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JAN 09 2023

CITY OF PLACERVILLE  
DEVELOPMENT SERVICES DEPT.

**Placerville Planning Commission  
Project Description**

**Tesla – Marshall Medical Center  
Battery Storage System**

This project will place two new Tesla Megapack Outdoor Battery Energy Storage Systems on a new concrete slab located at the rear of the hospital. This system will provide 4 hours of battery back-up in the event of a PG&E power outage and also allow peak energy savings in the warmer months for the facility.

Each Mega Pack is single story, 23 feet 6 inches long by 5 feet 7 inches wide by 8 feet 3 inches tall. There will not be a fence surrounding the Megapacks, but they will be protected from vehicle traffic by concrete bollards. The battery location is surrounded by existing hospital buildings and mechanical yard so it will not be visible from any public street.

Four physician parking spaces will be displaced due to construction of this project, but the removal of the four temporary trailers currently located in Parking Lot H and the remodel of that existing parking lot (project will be submitted for permit) will add 11 parking spaces to the overall site count. (15 new spaces minus the 4 lost to the Tesla project)

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**SITE PLAN REVIEW SUBMITTAL REQUIREMENTS**

The applicant shall provide the following information for Site Plan Review and fill out the checklist below by placing a check mark in the boxes listed under Column A (for Applicant) and signing below. Column S is for staff to verify that your submittal requirements have been met.

**1. GENERAL:**

All application submittals must contain the following:

| A                                   | S                        |   |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a) Signed, completed Planning Application Form  |
| <input type="checkbox"/>            | <input type="checkbox"/> | b) Project Construction Valuation (used by staff to assess application fee)   |
| <input type="checkbox"/>            | <input type="checkbox"/> | c) 2 Copies of a preliminary title report (dated within 90 days)  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | d) Signed, completed Environmental Information Form   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | e) 10 copies of plan sets submitted on 24" x 36" sheets or smaller, drawn to scale and of sufficient size to clearly show all details; one plan set at 8½" x 11" reduction. Note: All plans MUST be folded to 8 ½" x 11", No rolled drawings will be accepted (Check with staff before preparing plan sets).  |
| <input type="checkbox"/>            | <input type="checkbox"/> | f) Electronic copy of plan set in PDF   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | g) Project description: <u>On a separate sheet(s) describe the project</u> including but not limited to: site size, square footage/acreage, number of floors of construction, duration of construction, off-street parking provided, proposed scheduling (desired construction date), anticipated incremental development (project phasing). If residential, include the number of units, schedule of unit sizes, range of sale prices or rents and type of household size expected. If commercial or industrial, indicate the type and major function, estimated number of employees, employee shifts, and delivery loading facilities, number of traffic trips generated daily by employees, truck deliveries, and patrons, estimated occupancy, and community benefits to be derived from the project. |

**2. SITE PLANS:**

All plans must be drawn to standard architect's or engineer's scale at not less than 1"=50', with each sheet folded to 8.5" x 11", and contain the following information:

| A                                   | S                        |   |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a) Sheet numbers, Project name, Architect/Engineer name, address, and phone number                      |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b) Applicant/Representative and Owner name, address and phone number, if different from owner           |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | c) North arrow and scale of illustration; date of preparation and/or revisions                          |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | d) Vicinity map, General Plan Designation, Zoning District, Assessor's Parcel Number                    |
| <input type="checkbox"/>            | <input type="checkbox"/> | e) Land use and Zoning  |
| <input type="checkbox"/>            | <input type="checkbox"/> | f) The total area (acreage or square feet) of the project site  |
| <input type="checkbox"/>            | <input type="checkbox"/> | g) The total number of proposed and existing structures   |
| <input type="checkbox"/>            | <input type="checkbox"/> | h) The area of the site to be covered by buildings and by paved surfaces (%)                            |
| <input type="checkbox"/>            | <input type="checkbox"/> | i) Dimensioned property lines and all building setbacks   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | j) Location, name and <del>width</del> of adjacent streets  |
| <input type="checkbox"/>            | <input type="checkbox"/> | k) Street dedications and improvements  |
| <input type="checkbox"/>            | <input type="checkbox"/> | l) Location and dimensions (width) of drainage swales, watercourses, ponds, lakes, marshes, or wetlands |
| <input type="checkbox"/>            | <input type="checkbox"/> | m) Existing and proposed public and private easements   |
| <input type="checkbox"/>            | <input type="checkbox"/> | n) Dimensioned existing and proposed on and offsite improvements  |
| <input type="checkbox"/>            | <input type="checkbox"/> | o) Dimensioned existing and proposed buildings and square footage                                       |
| <input type="checkbox"/>            | <input type="checkbox"/> | p) Total number of parking spaces required and provided   |
| <input type="checkbox"/>            | <input type="checkbox"/> | q) Dimensioned parking spaces and aisles, traffic flow with directional arrows                          |
| <input type="checkbox"/>            | <input type="checkbox"/> | r) Location and dimensions of proposed walls, fences, trash enclosures and exterior lights.             |
| <input type="checkbox"/>            | <input type="checkbox"/> | s) Location, dimensions color and lettering of all existing and proposed signs                          |
| <input type="checkbox"/>            | <input type="checkbox"/> | t) Drainage system (for parking lot, roof, etc.)  |

|                          |                          |   |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | u) Sewer and water lines (existing and proposed) including easements, including locations of all existing and proposed fire hydrants, backflow preventers, pressure relief valves, etc. |
| <input type="checkbox"/> | <input type="checkbox"/> | v) Existing and proposed contours   |
| <input type="checkbox"/> | <input type="checkbox"/> | w) Location, type, and height of any existing and proposed exterior lighting, complete with photometric analysis prepared by a lighting professional                                    |
| <input type="checkbox"/> | <input type="checkbox"/> | x) Exterior pedestrian circulation pattern, including handicapped-accessible path of travel   |

3. **LANDSCAPE PLANS:** Please consult the City's *Water Efficient Landscape Regulations (Zoning Ordinance Section 10-6-1 to 10-6-17)* and *The City of Placerville Development Guide* for landscape, irrigation and grading design plan requirements and regulations.

| A                        | S                        |  |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | v) Existing and proposed contours  |
| <input type="checkbox"/> | <input type="checkbox"/> | w) Location, type, and height of any existing and proposed exterior lighting, complete with photometric analysis prepared by a lighting professional |
| <input type="checkbox"/> | <input type="checkbox"/> | x) Exterior pedestrian circulation pattern, including handicapped-accessible path of travel  |

4. **ELEVATION PLANS:**

| A                                   | S                        |  |
|-------------------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a) Exterior elevations of all sides of proposed new buildings and additions to existing buildings        |
| <input type="checkbox"/>            | <input type="checkbox"/> | b) Exterior treatment and color scheme   |
| <input type="checkbox"/>            | <input type="checkbox"/> | c) Elevations of trash enclosures, including materials used, colors and finishes                         |
| <input type="checkbox"/>            | <input type="checkbox"/> | d) Size, color and lettering of all proposed signs   |
| <input type="checkbox"/>            | <input type="checkbox"/> | e) Where existing slopes are greater than 10% show typical building sections through the critical slopes |
| <input type="checkbox"/>            | <input type="checkbox"/> | f) Photographs of existing buildings and buildings on adjacent properties, if any.                       |
| <input type="checkbox"/>            | <input type="checkbox"/> | i) All roof equipment, existing and proposed   |

5. **PRELIMINARY GRADING PLANS:**

For projects involving grading or excavation of 50 cubic yards of material or more shall show the following:

| A                        | S                        |   |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | a) Compliance with Chapter 18 & Chapter 33 of the California Building Code  |
| <input type="checkbox"/> | <input type="checkbox"/> | b) Method of erosion control  |
| <input type="checkbox"/> | <input type="checkbox"/> | c) Tree Survey/Arborist Report identifying all trees over 6" diameter at breast height (dbh) that are to be removed or destroyed by grading at the site |
| <input type="checkbox"/> | <input type="checkbox"/> | d) Identification and method for preservation of all trees over 6" dbh  |

6. **ADDITIONAL INFORMATION:**

Staff may determine that some or all of the following may also be necessary for your project:

| A                        | S                        |   |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | a) Preliminary Drainage Plan  |
| <input type="checkbox"/> | <input type="checkbox"/> | b) Color and Materials Board  |
| <input type="checkbox"/> | <input type="checkbox"/> | c) Roof Plan (show slope, materials, location and size of HVAC equipment) |
| <input type="checkbox"/> | <input type="checkbox"/> | d) Sectional Drawings   |
| <input type="checkbox"/> | <input type="checkbox"/> | e) Traffic Study  |

7. **PROJECT SITE POSTING REQUIREMENTS**

Applicant shall provide photo evidence to Development Services that the posting of the project site, see attached *City Of Placerville Policy For Posting Properties For Development Projects*, was completed.

**8. CONSTRUCTION DEVELOPMENT DATA**

The following data is requested so that the City can provide you with necessary information as your project progresses. City Departments and other agencies will review this preliminary data and indicate requirements that must be met to implement the project. **Should you not be able to provide this data or make significant changes in the proposed project, you should be aware that the City and/or other agencies may impose requirements later that could have significant financial implications.**

**A. Building/Classification – California Building Code**

Type BATTERY ENCLOSURE  
 Group(s) \_\_\_\_\_  
 No. Stories \_\_\_\_\_  
 Basement Floor Area \_\_\_\_\_  
 1<sup>st</sup> Floor Area \_\_\_\_\_  
 2<sup>nd</sup> Floor Area \_\_\_\_\_  
 3<sup>rd</sup> Floor Area \_\_\_\_\_  
 Total Floor Area \_\_\_\_\_

| <u>Example</u>                   |               |
|----------------------------------|---------------|
| Type _____                       | V-1 Hr.       |
| Group(s) _____                   | B-2           |
| No. Stories _____                | 2             |
| Basement Floor Area _____        | NA            |
| 1 <sup>st</sup> Floor Area _____ | 5,000 sq. ft. |
| 2 <sup>nd</sup> Floor Area _____ | 2,500 sq. ft. |
| Total Floor Area _____           | 7,500 sq. ft. |

**B. Exterior Walls**

Structure

\_\_\_\_\_ Wood Framed  
 \_\_\_\_\_ Steel Framed  
 \_\_\_\_\_ Masonry  
 \_\_\_\_\_ Concrete  
 \_\_\_\_\_ Brick  
 \_\_\_\_\_ Concrete  
 \_\_\_\_\_ Poured  
 \_\_\_\_\_ Tilt-up  
 Other METAL

Covering

\_\_\_\_\_ Wood  
 \_\_\_\_\_ Plywood Siding  
 \_\_\_\_\_ Wood Siding  
 \_\_\_\_\_ Shingles  
 \_\_\_\_\_ Stucco  
 \_\_\_\_\_ Veneer  
 \_\_\_\_\_ Brick (Thin)  
 \_\_\_\_\_ Tile  
 \_\_\_\_\_ Metal  
 \_\_\_\_\_ Other \_\_\_\_\_

**C. Roof**

Structure

\_\_\_\_\_ Wood Framed  
 Steel Framed  
 \_\_\_\_\_ Concrete

Covering

\_\_\_\_\_ Asphalt Shingles  
 \_\_\_\_\_ Built-Up  
 \_\_\_\_\_ Metal  
 \_\_\_\_\_ Tile  
 \_\_\_\_\_ Wood  
 \_\_\_\_\_ Shingles  
 \_\_\_\_\_ Class B  
 \_\_\_\_\_ Other \_\_\_\_\_

**D. Floor**

Structure

\_\_\_\_\_ Wood Framed  
 \_\_\_\_\_ Steel Framed  
 Concrete  
 \_\_\_\_\_ Other \_\_\_\_\_

Covering

\_\_\_\_\_ Wood  
 \_\_\_\_\_ Carpet  
 \_\_\_\_\_ Other \_\_\_\_\_

**E. Ceilings**

**Structure**

\_\_\_\_\_ Wood Framed  
 Steel Framed  
\_\_\_\_\_ Concrete

**Covering**

\_\_\_\_\_ Gypsum Board  
\_\_\_\_\_ Non Rated  
\_\_\_\_\_ Fire Resistive  
\_\_\_\_\_ Plaster  
\_\_\_\_\_ Suspended  
\_\_\_\_\_ Non Rated  
\_\_\_\_\_ Fire Resistive  
\_\_\_\_\_ Wood  
\_\_\_\_\_ Other \_\_\_\_\_

**Fire Protection**

**Water Supply**

City  
\_\_\_\_\_ EID  
\_\_\_\_\_ Other \_\_\_\_\_

**Fire Hydrant(s)**

60 Feet from nearest fire hydrant to proposed structure(s).

**\*NOTE: If structure(s) is of combustible construction, fire hydrant(s) may have to be installed prior to starting construction.**

**Automatic Fire Extinguishing System(s)**

\_\_\_\_\_ Automatic Sprinkler System  
\_\_\_\_\_ Other \_\_\_\_\_

**Standpipes**

\_\_\_\_\_ Class I  
\_\_\_\_\_ Class II  
\_\_\_\_\_ Class III

**A. Liquefied Petroleum Gas**

Show size and location of tank on Site Plan with dimensions from property lines and structures.

I certify that I have completed and have included all material checked above in the attached application submittal.

Applicant Signature(s):



CRAIG GANES

Print Name

Date:

1/3/23

Print Name



CITY OF PLACERVILLE  
PLANNING APPLICATION

Date: \_\_\_\_\_  
Zoning: \_\_\_\_\_ GP: \_\_\_\_\_  
File No: \_\_\_\_\_  
Filing Fee (PZ) \_\_\_\_\_  
Filing Fee (EN) \_\_\_\_\_  
Receipt No: \_\_\_\_\_

**REQUEST FOR:**

- Annexation
- Boundary Line Adjustment
- Certificate of Compliance
- Conditional Use Permit
- Environmental Assessment
- Environmental Impact Report
- Final Subdivision Map
- General Plan Amendment
- General Plan Consistency
- Historic District Review
- Landscape Plan Review
- Map Amendment
- Merger
- Minor Deviation
- Planned Development
- Preliminary Plan Review
- Sign Package Review
- Amendment
- Site Plan Review
- Temporary Commercial Coach
- Temporary Use Permit
- Tentative Parcel Map
- Tentative Subdivision Map
- Variance
- Zone Change

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**DESCRIPTION:**

[Empty description box]

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ITEMS ABOVE THIS LINE FOR OFFICE USE ONLY

City Ordinance #1577 established a Fee & Service Charge System. In some cases project review will require the services of specialists under contract to do work that City staff cannot perform. In these cases, the applicant shall pay the direct cost of these services plus fifteen percent (15%) for City Administration.

**PROJECT APPLICANT**

NAME MARSHALL MEDICAL CENTER  
MAILING ADDRESS 1100 MARSHALL WAY  
PLACERVILLE CA 95667  
PHONE 530.626.2687  
EMAIL \_\_\_\_\_

**APPLICANT'S REPRESENTATIVE (if different)**

NAME CRAIG GAINES  
MAILING ADDRESS 1100 MARSHALL WAY  
PLACERVILLE, CA 95667  
PHONE 530.626.2896  
EMAIL CGGAINES@MARSHALLMEDICAL.ORG

**PROPERTY OWNER(S)**

NAME MARSHALL MEDICAL CENTER PHONE 530.626.2687  
MAILING ADDRESS 1100 MARSHALL WAY PLACERVILLE CA 95667  
EMAIL ADDRESS \_\_\_\_\_

**SURVEYOR, ENGINEER, ARCHITECT, OR OWNER'S REPRESENTATIVE (If applicable)**

NAME \_\_\_\_\_ PHONE \_\_\_\_\_  
MAILING ADDRESS \_\_\_\_\_  
EMAIL ADDRESS \_\_\_\_\_

I have notified the mortgage holder, which is: \_\_\_\_\_

**DESCRIPTION OF PROPERTY (Attach legal deed description)**

STREET ADDRESS 1100 MARSHALL WAY PLACERVILLE, CA 95667  
ASSESSOR'S PARCEL NO.(S) 004-350-01  
Above described property was acquired by owner on \_\_\_\_\_

Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_  
CITY OF PLACERVILLE  
DEVELOPMENT SERVICES DEPARTMENT—PLANNING DIVISION  
3101 CENTER STREET, PLACERVILLE, CA 95667, (530) 642-5252

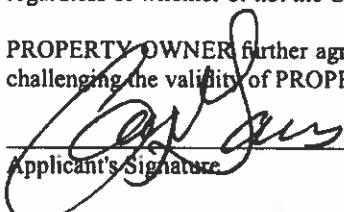
List or attach any Covenants, Conditions or Restrictions, concerning use of property, of improvements contemplated; as well as yard setback and area or height requirements that were placed on the property by subdivision tract developers. Give date said restrictions expire.

I hereby certify that the statements and information contained in this application, including the attached drawings and the required findings of fact, are in all respects true and correct. I understand that all property lines must be shown on the drawings and be visible upon site inspection. In the event that the lines and monuments are not shown or their location found to be incorrect, the owner assumes full responsibility.

I further understand that if this request is subsequently contested, the burden will be on me to establish: that I produced sufficient factual evidence at the hearing to support this request; that the evidence adequately justifies the granting of the request; that the findings of fact furnished by me are adequate, and further that all structures or improvements are properly located on the ground. Failure in this regard may result in the request being set aside, and structures being built in reliance thereon being required to be removed at my expense.

PROPERTY OWNER agrees to and shall hold the CITY, its officers, agents, employees and representatives harmless from liability for damage or claims for damage for personal injury, including death, and claims for property damage which may arise from the direct or indirect operations of the PROPERTY OWNER or those of his contractor, subcontractor, agent, employee or other person acting on his behalf which relate to this project. PROPERTY OWNER agrees to and shall defend the CITY and its officers, agents, employees and representatives from actions for damages caused or alleged to have been caused by reason of the PROPERTY OWNER'S activities in connection with the project. This hold harmless agreement applies to all damages and claims for damages suffered or alleged to have been suffered by reason of the operations referred to in this paragraph, regardless of whether or not the CITY prepared, supplies or approved plans or specifications or both for the project.

PROPERTY OWNER further agrees to indemnify, hold harmless, pay all costs and provide a defense for CITY in any action challenging the validity of PROPERTY OWNER'S project.

  
Applicant's Signature

CRAIG GANES  
Printed Name of Applicant(s)

12/30/22  
Date

As owner of the property involved in this request, I have read and understood the complete application and its consequences to me as a property owner.

  
Signature of Property Owner

Siri Nelson  
Printed Name of Property Owner

Dec 30, 2022  
Date

\_\_\_\_\_  
Signature of Property Owner

\_\_\_\_\_  
Printed Name of Property Owner

\_\_\_\_\_  
Date

NOTICE: Section 10-3-9 of the Placerville Municipal Code prohibits the occupancy of a building or a release of utilities prior to the issuance of a Certificate of Occupancy by the Building Division AND the completion of all zoning requirements and conditions imposed by the Planning Commission or City Council UNLESS a satisfactory performance bond or other acceptable security has been posted to insure completion. VIOLATIONS may result in prosecution and/or disconnection of utilities.

\*\*\*\*\*

A Notice of Public Hearing and Staff Report will be prepared for applications requiring public hearing(s). Staff Report will be sent to the Applicant and Owner. Notices and Staff Reports will be sent via email if addresses have been provided; if not, the documents will be sent to the mailing addresses provided on this form. Please list below any alternate or additional recipients, along with their contact information, or any alternate instructions for sending these materials to the Applicant or Owner.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



File Number: \_\_\_\_\_

Date Filed: \_\_\_\_\_

CITY OF PLACERVILLE

ENVIRONMENTAL INFORMATION FORM  
(To Be Completed By Applicant)

RECEIVED  
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CITY OF PLACERVILLE  
DEVELOPMENT SERVICES DEPT.

This form is required to be completed, returned and accepted as complete by the City prior to the application for the project is determined complete.

A. GENERAL INFORMATION

Project Title or

Name: MARSHALL MEDICAL CENTER TESLA BATTERY STORAGE

City: PLACERVILLE CA 95667

Name of Owner: SIRI NELSON, CEO

Telephone: 530-622-1441

Address: 1100 MARSHALL WAY

Name of Architect, Engineer or Designer: CHRIS MAPESCA

Address: 3500 DEER PARK RD PALO ALTO Telephone: 649-764-8142

Project Location: 1100 MARSHALL WAY PLACERVILLE CA

Assessor's Parcel Number(s): 004-350-01

General Plan Designation: \_\_\_\_\_

Zoning: BP

Property size

Gross (sq. ft./acre): 13 ACRES

Net (sq. ft./acre) (total minus areas of public streets and proposed dedications) : \_\_\_\_\_

\*\*\*\*\*

Please answer all of the following questions as completely as possible.

B. PROJECT DESCRIPTION

1. Type of project and description: SEE ATTACHED
2. What is the number of units/parcels proposed? \_\_\_\_\_
3. What is the gross number of units per acre? \_\_\_\_\_
4. Site Size: \_\_\_\_\_
5. Square footage of each use: \_\_\_\_\_
6. Number of floors of construction: \_\_\_\_\_
7. Amount of off-street parking provided: \_\_\_\_\_
8. Attach plans showing streets, utilities, existing and proposed contours (grading), drainage, all existing large trees (24" in circumference), existing and proposed buildings surrounding uses and/or buildings, landscape areas, parking areas, driveways, pedestrian walkways, exterior lighting, trash collection area, sign locations.
9. Proposed scheduling: \_\_\_\_\_
10. If residential, include the number of units, schedule of unit sizes, range of sale prices or rents, and type of household size expected: \_\_\_\_\_
11. If commercial, indicate the type, whether neighborhood, city or regionally oriented, square footage of sales area, and loading facilities: \_\_\_\_\_

12. If industrial, indicate type, estimated employment per shift, and loading facilities

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13. If institutional, indicate the major function, estimated employment per shift, estimated occupancy, loading facilities, and community benefits to be derived from the project:

---

14. If the project involves a variance, conditional use or rezoning application, state this and indicate clearly why the application is required:

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15. Provide an analysis of traffic generated by the project and how it will impact existing traffic.

16. If the project is in a location of known mining activity, a complete geological analysis shall be submitted.

Are the following items applicable to the project or its effects? Discuss below all items checked yes (attach additional sheets as necessary).

|   | YES                      | NO                                  |
|---|--------------------------|-------------------------------------|
| 17. Change in existing features of any hills or substantial alteration of ground contours.                  | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 18. Change in scenic views or vistas from existing residential areas or public lands or roads.              | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 19. Change in pattern, scale or character of general area of project.                                       | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 20. Significant amounts of solid waste or litter.   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 21. Change in dust, ash, smoke, fumes or odors in vicinity.   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 22. Change lake, stream or ground water quality or quantity, or alteration of existing drainage patters.    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 23. Substantial change in existing noise or vibration levels in the vicinity.                               | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 24. Site on filled land or on slope of 10 percent or more.  | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 25. Use of disposal of potentially hazardous materials, such as toxic substances, flammables or explosives. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 26. Substantial change in demand for municipal services (police, fire, water, sewage, etc.).                | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 27. Substantially increase fossil fuel consumption (oil, natural gas, etc.)                                 | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 28. Is this project part of a larger project or series of projects.   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

## ENVIRONMENTAL SETTING

29. Describe the project site as it exists before the project, including information on topography, soil stability, plants and animals, and any cultural, historical or scenic aspects. Describe any existing structures on the site, and the use of the structures. Attach photographs of the site. Snapshots or Polaroid photos will be accepted. \_\_\_\_\_

PROJECT IS ON THE EXISTING HOSPITAL SITE  
SITE PLAN AND ELEVATIONS INCLUDED IN PACKAGE

30. Describe the surrounding properties, including information on plants and animals and any cultural, historical or scenic aspects. Indicate the type of land use (residential, commercial, etc.), intensity of land use (one-family, apartment houses, shops, department stores, etc.), and scale of development (height, frontage, setback, rear yard, etc.). Attach photographs of the vicinity. Snapshots or Polaroid photos will be accepted. \_\_\_\_\_

SITE IS SURROUNDED BY MEDICAL OFFICE BUILDING  
AND SINGLE FAMILY RESIDENCES

## GEOLOGY AND SOILS

31. Identify the percentage of land in the following slope categories: (The applicant may wish to submit a map showing slopes.)  
\_\_ 0 to 10% \_\_ 11 to 15% \_\_ 16 to 20% \_\_ 21 to 29% \_\_ 30 to 35% \_\_ Over 35
32. Have you observed any building or soil settlement, landslides, rock falls mining or avalanches on this property or in the nearby surrounding area? \_\_\_\_\_  
If yes, please explain: \_\_\_\_\_
33. Describe the amount of cut and fill necessary for the project: \_\_\_\_\_

## DRAINAGE AND HYDROLOGY

34. Is the project located within a flood plain? If so, describe and show area subject to flooding on a map. \_\_\_\_\_
35. What is the distance to the nearest body of water, stream or year round drainage channel? Name of the water body: \_\_\_\_\_
36. Will the project result in the direct or indirect discharge of silt or any other particles in noticeable amounts into any streams? \_\_\_\_\_
37. Will the project result in the physical alteration of a natural body of water or drainage way? If so, in what way? \_\_\_\_\_
38. Does the project area contain any wet meadows, marshes or other perennially wet areas? \_\_\_\_\_ If so, delineate this area on Site Plan.

## VEGETATION AND WILDLIFE

39. What is the predominant vegetative cover on the site (trees, brush, grass, etc.)? Estimate percentage of each: \_\_\_\_\_
40. How many trees of 7.5-inch diameter or 20 feet high will be removed when this project is implemented? \_\_\_\_\_

### FIRE PROTECTION

41. What is the nearest emergency source of water for fire protection purposes? (Hydrant, pond, etc.):  
60'-0" FROM HYDRANT
42. What is the distance to the nearest fire station? \_\_\_\_\_
43. Will the project create any dead-end roads greater than 300 feet in length? \_\_\_\_\_
44. Will the project involve the burning of any material, including brush, trees and construction materials? \_\_\_\_\_

### NOISE

45. Is the project near a heavy commercial area, industrial area, freeway or major highway? If so, how far? \_\_\_\_\_
46. What types of noise would be created by the establishment of this land use, both during and after construction? \_\_\_\_\_

### AIR QUALITY

47. Would any noticeable amounts of air pollution, such as smoke, dust or odors be produced by this project? NO

### WATER QUALITY

48. What is the proposed water source:    EID    City of Placerville    Well    Other
49. What is the water use? (residential, agricultural, industrial or commercial): \_\_\_\_\_

### HAZARDS

50. Is the site listed on California Environmental Protection Agency's Hazardous Site List? \_\_\_\_\_
- If yes, what is the regulatory identification number: \_\_\_\_\_
- Date of list: \_\_\_\_\_

### AESTHETICS

51. Will the project obstruct scenic views from existing residential areas, public lands, public bodies of water or roads? \_\_\_\_\_

### ARCHAEOLOGY/HISTORY

52. Do you know of any archaeological or historical areas within the boundaries or adjacent to the project? (example: Indian burial grounds, gold mines, etc.): \_\_\_\_\_

### SEWAGE

53. What is the proposed method of sewage disposal? N/A  
   Septic System    City Sewer    Other: \_\_\_\_\_
54. Would the project require a change in sewage disposal methods from those currently used in the vicinity? \_\_\_\_\_

**TRANSPORTATION**

- 55. Will the project create any traffic problems or change any existing roads, highways, or existing traffic patterns? \_\_\_\_\_
- 56. Will the project reduce or restrict access to public lands, parks or any public facilities? \_\_\_\_\_
- 57. Will the project change the L.O.S. on any existing roads? \_\_\_\_\_

**GROWTH INDUCING IMPACTS**

- 58. Will the project result in the introduction of activities not currently found within the community? \_\_\_\_\_
- 59. Could the project serve to encourage development of presently undeveloped areas, or increases in development intensity of already developed areas (examples: include the introduction of new or expanded public utilities, new industry, commercial facilities or recreation activities)? \_\_\_\_\_
- 60. Will the project require the extension of existing public utility lines?  If So, identify and give distances: \_\_\_\_\_

**GENERAL**

- 61. Will the project involve the application, use or disposal of potentially hazardous materials, including pesticides, herbicides, other toxic substances or radioactive material? \_\_\_\_\_
- 62. Will the proposed project result in the removal of a natural resource for commercial purposes (including rock, sand, gravel, trees, minerals or top soil)? \_\_\_\_\_
- 63. Could the project create new, or aggravate existing health problems (including, but not limited to flies, mosquitoes, rodents and other disease vectors)? \_\_\_\_\_
- 64. Will the project displace any community residents? \_\_\_\_\_

Discuss any yes answers to the previous questions, use additional sheets if necessary.

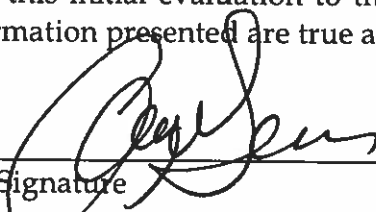
**MITIGATION MEASURES**

Proposed mitigation measures for any of the above questions where there will be an adverse impact, use additional sheets if necessary: \_\_\_\_\_

**CERTIFICATION**

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

\_\_\_\_\_  
Date 1/3/23

\_\_\_\_\_  
Signature 

# TESLA - MARSHALL MED CENTER ENERGY STORAGE SYSTEM APN: 004-350-001

VICINITY MAP



AERIAL MAP



3500 DEER CREEK RD.  
PALO ALTO, CA 94304  
(650) 681-5000

ORIGINAL SIZE 24"x36"  
SHEET SIZE ARCH "D"



AGENCY APPROVAL



HCAI # S220849-09-00

TESLA - MARSHALL MED CENTER  
ENERGY STORAGE SYSTEM  
1100 MARSHALL WAY  
PLACERVILLE, CA 95667

| NO. | REVISION                                | DATE     |
|-----|---|----------|
| A   | POINT OF INTERCONNECTION AT LOW VOLTAGE | 8/8/22   |
| B   | HCAI COMMENTS                           | 10/26/22 |

|             |     |
|-------------|-----|
| COVER PAGE  |     |
| G-001       |     |
| JB-95620807 |     |
| REV: B      | IFP |

**ABBREVIATIONS**

|      |  |         |  |
|------|--|---------|--|
| AC   | ALTERNATING CURRENT                      | LV      | LOW-VOLTAGE                              |
| ADA  | AMERICANS WITH DISABILITIES ACT          | MAX     | MAXIMUM                                  |
| ATS  | AUTOMATIC TRANSFER SWITCH                | MIN     | MINIMUM                                  |
| BESS | BATTERY ENERGY STORAGE SYSTEM            | MV      | MEDIUM-VOLTAGE                           |
| BLDG | BUILDING                                 | (N)     | NEW                                      |
| CLR  | CLEAR                                    | NEC     | NATIONAL ELECTRIC CODE                   |
| CONC | CONCRETE                                 | NIC     | NOT IN CONTRACT                          |
| COMM | COMMUNICATION                            | NRTL    | NATIONALLY-RECOGNIZED TESTING LABORATORY |
| DC   | DIRECT CURRENT                           | NTS     | NOT TO SCALE                             |
| DIA  | DIAMETER                                 | OC      | ON CENTER                                |
| DIST | DISTANCE                                 | PCC     | POINT OF COMMON COUPLING                 |
| EQ   | EQUAL                                    | PL      | PROPERTY LINES                           |
| EGC  | EQUIPMENT GROUNDING CONDUCTOR            | PLC     | POWER LINE COMMUNICATION                 |
| (E)  | EXISTING                                 | POI     | POINT OF INTERCONNECTION                 |
| EA   | EACH                                     | PV      | PHOTOVOLTAIC                             |
| EMT  | ELECTRICAL METALLIC TUBING               | PP      | POWERPACK                                |
| ESS  | ENERGY STORAGE SYSTEM                    | PVC     | POLYVINYL CHLORIDE                       |
| EV   | ELECTRIC VEHICLE                         | RSD     | RAPID SHUTDOWN                           |
| GAB  | GRADED AGGREGATE BASE                    | SCH     | SCHEDULE                                 |
| GALV | GALVANIZED                               | SQ. IN. | SQUARE INCHES                            |
| GEC  | GROUNDING ELECTRODE CONDUCTOR            | SS      | STAINLESS STEEL                          |
| GND  | GROUND                                   | SSD     | SEE STRUCTURAL DRAWINGS                  |
| HVAC | HEATING, VENTILATION, & AIR CONDITIONING | STC     | STANDARD TESTING CONDITIONS              |
| I    | CURRENT                                  | TYP     | TYPICAL                                  |
| IMP  | CURRENT AT MAX POWER                     | UON     | UNLESS OTHERWISE NOTED                   |
| INV  | INVERTER                                 | UPS     | UNINTERRUPTIBLE POWER SUPPLY             |
| ISC  | SHORT CIRCUIT CURRENT                    | VIF     | VERIFY IN FIELD                          |
| KVA  | KILOVOLT AMPERE                          | W       | WATT                                     |
| KW   | KILOWATT                                 |         |  |
| KWH  | KILOWATT-HOUR                            |         |  |

**PROJECT TEAM**

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**DESIGN CRITERIA**

- WIND DESIGN
    - DESIGN WIND SPEED = 105 MPH (ULTIMATE)
    - RISK CATEGORY = IV
    - WIND EXPOSURE = C
  - SEISMIC DESIGN
    - RISK CATEGORY = IV
    - SEISMIC IMPORTANCE FACTOR = 1.5
    - S<sub>S</sub> = 0.441 g, S<sub>1</sub> = 0.206 g
    - SITE CLASS = D
    - S<sub>DS</sub> = 0.425 g, S<sub>D1</sub> = 0.302 g
    - SEISMIC DESIGN CATEGORY = D
    - BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT
    - R = 2.5 / a<sub>p</sub> = 1.0
  - SNOW
    - GROUND SNOW 30 PSF.
- REFERENCED DOCUMENTS**
- MEGAPACK SYSTEM INSTALLATION MANUAL
  - MICROGRID ISLANDING CONTROL SPECIFICATION

**SYSTEM SUMMARY**

**ENERGY STORAGE SYSTEM (ESS)**

| SYSTEM TOTALS                                 |              |
|---|--------------|
| PEAK APPARENT POWER                           | 929.5 kVA    |
| NOMINAL POWER                                 | 929.5 kW     |
| ENERGY RATING                                 | 3986.4 kWh   |
| BATTERY (LITHIUM)                             |              |
| MEGAPACK TYPE                                 | 4 HR         |
| PART #  | 1462965-00-C |
| QTY   | 2            |
| DISCHARGE                                     | 4.29 HR      |
| APPLICABLE CODES                              |              |
| 2019 CALIFORNIA ADMINISTRATIVE CODE           |              |
| 2019 CALIFORNIA BUILDING CODE                 |              |
| 2019 CALIFORNIA ELECTRICAL CODE               |              |
| 2019 CALIFORNIA MECHANICAL CODE               |              |
| 2019 CALIFORNIA PLUMBING CODE                 |              |
| 2019 CALIFORNIA ENERGY CODE                   |              |
| 2019 CALIFORNIA HISTORICAL BUILDING CODE      |              |
| 2019 CALIFORNIA FIRE CODE                     |              |
| 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE |              |
| 2019 CALIFORNIA REFERENCED STANDARDS CODE     |              |
| 2019 CALIFORNIA EXISTING BUILDING CODE        |              |

**(E) BUILDING DATA**

**OCCUPANCY DESCRIPTION:**  
OSHPD 1: HOSPITAL

**OCCUPANCY CLASSIFICATION:**  
I-2

OSHPD FACILITY #: 10112

OSHPD BUILDING #: BLD-00489

IT IS THE INTENT OF THE CONSTRUCTION DOCUMENT IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH 2019 CBCS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2019 CBCS, AMENDED CONSTRUCTION DOCUMENTS (ACDS) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY HCAI.

