

ADDENDUM #1
SCCOE RIDDER PARK BACKUP GENERATOR

Bid # B 03-23-24

San Jose City Permits:

Building Permit # PC22-681986

SANTA CLARA COUNTY OFFICE OF EDUCATION

Prepared by Architect
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This Addendum forms a part of the Contract Documents and modifies the original bidding documents dated 08/24/2023.

As noted below. Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

CHANGES TO THE SPECIFICATIONS

Item 1 Specification Section 00 21 13 – INSTRUCTION TO BIDDERS

- A. Section 2 – Bid Schedule. Change Completion Date to 473 Calendar Days.

Item 2 Specification Section 00 31 19 – EXISTING CONDITIONS

- A. Section 2.d – Remove “As-Bults OR Original Construction Drawings” and replace with “As-Bults Drawings”.

Item 3 Specification Section 00 41 13 – BID FORM

A. Item 2, Allowance(s) – Remove Item 2 and replace with the following:

Allowance(s). The Bidder’s Base Bid shall include the following Allowance. Administration of the Allowance shall be per Specification Section 01 21 00 Allowances.

<p>TEMPORARY POWER Allowance: Allowance to <u>provide temporary power for the project per Spec. Section 01 21 00, attached is this addendum.</u></p>	<p><u>\$ 10,000.00</u></p>
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Item 4 Specification Section 00 52 13 – AGREEMENT

- A. Section 3 – Remove “Two Hundred and Ten (210) consecutive calendar days” and replace with “Four Hundred Seventy - Three (473) consecutive calendar days”.
- B. Section 5 – Liquidated Damages.
 Remove Section 5, Part 1 and replace with:

1. **Liquidated Damages:** Time is of the essence for all Work to be performed. It is hereby understood and agreed that it is and will be difficult and/or impossible to ascertain and determine the actual damage that SCCOE will sustain in the event of and by reason of Contractor's delay; therefore, Contractor shall forfeit to SCCOE the following sum(s) (“Liquidated Damages”):

- **Milestone No. 1: Initial complete submittal of Main Switchboard with ATS & MTS Submittals**
 Five Hundred dollars (\$500.00) per day as Liquidated Damages for each and every day's delay beyond the time herein prescribed for each item on approved Submittal Schedule. **Twenty-Eight (28) calendar days from Notice to Proceed date.**
- **Milestone No. 2: Completion of all work except installation of Switchboard/Automatic Transfer Switch and Manual Transfer Switch.**
 Five Hundred dollars (\$500.00) per day as Liquidated Damages for each and every day's delay beyond the time herein prescribed in finishing the Work of Milestone No.1. **Work to be completed within One-Hundred Twelve (112) calendar days of Notice to Proceed date.**
- **Project Completion:**
 Five Hundred dollars (\$500.00) per day as Liquidated Damages for each and every day's delay beyond the Contract Time to complete all the work. All work to include final testing and commissioning. **Seventy (70) calendar days from receipt of Switchboard/Automatic Transfer Switch and Manual Transfer Switch.**

Item 5 Specification Section 00 52 14 – CONCEPTUAL CONSTRUCTION SCHEDULE

A. Add Section 00 52 14 Conceptual Construction Schedule, attached to this Addendum, to the Specifications.

Items 5 Spec Section 01 11 01 – SUMMARY OF WORK

- A. Remove Section 1.5.2.

Item 6 Spec Section 01 21 00 – ALLOWANCES - added

Item 7 Spec Section 01 50 01 – TEMPORARY POWER

- A. Remove Spec Section 01 50 01 from Div 01 bid documents and replace with Spec Section 01 50 01 attached to this Addendum.

Item 8 Specification Section 262413- Switchboards

- A. Added “Related Sections”
- B. Deleted “Enclosed, Insulated-Case Circuit Breaker” and “Instrumentation” sections
- C. Part 3 EXECUTION: Added reference to Section 015001, “Temporary power”, Requirement for Training and minor edits.

CHANGES TO THE DRAWINGS

Architectural:

Item 1 Sheet A0.01

- B. Added sheet E.10 to the sheet index

Item 2 Sheet A1.10

- C. Refer to attached sheet A1.10 for added pathway of conduits in the building and keynote 4.

Item 3 Sheet A1.11

- A. Refer to attached sheet A1.11 for revised demolition of existing gate and fence.

Item 4 Sheet A2.10

- B. Refer to attached sheet A2.10 for added Keynote 22 for new striping.

Item 5 Sheet A2.11

- A. Refer to attached sheet A2.11 for added Keynote 23 for new gate and fence.
- B. Refer to updated keynote 16

Item 6 Sheet A12.12

- C. Refer to attached sheet A12.12 for new detail 9 & 12 for new gate.

Item 7 Sheet A12.32

- A. Refer to attached sheet A12.32 for new detail 15 & 16 for wall penetration.

Civil:

Item 1 Sheet C1

- B. Refer to attached sheet C1 for revised demolition of fence and gate.

Items 2 Sheet C2

- B. Refer to attached sheet C2 for Revised new fence and gate.

Electrical:

Item 1 Drawing E-1:

- A. Added abbreviation “ARMS and OFCI”

Item 2 Drawing E—3:

- A. Added abbreviation “OFCI”

Item 3. Drawing E-4:

- A. Added 2 ND sentence to sheet Note 3A

Item 4. Drawings E-5:

- A. Added Surge Protection Device on Single Line Diagram.
- B. Added Sheet Notes 10 and 11

Item 5. Drawing E-6:

- A. Added Surge Protection Device on Single Line Diagram.
- B. Added Sheet Note 11

Item 6. Drawing E-8:

- A. Added Detail 3, Switchboard anchoring detail.

ATTACHEMENTS

1. South and North Generator Staging Plan

DOCUMENT 00 52 14

CONCEPTUAL CONSTRUCTION SCHEDULE

SCCOE BACKUP GENERATORS CONCEPTUAL SCHEDULE					2024												2025																		
ID	Task Name	Duration	Start	Finish	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov			
1	NOTICE TO PROCEED	0 days	Mon 10/23/23	Mon 10/23/23			10/23	◆	NOTICE TO PROCEED																										
2	Prepare Initial Submittals	4 wks	Mon 10/23/23	Fri 11/17/23																															
3	MILESTONE NO.1 - Initial Complete Submittal	0 days	Fri 11/17/23	Fri 11/17/23				11/17	◆	MILESTONE NO.1 - Initial Complete Submittal																									
4	AOR Reviews/Approves Submittals	2 wks	Mon 11/20/23	Fri 12/1/23																															
5	Switchboard/ATS/MTS Procurement	52 wks	Mon 12/4/23	Fri 11/29/24																															
6	Initial Construction	8 wks	Mon 10/23/23	Fri 12/15/23																															
7	Est. Delivery of Generators	0 days	Fri 12/15/23	Fri 12/15/23				12/15	◆	Est. Delivery of Generators																									
8	Completion of Construction	8 wks	Mon 12/18/23	Fri 2/9/24																															
9	Initial Testing / Commissioning	1 wk	Mon 2/12/24	Fri 2/16/24																															
10	MILESTONE NO. 2 - Completion of all Work except MSB/ATS/MTS	0 days	Fri 2/16/24	Fri 2/16/24						2/16	◆	MILESTONE NO. 2 - Completion of all Work except MSB/ATS/MTS																							
11	Receive and Install MSB/ATS/MTS	6 wks	Mon 12/2/24	Fri 1/10/25																															
12	Punchlist	2 wks	Mon 1/13/25	Fri 1/24/25																															
13	Testing and Commissioning	2 wks	Mon 1/27/25	Fri 2/7/25																															
14	PROJECT COMPLETION	0 days	Fri 2/7/25	Fri 2/7/25																												2/7	◆	PROJECT COMPLETION	

END OF DOCUMENT

SECTION 012100 - ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
- B. Types of allowances include the following:
 - 1. Lump-sum allowances.

1.3 DEFINITIONS

- A. Allowance is a quantity of work or dollar amount established in lieu of additional requirements, used to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor. If necessary, additional requirements will be issued by Change Order.

1.4 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection, or purchase and delivery, of each product or system described by an allowance must be completed by the Owner to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

1.5 ACTION SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances in the form specified for Change Orders.

1.6 INFORMATIONAL SUBMITTALS

- A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.

- B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.7 LUMP-SUM ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include rental fees, taxes, freight, and delivery to Project site.
- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.

1.8 ADJUSTMENT OF ALLOWANCES

- A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance
 - 1. Include installation costs in purchase amount only where indicated as part of the allowance.
 - 2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other markups.
 - 3. Submit substantiation of a change in scope of Work, if any, claimed in Change Orders related to unit-cost allowances.
 - 4. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.
- B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.
 - 1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of Work has changed from what could have been foreseen from information in the Contract Documents.
 - 2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

- A. Allowance No. 1: Lump-Sum Allowance: Include the sum of \$10,000 for temporary power as specified in Section 01 50 01 TEMPORARY POWER
 - 1. This allowance includes material cost, receiving, handling, and installation, and Contractor overhead and profit.

END OF SECTION 012100

SECTION 015001 – TEMPORARY POWER

PART 1 - GENERAL

1.1 SUMMARY

- A. This section includes requirements for providing temporary electrical power for construction at both Bldg #1 and Bldg #3. Also included is providing temporary power to keep all electrical equipment in all buildings up and running during the replacement of the main switchboards for Bldg #1 and Bldg #3.
- B. The maximum time allowed for a power shutdown is 4 hours. Contractor shall coordinate his work with the Owner and PG&E to minimize shutdown times.
- C. Coordinate the switchover with PG&E so that the power is switched off and switched on as needed.
- D. Provide all cable extensions needed.
- E. The new generators shall be used for temporary power since they will be delivered and installed long before the new switchboards will be delivered.
- F. The existing switchboards may be used for temporary power.
- G. The existing 300 kW generator currently used to back up the Data Center in Bldg #3 shall also be used for temporary power.
- H. Temporary power shall conform to all applicable requirements of authorities having jurisdiction and serving utility companies and agencies, including the following:
 - 1. Cal OSHA
 - 2. California Building Code (CBC) requirements
 - 3. Health and safety regulations
 - 4. Utility agency and company regulations
 - 5. Police, Fire Department and Rescue Squad rules
 - 6. Environmental protection regulations
- I. Contractor shall arrange for services and pay all fees and service charges for temporary power as necessary for the Work. Contractor shall apply for and obtain

permits for temporary utilities, including permits for temporary generators, from authorities having jurisdiction.

1.2 REFERENCES

- A. NFPA Document 241 - Building Construction and Demolition Activities
- B. ANSI A10 Series - Safety Requirements for Construction and Demolition
- C. NECA Electrical Design Library - Temporary Electrical Facilities
- D. Electrical Service: Comply with NEMA, NECA and UL standards and regulations for temporary electric service. Install service in compliance with California Electrical Code (CEC)

1.3 RELATED SECTIONS

- A. Section 262413 Switchboards
- B. Section 260622 Engine Generator

1.4 PROJECT CONDITIONS

- A. Conditions of Use: Keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Take necessary fire prevention measures. Do not overload facilities, or permit them to interfere with progress. Do not allow hazardous, dangerous, or unsanitary conditions, or public nuisances to develop or persist on the site.
- B. Temporary power conduit, raceways, fittings, conductors, panels, connections, disconnects, overcurrent protection, shall comply with requirements of the serving electric utility, California Electrical Code (CEC) and requirements of authorities having jurisdiction.
- C. Service Disruptions: When necessary for energizing and de-energizing temporary electric power systems, minimize disruption of service to those served. Schedule transfers at times convenient to SCCOE and to occupants. Shutdown times must be limited to 4 hours.

1.5 SUBMITTALS

- A. Submit proposed plan for providing temporary power for construction and for providing power during switchboard replacement.

1.6 MEASUREMENT AND PAYMENT

- A. Full compensation for furnishing all labor, materials, tools, equipment and conforming to the requirements of this section for providing temporary power shall be considered as included in the allowance paid for Temporary Power and no additional compensation shall be allowed therefore.

PART 2 - PRODUCTS

2.1 POWER DISTRIBUTION EQUIPMENT

- A. Provide conduit, cables, panels, and connectors, for the generators as needed.

PART 3 - EXECUTION

3.1 PROVIDING TEMPORARY POWER

- A. The first order of work is to order all electrical equipment needed for this project including the new switchboards and manual transfer switch. Submittals for all new electrical equipment shall be processed expeditiously. Obtain the proposed delivery date from the switchboard manufacturer to assist in planning for switchover from the existing switchboards to the new switchboards.
- B. The new Owner-Furnished, Contractor-Installed generators are expected to be delivered in November of 2023. The new Manual Transfer Switch (MTS) will take about 6 months. That equipment will be delivered before the new switchboards which has a lead time of approximately 1-year. Therefore, the generator, MTS and all possible electrical work shall be done before the new switchboards are delivered.
- C. Plan to do the replacement of the switchboards sequentially instead of concurrently.
- D. Conduct switchover work so that switchover for Bldg #1 is on one weekend and switchover for Bldg #3 is on another weekend.
 - 1. The Contractor shall prepare for the switchovers by doing all possible work before the switchovers, ensuring that the new generators are tested and ready to run and ensuring that all equipment and tools necessary for the work are available.
 - 2. PG&E can be scheduled to disconnect their service, say, close of business on Friday. The Contractor will disconnect and remove the existing switchboard and connect the existing feeders to the new generators for temporary power.
 - 3. Just before PG&E is scheduled to reconnect power the Contractor shall disconnect the temporary power and install the new switchboard and reconnect the existing feeders.
- E. Final startup and testing of the generator and other electrical equipment shall be done after the project is completed to confirm that the complete electrical system is operating as intended.

END OF SECTION 015001

SECTION 262413 - SWITCHBOARDS

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide materials, equipment, fabrication, delivery, and testing for two switchboards in San Jose, CA. One switchboard shall be located in the South Building #1 and the second switchboard shall be located in the North Building #3 on concrete floors. The switchboards shall be in conformity with the project drawings and specifications, applicable codes, standards, and authorities having jurisdiction, for the following:
1. Shall be designed to replace the existing main switchboard except that they will have provisions for both Utility Power and Generator Power.
 2. Shall have approximately the same footprint as the existing switchboard to facilitate reconnecting existing underground feeders. See project plans.
 3. Shall be rated 1200 A, 480 V and 42 KAIC minimum.
 4. Utility Metering Compartment: Fabricated compartment and section complying with utility company's requirements.
 5. Transfer Control between the main utility circuit breaker and the generator main circuit breaker.

1.2 REFERENCES

- A. American National Standards Institute (ANSI) C12 for Electricity Metering
- B. ANSI C57.13 Requirements for Instrument Transformers
- C. National Electrical Manufacturers' Association (NEMA) AB1 Molded Case Circuit Breakers
- D. NEMA PB2 Dead Front Distribution Switchboards
- E. Underwriters Laboratories (UL) UL891

1.3 RELATED SECTIONS

- A. Section 015001 Temporary Power
- B. Section 260622 Engine Generator

1.4 SUBMITTALS

- A. Product Data: Type of switchboard, overcurrent protective device, transient voltage suppression device, ground-fault protector, accessory, and component indicated. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, and finishes.
- B. Shop Drawings: Switchboard and related equipment.

1. Dimensioned plans, elevations, sections, and details, including required clearances and service space around equipment. Show tabulations of installed devices, equipment features, and ratings.
2. Wiring Diagrams: Power, signal, and control wiring.

- C. Field quality-control test reports.
- D. Operation and maintenance data.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NEMA PB 2, "Deadfront Distribution Switchboards."
- C. Comply with NFPA 70.

1.6 WARRANTY

- A. The manufacturer shall warrant products against defects in material and workmanship for 12 months from the date of commissioning. During the warranty period the manufacturer shall repair or replace defective products.

1.7 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. The Contractor shall coordinate with the Owner and Manufacturer in establishing delivery dates, receiving, unloading and storage of the Switchboards until it will be installed.
- B. The manufacturer is responsible for delivery of the Switchboards to the project site. The Owner and the Contractor shall inspect the Switchboards upon delivery.
- C. Provide protective coverings during construction.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
 1. Square D.
 2. Eaton Corporation.
 3. General Electric Co.; Electrical Distribution & Protection Div.
 4. Siemens Energy & Automation, Inc.
 5. Industrial Electrical Manufacturing (IEM).

- B. Front-Connected, Front-Accessible Switchboards: Fixed, individually mounted main device, panel-mounted branches, and sections rear aligned.
 - C. Nominal System Voltage: As shown on plans.
 - D. Main-Bus Continuous rating: As shown on plans.
 - E. Enclosure: Steel, NEMA 250, Type 1.
 - F. Enclosure Finish: Factory-applied finish in manufacturer's standard gray finish over a rust-inhibiting primer on treated metal surface.
 - G. Barriers: Between adjacent switchboard sections.
 - H. Utility Metering Compartment: Fabricated compartment and section complying with utility company's requirements. If separate vertical section is required for utility metering, match and align with basic switchboard.
 - I. Bus Transition and Incoming Pull Sections: Matched and aligned with basic switchboard.
 - J. Dead Front or Hinged Front Panels: Allow access to circuit breaker, metering, accessory, and blank compartments.
 - K. Pull Box on Top of Switchboard (if required for Generator Feeders):
 - 1. Adequate ventilation to maintain temperature in pull box within same limits as switchboard.
 - 2. Removable covers shall form top, front, and sides. Top covers at rear shall be easily removable for drilling and cutting.
 - 3. Cable supports shall be arranged to facilitate cabling and adequate to support cables indicated, including those for future installation.
 - L. Buses and Connections: Three phase, four wire, unless otherwise indicated. Aluminum or hard-drawn copper of 98 percent conductivity with feeder circuit-breaker line connections.
 - 1. Ground Bus: 1/4-by-2-inch- minimum-size, hard-drawn copper of 98 percent conductivity, equipped with pressure connectors for feeder and branch-circuit ground conductors.
 - 2. Contact Surfaces of Buses: Silver or Tin plated aluminum or copper.
 - 3. Main Phase Buses, Neutral Buses, and Equipment Ground Buses: Uniform capacity for entire length of switchboard's main and distribution sections. Provide for future extensions from one end.
 - M. Future Devices: Equip compartments with mounting brackets, supports, bus connections, and appurtenances at full rating of circuit-breaker compartment.
- 2.2 SURGE PROTECTION DEVICES (SPD)
- A. IEEE C62.41, integrally mounted, solid-state, parallel-connected, suppression and filtering modules.

- B. Surge Current Capacity:
 - 1. 250 KA per phase.
 - 2. 125 KA per mode.
- C. EMI/RFI Noise Attenuation Using 50-ohm Insertion Loss Test: 50 dB at 100 kHz.
- D. Maximum UL 1449 clamping levels shall not exceed 400 V, line to neutral and line to ground on 120/208 V systems and 800 V, line to neutral and line to ground on 277/480 V systems.
- E. Accessories:
 - 1. LED lights on failure of any surge diversion module.
 - 2. Six-digit transient-counter set to total transient surges that deviate from the sine-wave envelope by more than 125 V.

2.3 OVERCURRENT PROTECTIVE DEVICES

- A. Molded-Case Circuit Breaker: NEMA AB 3, with interrupting capacity to meet available fault currents.
 - 1. Thermal-Magnetic Circuit Breakers: Inverse time-current element for low-level overloads, and instantaneous magnetic trip element for short circuits. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
 - 2. Adjustable Instantaneous-Trip Circuit Breakers: Magnetic trip element with front-mounted, field-adjustable trip setting.
 - 3. Electronic trip-unit circuit breakers shall have RMS sensing, field-replaceable rating plug, and the following field-adjustable settings:
 - a. Instantaneous trip.
 - b. Long- and short-time pickup levels.
 - c. Ground-fault if shown on the Plans.
 - d. Arc Reduction Maintenance Switch (ARMS) where required.
 - 4. GFCI Circuit Breakers: Single- and two-pole configurations with 30-mA trip sensitivity.
- B. Molded-Case Circuit-Breaker Features and Accessories: Standard frame sizes, trip ratings, and number of poles.
 - 1. Lugs: Mechanical style, suitable for number, size, trip ratings, and conductor material.
 - 2. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads; Type HACR for heating, air-conditioning, and refrigerating equipment.

3. Ground-Fault Protection: Where shown on the Plans, integrally mounted relay and trip unit with adjustable pickup and time-delay settings, push-to-test feature, and ground-fault indicator.
4. Shunt Trip: Where shown on the Plans, 120-V trip coil energized from separate circuit, set to trip at 55 percent of rated voltage.

2.4 TRANSFER CONTROL

- A. Provide the switchboard with one utility main breaker and one generator main breaker. The transfer scheme shall be designed to automatically open the utility main breaker upon loss of utility power and transfer all loads to the generator main by closing the generator main breaker. The system shall be capable of transferring back automatically in an open transition mode based on the position of the auto retransfer selector switch.
- B. The logic for the automatic transfer scheme is provided by a Programmable Logic Controller (PLC). Microprocessor auto transfer controllers are also acceptable. Customer interface shall be via a touchscreen. The PLC utilizes breaker status, relay and switch inputs to determine the switchgear sequence of operation. The PLC outputs energize breaker close and trip circuits and touchscreen indicators.
- C. Manufacturer shall provide references and contact information of three previous projects that have used the transfer control system.

2.5 CONTROL POWER

- A. Control Circuits: 120 V, supplied through secondary disconnecting devices from control-power transformer.
- B. Control-Power Fuses: Primary and secondary fuses for current-limiting and overload protection of transformer and fuses for protection of control circuits.
- C. Control Wiring: Factory installed, with bundling, lacing, and protection included. Provide flexible conductors for No. 8 AWG and smaller, for conductors across hinges, and for conductors for interconnections between shipping units.

2.6 IDENTIFICATION

- A. Mimic Bus: Continuously integrated mimic bus factory applied to front of switchboard. Arrange in single-line diagram format, using symbols and letter designations consistent with final mimic-bus diagram. Coordinate mimic-bus segments with devices in switchboard sections to which they are applied. Produce a concise visual presentation of principal switchboard components and connections.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Schedule installation of the Switchboards during weekend or holidays as described in Section 015001 - Temporary Power, to minimize the disruption of normal operation of the facility.
- B. Install switchboard and accessories according to NEMA PB 2.1 and NECA 40.

- C. Install and anchor switchboard level on concrete floor per manufacturer's instructions and as shown on the Drawings.
- D. Temporary Lifting Provisions: Remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from switchboard units and components.
- E. Operating Instructions: Frame and mount the printed basic operating instructions for switchboard, including control and key interlocking sequences and emergency procedures. Fabricate frame of finished wood or metal and cover instructions with clear acrylic plastic. Mount on front of switchboards.
- F. Install overcurrent protective devices, transfer control switch, transient voltage suppression devices, and instrumentation.
 - 1. Set field-adjustable switches and circuit-breaker trip ranges.
- G. Install equipment in accordance with reviewed product data, final shop drawings, manufacturer's written instructions and recommendations, and as indicated on the Drawings E-5, E-6, E-8 and E-9.

3.2 IDENTIFICATION

- A. Identify field-installed conductors, interconnecting wiring, and components; provide warning signs as specified in Division 26 Section "General Electrical Requirements."
- B. Every circuit shall be legibly identified as to its clear, evident and specific purpose or use. The identification shall include an approved degree of detail that allows each circuit to be distinguished from all others. Spares shall also be described accordingly. Label all circuit breakers with laminated plastic nameplates with stainless steel screws. The circuit breaker nameplate shall provide the load, size. See nameplate schedule attached.
- C. Switchboard Nameplates: Label each switchboard compartment with engraved metal or laminated-plastic nameplate mounted with corrosion-resistant screws. Switchboards shall be permanently marked to indicate each device or equipment where power originates.
- D. Warning labels and nameplates shall be present at access locations to advise personnel of possible hazards. The SWBD shall be marked in accordance with UL, NFPA 70 NEC, NFPA 70E, and other applicable standards.

3.3 FIELD QUALITY CONTROL AND COMMISSIONING

- A. Startup, Testing, Training and power system study shall be performed by the switchboard manufacturer.
- B. Functional testing, commissioning, and first parameter adjusting shall be carried out by a factory-trained manufacturer's field service representative. The manufacturer's field service technician shall provide all material, equipment, labor and technical supervision to perform inspection, testing and adjustments to ensure equipment is installed, adjusted, and tested in accordance with the manufacturer's recommendations and is ready for operation. The manufacturer's field service technician shall replace damaged or malfunctioning equipment and report to the Engineer any discrepancies or issues with the installation.

- C. Prepare for acceptance tests as follows:
 - 1. Test insulation resistance for each switchboard bus, component, connecting supply, feeder, and control circuit.
 - 2. Test continuity of each circuit.
- D. Perform field tests and inspections and prepare test reports:
 - 1. Perform each electrical test and visual and mechanical inspection stated in appropriate sections of NETA ATS.
 - 2. Provide certificate of proper installation and operation.
 - 3. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
 - 4. Provide 4 hours of on-site training in the operation of the switchboards including the operation of the Programmed Transfer Control equipment.

END OF SECTION 262413

ATTACHMENT

CIRCUIT BREAKER NAMEPLATE SCHEDULE

TAG #	TYPE	SIZE	INSCRIPTION
1	PLATE	1" X 4"	UTILITY BRKR
			Bldg #1 1000A/3P
2	PLATE	1" X 4"	GEN BRKR
			Bldg #1 1000A/3P
3	PLATE	3/4" X 4"	BUS BARN 100A/3P
4	PLATE	3/4" X 4"	KITCHEN 400A/3P
5	PLATE	3/4" X 4"	BLDG #1 1000A/3P
6	PLATE	3/4" X 4"	BLDG #2 400A/3P
7	PLATE	3/4" X 4"	PNL "SH" 100A/3P
1	PLATE	1" X 4"	UTILITY BRKR
			Bldg #3 1000A/3P
2	PLATE	1" X 4"	GEN BRKR
			Bldg #3 1000A/3P
3	PLATE	3/4" X 4"	ELEV #1 70A/3P
4	PLATE	3/4" X 4"	ELEV #2 90A/3P
5	PLATE	3/4" X 4"	FILTER "H1" 400A/3P
6	PLATE	3/4" X 4"	FILTER "H2" 400A/3P
7	PLATE	3/4" X 4"	FILTER "H3" 400A/3P
8	PLATE	3/4" X 4"	UDH 400A/3P
9	PLATE	3/4" X 4"	MCC 800A/3P
10	PLATE	3/4" X 4"	MTS 600A/3P

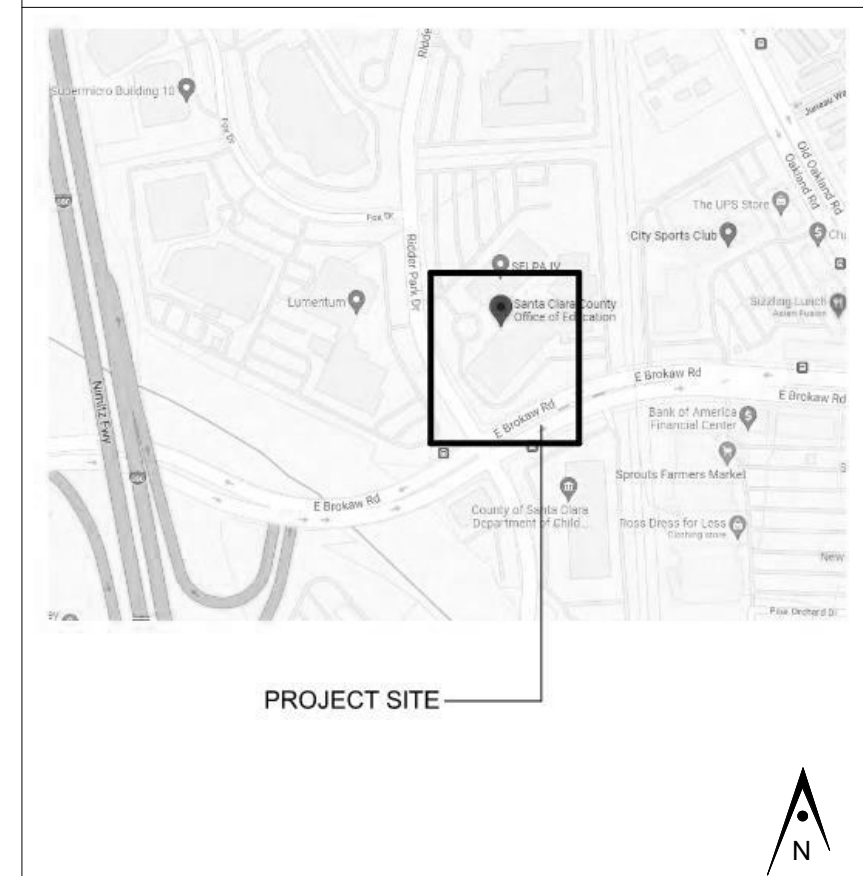
SCCOE BACKUP GENERATOR BUILDING SUBMITTAL

1290 Ridder Park Dr, San Jose



394-A Umbarger Rd
San Jose, CA 95111
Phone 408.224.9890
Fax 408.224.9891
www.ArtikA3.com

VICINITY MAP



PROJECT DIRECTORY

ARCHITECT	ARTiK Art & Architecture 394-A Umbarger Road San Jose, CA 95111 (408) 224-9890
CLIENT	SANTA CLARA COUNTY OFFICE OF EDUCATION 1290 RIDDER PARK DRIVE MC 254 SANTA CLARA, CA 95131-2304 (408) 453-6884
CIVIL ENGINEER	UNDERWOOD & ROSENBLUM, INC. 1630 OAKLAND ROAD, SUITE A114 SAN JOSE, CA 95131 (408) 453-1222
LANDSCAPE ENGINEER	ANLA ASSOCIATES, INC. 1213 LINCOLN AVE, SUITE 211 SAN JOSE, CA 95125 (408) 292-2196
STRUCTURAL ENGINEER	DUQUETTE ENGINEERING 1171 HOMESTEAD ROAD, SUITE 275 SANTA CLARA, CA 95050 408-615-9200
ELECTRICAL ENGINEER	AEC ALLIANCE ENGINEERING CONSULTANTS, INC. 4701 PATRICK HENRY DRIVE BUILDING 10 SANTA CLARA, CA 95054 (408) 970-9888

GENERAL NOTES

- Existing construction data shown on the drawings was obtained from available drawings. The contractor shall verify all existing conditions and shall notify the architect of all exceptions before proceeding with the work.
- See architectural drawings for layout dimensions and elevations except where indicated otherwise.
- All discrepancies between drawings shall be clarified with the architect prior to proceeding with work.
- In the event that certain features of the construction are not fully shown or detailed on the drawings or called for in the general notes, then their construction shall be of the same character as similar conditions that are shown or called for.
- Dimensions, elevations, and existing conditions shall be checked and verified on the job site by each contractor. Errors, omissions or discrepancies shall be reported to the architect before work begins or supplies are ordered.
- Verify electrical, mechanical, fire alarm, telephone and security requirements before construction begins.
- Work shall be performed in conformance with local, county, state and federal codes, laws, and regulations applicable to this work.
- Any item identified to be demolished, removed or relocated is to be completely removed, including but not limited to any concealed items (pipes, curbs, framing, beams, fasteners, etc.). All items within a demolished area that must be rerouted in order to maintain continuity shall be done so in accordance with appropriate specification sections in the project manual at no additional cost. If no specification can be found within the project manual, then continuity shall be maintained by current standard methods for construction but not lesser in quality than existing. Any area of demolition or removal shall be left in a completely finished condition as outlined in the project manual.
- All case work to be attached to walls and floors as indicated on drawings. If no specific detail is referenced, use the details referenced for similar conditions on other case work.
- Food handling facilities shall comply with local/ county health department requirements.
- On Architectural, Civil, Landscape, and Plumbing sections, materials and their installation shall comply with applicable codes, standards, and manufacturer's recommendations.
- Per CBC 11B-104.1, All dimensions are subject to conventional industry tolerances except where the requirement is stated as a range with specific minimum and maximum end points.

