
						\$
						\$
						\$
						\$
						\$
						\$
						\$
	TOTAL V	ALUE OF SUBCONTRAC	CTED WORK			

Bidder's Name	9	

STATUS OF PAST AND PRESENT CONTRACTS FORM

On the form provided below, Offeror/Bidder shall list the status of past and present contracts where the firm has either provided services as a prime vendor or a subcontractor during the past five (5) years in which the contract has been the subject of or may be involved in litigation with the contracting authority. This includes, but is not limited to, claims, settlement agreements, arbitrations, administrative proceedings, and investigations arising out of the contract.

A separate form must be completed for each contract. Offeror/Bidder shall provide an accurate contact name and telephone number for each contract and indicate the term of the contract and the original contract value. Offeror/Bidder shall also provide a brief summary and the current status of the litigation, claims, settlement agreements, arbitrations, administrative proceedings, or investigations. If the contract was terminated, list the reason for termination.

Offeror/Bidder shall have an ongoing obligation to update the Authority with any changes to the identified contracts and any new litigation, claims, settlement agreements, arbitrations, administrative proceedings, or investigations that arise subsequent to the submission of the bid. Each form must be signed by an officer of the Offeror/Bidder confirming that the information provided is true and accurate.

Project city/agency/other:	
Contact Name:	Phone:
Project Award Date:	Original Contract Value:
Term of Contract:	
(1) Litigation, claims, settlements, arbiti	rations, or investigations associated with contract:
(2) Summary and Status of contract:	
(3) Summary and Status of action identified	ied in (1):
(A) Decree for torrelation if anyther block	
(4) Reason for termination, if applicable:	
By signing this Form entitled "Status of Painformation provided is true and accurate.	ast and Present Contracts," I am affirming that all of the
Name	Signature
Title	Date

Revised. 03/16/2018

Non-Collusion Affidavit

To the Orange County Transportation Authority

In accordance with Title 23 United States Code Section 112 and Public Contract Code 7106 the bidder declares that the bid is not made in the interest of, or on the behalf of, any undisclosed person, partnership, company, association, organization or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly, or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Name of Bidder:	—
Signature:	
Date:	

(D: 1)

IRAN CONTRACTING ACT CERTIFICATION

(California Public Contract Code Sections 2200, et seq.)

The Iran Contracting Act of 2010 (PCC Sections 2200-2208), prohibits bidders who are engaged in investment activities in the energy sector of Iran from bidding on, submitting proposals for, or entering into or renewing contracts with public entities for goods or services of one million dollars (\$1,000,000) or more. At the time of submitting a bid, each bidder must certify that the bidder is not identified on the Department of General Services list of ineligible persons pursuant to PCC Section 2203(b). Each bidder is also required to certify that the bidder is not engaged in investment activities in violation of the Iran Contracting Act of 2010.

A bidder who is engaged in investment activities in the energy sector of Iran is defined as:

- A person providing goods or services of twenty million dollars (\$20,000,000) or more in the energy sector of Iran, including a person that provides oil or liquefied natural gas tankers, or products used to construct or maintain pipelines used to transport oil or liquefied natural gas, for the energy sector of Iran; or
- 2. A person that is a financial institution that extends twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that person will use the credit to provide goods or services in the energy sector in Iran and is identified on a list created pursuant to PCC Section 2203(b).

A bidder is not required to certify that it is engaged in investment activities in the energy sector of Iran if the bidder is exempt from the certification under PCC Section 2203(c) or (d). If the bidder is exempt from the certification requirement, the bidder will be required to provide documentation demonstrating the exemption.

To comply with the Iran Contracting Act of 2010, the bidder shall complete **one** of the options below. Please note: under PCC Section 2205, false certification of this form may result in civil penalties of \$250,000 or twice the amount of the contract for which false certification was made, termination of the contract, and/or ineligibility to bid on contracts for a period of three years.

Option No. 1: Certification

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below, and any subcontractor who will perform work or labor or render services to the vendor identified below, is not on the current Department of General Services list identifying persons engaged in investment activities in the energy sector of Iran, and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current Department of General Services list identifying persons engaged in investment activities in the energy sector of Iran.

Vendor/Financial Institution:
Signature:
Name and Title:
Date:

Option No. 2: Exemption

Pursuant to PCC Section 2203(c) and (d), a public entity may permit a bidder or financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit proposals for, or enter into or renew a contract with a public entity for goods or services of one million dollars (\$1,000,000) or more. If the bidder, financial institution, or any subcontractor who will perform work or labor or render services to the bidder has obtained an exemption from the certification requirement, please complete and sign below and attach the documentation demonstrating the exemption approval.

Vendor/Financial Institution:	
Cianatura	
Signature:	
Name and Title:	
Date:	

Option No. 3: Non-Applicability

Pursuant to PCC Section 2203(b), a bidder or financial institution engaged in investment activities in Iran may not be eligible for, or to bid on, submit proposals for, or enter into or renew a contract with a public entity for goods or services of one million dollars (\$1,000,000) or more. If the contract is not for goods or services of one million dollars (\$1,000,000) or more, please sign below indicating that the contract is not for goods or services of one million dollars (\$1,000,000) or more and thus bidder is not required to certify and does not meet the exemption.

Vendor/Financial Institution: _	
Signature:	
Nigoro and Title	
Date:	

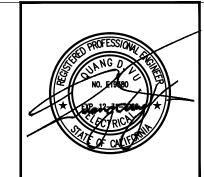
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03-28-2025

AS NOTED



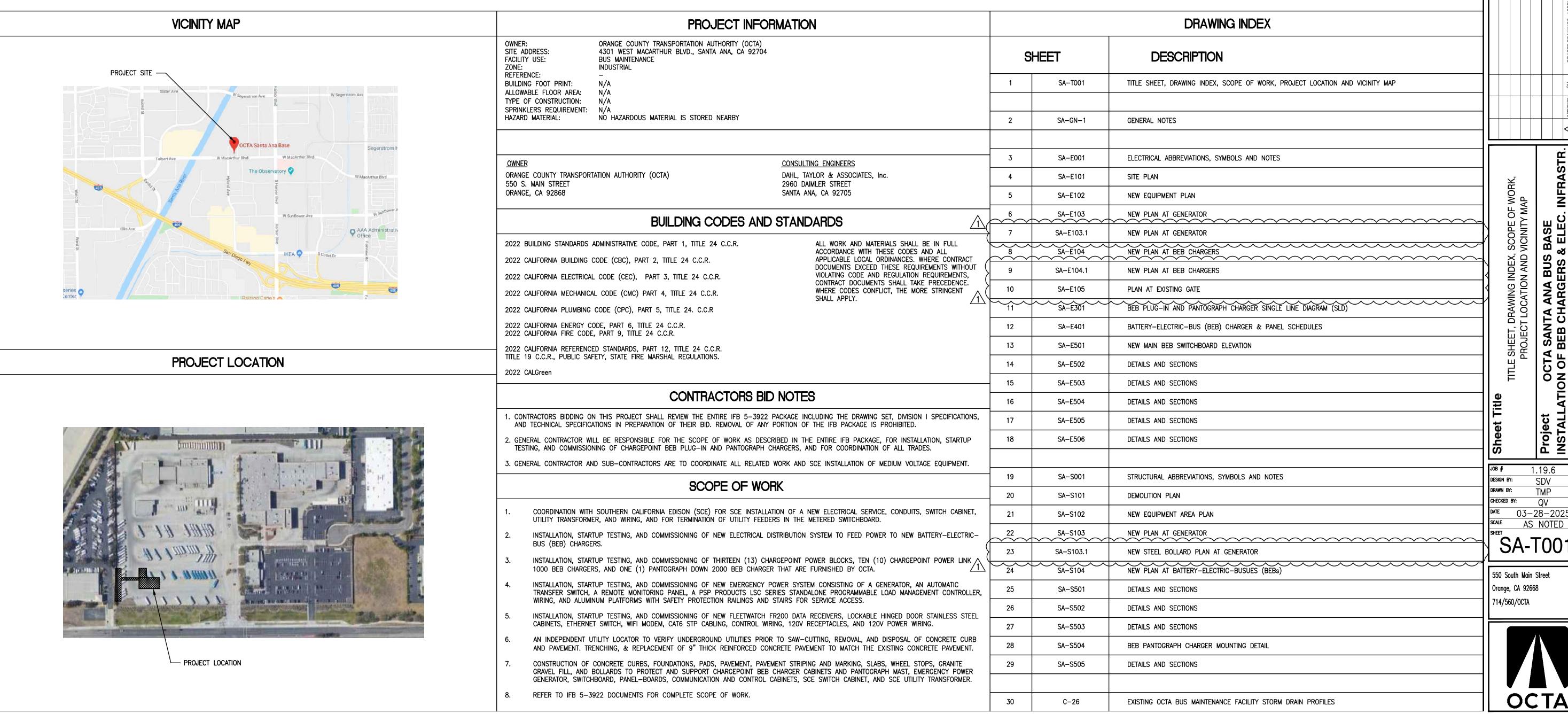




SANTA ANA BUS BASE

INSTALLATION OF BATTERY-ELECTRIC BUS CHARGERS AND ELECTRICAL INFRASTRUCTURE 4301 WEST MACARTHUR BOULEVARD SANTA ANA, CA 92704

CONTRACT No. C-5-3922



GENERAL NOTES

GENERAL NOTES:

- 1) THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, TOOLS, AND EQUIPMENT TO PROVIDE A COMPLETE AND FINISHED PRODUCT. ALL MATERIALS SHALL BE NEW, UNLESS NOTED OTHERWISE.
- 2) ALL WORK PERTAINING TO THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND THE SPECIFICATIONS, AND CONTRACT DOCUMENTS, AND THE LOCAL AGENCY OF JURISDICTION BUILDING CODE REQUIREMENTS. CONTRACTOR IS REQUIRED TO OBTAIN CONSTRUCTION PERMIT AND BUSINESS LICENSE FROM THE CITY BEFORE BEGINNING CONSTRUCTION WORK.
- 3) THE CONTRACTOR SHALL INFORM THE PROJECT MANAGER 72 HOURS BEFORE STARTING CONSTRUCTION WORK. THE PROJECT ENGINEER WILL SCHEDULE A MEETING BETWEEN CONTRACTOR AND OCTA FACILITY AND OPERATION STAFF BEFORE WORK BEGINS.
- 4) THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, FENCES AROUND WORK AREA, WARNING SIGNS, AND OTHER PROTECTIVE DEVICES, AND TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT ALL OCTA PERSONNEL, PUBLIC, PROPERTY AND THE WORK.
- 5) DUST CONTROL SHALL BE REQUIRED DURING CONSTRUCTION. DUST SHALL BE CONTROLLED BY THE CONTRACTOR BY ENCLOSING AREA OF WORK WITH PLASTIC SHEET OR CANVAS BARRICADES TO PREVENT DUST SPREAD TO ADJACENT BUSES, BUILDINGS, EQUIPMENT AND OCTA WORKERS.
- 6) DEMOLITION NECESSARY FOR COMPLETION OF CONSTRUCTION SHALL BE A PART OF THIS PROJECT. THE EXISTING MATERIAL REMOVED DURING CONSTRUCTION, SHALL BE LEGALLY DISPOSED OFF-SITE DAILY. ALL DEBRIS SHALL BE REMOVED FROM PREMISES DAILY AND ALL AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION AT ALL TIMES, AND AT THE END OF EACH WORK DAY, CLEAN THE WORK AND SURROUNDING AREAS WHERE CONSTRUCTION DEBRIS HAS SPREAD DURING THE WORK DAY.
- 7) ALL DRAINAGE FROM NEW CONSTRUCTION WORK SHALL BE PREVENTED FROM ENTERING EXISTING STORM DRAINS ON SITE.
- 8) THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ABOVE AND BELOW GROUND UTILITIES, EQUIPMENT, AND STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS. THE PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. AT EACH OCTA'S PROPERTY, THE CONTRACTOR SHALL UTILIZE AN INDEPENDENT UNDERGROUND UTILITY LOCATING SERVICE, WHICH USES STANDARD LOCATING TECHNIQUES OTHER THAN EXCAVATING, TO IDENTIFY THE LOCATION OF UNDERGROUND UTILITIES IN THE AREAS OF THE WORK PRIOR TO EXCAVATING. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF UTILITIES IDENTIFIED IN THE WORK AREA BY POTHOLING USING HAND TOOLS BEFORE USING ANY POWER OPERATED EXCAVATING EQUIPMENT. UTILITIES NOT SHOWN ON THE PLANS WHICH ARE IN DIRECT CONFLICT WITH THE WORK WILL BE DEALT WITH BY CHANGE ORDER. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR THE REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE BY HIS OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE CONTRACT WORK.
- 9) THE CONTRACTOR SHALL DELINEATE TRAFFIC THROUGH THE CONSTRUCTION WORK AREA, AND SHALL COOPERATE WITH THE OCTA FACILITY, OPERATIONS, AND MAINTENANCE PERSONNEL TO KEEP THE FACILITY OPERATIONAL AT ALL TIMES. PROVIDE A 20 FEET WIDE DRIVE-WAY ADJACENT TO WORK AREA FOR BUS AND OTHER TRAFFIC TO PASS AROUND WORK AREA. PROVIDE ACCESS FOR BUS AND CAR PARKING IN ADJACENT PARKING STALLS. CONTRACTOR IS REQUIRED TO KEEP OCTA BUS AND FACILITY TRAFFIC OPERATIONAL AT ALL TIMES. DO NOT PARK TRUCKS EQUIPMENT IN BUS DRIVEWAYS, ENTRANCE OR EXITS.
- 10) ALL WORK SHALL BE COMPLETED BETWEEN THE HOURS OF 7:00 A.M. AND 3:30 P.M. ALL EXISTING FACILITIES, EQUIPMENT, AND UTILITIES DISCONNECTED BY CONTRACTOR DURING THE WORK DAY SHALL BE RE-CONNECTED AT 3:30 PM FOR OCTA TO CONTINUE ITS NORMAL AFTER HOURS OPERATIONS.
- 11) PLANS HAVE BEEN PREPARED FROM VISUAL AND ACTUAL MEASUREMENT OF THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE PROJECT MANAGER ANY ERROR, INCONSISTENCY, OR OMISSION HE MAY DISCOVER IN THE DRAWINGS BEFORE BEGINNING WORK. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY ERROR AT NO COST TO THE AUTHORITY AFTER THE START OF CONSTRUCTION. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. IN CASE OF DISCREPANCIES, CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE PROJECT MANAGER. SUBMITTAL OF BID INDICATES CONTRACTOR IS AWARE OF SITE AND WORK CONDITIONS AND UNDERSTANDS THE WORK REQUIRED BY THE CONTRACT.
- 12) ON SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE RESPONSIBILITY OF THE CONTRACTOR, NOTIFY PROJECT MANAGER OF ANY DISCREPANCY BEFORE STARTING WORK.
- 13) THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER, AND OTHER FACILITIES REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES ON SITE FOR HIS WORKERS WHICH SHALL BE CLEANED ON A DAILY BASIS.
- 14) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE WORK WHILE THE WORK IS IN PROGRESS AND UNTIL COMPLETED.
- 15) THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE OR REMEDY ANY FAULTY, IMPROPER OR INFERIOR MATERIAL OR WORKMANSHIP, OR ANY DAMAGE TO WORK OR ADJACENT AREAS OR STRUCTURES.
- 16) CONTRACTOR SHALL COMPLY WITH ALL SAFETY CODE REGULATIONS AND THE STATE DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF INDUSTRIAL SAFETY (O.S.H.A.) REQUIREMENTS.
- 17) VERIFY ALL MEASUREMENTS ON SITE BEFORE PREPARING AND SUBMITTING SHOP DRAWINGS.
- 18) THE CONTRACTOR SHALL POST ADVANCE CONSTRUCTION WARNING SIGNS. THE CONTRACTOR SHALL PROVIDE ALL BARRICADES, WARNING SIGNS, AND PROTECTIVE DEVICES AND SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL PERSONNEL, PROPERTY, AND THE WORK SITE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE FLASHING LIGHTS AROUND THE CONSTRUCTION WORK AREA ON THE BARRICADES FROM DUSK (4:00 PM) TO DAWN (7:00 AM) EVERYDAY WHEN WORK IS IN PROGRESS. COMPLETELY CLOSE WITH BARRICADES ENTRANCE AND EXITS OF THE CONSTRUCTION AREA, AND INSTALL NOTIFICATION SIGNS IN ADVANCE OF CLOSURE OF THE AREA FOR CONSTRUCTION, INSTALL NOTIFICATION SIGNS ONE WEEK BEFORE CONSTRUCTION BEGINS.
- 19) WORK UNDER THIS CONTRACT SHALL BE DONE SO THAT EXISTING BUS OPERATIONS AND BUS MAINTENANCE SHALL REMAIN IN FULL OPERATIONS DURING CONSTRUCTION. OCTA'S BUS OPERATION AND BUS MAINTENANCE, REPAIR SHALL REMAIN UNINTERRUPTED, ONGOING, AND IN FULL OPERATION DURING CONSTRUCTION. CONTRACTOR SHALL ARRANGE HIS WORK TO OFFER LEAST INTERFERENCE TO OCTA'S CONTINUED DAILY BUS OPERATION AT THE BUS BASE. KEEP NON-CONSTRUCTION AREAS OPEN TO OCTA STAFF WORK.

- 20) CONTRACTOR SHALL ARRANGE HIS WORK TO OFFER LEAST INTERFERENCE WITH OCTA DAILY BUS OPERATIONS. OCTA PROJECT MANAGER WILL COORDINATE WORK ACTIVITIES, AND TEMPORARY CHANGES IN FACILITY ACTIVITY WHICH ARE NECESSARY FOR CONTRACTOR'S WORK. CONTRACTOR SHALL COORDINATE HIS WORK ACCORDINGLY.
- 21) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING FACILITIES RESULTING FROM HIS CONSTRUCTION. ALL DISTURBED OR DAMAGED AREAS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE AND/OR PATCHED TO MATCH ADJACENT MATERIALS, OR AS EXISTED BEFORE CONSTRUCTION.
- 22) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES WHETHER SHOWN ON THE DRAWINGS OR NOT, AND TO PROTECT THEM AS NECESSARY. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES DAMAGED BY HIS OPERATIONS OR CONSTRUCTION WORK. CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE WORK AREA AND PROTECT THEM FROM DAMAGE. IF DAMAGED BY CONSTRUCTION, CONTRACTOR WILL BE REQUIRED TO REPAIR DAMAGED UTILITY IMMEDIATELY SO THAT OCTA BUS OPERATIONS IS NOT INTERRUPTED. PROVIDE TEMPORARY UTILITIES DURING BREAKDOWN PERIOD. CONTRACTOR SHALL FULLY CO-OPERATE WITH OCTA BUS AND FACILITY MAINTENANCE STAFF TO COMPLETE THE WORK. IF REQUIRED BY OCTA STAFF, PROVIDE TEMPORARY FACILITIES, UTILITIES, OR EQUIPMENTS DURING TEMPORARY DISCONNECTION, BREAKDOWN, OR DAMAGE OF OCTA FACILITIES, UTILITIES, OR EQUIPMENTS DUE TO CONTRACTOR'S WORK.
- 23) NO OMISSION OF THE WORK SHALL BE MADE WITHOUT WRITTEN APPROVAL OF OCTA.
- 24) NO SUBSTITUTION OF THE WORK SHALL BE MADE WITHOUT WRITTEN APPROVAL OF OCTA. CHANGES TO THE CONTRACT DRAWINGS OR SPECIFICATIONS SHALL BE MADE BY A WRITTEN ADDENDUM OR CHANGE ORDER APPROVED BY OCTA.
- 25) ALL WORKMANSHIP SHALL BE PERFORMED BY SKILLED MECHANICS USING THE BEST STANDARD PRACTICES OF THE TRADE AND CONSTRUCTION INDUSTRY.
- 26) WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE SIMILAR TO THAT INDICATED OR NOTED FOR SIMILAR CONDITIONS OF CONSTRUCTION ON THE PROJECT. REFERENCES OF NOTES AND DETAILS TO SPECIFIC CONDITIONS AND LOCATIONS SHALL NOT LIMIT THEIR APPLICABILITY.
- 27) THE STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TEMPORARY SHORING, BRACING, SCAFFOLDING, AND OTHER SUPPORTS NECESSARY. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BACKING, SUPPORTS, SLEEVES, FRAMING FOR SUPPORTING THE WORK DURING INSTALLATION.
- 28) CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT OCTA STAFF AND BUSES FROM ENTERING CONSTRUCTION AREA DURING DEMOLITION AND CONSTRUCTION. SIGNS SHALL BE POSTED TO NOTIFY OCTA WORKERS OF CONSTRUCTION. PROVIDE BARRIERS AROUND GENERAL AREA OF CONSTRUCTION WHILE WORK IS IN PROGRESS. FENCES, BARRICADES, ENCLOSURES, WARNING SIGNS, ETC. SHALL BE PROVIDED AROUND THE LOCAL WORK AREA BY THE CONTRACTOR TO KEEP THE PUBLIC OUT OF CONTRACTOR'S WORK AREA AND WARN THE PUBLIC OF CONSTRUCTION WORK IN PROGRESS.
- 29) THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THE REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 30) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND SECURITY OF THE PROPERTY AND ALL WORKERS ON SITE. CONTRACTOR SHALL PROVIDE ALL SAFETY EQUIPMENT FOR HIS WORKERS.
- 31) THE SCHEDULE OF THE PROJECT IS CRITICAL. EACH SUB-CONTRACTOR SHALL START HIS WORK PER THE SCHEDULE AND PURSUE IT DILIGENTLY AND COMPLETE IT IN ACCORDANCE WITH THE GENERAL CONTRACTOR'S SCHEDULE OF CONSTRUCTION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUPERVISION OF THE WORK OF ALL ITS SUB-CONTRACTORS.
- 32) CARE SHALL BE EXERCISED TO PREVENT DAMAGE DUE TO CARELESSNESS OR VANDALISM. ALL MATERIALS AND EQUIPMENT SHALL BE SECURED AFTER WORKING HOURS. NO CONSTRUCTION MATERIALS OR EQUIPMENT ARE TO BE LEFT UNSECURED AT ANY TIME. THE CONTRACTOR SHALL PROVIDE FOR HIS OWN SECURITY, STORAGE ENCLOSURES AS NECESSARY IN DESIGNATED LAY-DOWN OR STORAGE ENCLOSURE AREA APPROVED BY THE OCTA FACILITY MAINTENANCE MANAGER. THE CONTRACTOR SHALL BE RESPONSIBLE TO FENCE AND SECURE HIS STORAGE AND EQUIPMENT AT ALL TIMES. OCTA IS NOT RESPONSIBLE FOR CONTRACTOR'S MATERIAL OR EQUIPMENT LOSS ON OCTA PROPERTY. CONTRACTOR'S MATERIALS, TRUCKS, OR EQUIPMENTS SHALL NOT BLOCK TRAFFIC DRIVEWAYS OR OCTA BUS OPERATIONS AND MAINTENANCE WORK DURING CONSTRUCTION.
- 33) DO NOT BLOCK BUS ENTRANCE, EXITS AND DRIVEWAYS OR BUS PARKING STALLS WITH CONTRACTOR'S MATERIAL, EQUIPMENT OR TRUCKS. KEEP ALL MATERIALS, TOOLS, EQUIPMENT, AND TRUCKS WITHIN LIMIT OF CONSTRUCTION OR IN ASSIGNED SPACE BY FACILITY MANAGER.
- 34) DO NOT LOAD OR STORE NEW EQUIPMENT (TO BE INSTALLED) AT ONE SPOT OR LOCATION ON THE ROOF.
- 35) WHEN WORKING ON ROOF TO INSTALL EQUIPMENT DURING CONSTRUCTION, CONTRACTOR IS REQUIRED TO CORDON OFF (WITH TRAFFIC DELINEATORS AND YELLOW WARNING TAPE) WORKING AREA BELOW IN THE SHOP (MAINTENANCE BUILDING) SO THAT OCTA WORKERS ARE AWARE OF CONSTRUCTION WORK OVERHEAD ON ROOF. PREVENT TOOLS, EQUIPMENT AND DEBRIS FROM FALLING BELOW IN WORK AREAS OF MAINTENANCE BUILDING.
- 36) THIS TASK SHALL BE COORDINATED WITH THE PROJECT MANAGER, BUS BASE MANAGER, AND FACILITY MANAGER

A JOB HAZARD ANALYSIS SHALL BE DEVELOPED FOR THE TASK THAT IDENTIFIES DAILY SAFETY TAILGATE BRIEFINGS, BARRICADES, VEHICLE AND EQUIPMENT STAGING (DIAGRAM), COMMUNICATIONS, EVACUATING EFFECTED PERSONNEL INSIDE THE BUILDING, CRANE ACTIVITY, REMOVING OLD EQUIPMENT, INSTALLING NEW EQUIPMENT, FALL PROTECTION, ALLOWING EFFECTED EVACUATED PERSONNEL BACK INTO THEIR AREA OF BUILDING, HOUSEKEEPING/CLEAN-UP, DEMOBILIZATION. THE JOB HAZARD ANALYSIS IS REQUIRED TO BE SUBMITTED TO THE OCTA PROJECT MANAGER 10 WORKING DAYS PRIOR TO THE SCHEDULED HVAC TASK ACTIVITY FOR OCTA REVIEW.