**PROJECT SCOPE**

INSTALLATION OF OUTDOOR BATTERY ENERGY STORAGE SYSTEM.

NEW CONCRETE SLAB WITH TESLA ENERGY STORAGE EQUIPMENT.

INSTALL OF NEW PAD MOUNTED SWITCHBOARD (SB-1) WITH NEW UTILITY AC DISCONNECT.

TESLA BATTERY ENERGY STORAGE SYSTEM IS NOT A PART OF THE FACILITIES LIFE-SAFETY EMERGENCY SYSTEM AND IS NOT REQUIRED TO REMAIN OPERABLE FOLLOWING THE DESIGN EARTHQUAKE GROUND MOTION.

SPECIAL SEISMIC CERTIFICATION OF SYSTEM EQUIPMENT IS NOT REQUIRED PER CBC 1705.13.3, CBC 1705A.13.3, AND ASCE 7 SECTION 13.2.2.

**SHEET INDEX**

| SHEET # | SHEET TITLE                     |
|---------|---------------------------------|
| G-001   | COVER PAGE                      |
| G-002   | NOTES                           |
| G-003   | SHUTDOWN & TEMP. GENERATOR PLAN |
| G-004   | SHUTDOWN & TEMP. GENERATOR PLAN |
| E-101   | ELECTRICAL SITE PLAN            |
| E-111   | EQUIPMENT PLAN                  |
| E-112   | EQUIPMENT PLAN                  |
| E-200   | EQUIPMENT SCHEDULE              |
| E-201   | SINGLE LINE DIAGRAM             |
| E-211   | COMM DIAGRAM                    |
| E-241   | GROUNDING DIAGRAM               |
| E-501   | ELECTRICAL DETAILS              |
| E-601   | CUTSHEETS                       |
| E-701   | LABELS & PLACARDS               |
| E-702   | LABELS & PLACARDS               |
| S-101   | STRUCTURAL SITE PLAN            |
| S-102   | ENLARGED SITE PLAN              |
| S-111   | ELEVATION VIEWS                 |
| S-501   | STRUCTURAL DETAILS              |
| S-502   | STRUCTURAL DETAILS              |
| S-503   | STRUCTURAL DETAILS              |

GENERAL NOTES

ALL WORK SHALL COMPLY WITH ALL STATE AND LOCAL CODES AND ANY OTHER REGULATING AUTHORITIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FROM TESLA OF ANY DISCREPANCIES.
SUBCONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO TESLA FOR APPROVAL BEFORE MAKING ANY CHANGES.
ALL EQUIPMENT SHALL BE MOUNTED AS SHOWN, WHERE DETAILS ARE NOT PROVIDED, CONTRACTOR SHALL USE STANDARD CONSTRUCTION PRACTICES.
ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO MATCH EXISTING FINISHES.
ANY METAL SHAVINGS FROM SITE WORK SHALL BE CLEANED FROM ALL SURFACES WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MY CAUSE RUST, ELECTRICAL SHORT CIRCUITS, OR OTHER DAMAGE.
APPROVALS FROM BUILDING INSPECTORS SHALL NOT CONSTITUTE AUTHORITY TO DEVIATE FROM THE DRAWINGS.
NEW PAVEMENT INSTALLED AS PART OF THIS PROJECT SHALL MATCH EXISTING PAVEMENT SECTION. ASPHALT AND GAB DEPTHS SHALL BE MAINTAINED.

ELECTRICAL NOTES

GENERAL NOTES
1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AS AMENDED BY APPLICABLE STATE AND LOCAL CODES.
2. ALL WIRING SHALL BE MANAGED IN A PROFESSIONAL, WORKMAN-LIKE MANNER AND MUST BE SUPPORTED, SECURED, AND PROTECTED TO PREVENT DAMAGE.
3. AC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED BY PHASE AND SYSTEM PER ART 210.5 OR 215.12. UNLESS OTHERWISE REQUIRED BY ART 210.5(1) OR AHJ, COLOR-CODING OF POWER CONDUCTORS SHALL BE AS FOLLOWS:
CONDUCTOR 277/480V 120/208V
PHASE A BROWN BLACK
PHASE B ORANGE RED
PHASE C YELLOW BLUE
NEUTRAL GRAY WHITE
4. DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED PER ART 210.5 OR 215.12:
CONDUCTOR STD COLOR ALT COLOR
DC+ RED RED-STRIPED
DC- BLACK BLACK-STRIPED
5. TERMINATIONS OF AC, DC, AND COMMUNICATIONS CONDUCTORS SHALL BE PROFESSIONALLY AND LEGIBLY LABELED WITH CIRCUIT SCHEDULE IDENTIFIER, CONDUCTOR SIZE (AS APPLICABLE) AND TERMINATION TORQUE.
6. ALL EQUIPMENT SHALL BE LISTED BY A NRTL IN COMPLIANCE WITH ART 110.3. WHERE EXISTING NRTL LISTING CANNOT BE MAINTAINED, ENGINEERING APPROVAL SHALL BE OBTAINED PRIOR TO EQUIPMENT MODIFICATION, AND THE EQUIPMENT SHALL BE RELISTED BY A SUITABLE NRTL.
7. UNDERGROUND CONDUCTORS & CABLES TO BE INSTALLED IN CONDUIT UON.
8. ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF AT ALL ENTRY INTO BOXES AS REQUIRED BY NRTL LISTING.
9. REFER TO MANUFACTURER'S CURRENT PLANNING AND INSTALLATION MANUAL FOR TORQUE SPECS FOR ALL BOLTS AND TERMINAL CONNECTIONS.
10. ALL CONDUCTOR TERMINATIONS ON BUSSING OR TRANSFORMER SPADES SHALL BE MADE WITH HIGH-PRESS CRIMP LUGS UON.
11. ALL TERMINATIONS OF ALUMINUM CONDUCTORS SHALL BE PROPERLY INSTALLED WITH BEST PRACTICES INCLUDING BUT NOT LIMITED TO:
USE OF TERMINATION EQUIPMENT RATED FOR ALUMINUM AT THE CONDUCTOR TEMPERATURE, CURRENT, AND VOLTAGE
ALLOWANCE FOR MOVEMENT DUE TO THERMAL EXPANSION/CONTRACTION
PROPER COATING OF EXPOSED ALUMINUM WITH ANTI-OXIDIZATION COMPOUND
USE OF CALIBRATED DEVICES TO TORQUE AND MARK TERMINALS TO REQUIRED SETTINGS
12. DUCT SEAL COMPOUND SHALL BE APPLIED WHEREVER CONDUITS TRANSITION INDOOR/OUTDOOR OR UNDERGROUND/ABOVEGROUND. REFER TO EQUIPMENT NOTES FOR ADDITIONAL DUCT SEAL REQUIREMENTS.
13. BELL ENDS SHALL BE INSTALLED WHEREVER CONDUIT ENTERS EQUIPMENT FROM UNDERGROUND AND WHEREVER POTENTIAL FOR DAMAGE TO CONDUCTORS IS PRESENT AT ANY POINT. BELL ENDS SHALL NOT PREVENT THE USE OF GROUNDING FITTINGS OR COUPLERS WHEN REQUIRED.
14. ALL STUB-UPS WITHIN FLOOR-MOUNTED EQUIPMENT SHALL BE 3-5" ABOVE FINISHED GRADE.
15. ALL CONDUITS EXPOSED TO VEHICULAR OR EQUIVALENT PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL.

21. GROUND LUGS SHALL BE RATED FOR THEIR ENVIRONMENT AND CONDITION OF USE.
22. RACEWAY SIZES AS SPECIFIED ARE MINIMUMS AND MAYBE INCREASED IN SIZE.
23. ROUTING OF RACEWAYS AS SHOWN ON PLANS IS APPROXIMATE AND SHALL BE FIELD ADJUSTED AS NECESSARY TO ACCOMMODATE.
24. ALL EXPOSED BUILDING MOUNTED EMT SHALL HAVE RAIN TIGHT COMPRESSION CONNECTORS AND COUPLINGS.
25. RACEWAYS CROSSING STRUCTURAL SEPARATIONS SHALL BE CONSTRUCTED WITH A FLEXIBLE CONNECTION AND ABLE TO ACCOMMODATE THE CALCULATED DIFFERENTIAL MOTION DURING EARTHQUAKES.
26. CONDUIT BENDS SHALL NOT SIGNIFICANTLY CHANGE THE INTERIOR DIAMETER OF THE RACEWAY.
27. FIELD CUT CONDUITS SHALL BE CUT SQUARE AND DE-BURRED.
28. CONDUIT STUBS FOR DC SOURCE CIRCUIT CONDUCTORS SHALL BE STUBBED UNDER THE ARRAY AND INCORPORATE SEALED END FITTINGS.
29. EQUIPMENT GROUNDING & BONDING CONDUCTORS SHALL BE COPPER, MINIMUM #10 AWG. EXPOSED GROUNDING AND BONDING CONDUCTORS SHALL BE UN-INSULATED. IF SUBJECT TO DAMAGE, MINIMUM #6 AWG.
30. ANY METALLIC RACEWAYS CONTAINING A GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED AT BOTH ENDS VIA A LISTED BOND BUSHING PER NEC 250.64(E).
31. ANY GROUNDING ELECTRODDE CONDUCTORS SHALL BE INSTALLED PER NEC 240-64.
32. ANY CONDUITS BELOW 8' FROM FLOOR LEVEL SHOULD BE RMC PER CODE.
33. EXPANSION FITTING IS REQUIRED EVERY 100'.
34. COLD SHRINK SPLICES ONLY ALLOWED IF APPROVED BY ENGINEER.

UTILITY-INTERACTIVE INVERTER LOAD-SIDE INTERCONNECTION NOTES

1. LOAD SIDE INTERCONNECTIONS SHALL COMPLY WITH NEC ART 705.12(B).
2. WHERE THE INTERCONNECTION POINT OCCURS ON FEEDERS, THE FEEDER AMPACITY SHALL NOT BE LESS THAN THE SUM OF ALL THE SOURCES CONNECTED TO THE FEEDER UNLESS THE FEEDER IS PROTECTED ON THE LOAD SIDE OF THE INTERCONNECTION POINT WITH OVERCURRENT PROTECTION NO GREATER THAN THE AMPACITY OF THE FEEDER.
3. TAP CONNECTIONS SHALL COMPLY WITH ART 240.21(B).
4. WHERE THE SUM OF ALL THE OVERCURRENT DEVICE RATINGS ON THE PANEL LOAD SIDE OF A MAIN OVERCURRENT PROTECTION DEVICE ARE LESS THAN THE RATING OF THE PANEL, PERMANENT WARNING LABELS WITH THE FOLLOWING WORDING MUST BE APPLIED:
WARNING: THIS EQUIPMENT FED BY MULTIPLE SOURCES. TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE SHALL NOT EXCEED THE AMPACITY OF THE BUSBAR.
5. WHERE THE SUM OF THE UTILITY OVERCURRENT DEVICE AND 125% OF INVERTER OUTPUT CIRCUIT CURRENT DOES NOT EXCEED 120% OF THE RATING OF THE BUSBAR, THE INTERCONNECTION POINT MUST BE ON THE OPPOSITE END OF THE BUSBAR FROM THE INCOMING UTILITY SOURCE AND A PERMANENT WARNING LABEL MUST BE APPLIED TO THE INTERCONNECTION POINT.
6. LOAD SIDE INTERCONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTRUCTIONS AND SHALL NOT INVALIDATE THE NRTL LISTING OF THE EQUIPMENT. WHERE EXISTING NRTL LISTING CANNOT BE MAINTAINED, EQUIPMENT MUST BE RELISTED BY AN APPROVED NRTL SUITABLE FOR THE EQUIPMENT.

COMMUNICATION NOTES

1. CAT5E/6 SHIELDED CABLE RUNS, WHICH INCLUDE INDIVIDUAL DAISY CHAINS OF INVERTERS FOR DIRECT MONITORING, HAVE A MAXIMUM TOTAL DISTANCE OF 328 FEET (100M) PER CHAIN.
2. RS485 CABLE RUNS, WHICH INCLUDE INDIVIDUAL DAISY CHAINS OF INVERTERS FOR DIRECT MONITORING, HAVE A MAXIMUM TOTAL DISTANCE OF 3280 FEET (1000M) PER CHAIN.
3. SWITCHES, METERS, POWERPACK CONTROLLERS, CT'S, AND PT'S, AND CONDUCTORS MARKED "PRE-INSTALLED" IN THE LINE DIAGRAM WILL ARRIVE TO SITE PRE-INSTALLED WITHIN THE SWITCHBOARD, AND WILL NOT REQUIRE ANY FIELD INSTALLATION OR MODIFICATION OF ANY KIND.

ESS NOTES

GENERAL NOTES
1. REFER TO THE SPECIFIC PRODUCT MANUFACTURER'S INSTALLATION AND OPERATION MANUAL FOR MORE INFORMATION.
2. ENERGY STORAGE SYSTEM (ESS) SHALL BE SERVICED ONLY BY MANUFACTURER-CERTIFIED TECHNICIANS.
3. SECONDARY CONTAINMENT IS NOT REQUIRED FOR THE BATTERY ESS.
4. BATTERY PACK DC CONNECTIONS TO ESS INVERTER SHALL ONLY BE MADE WITH MANUFACTURER-PROVIDED CONDUCTOR HARNESSES.
5. ESS DISCONNECTING MEANS SHALL BE LABELED PER ART 706.7(D). ESS AND INTERCONNECTION SHALL BE LABELED PER ART 706.11.

BATTERY SYSTEM TYPICAL OPERATION:

THE BESS WILL OFFSET PEAK DEMAND CHARGES BY DISCHARGING DURING PERIODS OF HIGH DEMAND DIRECTLY INTO THE SITE'S ELECTRICAL DISTRIBUTION SYSTEM. THE MONITORING CONTROLS WILL DETECT ELECTRICAL DEMAND PEAKS AND INSTRUCT THE BESS TO DISCHARGE. DURING PERIODS OF LOW DEMAND, THE MONITORING CONTROLS WILL INSTRUCT THE BESS TO CHARGE. DURING GRID OUTAGES, THE ISLANDING SYSTEM WILL DISCONNECT THE SITE FROM THE GRID AND POWER WILL BE PROVIDED BY THE BESS. WHEN GRID IS RESTORED, ISLANDING CONTROL SYSTEM WILL RECONNECT THE SITE TO THE GRID. THE EXISTING ONSITE EMERGENCY GENERATOR(S) REMAIN AND PROVIDE POWER SHOULD POWER NOT BE PROVIDED BY GRID OR BESS.

OFF-GRID COMMISSIONING TEST PROCEDURE

EQUIPMENT SETUP
1. CONFIRM GROUNDING TRANSFORMER CIRCUIT BREAKER IS CLOSED
2. CONNECT C-TERMINAL STRIP INTO BACK OF ISLANDING CONTROLLER
3. ENABLE ISLANDING PARAMETERS IN TESLA INVERTER

INTENTIONAL ISLANDING
1. REMOTELY COMMAND TESLA BATTERY SYSTEM TO INTENTIONAL ISLAND MODE VIA MODBUS COMMAND
2. CONFIRM SYSTEM TRANSITIONS TO TESLA MICROGRID
a. ISLANDING BREAKER HAS OPENED
b. SITE GENERATOR HAS NOT TURNED ON
c. SITE CONTINUES TO HAVE POWER
d. TESLA BESS MONITORING INDICATES SYSTEM IN GRID FORMING MODE
3. REMOTELY COMMAND TESLA BATTERY SYSTEM TO AUTOACTIVE MODE VIA MODBUS COMMAND
4. CONFIRM SYSTEM TRANSITIONS TO UTILITY
a. ISLANDING BREAKER HAS CLOSED
b. SITE GENERATOR HAS NOT TURNED ON
c. SITE CONTINUES TO HAVE POWER
d. TESLA BESS MONITORING INDICATES SYSTEM IN GRID FOLLOWING MODE

UNINTENTIONAL ISLANDING
1. INTERRUPT PHASE A VOLTAGE REFERENCE CIRCUIT BY OPENING TEST SWITCH AT RELAY-IN-A-BOX RIAB
2. CONFIRM SYSTEM TRANSITIONS TO TESLA MICROGRID
a. ISLANDING BREAKER HAS OPENED
b. SITE GENERATOR HAS NOT TURNED ON
c. SITE CONTINUES TO HAVE POWER
d. TESLA BESS MONITORING INDICATES SYSTEM IN GRID FORMING MODE
3. RESTORE PHASE A VOLTAGE REFERENCE CIRCUIT BY CLOSING TEST SWITCH AT RELAY-IN-A-BOX RIAB
4. CONFIRM SYSTEM TRANSITIONS TO UTILITY
a. ISLANDING BREAKER HAS CLOSED
b. SITE GENERATOR HAS NOT TURNED ON
c. SITE CONTINUES TO HAVE POWER
d. TESLA BESS MONITORING INDICATES SYSTEM IN GRID FOLLOWING MODE
e. DOWNLOAD SYNCHROWAVE REPORT FROM ISLANDING CONTROLLER AND CONFIRM MICROGRID PHASE A AND UTILITY PHASE A ARE SYNCHRONIZED PRIOR TO ISLANDING BREAKER CLOSING.

SITE LEGEND

Legend symbols for (E) ACCESSIBLE PARKING SPACE, (E) TREE, (E) LIGHT POLE, (E) UTILITY POLE, (E) FIRE HYDRANT, (E) ELECTRIC MANHOLE, (E) GAS MANHOLE, (E) SANITARY SEWER MANHOLE, (E) STORM MANHOLE, (E) TELEPHONE MANHOLE, (E) TELEVISION MANHOLE, (E) UNKNOWN MANHOLE, (E) POTABLE WATER MANHOLE, (E) FIRE HYDRANT, (E) CLEANOUT, (E) GUY WIRE - ELECTRIC, (E) UTILITY POLE - ELECTRIC, (E) GUY WIRE, (E) UTILITY POLE - TELEPHONE, (E) SPRINKLER HEAD, (E) WATER RISER, (E) GAS VALVE, (E) HOSE BIB, (E) IRRIGATION VALVE, (E) SPRINKLER HEAD, (E) WATER VALVE, (E) SKYLIGHT, (E) OPERABLE SKYLIGHT, (E) HVAC UNIT, (E) VENT PIPE, (E) ROOF ACCESS HATCH, (E) EXHAUST FAN, (E) CONDENSATION CONDUIT LINE, (E) GAS CONDUIT LINE, (E) ELECTRICAL CONDUIT LINE, (E) UNDERGROUND ELECTRIC LINE, (E) UNDERGROUND STORM DRAIN LINE, (E) UNDERGROUND WATER LINE, (E) UNDERGROUND GAS LINE, (E) OVERHEAD ELECTRIC LINE, (E) UNDERGROUND TELEPHONE LINE, (E) UNDERGROUND SANITARY SEWER LINE

TESLA logo and address: 3500 DEER CREEK RD, PALO ALTO, CA 94304 (850) 681-5000. Includes a Professional Engineer seal for Leo Wang, State of California, No. 110433, Exp. 06/30/24.

APPROVED stamp: Department of Health Care Access and Information, Facilities Development Division. Date: 11/28/2022, 4:45:42 PM. S220849-09-00. Tony Tan.

TELSA - MARSHALL MED CENTER ENERGY STORAGE SYSTEM
1100 MARSHALL WAY PLACERVILLE, CA 95667

Table with columns: NO., REVISION, POINT OF INTERCONNECTION AT LOW VOLTAGE, HCAI COMMENTS, DATE. Contains revision history for HCAI # S220849-09-00.

NOTES section with title G-002 and drawing number JB-95620807. Includes fields for REV: B and IFF.

## SHUTDOWN PROCEDURE

### CEC 517.30 ALTERNATE POWER SOURCE NOTES:

1. FACILITIES MANAGER CONFIRMED EXISTING 1500KW / 1875 KVA GENERATOR IS CAPABLE OF POWERING ALL CRITICAL LOADS DURING THE SHUTDOWN. THE GENERATOR IS TESTED MONTHLY, AND THE FACILITY HAS A PROGRAM FOR HOW TO RUN DURING PG&E OUTAGES.
2. DURING SHUTDOWN, A NEW 1500 KW /1875 KVA TEMPORARY GENERATOR WILL STAND IN AS THE "REDUNDANT EMERGENCY" SOURCE, AND EXISTING 1500 KW / 1875 KVA GENERATOR WILL REMAIN AS THE "PRIMARY EMERGENCY" SOURCE.
3. THE NEW TEMPORARY GENERATOR WILL BE TEMPORARILY CONNECTED IN PARALLEL TO THE BREAKER OUTPUT OF THE EXISTING GENERATOR VIA TEMPORARY BUSS EXTENSIONS TO ALLOW LANDING OF BOTH THE EXISTING FEEDERS AND TEMPORARY GENERATOR CABLES
4. NOTE THE TEMPORARY GENERATOR SIZE IS EQUAL TO THE EXISTING GENERATOR AND WILL BE EQUIPPED WITH MEANS TO RUN A MINIMUM 24 HOUR DURATION. NO BREAKER DERATING WILL BE REQUIRED.

### PRE-SHUTDOWN CHECKLIST:

1. A SHUTDOWN INTERCONNECTION REPORT IS PRINTED AND ON SITE.
2. A FRESH/UPDATED COPY OF THE PROJECT ELECTRICAL PRINTS IS PRINTED AND ON SITE.
3. NEW GEAR IS PLACED AND ANCHORED.
4. NEW 1500KW/1875KVA GENERATOR SETUP:
  - a. ENSURE THE 2500A GENERATOR CIRCUIT BREAKER IS OPENED AND LOCK OUT / TAGGED OUT (LOTO).
  - b. PREPARE EXISTING GENERATOR BREAKER OUTPUT TERMINALS FOR NEW TEMPORARY BUSBAR EXTENSION BY REMOVING THE EXISTING SEVEN (7) SETS OF CONDUCTORS
  - i. THIS IS TO ALLOW FOR PARALLEL CONNECTION BETWEEN EXISTING HOME RUN TO THE EMERGENCY SWITCHBOARD FOR MSB-4 AND THE NEW TEMPORARY GENERATORS.
  - ii. ENSURE THE BUS EXTENSION IS PROPERLY SUPPORTED BEFORE ATTACHING ANY ADDITIONAL CONDUCTORS.
  - c. RECONNECT THE EXISTING CONDUCTORS TO THE BUS EXTENSIONS FIRST.
  - d. SPECIFY OR FABRICATE A SET OF SEVEN (7) 4/0 AWG FLEXIBLE, OUTDOOR RATED GENERATOR CONNECTION CABLE (TYPE DLO OR EQUIVALENT) WITH ONE END TERMINATED WITH A MALE QUICK CONNECT (CAM-LOCK OR EQUIVALENT) TERMINATION AND THE OTHER UNTERMINATED (BARE).
  - e. CONNECT THE SEVEN (7) SETS OF DLO CABLES FROM THE NEW TEMPORARY GENERATOR TO THE BUSBAR.
  - i. MAKE SURE ANY MECHANICAL TYPE TERMINALS ARE RATED FOR FINE STRANDED CONDUCTORS.
  - f. CONNECT THE MALE QUICK CONNECT (CAM-LOCK OR EQUIVALENT) TERMINATED END OF THE GENERATOR CABLE TO THE GENERATOR TERMINATION BOX ON THE GENERATOR UNIT. SEE MANUFACTURER INSTRUCTIONS.
  - g. CONNECT THE UNTERMINATED OF THE GENERATOR CABLE TO ONE OF THE PORTS ON THE MULTI-CABLE SPLICE TERMINAL.
  - h. PERFORM AN INSULATION TEST OF THE GENERATOR CABLES TO ENSURE NO DAMAGE OR INSULATION BREAKDOWN IS PRESENT.
  - i. IF BREAKDOWN DETECTED, REPLACE CABLE AND RETEST.
5. ENSURE NEW ELECTRICAL EQUIPMENT FOR BATTERY SYSTEM CONTROLS AND MONITORING IS PROPERLY INSTALLED WITHIN THE ELECTRICAL ROOM AND TESTED.
  - a. ALL CONDUITS AND RACEWAYS TO CONTAIN INTERCONNECTING WIRES INTO EXISTING SWITCHBOARD "MSB-4" ARE PREPARED AND ONLY WAITING FOR CONDUCTORS.
6. ROUTE CIRCUIT CONDUCTORS FOR CIRCUIT "AC-1" UP TO THE EXTERIOR PULL BOX
  - a. PERFORM AN INSULATION INTEGRITY BREAKDOWN TEST (INSULATION TEST OR EQUIVALENT) AND RECORD THE RESULTS FOR ANALYSIS. REPAIR ANY CONDUCTOR RUN THAT TESTS OUTSIDE OF SPECIFICATION.
  - b. NEW CONDUCTORS SHALL ACHIEVE AN INSULATION RATING ABOVE 50 MEGAOHMS AT TEST VOLTAGE RATED AT TWO TIMES NOMINAL VOLTAGE. SEAL ALL UNDERGROUND CONDUITS IF ALL TESTS ARE SATISFACTORY.

### SHUTDOWN (APPROXIMATELY 8 HOURS)

1. ENSURE THE TEMPORARY GENERATOR INSTALLED DURING THE PRE-SHUTDOWN CHECKLIST IS FUNCTIONAL AND IN COMPLIANCE WITH CEC 517.30 "SOURCES OF POWER".
2. PREPARE THE SITE FOR MANUAL/FORCE TRANSFER OVER TO THE "PRIMARY EMERGENCY" GENERATOR SOURCE (ENSURING NO CRITICAL OPERATION OR ACTIVITY IS PRESENT AT THIS TIME) AND TRANSFER OVER TO "EMERGENCY" POWER SOURCE ONCE SITE IS READY TO DO SO.
3. ONCE ESSENTIAL ELECTRICAL SYSTEMS ARE SAFELY ON "EMERGENCY" POWER SOURCE, OPEN THE MAIN 4000A BREAKER ON SWITCHBOARD "MSB-4" TO ISOLATE THE REMAINING "MSB-4" BUILDING LOADS. LOCK OUT / TAG OUT (LOTO) OF THE "MSB-4" MAIN BREAKER IS REQUIRED.
4. CONFIRM ALL THE EXISTING AUTOMATIC TRANSFER SWITCHES DETECTED THE LOCAL OUTAGE AT "MSB-4" AND SWITCHED OVER TO THE EMERGENCY SOURCE.
  - a. CONFIRM SITE IS RESTORED TO "EMERGENCY POWER" OPERATION AND ALL THE CRITICAL, EQUIPMENT, AND LIFE SAFETY SYSTEMS ARE PROPERLY ENERGIZED
  - b. IF NO ENERGY IS DETECTED, VERIFY IF THE GENERATOR BREAKER CIRCUIT IS CLOSED
  - c. IF NO ENERGY IS DETECTED AND THE BREAKER OF THE GENERATOR IS CLOSED, PREPARE THE NEW TEMPORARY GENERATOR TO TAKE OVER
    - i. ONCE THE TEMPORARY GENERATOR ACHIEVES STABILIZATION, CLOSE IN THE GENERATOR'S MAIN BREAKER TO ENERGIZE THE BUS
    - ii. RECONFIRM WITH THE HOSPITAL IF ALL THE NECESSARY CIRCUITS ARE STILL PROPERLY ENERGIZED
5. NOTIFY THE STAFF OF THE "SOUTH WING" THAT THE BUILDING IS NOT ON "EMERGENCY" GENERATOR POWER.
6. OPEN THE 175A MEDIUM VOLTAGE FUSE SWITCH LOCATED ON THE MV SERVICE SWITCHGEAR FOR THE 3000KVA TRANSFORMER POWERING THE SOUTH WING TO DE-ENERGIZE THE TRANSFORMER. LOCK OUT / TAG OUT (LOTO) OF THIS SWITCH IS REQUIRED.
7. WITH PROPER PPE EQUIPPED, TEST THE LINE TERMINALS OF THE 4000A MAIN BREAKER WITHIN "MSB-4".
  - a. IF NO HAZARDOUS VOLTAGE DETECTED, HANG GROUNDS TO REMOVE RESIDUAL CHARGE WITHIN THE LINE SIDE BUSSING.
8. CONNECT THE LINE SIDE VOLTAGE REFERENCES FOR THE SEL 700G.
  - a. CONDUCTORS SHALL BE ROUTED FROM SWITCH "SW-3" AND CONNECTED TO THEIR RESPECTIVE PHASES ON THE BUSSING WITHIN "MSB-4".
9. SHIFT AND RELOCATE THE EXISTING BREAKERS WITHIN THE LAST SECTION OF "MSB-4" TO MAKE ROOM FOR THE NEW 1200A, 100% RATED, N-FRAME BREAKER.
  - a. SHIFT BREAKERS AS NEEDED AND REPLACE EXISTING MOUNTING/CONNECTING HARDWARE AS REQUIRED.
10. ROUTE THE CONDUCTORS OF CIRCUIT "AC-1" THROUGH THE UPPER PULL BOXES AND INTO THE EXISTING "MSB-4" AND LAND THE "AC-1" CIRCUIT ONTO THE NEWLY INSTALLED BREAKER.
  - a. PERFORM AN INSULATION INTEGRITY BREAKDOWN TEST (INSULATION TEST OR EQUIVALENT) AND RECORD THE RESULTS FOR ANALYSIS.
  - b. REPAIR ANY CONDUCTOR RUN THAT TESTS OUTSIDE OF SPECIFICATION NEW CONDUCTORS SHALL ACHIEVE AN INSULATION RATING ABOVE 50 MEGAOHMS AT TEST VOLTAGE RATED AT TWO TIMES NOMINAL VOLTAGE.