GOVERNING CODES

LIST OF 2019 CALIFORNIA CODE OF REGULATIONS (C.C.R.) as of January 1, 2019:

2019	California Administrative Code (CAC), Part 1, Title 24 C.C.R.
2019	California Building Code (CBC) Part 2, Title 24 C.C.R. (2015 International Building Code with 2019 California Amendments)
2019	California Electric Code (CEC), Part 3, Title 24 C.C.R. (2014 National Electric Code with 2019 California Amendments)
2019	California Mechanical Code (CMC), Part 4, Title 24 C.C.R. (2015 Uniform Mechanical Code with 2019 California Amendments)
2019	California Plumbing Code (CPC), Part 5, Title 24 C.C.R. (2015 Uniform Plumbing Code with 2019 California Amendments)
2019	California Energy Code (CEnc), Part 6, Title 24 C.C.R.
2019	California Historical Building Code (CHBC), Part 8, Title 24 C.C.R. (2019 California Amendments)
2019	California Fire Code (CFC), Part 9, Title 24 C.C.R. (2015 International Fire Code with 2019 California Amendments)
2019	California Existing Building Code (CEBC), Part 10, Title 24 C.C.R. (2015 International Existing Building Code and 2019 California Amendments)
2019	2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 C.C.R.
2019	California Referenced Standards Code, Part 12, Title 24 C.C.R. Title-19 (C.C.R.), Public Safety, State Fire Marshal Regulations.
2013	ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators

SYMBOL LEGEND

ROOM IDENTIFICATION

CLASSROOM
Room Name: 1
Room Number: A101
Room Area: 450 SF

GRID IDENTIFICATION
1

BUILDING SECTION
1
A7.01

DEMOLITION KEY NOTE NUMBER
<01>

KEY NOTE NUMBER
01

PARTITION TYPE
A

CASEWORK IDENTIFICATION
36" x 34" x 100" x 24"

CEILING HEIGHT
+ 10'-0"

WINDOW TYPE
A

DOOR IDENTIFICATION
A101.1

CONTROL POINT

REVISION
1

NORTH ARROW

ABBREVIATIONS

A.C.	ASPHALT CONCRETE	GYP.	GYPSUM
ACCESS.	ACCESSIBLE	H.B.	HOSE BIB
A.F.F.	ABOVE FINISH FLOOR	I.D.	INSIDE DIAMETER
ARCH.	ARCHITECTURAL	IN.	INCH
ASSEM.	ASSEMBLY	INFO.	INFORMATION
BD.	BOARD	INSUL.	INSULATION
BLDG.	BUILDING	LAV.	LAVATORY
BLK.	BLOCK	MAX.	MAXIMUM
BLKG.	BLOCKING	MTL.	METAL
CAB.	CABINET	MFR.	MANUFACTURER
C.B.	CATCH BASIN	M.H.	MAN HOLE
CEM.	CEMENT	MIN.	MINIMUM
CER.	CERAMIC	MISC.	MISCELLANEOUS
C.I.	CAST IRON	(N)	NEW
C.J.	CONTROL JOINT	N/A	NOT APPLICABLE
CL	CENTER LINE	N.I.C.	NOT IN CONTRACT
CLR.	CLEAR	N.T.S.	NOT TO SCALE
CLKG.	CAULKING	O.C.	ON CENTER
COL.	COLUMN	O.D.	OUTSIDE DIAMETER
CONC.	CONCRETE	OFCl	OWNER FURNISHED CONTRACTOR INSTALLED
CONF.	CONFERENCE	OPP.	OPPOSITE
CONN.	CONNECTION	PAV.	PAVING
CONT.	CONTINUOUS	P.D.F.	POWDER DRIVEN FASTENER
CORR.	CORRIDOR	PL.	PLATE
C.P.F.	CEMENT PLASTER FINISH SYSTEM	P.T.D.	PAPER TOWEL DISPENSER
	COUNTERSINK	RAD.	RADIUS
CTS.K.	CENTER	REF.	REFRIGERATOR
CTR.	CENTER	RM.	ROOM
C.W.	COLD WATER	R.D.	ROOF DRAIN
DBL.	DOUBLE	REQ.	REQUIRED
D.F.	DRINKING FOUNTAIN	R.C.P.	REFLECTED CEILING PLAN
DET.	DETAIL	RVL.	REVEAL
DIA.	DIAMETER	R.W.L.	RAIN WATER LEADER
DIM.	DIMENSION	S.A.D.	SEE ARCHITECTURAL DRAWINGS
DN.	DOWN	S.C.	SOLID CORE
DR.	DOOR	S.D.	SOAP DISPENSER
DS.	DOWNSPOUT	SEC.	SECTION
DWG.	DRAWING	SHT.	SQUARE FOOT
EA.	EACH	SIM	SHEET SIMILAR
E.J.	EXPANSION JOINT	S.M.S.	SHEET METAL SCREW
ELEV.	ELEVATION	SPEC.	SPECIFICATION
ELEC.	ELECTRICAL	STD.	STANDARD
EQ.	EQUAL	STL.	STEEL
(E)	EXISTING	STRUCT.	STRUCTURAL
EXT.	EXTERIOR	T.C.	TOP OF CURB
EXP.	EXPANSION	TEL	TELEPHONE
F.A.	FIRE ALARM	T.O.P.	TOP OF PARAPET
F.D.	FLOOR DRAIN	T.P.	TOP OF PAVEMENT
F.DN.	FOUNDATION	T.P.D.	TOILET PAPER DISPENSER
F.E.	FIRE EXTINGUISHER	T.W.	TOP OF WALL
F.H.	FIRE HYDRANT	TYP	TYPICAL
FHWS	FLAT HEAD WOOD SCREW	U.O.N.	UNLESS OTHERWISE NOTED
FIN.	FINISH	V.I.F.	VERIFY IN FIELD
F.F.	FINISH FLOOR	W/	WITH
F.P.	FIRE PROTECTION	W.C.	WATER CLOSET
FT.	FOOT	WD.	WOOD
GA.	GAUGE	W/O	WITHOUT
GALV.	GALVANIZED	W.P.	WATERPROOF
G.B.	GRAB BAR	W.R.	WATER RESISTANT
G.I.	GALVANIZED IRON	W.S.	WEATHER STRIPPING
G.W.B.	GYPSUM WALL BOARD		

SCOPE OF WORK

INSTALLATION OF TWO 600 KW BACKUP GENERATORS - S1-SOUTH GENERATOR, CONCRETE PAD, 10' WALL ENCLOSURE, AND S-2 NORTH GENERATOR, CONCRETE PAD, 8' TALL FENCE ENCLOSURE, MITS CONCRETE PAD AND ASSOCIATED ELECTRICAL, LANDSCAPE AND CIVIL SITE WORK.

PRIOR DEVELOPMENT PERMITS

PREVIOUS PERMITS: C80-07-197, T81-11-170, H88-10-174, AD95-791, AD96-021, GP97-4-4, PP00-025, AD13-522 SP21-032

FOR OFFICIAL USE ONLY

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- A0.01 TITLE SHEET
 - A1.10 OVERALL SITE PLAN
 - A1.11 DEMOLITION SITE PLAN
 - A2.10 ENLARGED SITE PLAN - SOUTH GENERATOR
 - A2.11 ENLARGED SITE PLAN - NORTH GENERATOR
 - A8.01 EXTERIOR ELEVATIONS - SOUTH GENERATOR
 - A8.02 EXTERIOR ELEVATIONS - NORTH GENERATOR
 - A12.11 SITE DETAILS
 - A12.12 SITE DETAILS
 - A12.32 EXTERIOR DETAILS

- STRUCTURAL**
- S0.0 STRUCTURAL SPECS, ABBREVIATIONS SYMBOLS LEGEND TABLE OF CONTENTS
 - S1.0 GENERAL PLANS DETAILS

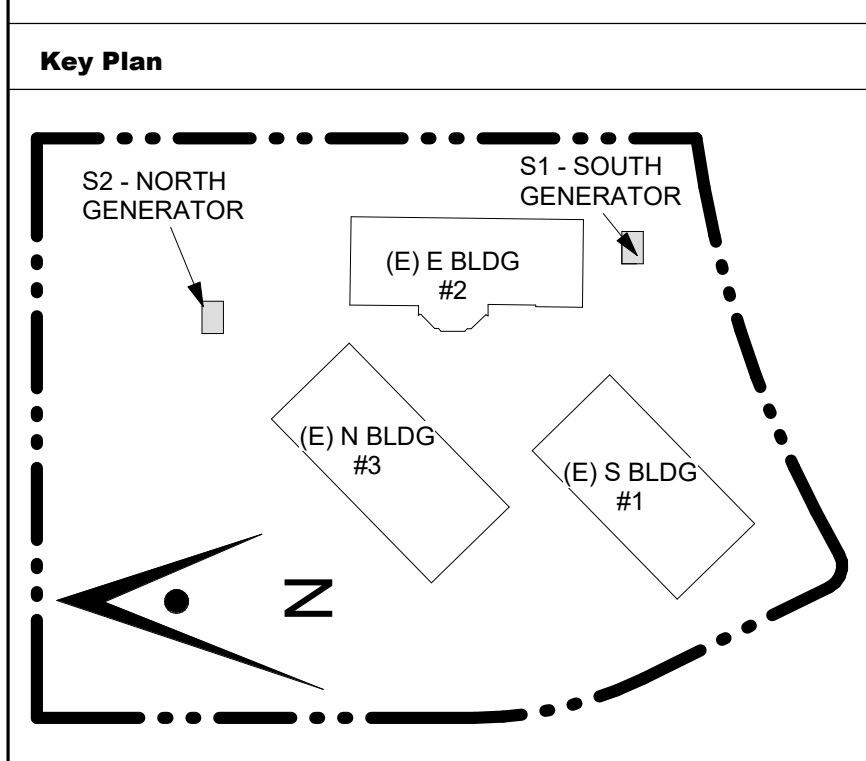
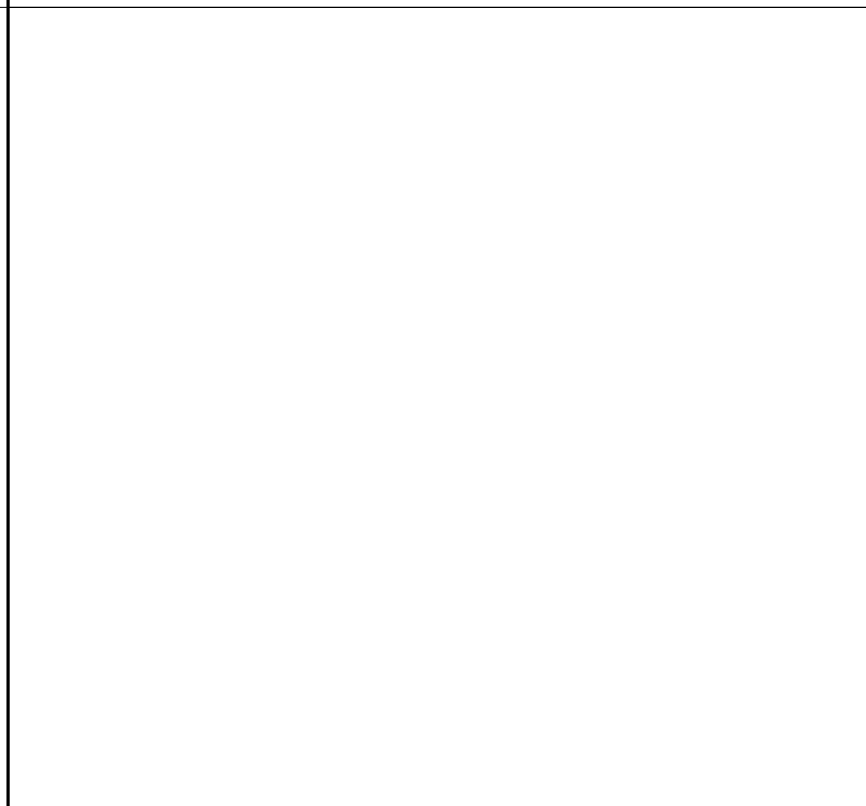
- CIVIL**
- C0 COVER SHEET
 - C1 ENLARGED PLAN N BUILDING DEMOLITION PLAN
 - C1.1 ENLARGED PLAN S BUILDING DEMOLITION PLAN
 - C2 ENLARGED PLAN N BUILDING GRADING AND UTILITY PLAN
 - C2.1 ENLARGED PLAN S BUILDING GRADING AND UTILITY PLAN
 - C3 DETAILS

- LANDSCAPE**
- L1.1 IRRIGATION PLAN
 - L1.2 IRRIGATION DETAILS
 - L1.3 SOUTH BAY RECYCLED WATER IRRIGATION NOTES AND DETAILS
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 - L2.2 TREE MITIGATION PLAN
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- ELECTRICAL**
- E-1 ELECTRICAL GENERAL
 - E-2 ELECTRICAL SITE PLAN
 - E-3 ENLARGED PLAN - SOUTH BUILDING SERVICE
 - E-4 ENLARGED PLAN - NORTH BUILDING SERVICE
 - E-5 SINGLE LINE DIAGRAM BLDG #1
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 - E-7 GENERATOR DETAILS
 - E-8 SWITCHBOARD DETAIL - BLDG#1
 - E-9 SWITCHBOARD DETAIL - BLDG#3

E-10 PG&E SHORT CIRCUIT LETTERS

CONSULTANTS' STAMP



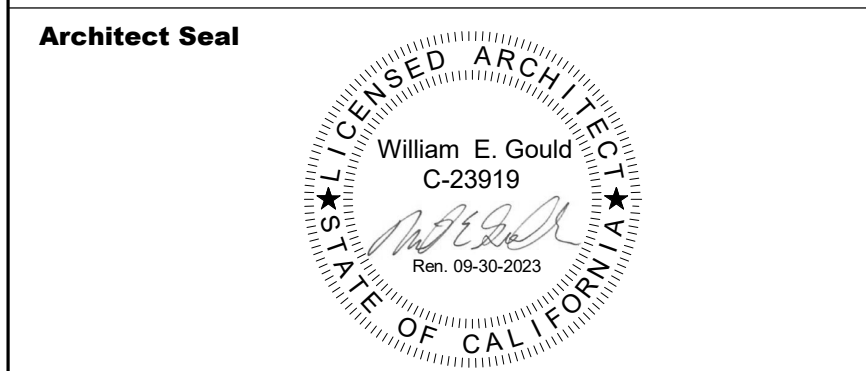
Project Title

SCCOE BACKUP GENERATOR
1290 Ridder Park Dr, San Jose
SANTA CLARA COUNTY OFFICE OF EDUCATION

No.	Description	Date
	BUILDING SUBMITTAL	07/11/22
	BUILDING RESUBMITTAL	02/07/23
1	ADDENDUM 1	08/22/23

Drawing Title

TITLE SHEET



DSA File No.	Drawing No.
DSA Application No.	A0.01
Date	
Project Number	

PLANNING DATA

APN#: 237-03-039
 ZONING: IP
 GENERAL PLAN 2040: Industrial Park
 TOTAL SITE ACREAGE: 9.00 (see attached Assessor's map)

BUILDING DATA

EXISTING BUILDINGS:

(E) BUILDING 2 - NORTH BUILDING - NO ADDED AREA OR CHANGE OF OCCUPANCY

TYPE OF CONSTRUCTION: II-1HR (SPRINKLERED)
 FIRE PROTECTION: SPRINKLERED
 OCCUPANCY TYPE: B, A-3, E
 TOTAL BUILDING AREA: 84,514 SF
 NUMBER OF STORIES: 3 STORIES
 EXISTING HEIGHT: 50'-0"

(E) BUILDING 2 - SOUTH BUILDING - NO ADDED AREA OR CHANGE OF OCCUPANCY

TYPE OF CONSTRUCTION: II-1HR (SPRINKLERED)
 FIRE PROTECTION: SPRINKLERED
 OCCUPANCY TYPE: B
 TOTAL BUILDING AREA: 83,672 SF
 NUMBER OF STORIES: 3 STORIES
 EXISTING HEIGHT: 50'-0"

(E) BUILDING 3 - EAST BUILDING - NO ADDED AREA OR CHANGE OF OCCUPANCY

TYPE OF CONSTRUCTION: V-N (SPRINKLERED)
 FIRE PROTECTION: SPRINKLERED
 OCCUPANCY TYPE: B
 TOTAL BUILDING AREA: 24,448 SF
 NUMBER OF STORIES: 1 STORY
 EXISTING HEIGHT:

NEW SITE WORK:

S1 - SOUTH GENERATOR ENCLOSURE

OCCUPANCY TYPE: U
 HEIGHT: 8'-0"
 TOTAL AREA - 500 SF
 OUTDOOR IMPROVEMENTS - 1,000 SF

S2 - NORTH GENERATOR ENCLOSURE

OCCUPANCY TYPE: U
 HEIGHT: 8'-8"
 TOTAL AREA - 400 SF
 OUTDOOR IMPROVEMENTS - 2,300 SF

PARKING ANALYSIS

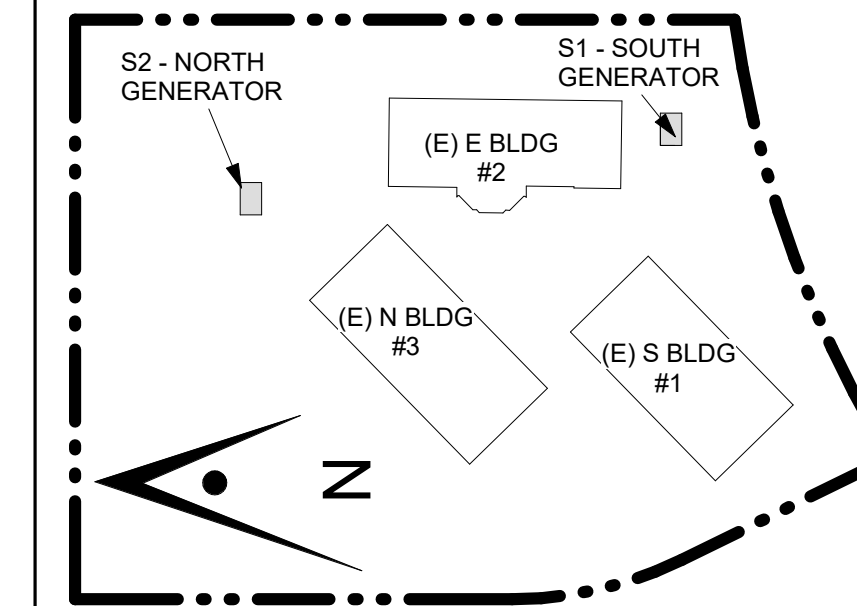
(E) PARKING LOT	
TOTAL PARKING SPACES	647 PARKING SPACES
SOUTH AND NORTH GENERATOR	5 PARKING SPACES REMOVED
TOTAL PARKING SPACES PROVIDED	642 PARKING SPACES
ACCESSIBLE SPACES PROVIDED	13 (9 (E) ACCESSIBLE; 4(E) ACCESSIBLE VAN)
(E) OFFICES FLOOR AREA NET SQUARE FOOTAGE	173,278 SF
	590 PARKING SPACES REQUIRED
(E) WAREHOUSE FLOOR AREA GROSS SQUARE FOOTAGE	23,850 SF
	5 PARKING SPACES REQUIRED
TOTAL VEHICLE PARKING SPACES REQUIRED	595 PARKING SPACES



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CONSULTANT'S STAMP

Key Plan



Project Title

SCCOE BACKUP GENERATOR

1290 Ridder Park Dr, San Jose

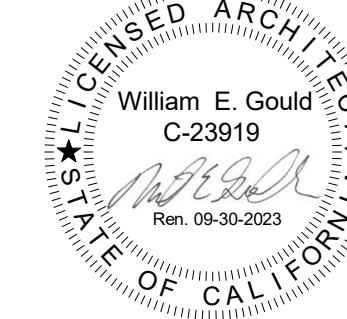
SANTA CLARA COUNTY OFFICE OF EDUCATION

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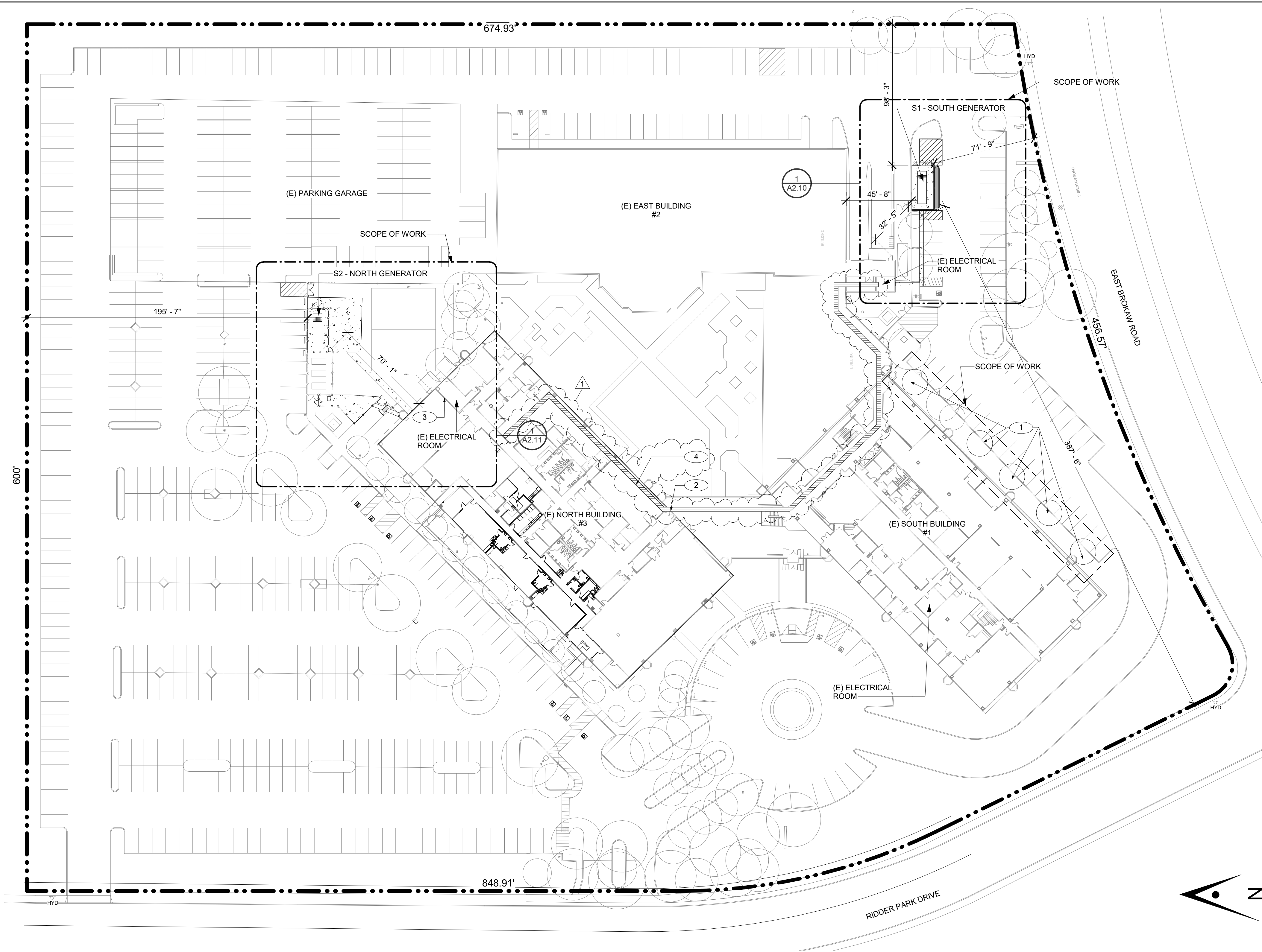
Drawing Title

OVERALL SITE PLAN

Architect Seal



File No.	Drawing No.
Application No.	A1.10
Date	
Project Number	



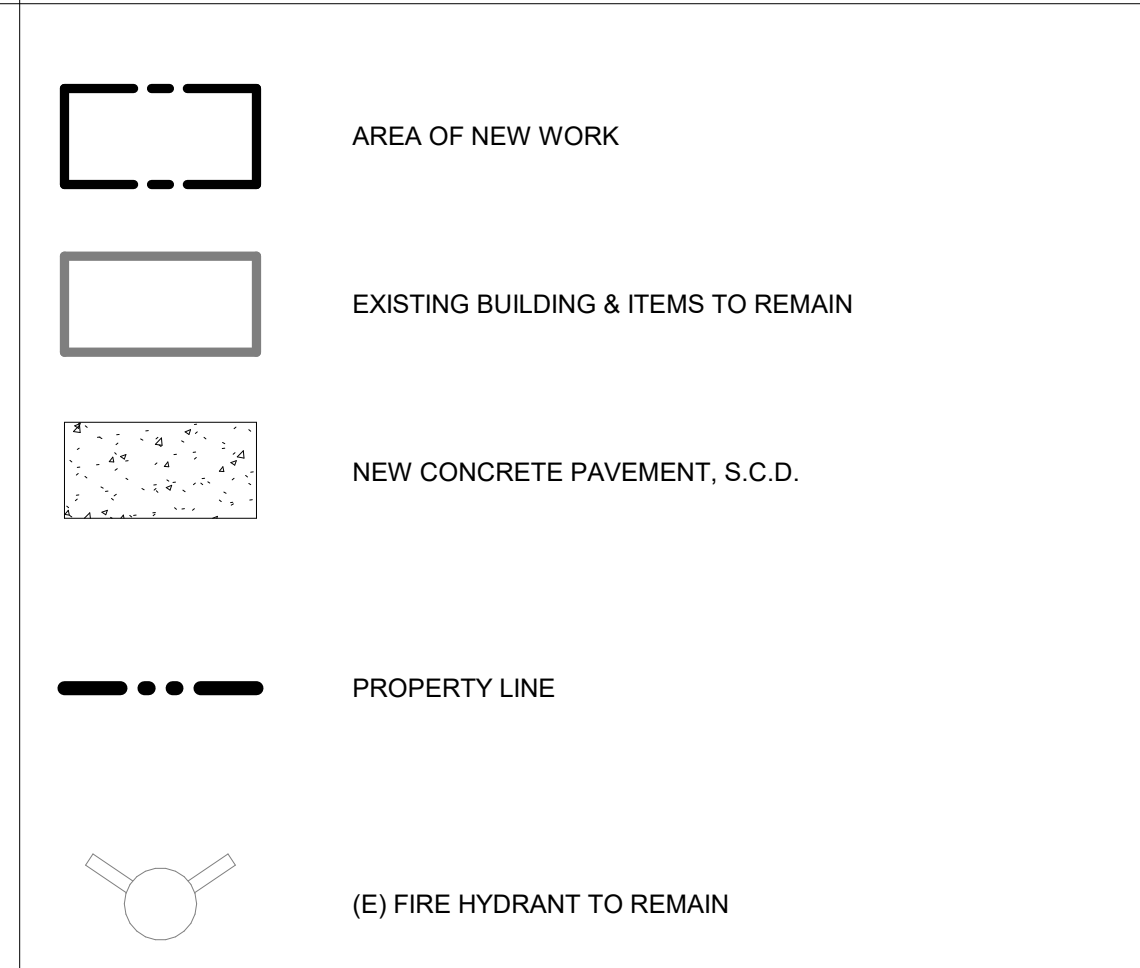
1 OVERALL SITE PLAN 1" = 40'-0"

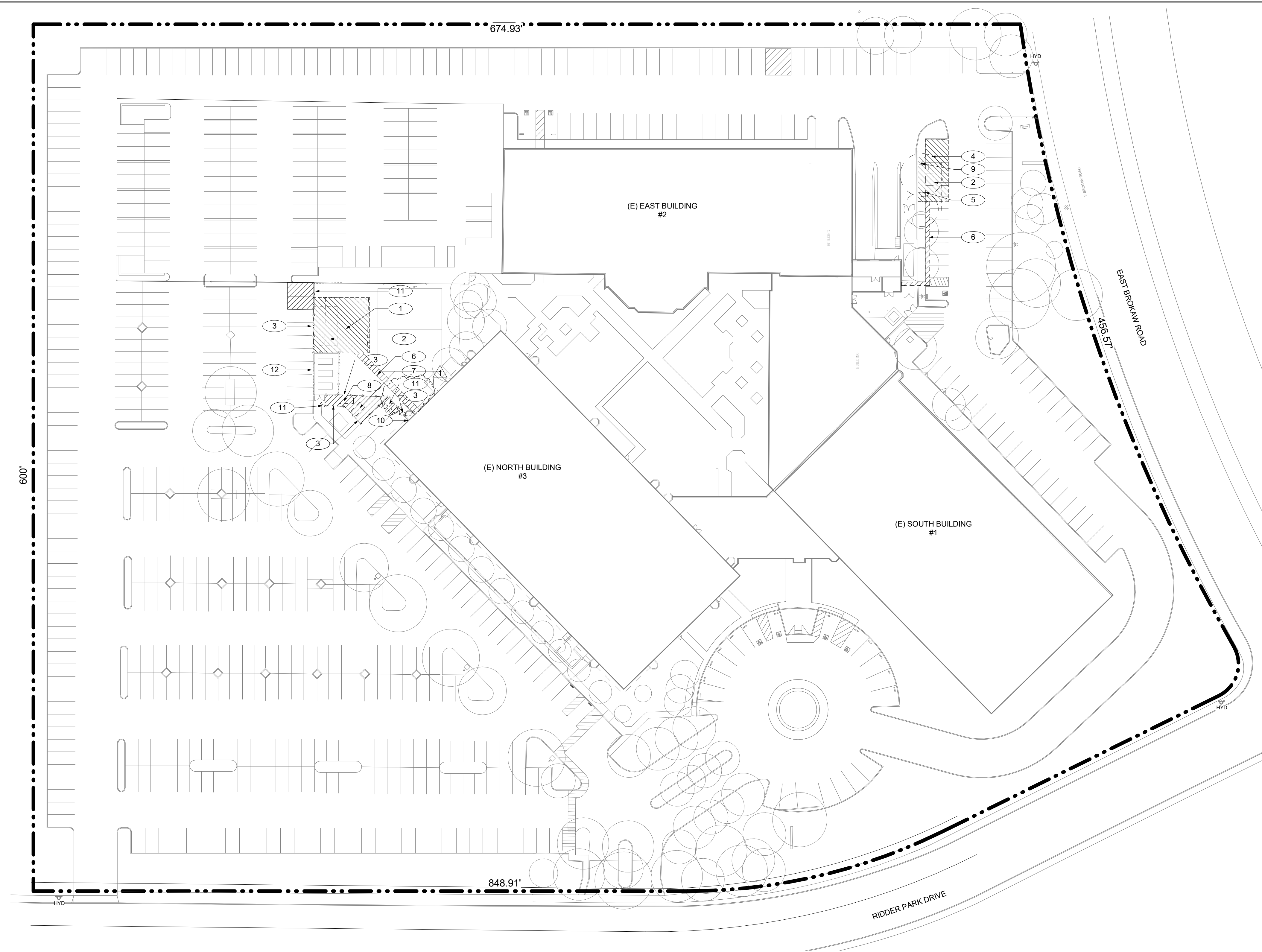
GENERAL NOTES

KEYNOTES

- 1 (N) TREE. REFER TO LANDSCAPE DRAWINGS & SPECIFICATION, TYP TO ALL
- 2 2 HOUR FIRE RATED WALL, S.E.D
- 3 1 HOUR FIRE RATED WALL, S.E.D
- 4 REPAIR BROKEN CEILING TILES, WALLS AFTER NEW CONDUIT INSTALLATION, S.E.D.