NO LATER THAN TEN (10) WORKING DAYS PRIOR TO THE ARRIVAL OF A CRANE, THE CONTRACTOR MUST PROVIDE THE MOST RECENT ANNUAL AND QUADRENNIAL CERTIFICATES. THE CONTRACTOR MUST ALSO PROVIDE CRANE OPERATOR CERTIFICATES FROM THE NATIONAL COMMISSION FOR THE CERTIFYING OF CRANE OPERATORS (NCCCO), AS OUTLINED IN CIIPP, NO LATER THAN TEN WORKING DAYS PRIOR TO A CRANE OPERATOR WORKING ON SITE.

PICK AND CARRY WITH RUBBER TIRED CRANES IS FORBIDDEN ON OCTA PROJECTS.

A RIGGING PLAN DEVELOPED BY THE CRANE COMPANY OR CRANE OWNER IS REQUIRED FOR ALL LIFTS. THE RIGGING PLAN SHALL BE SUBMITTED NO LATER THAN 10 WORKING DAYS PRIOR TO THE SCHEDULED CRANE ACTIVITY FOR OCTA REVIEW.

THE PLAN SHALL INCLUDE:

- THE VERIFIED LOAD WEIGHT AND THE RIGGING WEIGHTS
- BOTTOM ANGLE AND REACH IN FEET FOR THIS LOAD PLACEMENT
- COPY OF THE LOAD CHART APPLICABLE TO THE ANGLE, REACH AND LOAD
 THE PERCENTAGE OF CRANE RATED CAPACITY FOR THIS LOAD PLACEMENT
- A PLOT PLAN OR GOOGLE MAP DIAGRAM OF THE CRANE SET-UP LOCATION AND THE LOAD PLACEMENT LOCATIONS
- IDENTIFY THE COMMUNICATION METHOD (RADIO, HAND SIGNAL, ECT.)
- DELIVERY TRUCK/TRAILER LOCATION

CRITICAL LIFTS REQUIRE AN ENGINEERED PLAN DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN CALIFORNIA. A CRITICAL LIFT INCLUDES, BUT IS NOT LIMITED TO:

- 1. ANY LIFT LOCATION THAT COULD RESULT IN THE BOOM OR LOAD FALLING INTO A HAZARDOUS AREA IN THE EVENT OF A MISHAP, INCLUDING ENERGIZED ELECTRICAL WIRING AND EQUIPMENT, GAS MANIFOLDS, AND OPERATING MACHINERY,
- 2. LIFTS EQUAL TO OR GREATER THAN 10 TONS,
- 3. LIFTS EQUAL TO OR GREATER THAN 75% OF RATED CAPACITY,
- 4. LIFTS OVER OCCUPIED BUILDINGS, RAILWAYS OR PUBLIC ROAD WAYS,
- 5. THE USE OF MULTIPLE CRANES FOR ONE LIFT, AND/OR
- 6. LIFT AND TRANSIT OF LOAD GREATER THAN 75% OF RATED CAPACITY OF TRACK CRAWLER CRANE.
- 37) DURING CONSTRUCTION REMOVE EQUIPMENT, DISCONNECT OR REMOVE UTILITIES, AND ROOF ACCESSORIES TO FACILITATE AND INSTALL NEW EQUIPMENT. REINSTALL ALL THE ABOVE AFTER NEW EQUIPMENT HAS BEEN INSTALLED AND OPERATIONAL. INFORM OCTA, SEVEN DAYS AHEAD OF EQUIPMENT OF UTILITY DISCONNECTION.
- 38) THE PROTECTION OF ALL OCTA PROPERTY, STRUCTURES, EQUIPMENT, UTILITIES, AND ACCESSORIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 39) THE EXTENT OF THE WORK IS ONLY INDICATED GENERALLY ON THE DRAWINGS ARE BASED ON EXISTING CONDITIONS AND RECORD DRAWINGS.
- 40) IT IS THE INTENT OF THESE CONSTRUCTION DOCUMENTS TO INCLUDE ITEMS AND COMPONENTS FOR THE PROPER EXECUTION OF THE WORK, AND FOR THE PROVISION FOR A COMPLETE FUNCTIONING SYSTEM. IN THAT REGARD ALL APPURTENANT AND ACCESSORY ITEMS AND COMPONENTS REQUIRED FOR THE CONSTRUCTION OF COMPLETE AND FUNCTIONING SYSTEM SHALL BE PROVIDED WHETHER SPECIFICALLY IDENTIFIED IN THESE DOCUMENTS OR NOT.
- 41) BEFORE SUBMITTING A BID, CONTRACTOR SHALL VISIT THE SITE IN THE PRE-BID JOB-WALK AND VERIFY ALL EXISTING ITEMS SHOWN ON THE PLANS, CONDITIONS, HAZARDS, ELEVATIONS, STRUCTURES, EQUIPMENT, UTILITIES, AND LOCAL REQUIREMENTS. SUBMISSION OF A BID BY THE CONTRACTOR SHALL BE DEEMED EVIDENCE OF SUCH VISIT AND REVIEW OF SITE. ALL BIDDERS SHALL TAKE THESE EXISTING CONDITIONS INTO CONSIDERATION AND A LACK OF SPECIFIC INFORMATION ON THE DRAWING SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY. NO REQUEST FOR ADDITIONAL PAYMENT SHALL BE CONSIDERED AS VALID DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH CURRENTLY EXISTS ON SITE.
- 42) LOCATIONS AND ELEVATIONS OF THE VARIOUS ITEMS INCLUDED WITHIN THE WORK HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND LIMITED FIELD SURVEY. CONTRACTOR SHALL EXAMINE THE SITE, VERIFY FIELD CONDITIONS, STRUCTURES, EQUIPMENT UTILITIES AND SERVICES REQUIRED AND BE ADEQUATELY INFORMED AS TO THEIR RELATION TO THE WORK. THE SUBMISSION OF BID SHALL BE DEEMED OF EVIDENCE OF SUCH A VISIT.
- 43) OCTA STAFF WILL CONTINUE TO WORK ON BUS MAINTENANCE AND REPAIR DURING CONSTRUCTION IN THE MAINTENANCE BUILDING. CONTRACTOR'S WORK SHALL NOT DISRUPT OCTA BUS MAINTENANCE WORK.
- 44) CONTRACTOR WILL BE ALLOWED TO WORK ON REMOVING AND REPLACING ONE HV UNIT AT A TIME. CONTRACTOR SHALL REMOVE AND REPLACE ONE FAN AND COMPLETE ALL WORK ON THE FAN INCLUDING MAKING IT OPERATIONAL BEFORE PROCEEDING TO THE NEXT HV UNIT REPLACEMENT. THE CONTRACTOR SHALL COORDINATE THE WORK WITH OCTA PROJECT MANAGER AND FACILITY MAINTENANCE TO SEQUENCE HIS DAILY WORK SCHEDULE.
- 45) CONTRACTOR SHALL SCHEDULE DEACTIVATION OF UTILITIES WITH THE OCTA PROJECT MANAGER AND FACILITY MAINTENANCE. DEACTIVATION OR RELOCATION OF UTILITIES, SYSTEMS, EQUIPMENT, OR OTHER ACCESSORIES SHALL BE SCHEDULE A WEEK IN ADVANCE WITH THE PROJECT MANAGER. PROVIDE TEMPORARY SERVICE DURING DEACTIVATION PERIOD. MINIMIZE DEACTIVATION DOWN TIME.
- 46) CONTRACTOR SHALL COVER ALL OCTA EQUIPMENT, STRUCTURES BELOW IN BUS MAINTENANCE BAYS WHEN WORKING ON ROOF TO PREVENT DUST SPREAD AND DAMAGE TO OCTA TOOLS, EQUIPMENT. CLEAN ALL ABOVE ITEMS AND WORK AREA AT END OF WORK DAY.
- 47) THE GENERAL CONTRACTOR SHALL TAKE ALL PREVENTIVE MEASURES DURING CONSTRUCTION TO PREVENT DAMAGE TO OCTA PROPERTY AND STAFF WORKING IN AND AROUND THE BUILDING. THE MAINTENANCE BUILDING STAFF WILL BE WORKING IN THE BUILDING DURING CONSTRUCTION WORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE OR REPAIR ANY FAULTY IMPROPER OR INFERIOR MATERIAL OR WORKMANSHIP OR ANY DAMAGE TO THE WORK OR ADJACENT AREAS, OR STRUCTURES IN AND AROUND THE MAINTENANCE BUILDING.



Project OCTA SANTA ANA BUS BASE
INSTALLATION OF BEB CHARGERS & ELEC. INFRASTR.
4301 WEST MACARTHUR BOULEVARD, SANTA ANA, CA

JOB #	1.19.6
DESIGN BY:	SDV
DRAWN BY:	TMP
CHECKED BY	: QV
DATE	03-28-2025
SCALE	AS NOTED
SHEET	

SA-GN-1

550 South Main Street
Orange, CA 92668
714/560/OCTA



GENERAL NOTES	ABBREVIATIONS		SYMBOLS L	EGEND	PROFESSION	
THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND GENERAL NOTES DESCRIBE THE SCOPE OF WORK; CONSTRUCTION DOCUMENTS ARE TO BE USED FOR THE PURPOSE OF BIDDING, BUILDING DEPARTMENT REVIEW, AND TO SECURE THE NECESSARY CONSTRUCTION PERMIT. ALL EQUIPMENT	AC AIR CONDITIONING LCL LC AF AMPERE FUSE OR AMP FRAME L.O. LU	LIGHTING ARRESTOR LONG CONTINUOUS LOAD LUGS ONLY LIGHTING		(E) (N)	INDICATES EXISTING INDICATES NEW	
SHOWN IS NEW, CONTRACTOR FURNISHED AND INSTALLED, UNLESS NOTED OTHERWISE (U.N.O.). 2. THE CONTRACTOR SHALL VERIFY THE INPUT VOLTAGE AND AMPERAGE (HORSEPOWER) RATING OF ALL EQUIPMENT PRIOR TO INSTALLATION, AND NOTIFY THE ENGINEER FOR DIRECTION PRIOR TO PROCEEDING.	AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE MCB MA AIC AMPERES INTERRUPTING CAPACITY MCC TH	MAIN CIRCUIT BREAKER THOUSAND CIRCULAR MIL(S) MECHANICAL	(E) SOUTHER MOONTED DIVINOIT ONCOTT TABLE BOARD	$\left\langle \frac{A}{22} \right\rangle$	LIGHT FIXTURE CALL—OUT. TOP NUMBER: IDENTIFICATION NUMBER. BOTTOM NUMBER: INPUT WATTAGE.	$\rfloor \lfloor$
3. PROVIDE AN ADDITIONAL JUNCTION BOX (SIZE AS REQUIRED) WHERE THE NUMBER OF CONDUCTORS EXCEEDS THE MAXIMUM ALLOWED FOR A GIVEN JUNCTION POINT OR OUTLET.	ALT ÀLTERNATE MH MA ARCH ARCHITECTURAL NE AS AMPERE SWITCH MIN MI	MANHOLE OR MOUNTING HEIGHT NEUTRAL, OR METAL HALIDE MINIMUM		ㅁ	NON-FUSED DISCONNECT SWITCH	
4. ELECTRICAL CONTRACTOR SHALL PROVIDE CONSTRUCTION AND SHOP DRAWINGS FOR APPROVAL BY THE OWNER BASED ON THESE DRAWINGS, SPECIFICATIONS AND ADDITIONAL DESIGN CRITERIA FURNISHED BY OWNER.	ATS AUTOMATIC TRANSFER SWITCH LOD MC AWG AMERICAN WIRE GAUGE MTD MC	MAIN LUGS ONLY MOTOR OPERATED DAMPER MOUNTED MOUNTING	HOMERUN TO PANEL "A", CIRCUIT 4	E	FUSED DISCONNECT SWITCH, FUSED PER EQUIPMENT MANUFACTURER'S NAMEPLATE RATING	
5. CONTRACTOR'S BID SHALL INCLUDE ALL PREMIUM OVERTIME COSTS, UTILITY CHARGES, COST FOR TEMPORARY UTILITY SERVICES, ALTERATION, DEMOLITION AND EXTENSION WORK, PLAN CHECK / INSPECTION FEES, MISCELLANEOUS CONTINGENCY COSTS, ETC.	BATT BATTERY BCC BARE COPPER CONDUCTOR N NE BD BOARD (N) NE BFG BELOW FINISHING GRADE NA NO	NEUTRAL NEW NON-AUTOMATIC	— CONDUIT BELOW FLOOR OR GRADE, OR IN SLAB	\boxtimes_1	MOTOR STARTER, NEMA SIZE AS INDICATED.	
6. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, CONTRACTOR SHALL SUBMIT A REQUEST FOR CONSIDERATION TO THE OWNER AND ENGINEER IN WRITING PRIOR TO COMMENCEMENT OF WORK. ALL SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW AND APPROVAL. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHANGES RESULTING FROM HIS PROPOSED	BLDG. BUILDING NEC NAME NAME NAME NAME NAME NAME NAME NAME	NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NIGHT LIGHT NORMALLY CLOSED ———————————————————————————————————	WIREMOLDCONDUIT EXPOSED		MOTOR STARTER WITH O.L. PROTECTION, H.O.A SWITCH A RED PILOT LIGHT, AUXILARY CONTACTS AND L.V. TRANSFORMER, PROVIDE NAMEPLATES. NUMBER ADJACENT INDICATES STARTER SIZE. COMBINATION MOTOR STARTER WITH THERMAL/MAGNETIC C/B AND ELECTRONIC OVERLOAD RELAYS	
SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK OR THE WORK OF OTHER CONTRACTORS. 7. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS. COMPLY WITH ALL THE CLEARANCES	CL CURRENT LIMITING NTS NC CLF CURRENT LIMITING FUSES CLG CEILING O.C. ON	NORMALLY OPEN NOT TO SCALE ON CENTER OUTSIDE DIAMETER	CONDUIT STUBBED AND CAPPED	- ↑-	MOLDED CASE CIRCUIT BREAKER SIZE AS INDICATED ON SINGLE LINE DIAGRAM.	
AND MOUNTING HEIGHT REQUIREMENTS. ROUTE CONDUITS PER FIELD CONDITIONS, PREVENTING CONFLICTS WITH STRUCTURAL ELEMENTS AND EXISTING EQUIPMENT AND UTILITIES. COMPLY WITH THE NATIONAL ELECTRICAL CODE.	C.O. CONDUIT ONLY OL ON COMM. COMMUNICATION ORV OF CONT. CONTINUATION CT CURRENT TRANSFORMER	OVER LOAD OPERATOR RELIEF VEHICLES ———	CONDUIT RUNNING DOWN	100AS 90AFU	FUSED SWITCH. "AS" INDICATES AMPERE SWITCH RATING, "AFU" AMPERE FUSE RATING, NUMBER OF POLES AS INDICATED.	
8. ALL FINAL CONNECTIONS TO FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR UNLESS OTHERWISE NOTED. VERIFY ELECTRICAL CHARACTERISTICS AND U.L. LISTING PRIOR TO CONNECTION.	CTRL CONTROL PB PL CU COPPER P/B PL	POLE PULLBOX PUSH BUTTON			SWITCH	
9. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN THE EXISTING FIRE RATING. FURNISH AND INSTALL FIRE RATED ENCLOSURE FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC. PER NEC 300–21.	DB DECIBEL PIV PC	PHASE PHILIPS FLUORESCENT LAMPS POST INDICATING VALVE	PULLBOX, SIZE AS SHOWN ON PLAN	<u>+</u> M	UTILITY METER SOCKET, WITH C.T.S, CLIPS, ETC., PER SERVING UTILITY COMPANY.	
10. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS AND PARTITIONS MUST BE SEPARATED BY A DISTANCE OF 24 INCHES HORIZONTAL. OPENINGS IN FIRE RATED WALLS MUST	DE DUAL ELEMENT POC POUR DEF DUAL ELEMENT SWITCH PR PARTIES. DISC. SW. DISCONNECT SWITCH PR PARTIES.	POINT OF CONNECTION POWER PANEL PAIR			NEW CEILING-MOUNT DAYLIGHT SENSOR. WATT STOPPER MODEL # LS-101 OR APPROVED EQUAL.	
BE FIRE STOPPED. 11. CONDUCTORS SHALL BE COPPER XHWN-2/XHHW-2 600 VOLT INSULATION. USE PROPER TEMPERATURE RATING OF CONDUCTORS BASED ON THE AMBIENT AIR TEMPERATURE WHERE	DP DEPTH PT PC DPP DISTRIBUTION POWER PANEL PVC PC DWG. DRAWING PVS PH	PRIMARY POTENTIAL TRANSFORMER POLYVINYL CHLORIDE PHOTO VOLTAIC SYSTEM POWER	GENERATOR CONTACTOR	① s ^t	JUNCTION BOX, CEILING MOUNTED OR WALL MOUNTED NEW WALL TIMER SWITCH. +48" AFF. UNLESS OTHERWISE NOTED. LEVITON 6124H OR APPROVE EQU	AL
CONDUCTORS ARE LOCATED. HIGHER AMPACITY CONDUCTORS AND LARGER RACEWAY SHALL BE PROVIDED AS REQUIRED TO MEET THE AMPACITY CORRECTION FACTORS AS INDICATED IN NEC TABLE 310 AND ELSEWHERE IN CODE.	(E) EXISTING EA EACH R EX E.C. EMPTY CONDUIT RECEPT. RE	EXISTING TO BE RELOCATED RECEPTACLE	OVERLOAD RELAY	s _M	NEW MOTOR RATED SNAP SWITCH	
12. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS, BUS DUCTS, WIREWAYS AND CABLE TRAYS SHALL BE IN ACCORDANCE WITH THE "GUIDELINE FOR SEISMIC RESTRAINS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS" PUBLISHED BY SMACNA LATEST VERSION.	ELECT. ELECTRICAL ELEV ELEVATION FMAC ENERGY MANAGEMENT AND CONTROL REQMT'S RE REQMT'S RE	REQUIRED REQUIREMENTS RETURN FAN RIGID GALVANIZED STEEL	. GROUND	A-012	NEW LIGHTING FIXTURE A=PANEL NAME	
13. WHERE BRACING AND ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINE, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER. ALL EQUIPMENT ANCHORAGE SHALL BE DESIGNED PER 2022 CBC & ASCE 7-16	EMRG. EMERGENCY RLA RU EMS ENERGY MANAGEMENT AND RM. RC ENVIRONMENTAL CONTROL SYSTEM RMS RC EMT ELECTRICAL METALLIC TUBING	RUNNING LOAD AMPS ROOM ROOT-MEAN-SQUARE	(5 HORSEPOWER)	A-0123	01=CIRCUIT NUMBER 2=TIMER SWITCH CONTROLING FIXTURE	
FORMULA 13.3-1, 13.3-2, AND 13.3-3. 14. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL SURVEY THE ENTIRE PROJECT SITE AND BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN. THE CONTRACTOR SHALL BE DEEMED TO HAVE	EN EXISTING AT NEW LOCATION RSC RICE EQPT. EQUIPMENT EXIST. EXISTING SEC SE	REMOVE AND RELOCATE RIGID STEEL CONDUIT SECURITY SQUARE FEET		A-0123	A=PANEL NAME 01=CIRCUIT NUMBER 2=TIMER SWITCH CONTROLING FIXTURE	
MADE SUCH A STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT SHALL BE CONSIDERED VALID, DUE TO CONTRACTOR FAILURE TO ALLOW IN COST ESTIMATE FOR CONDITIONS WHICH MAY EXIST.	F FUSE SHT. SH FA FIRE ALARM, FORCED AIR ST SI	SHEET SINGLE POLE SINGLE THROW		A−01 ⊢——	3=DAYLIGHT SENSOR CONTROLING FIXTURE NEW FLUORESCENT LIGHTING FIXTURE A=PANEL NAME 01=CIRCUIT NUMBER	
15. EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEYS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO STARTING WORK.	FAU FURNACE FBO FURNISHED BY OTHERS FD FIRE DEPARTMENT FDR FFFFFF	SURFACE SWITCH	WALL MOUNTED COMBINATION DATA TELEPHONE OUTLET AT +15" U.O.N WALL MOUNTED TELEPHONE OUTLET AT +15" U.O.N	P		
16. ALL ELECTRICAL WORK SHALL BE PERFORMED PER NEC, UTILIZING THE CODE ISSUED IN FORCE AT THE LOCATION OF THE CONSTRUCTION SITE. ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE CURRENT BASE CODES AND REGULATIONS.	FL FLOOR TD TII FLA FULL LOAD AMPERES TEL TE FOC FLOOR MATERIAL CHANGE TEMP TE	TOTAL CONNECTED LOAD TIME DELAY TELEPHONE TEMPORARY		$\left\langle \frac{P}{1}\right\rangle$	MECHANICAL EQUIPMENT CALL OUT, SEE MECHANICAL DRAWINGS FOR FULL RATING	
17. ALL ELECTRICAL EQUIPMENT UTILIZED AT THIS PROJECT SHALL BE U.L. LABELED OR U.L. LISTED.	FS FUSIBLE SWITCH TV TE	TELEPHONE TERMINAL BOARD TELEVISION TYPICAL S	SINGLE POLE SWITCH. +48" AFF.			
18. INSTALL ALL WIRING IN CONDUITS. 19. ALL ELECTRICAL PANEL BOARD BUSES SHALL BE COPPER.	GA GAUGE UG UN GFI GROUND FAULT CIRCUIT INTERRUPTER III III	UNDERGROUND ELECTRICAL UNDERGROUND S ³ UNDERWRITERS LABORATORIES	UNLESS OTHERWISE NOTED THREE WAY SWITCH. +48" AFF. UNLESS OTHERWISE NOTED			
20. ALL ELECTRICAL DEVICES AND EQUIPMENT MOUNTED ON THE EXTERIOR OF THE BUILDING OR EXPOSED TO WEATHER SHALL BE NEMA 3R WEATHERPROOF TYPE.	GND GROUND UPS UN	UNLESS OTHERWISE NOTED UNINTERRUPTED POWER SUPPLY UNDERGROUND TELEPHONE Sm				<u> </u>
21. CONSTRUCTION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT AREAS AND NOT INTERFERE WITH THEIR WORK. ANY CONSTRUCTION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE. SCHEDULING SHALL BE DONE IN COOPERATION WITH AUTHORIZED ISD'S PROJECT MANAGER, WHO	HD HEAVY DUTY VA VO HID HIGH INTENSITY DISCHARGE VAR VA	VOLT VOLTAMP(S) VARIABLE	NEW WALL SWITCH OCCUPANCY SENSOR. +48" AFF. UNLESS OTHERWISE NOTED. LEVITON OSSMT-MDA OR APPROVE EQUAL.			
WILL BE AVAILABLE BEFORE AND DURING THE PERFORMANCE OF THE WORK. INCLUDE ALL PREMIUM TIME CHARGES IN BID TO COVER THE AFTER—HOURS AND WEEKEND WORK.	HP HORSEPOWER VISCO VA	VERIFY LOCATION VALLEY IRON STEEL CO.	1 = CIRCUIT NUMBER			
22. DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS TO MATCH THE COLOR OF ADJACENT SURFACES IN FINISHED AREAS.	HW HOT WATER HZ HERTZ WH W/ IC INTERCOM W/O WI	WATTS OR WIRE WITH WATER HEATE WITHOUT WEATHERPROOF WEATHERPROOF	DOUBLE DUPLEX RECEPTACLE. +26"AFF., U.O.N 1 = CIRCUIT NUMBER GFI DUPLEX RECEPTACLE. WEATHERPROOF, GROUND FAULT CIRCUIT INTERRUPTER. +15" AFF UON.			JOB DES DRA
	IMC INTERMEDIATE METALLIC CONDUIT INC INCANDESCENT X EX	EXISTING TO BE REMOVED TRANSFORMER	1 = CIRCUIT NUMBER			DATI SCA
	KVA KILOVOLT AMPERES TO	HEIGHT FROM FINISHED FLOOR TO CENTER LINE OF DEVICE	1 = CIRCUIT NUMBER 1 250V RECEPTACLE. +26"AFF., U.O.N 1 = CIRCUIT NUMBER			SHE
		SINGLE OR DOUBLE POLE PHASE PROVIDE FURNISH & INSTALL	1 = CIRCUII NUMBER			<u> _</u>
			SMITCHED DOFILA NECEFIACE			0,

SPECIAL RECEPTACLE. SIZE AS NOTED.