### RE-ENERGIZATION:

1. REMOVE ANY LOTO INSTALLED ON THE 175A MEDIUM VOLTAGE FUSED SWITCH AND CLOSE IN THE SWITCH.
2. CONFIRM THE 3000KVA TRANSFORMER RE-ENERGIZES AND ALLOW IT TO STABILIZE.
3. REMOVE ANY LOTO INSTALLED ON THE EXISTING MAIN BREAKER ON "MSB-4" AND CLOSE IN THE MAIN BREAKER. VERIFY THE EXISTING AUTOMATIC TRANSFER SWITCHES AUTOMATICALLY REVERT FROM THE "EMERGENCY" POWER SOURCE BACK TO "NORMAL" POWER SOURCE.
4. NOTIFY THE STAFF OF THE "SOUTH WING" THAT THE BUILDING IS CURRENTLY FULLY RE-ENERGIZED BY THE UTILITY.

## TEMPORARY GENERATOR REQUIREMENTS PER OSHPD CAN 2-108

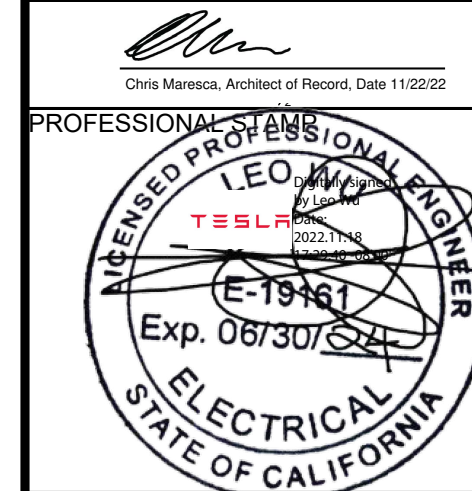
|   |   |
|---|---|
| TEMPORARY EQUIPMENT   | TEMPORARY USE EQUIPMENT MAY BE MOBILE (TRUCK MOUNTED) OR SET ON THE GROUND OR ROOF.   |
| SEISMIC AND WIND DESIGN                                     | SEISMIC DESIGN FOR SUPPORTS, ATTACHMENTS AND SPECIAL SEISMIC CERTIFICATION ARE NOT REQUIRED FOR INSTALLATIONS LESS THAN 30 DAYS. FOR USES 30 DAYS OR GREATER BUT LESS THAN OR EQUAL TO THE DURATION OF THE PROJECT, SEISMIC DESIGN FOR SUPPORTS AND ATTACHMENTS FOR TEMPORARY EQUIPMENT SHALL MEET THE REQUIREMENTS OF CHAPTER 13; HOWEVER, THE CALCULATED FP MAY BE REDUCED BY 50 PERCENT. IT IS ACCEPTABLE TO USE BALLASTS FOR SEISMIC BRACING SUPPORTS AND ATTACHMENTS AND TO LIMIT THE DESIGN CRITERIA TO OVERTURNING UNLESS DIRECTLY OR INDIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. ANTICIPATED DURATION MUST BE SPECIFIED. WIND DESIGN SPEEDS MAY BE REDUCED AS PRESCRIBED IN ASCE 37-14 OR ANOTHER STANDARD APPROVED BY OSHPD. SPECIAL SEISMIC CERTIFICATION OF TEMPORARY EQUIPMENT IS NOT REQUIRED PER CBC SECTION 1705A. 13.3.1 EXC. 12.   |
| PLACEMENT ON EXISTING STRUCTURE                             | PRIOR TO PLACING ANY TEMPORARY EQUIPMENT ON THE ROOF, FLOOR, OR OTHER STRUCTURE, THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE OPERATING WEIGHT OF THE UNIT SHALL BE CONFIRMED AND SUBSTANTIATED BY A LICENSED STRUCTURAL ENGINEER.  |
| EQUIPMENT SERVICE ACCESS AND CLEARANCES                     | CLEARANCE AND ACCESS AROUND THE EQUIPMENT SHALL COMPLY WITH CODE INCLUDING INTERNAL ACCESS TO THE EQUIPMENT WHEN REQUIRED AND PROVISION OF A ROOF GUARD RAIL IF THE ACCESS/SERVICE AREA IS LOCATED WITHIN 10 FEET OF A ROOF EDGE.   |
| SEISMIC DESIGN OF TEMPORARY PIPING, CONDUCTORS AND DUCTWORK | TEMPORARY PIPING, CONDUCTORS AND DUCTWORK SHALL BE SECURED/SUPPORTED. SEISMIC DESIGN FOR SUPPORTS AND ATTACHMENTS OF PIPING, CONDUCTORS AND DUCTWORK IS NOT REQUIRED. FLEX CONNECTORS SHALL BE USED WHERE CONNECTING FROM ANCHORED TO UNANCHORED.   |
| PROTECTIVE BARRIERS   | BARRIERS SHALL BE PROVIDED FOR PIPES, DUCTS AND CONDUCTORS ASSOCIATED WITH TEMPORARY EQUIPMENT TO PROTECT THEM FROM PHYSICAL DAMAGE. IF TEMPORARY UTILITY/SERVICE LINES ARE SUBJECT TO VEHICULAR TRAFFIC THEY SHALL BE COVERED WITH TRAFFIC-RATED PLATES OR PROVIDED WITH OTHER SUITABLE PROTECTION FROM DAMAGE. TEMPORARY FUEL GAS SERVICE SHALL BE PROTECTED AGAINST DAMAGE PER CPC SECTION 1207.0.   |
| PROTECTION OF TEMPORARY ELECTRICAL EQUIPMENT                | TEMPORARY ELECTRICAL EQUIPMENT AND CABLES SHALL BE PROTECTED FROM PHYSICAL DAMAGE AND GUARDED WITH SUITABLE FENCING, BARRIERS, OR OTHER EFFECTIVE MEANS TO LIMIT ACCESS ONLY TO AUTHORIZED AND QUALIFIED PERSONNEL PER CEC ARTICLE 590.   |
| EMERGENCY GENERATORS  | FOR EMERGENCY GENERATORS, 24-HOUR FUEL SUPPLY (6 HOURS FOR SNF) VIA INTEGRAL FUEL TANKS, MOBILE FUEL TRUCKS, OR OTHER APPROVED MEANS, SHALL BE PROVIDED. TASK ILLUMINATION AND RECEPTABLE ARE NOT REQUIRED AT TEMPORARY GENERATOR LOCATION. AN INSTALLATION ACCEPTANCE TEST SHALL BE PERFORMED ON THE TEMPORARY EMERGENCY GENERATOR IN ACCORDANCE WITH NFPA 110, SECTION 7.13.4.1.4 EXCEPT TEST DURATION MAY BE REDUCED TO 30 MINUTES. A TEMPORARY TRANSFER SWITCH (NON-BYPASS ISOLATION TYPE) MAY BE USED AS THE TEMPORARY AUTOMATIC TRANSFER SWITCH. THE TEMPORARY TRANSFER SWITCH MAY BE A SINGLE UNIT, EVEN IF CODE REQUIRES MULTIPLE UNITS FOR THE BRANCH REQUIREMENTS. TEMPORARY GENERATORS SHALL BE LOCATED A MINIMUM OF 25 FEET FROM OUTSIDE AIR INTAKES, AND 5 FEET MINIMUM FROM WINDOWS AND DOORS. TASK ILLUMINATION AND RECEPTABLE SPECIFIED IN 517.33(E) AND 517.43(F) ARE NOT REQUIRED AT OUTDOOR TEMPORARY GENERATOR AND TRANSFER SWITCH(ES) LOCATIONS. REMOTE ALARM ANNUNCIATION AT 24-HOUR STAFFED LOCATION IS REQUIRED. REMOTE SHUTDOWN IS NOT REQUIRED. |
| POWER CABLES  | FLEXIBLE POWER CABLES (CONDUCTORS) CONFORMING TO CEC SECTION 590 MAY BE USED.   |
| ESSENTIAL ELECTRICAL POWER                                  | TEMPORARY MECHANICAL UNITS SHALL BE ON THE ESSENTIAL ELECTRICAL POWER EQUIPMENT SYSTEM, WHEN REQUIRED BY CMC SECTION 316.0.   |
| NOISE, STEAM, ODORS, HAZARDS                                | TEMPORARY EQUIPMENT SHALL BE LOCATED TO MINIMIZE NOISE, STEAM, ODORS, HAZARDS AND UNSIGHTLINESS IN PATIENT-CARE AREAS AND BEDROOMS TO THE EXTENT POSSIBLE. EQUIPMENT SHALL BE GUARDED AGAINST DAMAGE AND LOCATED OUT OF THE NORMAL PATH OF VEHICLES.  |

| TEMPORARY GENERATOR DETAILS             |                    |
|---|--------------------|
| NAMEPLATE POWER                         | 1500 KW            |
| MANUFACTURER                            | CUMMINS            |
| MODEL                                   | 1500DQGAB          |
| INTERNAL AND SPARE TANKS TOTAL CAPACITY | 2314 GALLONS, MIN. |
| FUEL CONSUMPTION                        | 96.4 GPH           |
| TOTAL RUN TIME                          | 24 HOURS MIN       |
| RUN TIME ON FULL TANK                   | 24 HOURS           |
| INTENDED DURATION OF USE                | (8) HOURS          |
| TEMPORARY GENERATOR ON SITE             | (30) DAYS MAX      |

SPARE CAPACITY TO BE PROVIDED BY MOBILE FUEL TANK



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ENERGY STORAGE SYSTEM

1100 MARSHALL WAY  
PLACERVILLE, CA 95667

| NO.   | REVISION  | DATE     |
|---|---|----------|
| A <td>POINT OF INTERCONNECTION AT LOW VOLTAGE <td>8/5/22</td> </td> | POINT OF INTERCONNECTION AT LOW VOLTAGE <td>8/5/22</td> | 8/5/22   |
| B <td>HCAI COMMENTS <td>10/26/22</td> </td>                         | HCAI COMMENTS <td>10/26/22</td>                         | 10/26/22 |
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|                                 |
|---------------------------------|
| SHUTDOWN & TEMP. GENERATOR PLAN |
| G-003                           |
| JB-95620807                     |
| REV: B   IFP                    |



H | G | F | E | D | C | B | A

6

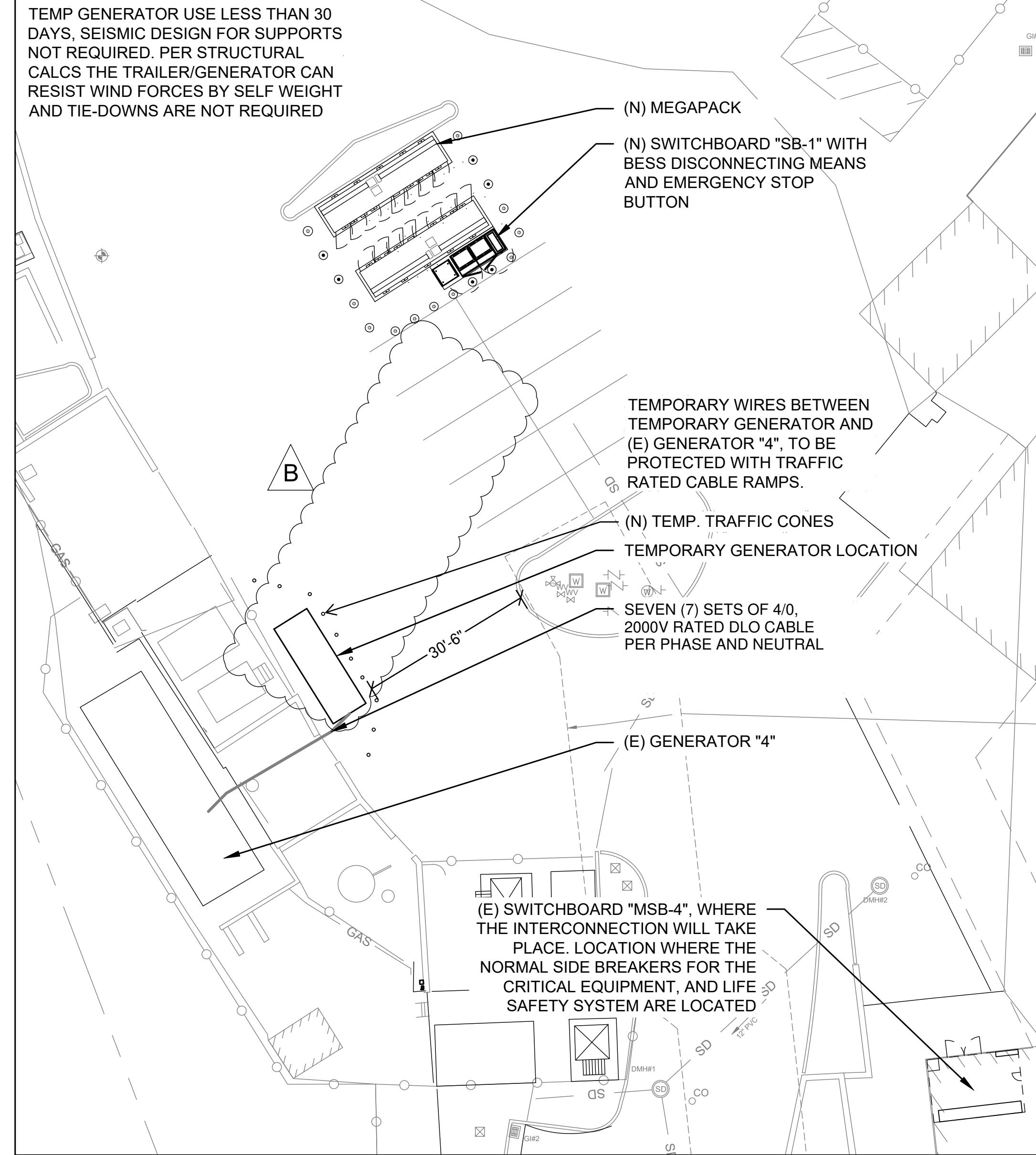
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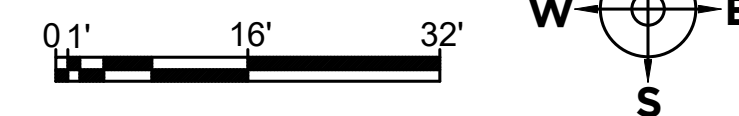
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**TEMPORARY GENERATOR SHUTDOWN PLAN**

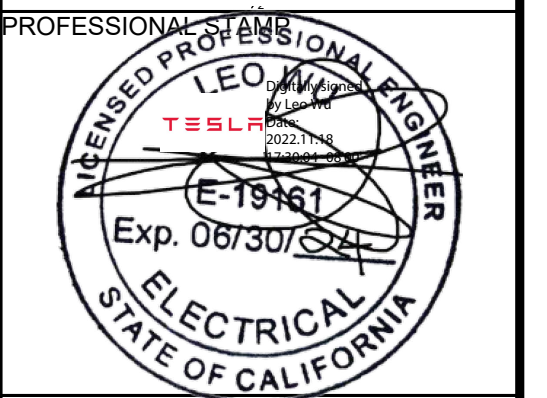
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Chris Marasca, Architect of Record, Date 11/22/22



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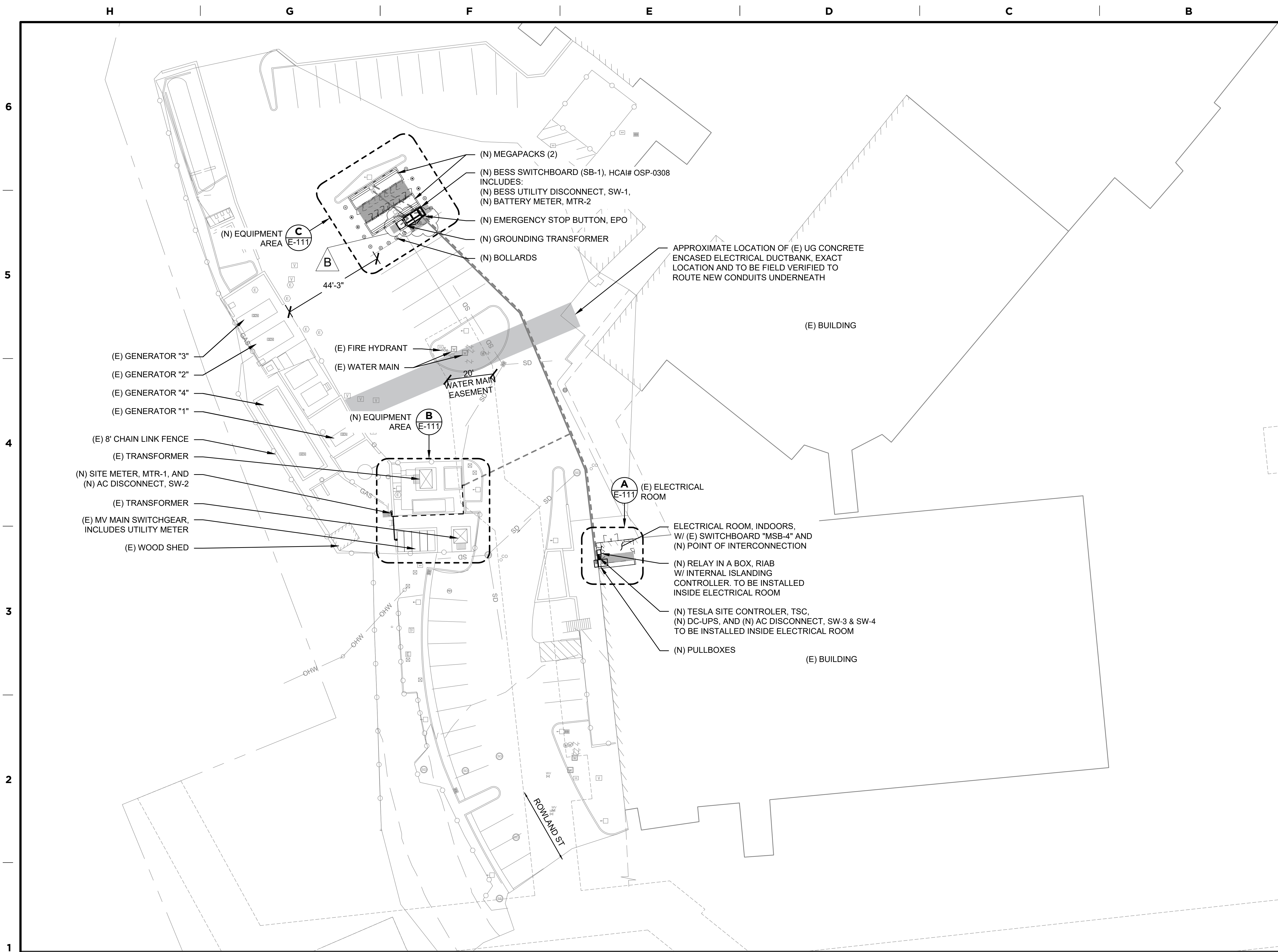
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|-----|---|----------|
| A   | POINT OF INTERCONNECTION AT LOW VOLTAGE | 8/5/22   |
| B   | HCAI COMMENTS                           | 10/26/22 |
|     |   |          |
|     |   |          |

SHUTDOWN & TEMP GENERATOR PLAN

G-004

JB-95620807

REV: B | IFP



### SITE LEGEND

|  |   |
|--|---|
|  | (N) MEGAPACK ENCLOSURE                      |
|  | PROPERTY LINE                               |
|  | (N) CONDUIT FOR POWER                       |
|  | (N) UNDERGROUND CONDUIT FOR POWER           |
|  | (N) CONDUIT FOR COMM. / CONTROL             |
|  | (N) UNDERGROUND CONDUIT FOR COMM. / CONTROL |
|  | (E) FENCE                                   |
|  | (N) CONCRETE BOLLARD                        |
|  | (N) REMOVABLE BOLLARD                       |
|  | WORKING CLEARANCE AREA                      |
|  | (E) UTILITY POLE                            |
|  | (E) SITE BENCHMARK                          |
|  | (E) SANITARY CLEANOUT                       |
|  | (E) STORM MANHOLE                           |
|  | (E) STORM INLET (ROUND)                     |
|  | (E) STORM INLET (RECT)                      |
|  | (E) FIRE HYDRANT                            |
|  | (E) IRRIGATION CNTL VAL.                    |
|  | (E) WATER VAULT                             |
|  | (E) WATER MAIN                              |
|  | (E) LIGHT POLE                              |
|  | (E) ELECTRIC TRANSFORMER                    |
|  | (E) ELECTRIC BOX                            |
|  | (E) ELECTRICAL CABINET                      |
|  | (E) ELECTRICAL VAULT                        |
|  | (E) ELECTRICAL UNKNOWN                      |
|  | (E) GAS UTILITY                             |
|  | (E) PROPANE TANK                            |
|  | (E) UNDERGROUND ELECTRIC LINE               |
|  | (E) UNDERGROUND STORM DRAIN LINE            |
|  | (E) UNDERGROUND WATER LINE                  |
|  | (E) UNDERGROUND GAS LINE                    |
|  | (E) UNDERGROUND SANITARY SEWER LINE         |
|  | (E) OVERHEAD ELECTRIC LINE                  |

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Chris Marzosa, Architect of Record, Date 11/20/22

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 STATE OF CALIFORNIA

AGENCY APPROVAL

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24L C08  
**APPROVED**  
 Department of Health Care Access and Information  
 FACILITIES DEVELOPMENT DIVISION  
 11/28/2022, 4:45:42 PM  
 S220849-09-00  
 Tony Tan

HCAI # S220849-09-00

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1100 MARSHALL WAY  
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| NO. | REVISION                                | DATE     |
|-----|---|----------|
| A   | POINT OF INTERCONNECTION AT LOW VOLTAGE | 8/5/22   |
| B   | HCAI COMMENTS                           | 10/26/22 |

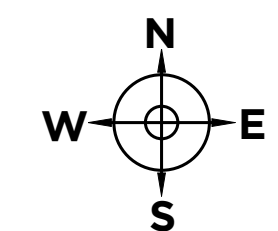
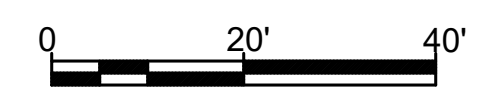
**ELECTRICAL SITE PLAN**

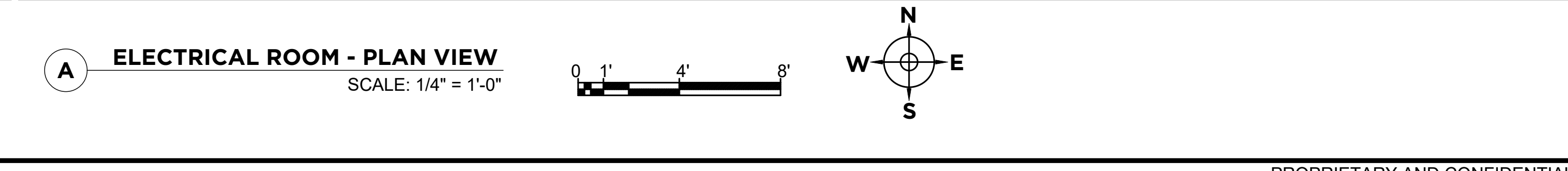
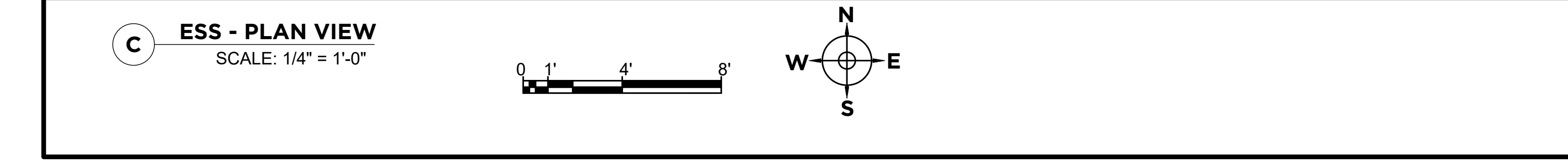
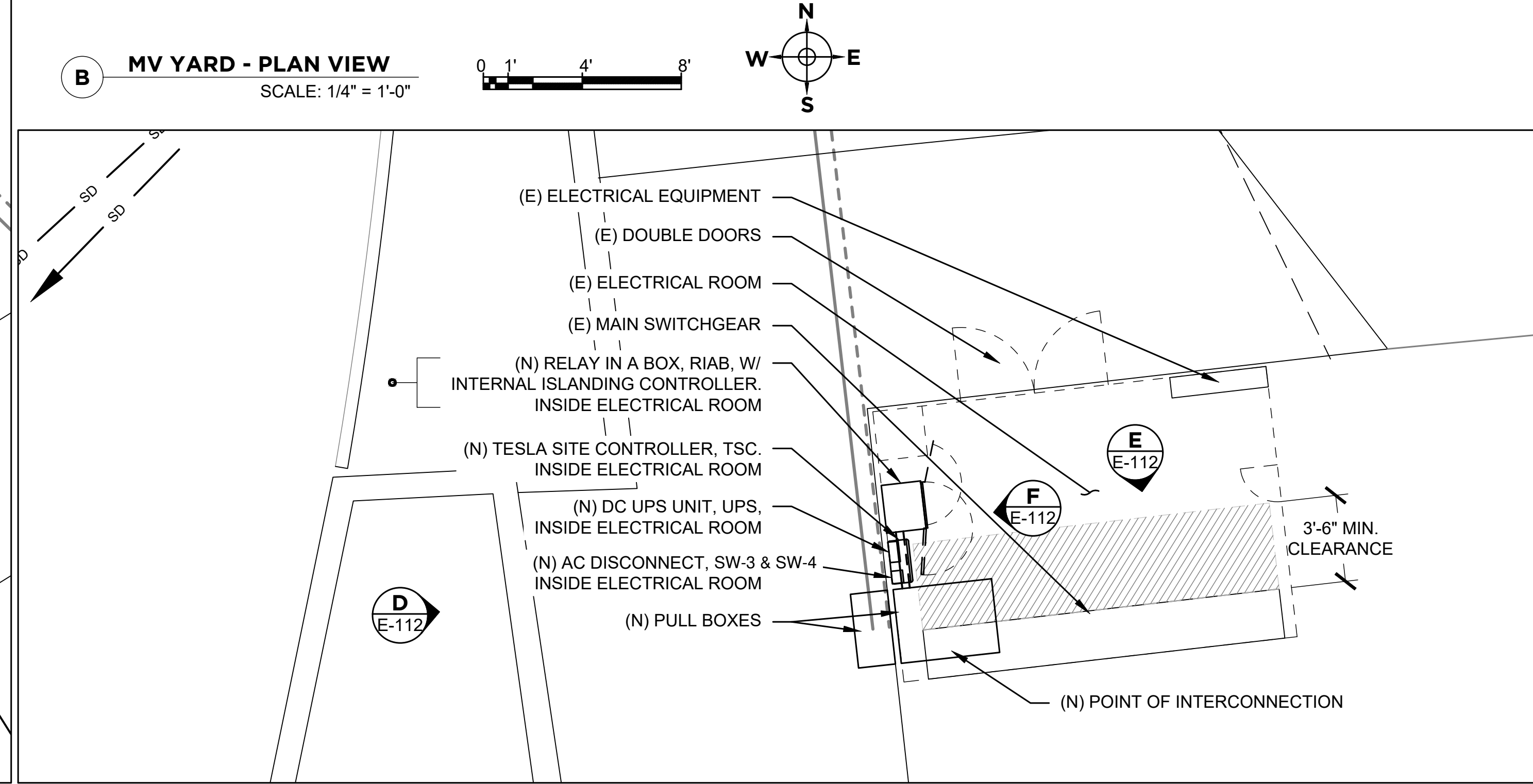
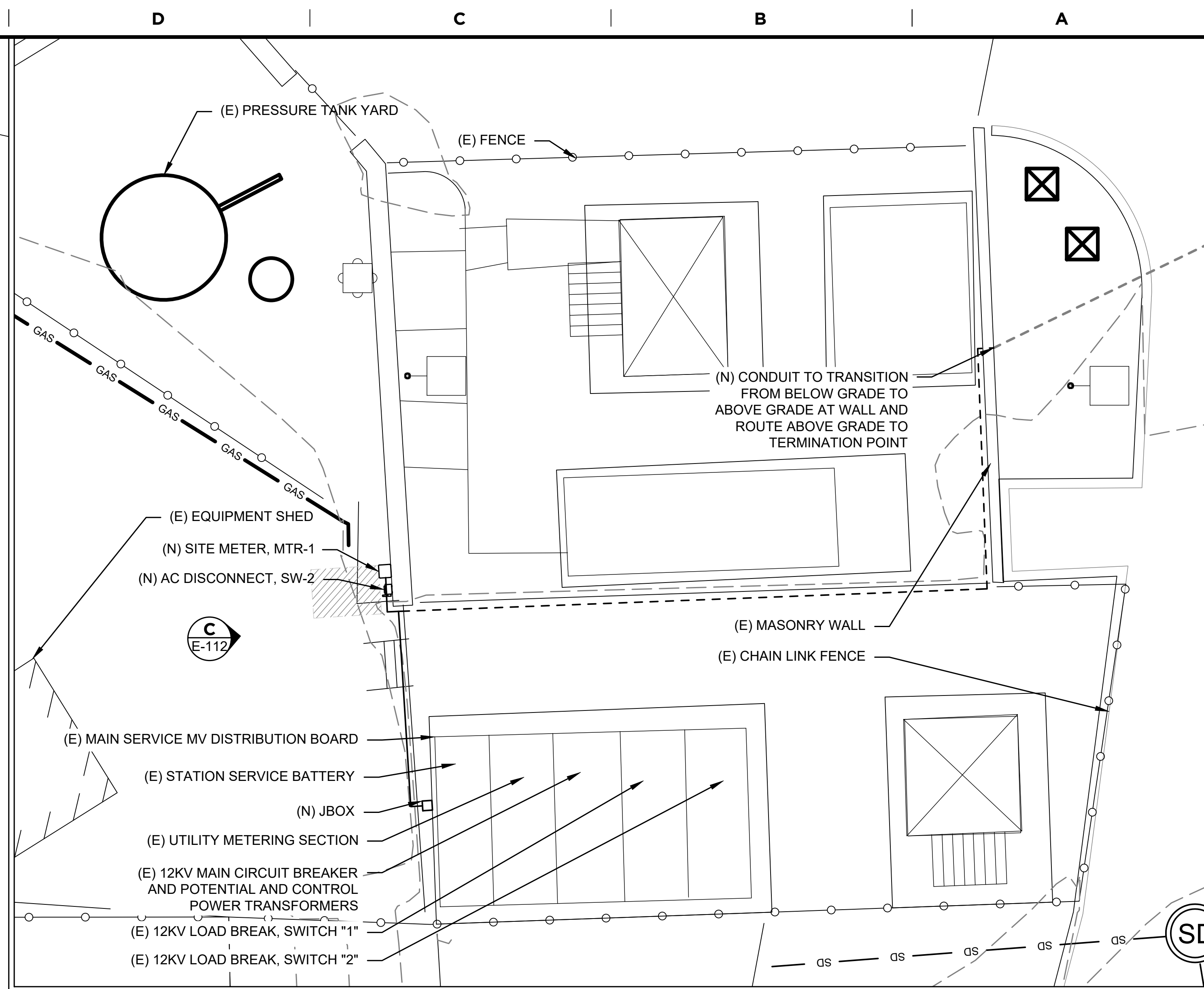
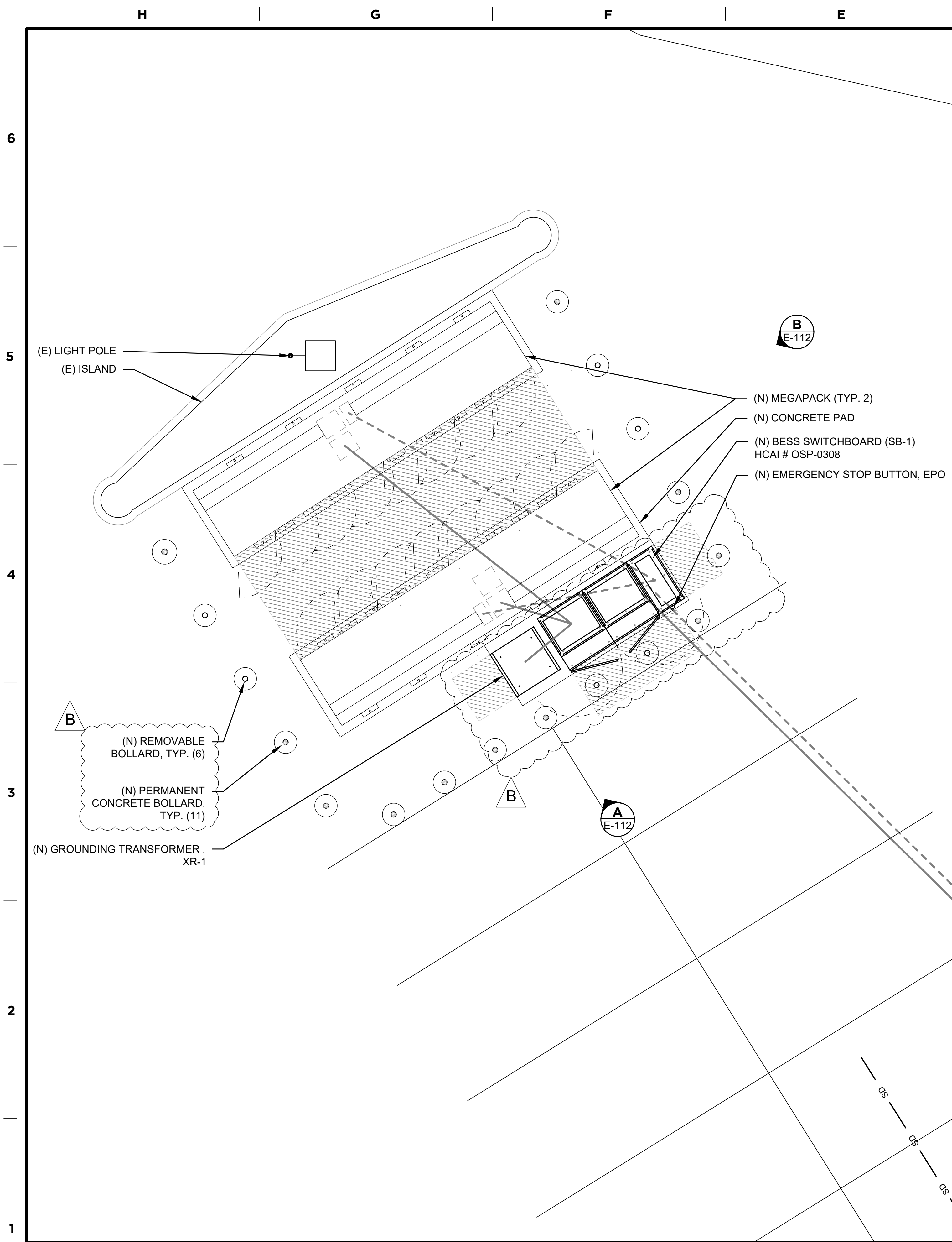
E-101