GRAPHIC KEY



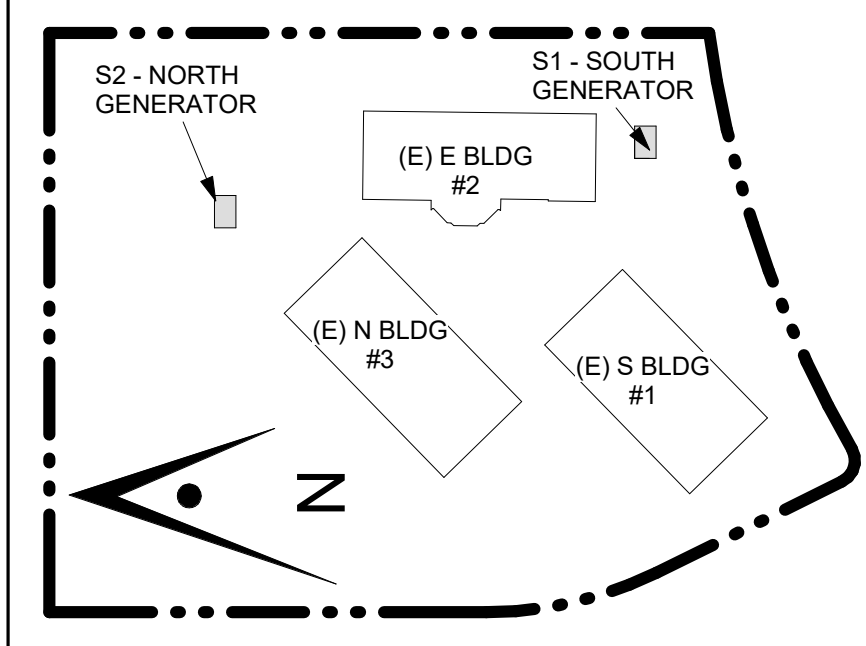


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1	ADDENDUM 1	08/22/23

1 OVERALL SITE PLAN DEMOLITION Copy 1

1" = 40'-0"

GENERAL NOTES

- TYP. (E) TO REMAIN UNLESS OTHERWISE NOTED. PROTECT ALL WORK TO BE RE-INSTALLED. ANY DAMAGE SHALL BE REPAIRED/REPLACED TO OWNER'S SATISFACTION.
- SEE CIVIL, AND LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
- DEMOLITION PLAN IS DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY EXTENT OF DEMOLITION REQUIRED TO ACCOMMODATE CONSTRUCTION EVEN IF NOT SPECIFICALLY INDICATED ON ON THE DEMOLITION DRAWINGS.
- CONTRACTOR TO PROTECT ALL (E) SITE FIXTURES FROM DAMAGE INCLUDING BUT NOT LIMITED TO; STRUCTURES, UTILITIES, TREES, LANDSCAPING, AND SITE WORK.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ACTUAL CONDITIONS PRIOR TO COMMENCEMENT OF ACTUAL WORK.

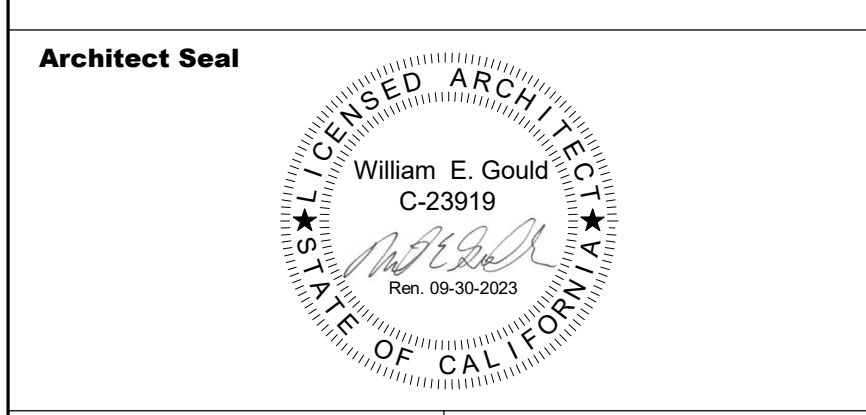
KEYNOTES

- DEMO (E) PLANTERS AND GARDEN AND PREPARE TO RECEIVE NEW CONCRETE PAVING/ CONCRETE PAD. SEE NEW PLAN FOR MORE INFORMATION.
- DEMO (E) CONCRETE/ AC TO RECEIVE (N) CONCRETE PAD. SEE NEW PLAN FOR MORE INFORMATION.
- DEMO (E) FENCE. SEE NEW PLAN FOR MORE INFORMATION
- DEMO (E) TREE. S.L.D. FOR MORE INFORMATION
- DEMO (E) CURB AND PLANTING
- (N) TRENCH, SAWCUT (E) AC FOR ELECTRICAL CONDUITS. SEE CIVIL AND ELECTRICAL DRAWINGS.
- DEMO (E) GENERATOR, CONCRETE PAD AND ALL RELATED ACCESSORIES, S.E.D. PREPARE TO RECEIVE NEW CONCRETE PAVING
- DEMO (E) FUEL TANK, CONCRETE PAD AND ALL RELATED ACCESSORIES, S.E.D. PREPARE TO RECEIVE NEW CONCRETE PAVING
- (E) LIGHT POLE TO REMAIN. PROTECT DURING CONSTRUCTION. SEE NEW PLAN AND ELECTRICAL DRAWINGS
- DEMO (E) ELECTRICAL CONDUIT AND EQUIPMENT FOR DEMOLISHED GENERATOR.
- DEMO (E) GATE. SEE NEW PLANS FOR MORE INFORMATION.
- (E) CHAINLINK FENCE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION

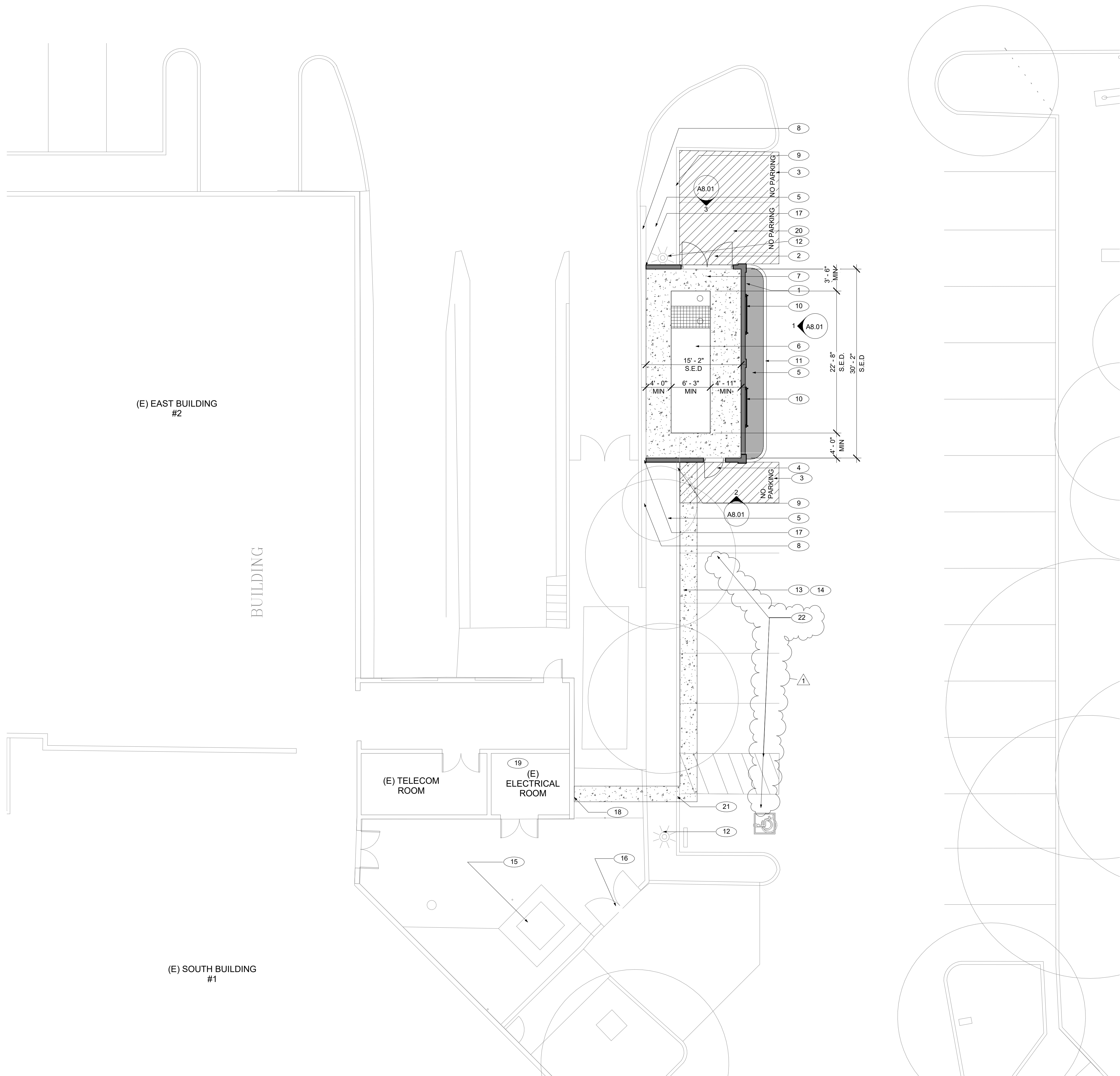
GRAPHIC KEY

- (E) ITEMS TO REMAIN
- (E) ELEMENTS TO BE REMOVED/DEMOLISHED
- EXTENTS OF DEMOLITION, REFER TO LANDSCAPE, CIVIL AND ELECTRICAL PLANS FOR MORE INFORMATION

DEMOLITION SITE PLAN



File No.	Drawing No.
Application No.	A1.11
Date	
Project Number	



GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. EXISTING OVERALL SITE FEATURES ARE SHOWN FOR REFERENCE ONLY. EXACT SIZES AND LOCATIONS MAY NOT BE TRUE TO SCALE.
- CONTRACTOR TO PROTECT ALL (E) SITE FEATURES TO REMAIN FROM DAMAGE INCLUDING BUT NOT LIMITED TO, STRUCTURES, UTILITIES, TREES, LANDSCAPING AND SITE WORK.
- REFER TO TEMPORARY TREE AND PLANT PROTECTION SPECIFICATION AND DETAIL A14.3 FOR ALL EXISTING-TO-REMAIN TREES. S.L.D
- CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO ALL PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION. S.L.D

KEYNOTES

- (N) 10' HIGH STUCCO WALL, SEE A12.32
- 8' WIDE X 7' HIGH ORNAMENTAL GATE. SEE DETAIL 2/A12.11
- NO PARKING IN 12" HIGH LETTERS AND NEW STRIPING
- 3' WIDE X 7' HIGH ORNAMENTAL GATE. SEE DETAIL 2/A12.11
- (N) PLANTER, REFER TO LANDSCAPE DRAWINGS & SPECIFICATION, TYP TO ALL
- GENERATOR, S.E.D
- NEW CONCRETE PAD, S.S.D.
- (E) 8' TALL WALL. PROTECT DURING CONSTRUCTION
- (E) CURB. PROTECT DURING CONSTRUCTION
- (N) MODULAR PLANT TRELIS. BASIS OF DESIGN VERTIGREEN BY TOURNERSOL
- (N) CURB RAMP. S.C.D.
- (E) LIGHT POLE TO REMAIN. PROTECT DURING CONSTRUCTION. SEE NEW PLAN AND ELECTRICAL DRAWINGS
- PATCH AND REPAIR PAVING TO MATCH EXISTING ADJACENT. S.C.D
- (N) AC PAVING, TYP. S.C.D.
- (E) PG&E TRANSFORMER TO REMAIN. PROTECT DURING CONSTRUCTION.
- (E) GATE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION
- SEE STRUCTURAL DRAWINGS FOR WALL ATTACHMENT
- PATCH AND REPAIR (E) WALL TO MATCH ADJACENT EXISTING CEMENT PLASTER, SEE A12.32.
- (N) ELECTRICAL EQUIPMENT. S.E.D
- (N) AC OVERLAY, S.C.D.
- S.S.D. FOR ELEC CONDUITS FOUNDATION PENETRATION DETAIL.
- NEW STRIPING

GRAPHIC KEY

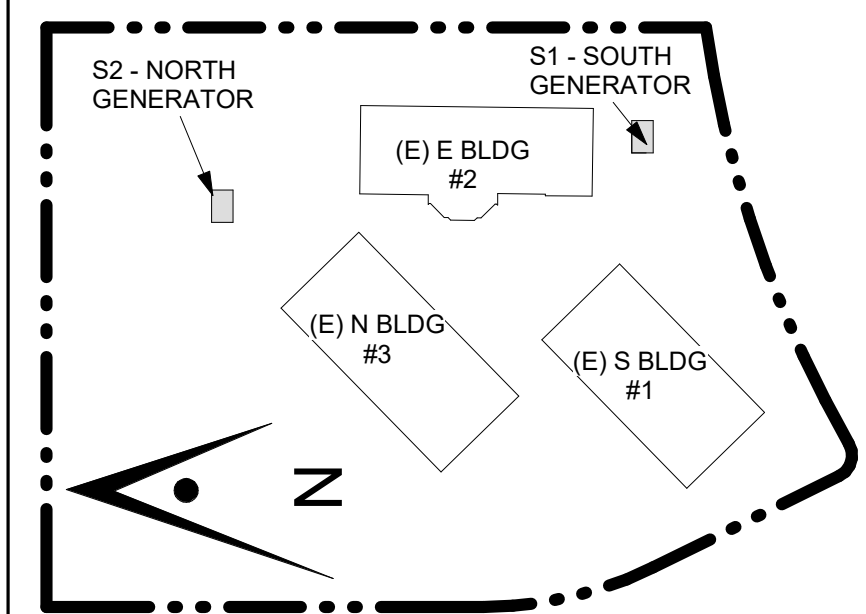
- EXISTING ITEMS
- NEW ITEMS
- NEW CONSTRUCTION WALL
- NEW CONCRETE PAVEMENT, S.C.D.



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CONSULTANT'S STAMP

Key Plan



Project Title

SCCOE BACKUP GENERATOR

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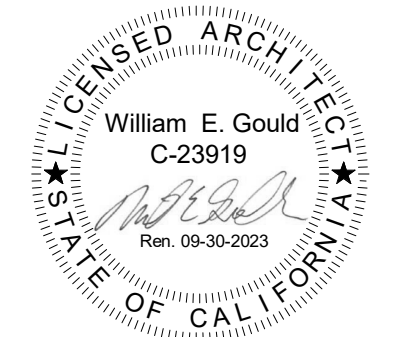
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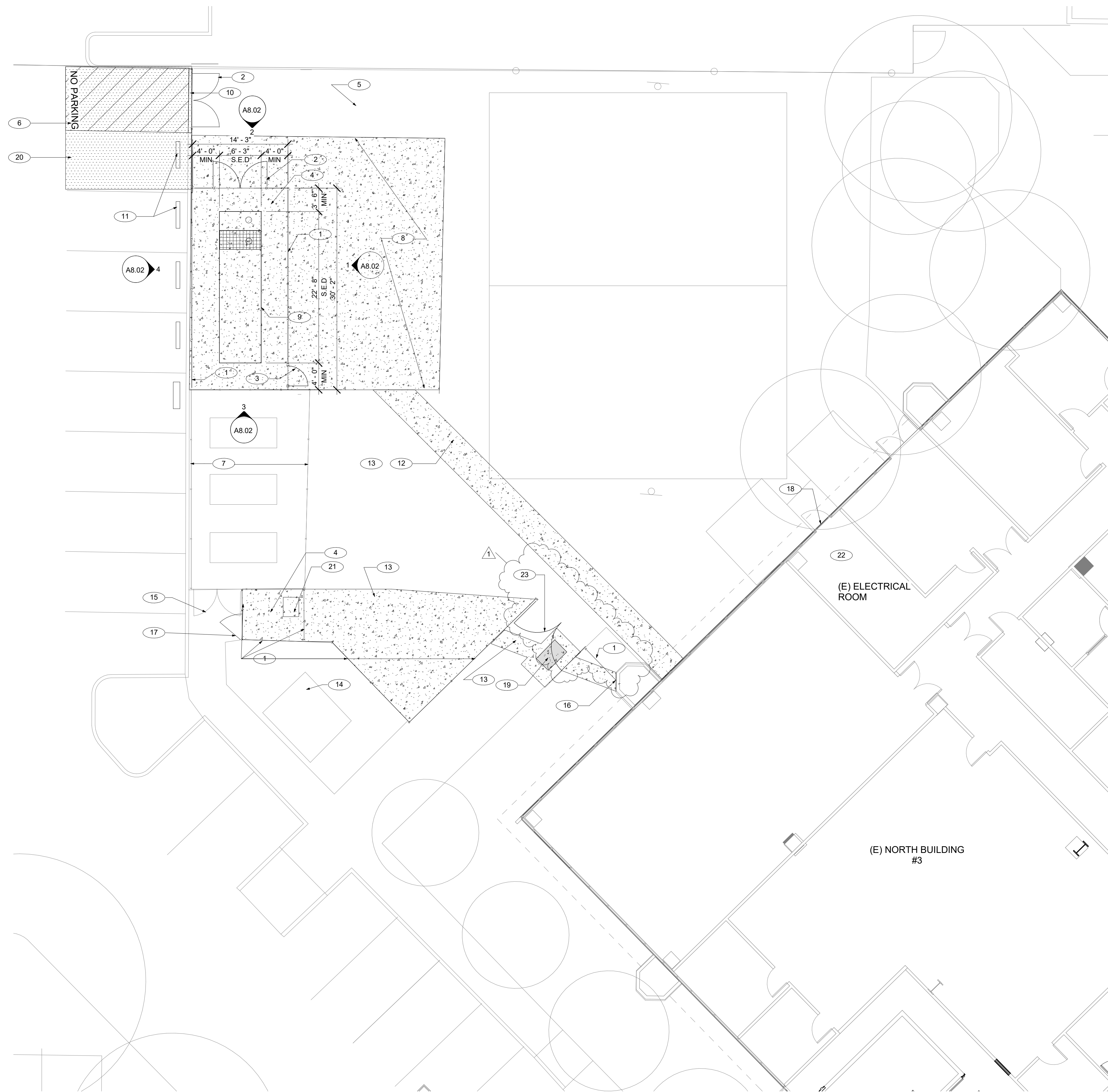
Drawing Title

ENLARGED SITE PLAN - SOUTH GENERATOR

Architect Seal



File No.	Drawing No.
Application No.	A2.10
Date	
Project Number	




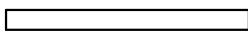


GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. EXISTING OVERALL SITE FEATURES ARE SHOWN FOR REFERENCE ONLY. EXACT SIZES AND LOCATIONS MAY NOT BE TRUE TO SCALE.
2. CONTRACTOR TO PROTECT ALL (E) SITE FEATURES TO REMAIN FROM DAMAGE INCLUDING BUT NOT LIMITED TO, STRUCTURES, UTILITIES, TREES, LANDSCAPING AND SITE WORK.
3. REFER TO TEMPORARY TREE AND PLANT PROTECTION SPECIFICATION AND DETAIL A14.3 FOR ALL EXISTING-TO-REMAIN TREES, S.L.D.
4. CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO ALL PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION. S.L.D.

KEYNOTES

- 1 (N) 8'-8" TALL GALVANIZED CHAINLINK FENCE WITH LIGHT BROWN PRIVACY SLATS. COLOR AND HEIGHT TO MATCH ADJACENT EXISTING. 4/A12.12
- 2 8' WIDE X 8'-8" HIGH GALVANIZED CHAINLINK GATE WITH LIGHT BROWN PRIVACY SLATS. COLOR AND HEIGHT TO MATCH EXISTING. SEE DETAIL 6/A12.12
- 3 3' WIDE X 8'-8" HIGH GALVANIZED CHAINLINK GATE WITH LIGHT BROWN PRIVACY SLATS. SEE DETAIL 5/A12.12
- 4 NEW CONCRETE PAD, S.S.D.
- 5 (E) CONCRETE PAVING TO REMAIN, TYP.
- 6 NO PARKING IN 12" HIGH LETTERS AND NEW STRIPING
- 7 (E) CHAINLINK FENCE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION
- 8 (N) CONCRETE PAVING
- 9 GENERATOR, S.E.D.
- 10 (N) FLUSH CURB, S.C.D.
- 11 (N) WHEEL STOP, TYP. S.C.D.
- 12 PATCH AND REPAIR PAVING TO MATCH EXISTING ADJACENT. S.C.D.
- 13 (N) CONCRETE PAVING, TYP. S.C.D.
- 14 (E) PG&E TRANSFORMER TO REMAIN. PROTECT DURING CONSTRUCTION.
- 15 (E) GATE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION
- 16 PATCH THE WALLS AFTER REMOVING OF (E) PANELS AND CONDUITS, MATCH (N) DRIVET WITH EXISTING. SEE A12.32.
- 17 4' WIDE X 8'-8" HIGH GALVANIZED CHAINLINK GATE WITH LIGHT BROWN PRIVACY SLATS. SEE DETAIL 5/A12.12
- 18 REMOVE & RE-INSTALL (E) STOREFRONT FOR ELECTRICAL EQUIPMENT INSTALLATION. COORDINATE WITH ELECTRICAL DRAWINGS.
- 19 (N) PULL BOX, SEE CIVIL AND ELECTRICAL DWG.
- 20 (N) AC OVERLAY TO FLUSH WITH CURB. S.C.D.
- 21 (N) MTS AND CONCRETE PAD. S.E.D. & S.S.D.
- 22 (N) ELECTRICAL EQUIPMENT. S.E.D.
- 23 (N) 10' WIDE X 8'-8" HIGH CHAINLINK GATE. SEE DETAIL 9/A12.12

GRAPHIC KEY

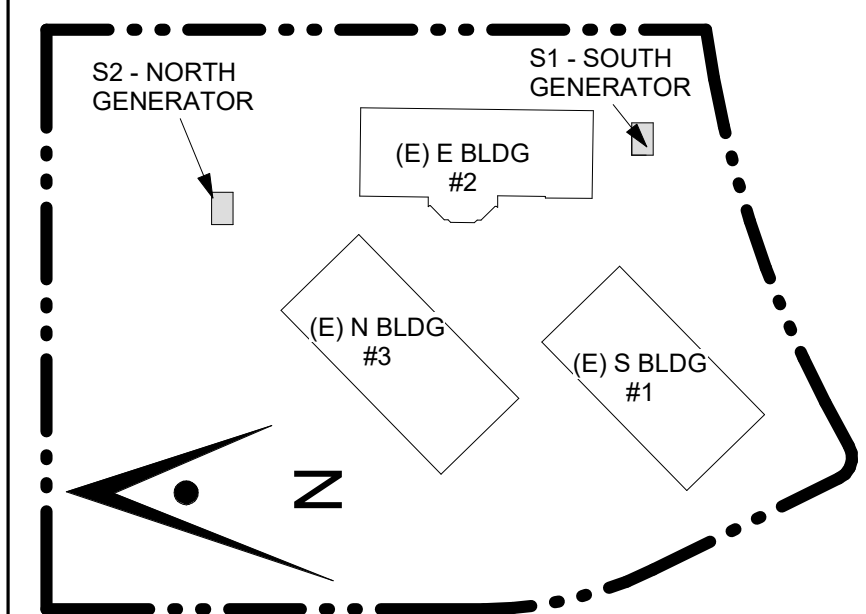
-  EXISTING ITEMS
-  NEW ITEMS
-  NEW CONSTRUCTION WALL
-  NEW CONCRETE PAVEMENT, S.C.D.

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394-A Umbarger Rd
San Jose, CA 95111
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www.Artika3.com

CONSULTANT'S STAMP

Key Plan



Project Title

SCCOE BACKUP GENERATOR

1290 Ridder Park Dr, San Jose

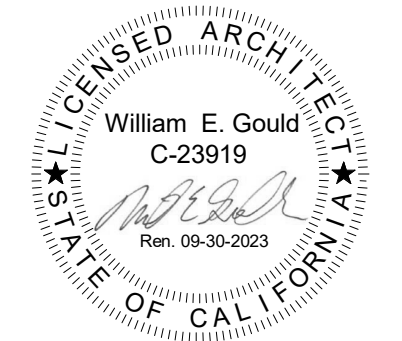
SANTA CLARA COUNTY OFFICE OF EDUCATION

No.	Description	Date
	BUILDING SUBMITTAL	07/11/22
	BUILDING RESUBMITTAL	02/07/23
1	ADDENDUM 1	08/22/23

Drawing Title

ENLARGED SITE PLAN - NORTH GENERATOR

Architect Seal



File No.	Drawing No.
Application No.	A2.11
Date	
Project Number	

CONSULTANT'S STAMP

Key Plan

Project Title

SCCOE BACKUP GENERATOR

1290 Ridder Park Dr, San Jose

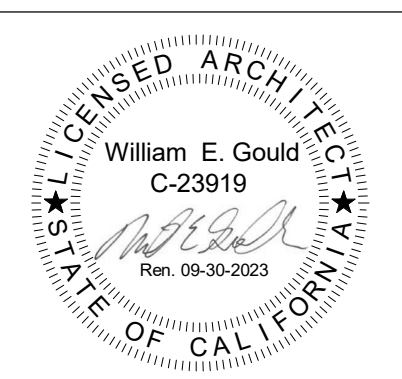
SANTA CLARA COUNTY OFFICE OF EDUCATION

No.	Description	Date
	BUILDING SUBMITTAL	07/11/22

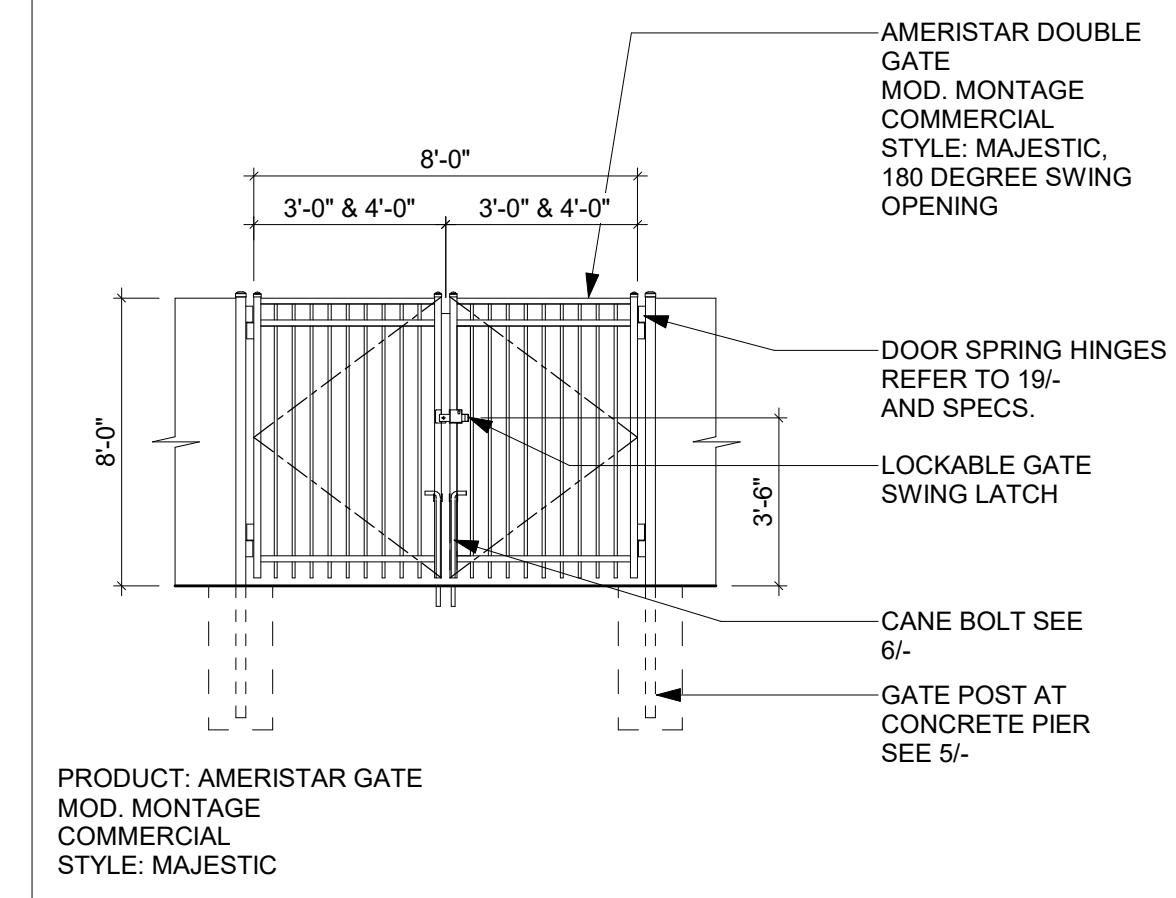
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SITE DETAILS

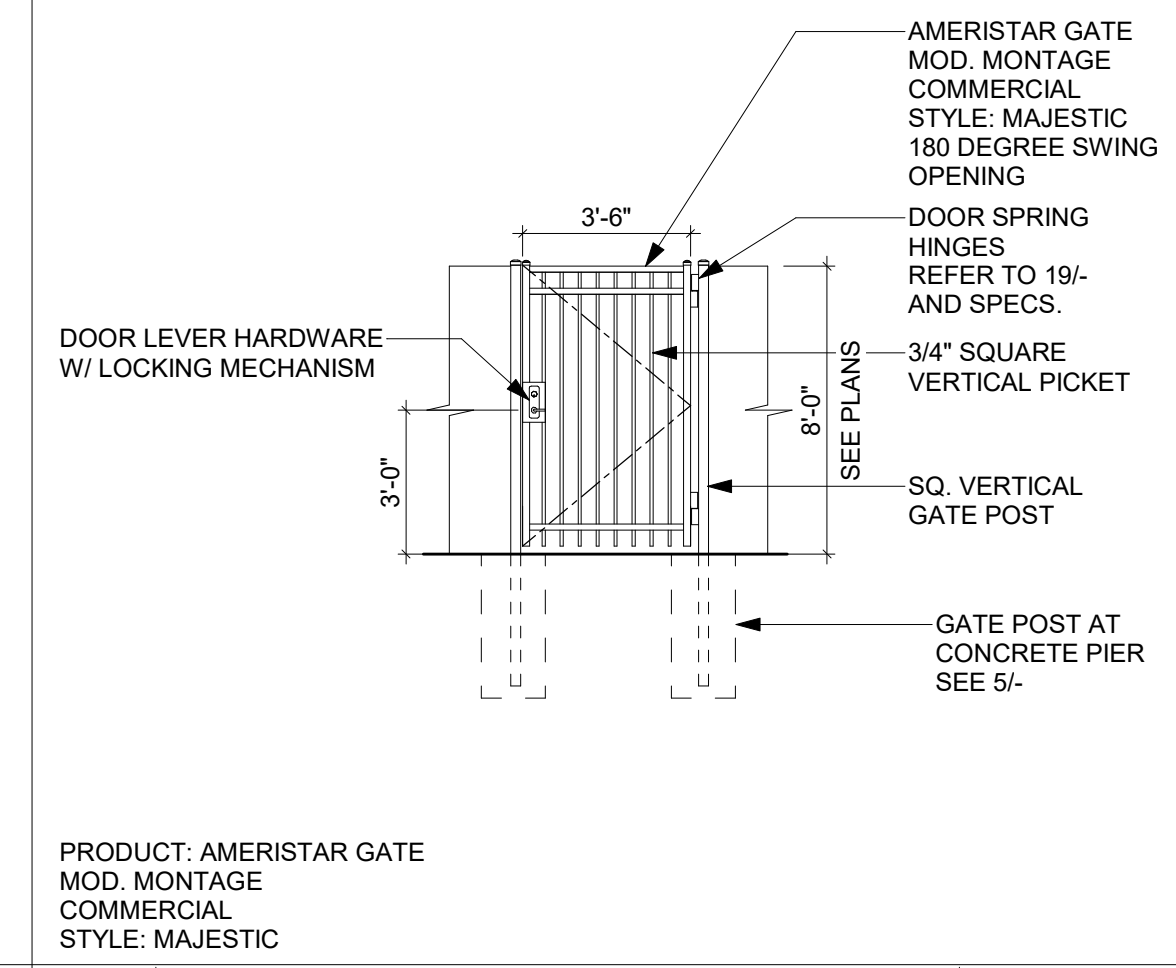
Architect Seal



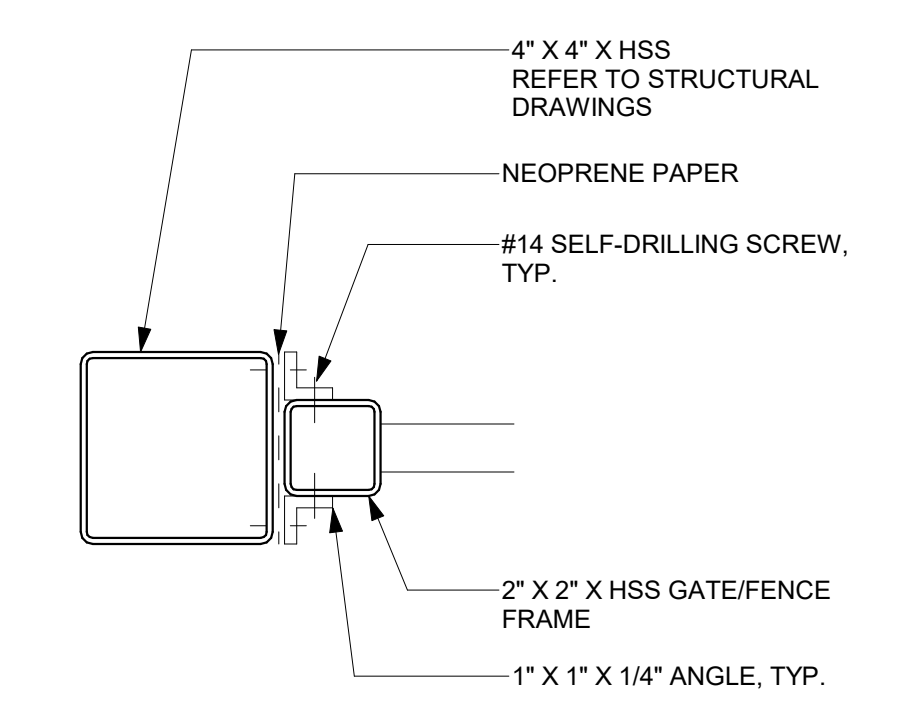
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Application No. 01-119657	A12.11
Date 7/11/22	
Project Number 06451	