#E97SS2). NOTE REFERENCE CALL OUT

------ HEAVY THICK LINE INDICATES NEW WORK

——— DASHED LINE INDICATES DEMOLITION

LIGHT LINE WEIGHT INDICATES EXISTING TO REMAIN

DUPLEX-RECEPTACLE IN NON-METALLIC BOX WITH STAINLESS STEEL COVER IN CONCRETE (MANUFACTURE: CARLON, ROUND FLOOR BOX MODEL #E971FB, TWO-DOOR COVER MODEL



A CA	3/28/2025	3 26	REVISED DRAWINGS - ADDENDUM No. 3
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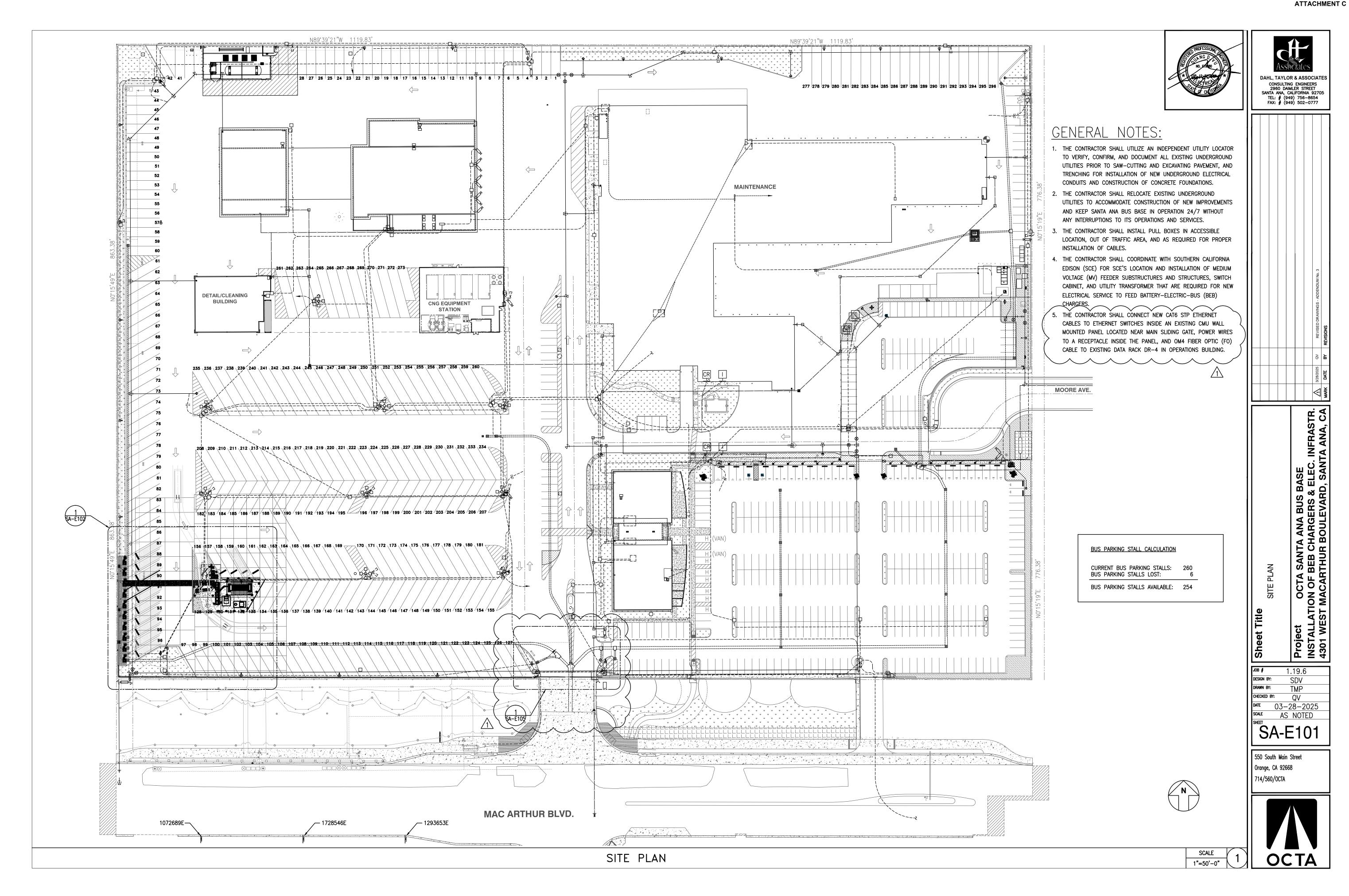
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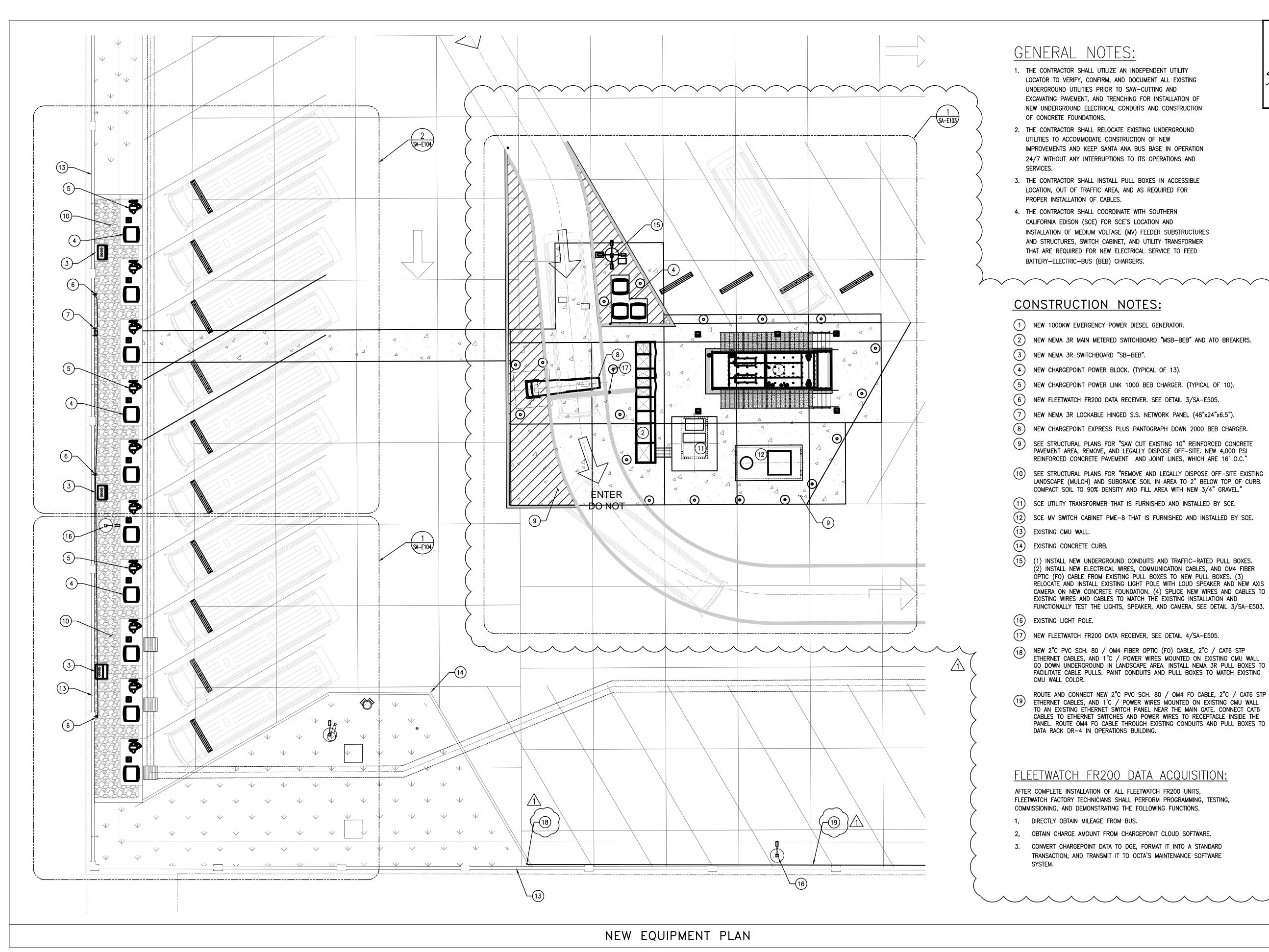
Sheet Title		Project	INSTALLATION			
JOB #	1.	.19.6	3			
DESIGN BY:	SDV					
DRAWN BY:	TMP					
CHECKED BY:		QV				
DATE (03-2	28 - 2	2025			
SCALE	AS	NOT	ED			

SA-E001

550 South Main Street Orange, CA 92668 714/560/OCTA











		TA SANTA ANA BUS BASE	F RFR CHARGERS & FI FC INFRASTR	A 3/28/2025 QV
				REVISED DRAWINGS - ADDENDUM No. 3

JOB # 1.19.6

DESIGN BY: SDV

DRAWN BY: TMP

CHECKED BY: QV

DATE 03-28-2025

SCALE AS NOTED

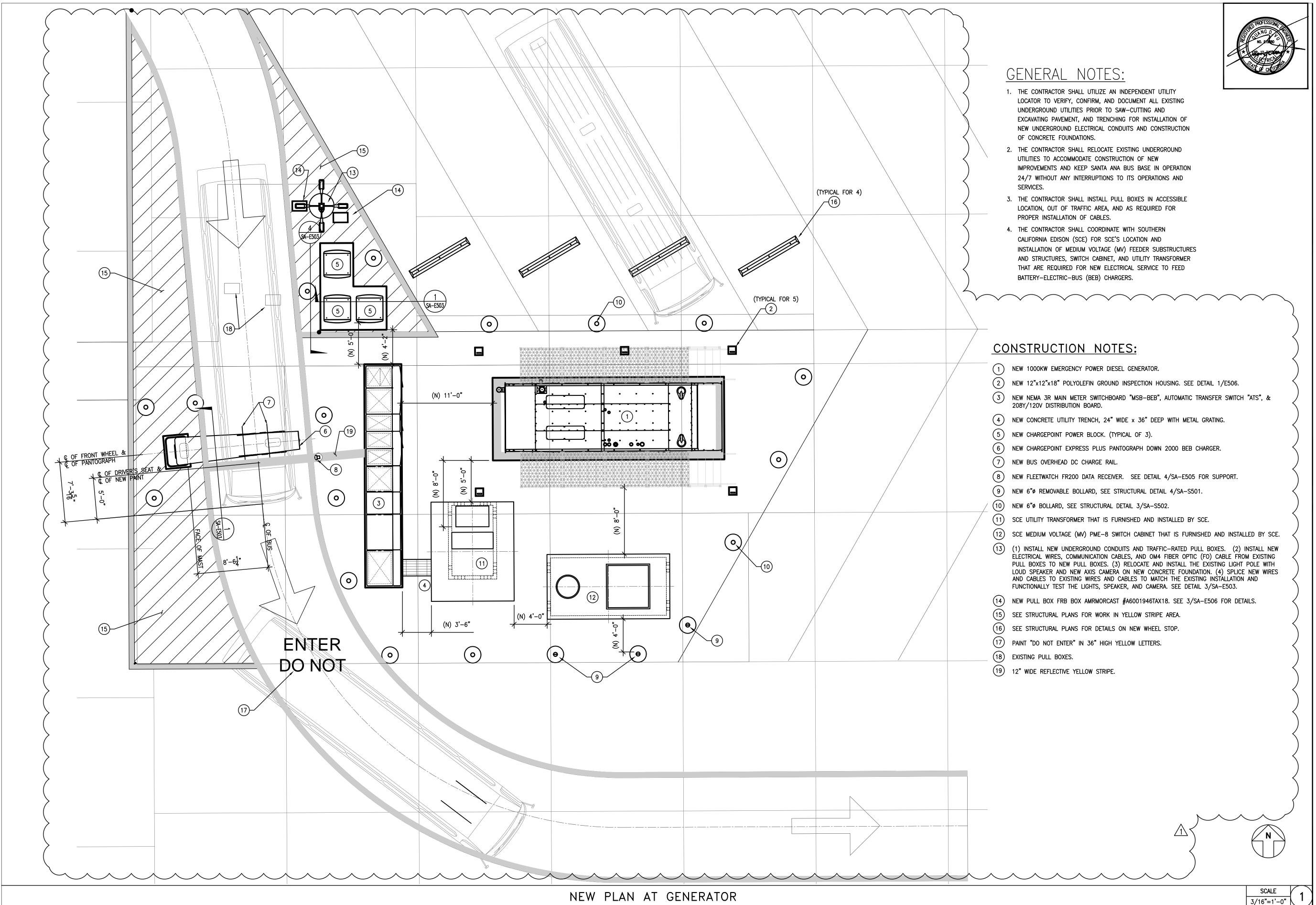
SHEET

SA-E102

550 South Main Street Orange, CA 92668 714/560/OCTA



1"=10'-0"





1.19.6

DESIGN BY: SDV

DRAWN BY: TMP

CHECKED BY: QV

DATE 03-28-2025

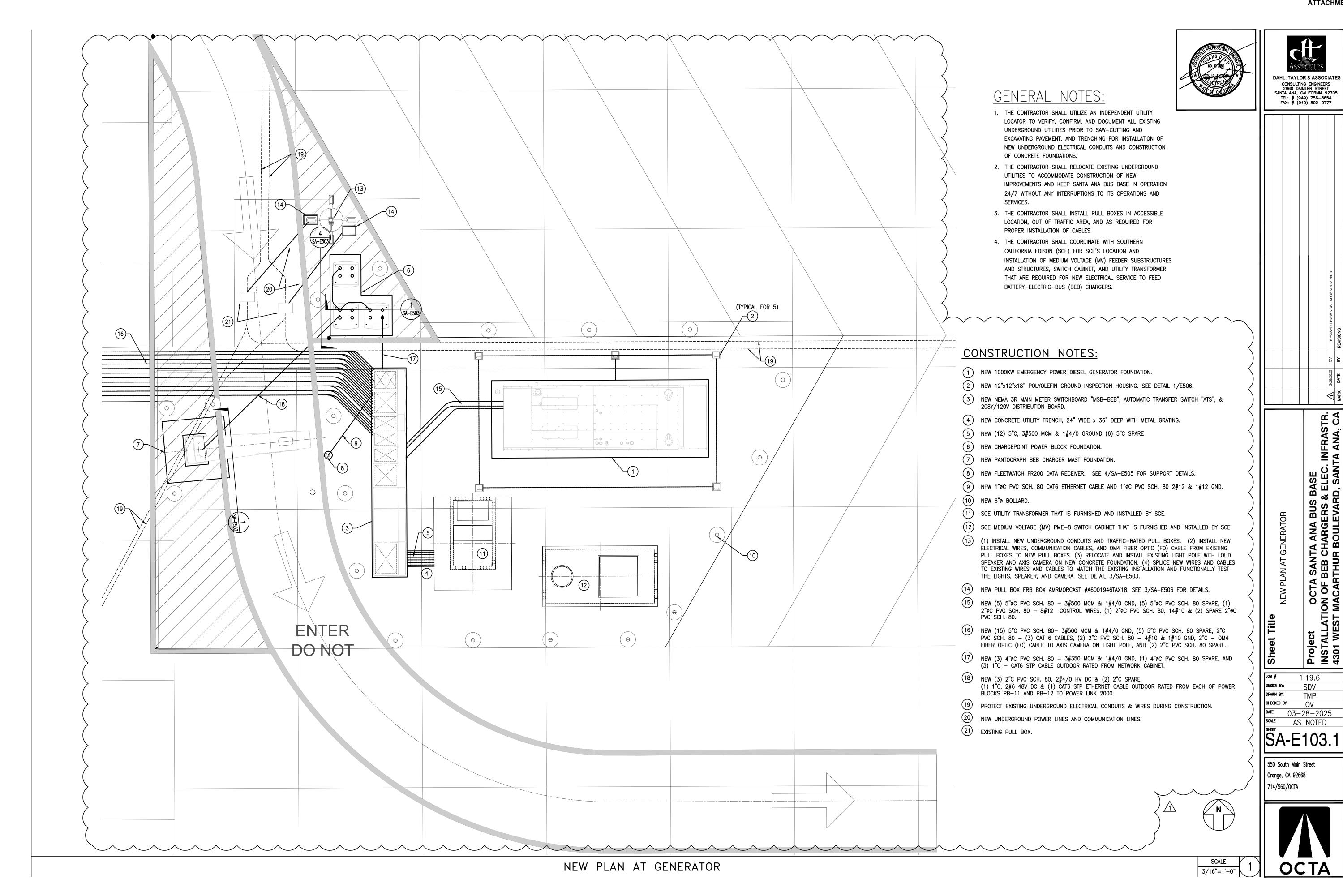
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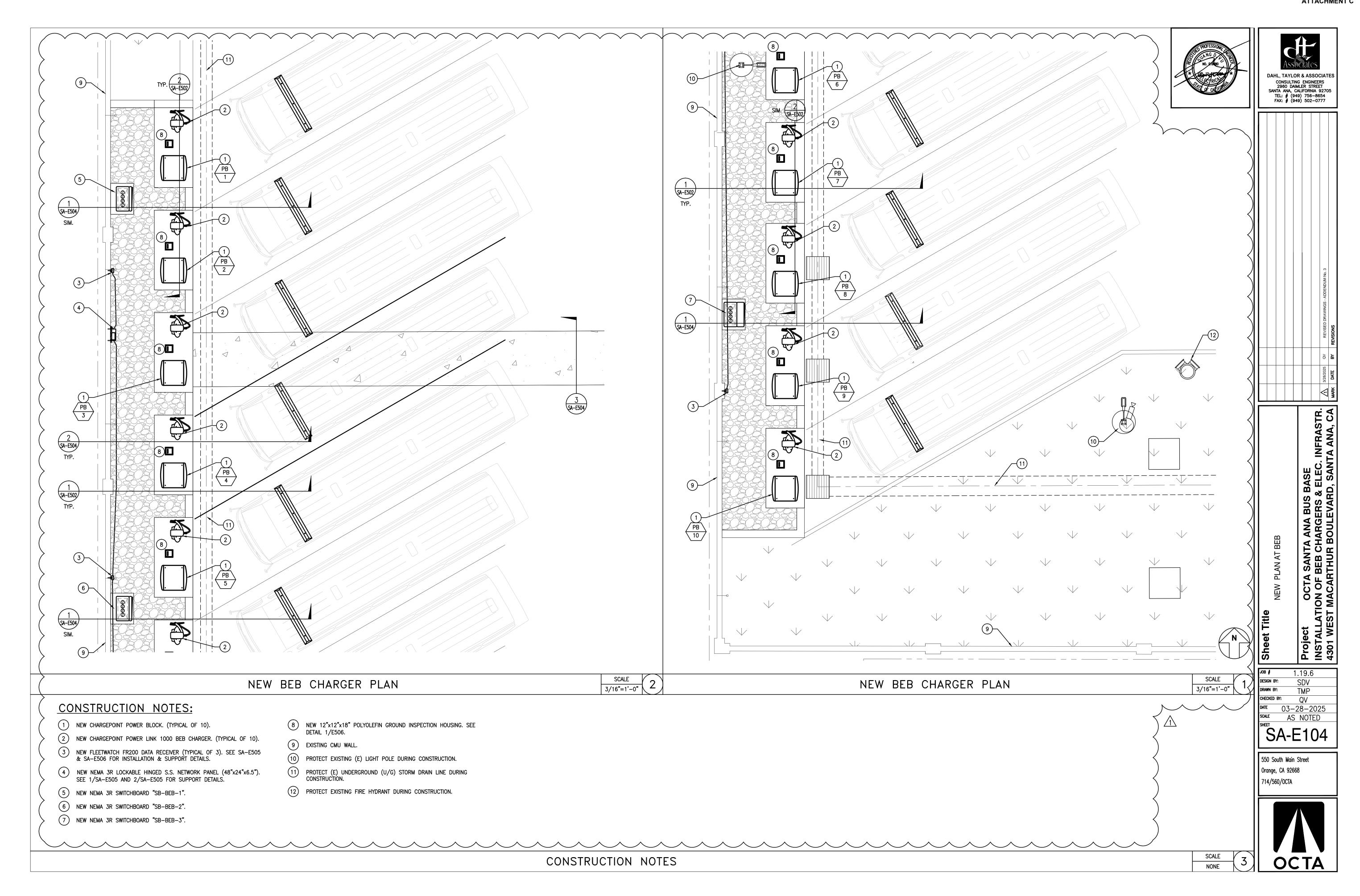
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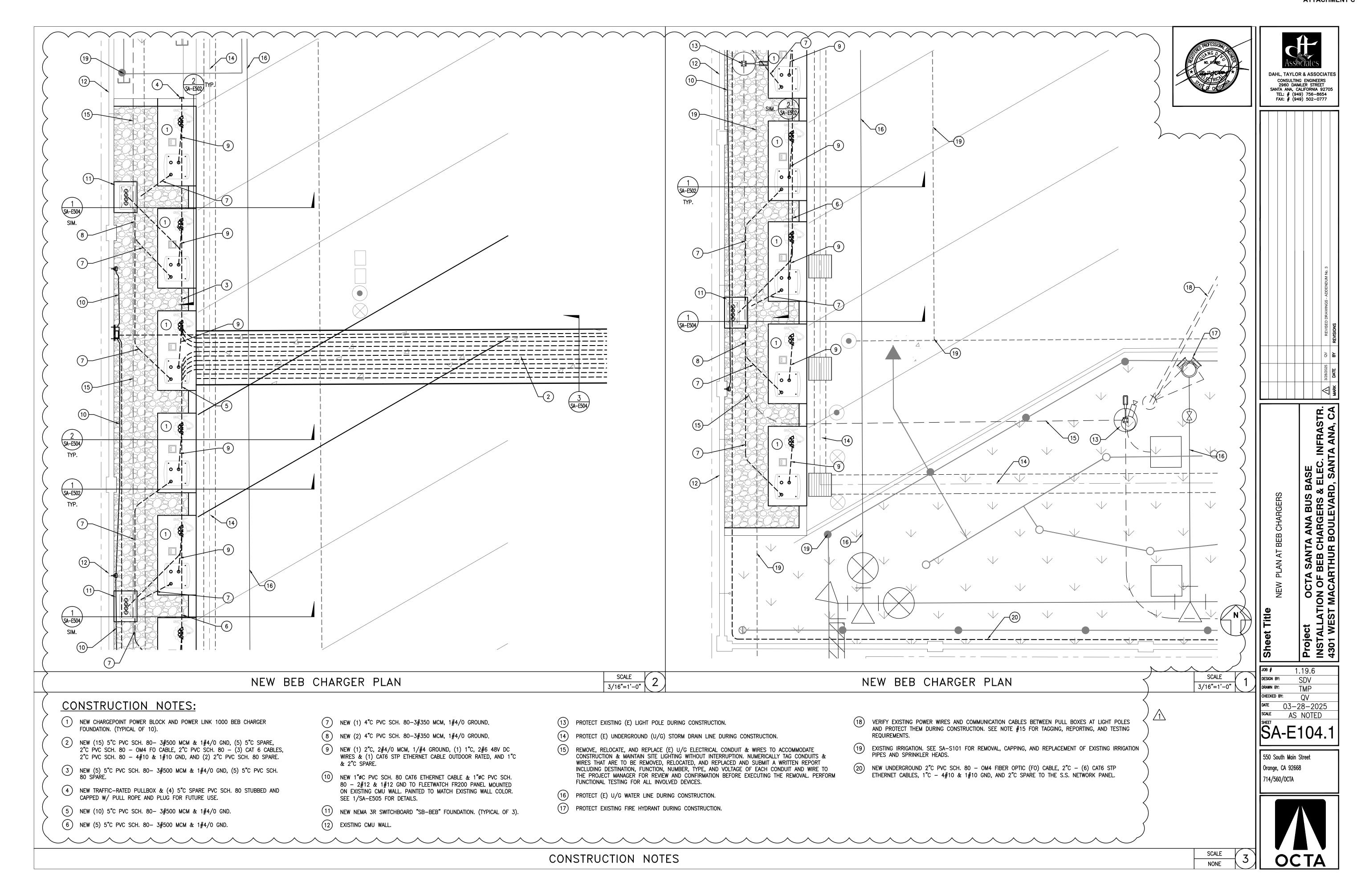
SA-E103