JB-95620807

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**ELECTRICAL SITE PLAN**  
1" = 20'-0"





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Chris Marocco, Architect of Record, Date 11/22/22

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ELECTRICAL  
STATE OF CALIFORNIA  
Exp. 06/30/24

AGENCY APPROVAL

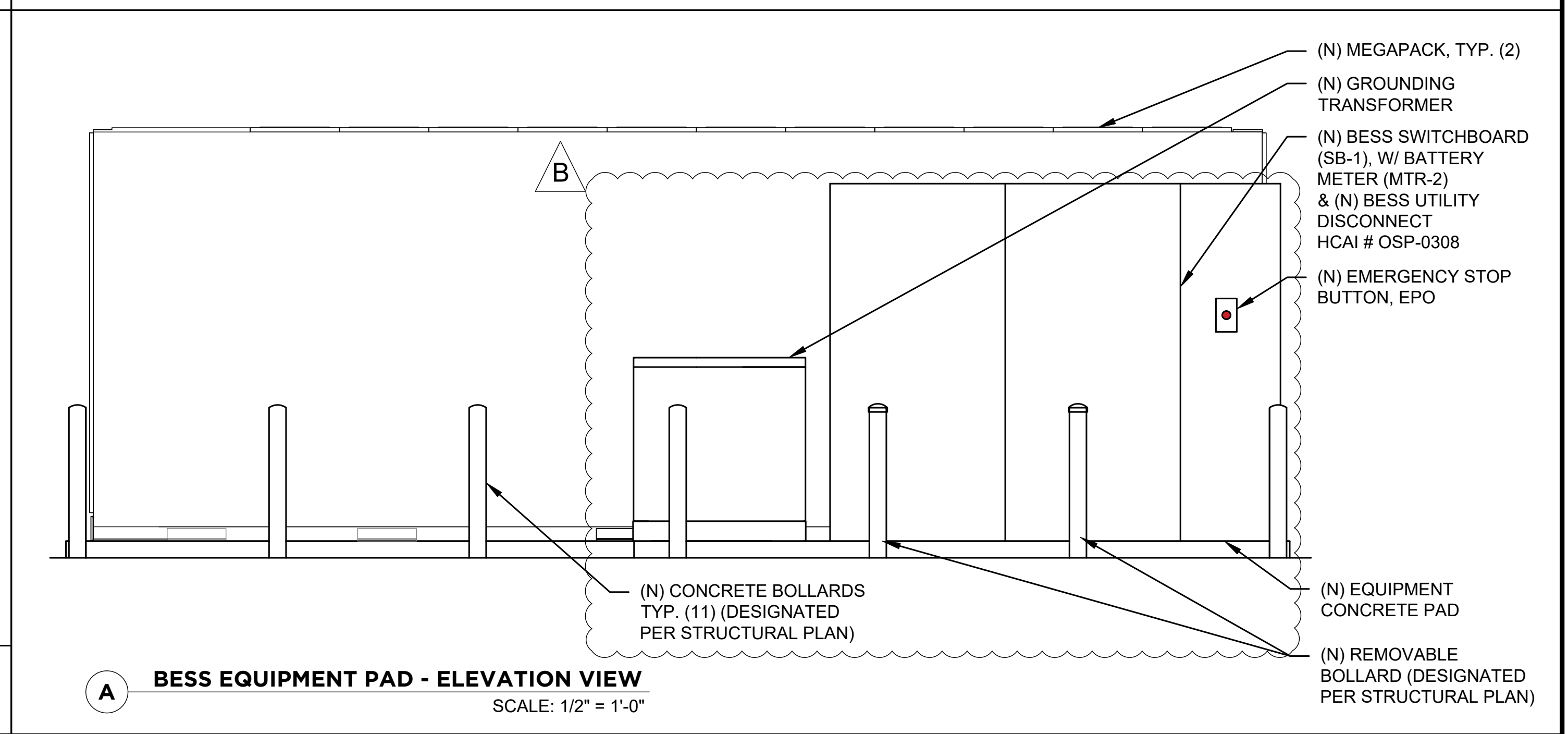
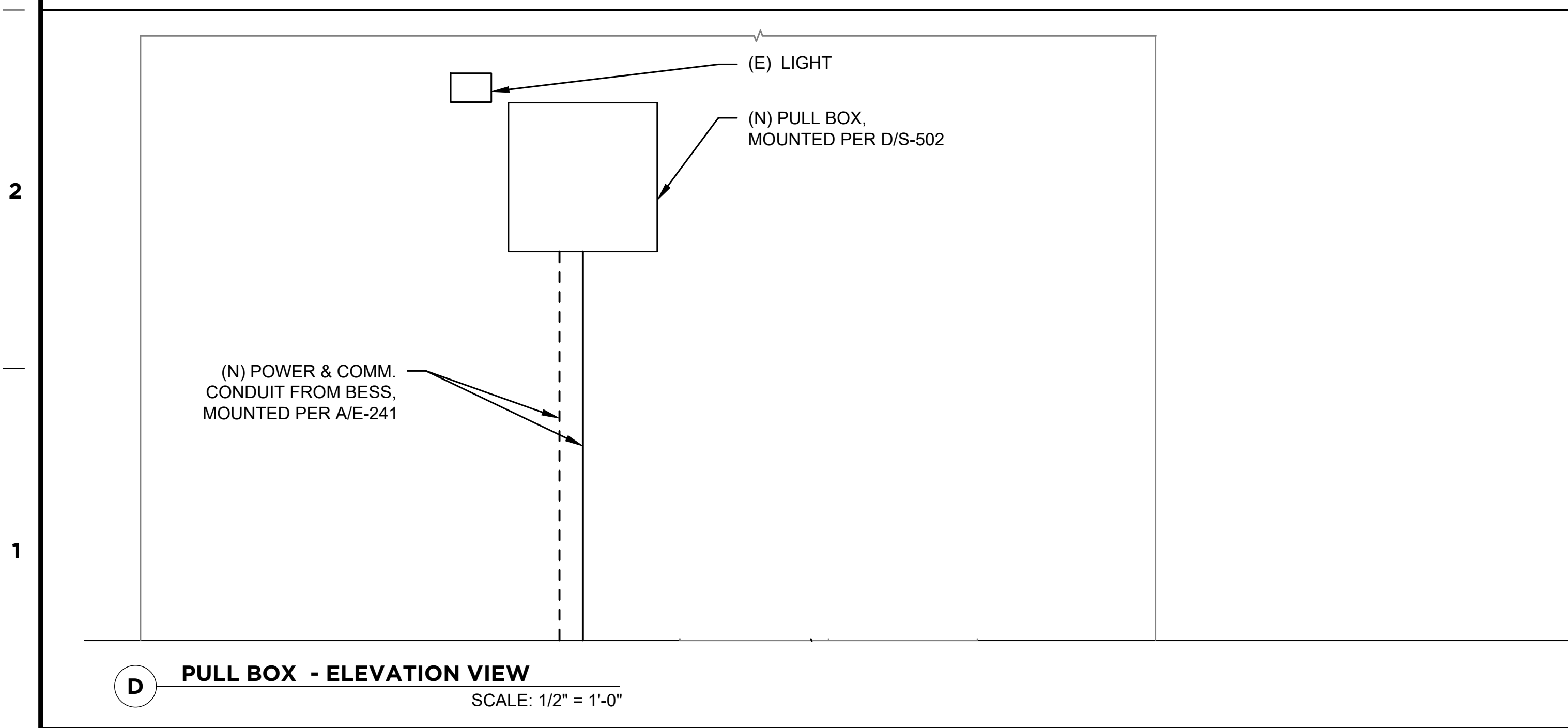
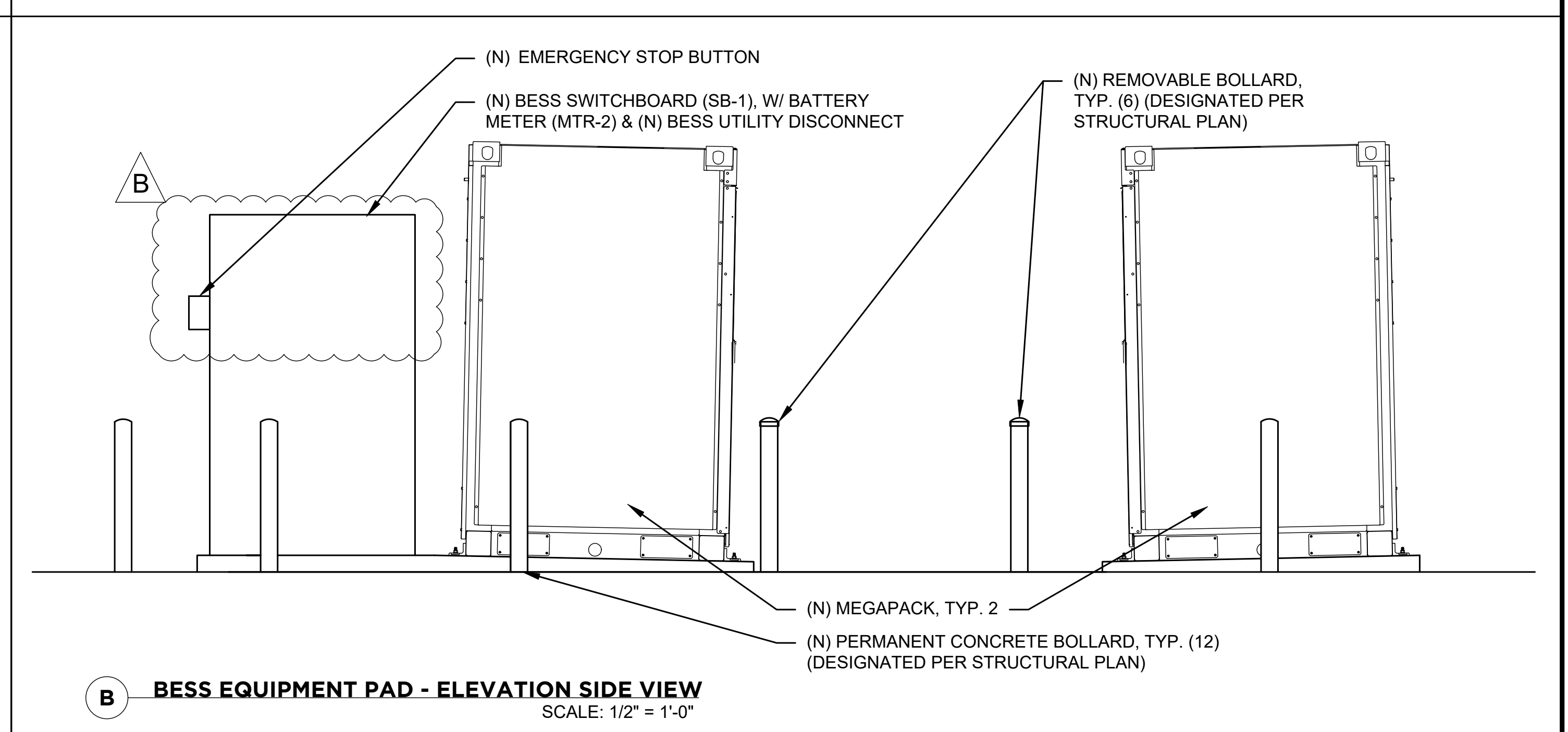
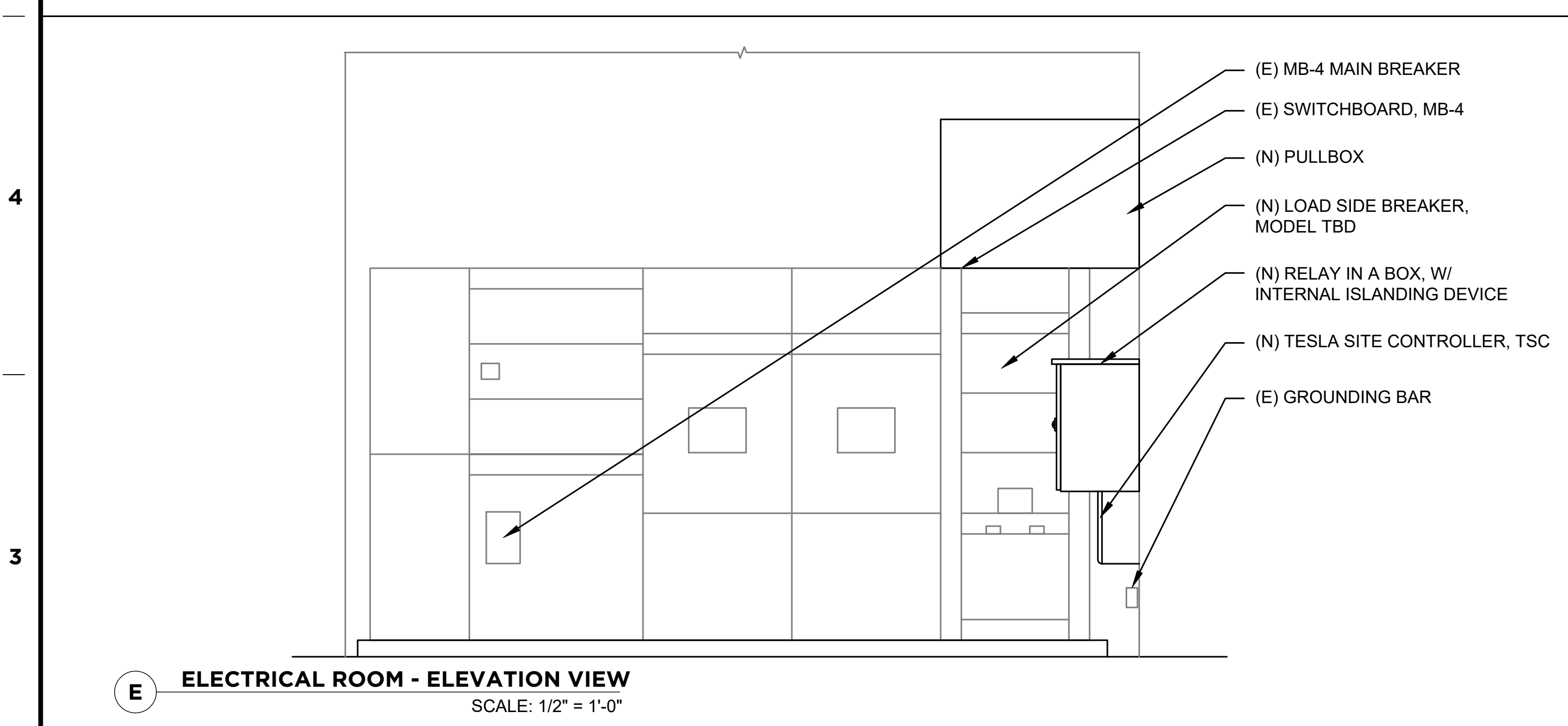
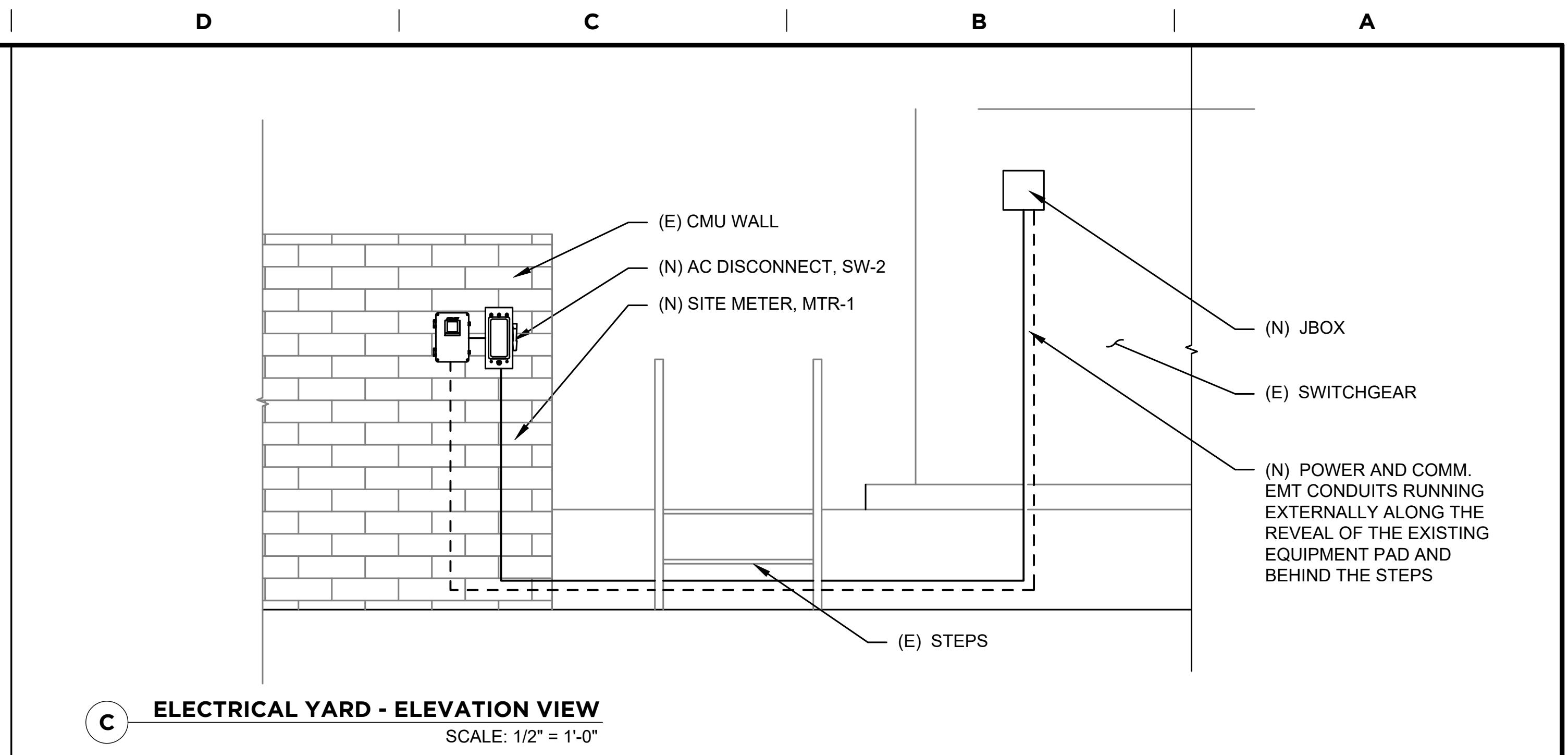
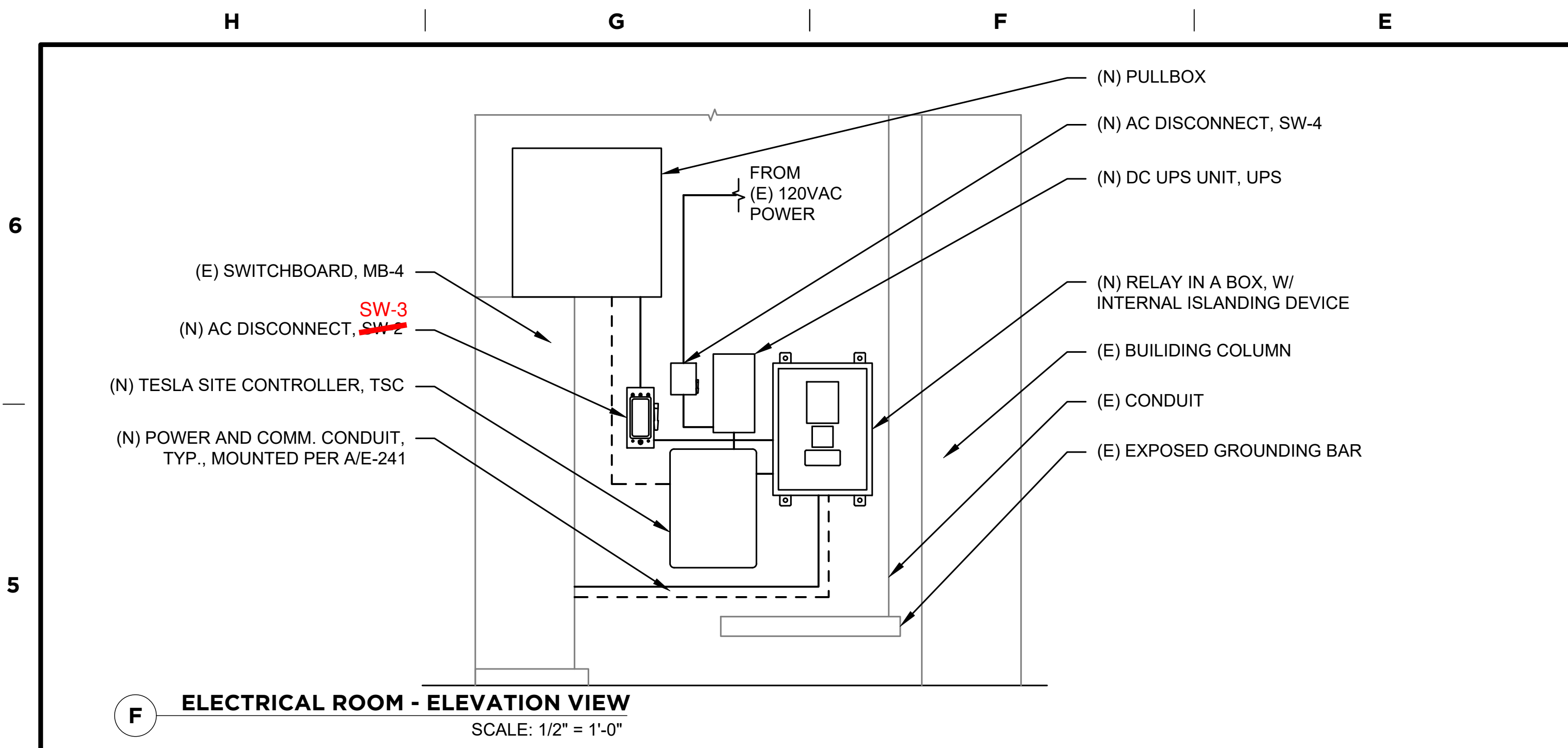
REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24L C08  
**APPROVED**  
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FACILITIES DEVELOPMENT DIVISION  
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Tony Tan

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| NO. | REVISION                                | DATE     |
|-----|---|----------|
| A   | POINT OF INTERCONNECTION AT LOW VOLTAGE | 8/5/22   |
| B   | HCAI COMMENTS                           | 10/26/22 |

**EQUIPMENT PLAN**  
E-111  
JB-95620807  
REV: B IFF



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|-----|---|----------|
| A   | POINT OF INTERCONNECTION AT LOW VOLTAGE | 8/9/22   |
| B   | HCAI COMMENTS                           | 10/26/22 |

**EQUIPMENT PLAN**

E-112

JB-95620807

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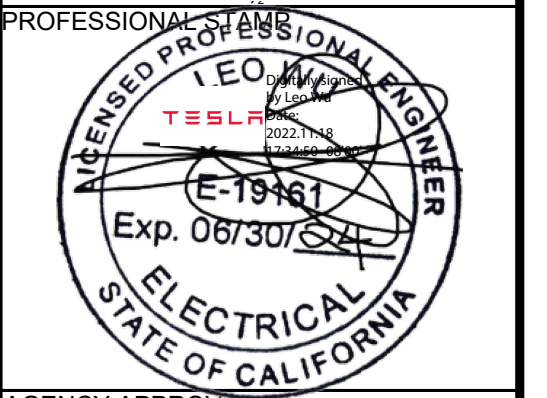
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*Chris Maresca*  
Chris Maresca, Architect of Record, Date 11/22/22



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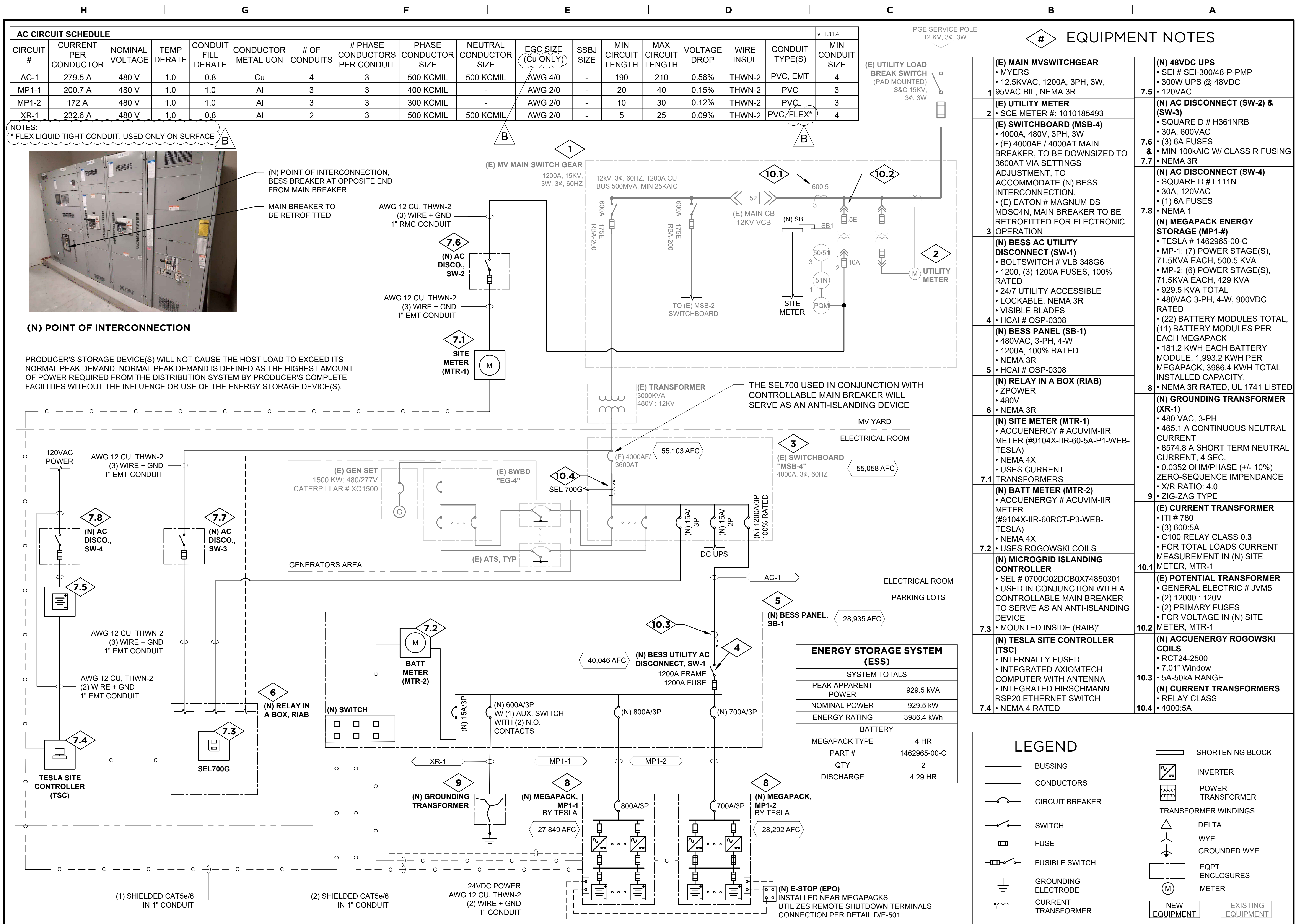
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|     |   |          |
|     |   |          |

**EQUIPMENT SCHEDULE**

E-200

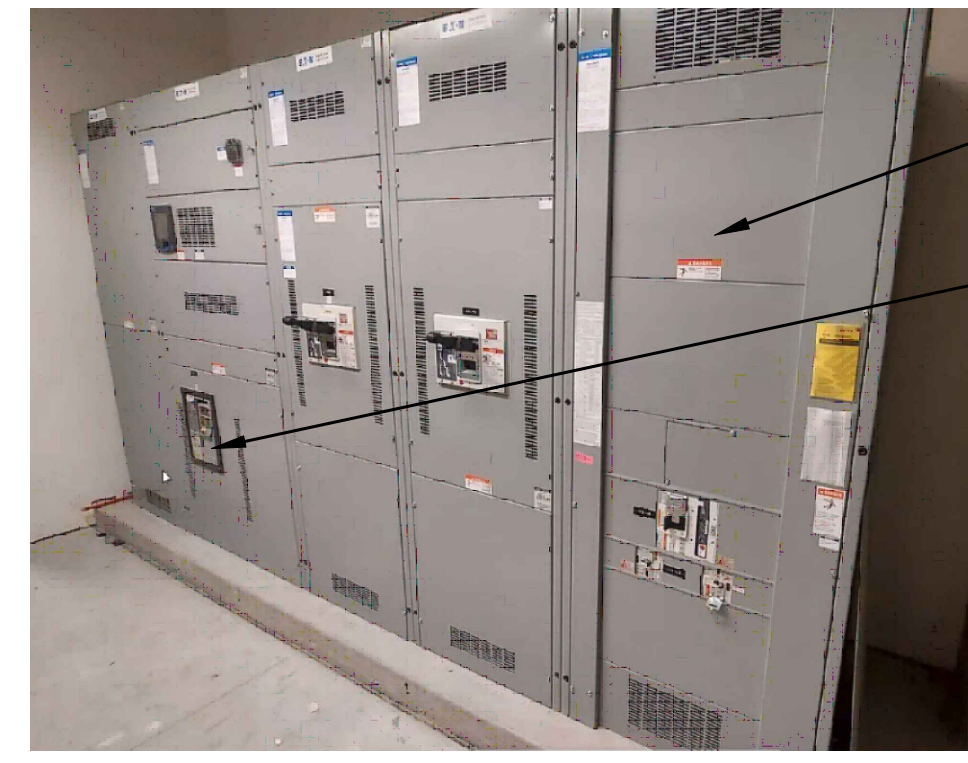
JB-95620807

REV: B | IFP



| AC CIRCUIT SCHEDULE |                       |                 |             |                     |                     |               |                                |                      |                        |                    |           |                    |                    | v.1.31.4     |            |                 |                  |
|---------------------|-----------------------|-----------------|-------------|---------------------|---------------------|---------------|--------------------------------|----------------------|------------------------|--------------------|-----------|--------------------|--------------------|--------------|------------|-----------------|------------------|
| CIRCUIT #           | CURRENT PER CONDUCTOR | NOMINAL VOLTAGE | TEMP DERATE | CONDUIT FILL DERATE | CONDUCTOR METAL UON | # OF CONDUITS | # PHASE CONDUCTORS PER CONDUIT | PHASE CONDUCTOR SIZE | NEUTRAL CONDUCTOR SIZE | EGC SIZE (Cu ONLY) | SSBJ SIZE | MIN CIRCUIT LENGTH | MAX CIRCUIT LENGTH | VOLTAGE DROP | WIRE INSUL | CONDUIT TYPE(S) | MIN CONDUIT SIZE |
| AC-1                | 279.5 A               | 480 V           | 1.0         | 0.8                 | Cu                  | 4             | 3                              | 500 KCML             | 500 KCML               | AWG 4/0            | -         | 190                | 210                | 0.58%        | THWN-2     | PVC, EMT        | 4                |
| MP1-1               | 200.7 A               | 480 V           | 1.0         | 1.0                 | Al                  | 3             | 3                              | 400 KCML             | -                      | AWG 2/0            | -         | 20                 | 40                 | 0.15%        | THWN-2     | PVC             | 3                |
| MP1-2               | 172 A                 | 480 V           | 1.0         | 1.0                 | Al                  | 3             | 3                              | 300 KCML             | -                      | AWG 2/0            | -         | 10                 | 30                 | 0.12%        | THWN-2     | PVC             | 3                |
| XR-1                | 232.6 A               | 480 V           | 1.0         | 0.8                 | Al                  | 2             | 3                              | 500 KCML             | 500 KCML               | AWG 2/0            | -         | 5                  | 25                 | 0.09%        | THWN-2     | PVC/FLEX*       | 4                |