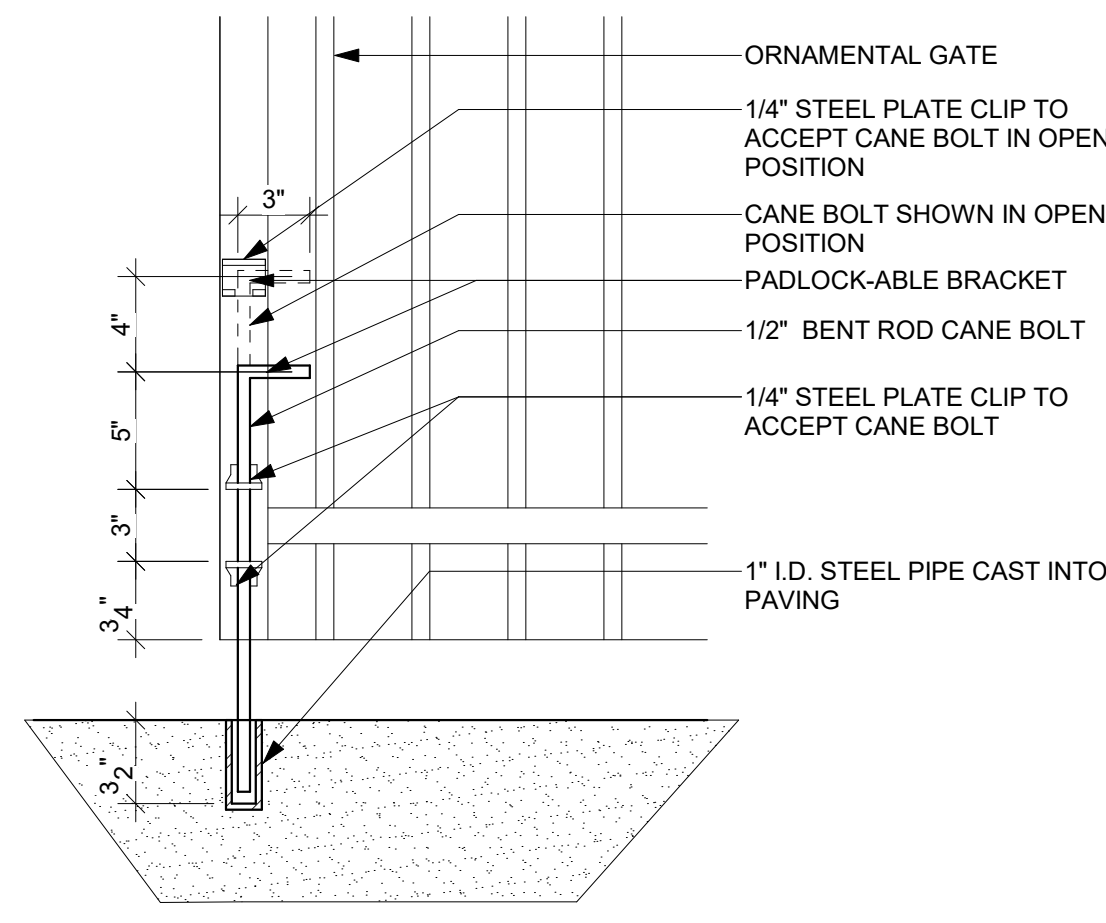
4 ORNAMENTAL DOUBLE SERVICE GATE 1/4" = 1'-0"



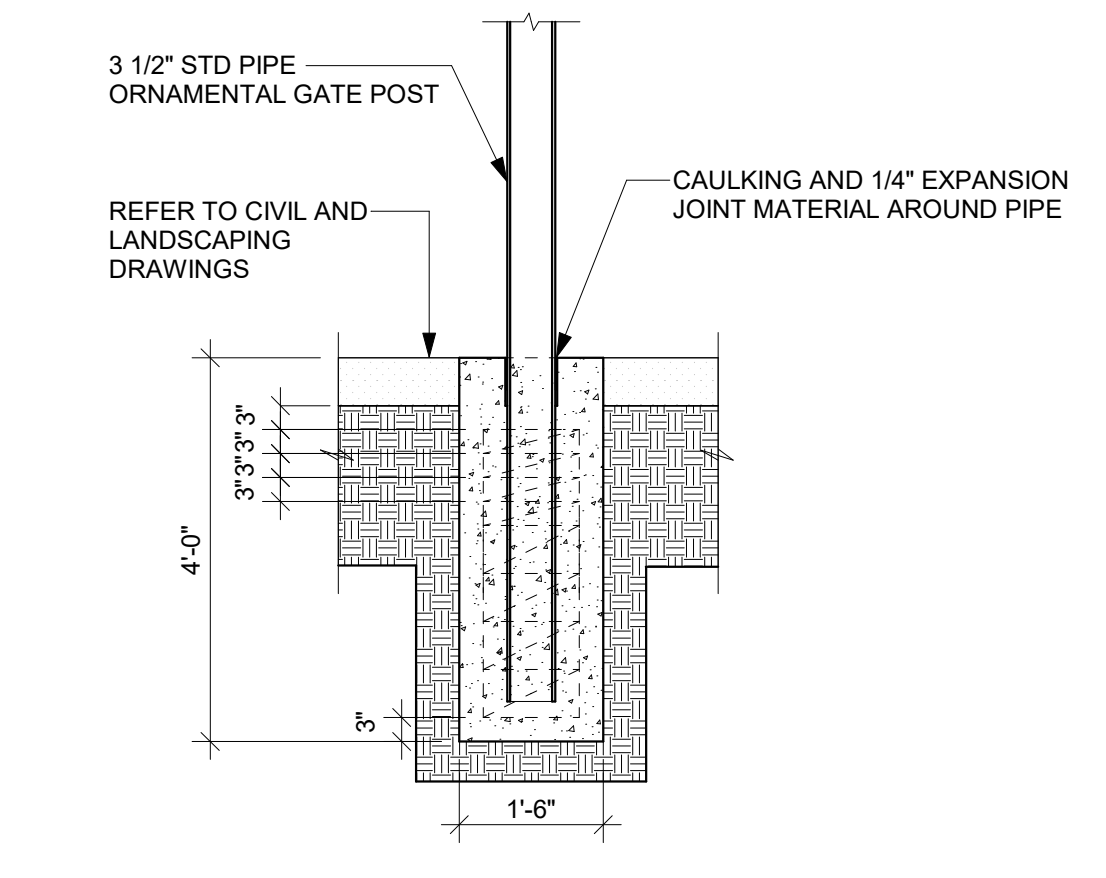
3 ORNAMENTAL SINGLE SERVICE GATE 1/4" = 1'-0"



7 FENCE AND GATE FRAME 3" = 1'-0"



6 GATE CANE BOLT 1 1/2" = 1'-0"



5 GATE POST DETAIL 1/2" = 1'-0"

CONSULTANT'S STAMP

Key Plan

Project Title

SCCOE BACKUP GENERATOR

1290 Ridder Park Dr, San Jose

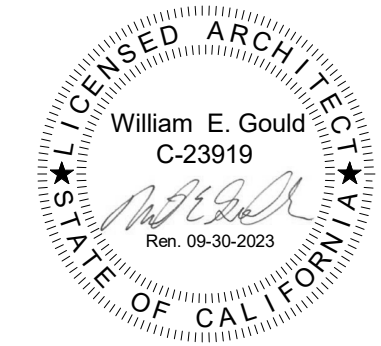
SANTA CLARA COUNTY OFFICE OF EDUCATION

No.	Description	Date
	BUILDING SUBMITTAL	07/11/22
1	ADDENDUM 1	08/22/23

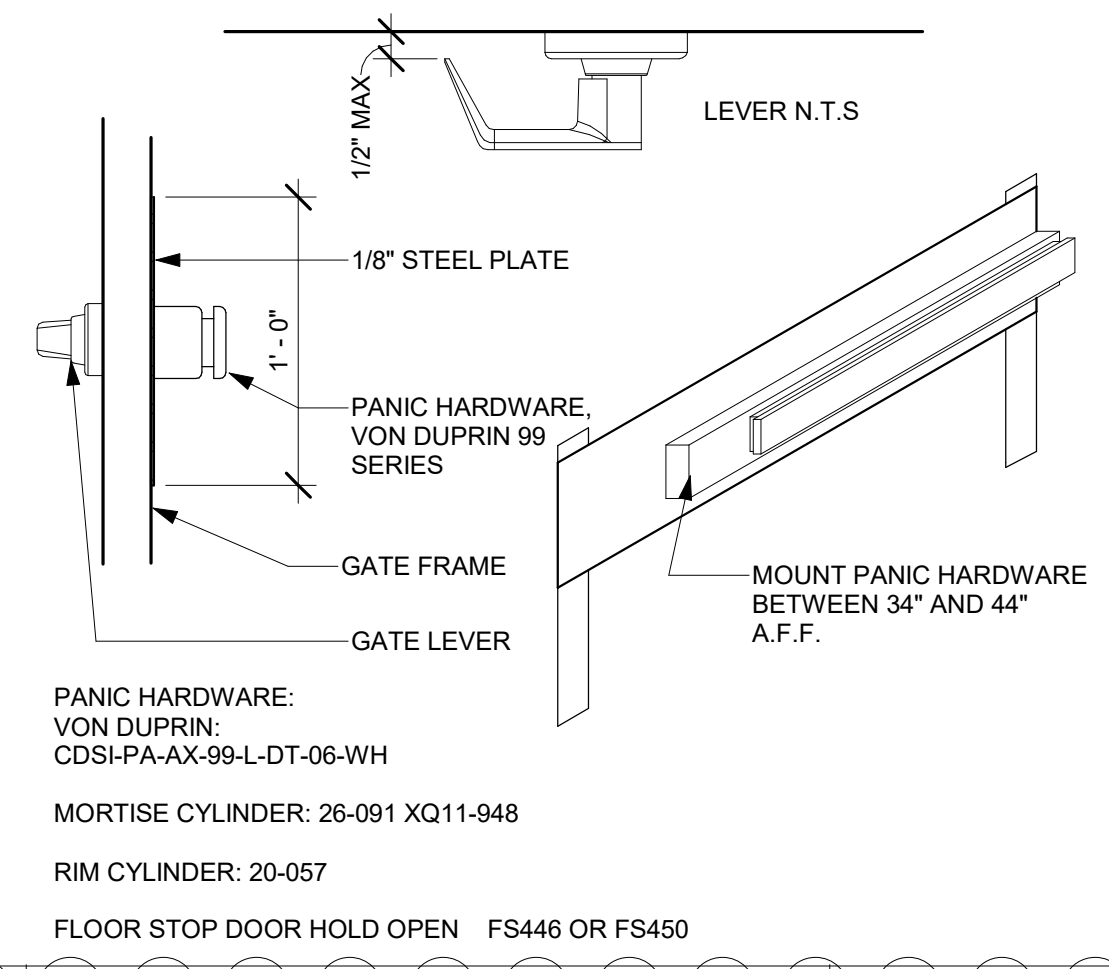
Drawing Title

SITE DETAILS

Architect Seal



File No.	Drawing No.
Application No.	A12.12
Date	
Project Number	

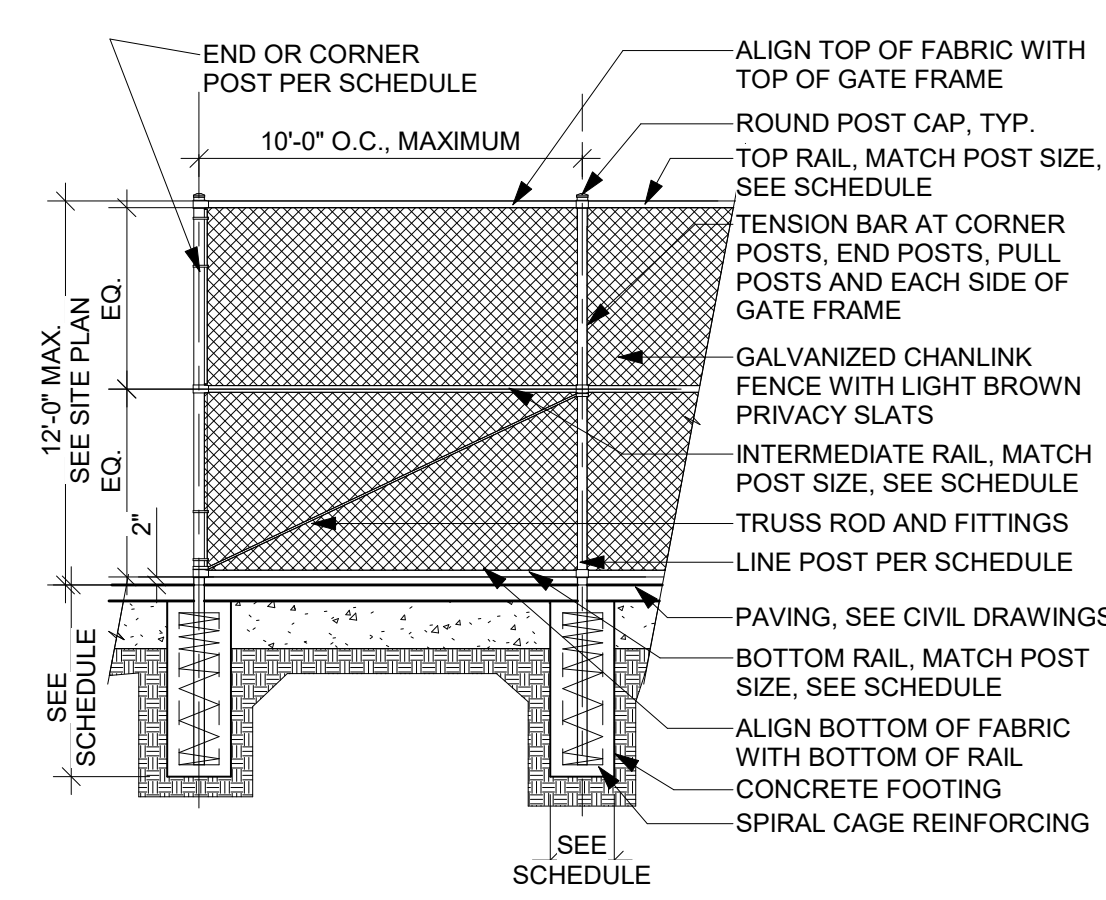


12 PANIC HARDWARE 1 1/2" = 1'-0"

POST AND CONCRETE FOOTING SCHEDULE

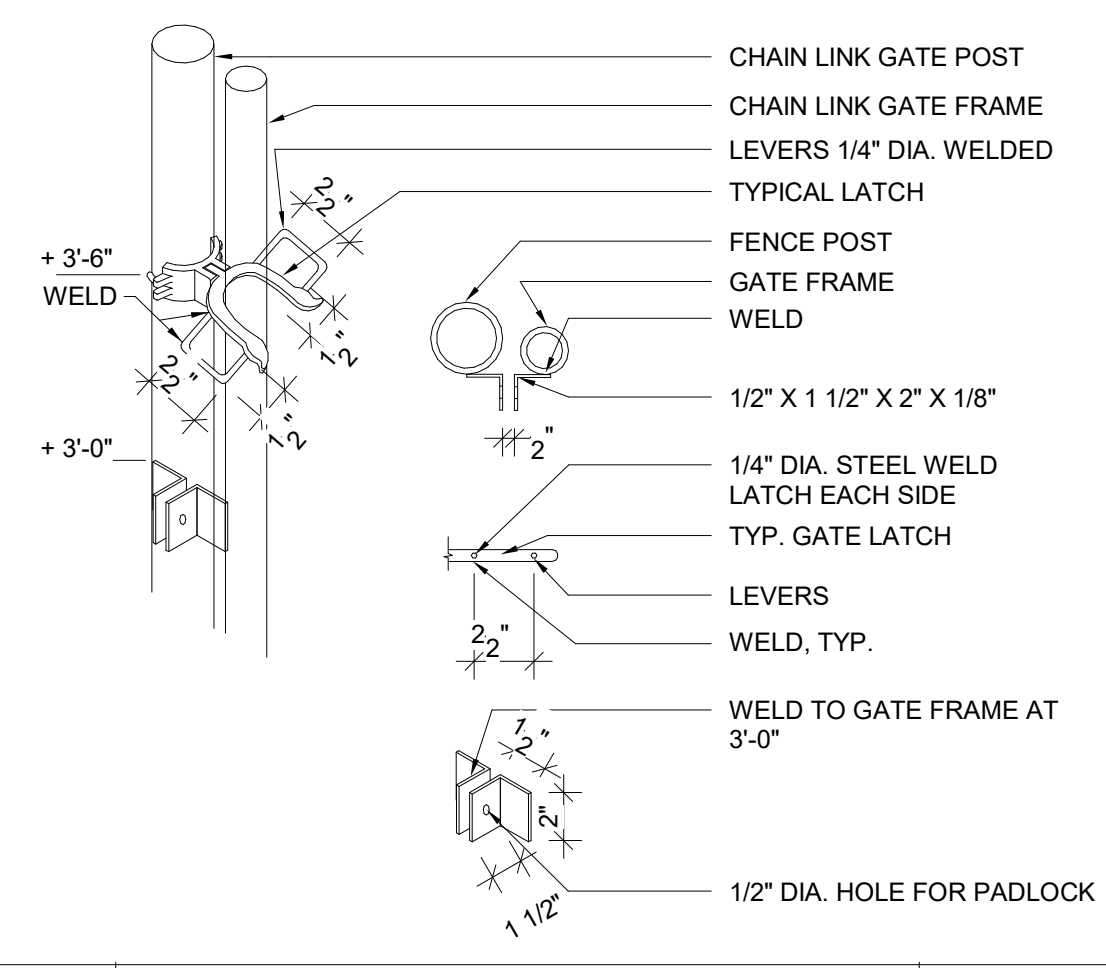
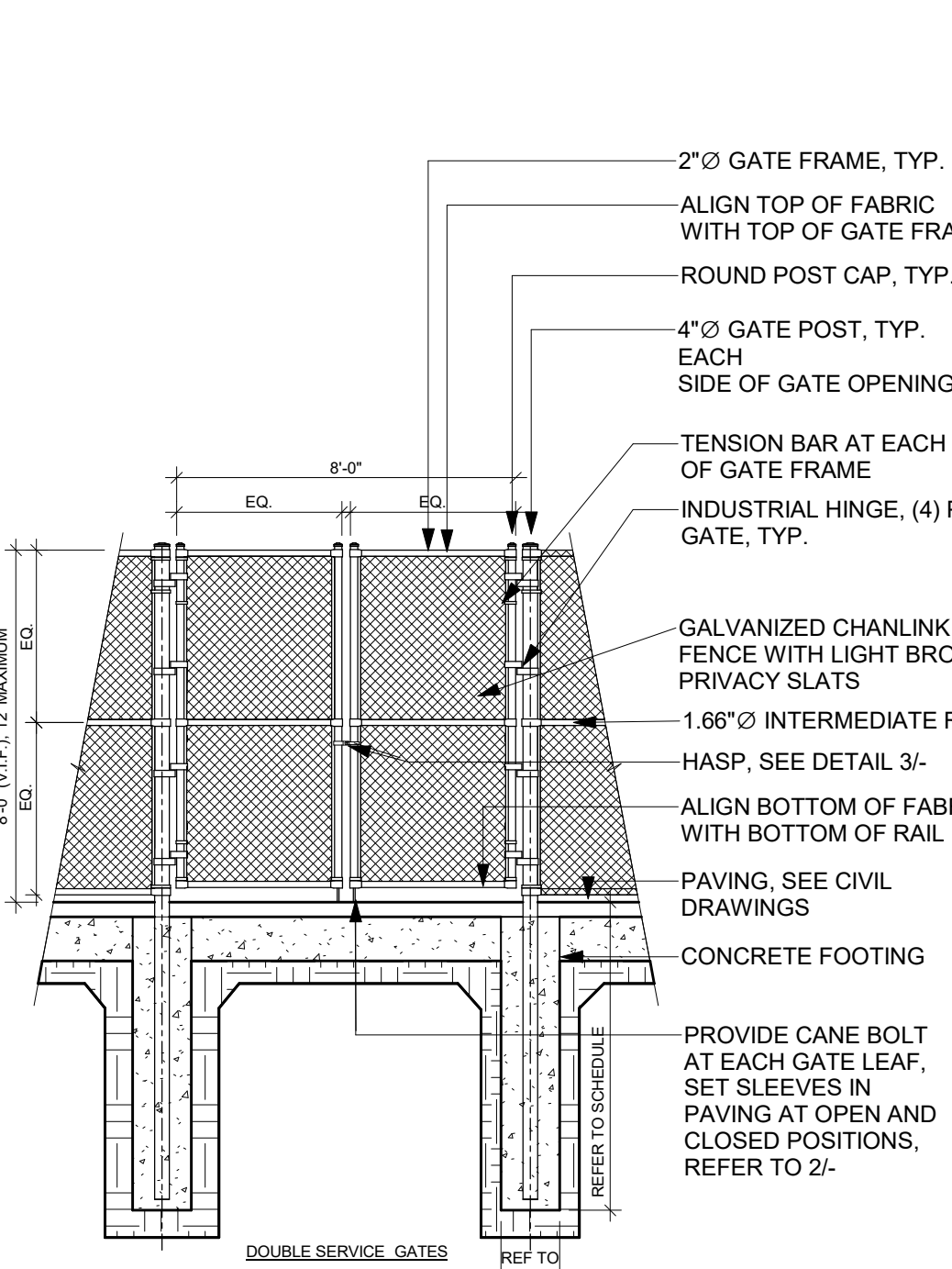
FENCE/GATE HEIGHT	FENCE POSTS		FENCE/GATE	
	LINE POST @10'-0" MAX	END OR CORNER POST	PIER DEPTH	PIER DIAMETER
6'-0" MAXIMUM	3" STD. PIPE	3" STD. PIPE	4'-3"	1'-0"
8'-0" MAXIMUM	3.5" STD. PIPE	3.5" STD. PIPE	5'-0"	1'-6"
10'-0" MAXIMUM	5" STD. PIPE	5" STD. PIPE	5'-6"	1'-6"
12'-0" MAXIMUM	5" STD. PIPE	5" STD. PIPE	6'-0"	1'-6"

FENCE SPECIFICATIONS:
1- GALVANIZED: ALL COMPONENTS OF FENCING INCLUDING BUT NOT LIMITED TO FENCE FABRIC MESH, POSTS, RAILS, RODS, TIES, BRACES, WIRES, AND HARDWARE TO BE GALVANIZED FINISH.
2- FABRIC SIZE: 2" MESH, 9 GAUGE WIRE SIZE PLUS.
3- POSTS AND RAILS: HEAVY INDUSTRIAL STRENGTH, ROUND STEEL PIPE, SCHEDULE 40

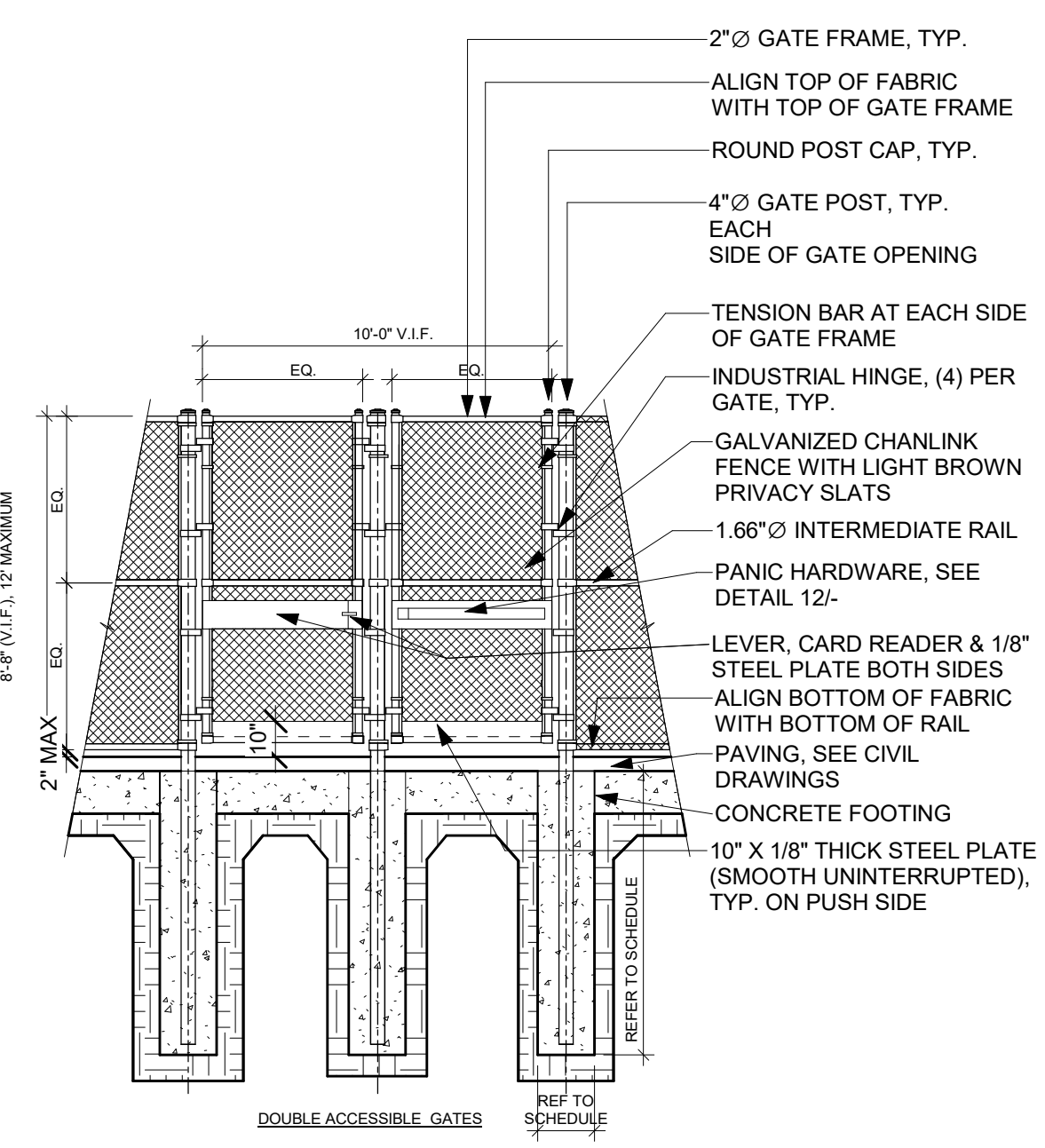


4 CHAIN LINK FENCE 1/4" = 1'-0"

8 CHAIN LINK FENCE SCHEDULE 3/8" = 1'-0"



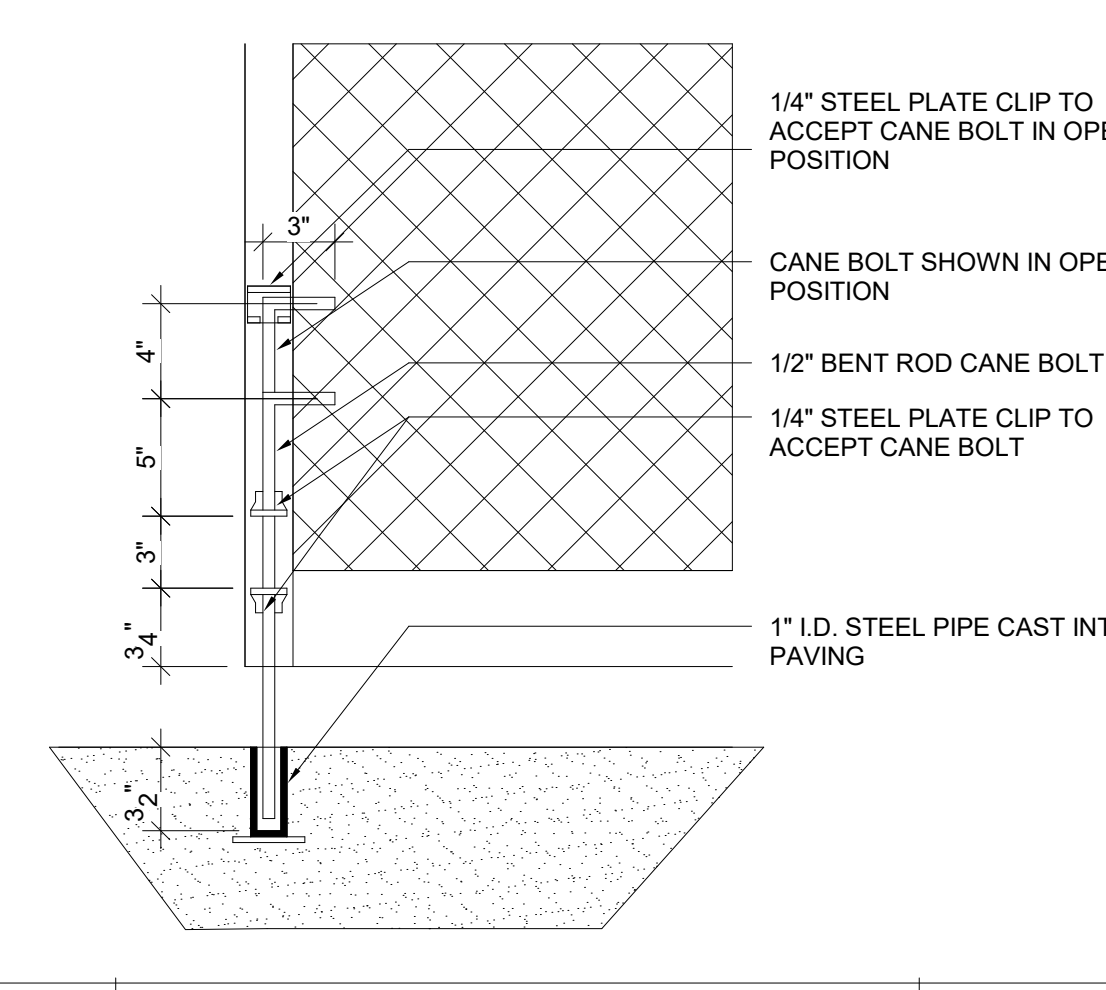
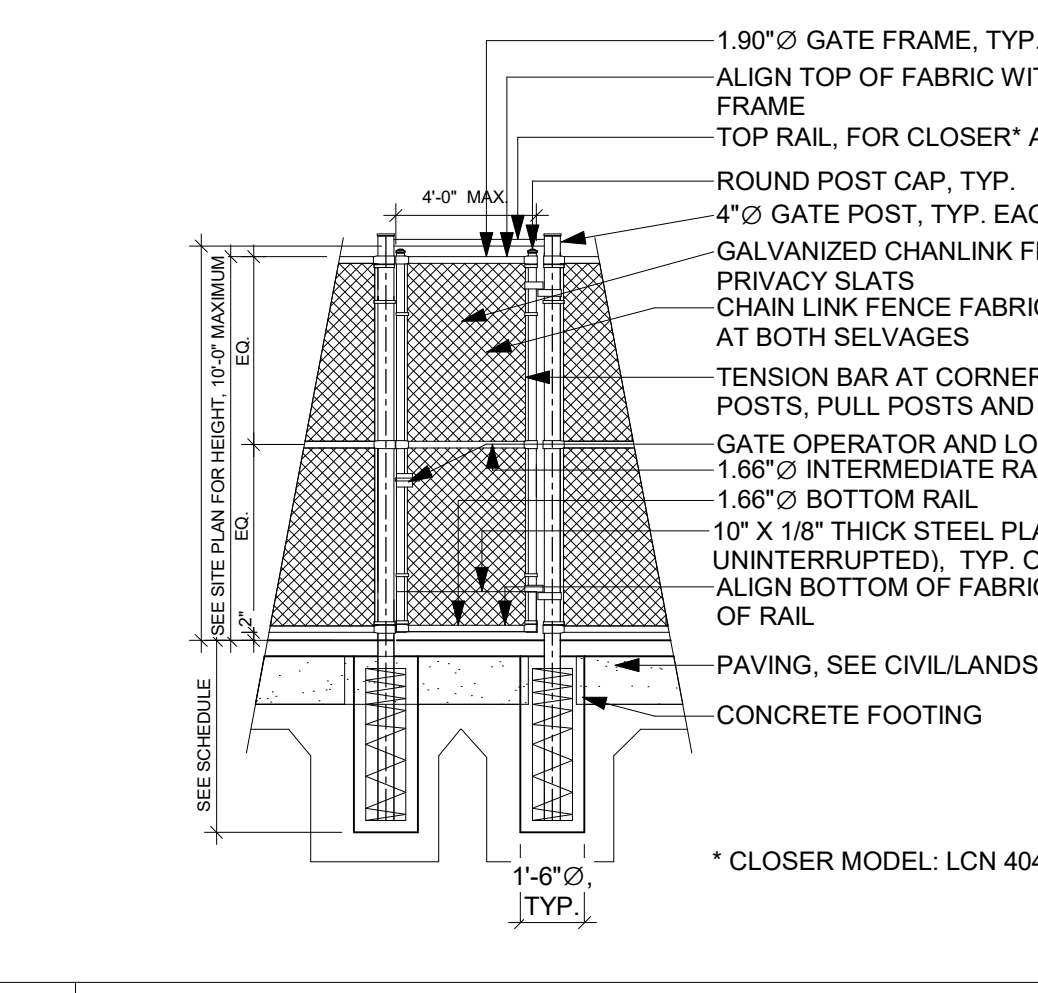
3 GATE HASP 1 1/2" = 1'-0"