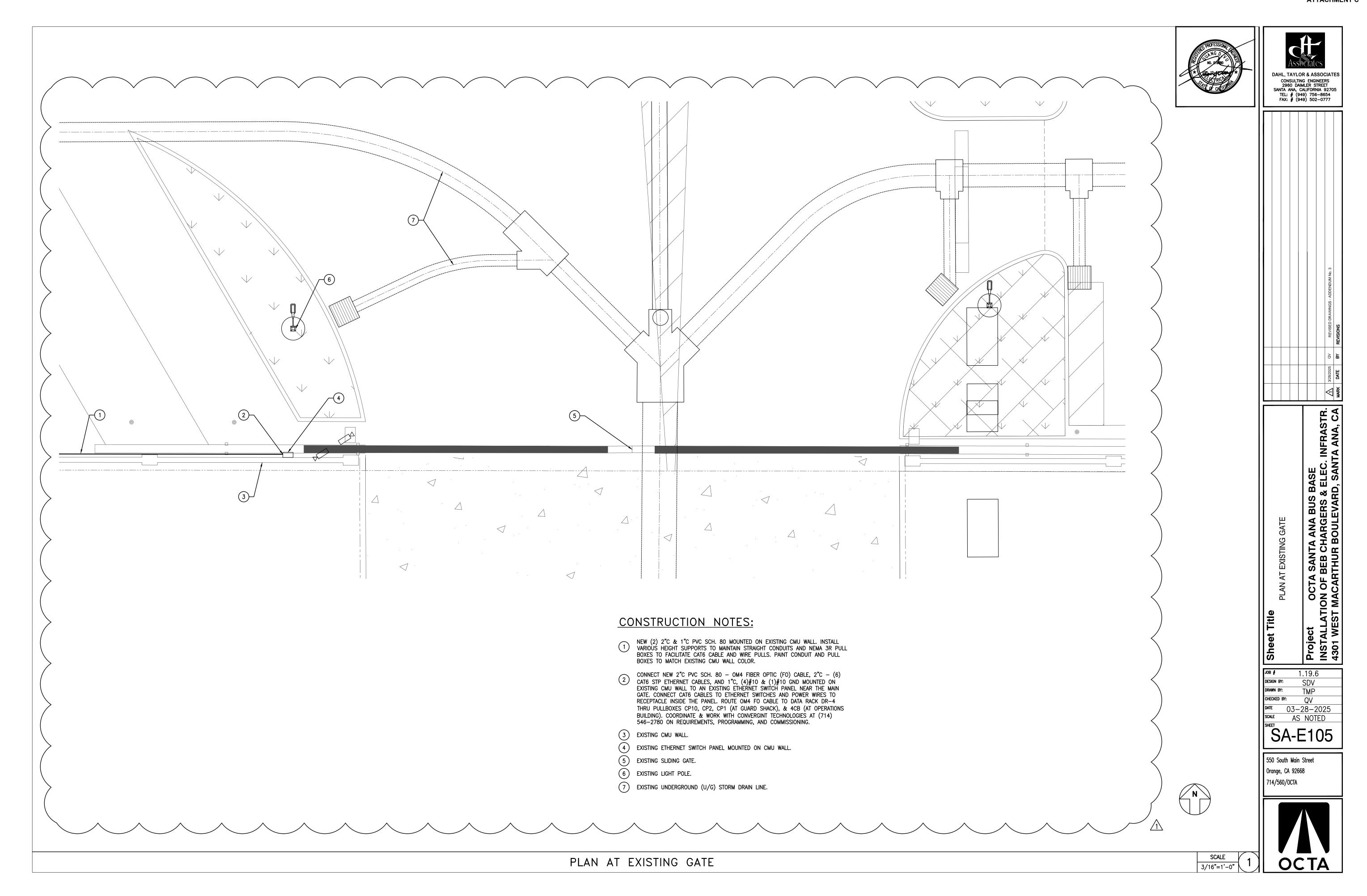
550 South Main Street Orange, CA 92668 714/560/OCTA

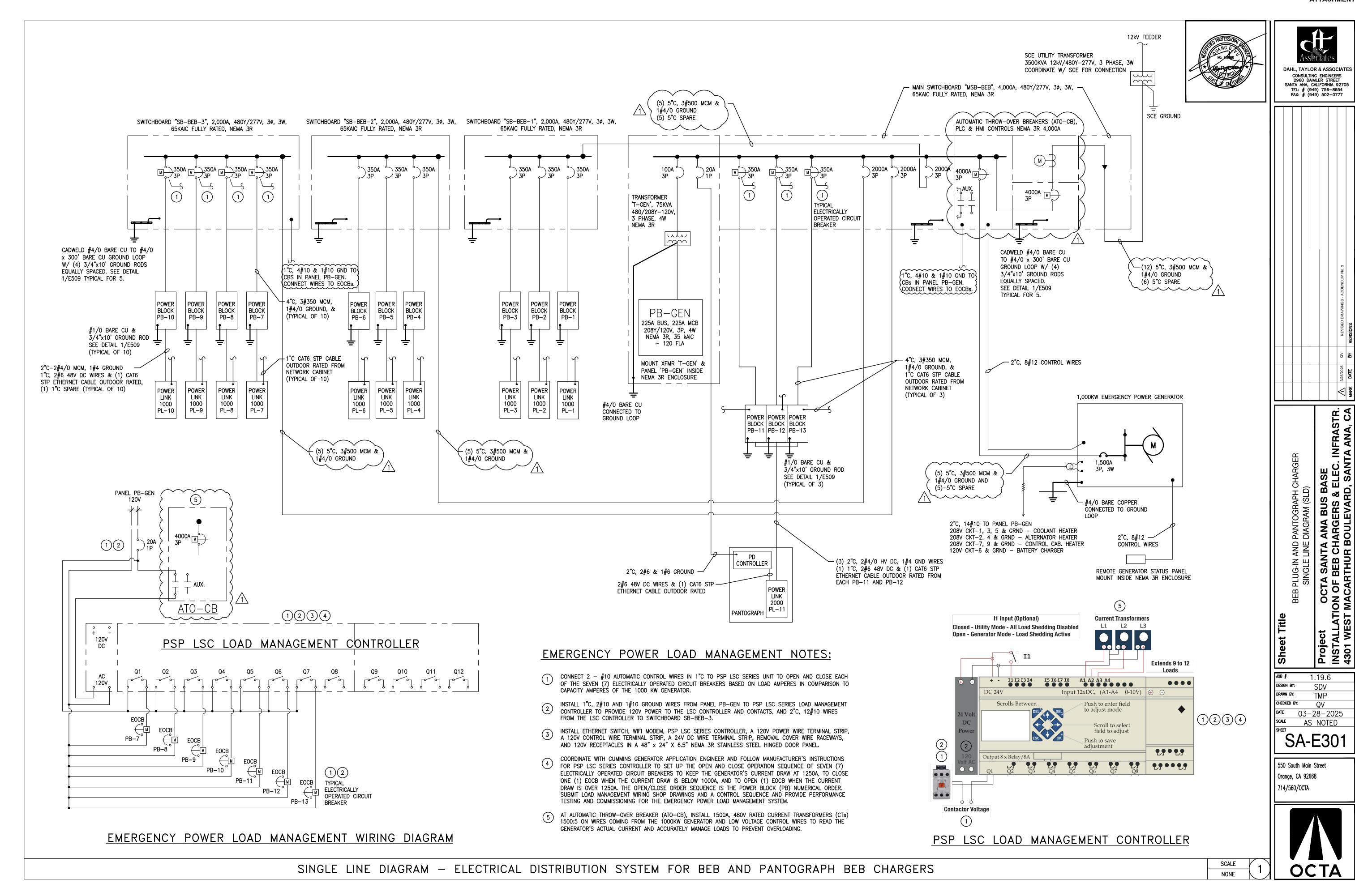












DAHL, TAYLOR & ASSOCIATES

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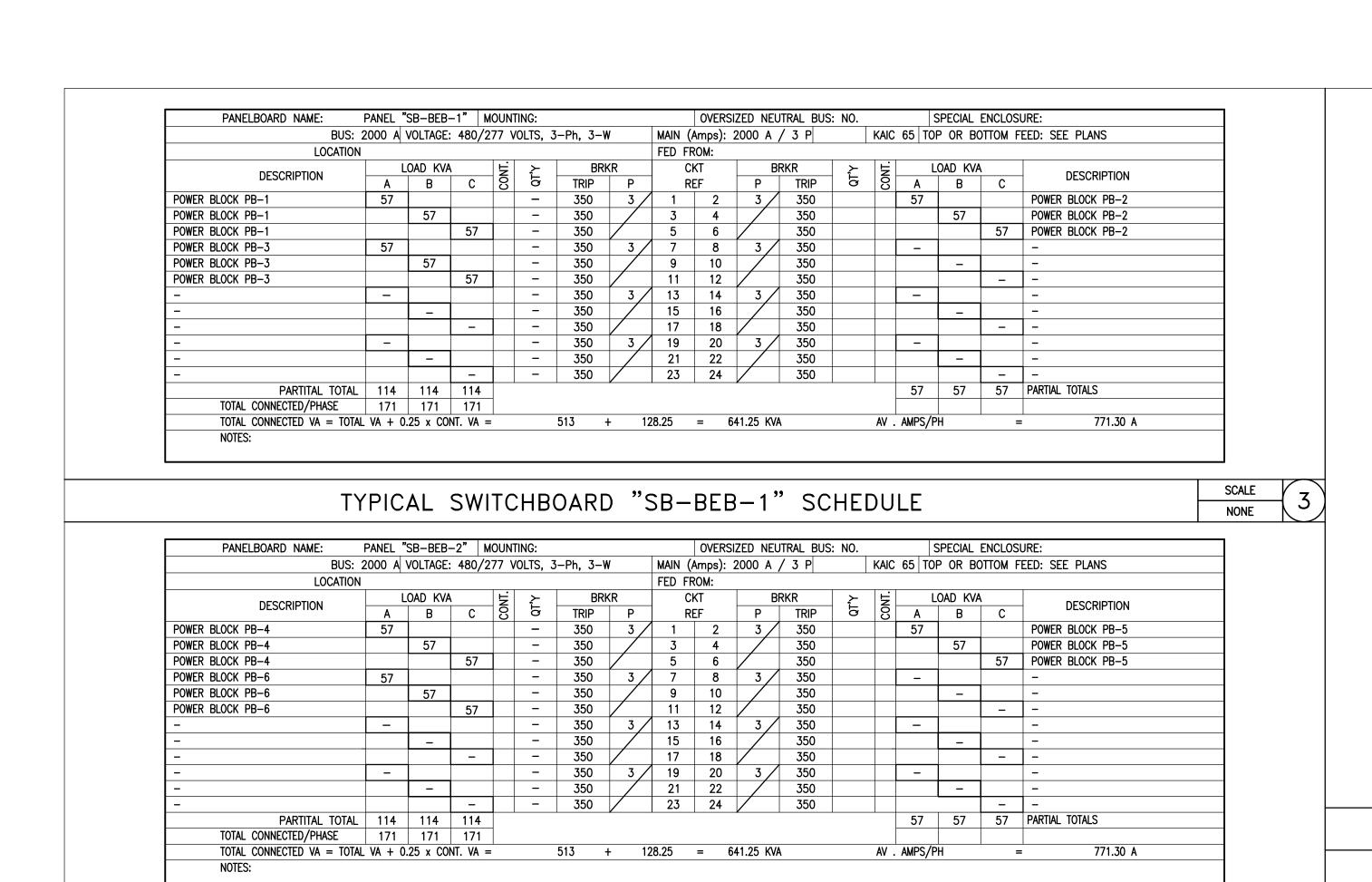
SCALE

NONE

& PANEL

t **Title**BATTERY-ELECTRIC-BUS (BEB) C

ANA IARGE 30ULE



SCALE TYPICAL SWITCHBOARD "SB-BEB-2" SCHEDULE NONE PANELBOARD NAME: PANEL "SB-BEB-3" MOUNTING: OVERSIZED NEUTRAL BUS: NO. SPECIAL ENCLOSURE: BUS: 2000 A VOLTAGE: 480/277 VOLTS, 3-Ph, 3-W MAIN (Amps): 2000 A / 3 P KAIC 65 TOP OR BOTTOM FEED: SEE PLANS LOCATION FED FROM: DESCRIPTION DESCRIPTION REF
 350
 3
 1
 2
 3
 350
 POWER BLOCK PB-7 POWER BLOCK PB-8 - 350 POWER BLOCK PB-7 350 POWER BLOCK PB-8 3 4 / 57 POWER BLOCK PB-8 POWER BLOCK PB-7 350 / 350 3 7 8 3 350 9 10 350 350 POWER BLOCK PB-9 POWER BLOCK PB-10 POWER BLOCK PB-10 POWER BLOCK PB-9
 350
 11
 12
 350

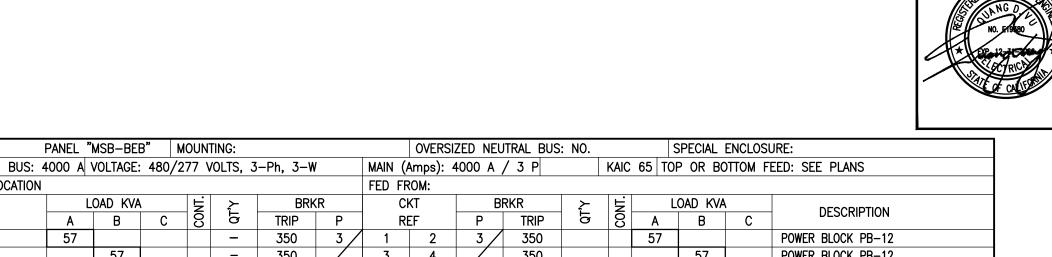
 350
 3
 13
 14
 3
 350
 POWER BLOCK PB-9 57 POWER BLOCK PB-10 - 350 15 16 17 18 - 350
 350
 17
 18
 350

 350
 3
 19
 20
 3
 350

 350
 21
 22
 350

 23
 24
 350
 350 114 114 114 PARTIAL TOTALS PARTITAL TOTAL | 114 | 114 | 114 | TOTAL CONNECTED/PHASE 228 228 228 TOTAL CONNECTED VA = TOTAL VA + 0.25 x CONT. VA = 684 + 171 = 855 KVA 1028.40 A AV . AMPS/PH

TYPICAL SWITCHBOARD "SB-BEB-3" SCHEDULE



PANELBOARD NAME:	DANEL "	MCD DE	D" M	OLINI	INC.				OVEDCI	ZED NEU	TDAL DUC	. NO			DECIAL	ENOLOGI	LIDE.
PANELBOARD NAME: PANEL "MSB-BEB" MOUNTING: OVERSIZED NEUTRAL BUS: NO. SPECIAL ENCLOSURE: BUS: 4000 A VOLTAGE: 480/277 VOLTS, 3-Ph, 3-W MAIN (Amps): 4000 A / 3 P KAIC 65 TOP OR BOTTOM FEED: SEE PLANS																	
		VULTAGE:	480/2	// V	UL15, 3	-Pn, 3-1	<u>v</u>			+000 A /	7 3 P		KAIC	65 101	OR BO	IIOM F	EED: SEE PLANS
LOCATION FED FROM:								T									
DESCRIPTION		OAD KVA		CONT.	QT'Y	BRI		CI			BRKR		CONT.	LOAD KVA			DESCRIPTION
DOWED DIOOK DD 44	A	В	С	၂႘		TRIP	P	RE		P	TRIP	QT'Y	ပ	A	В	С	
POWER BLOCK PB-11	57				-	350	3/	1 -	2	3/	350			57			POWER BLOCK PB-12
POWER BLOCK PB-11		57			_	350		3	4		350				57		POWER BLOCK PB-12
POWER BLOCK PB-11			57		_	350	<u>/</u>	5	6	/	350					57	POWER BLOCK PB-12
POWER BLOCK PB-13	57				_	350	3/	7	8	3/	2000			171			SWITCHBOARD SB-BEB-1
POWER BLOCK PB-13		57			_	350		9	10		2000				171		SWITCHBOARD SB-BEB-1
POWER BLOCK PB-13			57		_	350		11	12		2000					171	SWITCHBOARD SB-BEB-1
SWITCHBOARD SB-BEB-3	228				_	2000	3/	13	14	3/	2000			171			SWITCHBOARD SB-BEB-2
SWITCHBOARD SB-BEB-3		228			-	2000		15	16		2000				171		SWITCHBOARD SB-BEB-2
SWITCHBOARD SB-BEB-3			228		-	2000		17	18		2000					171	SWITCHBOARD SB-BEB-2
XFMR "T-GEN"	14.41				_	100	3/	19	20	3/				-			_
XFMR "T-GEN"		14.41			_	100		21	22						-		_
XFMR "T-GEN"			14.41		-	100		23	24		_					1	_
-	-				-	ı	3 /	25	26	3 /	_			-			_
-		_			-	-		27	28		-				_		_
-			_		-	1		29	30		-					_	_
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-			_		_	-		35	36		_	_				-	-
PANTOGRAPH PD CONTROLLER	0.55				_	20	1	37	38	3 /	_	_		-			-
-		_			-	1		39	40		_	_			_		-
-			_		-	1		41	42		_	_				_	-
PARTITAL TOTAL	356.96	356.41	356.41		-			•		-		•		399	399	399	PARTIAL TOTALS
TOTAL CONNECTED/PHASE	755.96	755.41	755.41	1									Ī				
TOTAL CONNECTED VA = TOTAL VA + 0.25 x CONT. VA = 2,266.78 + 566.70 = 2,833.48 KVA AV . AMPS/PH = 3,408.15 A																	
NOTES:															-		

SWITCHBOARD "MSB-BEB" SCHEDULE

PANEL "PB-GEN" | MOUNTING: OVERSIZED NEUTRAL BUS: NO. | SPECIAL ENCLOSURE: KAIC 35 TOP OR BOTTOM FEED: SEE PLANS BUS: 225 A VOLTAGE: 120/208 VOLTS, 3-Ph, 4-W MAIN (Amps): 225 / 3 P FED FROM: XFMR "T-BEB" LOCATION CKT DESCRIPTION DESCRIPTION REF P TRIP 1000 KW GENERATOR COOLANT HEATER | 1400 600 1000 KW GENERATOR BATTERY CHARGER 1000 KW GENERATOR COOLANT HEATER 1000 KW GENERATOR BATTERY CHARGER - 30 1 3 4 1 20 1000 KW GENERATOR ALTERNATOR HEATER 360 GENERATOR CONTROL PANEL 1000 KW GENERATOR ALTERNATOR HEATER 200 GFIC RECEPTACLE 60 FLEETWATCH DATA RECEIVER FR200-GR UNIT RECEPTACLE-WP CONTROL PANEL 60 FLEETWATCH DATA RECEIVER FR200-GR UNIT RECEPTACLE-WP CONTROL PANEL CONTROL POWER-ELEC. OPERATED CBs FLEETWATCH DATA RECEIVER FR200-GR UNIT CONTROL POWER-ELEC. OPERATED CBs 20 1 15 16 1 20 POWER FOR PSP LSC CONTROLLER POWER TO ATO-CB FOR CONTROLS _ 1 17 18 <u>_</u> _ 380 POWER TO SB-BEB-3 FOR CONTROLS - - - 19 20 - -- - - 21 22 - -- - - 23 24 - -| - | - | 1020 | 1040 | 800 | PARTIAL TOTALS PARTITAL TOTAL 1980 1960 660 TOTAL CONNECTED/PHASE 3000 3000 1460 TOTAL CONNECTED VA = TOTAL VA + 0.25 x CONT. VA = 7,460 + 1,100 = 8,560 VA 23.6 A

PANEL "PB-GEN" SCHEDULE

SCALE
NONE

					OWNE	R-FURNIS	HED BA	TTERY E	ELECTRIC BUS	(BEB)	CHARGER SCHEE	DULE	
SYMBOL	QUANTITY	MAKE	MODEL	PORT	INPUT CAPACITY KVA	ELECTRICAL VOLT/P/AMP	OUTPUT VOLT/AMP DC	REQUIRED CIRCUIT BREAKER AMPS	DC CONNECTION	CABLE LENGTH	LCD DISPLAY	-	INSTALLATION REMARKS FOR THE CONTRACTOR
PB 1-10 PL 1-10	10	CHARGEPOINT	POWER BLOCK POWER LINK 1000	SINGLE	160	480 / 3 / 260	100-1000V/350A	350	NACS (J3400), CCS1 (SAE J1772 COMBO), CCS2 (IEC 61851-23), CHAdeMO	19'	FULL COLOR 203 mm (8 in) INTERACTIVE DISPLAY WITH FULL MOTION VIDEO, UV PROTECTION, GESTURE TOUCH CONTROLS, AND MULTI-LANGUAGE SUPPORT	-	INSTALL CONDUITS AND CABLES FOR AC UTILITY POWER, DC POWER, ETHERNET CAT6, INTERLOCK CONTROLS, AND GROUNDING FOR COMPLETE INSTALLATION REQUIRED BY CHARGEPOINT MANUFACTURER.
PB 11-13 PL 11	3 PB 1 PL 2000	CHARGEPOINT	POWER BLOCK POWER LINK 2000	PANTOGRAPH	160	480 / 3/ 260	100-1000V/350A	350	-	-	_	-	INSTALL CONDUITS AND CABLES FOR AC UTILITY POWER, DC POWER, ETHERNET CAT6, INTERLOCK CONTROLS, AND GROUNDING FOR COMPLETE INSTALLATION REQUIRED BY CHARGEPOINT MANUFACTURER.

(5⁾

PB 1

PB-1 TO 10 = POWER BLOCK COUPLED WITH POWER LINK 1000 (PL). PB-11 TO 13 = PANTOGRAPH POWER BLOCKS COUPLED WITH POWER LINK 2000. INSTALL CONDUITS AND OUTDOOR RATED CABLES FOR AC UTILITY POWER, DC POWER, CAT6 ETHERNET, INTERLOCK CONTROLS, AND GROUNDING FOR COMPLETE INSTALLATION, STARTUP TESTING, AND COMMISSIONING REQUIRED BY CHARGEPOINT MANUFACTURER. FOLLOW CHARGEPOINT GUIDES FOR DATA, SITE DESIGN, AND INSTALLATION.