NOTES:  
\* FLEX LIQUID TIGHT CONDUIT, USED ONLY ON SURFACE



(N) POINT OF INTERCONNECTION, BESS BREAKER AT OPPOSITE END FROM MAIN BREAKER

MAIN BREAKER TO BE RETROFITTED

(N) POINT OF INTERCONNECTION

PRODUCER'S STORAGE DEVICE(S) WILL NOT CAUSE THE HOST LOAD TO EXCEED ITS NORMAL PEAK DEMAND. NORMAL PEAK DEMAND IS DEFINED AS THE HIGHEST AMOUNT OF POWER REQUIRED FROM THE DISTRIBUTION SYSTEM BY PRODUCER'S COMPLETE FACILITIES WITHOUT THE INFLUENCE OR USE OF THE ENERGY STORAGE DEVICE(S).

| ENERGY STORAGE SYSTEM (ESS) |              |
|-----------------------------|--------------|
| SYSTEM TOTALS               |              |
| PEAK APPARENT POWER         | 929.5 kVA    |
| NOMINAL POWER               | 929.5 kW     |
| ENERGY RATING               | 3986.4 kWh   |
| BATTERY                     |              |
| MEGAPACK TYPE               | 4 HR         |
| PART #                      | 1462965-00-C |
| QTY                         | 2            |
| DISCHARGE                   | 4.29 HR      |

# EQUIPMENT NOTES

- (E) MAIN MV SWITCHGEAR**
  - MYERS
  - 12.5KVAC, 1200A, 3PH, 3W,
  - 95VAC BIL, NEMA 3R
- (E) UTILITY METER**
  - SCE METER # : 1010185493
- (E) SWITCHBOARD (MSB-4)**
  - 4000A, 480V, 3PH, 3W
  - (E) 4000AF / 4000AT MAIN BREAKER, TO BE DOWNSIZED TO 3600AT VIA SETTINGS ADJUSTMENT, TO ACCOMMODATE (N) BESS INTERCONNECTION.
  - (E) EATON # MAGNUM DS MDSC4N, MAIN BREAKER TO BE RETROFITTED FOR ELECTRONIC OPERATION
- (N) BESS AC UTILITY DISCONNECT (SW-1)**
  - BOLTSWITCH # VLB 348G6
  - 1200, (3) 1200A FUSES, 100% RATED
  - 24/7 UTILITY ACCESSIBLE
  - LOCKABLE, NEMA 3R
  - VISIBLE BLADES
  - HCAI # OSP-0308
- (N) BESS PANEL (SB-1)**
  - 480VAC, 3-PH, 4-W
  - 1200A, 100% RATED
  - NEMA 3R
  - HCAI # OSP-0308
- (N) RELAY IN A BOX (RIAB)**
  - ZPOWER
  - 480V
  - NEMA 3R
- (N) SITE METER (MTR-1)**
  - ACCUENERGY # ACUVIM-IIR METER (#9104X-IIR-60-5A-P1-WEB- TESLA)
  - NEMA 4X
  - USES CURRENT TRANSFORMERS
- (N) BATT METER (MTR-2)**
  - ACCUENERGY # ACUVIM-IIR METER (#9104X-IIR-60RCT-P3-WEB- TESLA)
  - NEMA 4X
  - USES ROGOWSKI COILS
- (N) MICROGRID ISLANDING CONTROLLER**
  - SEL # 0700G02DCB0X74850301
  - USED IN CONJUNCTION WITH A CONTROLLABLE MAIN BREAKER TO SERVE AS AN ANTI-ISLANDING DEVICE
  - MOUNTED INSIDE (RAIB)\*
- (N) TESLA SITE CONTROLLER (TSC)**
  - INTERNALLY FUSED
  - INTEGRATED AXIOMTECH COMPUTER WITH ANTENNA
  - INTEGRATED HIRSCHMANN RSP20 ETHERNET SWITCH
  - NEMA 4 RATED
- (N) 48VDC UPS**
  - SEI # SEI-300/48-P-PMP
  - 300W UPS @ 48VDC
  - 120VAC
- (N) AC DISCONNECT (SW-2) & (SW-3)**
  - SQUARE D # H361NRB
  - 30A, 600VAC
  - (3) 6A FUSES
  - MIN 100KAIC W/ CLASS R FUSING
  - NEMA 3R
- (N) AC DISCONNECT (SW-4)**
  - SQUARE D # L111N
  - 30A, 120VAC
  - (1) 6A FUSES
  - NEMA 1
- (N) MEGAPACK ENERGY STORAGE (MP1-#)**
  - TESLA # 1462965-00-C
  - MP-1: (7) POWER STAGE(S), 71.5KVA EACH, 500.5 KVA
  - MP-2: (6) POWER STAGE(S), 71.5KVA EACH, 429 KVA
  - 929.5 KVA TOTAL
  - 480VAC 3-PH, 4-W, 900VDC RATED
  - (22) BATTERY MODULES TOTAL, (11) BATTERY MODULES PER EACH MEGAPACK
  - 181.2 KWH EACH BATTERY MODULE, 1,993.2 KWH PER MEGAPACK, 3986.4 KWH TOTAL INSTALLED CAPACITY.
  - NEMA 3R RATED, UL 1741 LISTED
- (N) GROUNDING TRANSFORMER (XR-1)**
  - 480 VAC, 3-PH
  - 465.1 A CONTINUOUS NEUTRAL CURRENT
  - 8574.8 A SHORT TERM NEUTRAL CURRENT, 4 SEC.
  - 0.0352 OHM/PHASE (+/- 10%) ZERO-SEQUENCE IMPEDANCE
  - X/R RATIO: 4.0
  - ZIG-ZAG TYPE
- (E) CURRENT TRANSFORMER**
  - ITI # 780
  - (3) 600:5A
  - C100 RELAY CLASS 0.3
  - FOR TOTAL LOADS CURRENT MEASUREMENT IN (N) SITE METER, MTR-1
- (E) POTENTIAL TRANSFORMER**
  - GENERAL ELECTRIC # JVM5
  - (2) 12000 : 120V
  - (2) PRIMARY FUSES
  - FOR VOLTAGE IN (N) SITE METER, MTR-1
- (N) ACCUENERGY ROGOWSKI COILS**
  - RCT24-2500
  - 7.01" Window
  - 5A-50KA RANGE
- (N) CURRENT TRANSFORMERS**
  - RELAY CLASS
  - 4000:5A

LEGEND

- BUSING
- CONDUCTORS
- CIRCUIT BREAKER
- SWITCH
- FUSE
- FUSIBLE SWITCH
- GROUNDING ELECTRODE
- CURRENT TRANSFORMER
- SHORTENING BLOCK
- INVERTER
- POWER TRANSFORMER
- TRANSFORMER WINDINGS
- DELTA
- WYE
- GROUNDED WYE
- EQPT. ENCLOSURES
- METER
- NEW EQUIPMENT
- EXISTING EQUIPMENT



3500 DEER CREEK RD.  
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(650) 681-5000



AGENCY APPROVAL

HCAI # S220849-09-00

TESLA - MARSHALL MED CENTER  
ENERGY STORAGE SYSTEM

1100 MARSHALL WAY  
PLACERVILLE, CA 95667

| NO. | REVISION | DATE     | POINT OF INTERCONNECTION AT LOW VOLTAGE | HCAI COMMENTS |
|-----|----------|----------|---|---------------|
| A   |          | 8/9/22   |   |               |
| B   |          | 10/26/22 |   |               |

SINGLE LINE DIAGRAM

E-201

JB-95620807

REV: B IFF

**LEGEND**

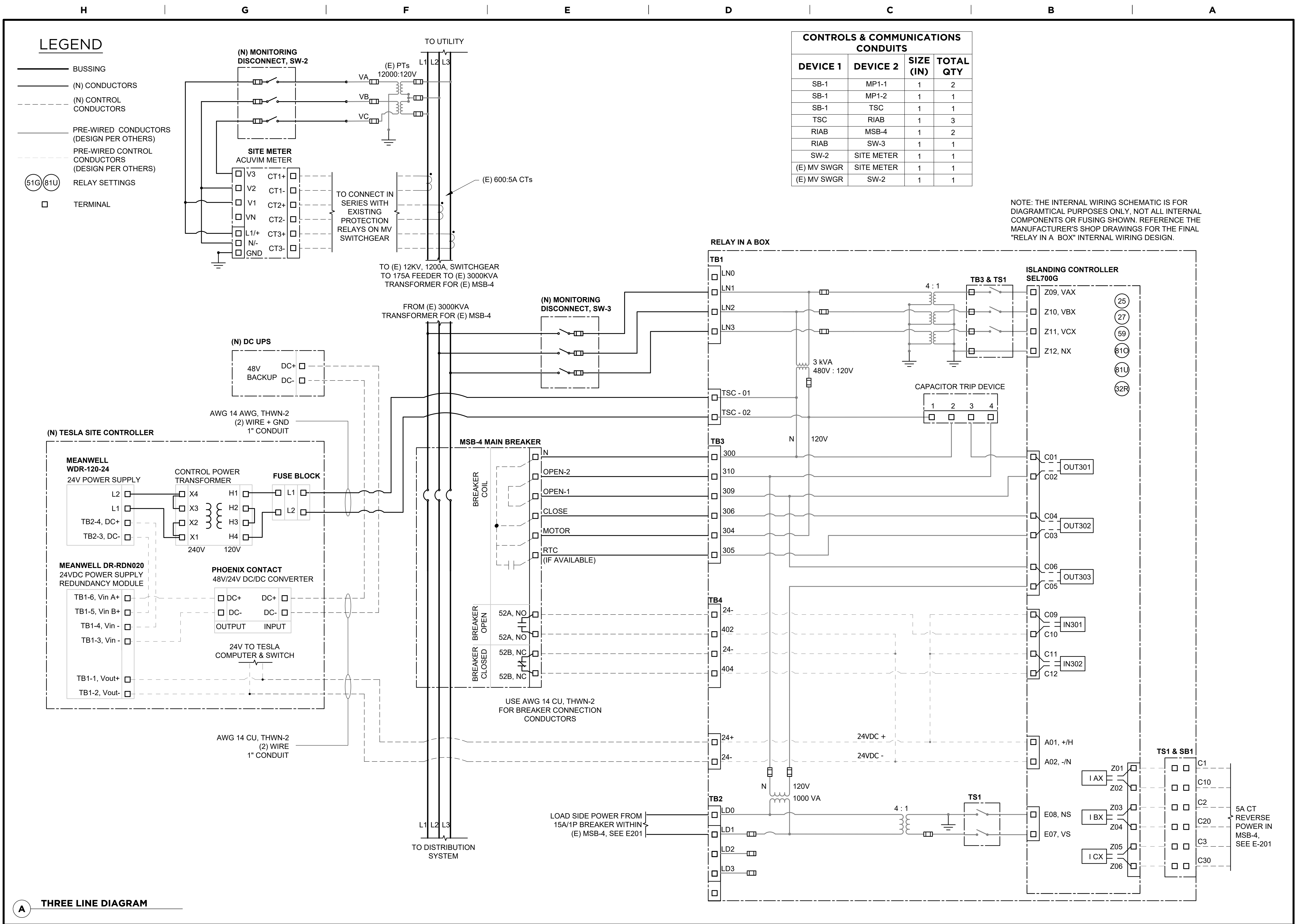
- BUSSING
- (N) CONDUCTORS
- - - (N) CONTROL CONDUCTORS
- PRE-WIRED CONDUCTORS (DESIGN PER OTHERS)
- - - PRE-WIRED CONTROL CONDUCTORS (DESIGN PER OTHERS)
- ⊖ (51G) (81U) RELAY SETTINGS
- TERMINAL

**CONTROLS & COMMUNICATIONS CONDUITS**

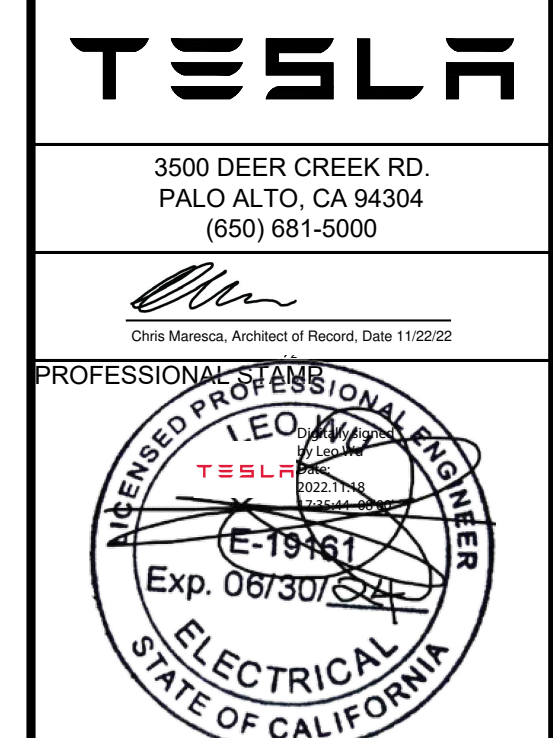
| DEVICE 1    | DEVICE 2   | SIZE (IN) | TOTAL QTY |
|-------------|------------|-----------|-----------|
| SB-1        | MP1-1      | 1         | 2         |
| SB-1        | MP1-2      | 1         | 1         |
| SB-1        | TSC        | 1         | 1         |
| TSC         | RIAB       | 1         | 3         |
| RIAB        | MSB-4      | 1         | 2         |
| RIAB        | SW-3       | 1         | 1         |
| SW-2        | SITE METER | 1         | 1         |
| (E) MV SWGR | SITE METER | 1         | 1         |
| (E) MV SWGR | SW-2       | 1         | 1         |

NOTE: THE INTERNAL WIRING SCHEMATIC IS FOR DIAGRAMMATICAL PURPOSES ONLY. NOT ALL INTERNAL COMPONENTS OR FUSING SHOWN. REFERENCE THE MANUFACTURER'S SHOP DRAWINGS FOR THE FINAL "RELAY IN A BOX" INTERNAL WIRING DESIGN.

6  
5  
4  
3  
2  
1



**A THREE LINE DIAGRAM**



AGENCY APPROVAL

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| NO. | REVISION | POINT OF INTERCONNECTION AT LOW VOLTAGE | DATE     |
|-----|----------|---|----------|
| A   |          |   | 8/5/22   |
| B   |          | HCAI COMMENTS                           | 10/26/22 |

**COMM DIAGRAM**

E-211

JB-95620807

REV: B    IFF

6

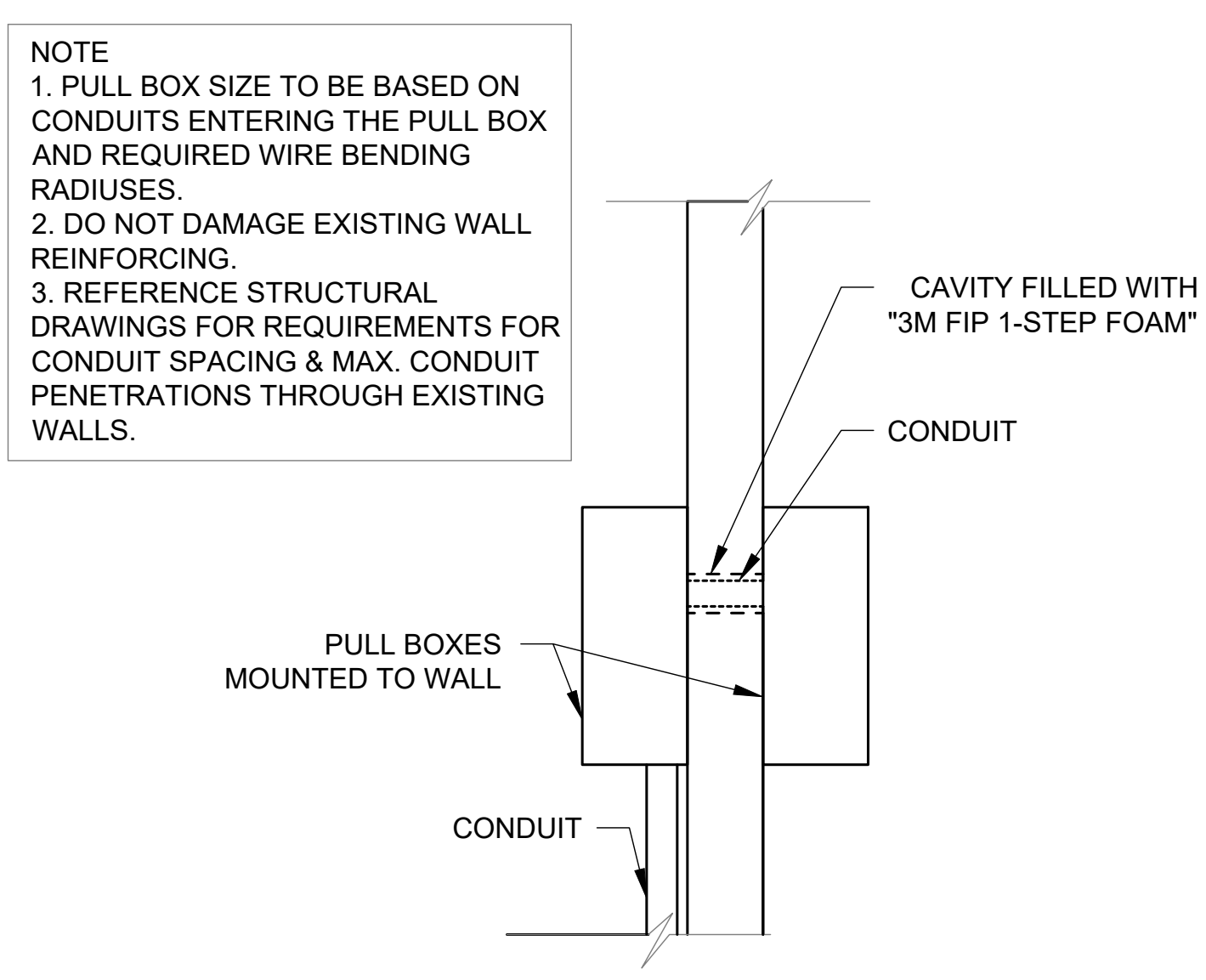
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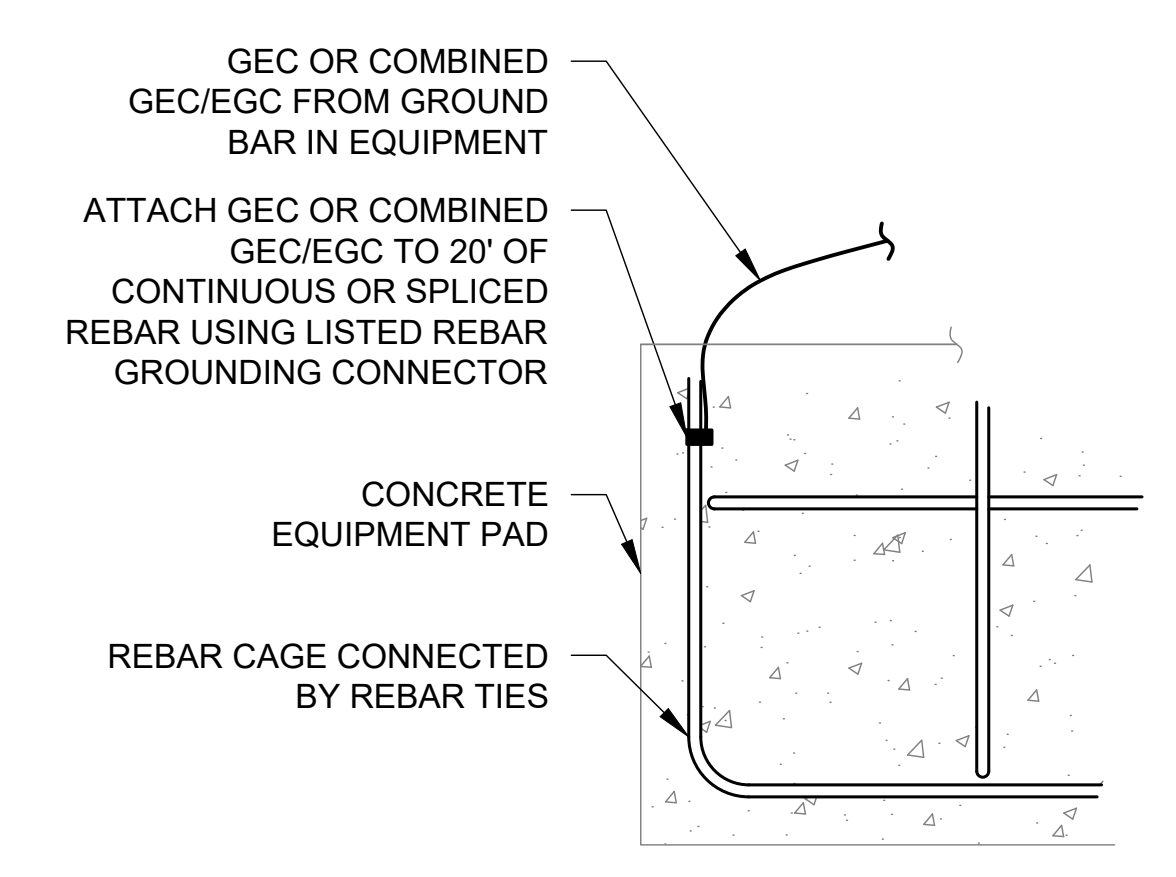
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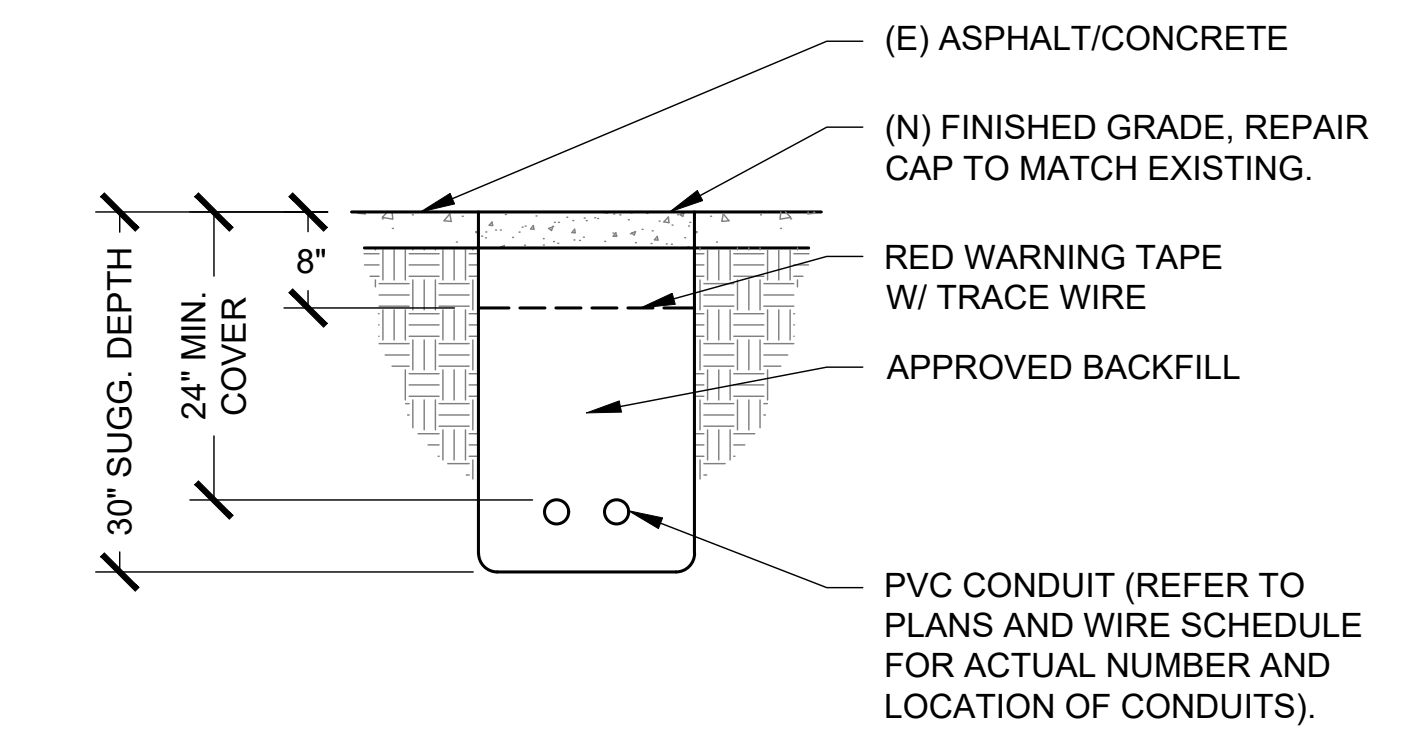
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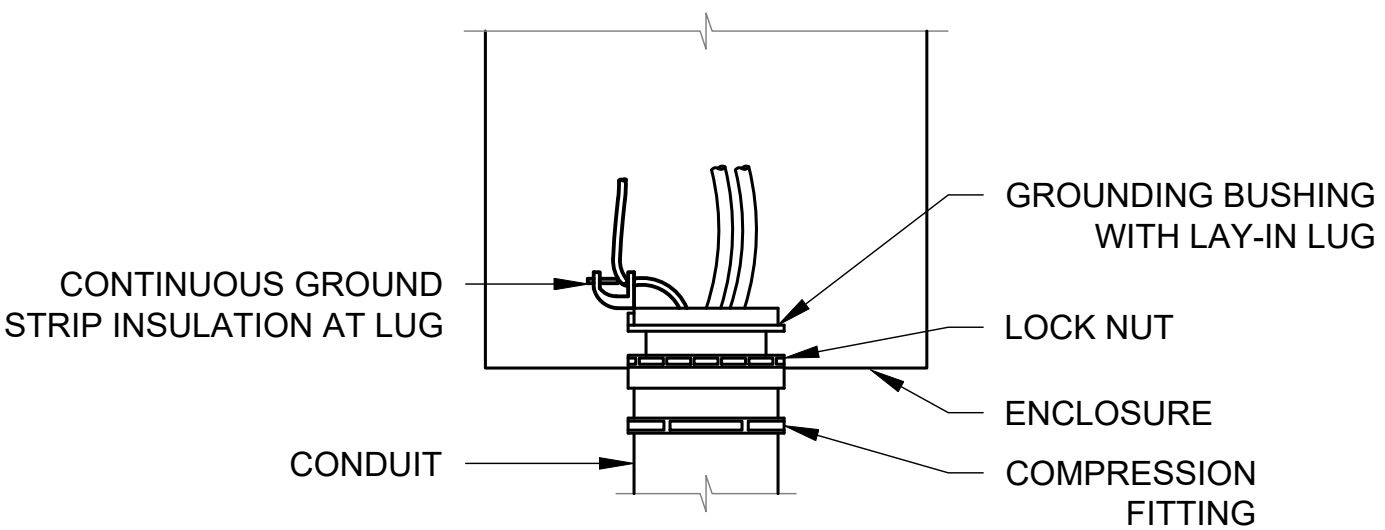
**F CONDUIT THROUGH CONCRETE WALL W/PULLBOX**  
ES11-112 CONDUIT THROUGH WALL WITH PULLBOX DETAIL RA  
 NTS



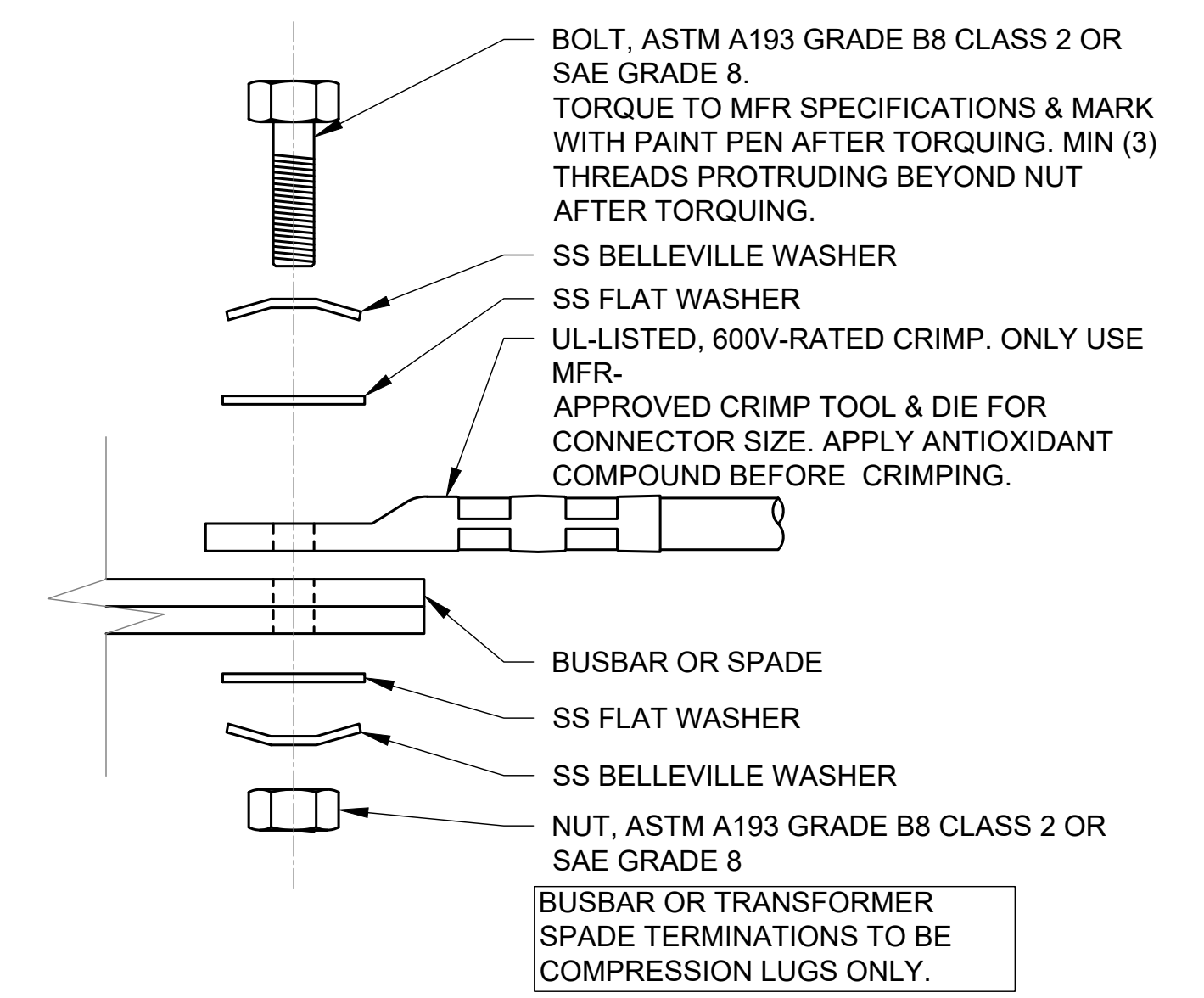
**C CONCRETE-ENCASED ELECTRODE**  
ES11-109 REBAR CAGE INSPECTION BOX AND GROUND ROD DETAIL RA  
 NTS