FENCE SPECIFICATIONS:
1- GALVANIZED: ALL COMPONENTS OF FENCING INCLUDING BUT NOT LIMITED TO FENCE FABRIC MESH, POSTS, RAILS, RODS, TIES, BRACES, WIRES, AND HARDWARE TO BE GALVANIZED FINISH.
2- FABRIC SIZE: 1" MESH, 9 GAUGE WIRE SIZE PLUS. GALVANIZED WITH LIGHT BROWN PRIVACY SLATS
3- POSTS AND RAILS: HEAVY INDUSTRIAL STRENGTH, ROUND STEEL PIPE, SCHEDULE 40

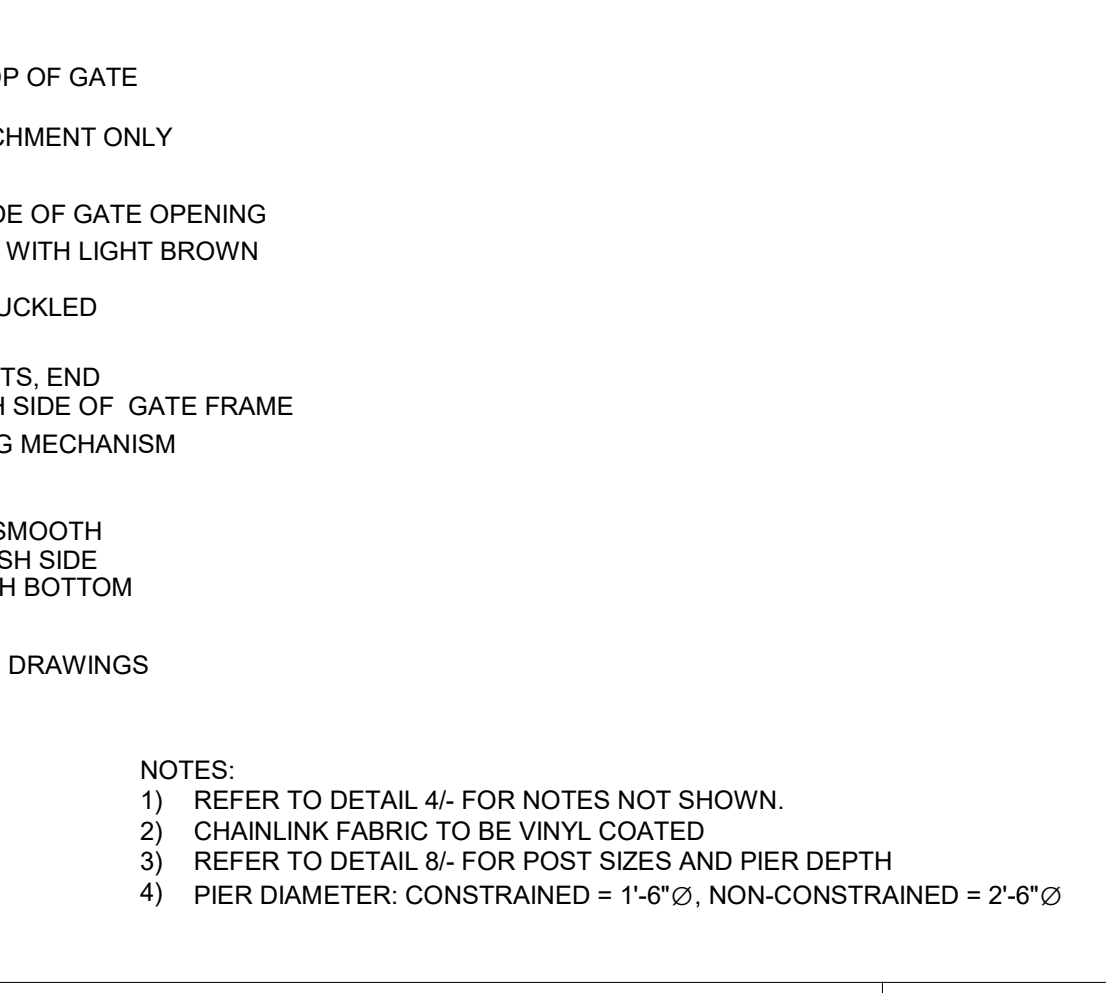
9 CHAIN LINK DOUBLE GATE 1/4" = 1'-0"

6 CHAIN LINK DOUBLE GATE 1/4" = 1'-0"



2 GATE CANE BOLT 1 1/2" = 1'-0"

5 CHAIN LINK SINGLE GATE 1/4" = 1'-0"



NOTES:
1) REFER TO DETAIL 4/- FOR NOTES NOT SHOWN.
2) CHAINLINK FABRIC TO BE VINYL COATED
3) REFER TO DETAIL 8/- FOR POST SIZES AND PIER DEPTH
4) PIER DIAMETER: CONSTRAINED = 1'-6" Ø, NON-CONSTRAINED = 2'-6" Ø

CONSULTANT'S STAMP

Key Plan

Project Title

SCCOE BACKUP GENERATOR

1290 Ridder Park Dr, San Jose

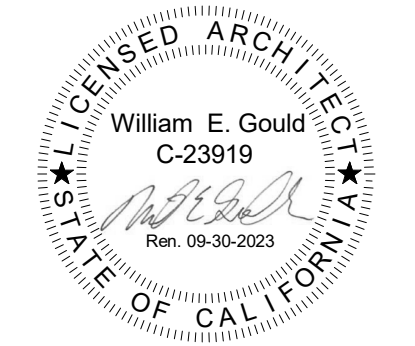
SANTA CLARA COUNTY OFFICE OF EDUCATION

No.	Description	Date
	BUILDING SUBMITTAL	07/11/22
1	ADDENDUM 1	08/22/23

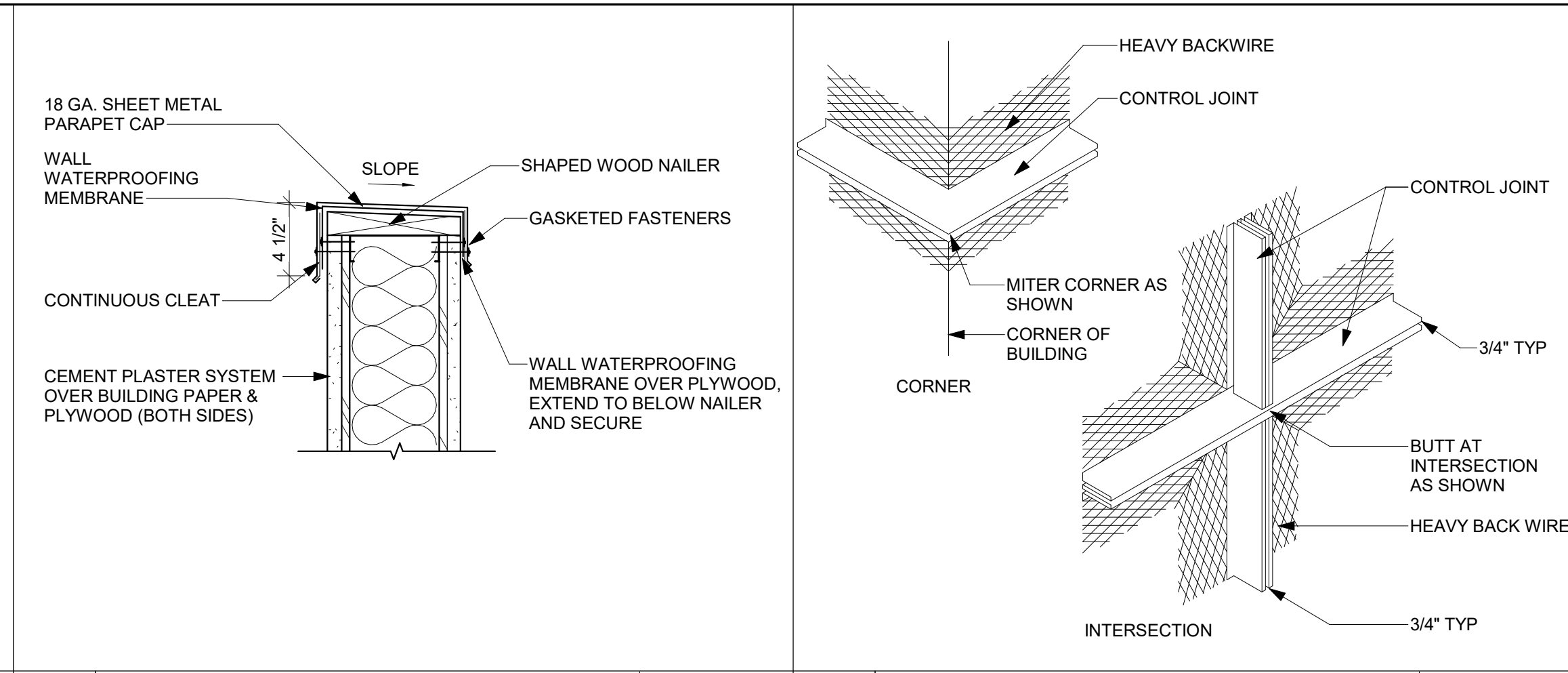
Drawing Title

EXTERIOR DETAILS

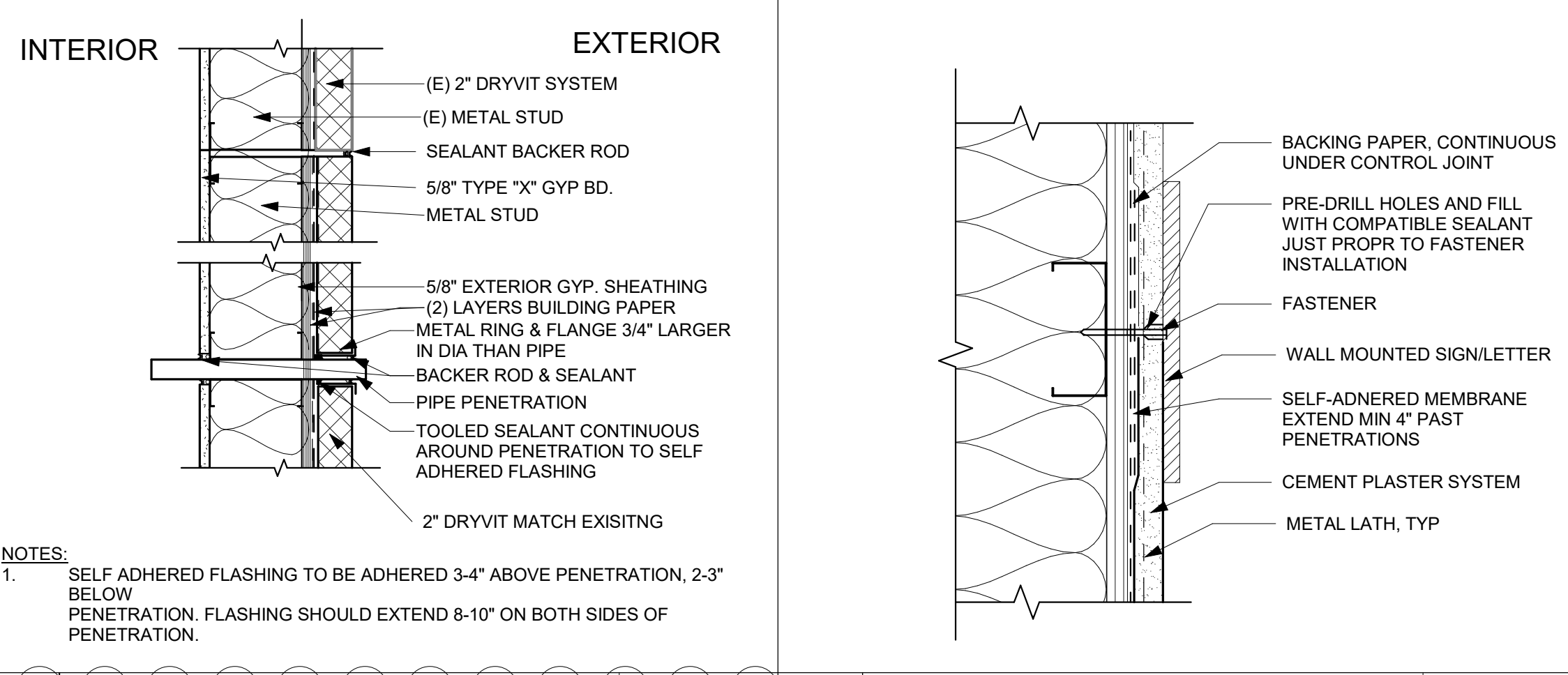
Architect Seal



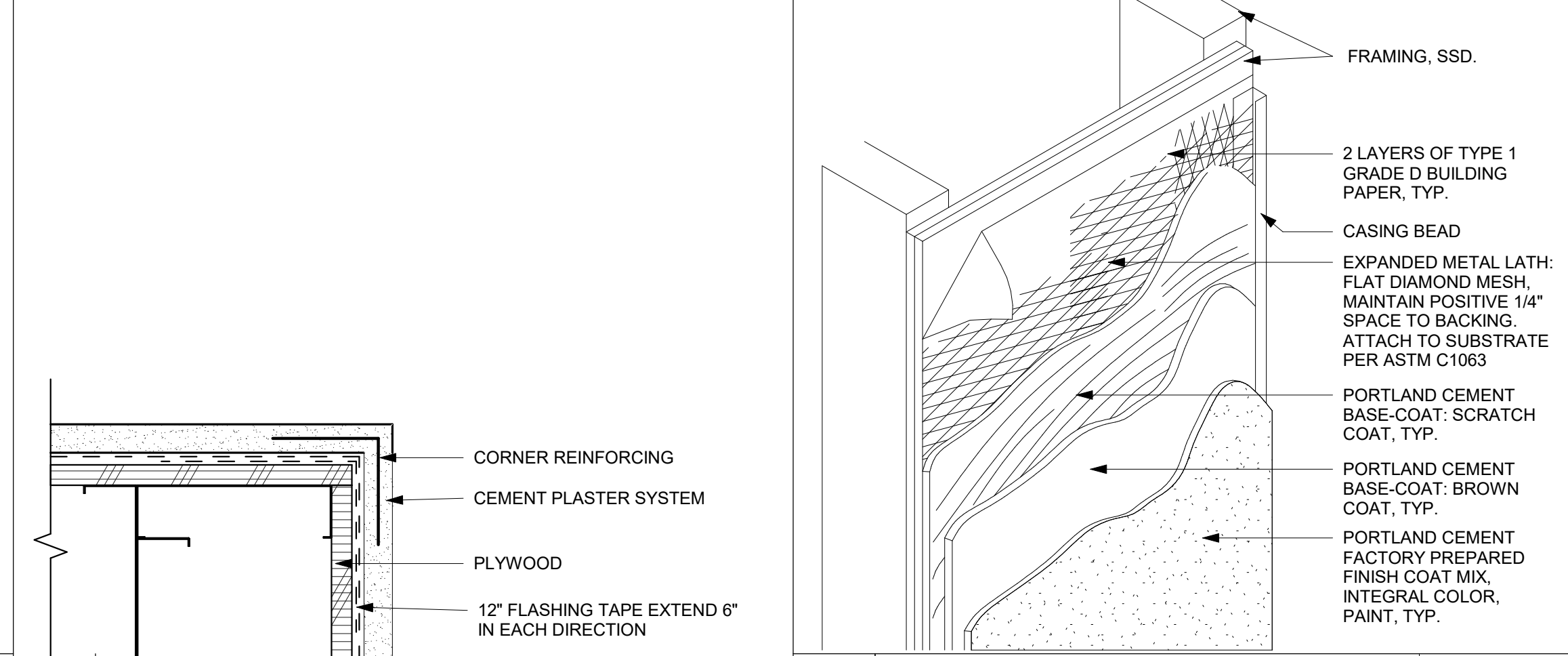
File No.	Drawing No.
Application No.	A12.32
Date	
Project Number	



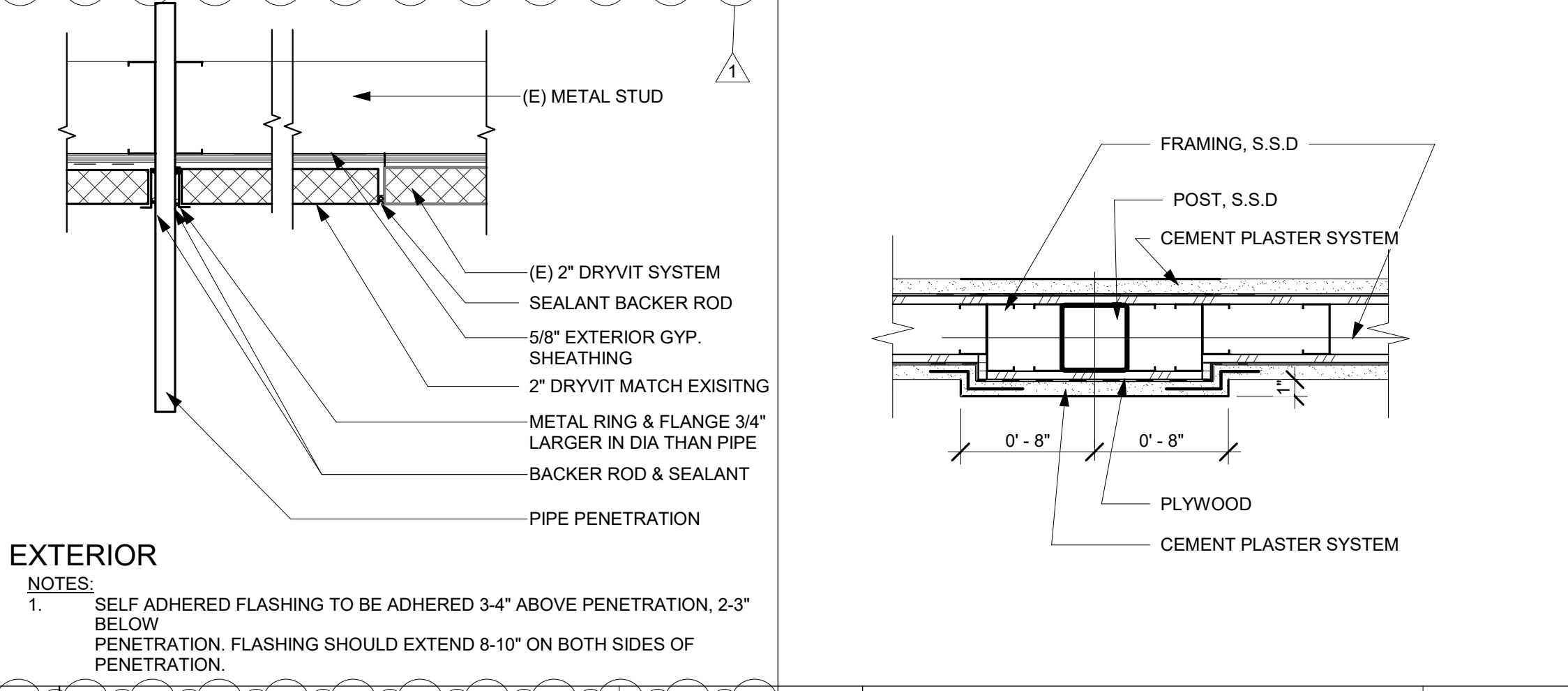
8 PARAPET WALL1 1 1/2" = 1'-0" 4 CEMENT PLASTER CONTROL JOINT2 3" = 1'-0"



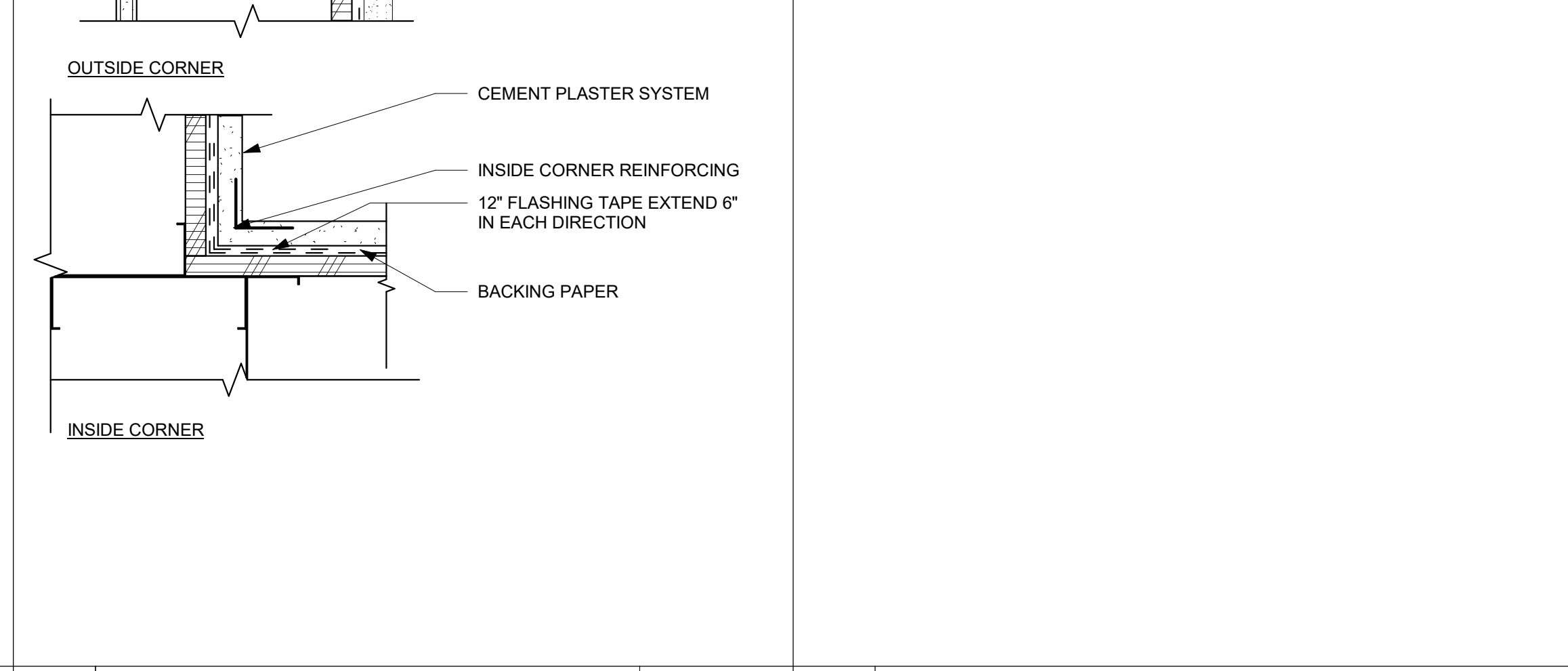
15 PENETRATION @ DRYVIT 1 1/2" = 1'-0" 11 CEMENT PLASTER SIGN/ LIGHT PENETRATION2 3" = 1'-0"



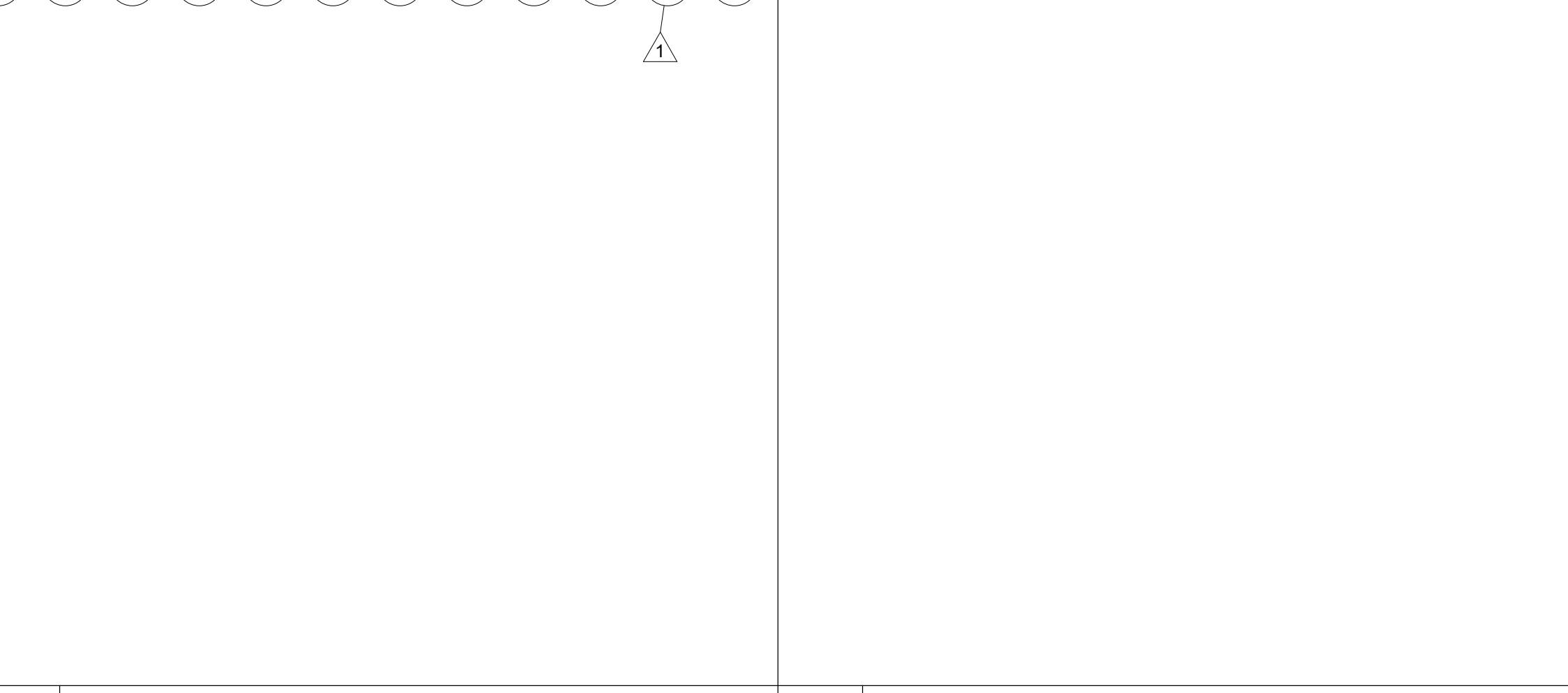
3 CEMENT PLASTER SYSTEM2 3" = 1'-0"