SCALE NONE

OCTA

1.19.6 SDV

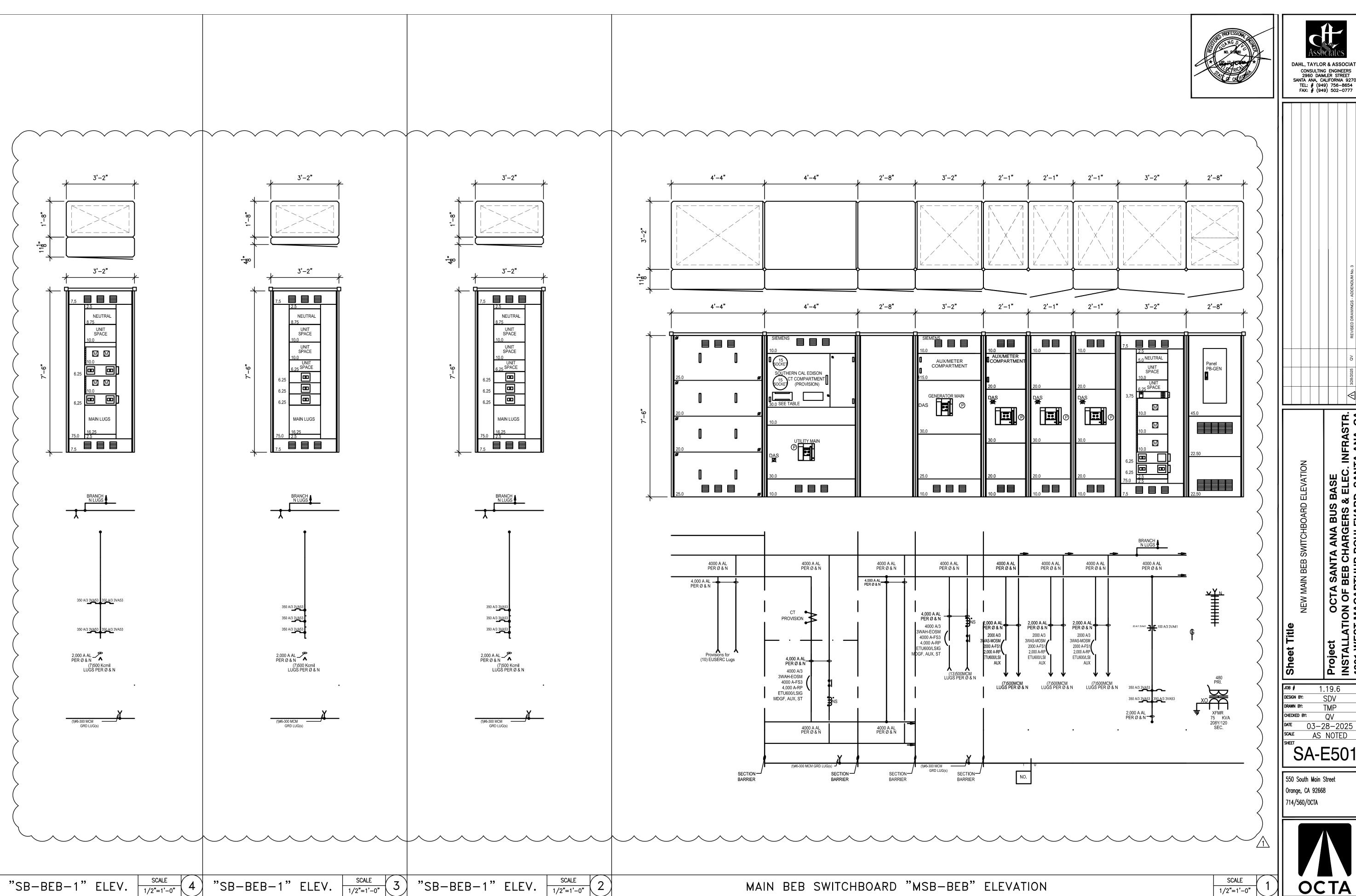
03-28-2025 AS NOTED

SA-E401

CHECKED BY: QV

550 South Main Street

Orange, CA 92668 714/560/OCTA



ATTACHMENT C

DAHL, TAYLOR & ASSOCIATES

CONSULTING ENGINEERS
2960 DAIMLER STREET
SANTA ANA, CALIFORNIA 92705
TEL: # (949) 756-8654
FAX: # (949) 502-0777

BUS BASE ERS & ELEC. INFRASTR. EVARD, SANTA ANA, CA

Project OCTA SANTA ANA EINSTALLATION OF BEB CHARGE 4301 WEST MACARTHUR BOULE

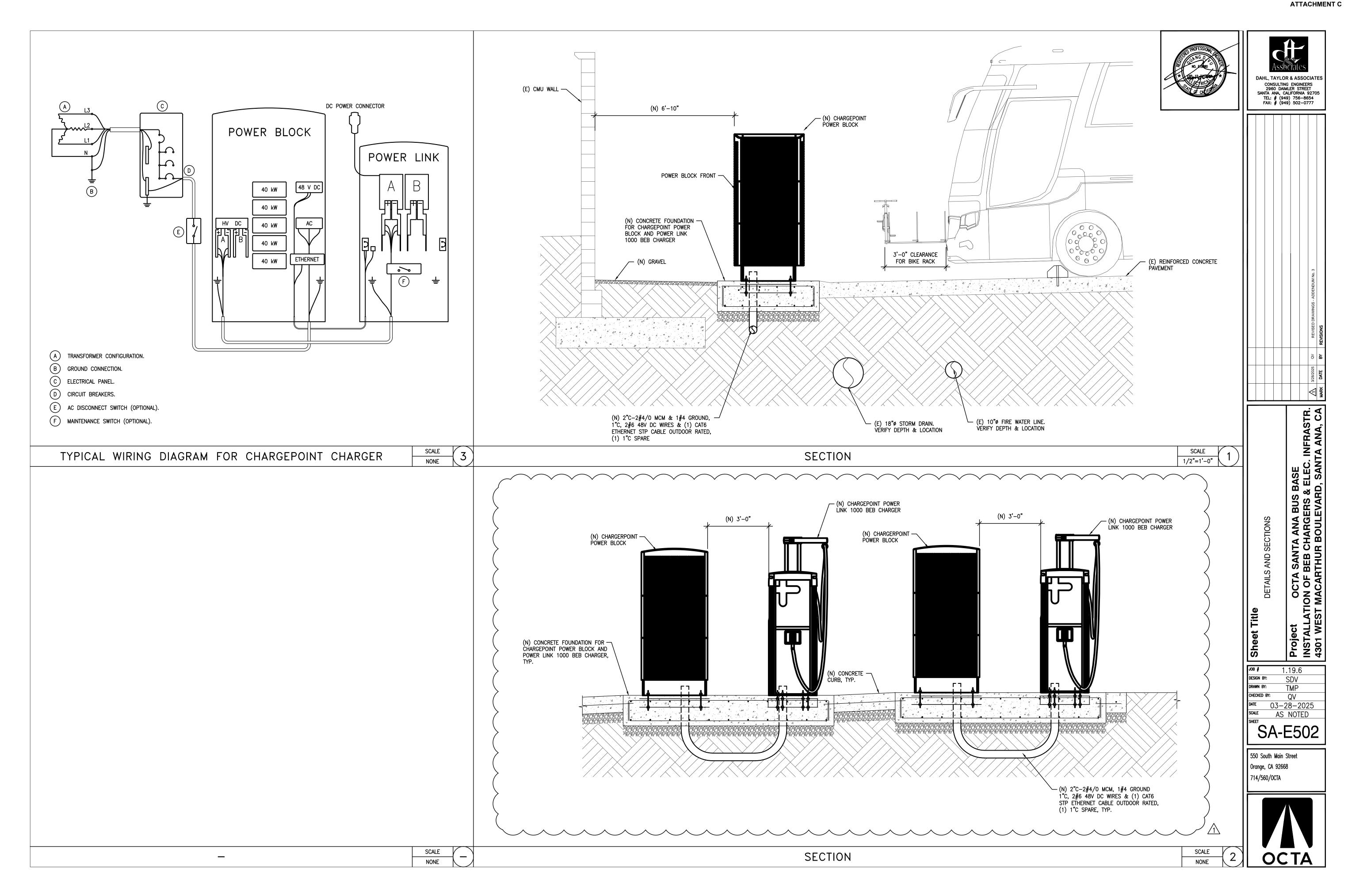
1.19.6

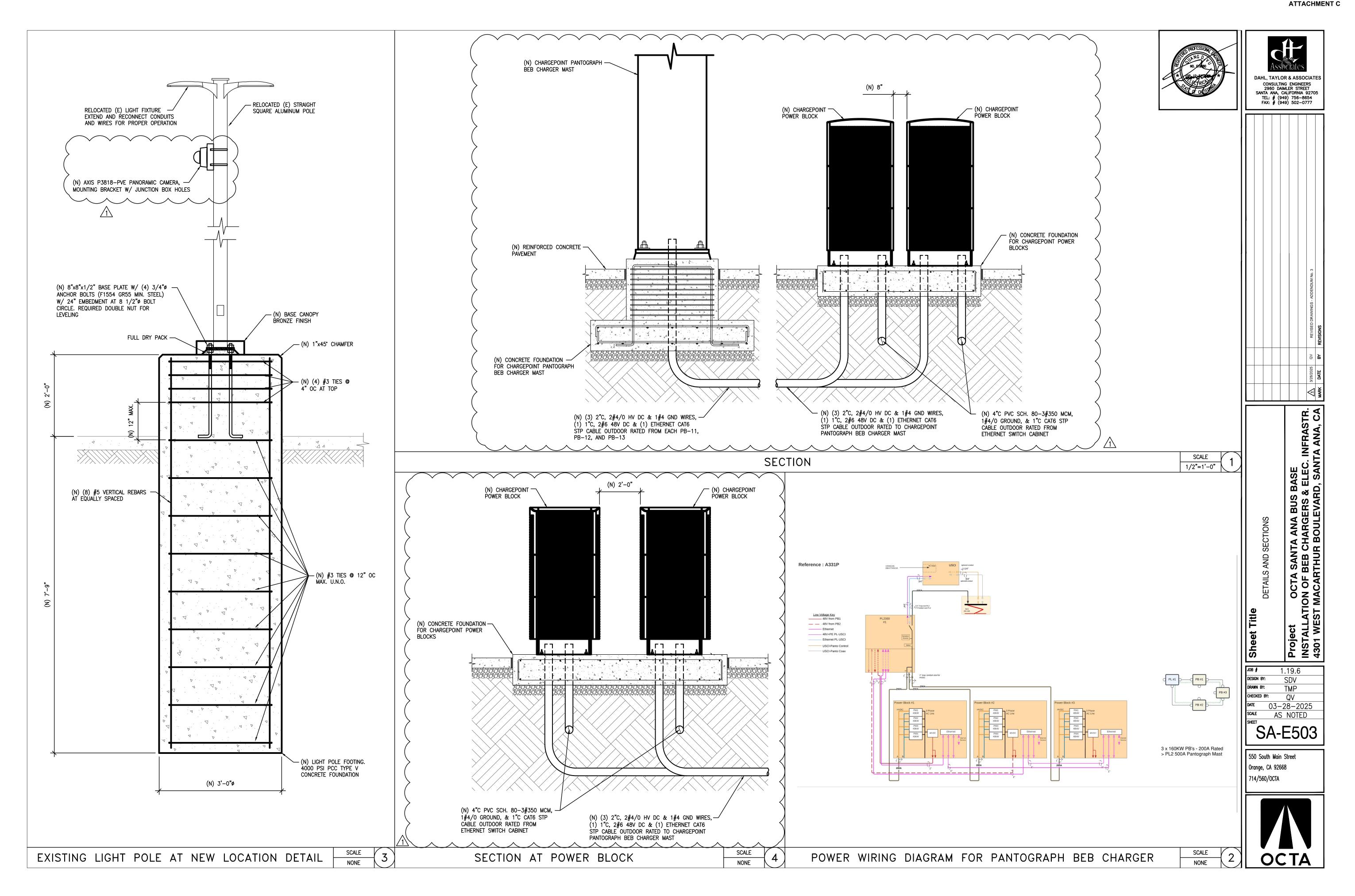
SDV Y: TMP BY: QV 03-28-2025 AS NOTED

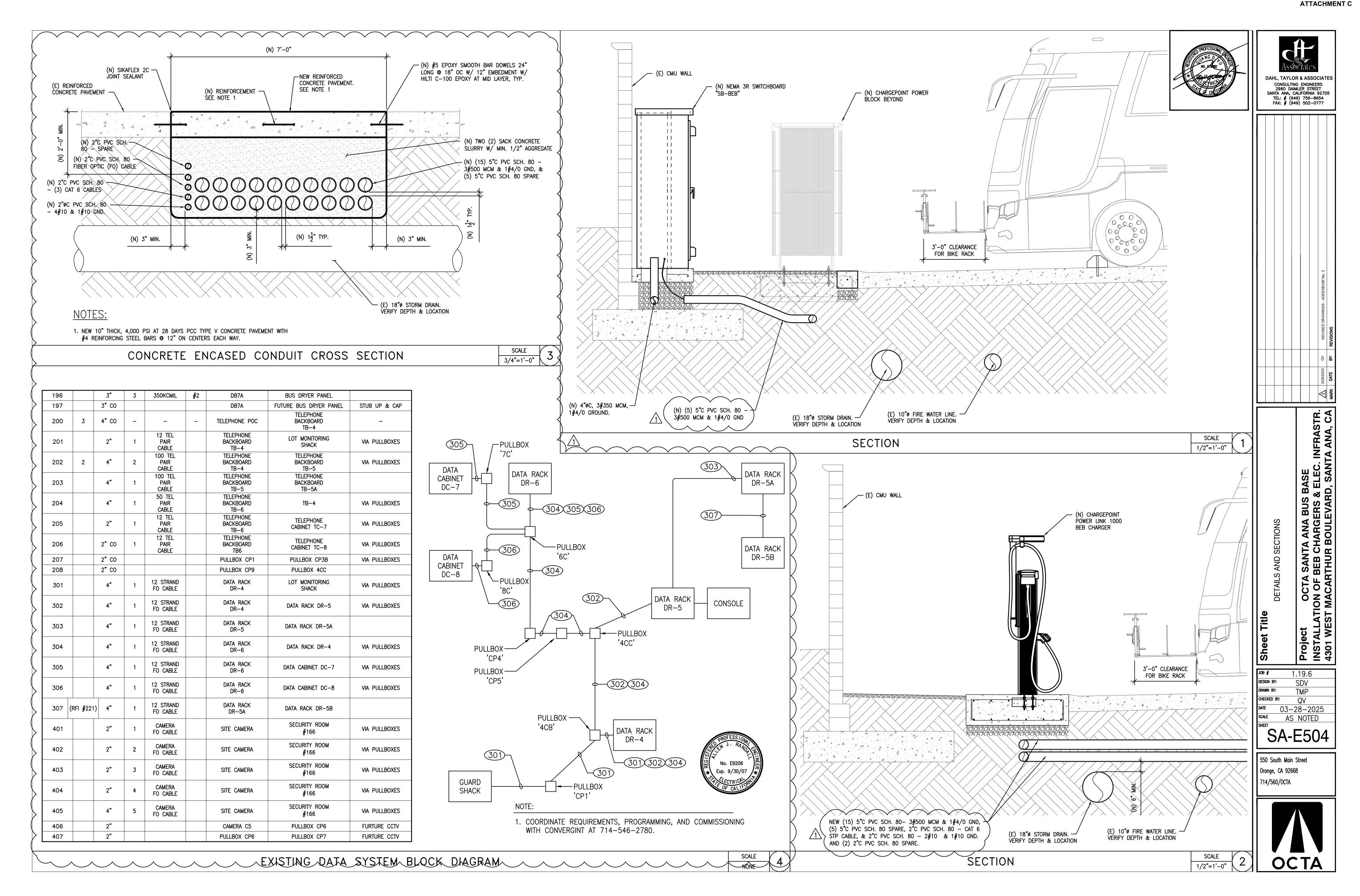
DARD ELEVATION

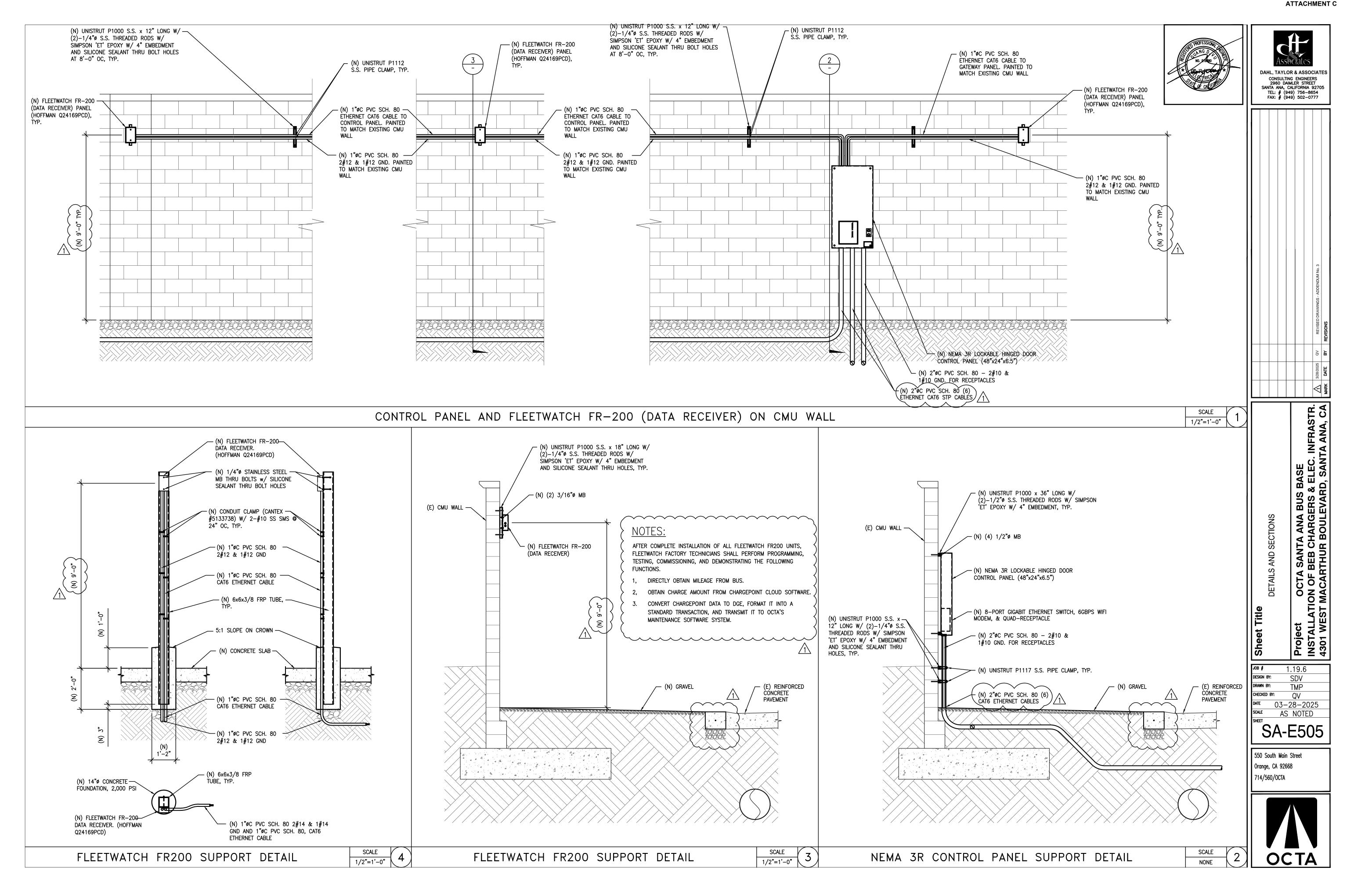
NEW MAIN BEB SWITCHB

OCTA

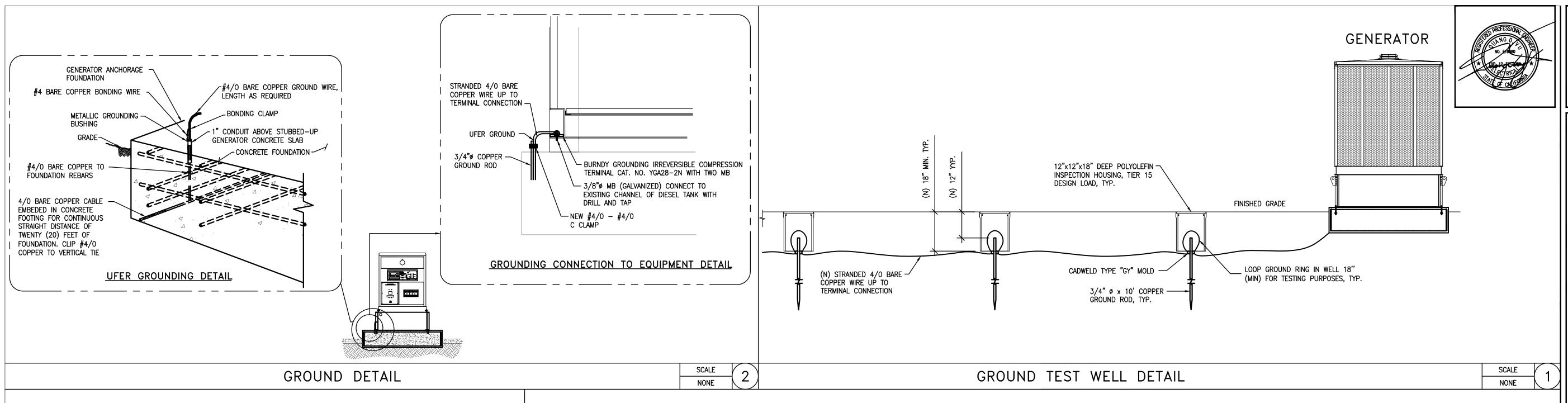




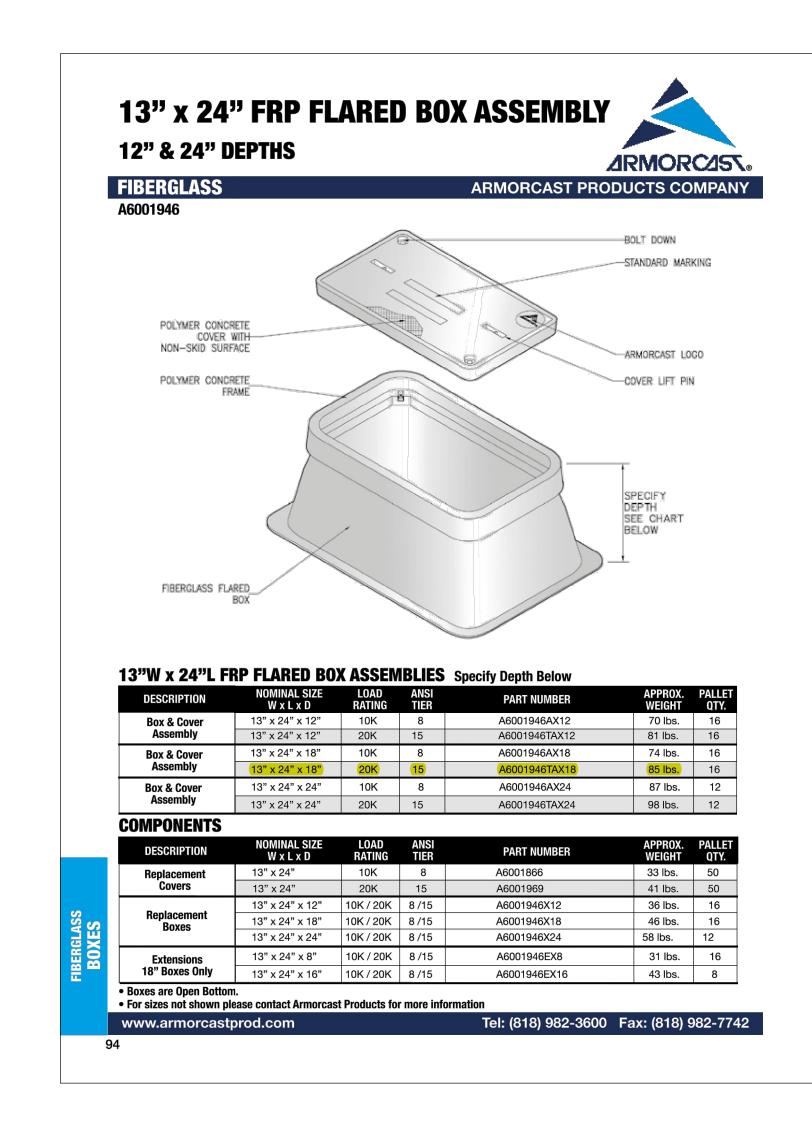


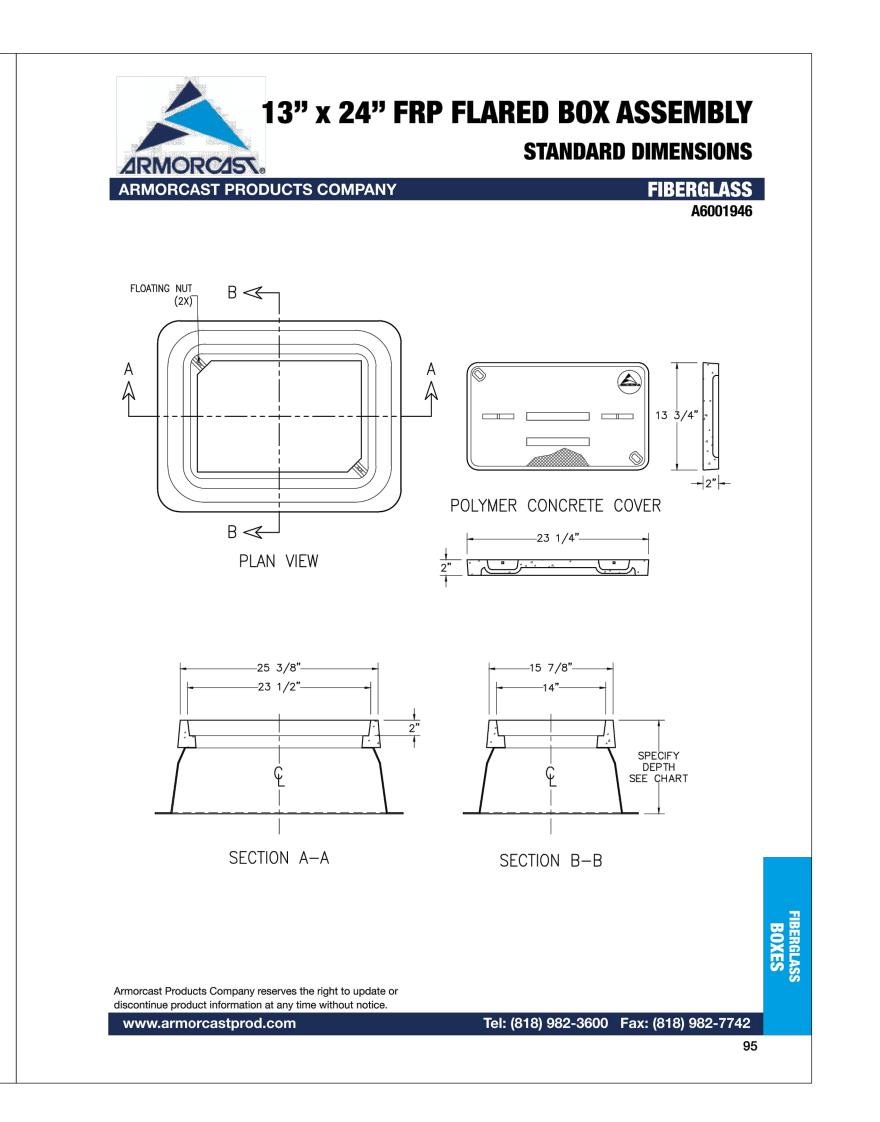


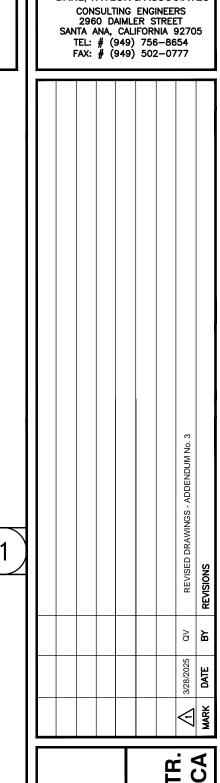
DAHL, TAYLOR & ASSOCIATES











DETAILS AND SECTIONS	OCTA SANTA ANA BUS BASE	INSTALLATION OF BEB CHARGERS & ELEC. INFRASTR.	4301 WEST MACARTHUR BOULEVARD, SANTA ANA. CA
	Project	INSTALL	4301 WES