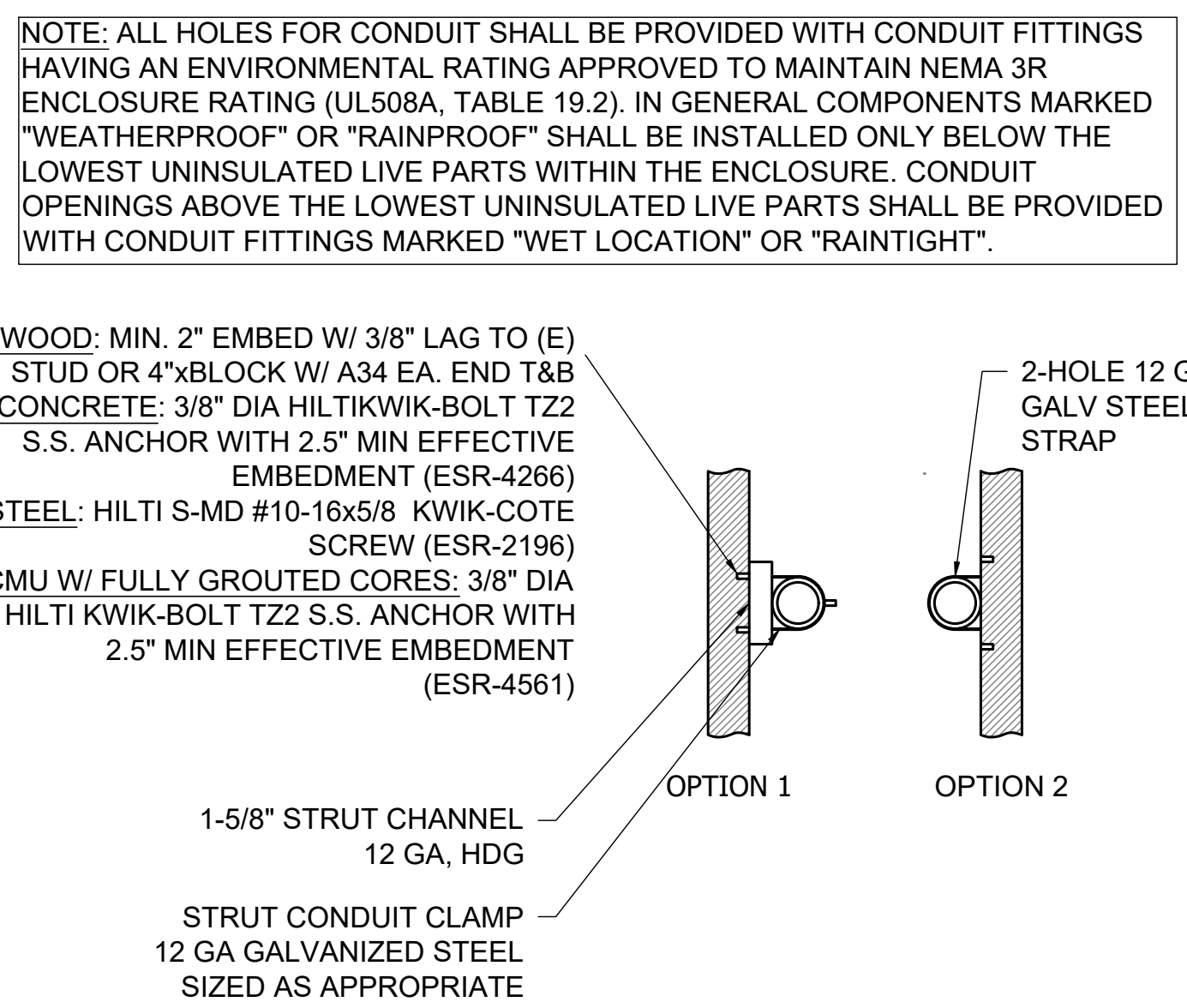
**E TRENCH THROUGH PAVEMENT TRAFFIC**  
ES11-123 TRENCH - PAVEMENT TRAFFIC DETAIL RA  
 NTS



**B CONDUIT GROUNDING AT ENCLOSURE**  
ES11-100 CONDUIT GROUNDING AT ENCLOSURE DETAIL RA  
 NTS



**D COMPRESSION LUG TERMINATION DETAIL**  
ES11-111 COMPRESSION LUG TERMINATION DETAIL RA  
 NTS



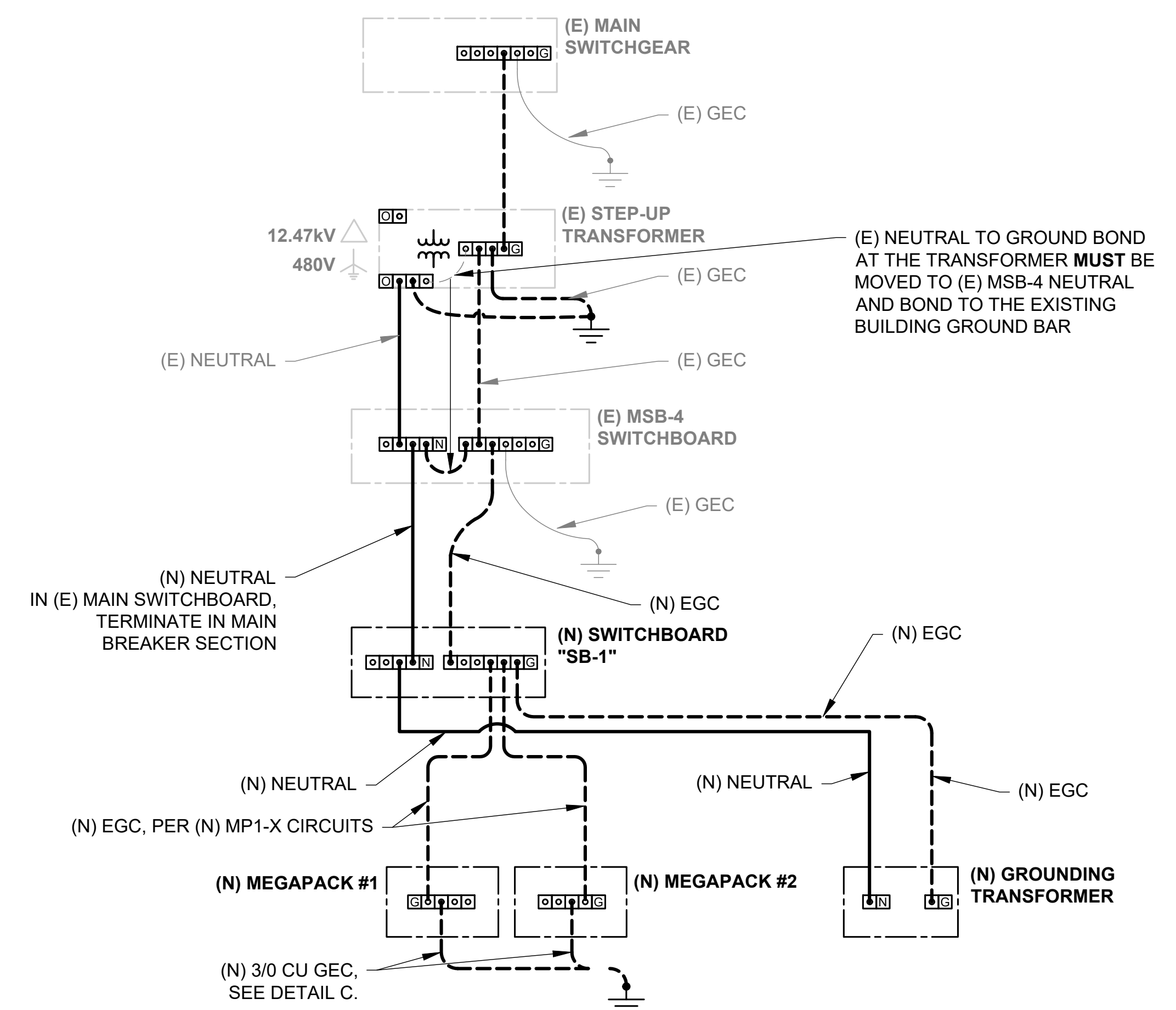
**A CONDUIT SUPPORT - WALL**  
ES11-101 CONDUIT SUPPORT - WALL DETAIL RA  
 NTS

**NOTES**

- REFER TO ONE-LINE DIAGRAM FOR SPECIFIC CIRCUIT IDENTIFIERS BETWEEN EQUIPMENT.
- REFER TO AC & DC CIRCUIT SCHEDULES FOR NEUTRAL/GROUND SIZING PER CIRCUIT.

**LEGEND**

- NEUTRAL BUSBAR
- GROUND BUSBAR
- PRIMARY OR SECONDARY COMMON TERMINAL, AS APPLICABLE
- TERMINAL ON NEUTRAL OR GROUND BUSBAR
- IRREVERSIBLE SPLICE OR CRIMP PER NEC 250.64(C)
- NEC 250.52(A)-COMPLIANT GROUNDING ELECTRODE



**G GROUNDING DIAGRAM**

**TESLA**  
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 PALO ALTO, CA 94304  
 (650) 681-5000  
 Chris Marucci, Architect of Record, Date 11/20/22  
 PROFESSIONAL ENGINEER  
 LICENSED PROFESSIONAL ENGINEER  
 E-19461  
 Exp. 06/30/24  
 ELECTRICAL  
 STATE OF CALIFORNIA

AGENCY APPROVAL  
 HCAI # S220849-09-00

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 ENERGY STORAGE SYSTEM  
 1100 MARSHALL WAY  
 PLACERVILLE, CA 95667

| NO. | REVISION                                | DATE     |
|-----|---|----------|
| A   | POINT OF INTERCONNECTION AT LOW VOLTAGE | 8/9/22   |
| B   | HCAI COMMENTS                           | 10/26/22 |

**GROUNDING DIAGRAM**  
 E-241  
 JB-95620807  
 REV: B | IFF



6

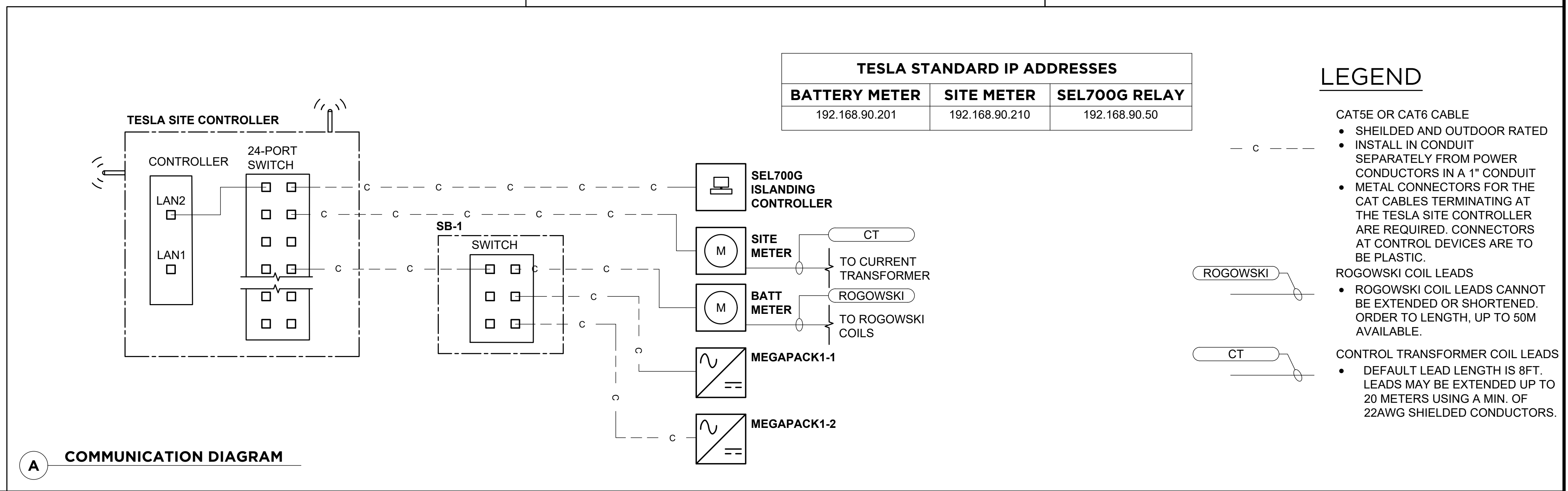
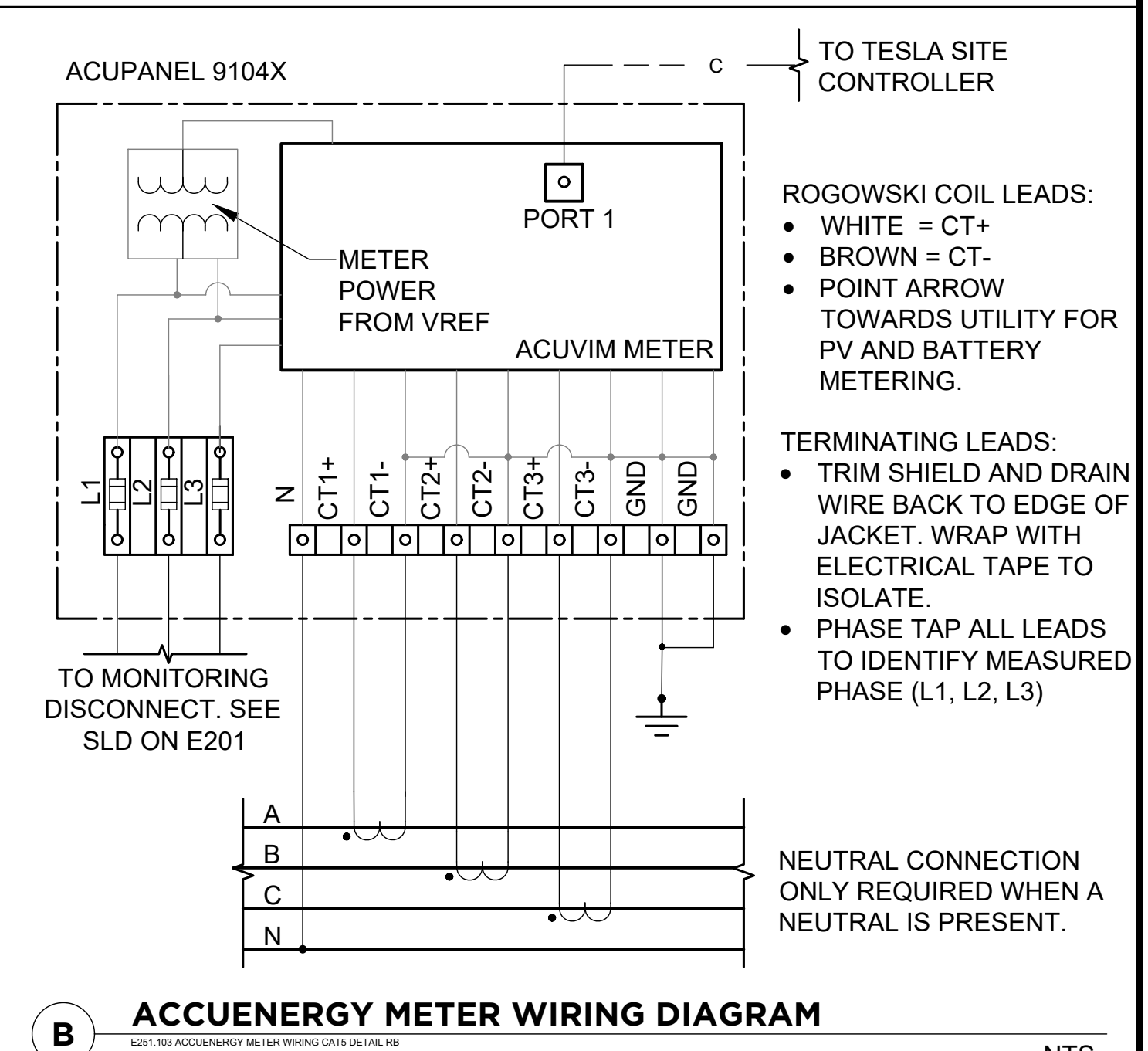
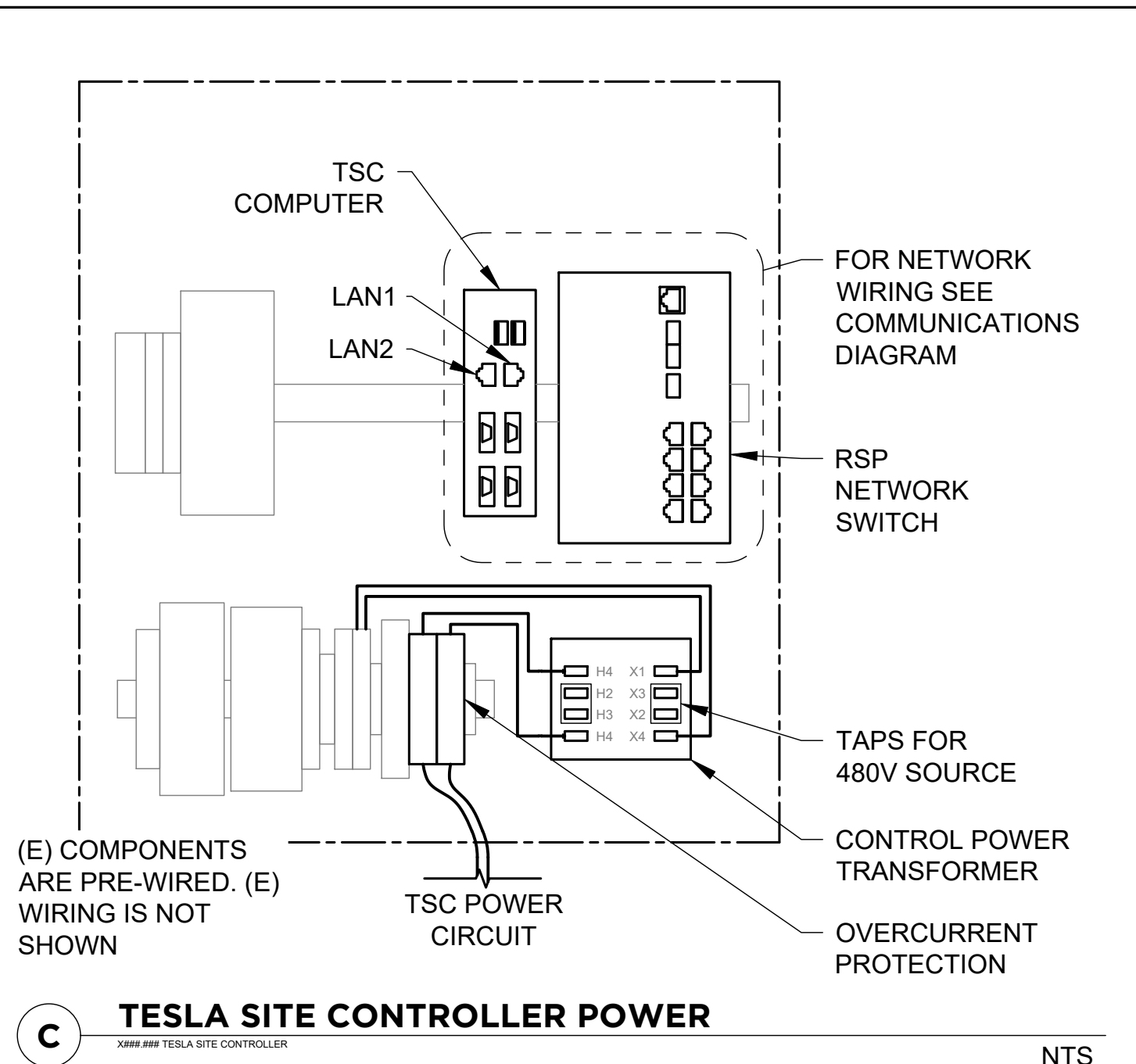
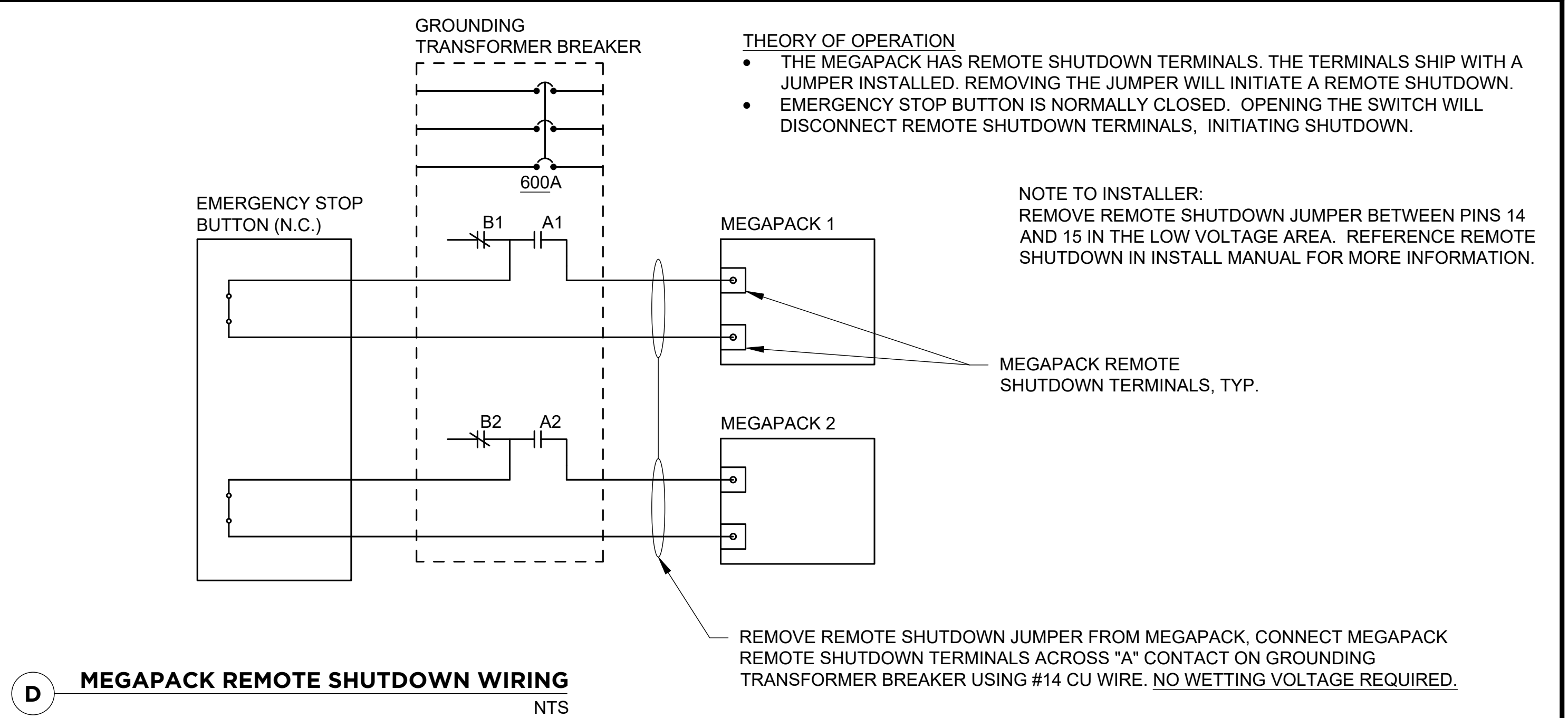
5

4

3

2

1



**TESLA**

3500 DEER CREEK RD.  
PALO ALTO, CA 94304  
(650) 681-5000

Chris Maresca, Architect of Record, Date 11/20/22

PROFESSIONAL SEAL  
ELECTRICAL ENGINEER  
STATE OF CALIFORNIA  
Exp. 08/30/24

AGENCY APPROVAL

HCAI # S220849-09-00

TESLA - MARSHALL MED CENTER  
ENERGY STORAGE SYSTEM

1100 MARSHALL WAY  
PLACERVILLE, CA 95667

| NO. | REVISION                                | DATE     |
|-----|---|----------|
| A   | POINT OF INTERCONNECTION AT LOW VOLTAGE | 8/5/22   |
| B   | HCAI COMMENTS                           | 10/26/22 |