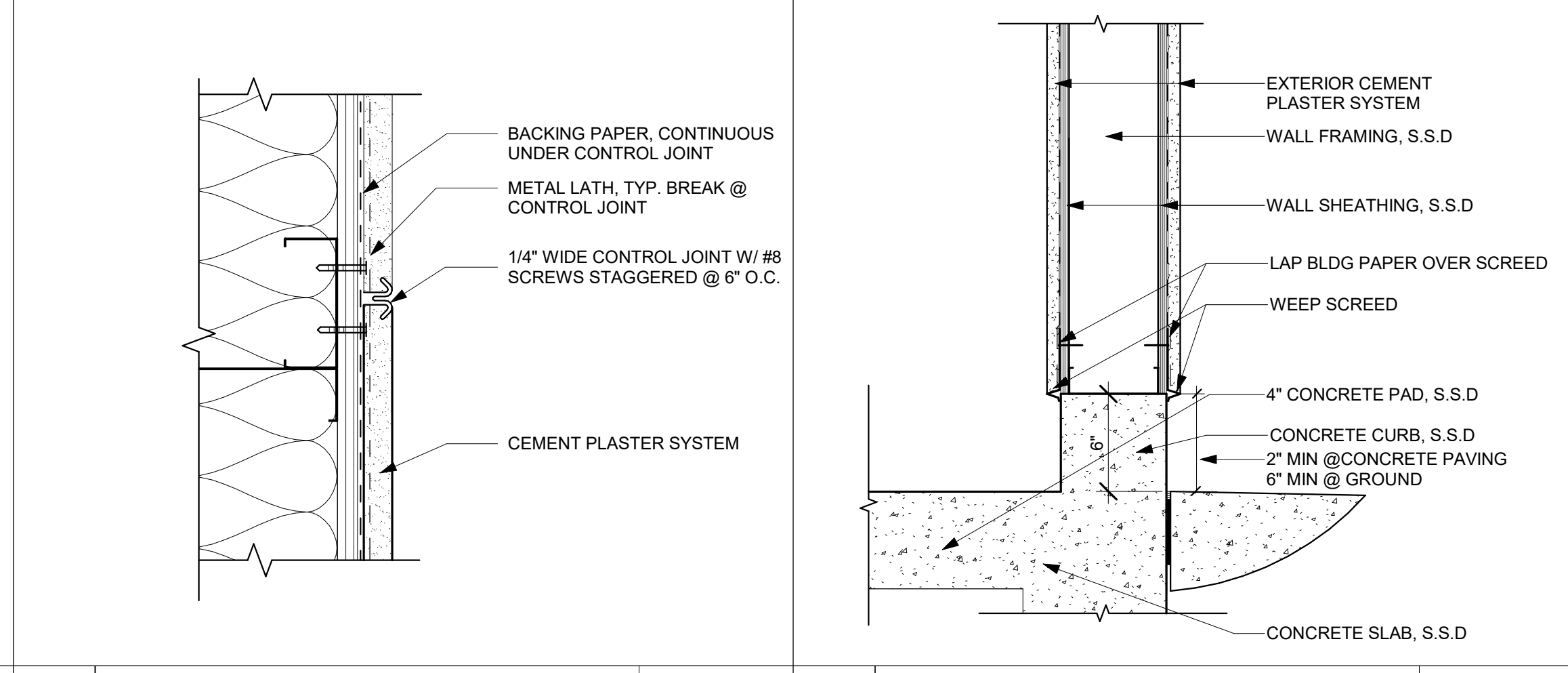
14 PENETRATION @ DRYVIT SOFFIT 1 1/2" = 1'-0" 10 CEMENT PLASTER AT PILASTER 1 1/2" = 1'-0"



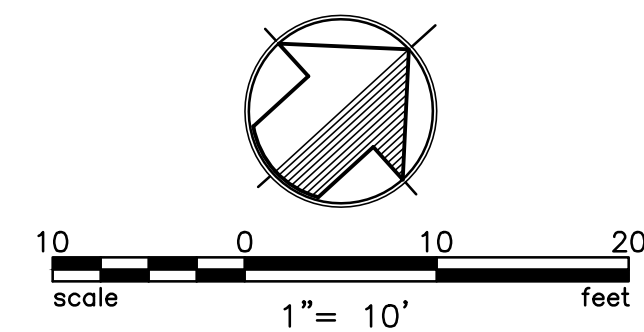
6 CEMENT PLASTER CORNER2 3" = 1'-0"



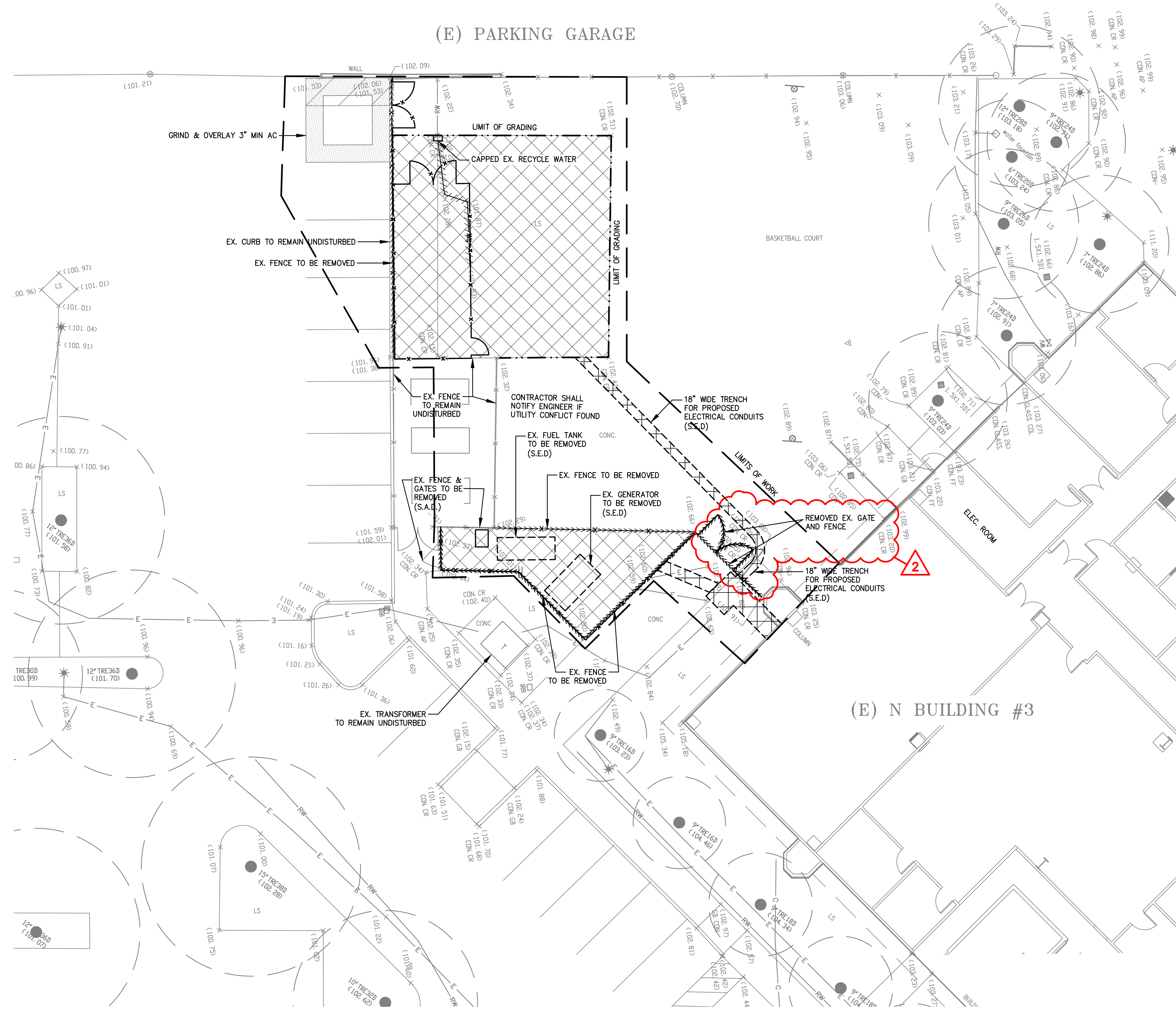
5 CEMENT PLASTER CONTROL JOINT 3" = 1'-0"



1 CEMENT PLASTER WALL BASE2 1 1/2" = 1'-0"



(E) PARKING GARAGE



ALL CONTRACTORS SHALL CALL UNDERGROUND SERVICE ALERT (CA. 1-800-642-2444) 48 HOURS BEFORE DIGGING AND OBTAIN AN IDENTIFICATION NUMBER (SECTION 4210.1 OF THE GOVERNMENT CODE).

IT SHALL BE THE RESPONSIBILITY OF CONTRACTORS OR AGENTS TO IDENTIFY, LOCATE AND PROTECT ALL UTILITIES ABOVE AND UNDERGROUND, INCLUDING ANY UTILITIES NOT SHOWN. CONTRACTOR IS TO NOTIFY UTILITIES 48 HOURS PRIOR TO REMOVAL OF ANY GAS, ELECTRICAL, TELEPHONE, SEWER OR WATER LINES.

EXISTING UTILITIES SHOWN WERE IDENTIFIED FROM A SURFACE SURVEY. ADDITIONAL UNDERGROUND UTILITIES DO EXIST AND COULD NOT BE IDENTIFIED ON THIS MAP.

CONTRACTOR POTHOLE TO VERIFY EXISTING UTILITIES INVERT PRIOR TO CONSTRUCT NEW UTILITIES. IF THERE IS A CONFLICT, PLEASE NOTIFY TO THE CIVIL ENGINEER IMMEDIATELY.

DEMOLITION NOTES: "FOR INFORMATION ONLY"

- CONTRACTOR SHALL NOTIFY THE BUILDING DEPARTMENT AT LEAST 24 HOURS PRIOR TO STARTING WORK.
- ALL CONTRACTORS SHALL CALL U.S.A. (CA. 1-800-642-2444) 48 HOURS BEFORE DIGGING, AND OBTAIN AN IDENTIFICATION NUMBER (SECTION 4210.1 OF THE GOVERNMENT CODE).
- HAZARDOUS MATERIALS: UPON DISCOVERY OF HAZARDOUS MATERIAL, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE CITY IN WRITING OF ANY:
 - MATERIAL THAT THE CONTRACTOR BELIEVES MAY BE MATERIAL THAT IS HAZARDOUS WASTE, AS DEFINED IN SECTION 25117 OF THE HEALTH AND SAFETY CODE, THAT IS REQUIRED TO BE REMOVED TO A CLASS I, CLASS II, OR CLASS III DISPOSAL SITE IN ACCORDANCE WITH PROVISIONS OF EXISTING LAW.
 - SUBSURFACE OR LATENT PHYSICAL CONDITIONS AT THE SITE DIFFERING FROM THOSE INDICATED.
 - UNKNOWN PHYSICAL CONDITIONS AT THE SITE OF ANY UNUSUAL NATURE, DIFFERING FROM THOSE ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE CONTRACT. THE OWNER WILL INVESTIGATE THE SUSPECTED CONDITION AND, AS NECESSARY, INITIATE FURTHER ANALYSIS OF THE PROBLEM. IF REMEDIATION IS REQUIRED, A REMEDIATION PLAN WILL BE PREPARED.
- IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT-RELATED CONSTRUCTION SHOULD CEASE WITHIN A 100-FOOT RADIUS. THE CONTRACTOR SHALL, PURSUANT TO SECTION 7050.5 OF THE HEALTH AND SAFETY CODE, AND SECTION 5097.94 OF THE PUBLIC RESOURCES CODE OF THE STATE OF CALIFORNIA, NOTIFY THE SANTA CLARA COUNTY CORNER IMMEDIATELY.
- CONTRACTOR SHALL REMOVE ALL U.S.A. MARKINGS AS SOON AS THEY ARE NO LONGER NEEDED. REMOVAL OF PAINT SHALL BE BY HIGH WATER PRESSURE METHOD ONLY.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITY AGENCY PRIOR TO DEMOLITION OF ANY EXISTING UTILITIES.
- REMOVE EXISTING PAVEMENT, CURB AND UTILITIES (AS SHOWN).
- CONTRACTOR TO CONTROL DUST DURING DEMOLITION.
- CONTRACTOR TO RECYCLE MATERIALS WHENEVER POSSIBLE.

DEMOLITION LEGEND

	REMOVE EXISTING PAVEMENT/CONCRETE
	GRIND & 3" AC OVERLAY
X	REMOVE EXISTING TREE
	REMOVE EXISTING CURB/GUTTER
	REMOVE EXISTING FENCE AND GATE
	REMOVE EXISTING UNDERGROUND UTILITY
	LIMIT OF SITE DEMOLITION, CLEARING AND GRADING
	SAW CUT LINE
AC	ASPHALT CONCRETE
AD	AREA DRAIN
CB	CATCH BASIN
CO	CLEAN OUT
CONC.	CONCRETE
EX., EXIST.	EXISTING
S.A.D	SEE ARCHITECTURE DRAWING
S.E.D	SEE ELECTRICAL DRAWING
TYP.	TYPICAL

FOR INFORMATION ONLY
NOT REVIEWED OR APPROVED
BY PUBLIC WORKS

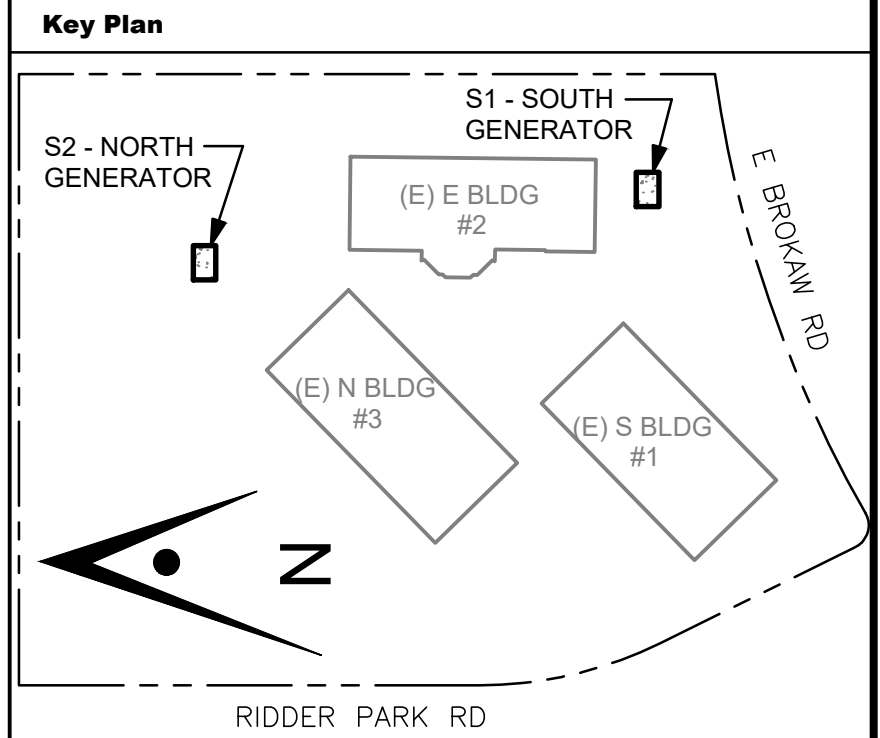
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San Jose, CA 95111
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CONSULTANT'S STAMP

U&R **UNDERWOOD & ROSENBLUM, INC.**
civil engineers and surveyors

1630 Oakland Road Ste. A114 San Jose, Ca. 95131
Tel. No. (408) 453 1222 www.uandor.com
PROJECT NO. J22071



Project Title

SCCOE BACKUP GENERATOR

1290 Ridder Park Dr, San Jose

SANTA CLARA COUNTY OFFICE OF EDUCATION

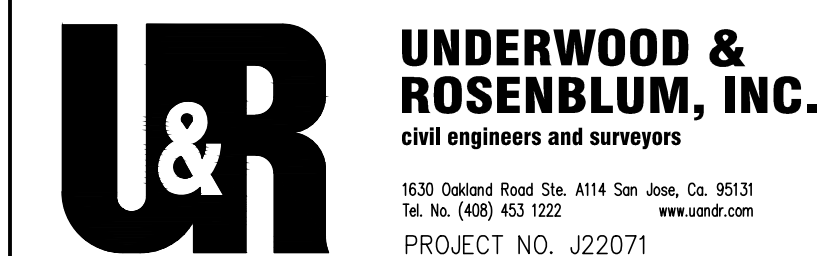
No.	Description	Date
	BUILDING SUBMITTAL	07/11/22
1	GENERATOR REVISIONS	01/26/23
2	GATE AND FENCE REVISIONS	08/25/23

Drawing Title

**ENLARGED PLAN
N BUILDING
DEMOLITION PLAN**

File No.	Drawing No.
Application No.	C1
Date	
Project Number	
PW Project #	

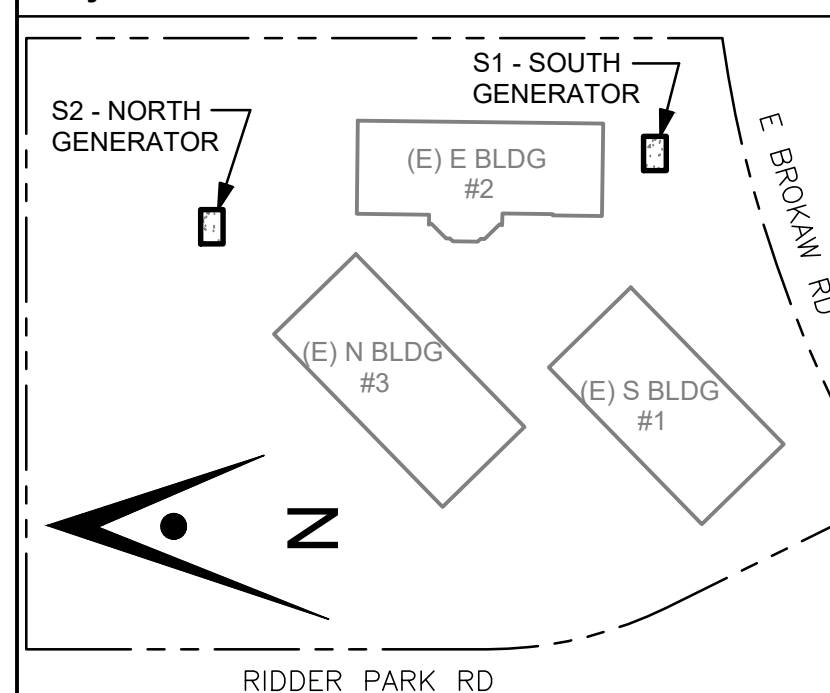
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Key Plan



Project Title

SCCOE BACKUP GENERATOR

1290 Ridder Park Dr, San Jose

SANTA CLARA COUNTY OFFICE OF EDUCATION

No.	Description	Date
	BUILDING SUBMITTAL	07/11/22
1	GENERATOR REVISIONS	01/26/23

Drawing Title

ENLARGED PLAN N BUILDING GRADING AND UTILITY PLAN

Architect Seal

File No.	Drawing No.
Application No.	C2
Date	
Project Number	
PW Project #	

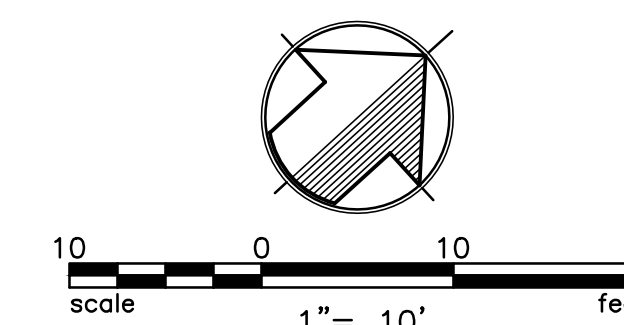


ALL CONTRACTORS SHALL CALL UNDERGROUND SERVICE ALERT (CA. 1-800-642-2444) 48 HOURS BEFORE DIGGING AND OBTAIN AN IDENTIFICATION NUMBER (SECTION 4210.1 OF THE GOVERNMENT CODE).

IT SHALL BE THE RESPONSIBILITY OF CONTRACTORS OR AGENTS TO IDENTIFY, LOCATE AND PROTECT ALL UTILITIES ABOVE AND UNDERGROUND, INCLUDING ANY UTILITIES NOT SHOWN. CONTRACTOR IS TO NOTIFY UTILITIES 48 HOURS PRIOR TO REMOVAL OF ANY GAS, ELECTRICAL, TELEPHONE, SEWER OR WATER LINES.

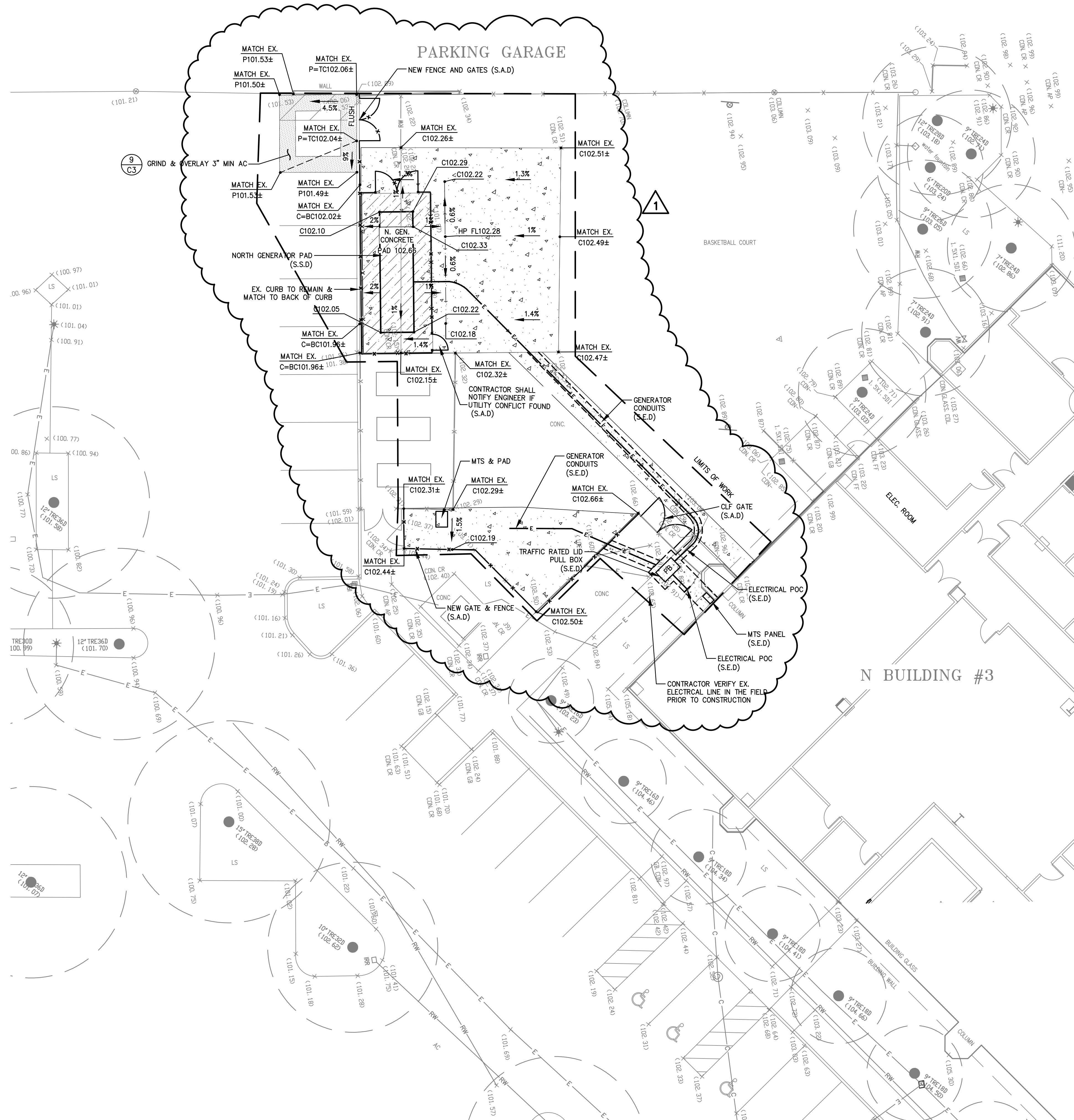
EXISTING UTILITIES SHOWN WERE IDENTIFIED FROM A SURFACE SURVEY. ADDITIONAL UNDERGROUND UTILITIES DO EXIST AND COULD NOT BE IDENTIFIED ON THIS MAP.

CONTRACTOR POTHOLE TO VERIFY EXISTING UTILITIES INVERT PRIOR TO CONSTRUCT NEW UTILITIES. IF THERE IS A CONFLICT, PLEASE NOTIFY TO THE CIVIL ENGINEER IMMEDIATELY.



SEE SHEET C0 FOR NOTES AND LEGEND

THIS PROJECT WILL NOT CREATE AND/OR REPLACE 5,000 S.F. OF IMPERVIOUS SURFACE AND IS THEREFORE NOT A REGULATED PROJECT AND DOES NOT REQUIRE LOW IMPACT DEVELOPMENT TREATMENT MEASURES.



GENERAL NOTES

- THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2019 CBC (CALIFORNIA BUILDING CODE), 2019 CEC (CALIFORNIA ELECTRICAL CODE), 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS AND SAN JOSE CITY REQUIREMENTS, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDER ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS, ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR, PRIOR TO BIDDING, SHALL VISIT THE JOB SITE TO BECOME ACQUAINTED WITH THE EXISTING INSTALLATION AND SYSTEMS RELATED TO HIS WORK AND SHALL INCLUDE IN THE BID PROPOSAL ALL LABOR AND MATERIALS REQUIRED FOR THE ELECTRICAL INSTALLATION TO BE COMPLETE AND OPERATIVE.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ENGINEER, THE SCCOE AND WITH OTHER WORK TO BE PROVIDED.
- THE CONTRACTOR SHALL ORGANIZE AND CONDUCT HIS WORK TO MINIMIZE PLANT SHUTDOWN TIME. COORDINATE ALL POWER SHUTDOWNS WITH THE OWNER'S REPRESENTATIVE.
- PROVIDE SUBMITTALS FOR ALL (N) ELECTRICAL EQUIPMENT FOR APPROVAL BEFORE ORDERING AND INSTALLATION.
- SUBMIT COPIES OF PANEL SCHEDULES WHERE REQUIRED FOR APPROVAL.
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY.
- ALL EXISTING EQUIPMENT SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- LOCATIONS OF CONTROLLERS, CONDUIT, PULL BOXES AND OTHER EQUIPMENT AS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- ALL EXTERIOR MOUNTED EQUIPMENT SHALL BE WEATHERPROOF.
- UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG THW, THWN OR XHHW STRANDED COPPER ONLY.
- GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT CONDUITS.
- ELECTRICAL EQUIPMENT AND FEEDERS SHALL BE SUPPORTED AND/OR ANCHORED IN ACCORDANCE WITH CBC SEISMIC REQUIREMENTS.
- PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE PHENOLIC TYPE WITH BLACK LETTERS ON WHITE BACKGROUND, ATTACHED TO THE EQUIPMENT WITH STAINLESS STEEL SCREWS.
- SEAL OPENINGS AROUND NEW CONDUIT AND CONDUIT OPENINGS WHERE CONDUIT WAS REMOVED TO PREVENT PASSAGE OF WATER OR WATER AND GAS.
- THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS-BUILT" DRAWING SET. THE "AS-BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS-BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- UPON COMPLETION OF HIS WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL BE CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.

ABBREVIATIONS

A	AMMETER, AMPERE, AMBER	INST	INSTANTANEOUS
AF	AMPERE FRAME	KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
ANNUN	ANNUNCIATOR	KVA	KILOVOLT AMPERE
AFC	AVAILABLE FAULT CURRENT	KW	KILOWATT
AFG	ABOVE FINAL GRADE		
ARMS	ARC REDUCTION MAINTENANCE SWITCH	LT FLEX	LIQUID TIGHT FLEX CONDUIT
AT	AMPERE TRIP	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	MSB	MAIN SWITCHBOARD
		MT	EMPTY
BKR	BREAKER	MTS	MANUAL TRANSFER SWITCH
		(N)	NEW
C	CONDUIT, CONTACTOR, CONTROL	OFCI	OWNER-FURNISHED, CONTRACTOR INSTALLED
CBC	CALIFORNIA BUILDING CODE	PCGRS	PVC COATED GALVANIZED RIGID STEEL CONDUIT
CKT	CIRCUIT	PNL	PANEL
CP	CONTROL PANEL	PQM	POWER QUALITY METER
CT	CURRENT TRANSFORMER		
CU	COPPER	RCPT	RECEPTACLE
(E)	EXISTING	SCCR	SHORT CIRCUIT RATING
ELEV	ELEVATOR	SPD	SURGE PROTECTION DEVICE
EM	EMERGENCY	ST	SHUNT TRIP
EMS	BUILDING ENERGY MANAGEMENT SYSTEM		
FLA	FULL LOAD AMPS	TP	TWISTED PAIR
		TSP	TWISTED SHIELDED PAIR
G	GREEN, GROUND, GENERATOR	UON	UNLESS OTHERWISE NOTED
GEN	GENERATOR		
GFI	GROUND FAULT		
GND	GROUND		
GRS	GALVANIZED RIGID STEEL CONDUIT		

DRAWING INDEX

E-1	ELECTRICAL GENERAL
E-2	EMERGENCY POWER SITE PLAN
E-3	ENLARGED PLAN - SOUTH BUILDING (BLDG #1) SERVICE
E-4	ENLARGED PLAN - NORTH BUILDING (BLDG #3) SERVICE
E-5	SINGLE LINE DIAGRAM - BLDG #1
E-6	SINGLE LINE DIAGRAM - BLDG #3
E-7	GENERATOR DETAILS
E-8	SWITCHBOARD DETAIL - BLDG #1
E-9	SWITCHBOARD DETAIL - BLDG #3
E-10	PG&E SHORT CIRCUIT LETTERS

SCOPE OF WORK

NORTH BUILDING:

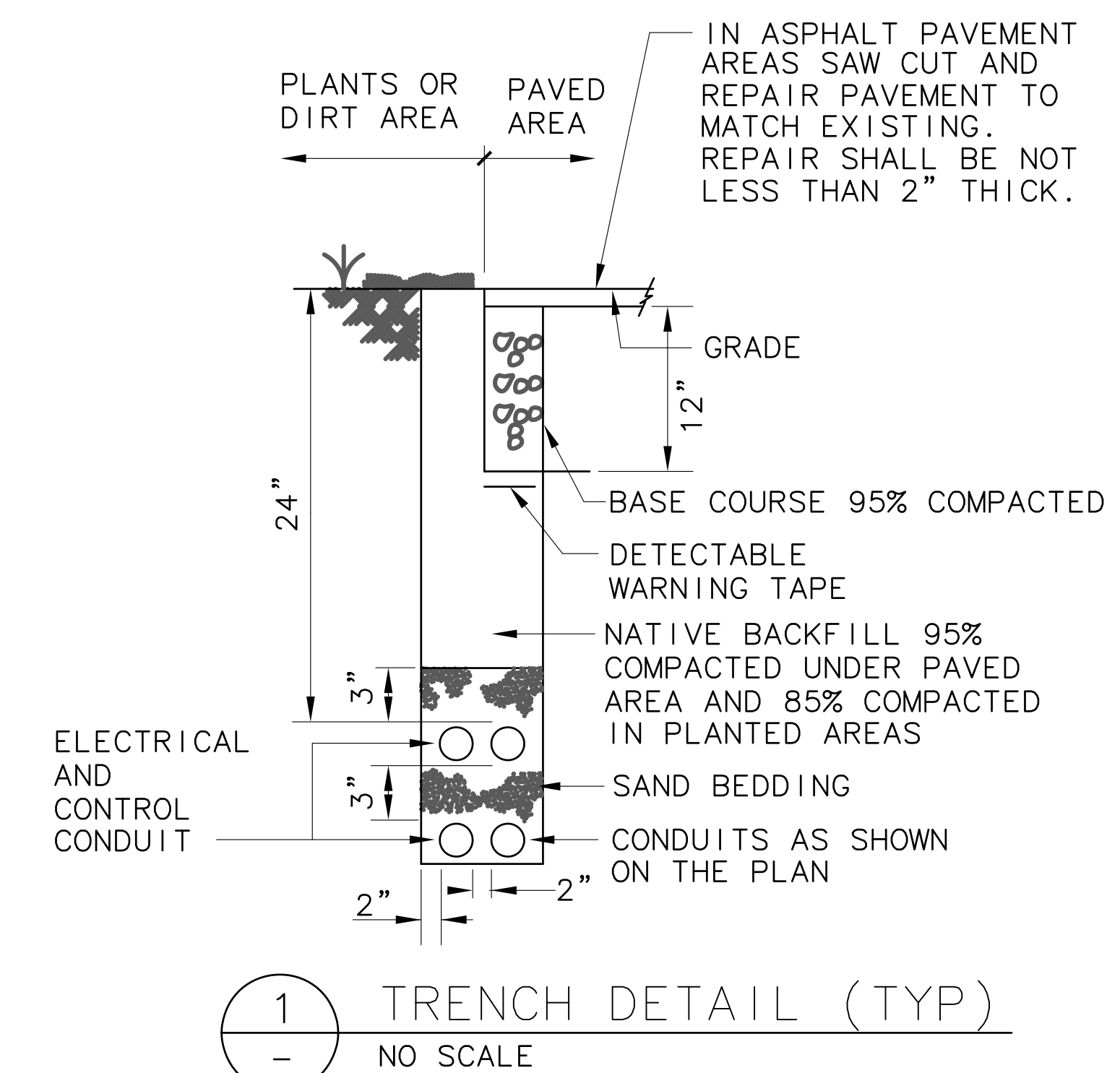
THE SCOPE OF WORK INCLUDES REMOVING THE EXISTING 300 KW GENERATOR THAT PROVIDES BACKUP TO ONLY DATA CENTER AND PROVIDING A NEW 500 KW GENERATOR THAT WILL PROVIDE BACKUP POWER TO THE ENTIRE BUILDING.