OB # 1.19.6
DESIGN BY: SDV
DRAWN BY: TMP
CHECKED BY: QV
DATE 03-28-2025
DRALE AS NOTED
CHEET

SA-E506

550 South Main Street

Orange, CA 92668 714/560/OCTA



						A1	TACHMEI
LATERAL LOAD DESIGN CF	RITERIA	GENERAL NOTES	REINFORCING STEEL	LEGEND	FROF ESSIONAL CREATER AND CONTROL OF THE PROPERTY OF THE PROPE		
BUILDING CODES: 2022 CBC AND ASCE 7-16 WIND LOAD P=qGCp-qi(GCpi) for Enclosed & Partially Enclosed Building	Per Equation 27.3—1	THE CONTRACTOR SHALL: a) THOROUGHLY REVIEW ALL CONTRACT DOCUMENTS, AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE PRIOR TO START OF CONSTRUCTION.	1. ALL REINFORCING STEEL SHALL COMPLY WITH 2016 CBC AND SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A-615 GRADE, OR ASTM A-706 FOR THOSE TO BE WELDED, AS FOLLOWS: a) STIRRUPS & TIESGRADE 60 b) ALL OTHERSGRADE 60		NO. C58590 ** ** ** ** ** ** ** ** **	ASSOC DAHL, TAYLOR CONSULTING 2960 DAIML	FNGINFERS
Where: Wind Speed Vfm=78 Mile per hour (fast wind speed) Basic Wind Speed V3s=92 Mile per hour (3 sec gust wind speed)	·	b) IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER OF ANY OMISSION OR DISCREPANCY BETWEEN VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS FOR DIRECTION BEFORE PROCEEDING WITH THE WORK.	c) ALL OTHERGRADE 60 d) WALL DOWELS TO FOOTINGGRADE 60		OF CALIFORNIA	SANTA ANA, CAL TEL: # (949) FAX: # (949)	IFORNIA 9270) 756–8654
H=Building mean height C=Exposure category Cp=External Pressure Coefficient GCpi=Internal Pressure Coefficient	Per Figure 27.3—1 to 27.3—3 Per Table 26.13—1	c) IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OR OTHERWISE CAUSE DISTRESS OF THE STRUCTURE.	 A. DEFORMATIONS SHALL BE IN ACCORDANCE WITH A.S.T.M. A305. B. WELDED WIRE FABRIC SHALL BE MADE OF COLD DRAWN WIRE CONFORMING TO ASTM A185 AND SHALL BE SPLICED WITH A MINIMUM LAP OF 12". C. TIE WIRE SHALL CONFORM TO ASTM A-82. 	FC	EQUIPMENT DESIGNATION		
V=3 second gust wind speed q=qz for windward walls elevated at height z above the groun q=qh for leeward walls, sidewalls, and roof evaluated at heigh	it h.	d) BE RESPONSIBLE FOR ALL FORM WORK AND SHORING WORK DURING CONSTRUCTION.	2. ALL BARS SHALL BE FREE OF RUST, GREASE, MILL SCALE OR ANY MATERIAL WHICH MIGHT AFFECT ITS BOND TO CONCRETE.		EQUIPMENT NUMBER-1		
qi=qh for windward walls, sidewalls, leeward walls, and roofs o qi=qz for positive internal pressure evaluation in partially encl		e) ENSURE PROPER ALIGNMENT OF FINAL STRUCTURE INCLUDING ANY PRELOADING OF THE STRUCTURE TO DETERMINE FINAL POSITION OF THE COMPLETED WORK.	 ALL BAR BENDS SHALL BE MADE COLD. NO REBENDING OF BARS WILL BE PERMITTED. BAR LAPS SHALL BE MADE AWAY FROM POINTS OF MAXIMUM STRESS, AROUND CORNERS IN EACH DIRECTION 	1 S-3	SEE SECTION 1 ON SHEET S-3		
P=qh(GCp-(GCpi))	Per Equation 29.4-4	f) COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCTS, PIPES, SLEEVES, ELECTRICAL	OR AT LOCATIONS SHOWN ON THE DRAWINGS OR AS INDICATED BELOW. THE MINIMUM AMOUNT OF ANY LAP SHALL BE NOT LESS THAN 2 FEET.	2	KEY NOTE DESIGNATION		
P=Ptable(EAF)(RF)Kz Where EAF(Exposure Adjustment Factor)	Per Equation 30.6—1 Per Table 30.6—2	CONDUITS AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE OR BE INCORPORATED IN STRUCTURAL WORK.	 a) HORIZONTAL STEEL IN CONCRETE SLABS, WALLS, BEAMS AND GIRDERS — 36 DIAMETERS. b) CONCRETE BLOCK MASONRY — 48 DIAMETERS. 		CONCRETE ACOUSTIC		
Kz(Topographic Factor as defined in Section 26.8) RF(Effective Area Reduction Factor)	Per Table 30.6-2	g) SAFELY DISTRIBUTE ALL CONSTRUCTION MATERIALS TO BE TEMPORARILY STORED ON ROOF/FLOOR FRAMING OR OTHER PARTS OF THE STRUCTURE SO THE DESIGN LIVE LOAD WILL NOT BE EXCEEDED.	5. ALL TESTING OF REINFORCING STEEL SHALL BE AS REQUIRED BY LOCAL BUILDING CODE OR AS OTHERWISE NOTED IN THE SPECIFICATIONS.		PLYWOOD		
F = qh(GCf)(As) for Freestanding Walls F = qz(GCf)(Af) for Tanks and Open Signs, Frames, and Trus:	Per Equation 29.3-1 sed Towers Per Equation 29.4-1	2. ALL WORK SHALL CONFORM TO THE REQUIREMENT OF ALL REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK INCLUDING THE STATE OF CALIFORNIA DIVISION OF	 REFER TO CONCRETE NOTES FOR REQUIREMENTS FOR PLACEMENT DRAWINGS. PRIOR WELDING PROCEDURE APPROVAL IS REQUIRED FOR WELDING OF REINFORCING STEEL AND STEEL SHALL 		STEEL		
Where: qh(Velocity Pressure evaluated at height h)	Per Equation 29.3—1	INDUSTRIAL SAFETY AND CAL/OSHA TITLE 21 & 24 ETC., AND SHALL CONFORM TO THE CALIFORNIA BUILDING CODE 2016 EDITION.	BE COMPLY WITH ASTM A706. 8. WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY THE ELECTRIC ARC PROCESS AND PERFORMED,				9.3
G(Gust-effect Factor) Cf(Force coefficient) Af = Projected Area	Per Section 26.11 Per Figure 29.3—1	3. ALL WORK SHALL CONFORM TO THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES COMPRISING THE WORK.	UTILIZING EXX-70 ELECTRODES. ALL WELDING TO BE DONE UNDER THE CONTINUOUS INSPECTION OF A DEPUTY-INSPECTOR REGISTERED BY THE LOCAL BUILDING OFFICIAL.				DENDUM No
As = Gross Area		4. ANY ASTM DESIGNATIONS SHALL BE AS AMENDED TO DATE. 5. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING FOR ALL	9. ALL REINFORCING STEEL SHALL BE SUPPORTED AND TIED IN CONFORMANCE WITH THE LATEST EDITION OF "THE MANUAL OF REINFORCING STEEL PRACTICE FOR REINFORCED CONCRETE STRUCTURES".				/INGS - ADE
SEISMIC LOAD FOR NONBUILDING STRUCTURE DESIGN PER ASCE 7-16		STRUCTURAL MEMBERS OR AS REQUIRED FOR STRUCTURAL STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.	10. FOR SPLICES OF REBARS TO BE MECHANISM SPLICER U.N.O. SEE NOTE #7. 11. STAGGER SPLICES A MINIMUM OF TWICE THE LAP LENGTH FOR HORIZONTAL REINFORCEMENT.				ISED DRAV
	MULA 12.8-1) RMULA 12.8-2)	6. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.	11. STAGGER SPLICES A MINIMUM OF TWICE THE LAP LENGTH FOR HORIZONTAL REINFORCEMENT. 12. FOR WELDED REBARS USE ASTM A706 GRADE 60 WELDED REBARS WITH EXX-70.				/ REVI
Cs=The seismic response coefficient W= The seismic effective weight Sds=The design spectral response acceleration paramete R= The response modification factor	r	7. CONTRACTOR SHALL GIVE DUE AND LEGAL NOTICE TO ADJACENT PROPERTY OWNERS REGARDING THE PROTECTION OF THEIR PROPERTY AND STRUCTURES WHICH MAY BE NECESSARY DUE TO EXCAVATION AND CONSTRUCTION INDICATED ON THESE DRAWINGS, IN DUE TIME PRIOR TO START					/28/2025 QV
le= The important factor = 1 Cs(min.)=0.01		OF EXCAVATION.	CONCRETE BLOCK MASONRY AND BRICK MASONRY	ABBREVIATIONS	` `		
SEISMIC LOAD FOR EQUIPMENT SUPPORT AND ANCHOR DESIGN PER ASCE 7-16		CONCRETE	1. CONCRETE BLOCK UNITS 12"x4"x16" SHALL BE MEDIUM WEIGHT GRADE "N" UNITS CONFORMING TO ASTM C90. GRADE "N". REFER TO ARCHITECTURAL DRAWING AND /OR SPECIFICATIONS FOR BLOCK SIZE, FACE COLOR,	A.B. ANCHOR BOLT H ABV. ABOVE H.D.	HEIGHT HOLD DOWN	S	E 5
Fp=[((0.4)(ap)(Sds)(Wp))/(Rp/Ip)][1+2(z/h)] (13.3-1) Fp(MAX.)=(1.6)(Sds)(Ip)(Wp) (13.3-2) Fp(MIN.)=(0.3)(Sds)(Ip)(Wp) (13.3-3) Fp(VERT.)=(0.2)(Sds)(Ip)(Wp) WHERE: BASED ON SITE CLASS E SEISMIC DESIGN CATEGORY D Ss=1.162 Fa= 1.2 Short-period site coefficient, per table 11.4.1 ASCE 1	7–16	1. CONCRETE PCC TYPE V SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS. A. FOUNDATION, FOOTINGS, PILES, PILE CAPS: 4,000 PSI. B. COLUMNS, PILASTERS: 5,000 PSI. C. PAD, PAVEMENT, SLAB—ON—GRADE: 4,000 PSI. D. LIGHTWEIGHT CONCRETE: 3,000 PSI. 2. ALL CONCRETE SHALL BE STONE CONCRETE UTILIZING AGGREGATE CONFORMING TO ASTM C33. MAX.	 THE SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (f'm) IS 2000 PSI AT 28 DAYS WITH FULL STRESS USED IN THE DESIGN. THE COMPRESSIVE STRENGTH OF MASONRY SHALL EQUAL OR EXCEEDF'M WITH VERIFICATION BY PRISM TESTING OR UNIT STRENGTH METHOD IN ACCORDANCE WITH 2010 CBC SECTION 2105. MASONRY UNITS SHALL BE SUFFICIENTLY MOIST AT TIME OF LAYING TO PREVENT DEHYDRATION OF MORTAR AND GROUT. ABSORPTION RATE SHALL NOT EXCEED .25 OUNCES PER SQUARE INCH OF DURING ONE MINUTE PERIOD. 	A/C AIR CONDITIONING HR. A.D. AREA DRAIN ADJ. ADJUSTABLE IN. ALT. ALTERNATE INSP. ALUM. ALUMINUM INSUL. APPROX. APPROXIMATE INT.	HOUR INCH INSPECTION INSULATION INTERIOR	ABOLS AND NOTE	ELEC. INFRAST
Sms=(Fa)(Ss) = 1.394g, Per 11.4-1 ASCE 7-16 Sds=(2/3)(Sms) = 0.93g, Per 11.4-3 ASCE 7-16 Rp=Component response modification factor, per table 13.5-1 ap=Component amplification factor, per table 13.5-1 or 13.6-	or 13.6-1 ASCE 7-16 -1 ASCE 7-16	SIZE OF AGGREGATE 3/4". 3. CEMENT SHALL BE TYPE V CONFORMING TO TABLE 19-A-4 OF C.B.C. READY-MIXED CONCRETE SHALL CONFORM TO C.B.C., WATER AND CEMENT RATIO TO BE 0.5.	4. MASONRY UNITS SHALL BE FREE OF ALL SUBSTANCES WHICH MIGHT IMPAIR THE BOND OF THE UNITS TO MORTAR AND GROUT. FULL SIZE UNITS, OR FULL SIZE UNITS CUT TO PROPER SIZE ONLY SHALL BE USED IN THE WORK. ALL MASONRY UNITS SHALL BE FREE FROM OBJECTIONABLE AMOUNTS OF CRACKS AND SPALLS.	& AND L. L ANGLE LBS./# LLH LLY	LENGTH # POUNDS LONG LEG HORIZONTAL LONG LEG VERTICAL	INS, SYM	
Ip= 1 Component importance factor, per 13.1.3 ASCE 7-16 z=Height of component in structure withrespect to the base, h=Average roof height of structure with respect to the base, Wp=Component operating weight, per 13.3.1 ASCE 7-16	per 13.3.1 ASCE 7-16	4. CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS:	5. MORTAR SHALL BE MACHINE MIXED TO TYPE 'S' MIX CONSISTING BY VOLUME OF 1 PART CEMENT TO 3 PARTS SAND WITH 1/4 TO 1/2 PART LIME PUTTY. THE MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT THE AGE OF 28 DAYS.	BLK. BLOCK BLKG. BLOCKING MAX.	MAXIMUN	EVIATIO	NA BUS RGERS
SPECIAL INSPECTION PRO	OGRAM	a) CONCRETE AGAINST EARTH (UNFORMED)	6. GROUT SHALL BE MACHINE MIXED BY VOLUME AND CONSIST OF 1 PART PORTLAND CEMENT, 3 PARTS SAND WITH 1/10 TO 1/5 PART LIME PUTTY. GROUT SPACE MORE THAN 2 INCHES IN WIDTH FOR BRICK MASONRY AND 4 INCHES IN WIDTH FOR CONCRETE BLOCK MASONRY MAY HAVE BEEN IN ADDITION TO THE SAND NOT MORE THAN 2 PARTS PEA GRAVEL. THE GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT THE AGE OF 28 DAYS.	BM. BEAM MED. BOT. BOTTOM MET. B.S. BOTH SIDE MIN. C.C. CENTER TO CENTER N	MEDIUM METAL MINIMUM NORTH	URAL ABBRI	SANTA A BEB CHAI
ADDRESS OR LEGAL DESCRIPTION: 4301 WEST MACARTHUR BLVD., SANTA PLAN CHECK NUMBER: OWNER'S NAME: OCTA	ANA, CA 92704	5. BEFORE CONCRETE IS PLACED THE CONTRACTOR SHALL COORDINATE AND CHECK WITH ALL TRADES TO ENSURE THE PROPER PLACEMENT OF ALL OPENINGS. SLEEVES, INSERT, CURBS, DEPRESSIONS, ETC., RELATING TO THE WORK A SHOWN IN THE DRAWINGS. ANY CHANGE OR DISCREPANCY SHALL BE APPROVED BY THE STRUCTURAL ENGINEER AND THE LOCAL BUILDING AGENCY PRIOR TO PLACING	 CEMENT FOR MORTAR AND GROUT SHALL BE A LOW ALKALI TYPE CONFORMING TO ASTM C150. LIME SHALL BE TYPE 'S' HYDRATED LIME MEETING THE REQUIREMENTS OF ASTM C20-6. GROUT SHALL BE READY-MIXED CONCRETE, DELIVERED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C94. 	CEM. CEMENT (N) C.I. CAST IRON N.I.C. C.M.U. CONCRETE MASONRY UNIT NTS COL. COLUMN CONC. CONCRETE O.C.	NEW NOT IN CONTRACT NOT TO SCALE ON CENTER	STRUCT	OCTA ON OF
I, AS THE OWNER, OR AGENT OF THE OWNER (CONTRACTOR MAY NOT EMPINSPECTOR), CERTIFY THAT I, OR THE ENGINEER OF RECORD, WILL BE RES	SPONSIBLE FOR EMPLOYING	OF CONCRETE. 6. SLEEVES, OPENINGS OR OTHER ATTACHMENTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED	9. IF WORK IS STOPPED FOR ONE HOUR OR LONGER PROVIDE HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT BETWEEN BLOCK UNITS AND REINFORCING STEEL SHALL NOT BE LESS THAN 1/2".	CONT. CONTINOUS OPP. CONTR. CONTRACTOR OTO CTR. CENTER	OPPOSITE OUT TO OUT	et Title	Project INSTALLATIO
THE SPECIAL INSPECTOR(S) AS REQUIRED BY CALIFORNIA BUILDING CODE THE CONSTRUCTION PROJECT LOCATED AT THE SITE LISTED ABOVE.	,	BY THE STRUCTURAL ENGINEER AND THE LOCAL BUILDING AGENCY PRIOR TO PLACING OF THE CONCRETE.	10. THE THICKNESS OF GROUT BETWEEN BLOCK UNITS AND REINFORCING STEEL SHALL NOT BE LESS THAN 1/2".	DBL. DOUBLE PLYWD		Shee	Proj. NST
SIGNED: I, AS THE ENGINEER OF RECORD, CERTIFY THAT I HAVE PREPARED THE FOUNT INSPECTION PROGRAM AS REQUIRED BY CBC SECTION 1704 FOR THE CON		7. ALL CONCRETE MIXES SHALL CONFORM TO THE PROPORTIONS ESTABLISHED BY CODE FOR THE VARIOUS CONCRETE STRENGTHS REQUIRED FOR THE WORK. CONTRACTOR MAY AT THIS OPTION ENGAGE A CERTIFIED INDEPENDENT TESTING LABORATORY TO PREPARE MIX DESIGNS FOR THE WORK, AND HAVE COPIES OF SUCH MIX DESIGN AS WELL AS 7-DAY AND 28-DAY CYLINDER TEST RESULTS	11. ALL CELLS CONTAINING HORIZONTAL OR VERTICAL REINFORCING STEEL, BOLTS, OR INSERTS SHALL BE GROUTED. WHERE REINFORCING STEEL OCCURS IN OR ADJACENT TO MORTAR JOINTS, THE CELLS ON EACH SIDE OF SAID STEEL SHALL BE GROUTED WHEN NON-SOLID GROUT WALLS ARE USED.	DBSD. DOUBLE STUD P.S.F. DIAG. DIAGONAL P.S.I. DIAM. DIAMETER PTN.	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PARTITION	JOB # 1.1	19.6 DV
LOCATED AT THE SITE LISTED ABOVE. SIGNED: DA		WITHIN 6 MONTHS SUBMITTED TO THE STRUCTURAL ENGINEER AND LOCAL BUILDING OFFICIALS TO OBTAIN APPROVAL PRIOR TO ITS USE IN THE WORK.	12. FOOTING DOWEL IN MASONRY WALLS SHALL BE THE SAME SIZE AND SPACING AS VERTICAL WALL REINFORCEMENT.	DN. DOWN D.O. DOOR OPENING S DR. DOOR SHED	SOUTH SCHEDULE	_	MP OV
1⊠LIST OF WORK REQUIRING SPECIAL INSPECTION:		8. ALL CONCRETE UNLESS OTHERWISE NOTED ON PLANS WILL BE REGULAR WEIGHT HARD ROCK TYPE (150 LB/CU. FT.) AGGREGATE SHALL CONFORM TO A.S.T.M. C-33 WITH PROVEN SHRINK CHARACTERISTICS OF LESS THAN 0.04% AS PER A.S.T.M. C-157. AGGREGATE FOR CONCRETE FILL	13. NO PIPES OR DUCTS SHALL BE PLACED IN MASONRY WALLS UNLESS SPECIFICALLY MIXED OR DETAILED.14. BOLTS OR INSERTS SHALL BE GROUTED WITH 1" MINIMUM OF GROUT BETWEEN BOLT OR INSERT AND	SIM. (E) EXISTING SMS	SIMILAR SHEET METAL SCREWS	DATE 03-28	3V B-2025 NOTED
STRUCTURAL CONCRETE OVER 2500 PSI	ELD WELDING GH STRENGTH BOLTING POXY ANCHORS	OVER STEEL DECK SHALL BE LIGHTWEIGHT EXPANDED SHALL AGGREGATE CONFORMING TO ASTM 330.	MASONRY. 15. MASONRY WALLS ABOVE 10'-0' IN HEIGHT SHALL BE BRACED DURING ERECTION. THE BRACING SHALL	EMBED'T EMBEDMENT SPEC. EQ. EQUAL SQ. E.W. EACH WAY STL.	SPECIFICATION SQUARE STEEL	SA-S	
STRUCTURAL MASONRY SPECIFIED SF	PRAYED—ON FIREPROOFING HER:	9. MAXIMUM SLUMP OF CONCRETE USED IN POLE FOUNDATION WORK SHALL BE FOUR INCHES ± 1/4". VIBRATION: VIBRATION OF CONCRETE SHALL BE IN ACCORDANCE WITH THE GENERAL PROVISIONS OUTLINED IN PORTLAND CEMENT ASSOCIATION SPECIFICATIONS ST26. CURING: CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR MINIMUM OF FIVE DAYS AFTER ITS PLACEMENT. APPROVED	WITHSTAND A WIND LOAD OF 22 LBS PER SQUARE FOOT APPLIED PERPENDICULAR TO WALL IN EITHER DIRECTION. BRACING SHALL REMAIN IN PLACE UNTIL ROOF DIAPHRAGM IS INSTALLED.	EXT. EXTERIOR		550 South Main St	
			16 FULL HEAD AND RED IDINTS ARE REQUIRED FOR "ALL CELLS FILLED" CONSTRUCTION	I FON FOLINDATION TS	HIDL		

ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE.

12. ALL CONCRETE SHALL BE PLACED UNDER THE SUPERVISION OF A DEPUTY INSPECTOR LICENSED BY

LOCATING CONSTRUCTION AND POUR JOINTS SHALL BE APPROVED BY THE OWNER PRIOR TO POURING CONCRETE.

CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING.

THE LOCAL BUILDING OFFICIAL FOR CONTINUOUS INSPECTION.

13. INSPECTION AND TESTS SHALL COMPLY WITH SECTION 1704 OF THE CBC.

18. ALL GROUT MUST BE CONSOLIDATED EITHER BY (1) VIBRATION OVER THE HEIGHT OF POUR (VIBRATION MUST

19. PROVIDE CLEAN-OUT OPENINGS AT BOTTOM OF ALL VERTICALLY GROUTED CELLS IF GROUT LIFT EXCEEDS

20. SHRINKAGE CONTROL JOINTS SHALL BE SPACED AT NO MORE THAN 400 SQUARE FEET OF WALL AND

BE PERFORMED AFTER THE INITIAL LOSS OF WATER AND BEFORE INITIAL SET) OR (2) BY PUDDLING, USING A

SHALL BE REQUIRED AT MAJOR CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS, WALL OPENINGS AND

16. FULL HEAD AND BED JOINTS ARE REQUIRED FOR "ALL CELLS FILLED" CONSTRUCTION.

AT CONTROL JOINTS IN FOUNDATION, IN ROOF AND IN FLOORS, ETC.