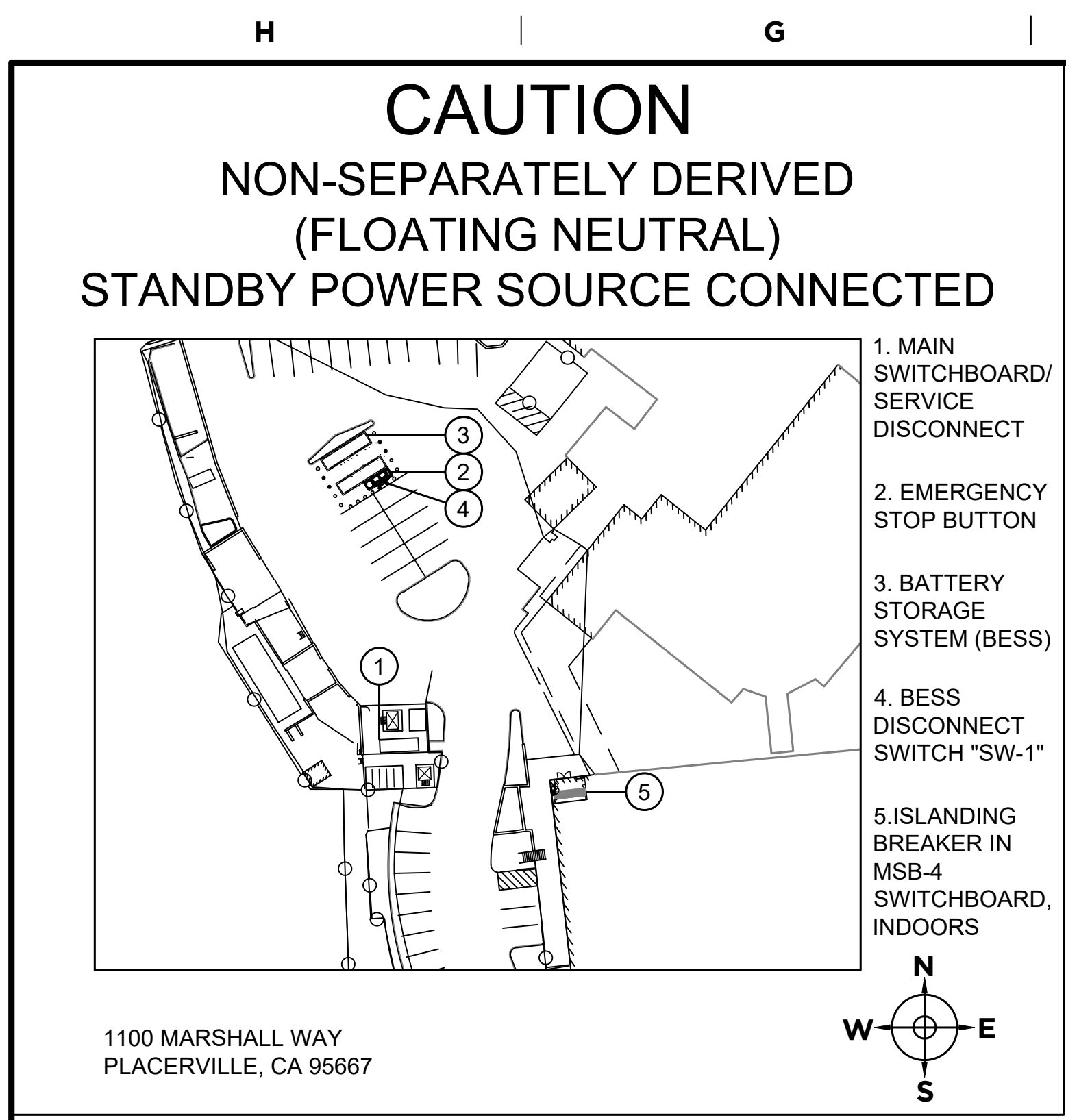
**ELECTRICAL DETAILS**

E-501

JB-95620807

REV: B | IFF



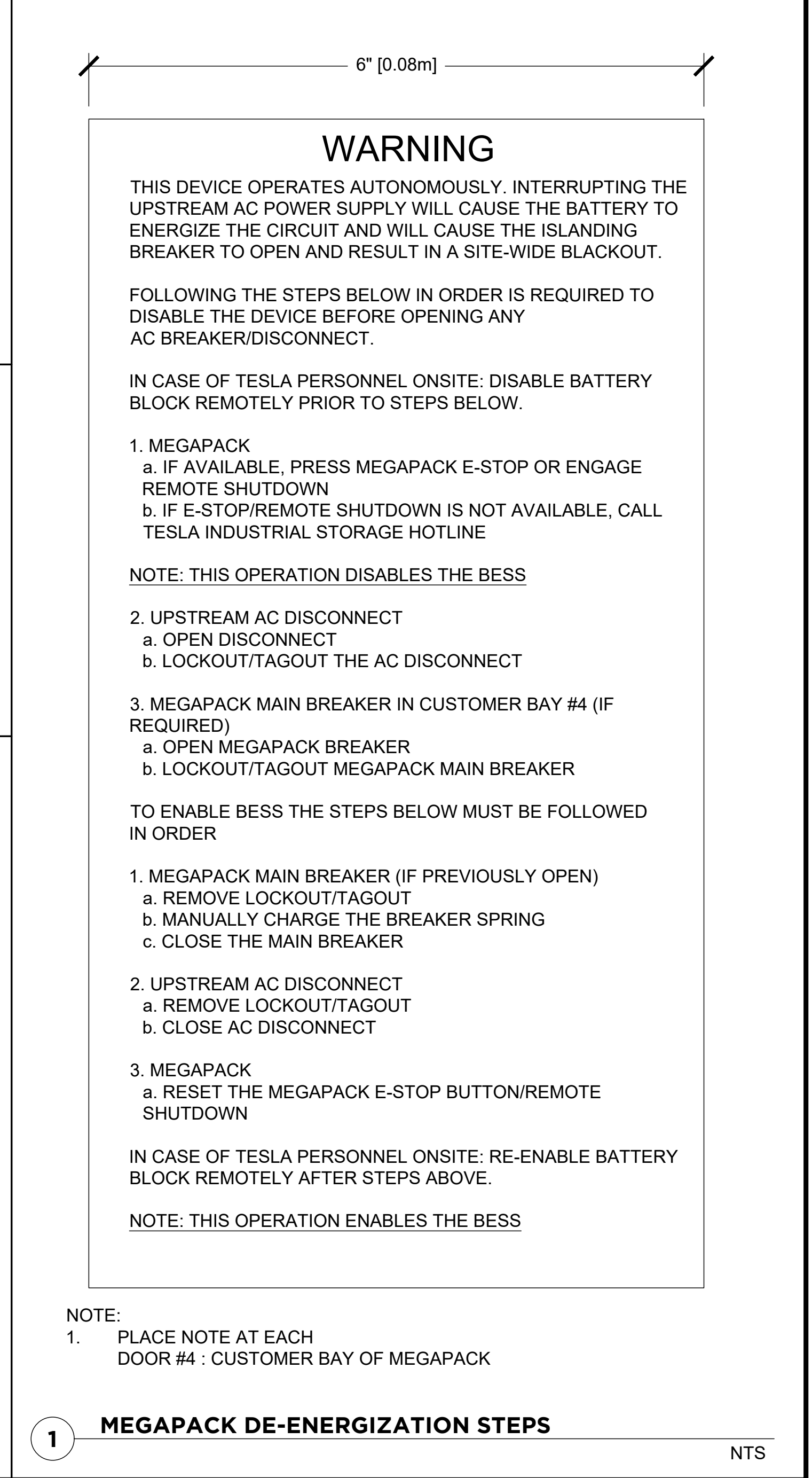
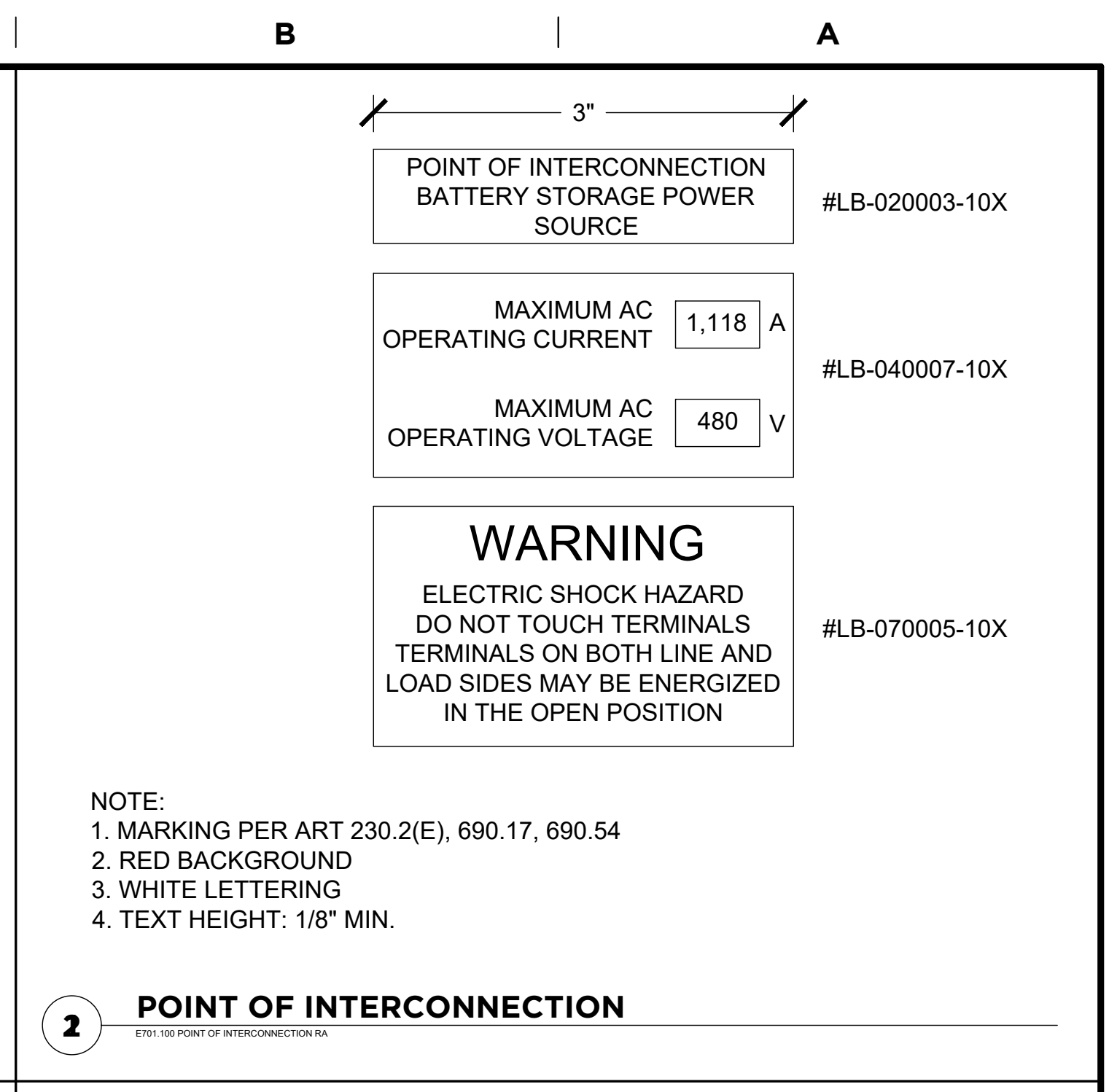
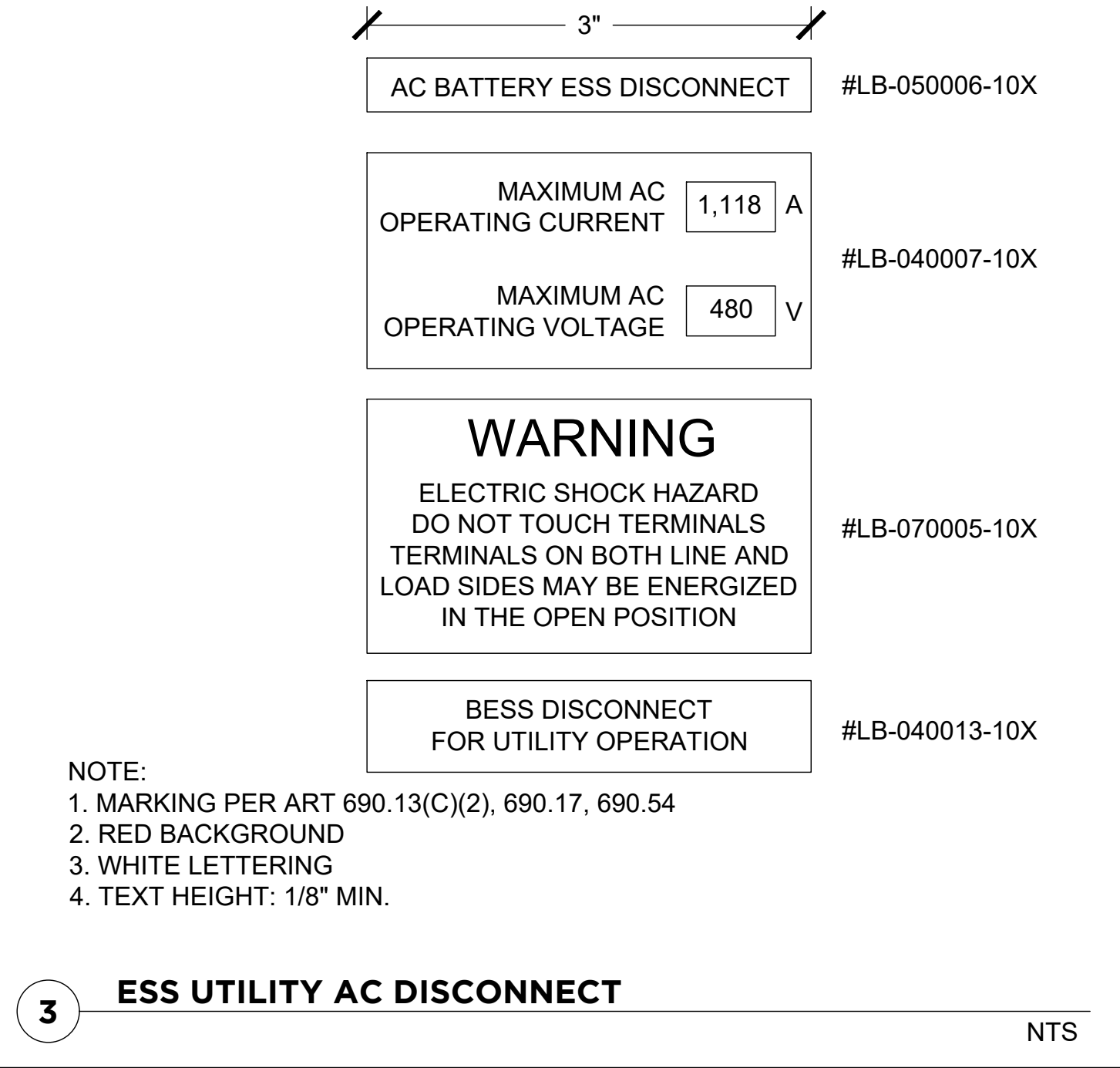
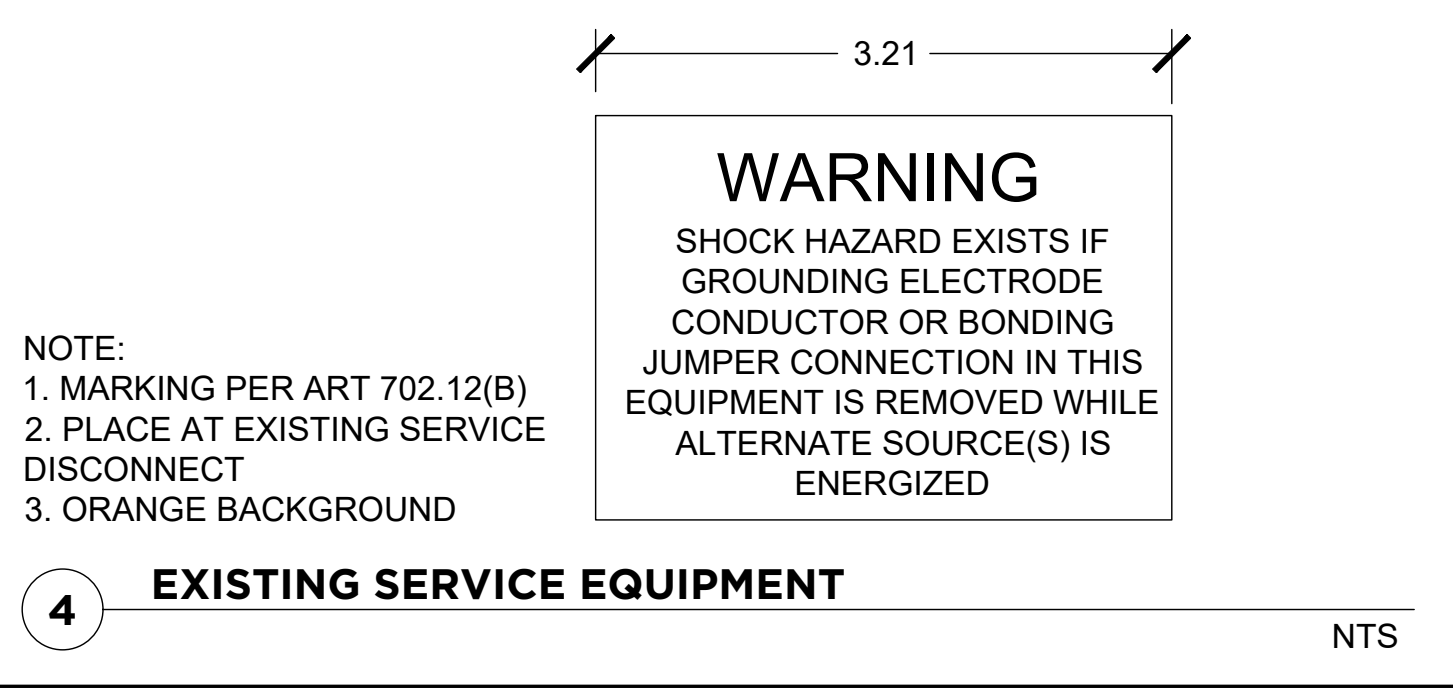
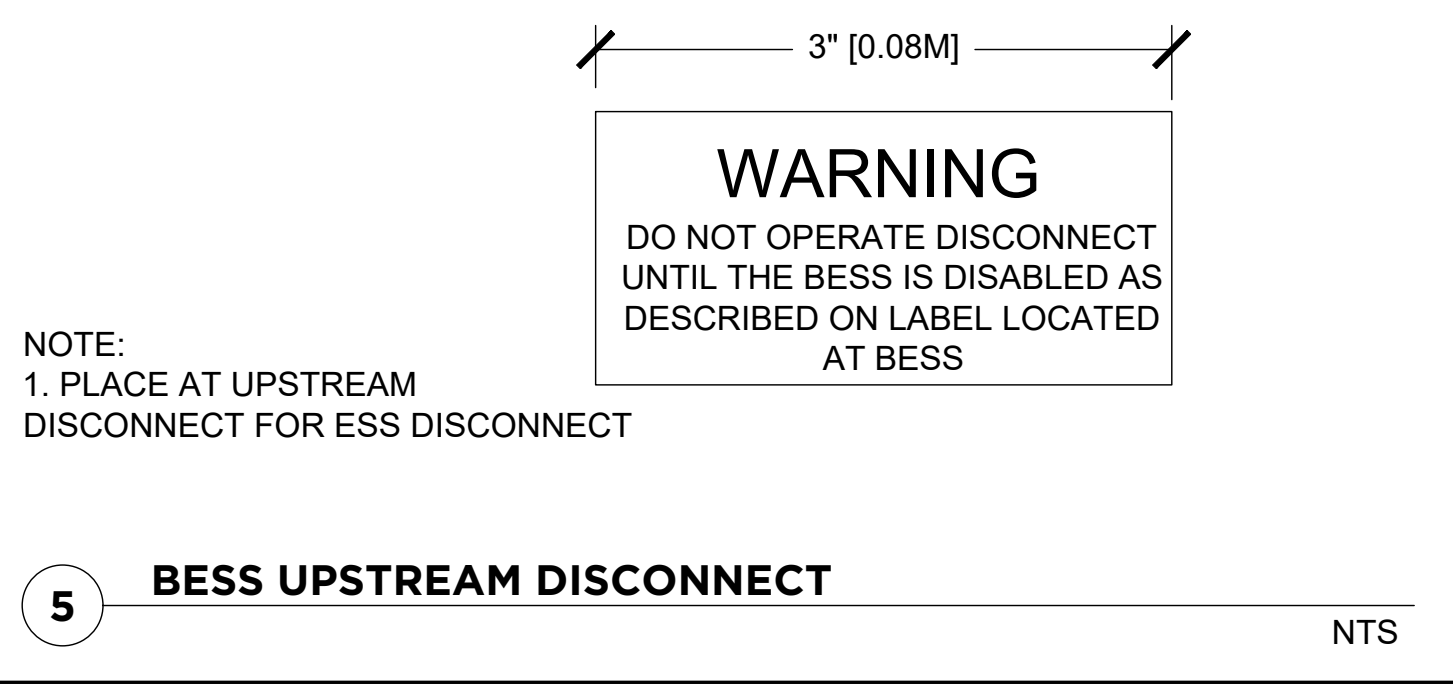
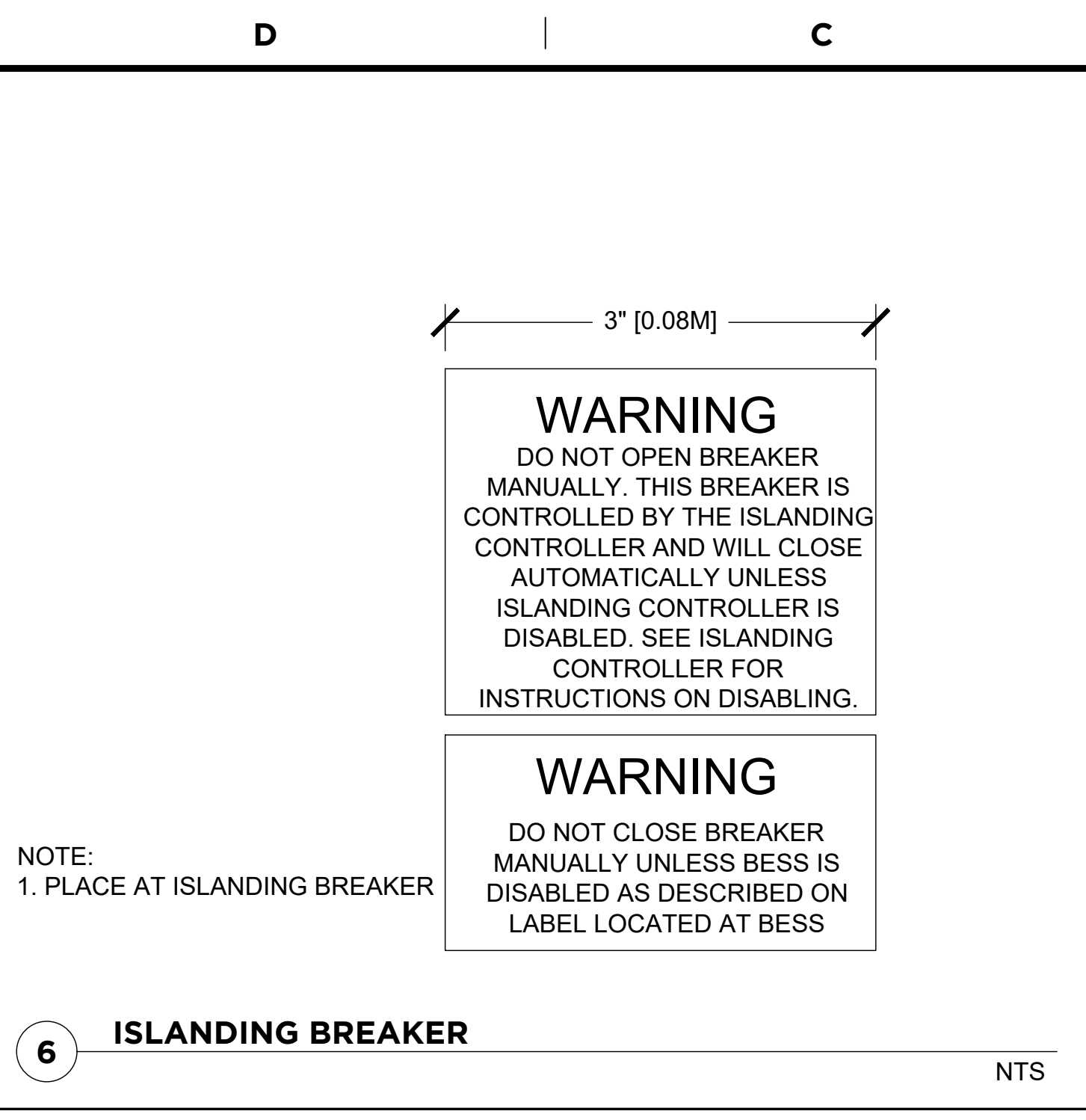
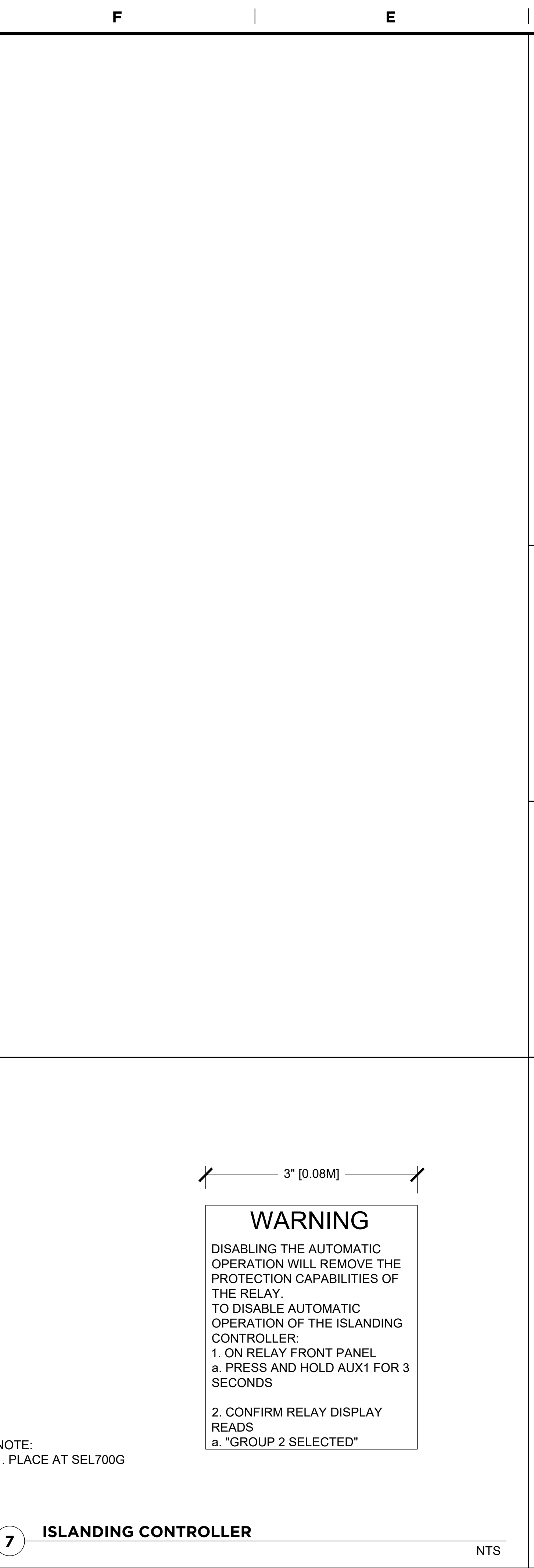
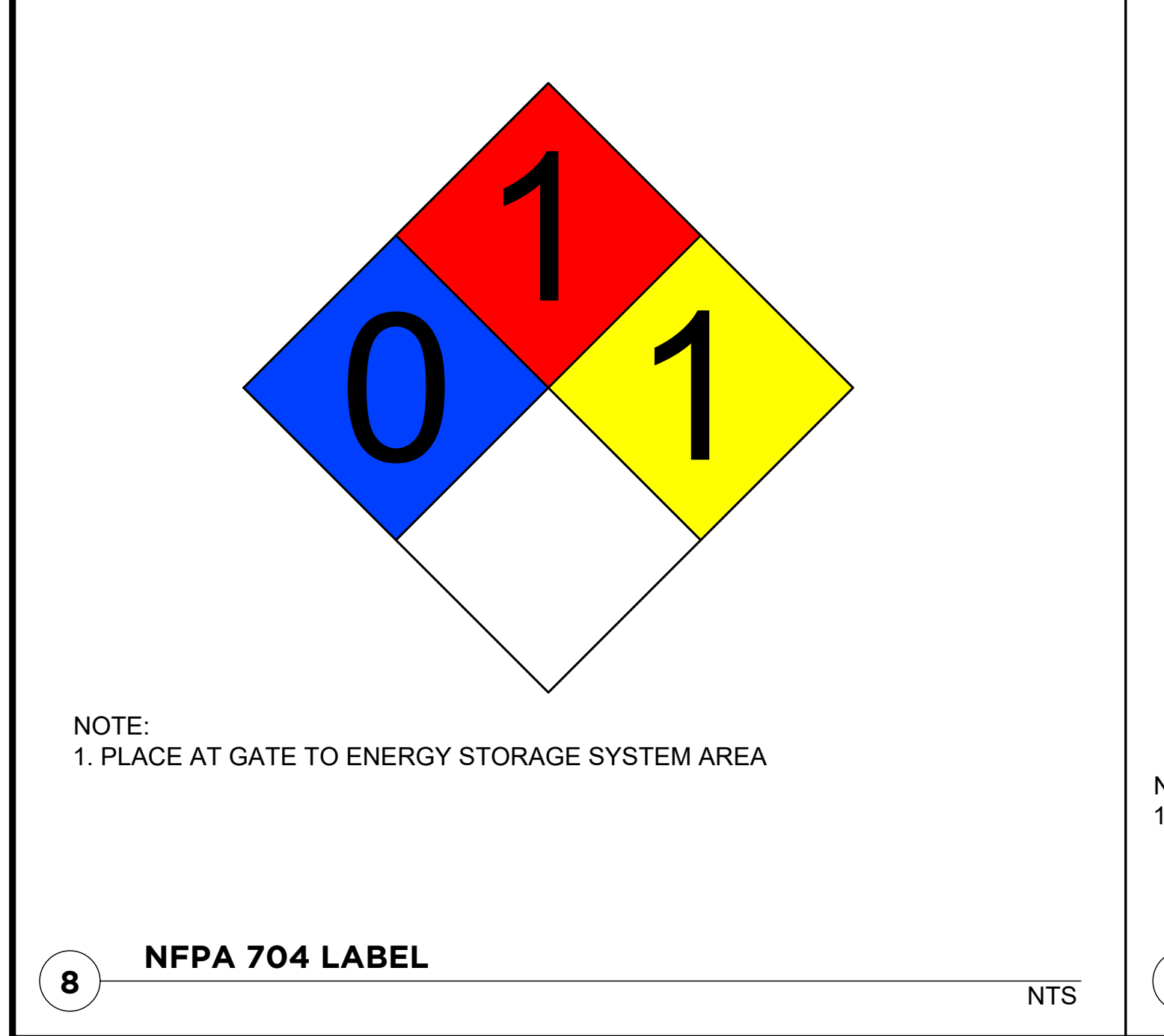


**9 SITE PLACARD** NOTE: PLACE AT (E) SERVICE DISCONNECT

NTS

**WARNING**  
DO NOT OPEN BREAKER MANUALLY. THIS BREAKER IS CONTROLLED BY THE ISLANDING CONTROLLER AND WILL CLOSE AUTOMATICALLY UNLESS ISLANDING CONTROLLER IS DISABLED. SEE ISLANDING CONTROLLER FOR INSTRUCTIONS ON DISABLING.

**WARNING**  
DO NOT CLOSE BREAKER MANUALLY UNLESS BESS IS DISABLED AS DESCRIBED ON LABEL LOCATED AT BESS



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Chris Marasca, Architect of Record, Date 11/22/22

PROFESSIONAL ENGINEER

E-19461  
Exp. 06/30/24

ELECTRICAL  
STATE OF CALIFORNIA

AGENCY APPROVAL

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24L-C08  
**APPROVED**  
Department of Health Care Access and Information  
FACILITIES DEVELOPMENT DIVISION  
11/28/2022, 4:45:42 PM  
S220849-09-00  
Tony Tan

HCAI # S220849-09-00

TESLA - MARSHALL MED CENTER ENERGY STORAGE SYSTEM

1100 MARSHALL WAY  
PLACERVILLE, CA 95667

| NO. | REVISION | DATE     | POINT OF INTERCONNECTION AT LOW VOLTAGE | HCAI COMMENTS |
|-----|----------|----------|---|---------------|
| A   |          | 6/5/22   |   |               |
| B   |          | 10/26/22 |   |               |

**LABELS & PLACARDS**

E-701

JB-95620807

REV: B    IFF

6

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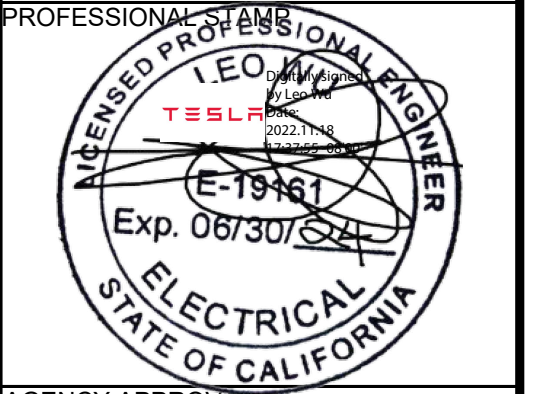
1

**B**  
LEFT INTENTIONALLY BLANK



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PALO ALTO, CA 94304  
(650) 681-5000

*Chris Maresca*  
Chris Maresca, Architect of Record, Date 11/22/22



AGENCY APPROVAL



HCAI # S220849-09-00

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ENERGY STORAGE SYSTEM  
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PLACERVILLE, CA 95667

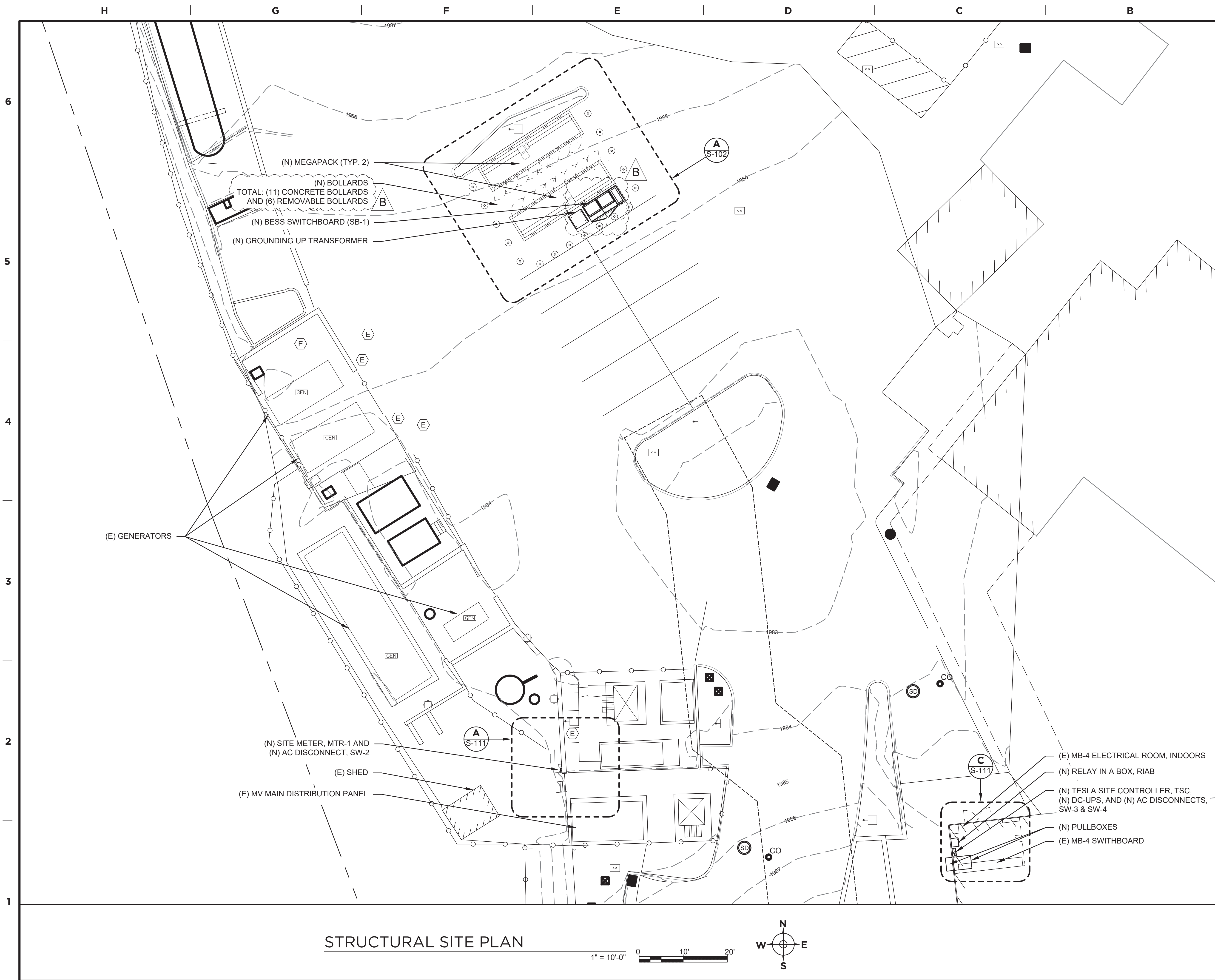
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|-----|----------|-----------------------------|----------|
| A   |          | LOW VOLTAGE                 | 8/5/22   |
| B   |          | HCAI COMMENTS               | 10/26/22 |
|     |          |                             |          |
|     |          |                             |          |
|     |          |                             |          |

LABELS & PLACARDS

E-702

JB-95620807

REV: B | IFP



### SITE LEGEND

- (N) MEGAPACK ENCLOSURE
- (N) CONCRETE BOLLARD
- (N) REMOVABLE BOLLARD
- (E) FENCE
- PROPERTY LINE

### STRUCTURAL DESIGN CRITERIA:

**DESIGN CODE:**

- 2019 CBC

**DESIGN CRITERIA:**

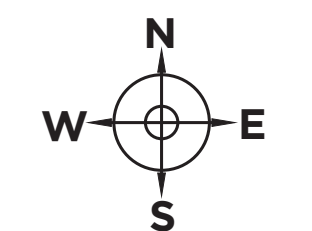
1. WIND DESIGN
  - DESIGN WIND SPEED = 105 MPH (ULTIMATE)
  - RISK CATEGORY = IV
  - WIND EXPOSURE = C
2. SEISMIC DESIGN
  - RISK CATEGORY = IV
  - SEISMIC IMPORTANCE FACTOR = 1.5
  - $S_S = 0.441$  g,  $S_1 = 0.206$  g
  - SITE CLASS = D
  - $S_{DS} = 0.425$  g,  $S_{D1} = 0.302$  g
  - SEISMIC DESIGN CATEGORY = D
  - BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT
  - $R = 2.5 / a_p = 1.0$
3. GEOTECHNICAL INFORMATION
  - ALLOWABLE BEARING PRESSURE = 1,500 PSF USED FOR EQUIPMENT FOUNDATION
4. SNOW
  - GROUND SNOW: 30PSF

### NOTES

1. SWITCHBOARD DIMENSIONS AND ANCHOR LOCATIONS ARE LIABLE TO CHANGE. VERIFY AGAINST VENDOR FINAL SHOP DRAWINGS.
2. THE PAD EXTENTS AND FOOTPRINT TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

**STRUCTURAL SITE PLAN**

1" = 10'-0"  10' 20'



3500 DEER CREEK RD.  
PALO ALTO, CA 94304  
(650) 681-5000

*Chris Maresca, Architect of Record, Date 11/22/22*

PROFESSIONAL STAMP

Yoo Jin Kim  
11-53-38-08'00"