SOUTH BUILDING:

THE SCOPE OF WORK INCLUDES PROVIDING A NEW 500 KW GENERATOR THAT WILL PROVIDE BACKUP POWER FOR THE ENTIRE BUILDING.

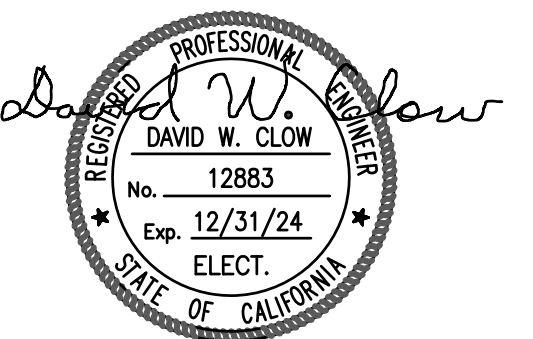
LEGEND

①	SHEET NOTE REFERENCE
Ⓛ "ELB"-2	20A, 125V DUPLEX RECEPTACLE, NEMA 5-20R, +18", UON. "ELB"-2 INDICATES PANEL "ELB" CKT 2, RED COLOR IF ON EMERGENCY CKT.
Ⓛ	GFI - GROUND FAULT PROTECTED
Ⓛ	EX - EXPLOSION PROOF
Ⓛ	CRE - CORROSION RESISTANT
Ⓛ	TL - TWIST LOCK
Ⓛ	WP - WEATHERPROOF
\$	LIGHT SWITCH +45" U.O.N.
—	NEW ELECTRICAL EQUIPMENT
—	EXISTING ELECTRICAL EQUIPMENT
////	ELECTRICAL EQUIPMENT TO BE DISCONNECTED AND REMOVED
- - -	CONDUIT RUN UNDERGROUND OR BELOW FLOOR
—	CONDUIT RUN ABOVE GRADE OR ON CEILING
—	CONDUIT RUN WITH WIRES. (↑) INDICATES GROUND, (↓) INDICATES NEUTRAL, (·) INDICATES HOT WIRES
~	FLEXIBLE METAL CONDUIT
□	EXISTING PRE CAST CONCRETE PULL BOX
□	NEW PRE CAST CONCRETE PULLBOX COVER MARKED "ELECTRICAL" SEE CALTRANS STANDARD PLAN ES-E8.
Ⓛ	MOTOR, SQUIRREL CAGE INDUCTION NUMBER IF PRESENT INDICATES HORSEPOWER
Ⓛ	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE UNLESS INDICATED OTHERWISE.
Ⓛ	SWITCH - CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.
Ⓛ	FUSE - RATING INDICATED
Ⓛ	SURGE ARRESTER
Ⓛ	TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN
Ⓛ	NON FUSED DISCONNECT SWITCH, SIZE INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.
Ⓛ OR ⊕	GROUND ELECTRODE, 5/8" x 10'-0" COPPER CLAD STEEL
RC	REMOVE AND BECOME PROPERTY OF CONTRACTOR



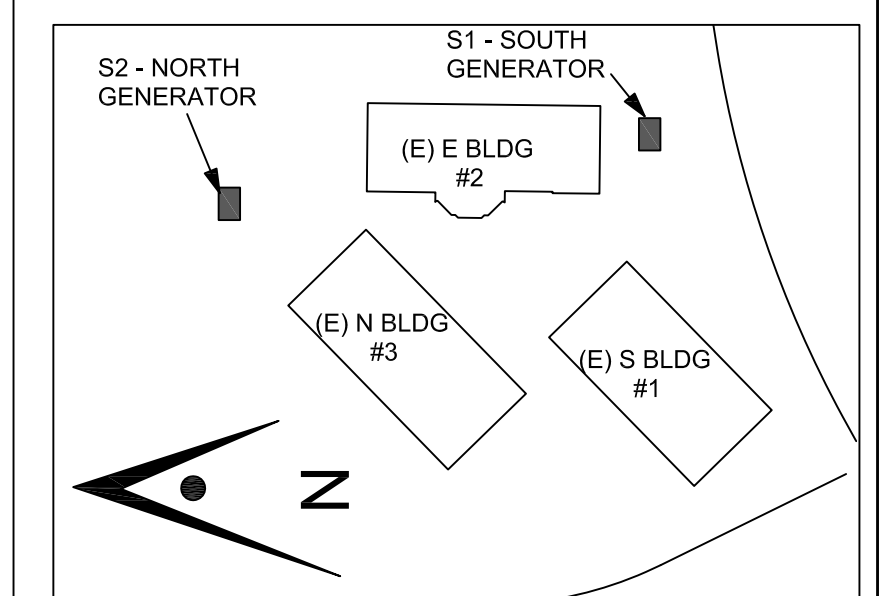
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Key Plan



Project Title

BACKUP GENERATOR AT RIDDER PARK
1290 RIDDER PARK DRIVE, MC 254
SAN JOSE, CA 95131
SCCOE

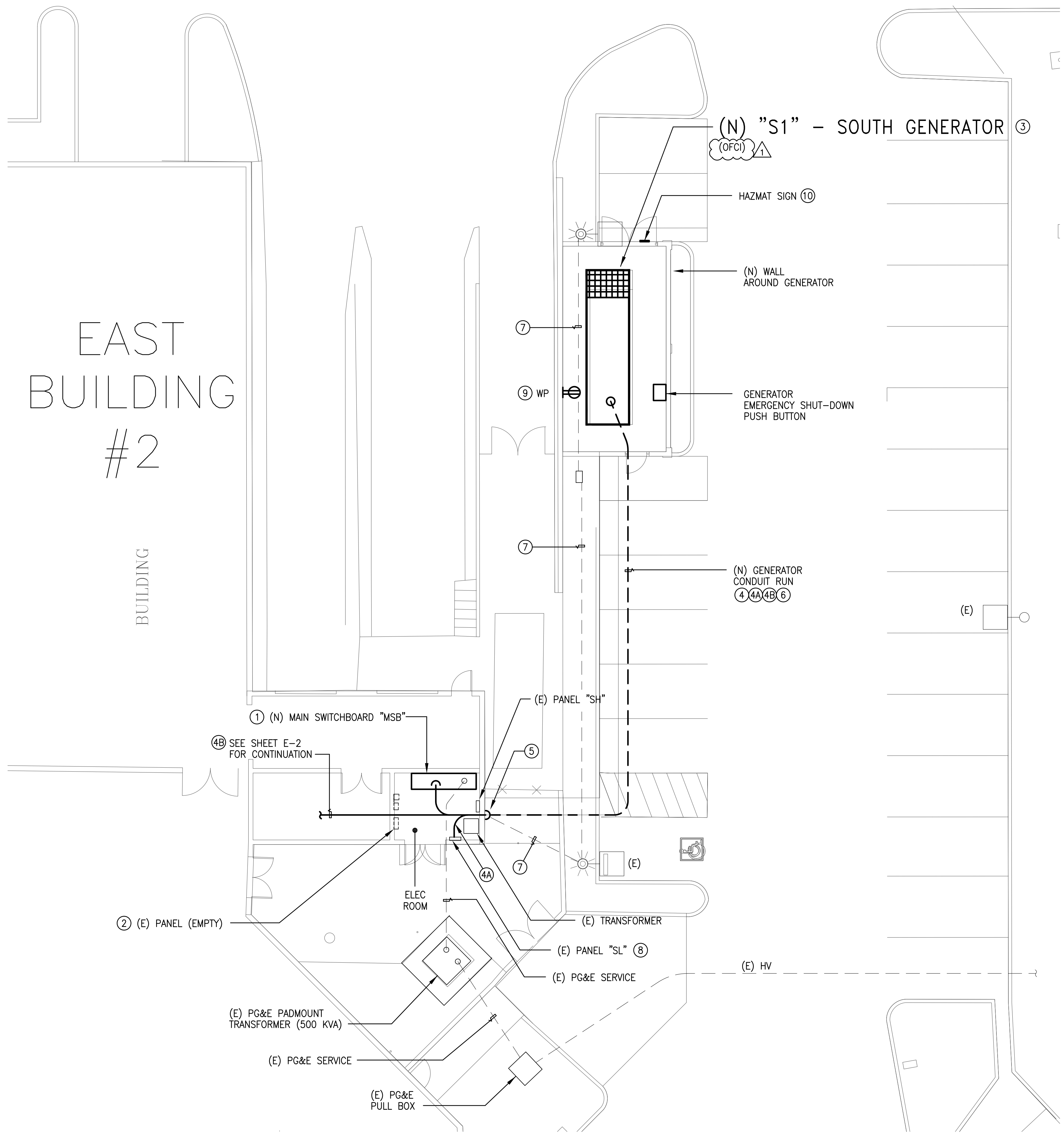
No.	Description	Date
	PLANNING SUBMITTAL	5/26/22
	BUILDING SUBMITTAL	7/11/22
Δ	ADDENDUM 1	8/30/23

Drawing Title

ELECTRICAL GENERAL

Architect Seal

File No.	-	Drawing No.	E-1
Application No.	-		
Date	01/26/23		
Project Number	06401		



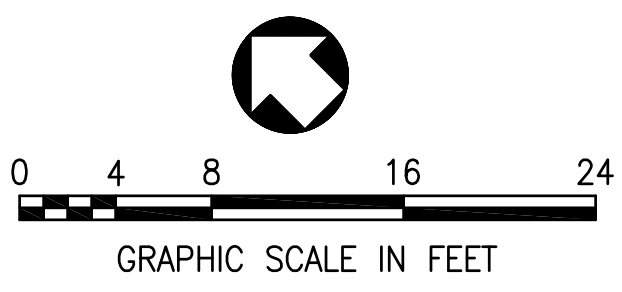
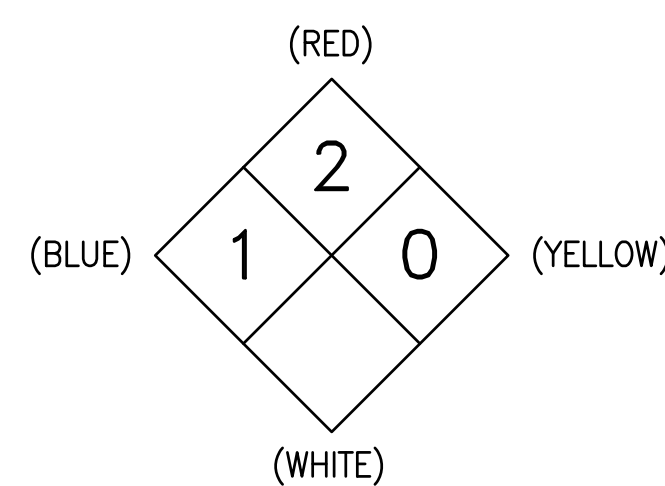
1 ENLARGED PLAN - SOUTH BUILDING
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. ALL (E) ELECTRICAL EQUIPMENT SHALL REMAIN IN PLACE, UNLESS NOTED OTHERWISE (UON).
2. SEAL ALL CONDUIT OPENING AS SHOWN IN DETAILS ON SHEET E-8.
3. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES BEFORE EXCAVATION.

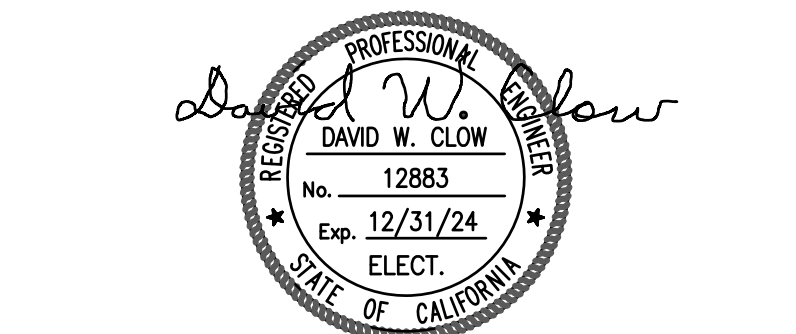
SHEET NOTES:

1. a. COORDINATE A POWER SHUTDOWN WITH PG&E AND OWNER REPRESENTATIVE.
b. DISCONNECT THE (E) PG&E SERVICE CABLES AND ALL OTHER FEEDER CABLES FROM (E) MSB.
c. [RC] (E) IEM SWBD AND INSTALL A NEW SWBD IN THE SAME LOCATION. SEE SHEET E-5 AND E-8 FOR WORK REQUIRED.
d. RECONNECT ALL THE (E) CABLES TO (N) MSB.
2. REMOVE (E) UN-USED EMPTY PANEL AND ADJUST SMALL PANEL LOCATIONS AS NEEDED TO MAKE SPACE FOR GENERATOR PROGRAMMED TRANSFER CONTROLS.
b. COORDINATE WITH PG&E TO RE-CONNECT THE ELECTRIC SERVICE.
3. INSTALL (N) 600 KW GENERATOR. SEE SHEET E-7 FOR DETAILS.
4. 3-4" C WITH CONDUCTORS PER NOTE 4 ON SHEET E-5. 1-1/2" C, 2#10 (GEN START)
- 4A. 1-1/2" C, 3#4 (GEN PANEL) 1#8 (G)
- 4B. 1-1/2" C, 1 - BELDEN 9841 (REMOTE ANNUN) 1 - CAT5 (BLDG EMS)
5. CONDUIT RISES ON OUTSIDE WALL, PENETRATES WALL AND RUNS IN CEILING SPACE.
6. INSTALL CONDUITS IN 24" WIDE TENCH.
7. MAINTAIN (E) PARKING LIGHT CONDUIT AND CONDUCTORS IN OPERATION DURING CONSTRUCTION. REPLACE IF DAMAGED DURING CONSTRUCTION.
8. [RC] UNUSED CB'S AND INSTALL NEW 70A/2P FOR GEN ACCESSORIES PANEL.
9. INSTALL WEATHERPROOF 125 V, 20A, NEMA 5-20R RECEPTACLE AND CONNECT TO 20A CKT BKR IN GEN PANEL WITH 3/4" C, 2#12 AND 1#12 (G).
10. PROVIDE 16"x16" ALUMINUM HAZMAT SIGN. SEE ARCH PLANS.



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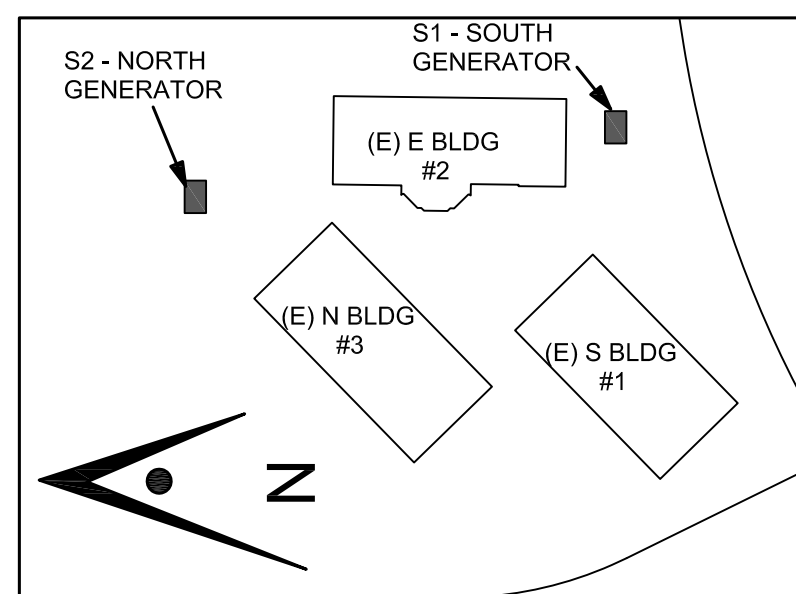
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PROJECT NO. 175-21-07 www.aec-engineers.com

Key Plan



Project Title

BACKUP GENERATOR AT RIDDER PARK

1290 RIDDER PARK DRIVE, MC 254
SAN JOSE, CA 95131

SCCOE

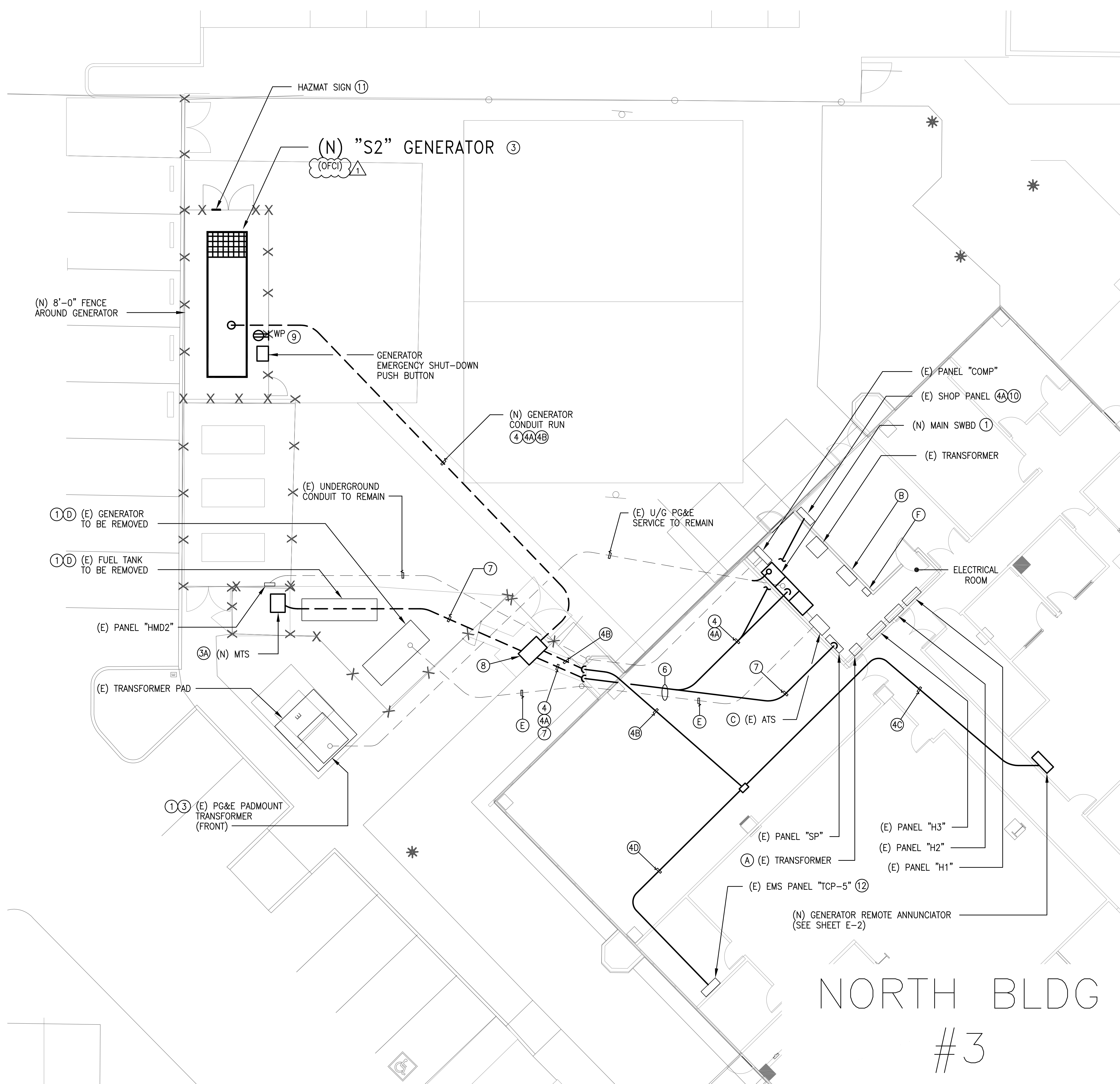
No.	Description	Date
	PLANNING SUBMITTAL	5/26/22
	BUILDING SUBMITTAL	7/11/22
Δ	ADDENDUM 1	8/30/23

Drawing Title

ENLARGED PLAN - SOUTH BLDG #1 SERVICE

Architect Seal

File No.	-	Drawing No.	E-3
Application No.	-		
Date	01/26/23		
Project Number	06401		



1 ENLARGED PLAN - NORTH BUILDING
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. ALL (E) ELECTRICAL EQUIPMENT SHALL REMAIN IN PLACE, UON.
2. SEAL ALL CONDUIT OPENING AS SHOWN IN DETAILS ON SHEET E-8.
3. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES BEFORE EXCAVATION.

DEMOLITION NOTES:

- (A) [RC] UN-USED (E) 25 KVA TRANSFORMER AND [RC] ASSOCIATED CONDUIT AND WIRES. INSTALL PULL BOX FOR CONDUCTORS PER NOTE (4B).
- (B) [RC] UN-USED (E) 150 KVA TRANSFORMER AND [RC] ASSOCIATED CONDUIT AND WIRES.
- (C) [RC] (E) GENERAC 600A ATS AFTER THE (N) GENERATOR IS INSTALLED AND OPERATING.
- (D) [RC] (E) GENERATOR AND [RC] (E) FUEL TANK AFTER THE (N) GENERATOR IS INSTALLED AND OPERATING.
- (E) DISCONNECT AND REMOVE (E) GENERATOR WIRING WHEN NO LONGER NEEDED. REMOVE ABOVE GRADE CONDUIT AND ELECTRICAL EQUIPMENT NO LONGER NEEDED.
- (F) [RC] UNUSED BYPASS CB AND ASSOCIATED CONDUIT.

SHEET NOTES:

- (1) COORDINATE A POWER SHUTDOWN WITH PG&E AND OWNER REPRESENTATIVE.

USE (E) GENERATOR TO PROVIDE TEMPORARY POWER TO (E) PANEL "EM" AND DATA CENTER.

DISCONNECT THE (E) PG&E SERVICE CABLES AND ALL OTHER FEEDER CABLES FROM (E) MSB.

[RC] (E) IEM SWBD AND INSTALL A NEW SWBD IN THE SAME LOCATION. SEE SHEET E-5 AND E-9 FOR WORK REQUIRED.

RECONNECT ALL THE (E) CABLES TO (N) MSB.
- (2) NOT USED.
- (3) INSTALL (N) 600 KW GENERATOR ON CONCRETE PAD.
- (3A) INSTALL (N) 600A MTS ON CONCRETE PAD. SEE ANCHORING DETAIL 3 ON SHEET E-8.
- (4) PROVIDE 24" WIDE TRENCH WITH THE FOLLOWING: 3-4" WITH CONDUCTORS PER NOTE (4) ON SHEET E-5. 1-1/2"C, 2#10 (GEN START)
- (4A) 1-1/2"C, 3#4 (GEN PANEL) 1#8 (G)
- (4B) 1-1/2"C, 1 - BELDEN 9841 (REMOTE ANNUN) 1 - CAT5 (BLDG EMS)
- (4C) 1"C, 1 - BELDEN 9841 (REMOTE ANNUN)
- (4D) 1"C, 1 - CAT5 (BLDG EMS)
- (5) COORDINATE WITH PG&E TO RE-CONNECT THE ELECTRIC SERVICE.
- (6) INSTALL CONDUIT RUNS IN CEILING SPACE.
- (7) INSTALL 2 SETS FEEDERS PER NOTE (5) ON SHEET E-5. SEE SINGLE LINE DIAGRAM ON SHEET E-6.
- (8) INSTALL TRAFFIC RATED PULL BOX WITH INSIDE DIMENSIONS ±36"x60"x42" DEEP AND SLIP RESISTANT COVER, MARKED "ELECTRICAL". PG&E CODE 02-5604 COVER AND 04-3361 VAULT.
- (9) SEE NOTE (9) ON SHEET E-3.
- (10) [RC] UNUSED CB'S AND INSTALL NEW 70A/2P FOR GEN ACCESSORIES PANEL.
- (11) PROVIDE 16"x16" ALUMINUM HAZARD SIGN. SEE ARCH PLANS.
- (12) [RC] (E) GEN ANNUN AND CONNECT (N) EMS CABLE TO EMS PANEL "TCP-5"



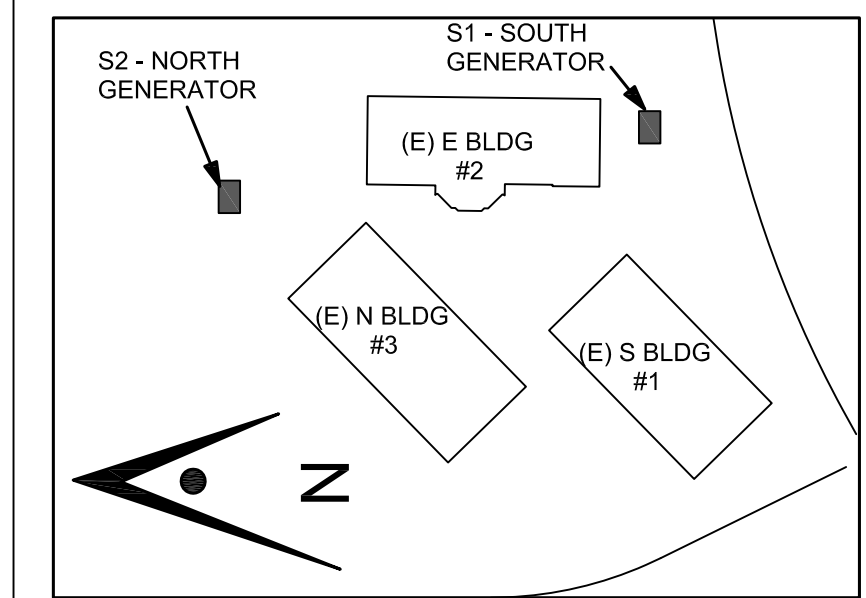
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Key Plan



Project Title

BACKUP GENERATOR AT RIDDER PARK
1290 RIDDER PARK DRIVE, MC 254 SAN JOSE, CA 95131
SCCOE

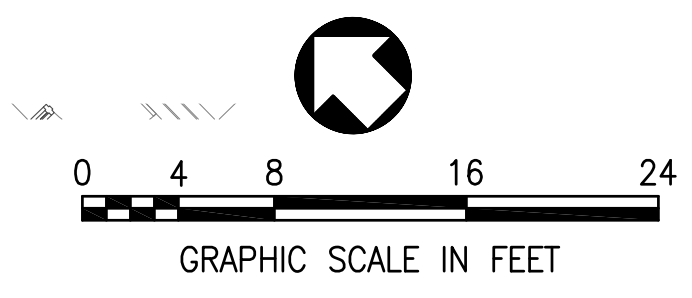
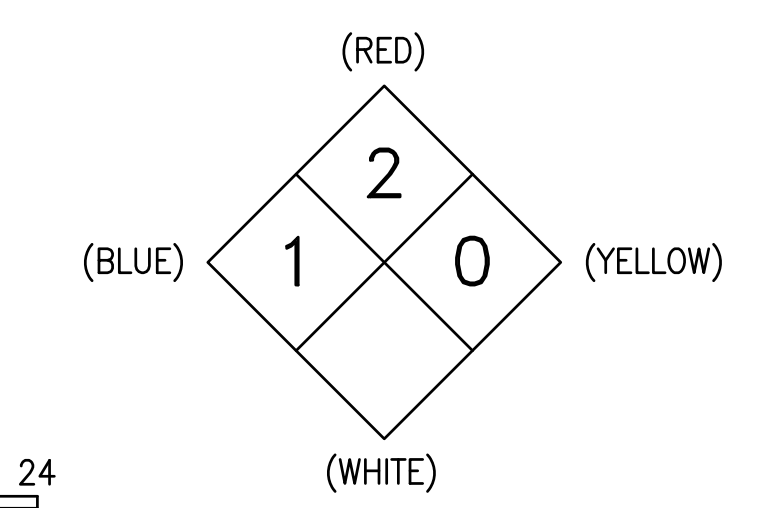
No.	Description	Date
	PLANNING SUBMITTAL	5/26/22
	BUILDING SUBMITTAL	7/11/22
Δ	ADDENDUM 1	8/30/23

Drawing Title

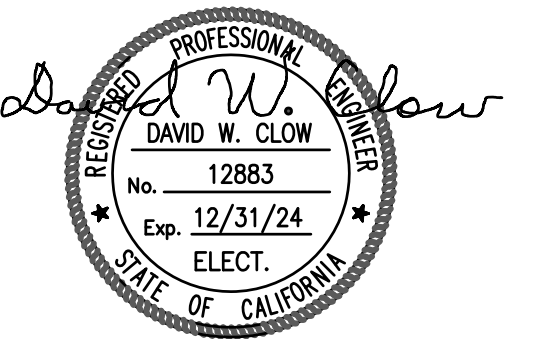
ENLARGED PLAN - NORTH BLDG #3 SERVICE

Architect Seal

File No.	Drawing No.
Application No.	E-4
Date	
Project Number	
	06401

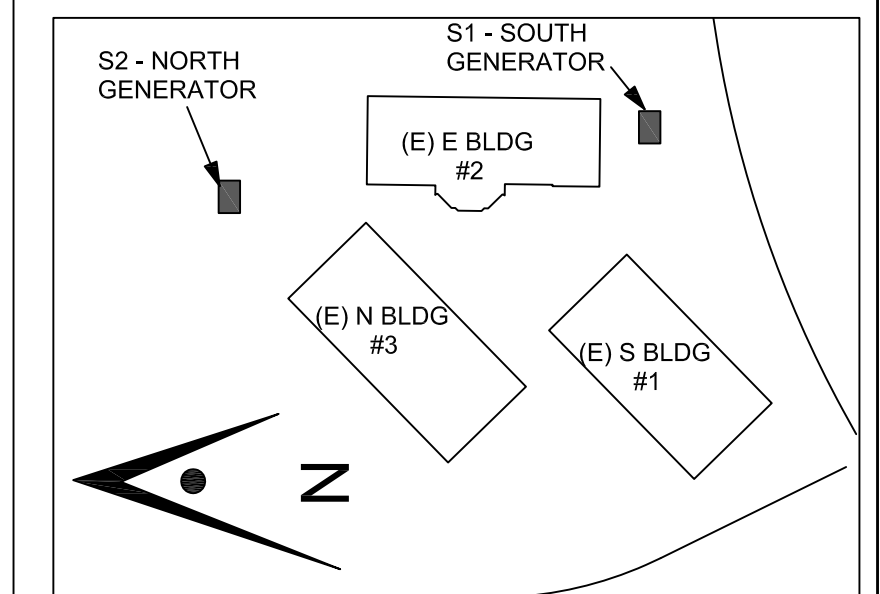


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Key Plan



Project Title

**BACKUP GENERATOR
AT RIDDER PARK**
1290 RIDDER PARK DRIVE, MC 254
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SCCOE

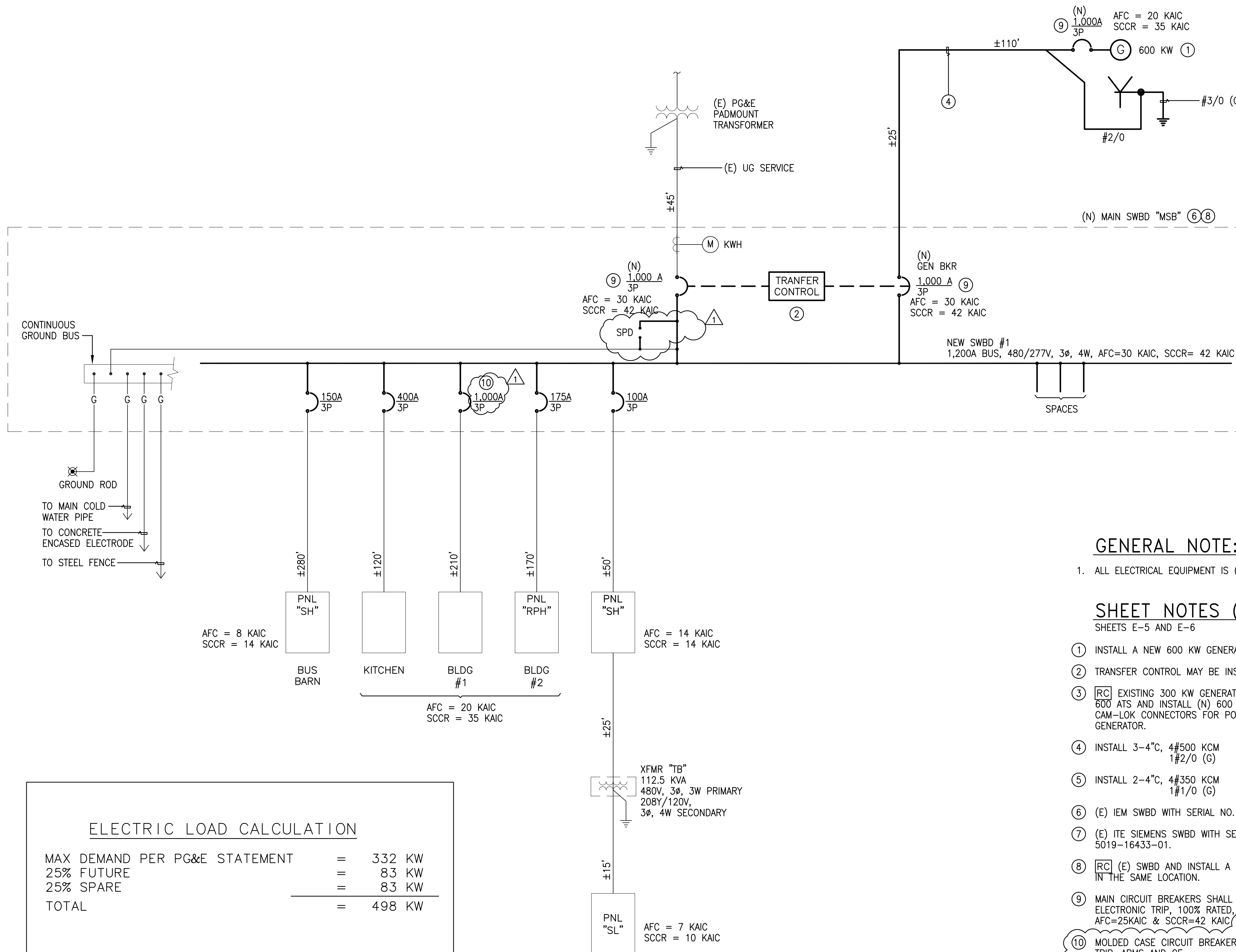
No.	Description	Date
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	BUILDING SUBMITTAL	7/11/22
▲	ADDENDUM 1	8/30/23

Drawing Title

**SINGLE LINE DIAGRAM
BLDG #1**

Architect Seal

File No.	-	Drawing No.	E-5
Application No.	-		
Date	01/26/23		
Project Number	06401		



GENERAL NOTE:

- ALL ELECTRICAL EQUIPMENT IS (E) TO REMAIN, UON.