17. ALL CONCRETE BLOCKS SHALL BE LAID IN A RUNNING BOND.

SHRINKAGE COMPENSATING ADMIXTURE.

5'-0". MAXIMUM GROUT LIFT IS 10'-0".

550 South Main Street Orange, CA 92668 714/560/OCTA

T.W.

TYP.

W.

W/

WT.

W/0

FOUNDATION

FACE OF CONCRETE

GALVANIZED SHEET METAL

FLOOR

FOOTING

GAUGE GALVANIZED

GYPSUM BOARD

F.O.C.

GYP.BD.

FTG.

UNLESS NOTED OTHERWISE

TOP OF WALL

TYPICAL

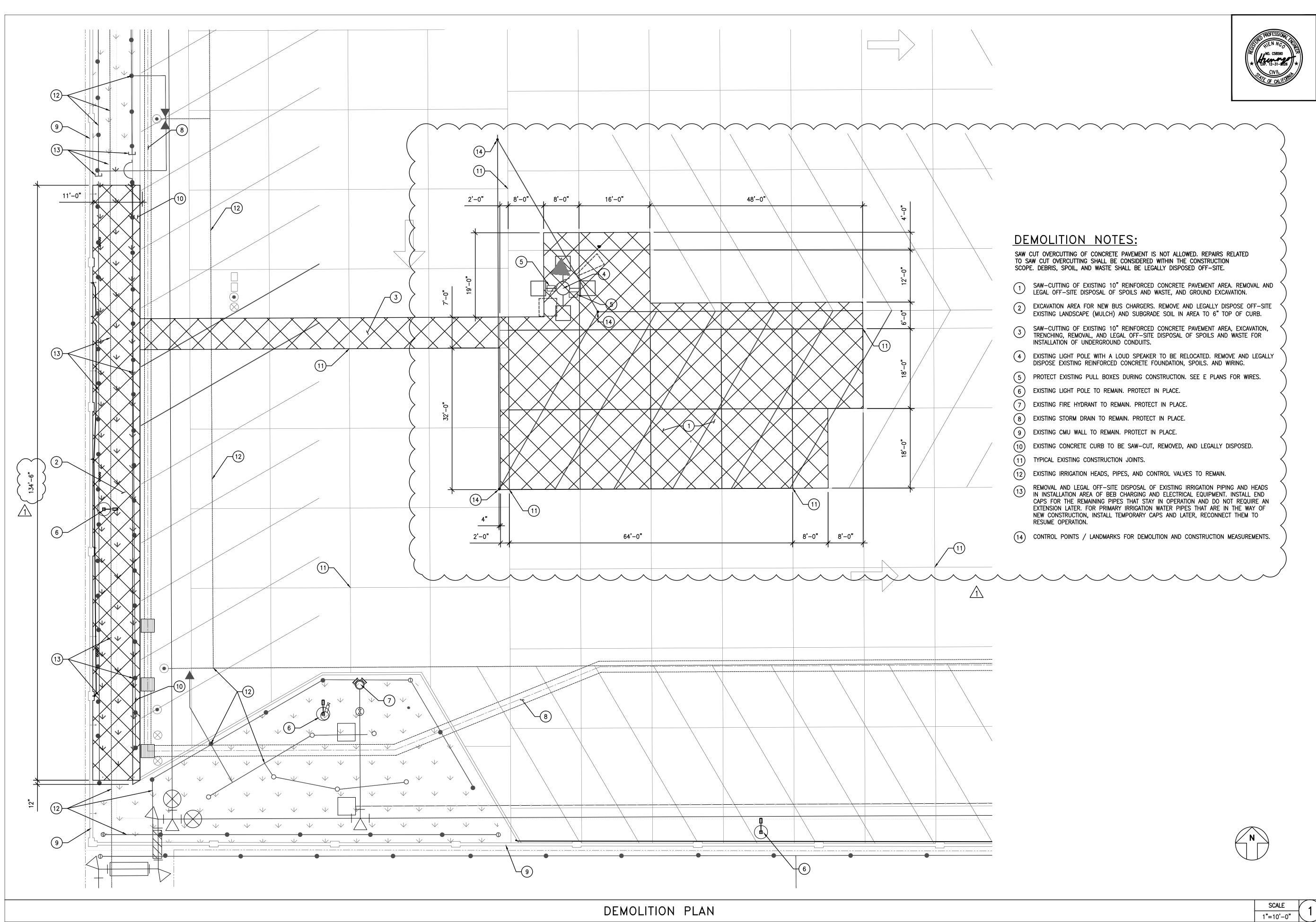
WEST

WITH

WASHER

WITHOUT

WEIGHT





A MARK DATE BY REVISED DRAWINGS - ADDENDUM No. 3

MARK DATE BY REVISIONS

ct OCTA SANTA ANA BUS BASE ALLATION OF BEB CHARGERS & ELEC. INFRASTR. WEST MACARTHUR BOULEVARD, SANTA ANA, CA

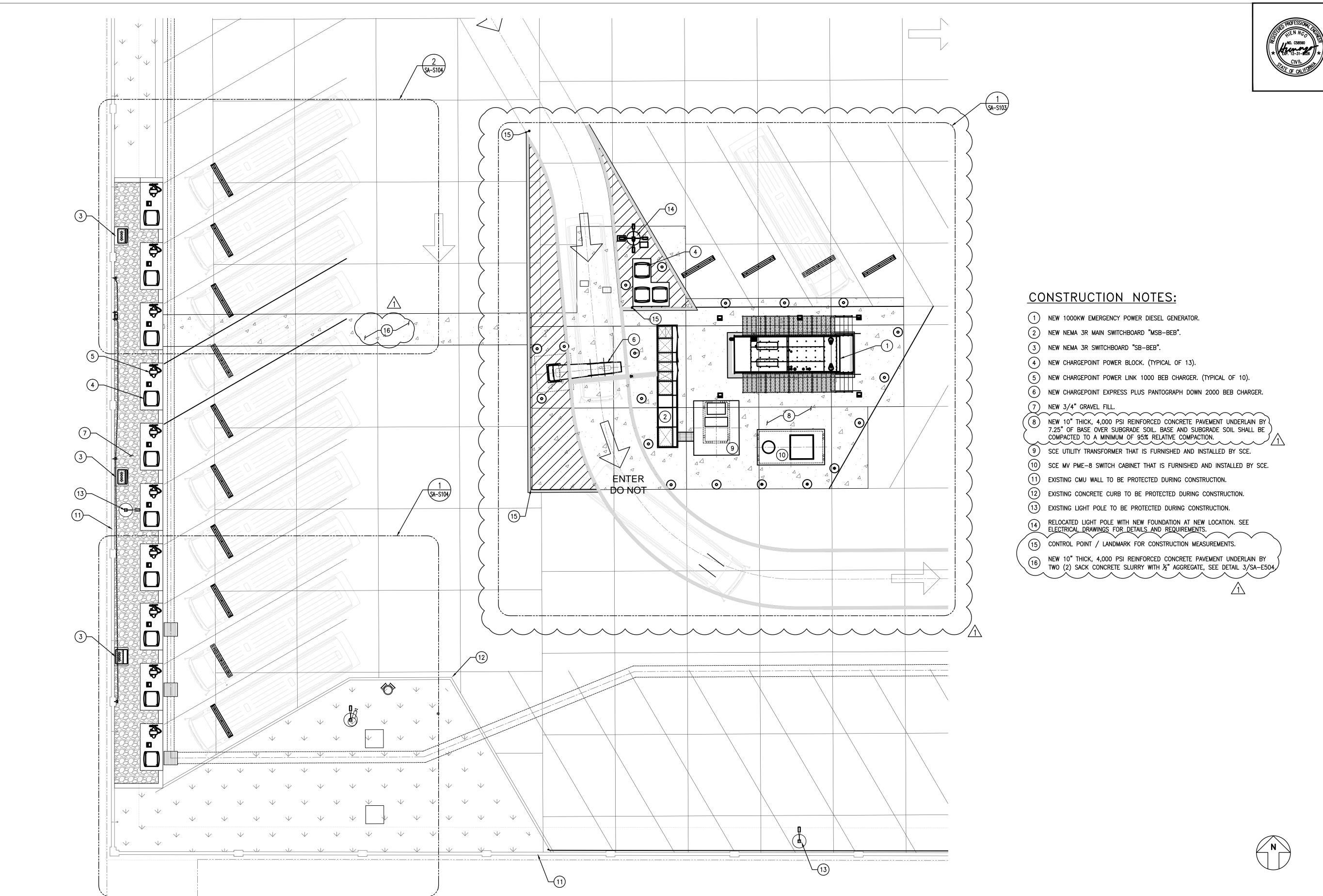
JOB # 1.19.6
DESIGN BY: SDV
DRAWN BY: TMP
CHECKED BY: QV

ATE 03-28-2025
CALE AS NOTED

SHEET AS NOTED SHEET

550 South Main Stre Orange, CA 92668 714/560/OCTA









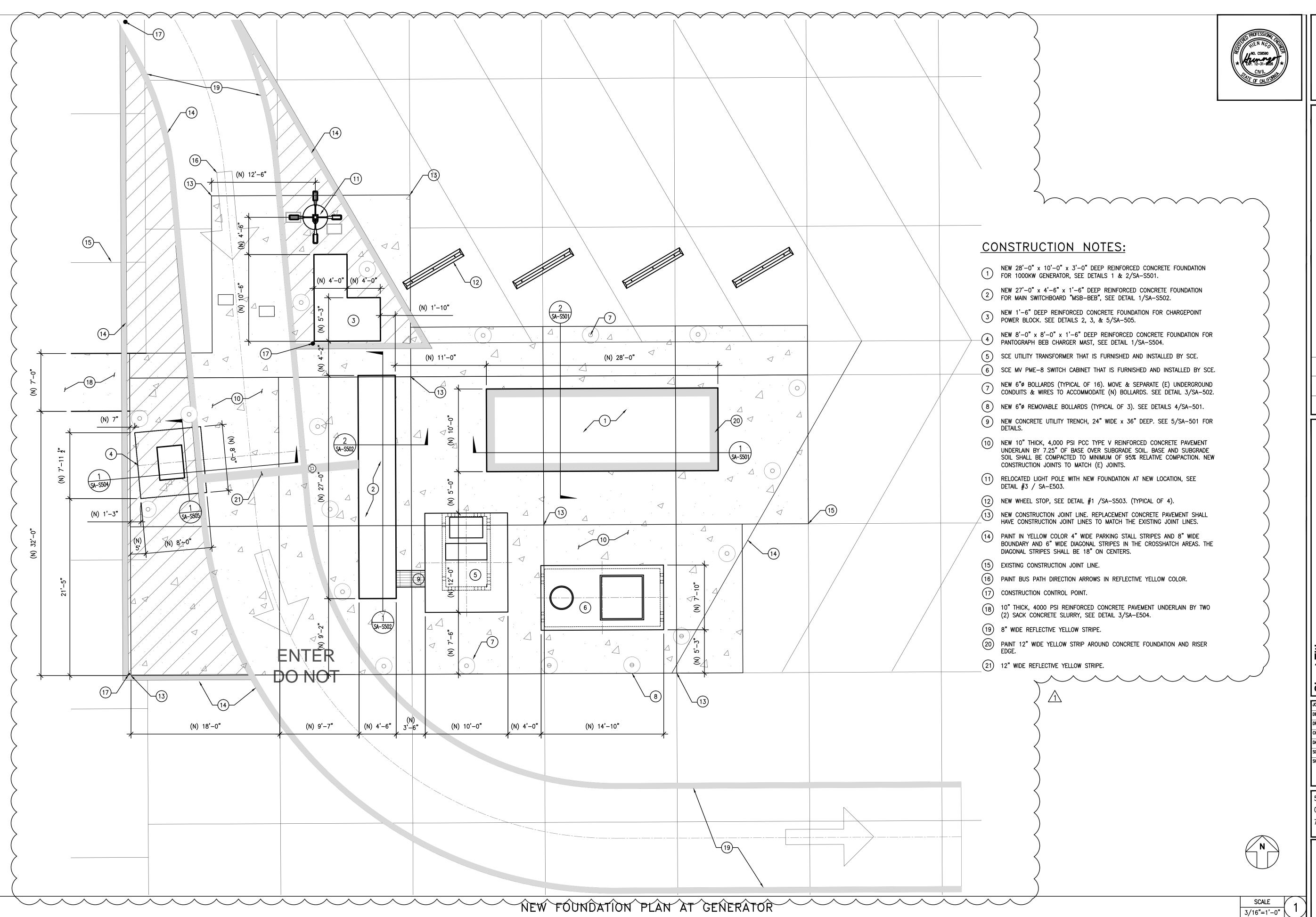
03-28-2025

SA-S102

550 South Main Street Orange, CA 92668 714/560/0CTA



1"=10'-0"





STR.

A, CA

MARK DATE BY REVISED DRAWINGS - ADDENDUM No. 3

MARK DATE BY REVISIONS

NEW PLAN AT GENERATOR

OCTA SANTA ANA BUS BASE

ION OF BEB CHARGERS & ELEC. INFI

OB # 1.19.6
DESIGN BY: SDV

ORAWN BY: TMP
CHECKED BY: QV

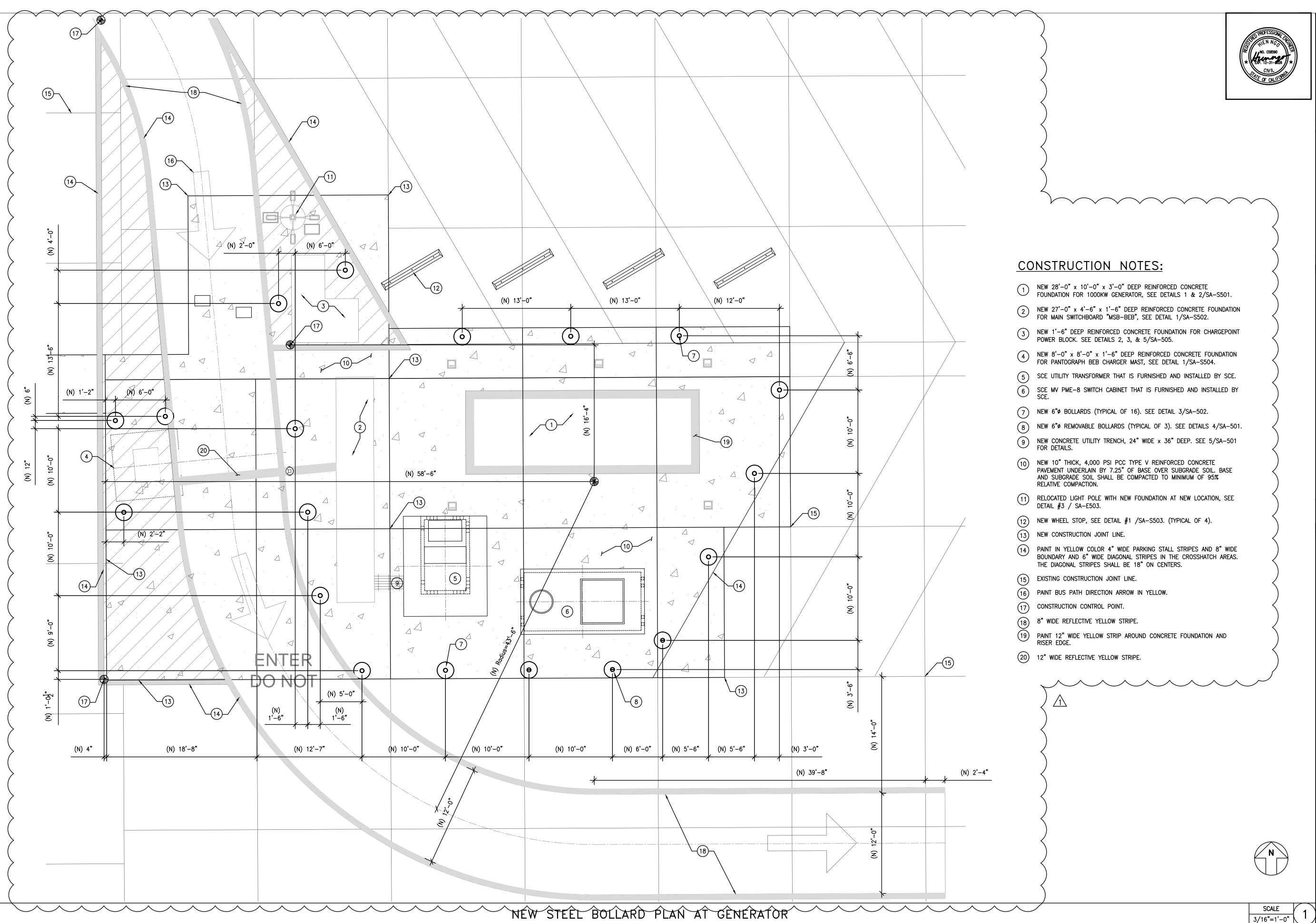
DATE 03-28-2025

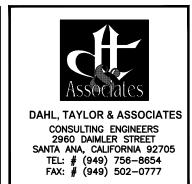
CALE AS NOTED
HEET
SA-S103

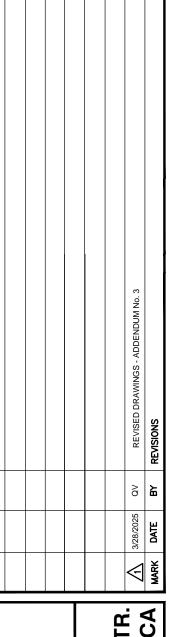
550 South Main Street

Orange, CA 92668
714/560/OCTA









NEW STEEL BOLLARD PLAN AT GENERATOR

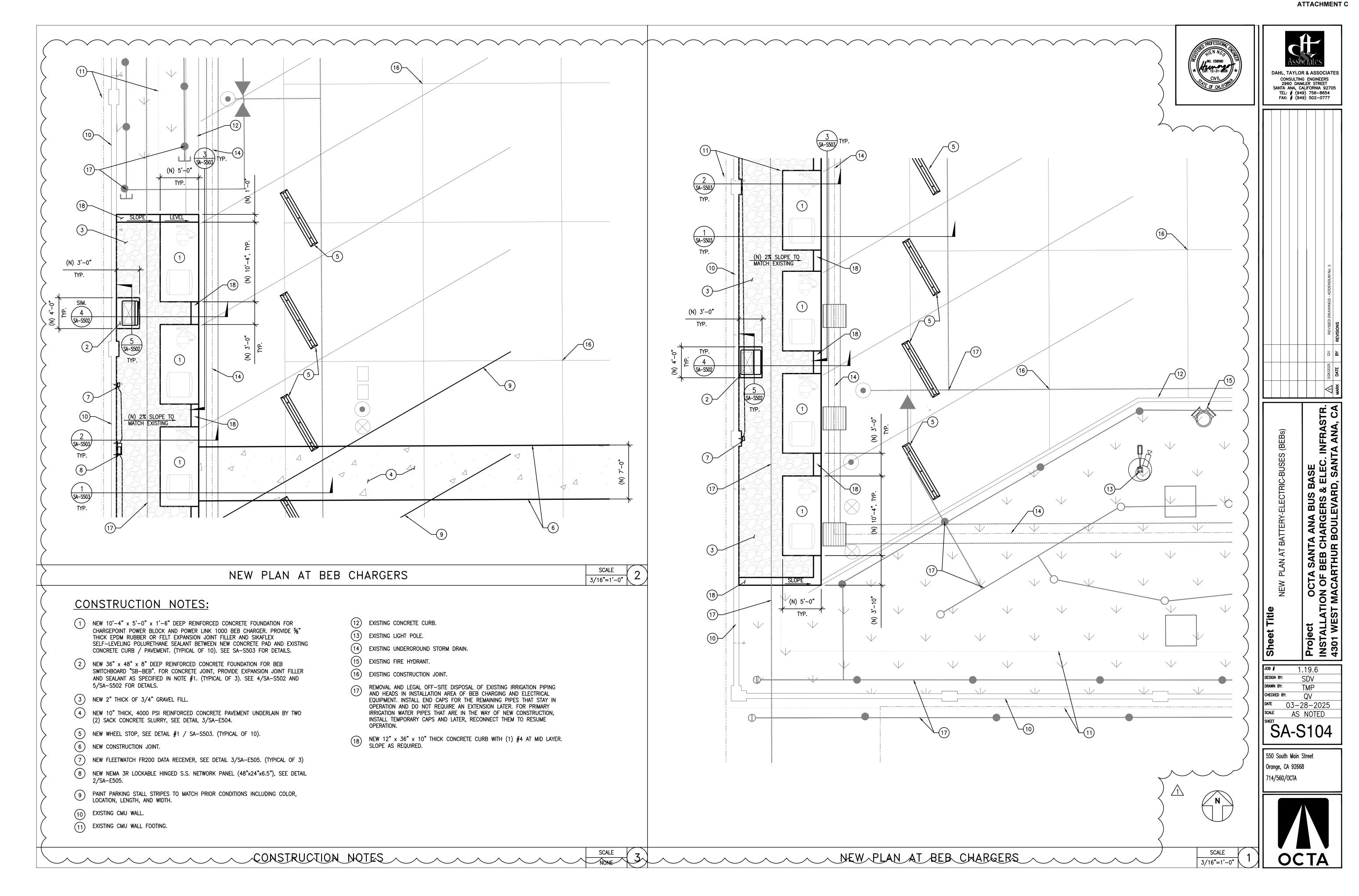
T OCTA SANTA ANA BUS BASE
LATION OF BEB CHARGERS & ELEC. INFRASTEST MACARTHUR BOULEVARD, SANTA ANA,

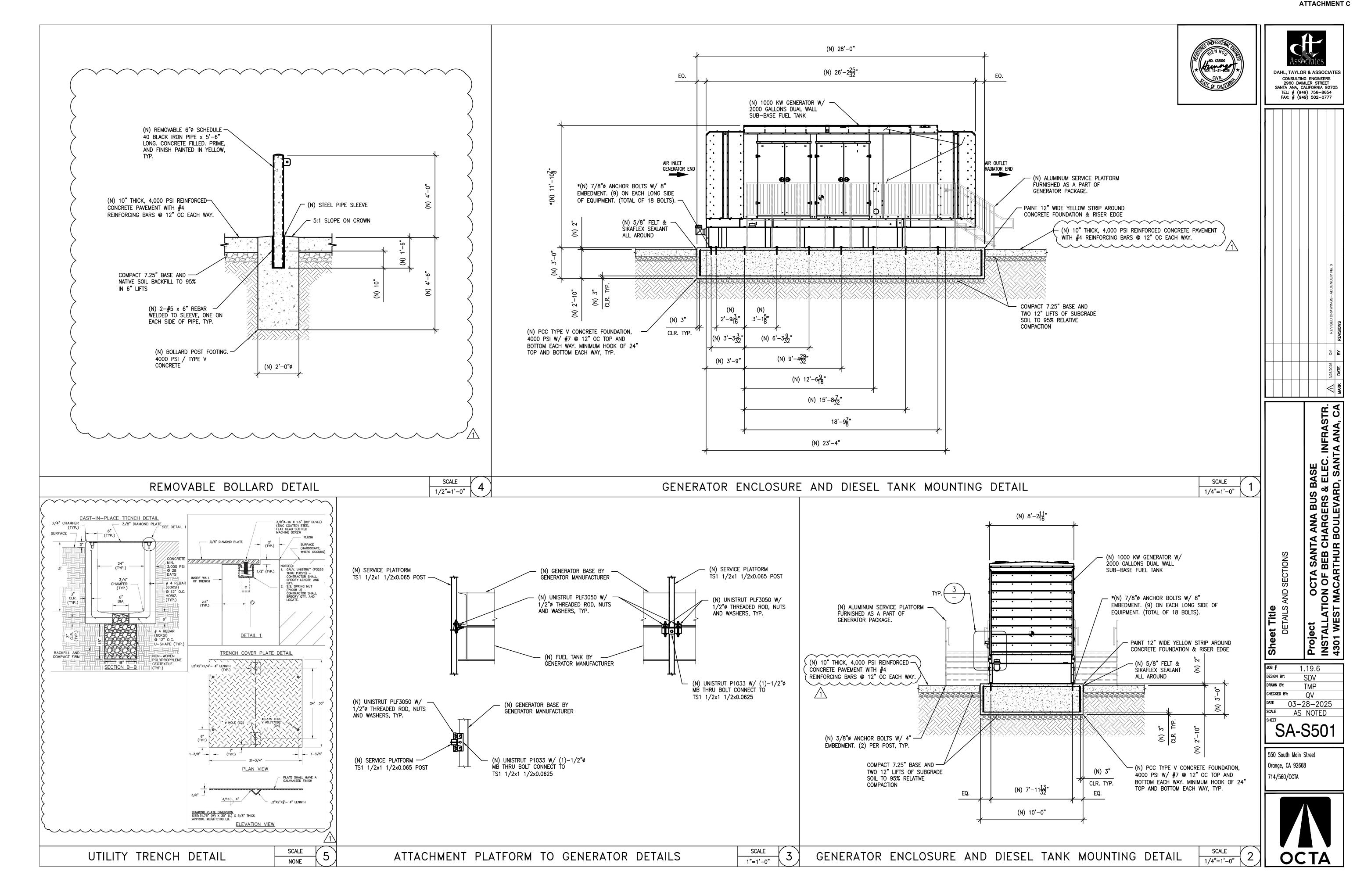
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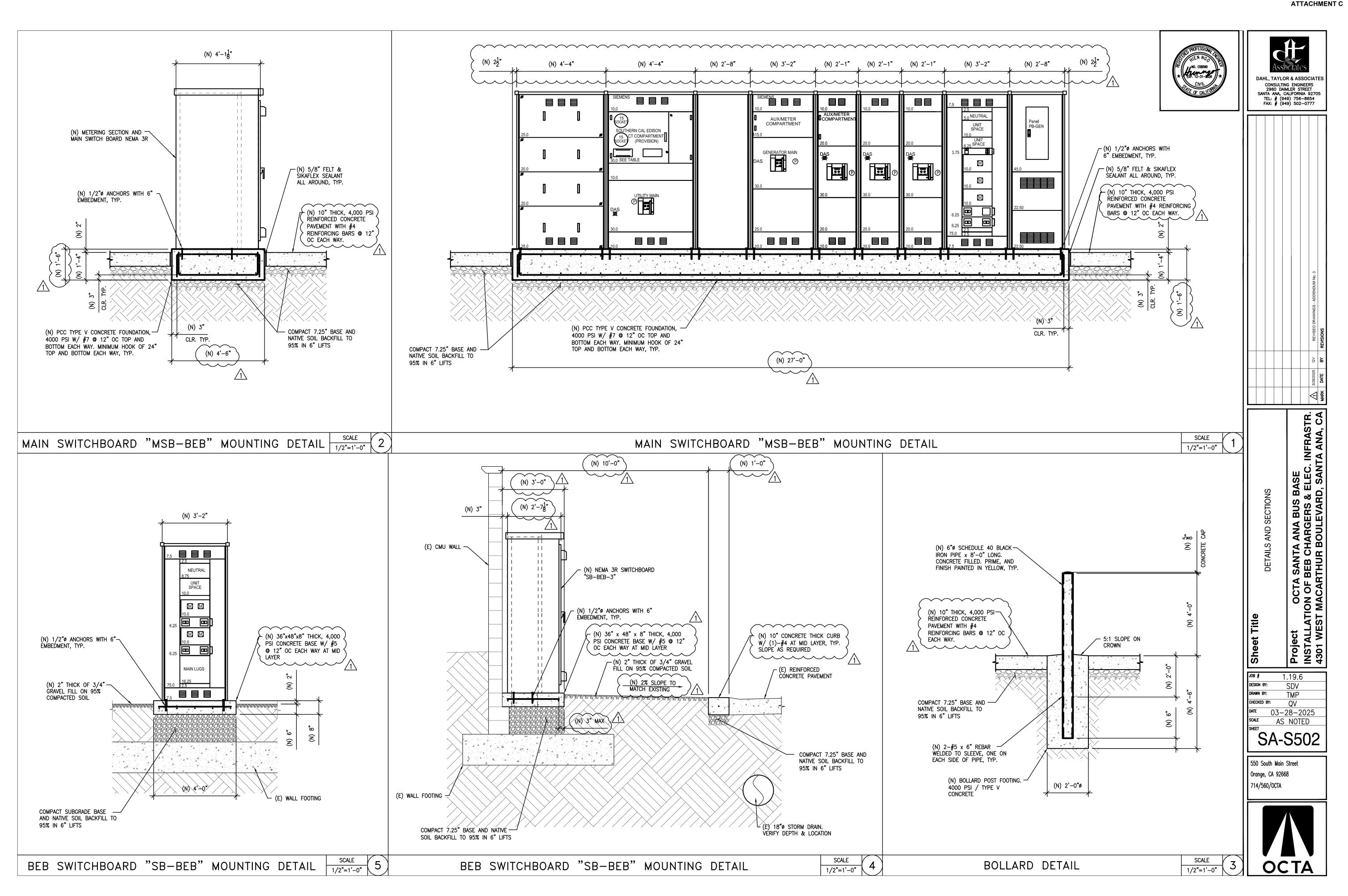
550 South Main Street Orange, CA 92668

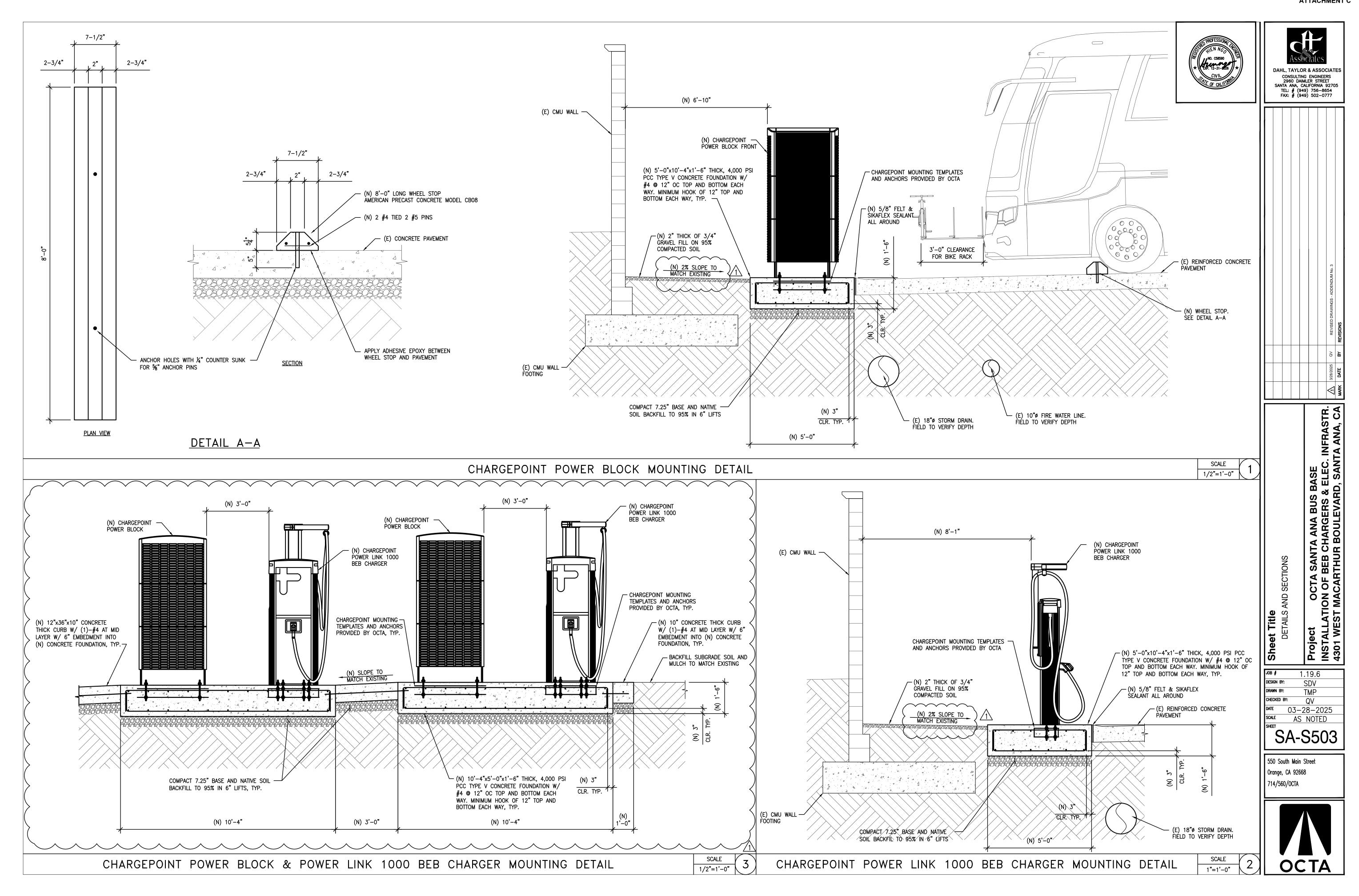
714/560/OCTA

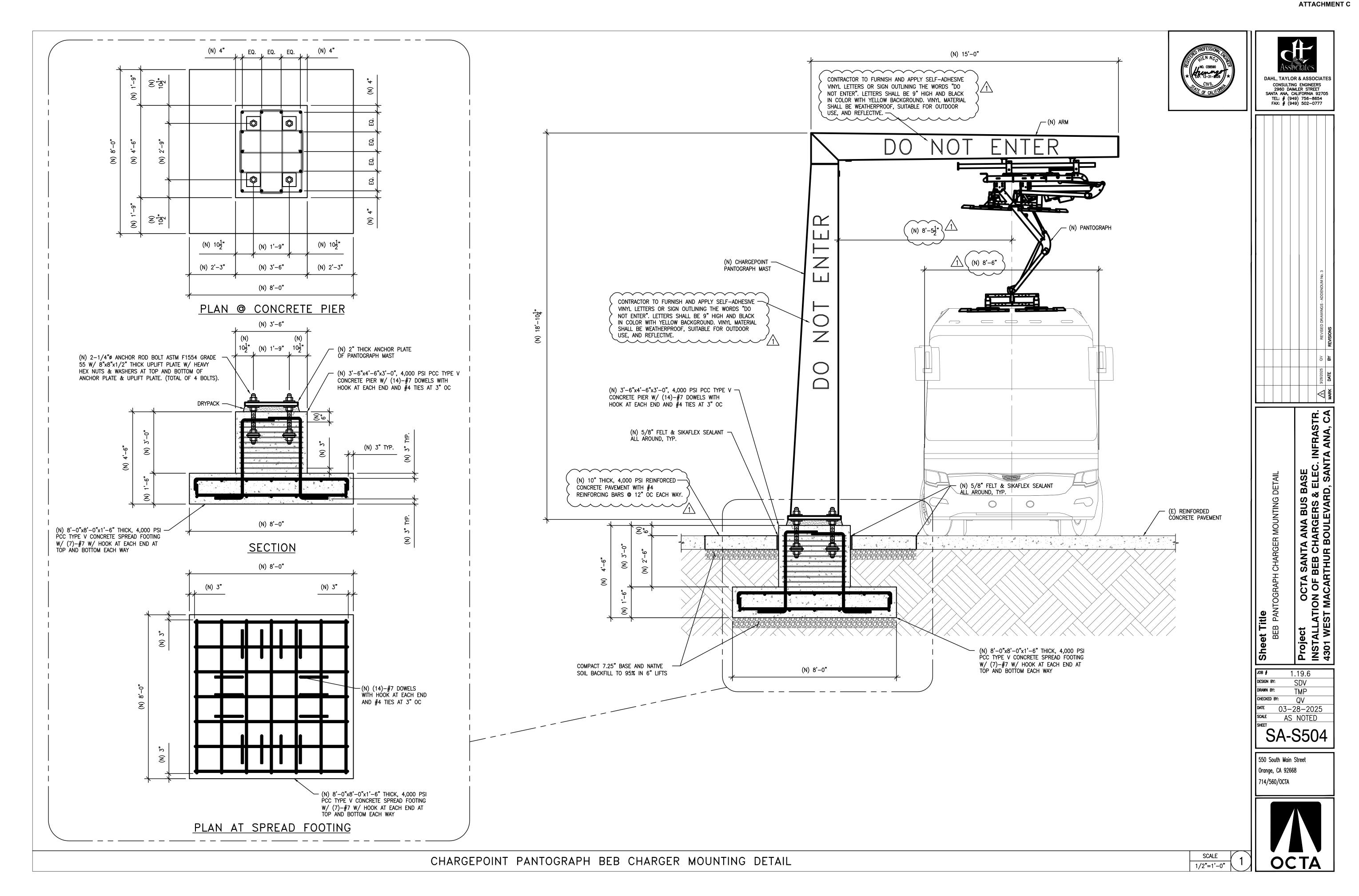


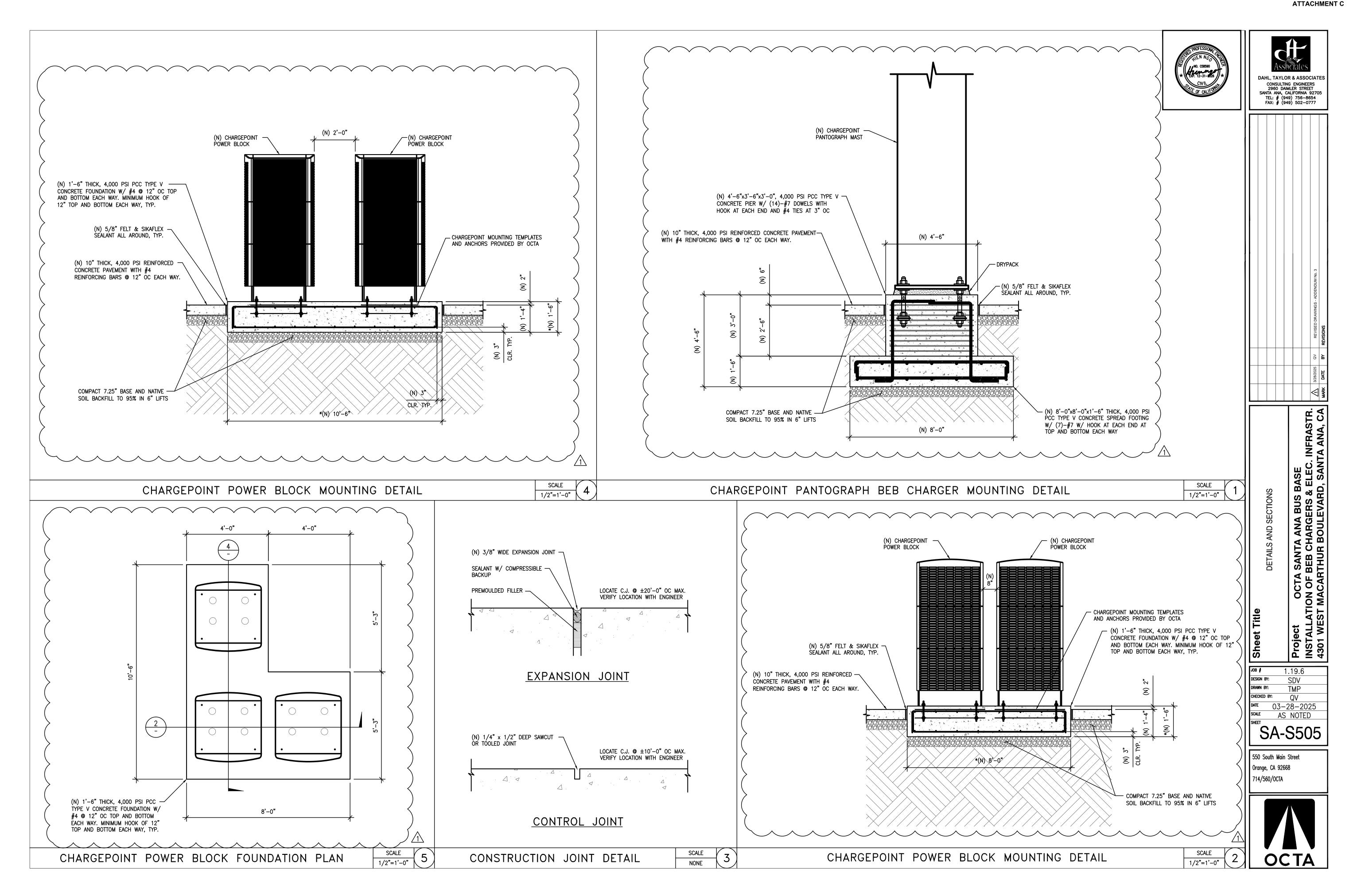


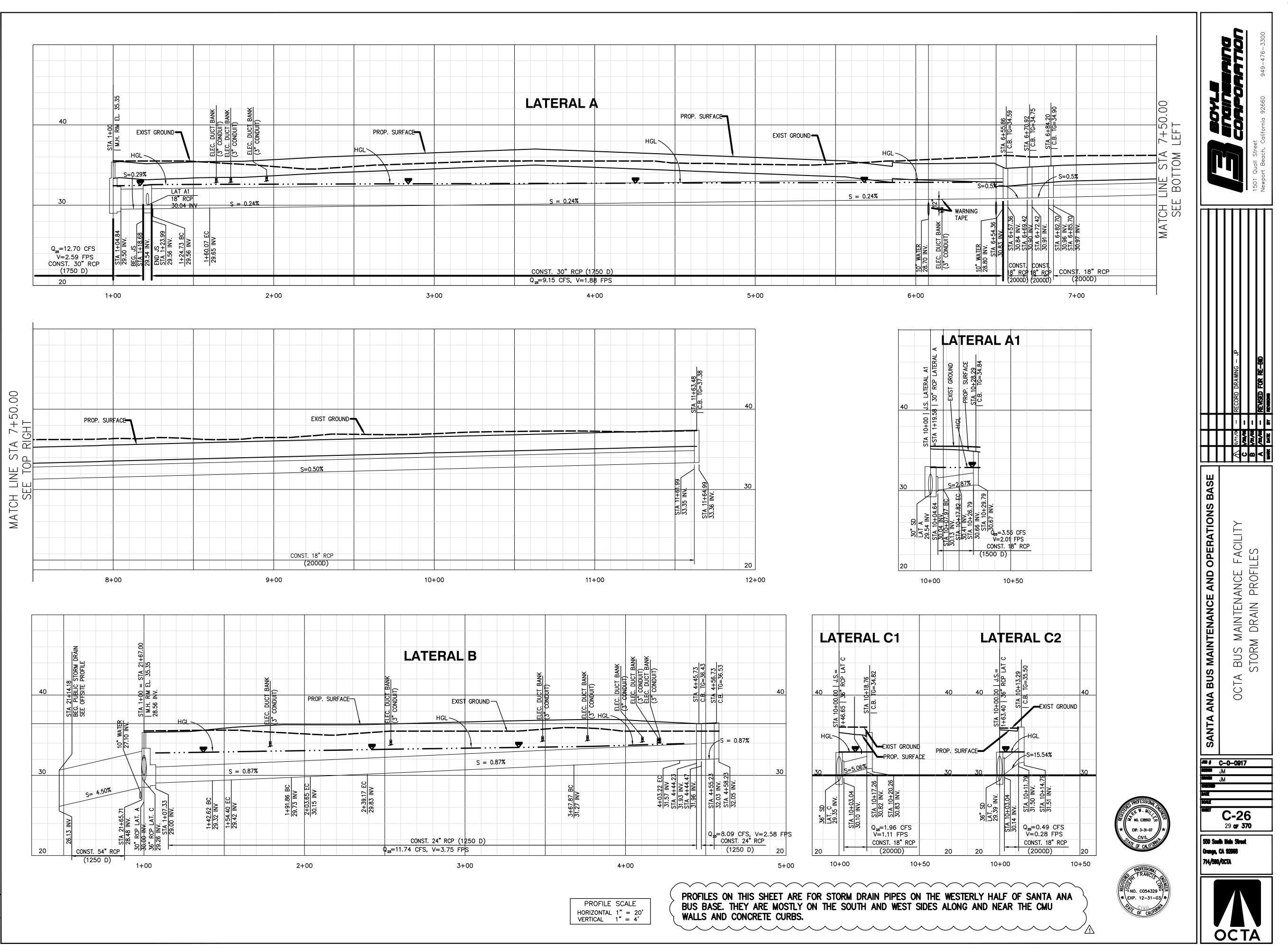














IFB No. 5-3922

Date: March 18, 2025

1.	Company Name: Micros Electric
	Attendee: Scar JR. Floras
	Address: 8317 Secura Wax
	City, State Zip: Senta Fe Spring
	Phone Number: (323) 909-0160 Registered on CAMM NET? Yes No
	Prime Sub
	E-Mail Address: Oscar, JR @ Oscarselectric. com
2.	Company Name:
۷.	
	Attendee:
	Address:
	City, State Zip:
	Phone Number: _() Registered on CAMM NET?
	Prime Sub
	E-Mail Address:
 3.	Company Name:
	Attendee:
	Address:
	City, State Zip:
	Phone Number:(Registered on CAMM NET? Yes No
	Prime Sub
	E-Mail Address:



IFB No. 5-3922

Date: March 18, 2025

1.	Company Name: Falkon Construction Inc.
	Attendee: VAL MATABLE
	Address: 142 S. DiAMOND BAR Bud, #432
	Address: 1772 5. Dawon CA 91765
	City, State Zip: Diamond BAR CA 91765
	Phone Number: (310) 714 1686 Registered on CAMM NET? Yes No
	Prime K Sub
	E-Mail Address: VALE FALKONCONCRETE, COM
2.	Company Name:
	Attendee:
	Address:
	City, State Zip:
	Phone Number: _() Registered on CAMM NET?
	Prime Sub
	E-Mail Address:
3.	Company Name:
	Attendee:
	Address:
	City, State Zip:
	Phone Number: _(
	Prime Sub
	E-Mail Address:



IFB No. 5-3922

Date: March 18, 2025

1.	Company Name: Asplundh Construction	
	Attendee: Chad Reis	
	Address: 7431 Walnut	
	City, State Zip: Buena Park, CA 90420	
	Phone Number: (7/4) 642-0/35 Registered on CAMM NET? Yes 🕅 N	o
	Prime 🖄 Sub 🗌	
	E-Mail Address: <u>Creis @ asplundh. com</u>	
	- N	
2.	Company Name:	
	Attendee:	
	Address:	
	City, State Zip:	
	Phone Number:() Registered on CAMM NET? Yes No)
	Prime Sub	
	E-Mail Address:	
3.	Company Name:	
	Attendee:	
	Address:	
	City, State Zip:	
	Phone Number: _() Registered on CAMM NET?)
	Prime Sub	
	E-Mail Address:	



IFB No. 5-3922

Date: March 18, 2025

	Company Name: ROYM FUEERRIC COMPANY
1.	(FDD: 1 MCLIA!
	Attendee:
	Address: 8481 URDINE COURT
	City, State Zip: SALDAUMO, UA 95828
	Phone Number: (310) 925 6973 Registered on CAMM NET? Yes No
	Prime Sub Sub Sub E-Mail Address: 12004 & vayalelect. any
	<u> </u>
2.	Company Name: Johnson - Petter
	Attendee: 5heg Kelley
	Address: 1202 Shopmaker AVe
	City, State Zip: Santa Fe Springs CA 90670
	Phone Number: (562) 201-5074 Registered on CAMM NET? Yes No
	Prime Sub
	E-Mail Address: 9 Kelley @ johnson - Petter Com
3.	Company Name:
	Attendee:
	Address:
	City, State Zip:
	Phone Number:(Registered on CAMM NET? Yes No
	Prime Sub
	E-Mail Address:



IFB No. 5-3922

Date: March 18, 2025

	Company Name: CDM Construtors
1.	Attendee: Scoth Green / Tony Hadsall
	Attendee: Scott Gree / Brog Hard Stock
	Address: 9220 developed five
	City, State Zip: Rancho Cucamanya
	Phone Number: (909) 757-9951 Registered on CAMM NET? Yes No
	Prime Sub [] E-Mail Address: Greensc @ com Smith.com
2.	Company Name: HAMPTON TEDDER ELECTRIC
	Attendee: FRANK AGUILAR
	Address: 4671 STATE ST
	City, State Zip:MONTLIAIR_ (Ca
	Phone Number: (909) 210-9785 Registered on CAMM NET? X Yes No
	Prime Sub
	E-Mail Address: FRAME. AGUILAR C HAMPTON TERRER COM
3.	Company Name: PARWest Line Contractors / LC
	Attendee: Esdgar B. Martinez-Franco
	Address: 10771 Almond Avenue -A
	City, State Zip: Fontana CA
	Phone Number: (909) 727-1586 Registered on CAMM NET? Yes No
	Prime ☑ Sub □
	E-Mail Address: Comartinez-Francoa partic Com