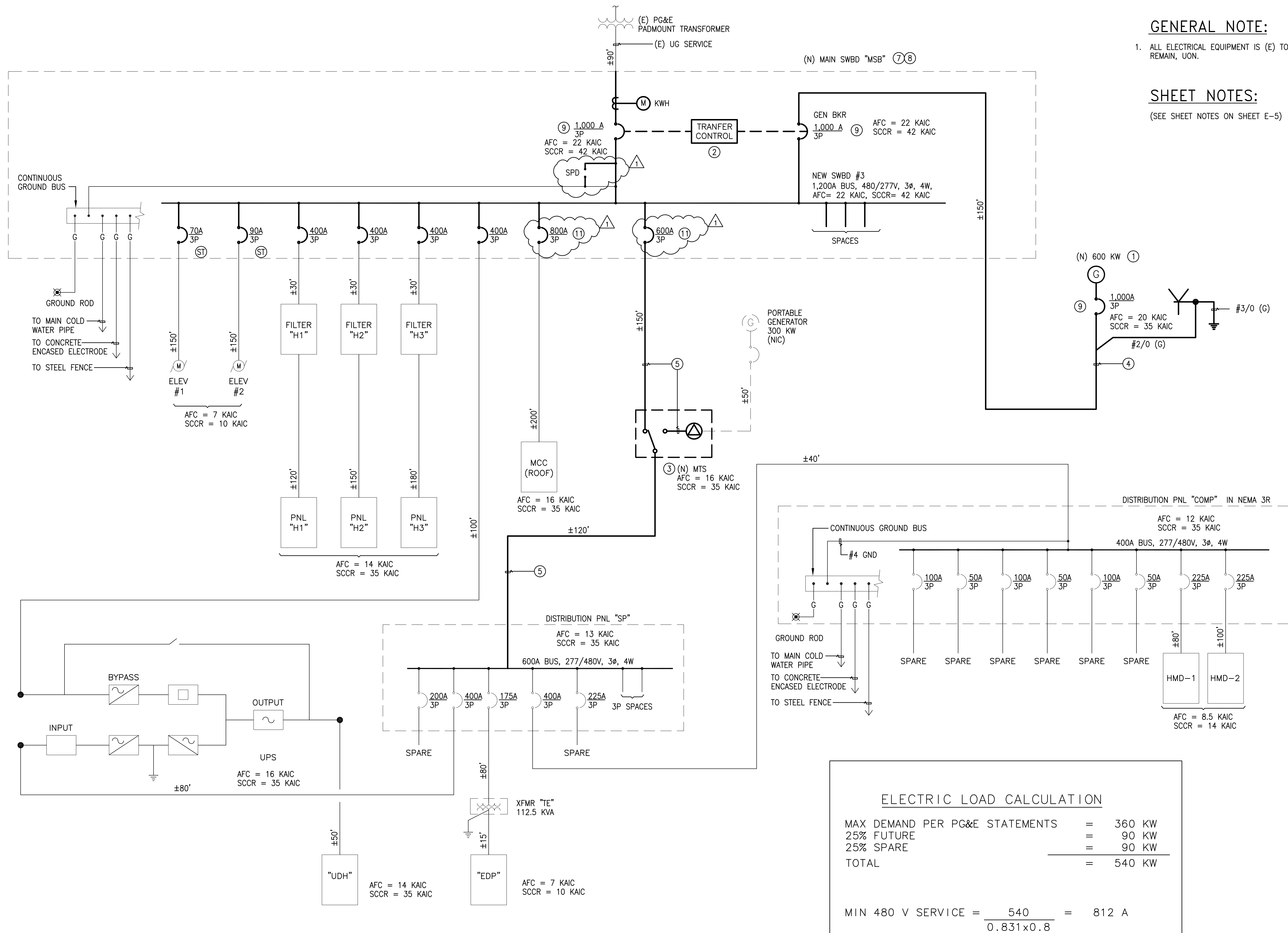
SHEET NOTES (SINGLE LINE DIAGRAMS):

SHEETS E-5 AND E-6

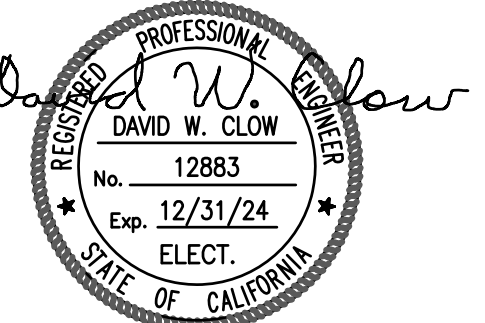
- INSTALL A NEW 600 KW GENERATOR.
- TRANSFER CONTROL MAY BE INSIDE OR OUTSIDE SWBD.
- [RC]** EXISTING 300 KW GENERATOR AND 600 ATS AND INSTALL (N) 600 MTS WITH CAM-LOK CONNECTORS FOR PORTABLE GENERATOR.
- INSTALL 3-4°C, 4#500 KCM 1#2/0 (G)
- INSTALL 2-4°C, 4#350 KCM 1#1/0 (G)
- (E) IEM SWBD WITH SERIAL NO. A371832.
- (E) ITE SIEMENS SWBD WITH SERIAL NO. 5019-16433-01.
- [RC]** (E) SWBD AND INSTALL A NEW SWBD IN THE SAME LOCATION.
- MAIN CIRCUIT BREAKERS SHALL BE CASE, ELECTRONIC TRIP, 100% RATED, 1 SIG, AFC=25KAIC & SCCR=42 KAIC WITH ARMS.
- MOLDED CASE CIRCUIT BREAKER WITH ELECTRONIC TRIP, ARMS AND GF.
- MOLDED CASE CIRCUIT BREAKER WITH ELECTRONIC TRIP.

ELECTRIC LOAD CALCULATION	
MAX DEMAND PER PG&E STATEMENT	= 332 KW
25% FUTURE	= 83 KW
25% SPARE	= 83 KW
TOTAL	= 498 KW
MIN 480 V SERVICE =	$\frac{498}{0.831 \times 0.8} = 749 \text{ A}$

1 SINGLE LINE DIAGRAM
NOT TO SCALE

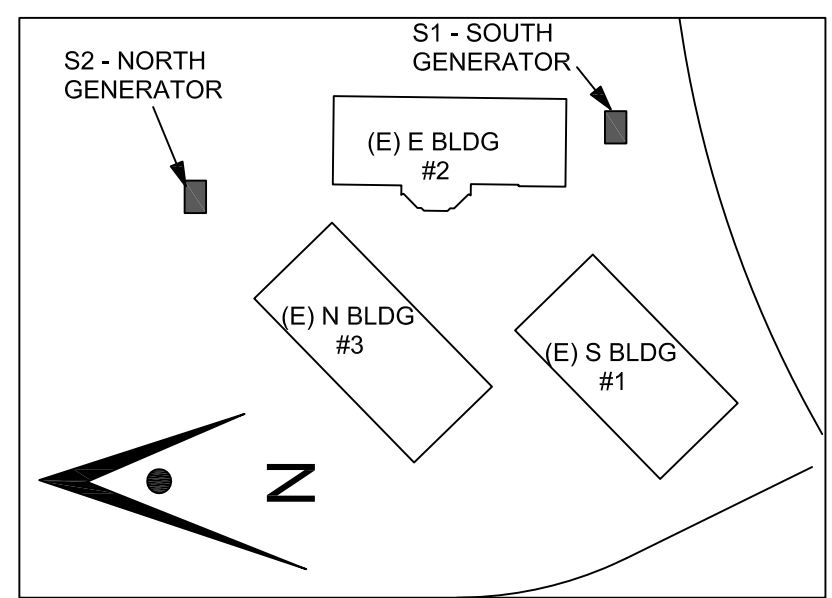


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Key Plan



Project Title

BACKUP GENERATOR AT RIDDER PARK
1290 RIDDER PARK DRIVE, MC 254
SAN JOSE, CA 95131
SCCOE

No.	Description	Date
	PLANNING SUBMITTAL	5/26/22
	BUILDING SUBMITTAL	7/11/22
Δ	ADDENDUM 1	8/30/23

Drawing Title

SINGLE LINE DIAGRAM BLDG #3

Architect Seal

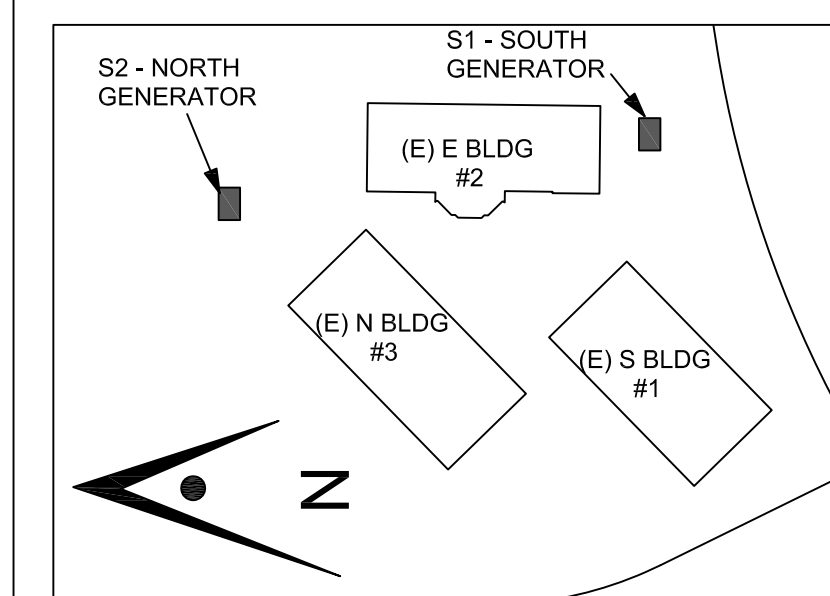
File No.	-	Drawing No.	E-6
Application No.	-		
Date	01/26/23		
Project Number	06401		

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Project Title

**BACKUP GENERATOR
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No.	Description	Date
	PLANNING SUBMITTAL	5/26/22
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△	ADDENDUM 1	8/30/23

Drawing Title

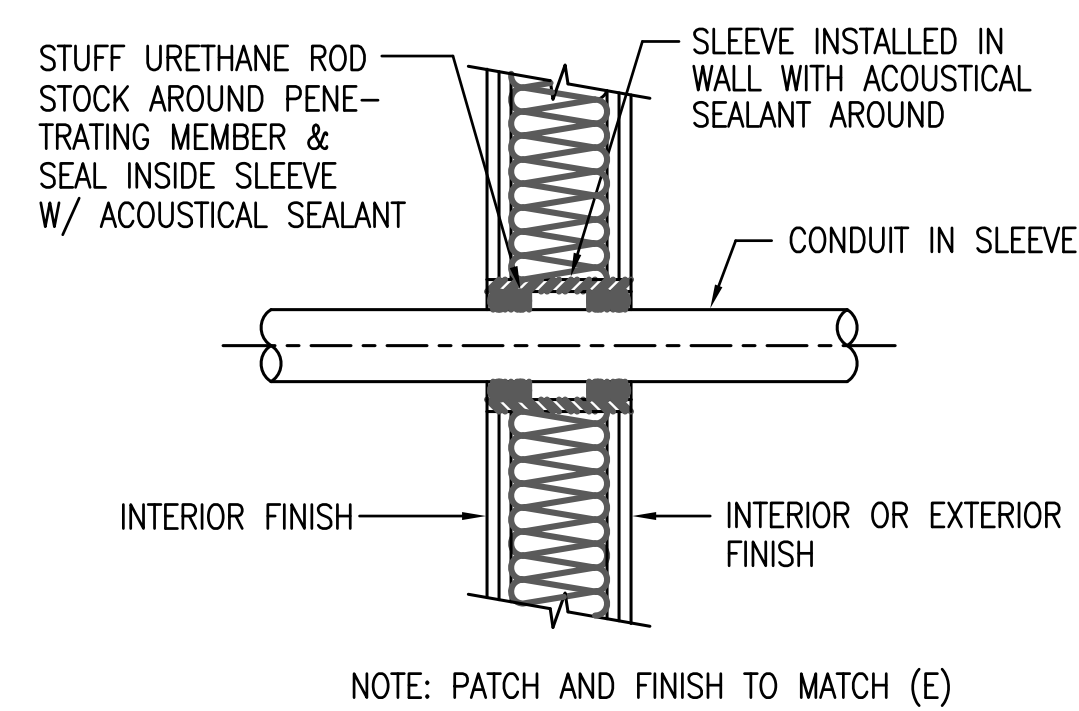
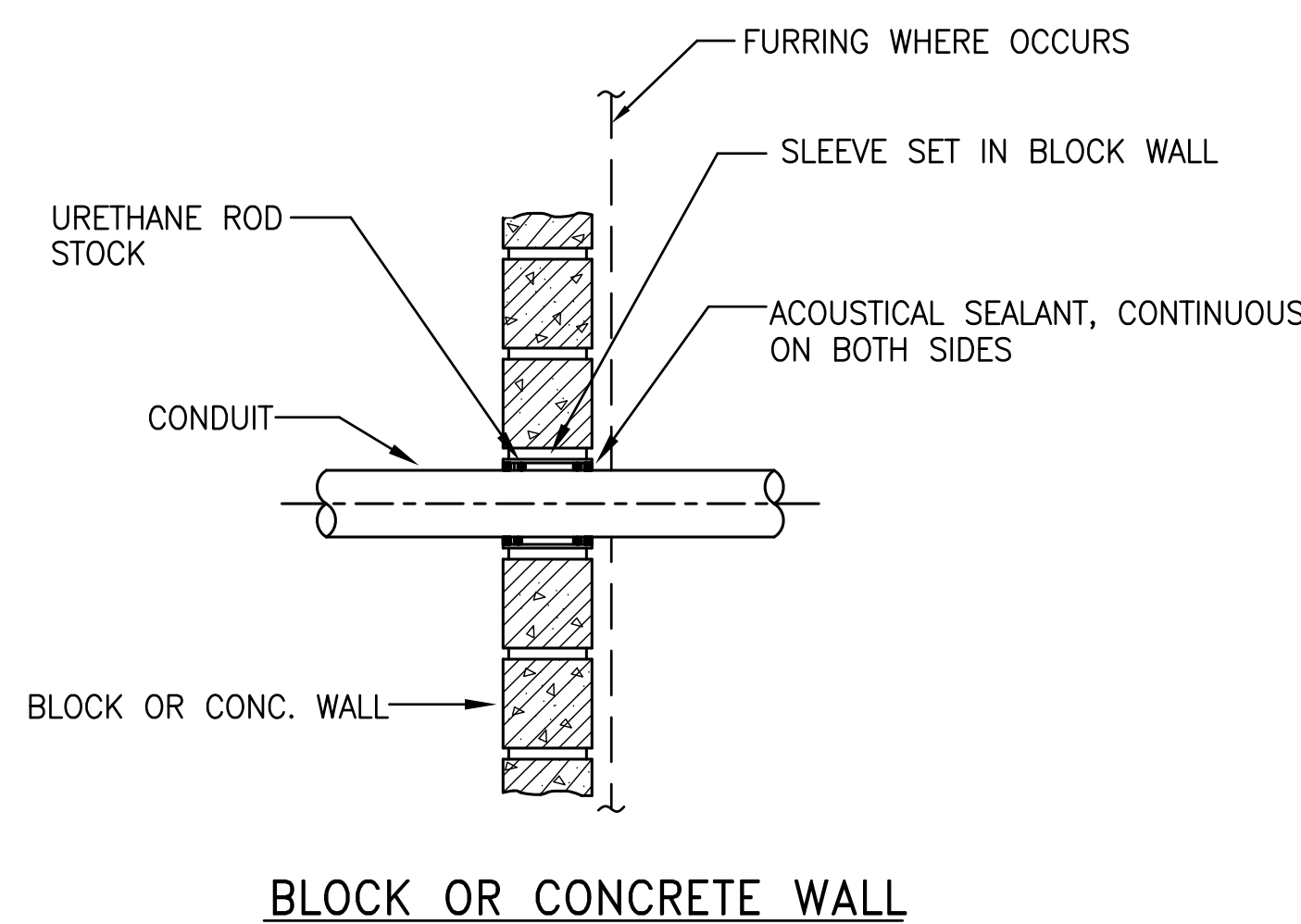
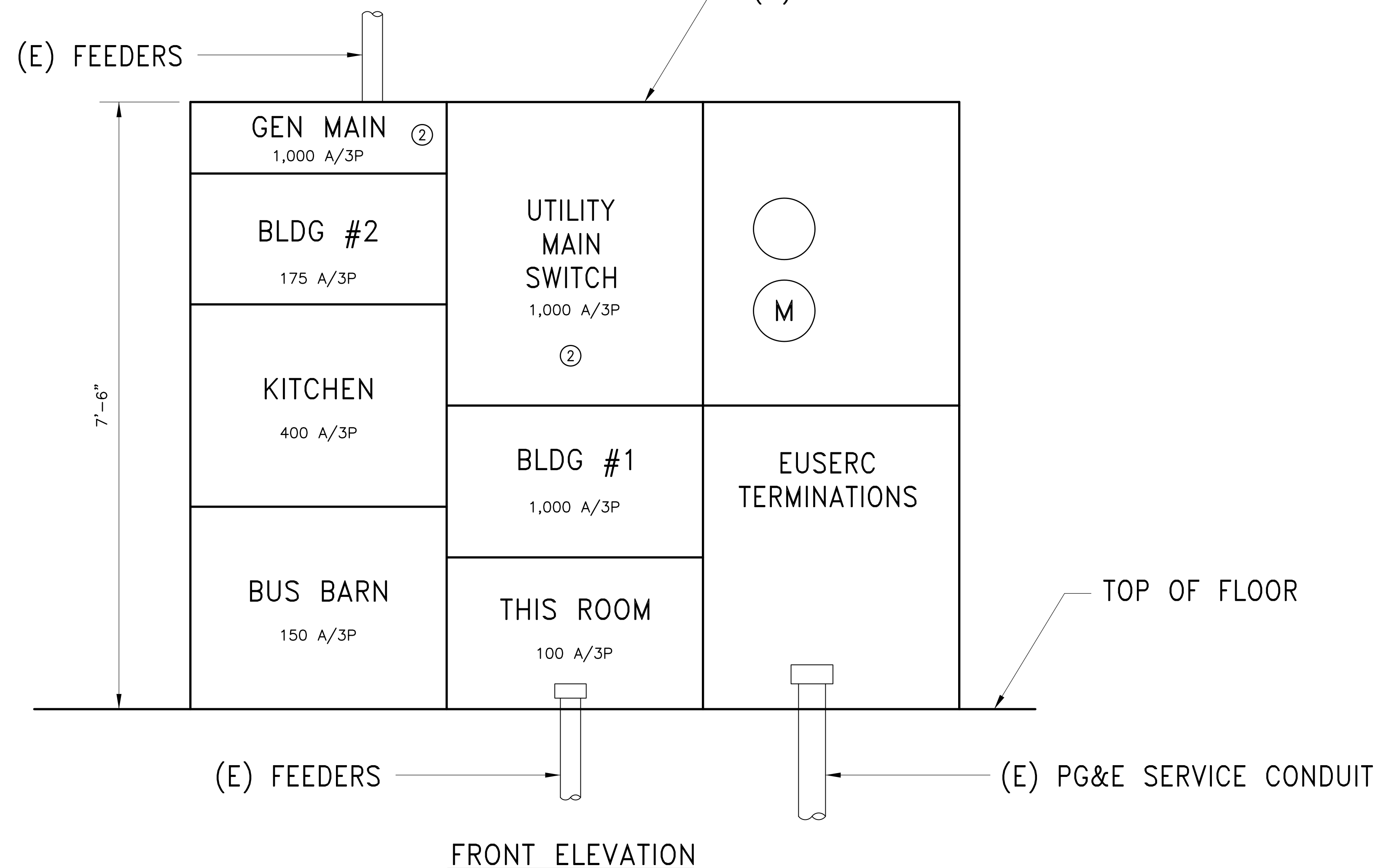
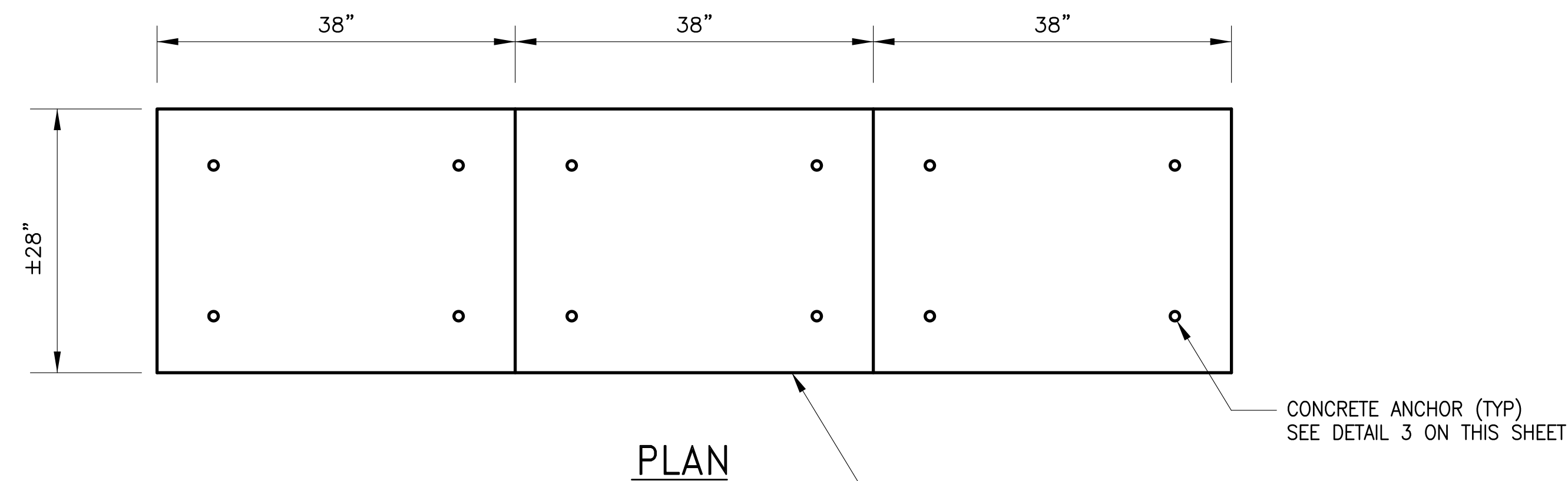
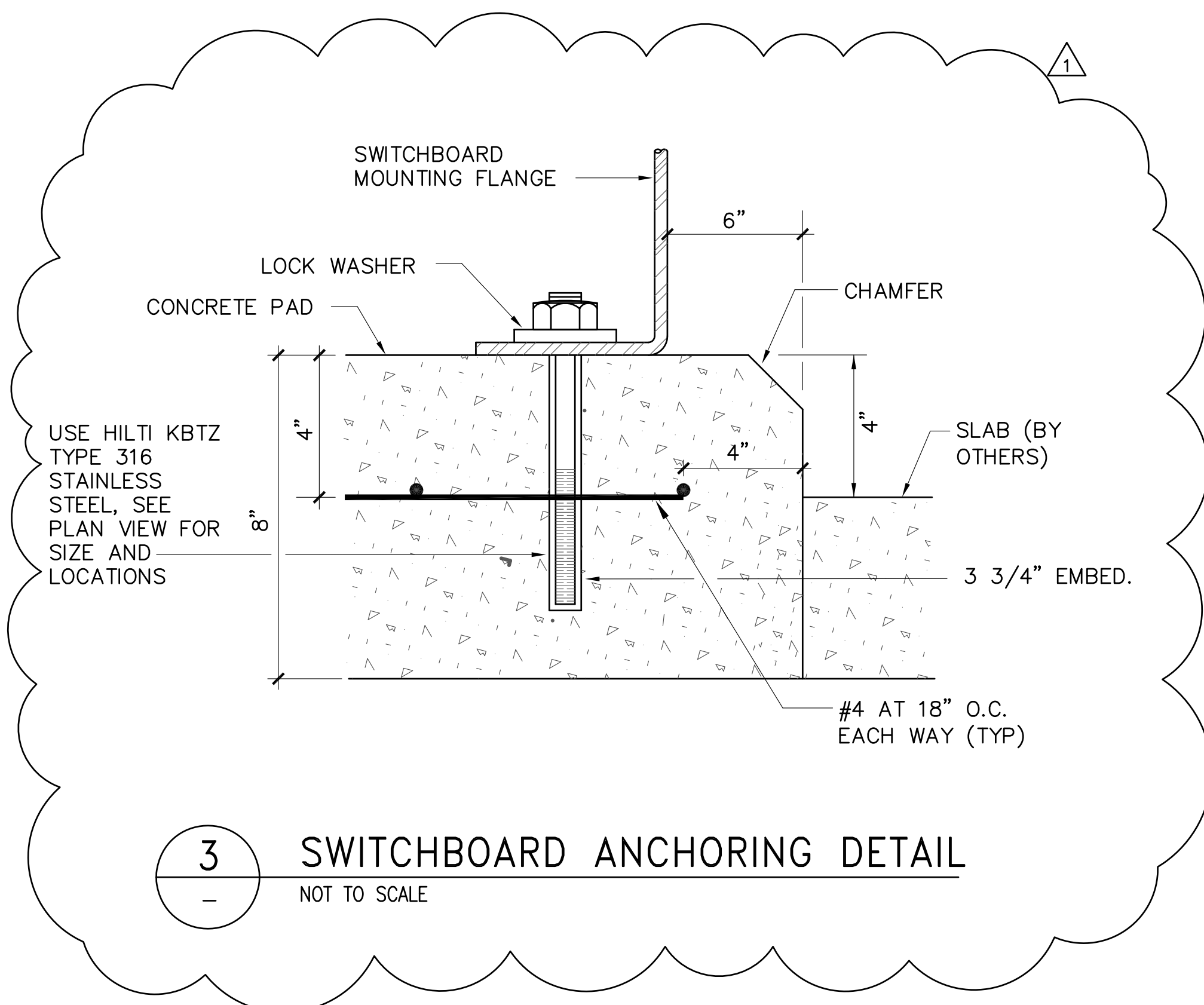
**SWITCHBOARD
DETAILS
BUILDING #1**

Architect Seal

File No.	-	Drawing No.	E-8
Application No.	-		
Date	01/26/23		
Project Number	06401		

SHEET NOTE:





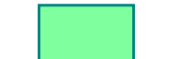

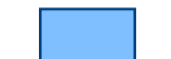


- ① [RC] EXISTING MAIN SWITCHBOARD AND INSTALL NEW MAIN SWITCHBOARD IN THE SAME LOCATION. SEE PLANS FOR DETAILS.
- ② CIRCUIT BREAKERS WITH ELECTRICAL OPERATORS. THE PLC AND PROGRAMMED TRANSFER CONTROLS MAY BE LOCATED IN A SEPARATE CABINET.



STAGING PLAN

RIDDER PARK GENERATOR PROJECT

LEGEND

-  TEMPORARY CHAINLINK FENCE W/ SCREEN & PIPE CLAMPS
-  ACCESS AS REQUIRED. MUST COORDINATE WITH DISTRICT OPERATIONS.
-  TEMPORARY ADA PARKING AND STRIPPING
-  TEMPORARY ACCESS TO THE BUILDING/ SITE.
-  CONTRACTOR ACCESS INSIDE THE BUILDING
-  CONTRACTOR ACCESS ON SITE
-  NO CONTRACTOR ACCESS. COORDINATE WITH SCOE ANY ACCESS TO THE BUILDING
-  CONTRACTOR LAYDOWN AREA. CONTRACTOR TO PROVIDE TRAILER AND UTILITIES. REPAIR ANY DAMAGED AREA, PLANTERS, PARKING, ETC RESTRIPE THE PARKING AFTER THE WORK IS COMPLETED.
-  CONTRACTOR TO PROTECT EXISTING TREES PER SPECIFICATION 01 56 39 (NOT ALL TREES ARE MARKED)

NOTE: CONTRACTOR IS RESPONSIBLE FOR SECURING AND STORING THEIR OWN ALL CONSTRUCTION EQUIPMENT THROUGH ANY MEANS THEY SEE FIT