AGENCY APPROVAL

HCAI # S220849-09-00

**TESLA - MARSHALL MED CENTER  
ENERGY STORAGE SYSTEM**

1100 MARSHALL WAY  
PLACERVILLE, CA 95667

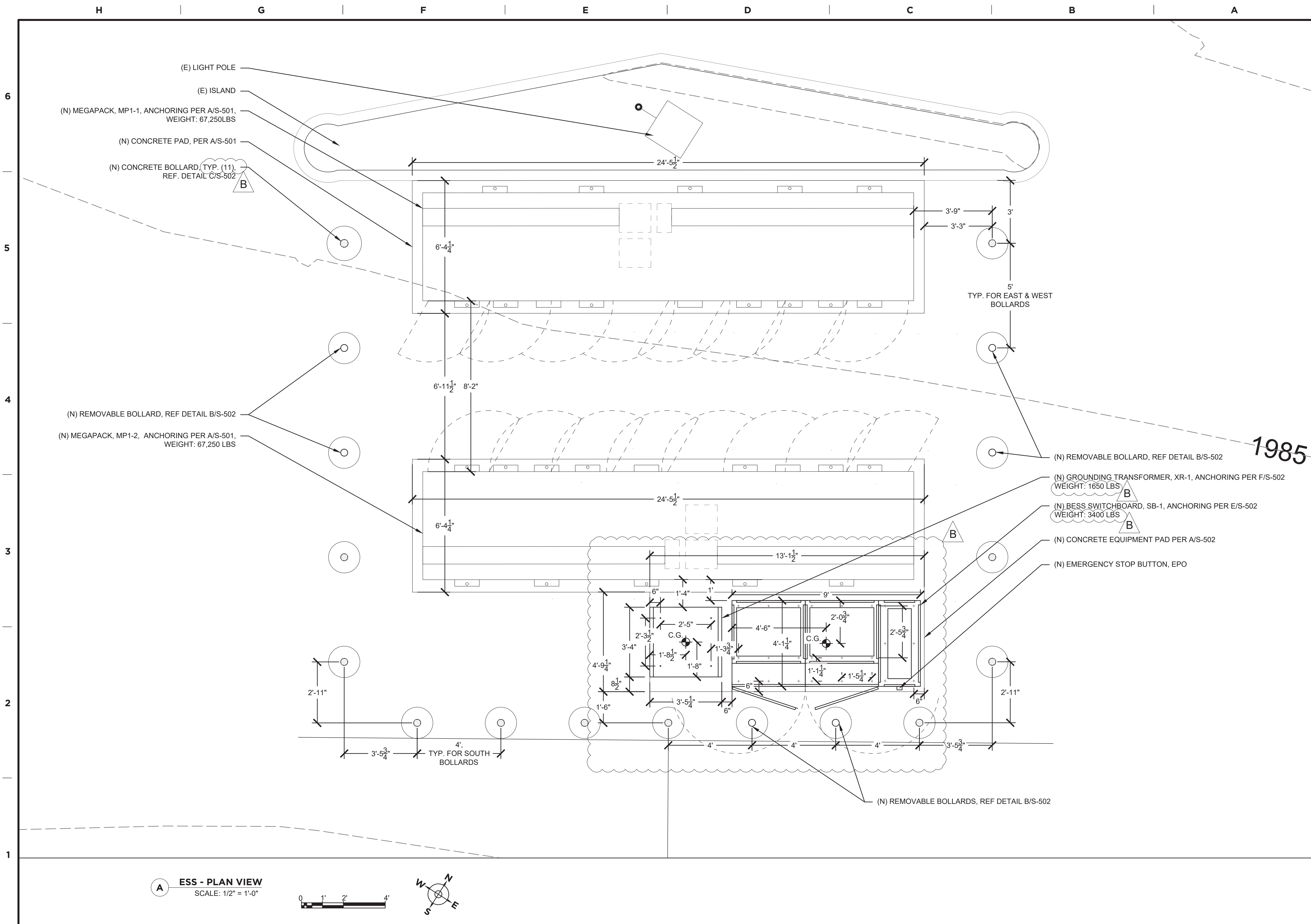
| NO. | REVISION | DATE     | POINT OF INTERCONNECTION AT LOW VOLTAGE | HCAI COMMENTS |
|-----|----------|----------|---|---------------|
| A   |          | 8/5/22   |   |               |
| B   |          | 10/26/22 |   |               |

**STRUCTURAL SITE PLAN**

S-101

JB-95620807

REV: B    IFF



**TESLA**  
3500 DEER CREEK RD.  
PALO ALTO, CA 94304  
(650) 681-5000

Chris Maresca, Architect of Record, Date 11/22/22

PROFESSIONAL STAMP  
Yoo Jin Kim  
REGISTERED PROFESSIONAL ENGINEER  
STRUCTURAL  
STATE OF CALIFORNIA  
No. 53774  
Date: 2022.11.11  
11:53:32 -08'00'

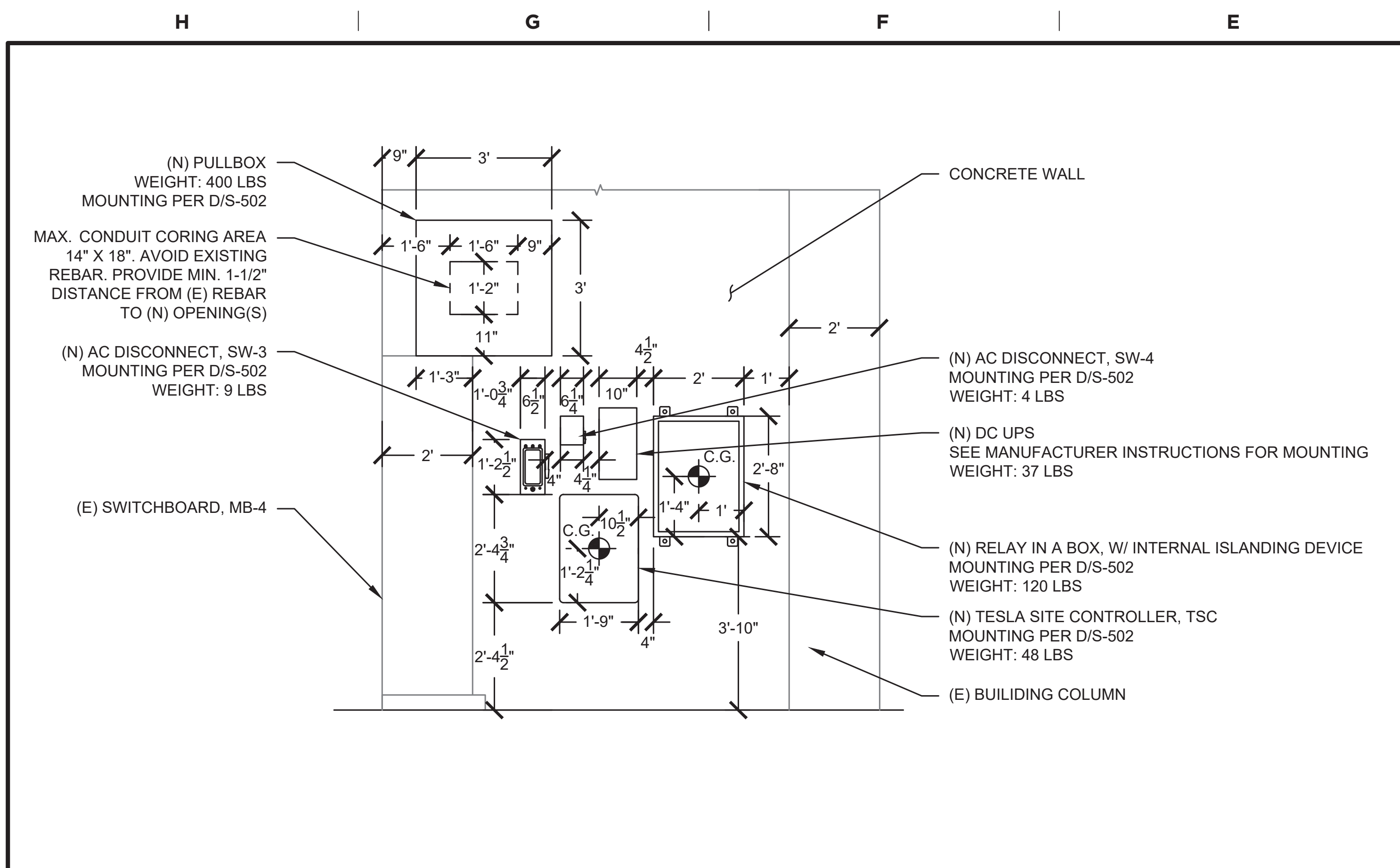
AGENCY APPROVAL  
REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24.CCR  
**APPROVED**  
Department of Health Care Access and Information  
FACILITIES DEVELOPMENT DIVISION  
11/28/2022, 4:45:42 PM  
S220849-09-00  
Tony Tan

HCAI # S220849-09-00

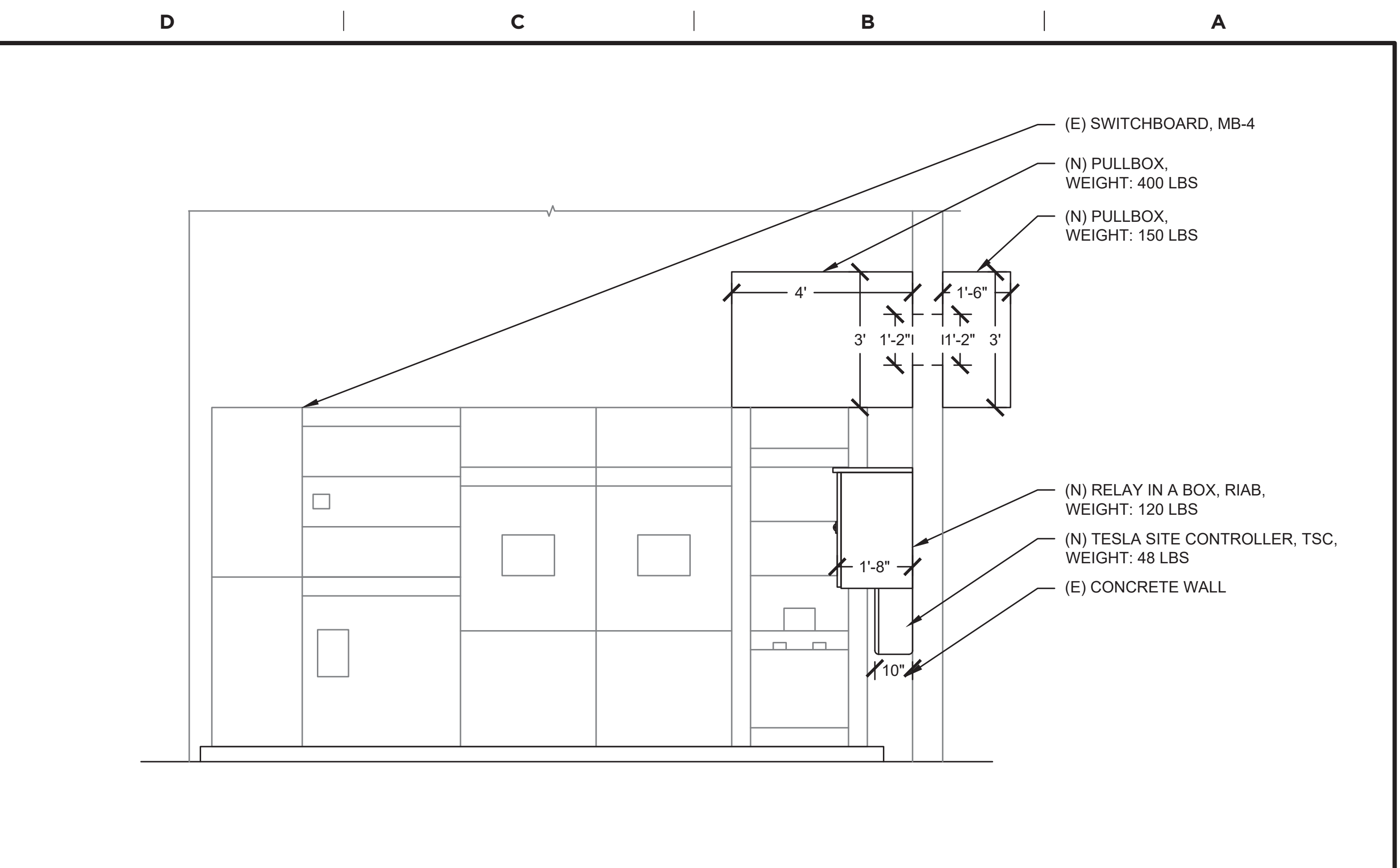
TESLA - MARSHALL MED CENTER  
ENERGY STORAGE SYSTEM  
1100 MARSHALL WAY  
PLACERVILLE, CA 95667

| NO. | REVISION                                | DATE     |
|-----|---|----------|
| A   | POINT OF INTERCONNECTION AT LOW VOLTAGE | 8/5/22   |
| B   | HCAI COMMENTS                           | 10/26/22 |

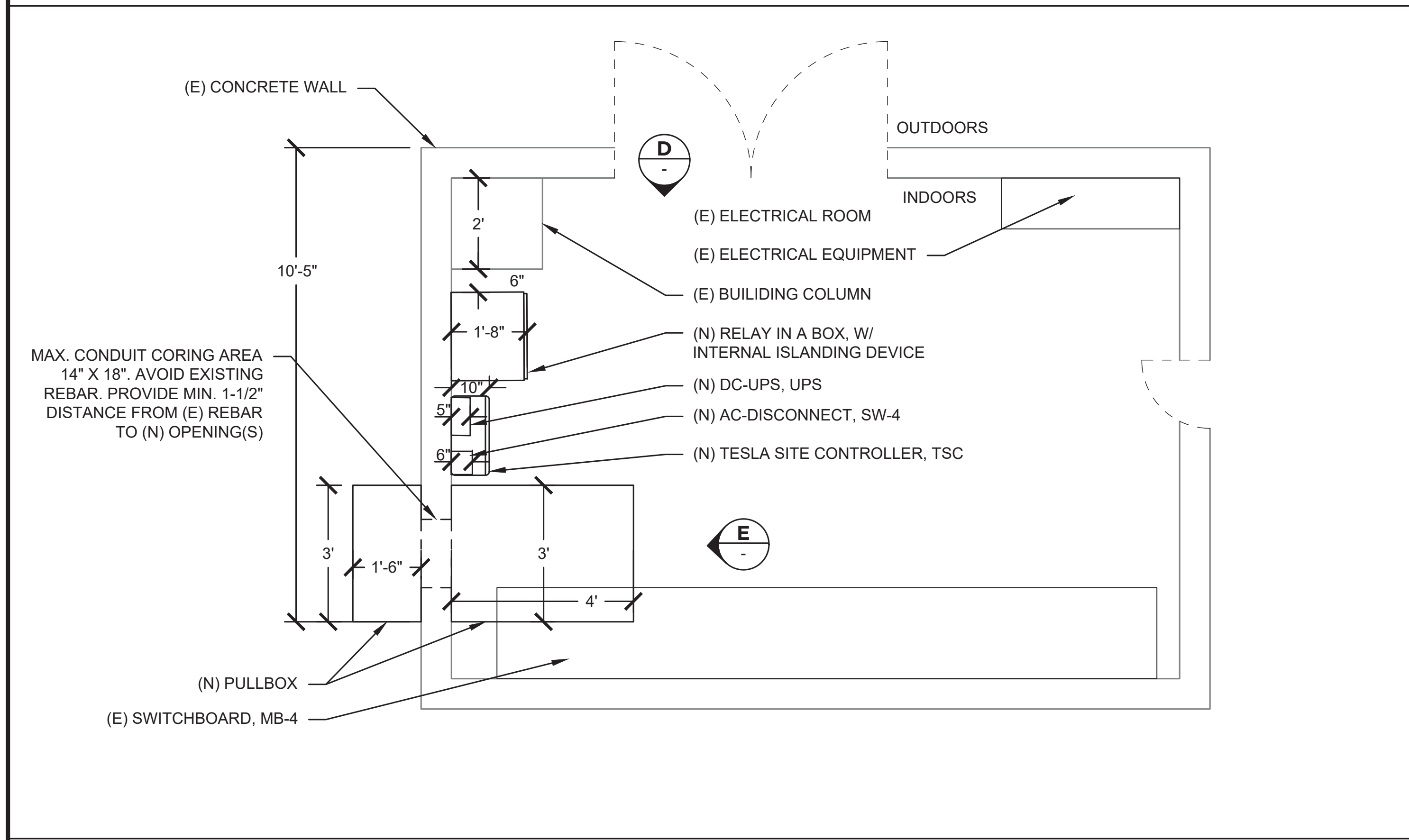
**ENLARGED SITE PLAN**  
S-102  
JB-95620807  
REV: B | IFP



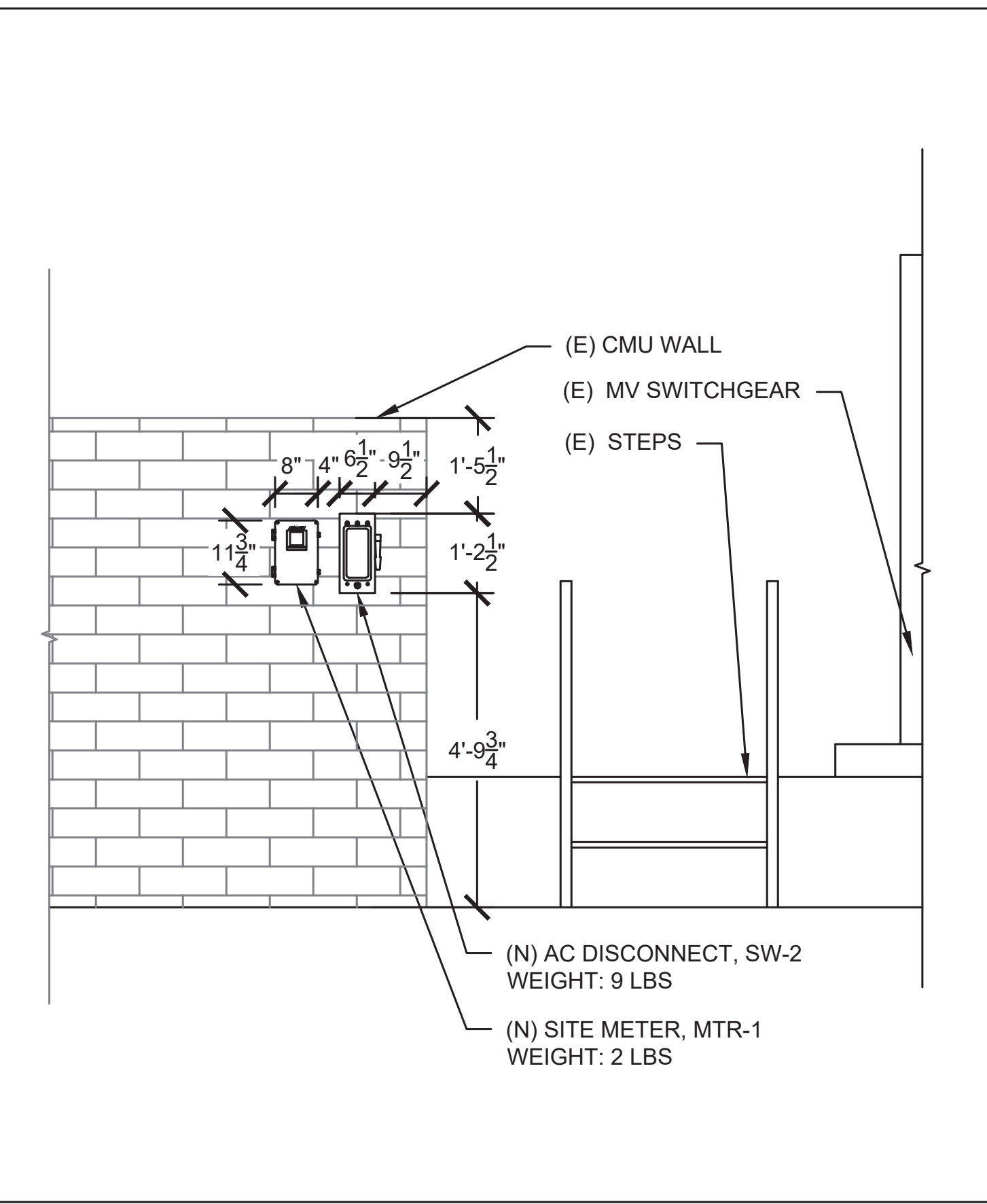
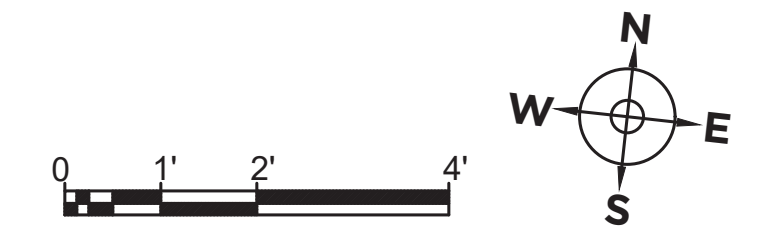
**E MSB-4 ELECTRICAL ROOM - ELEVATION VIEW**  
SCALE: 1/2" = 1'-0"



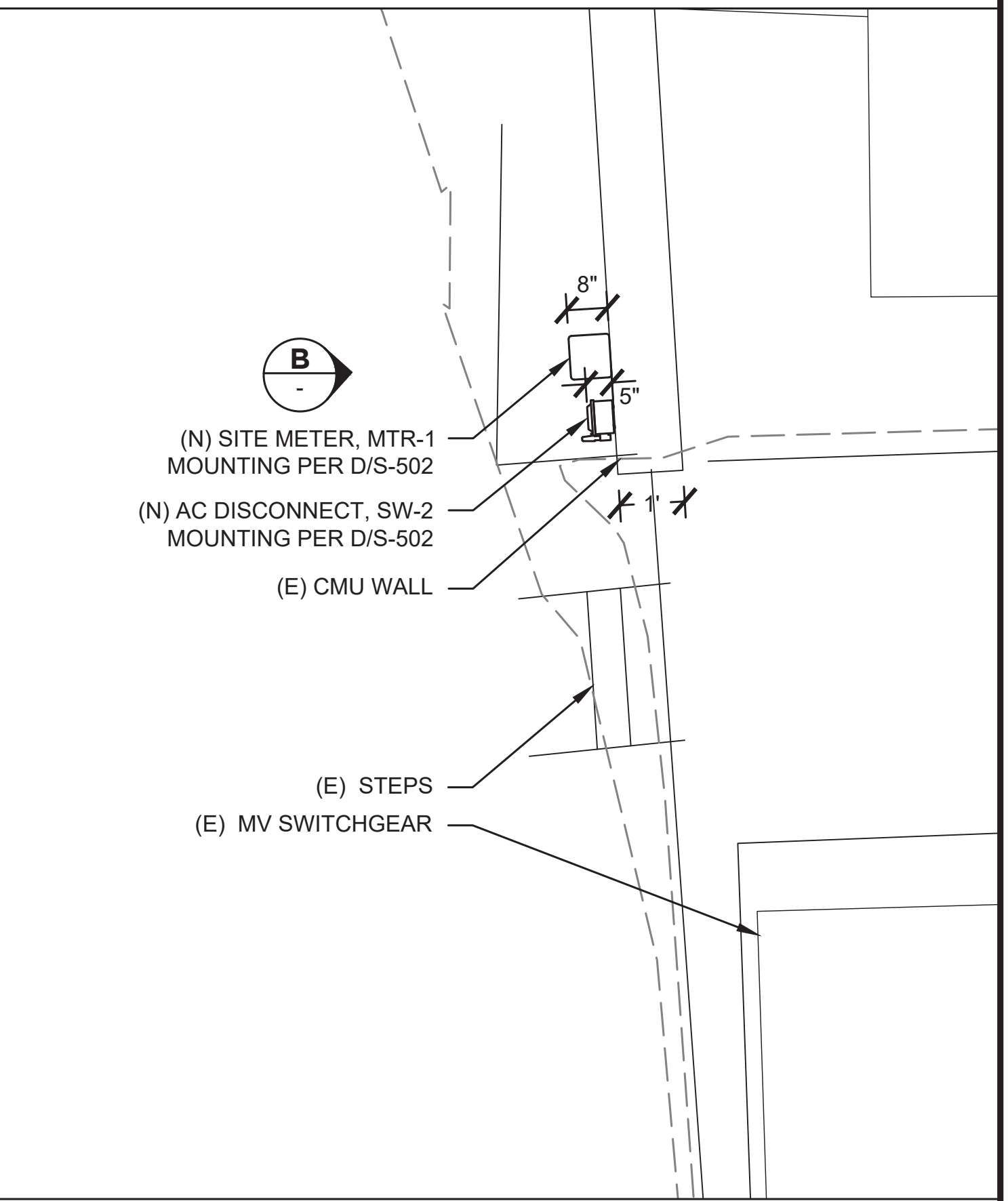
**D MSB-4 ELECTRICAL ROOM - ELEVATION VIEW**  
SCALE: 1/2" = 1'-0"



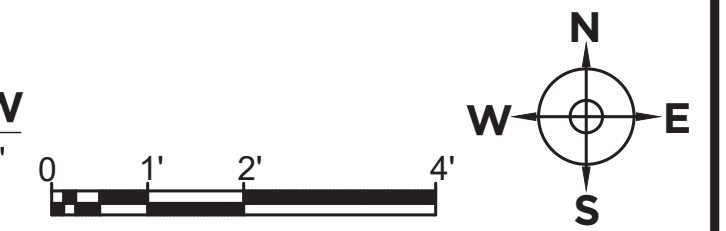
**C MSB-4 ELECTRICAL ROOM - PLAN VIEW**  
SCALE: 1/2" = 1'-0"



**B MV EQ. YARD - ELEVATION VIEW**  
SCALE: 1/2" = 1'-0"



**A MV EQ. YARD - PLAN VIEW**  
SCALE: 1/2" = 1'-0"



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Chris Marocco, Architect of Record, Date 11/22/22

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REGISTERED PROFESSIONAL ENGINEER  
STRUCTURAL  
STATE OF CALIFORNIA  
S5774

Yoo Jin Kim  
Date: 2022.11.11  
AGENCY APPROVAL 11:53:26 -08'00'

REVIEWED IN ACCORDANCE WITH  
THE REQUIREMENTS OF T24L CCR

**APPROVED**

Department of Health Care Access and Information  
FACILITIES DEVELOPMENT DIVISION

11/28/2022, 4:45:42 PM  
S220849-09-00  
Tony Tan

HCAI # S220849-09-00

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ENERGY STORAGE SYSTEM

1100 MARSHALL WAY  
PLACERVILLE, CA 95667

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| A   |          |   |               | 8/5/22   |
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|                        |     |
|------------------------|-----|
| <b>ELEVATION VIEWS</b> |     |
| S-111                  |     |
| JB-95620807            |     |
| REV: B                 | IFP |

H | G | F | E | D | C | B | A

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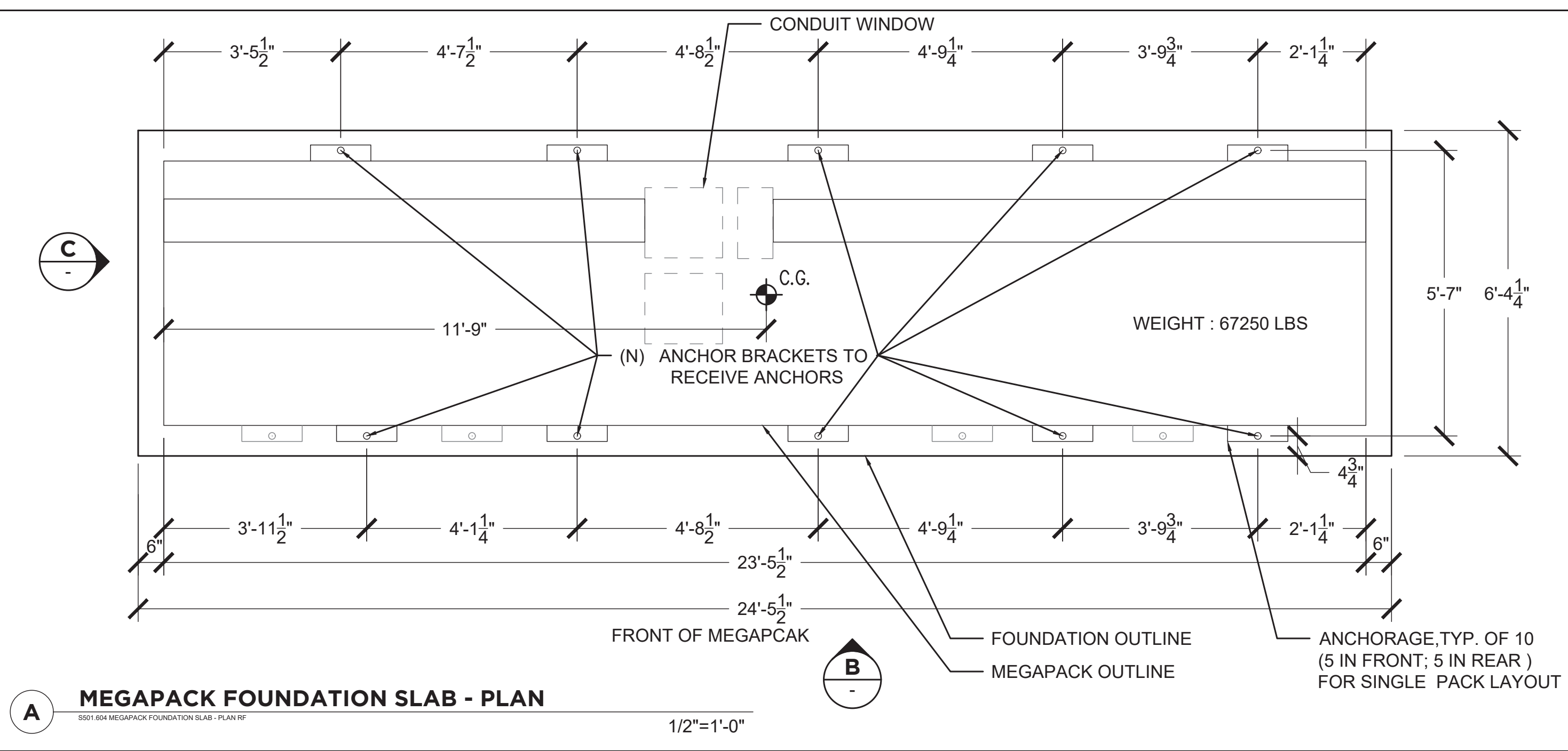
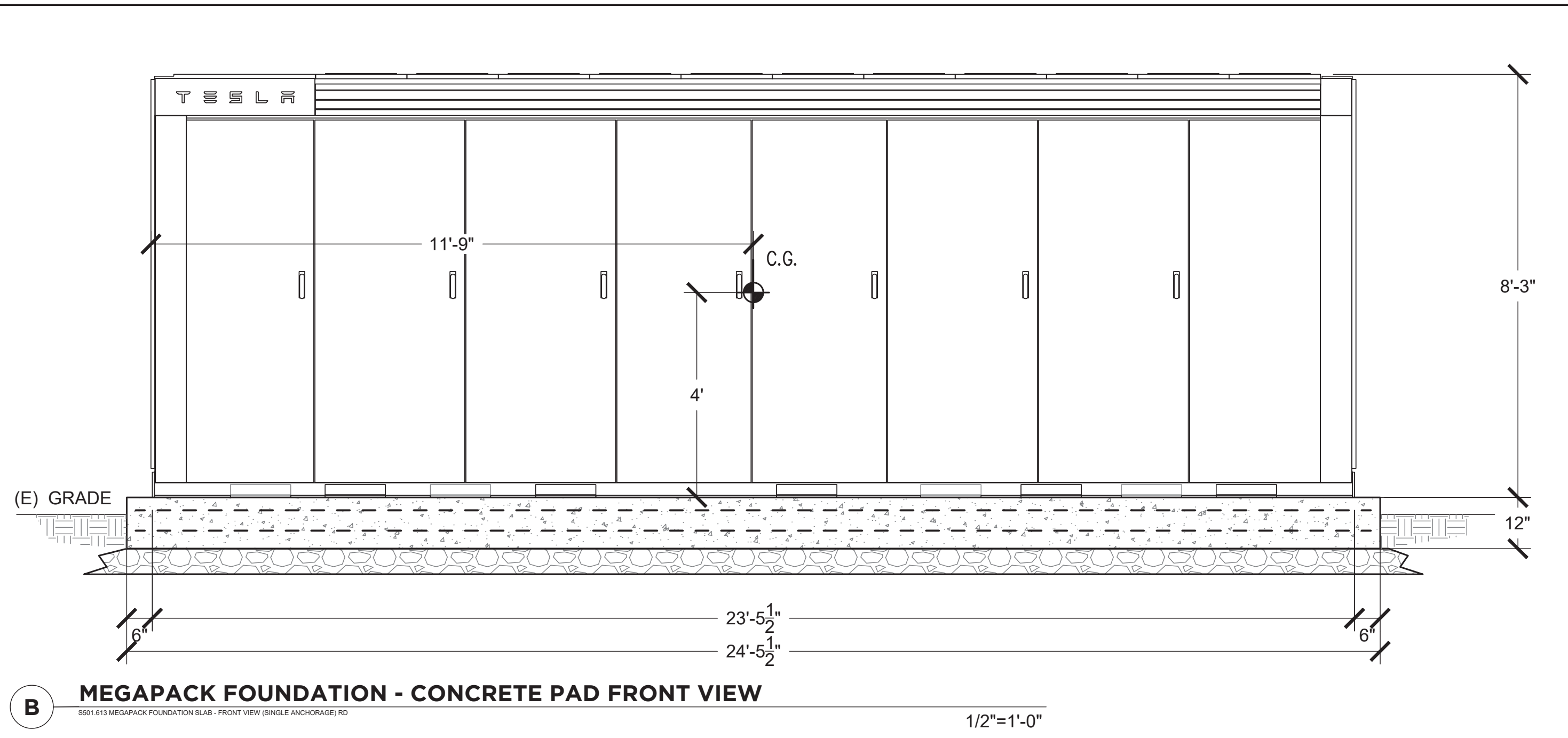
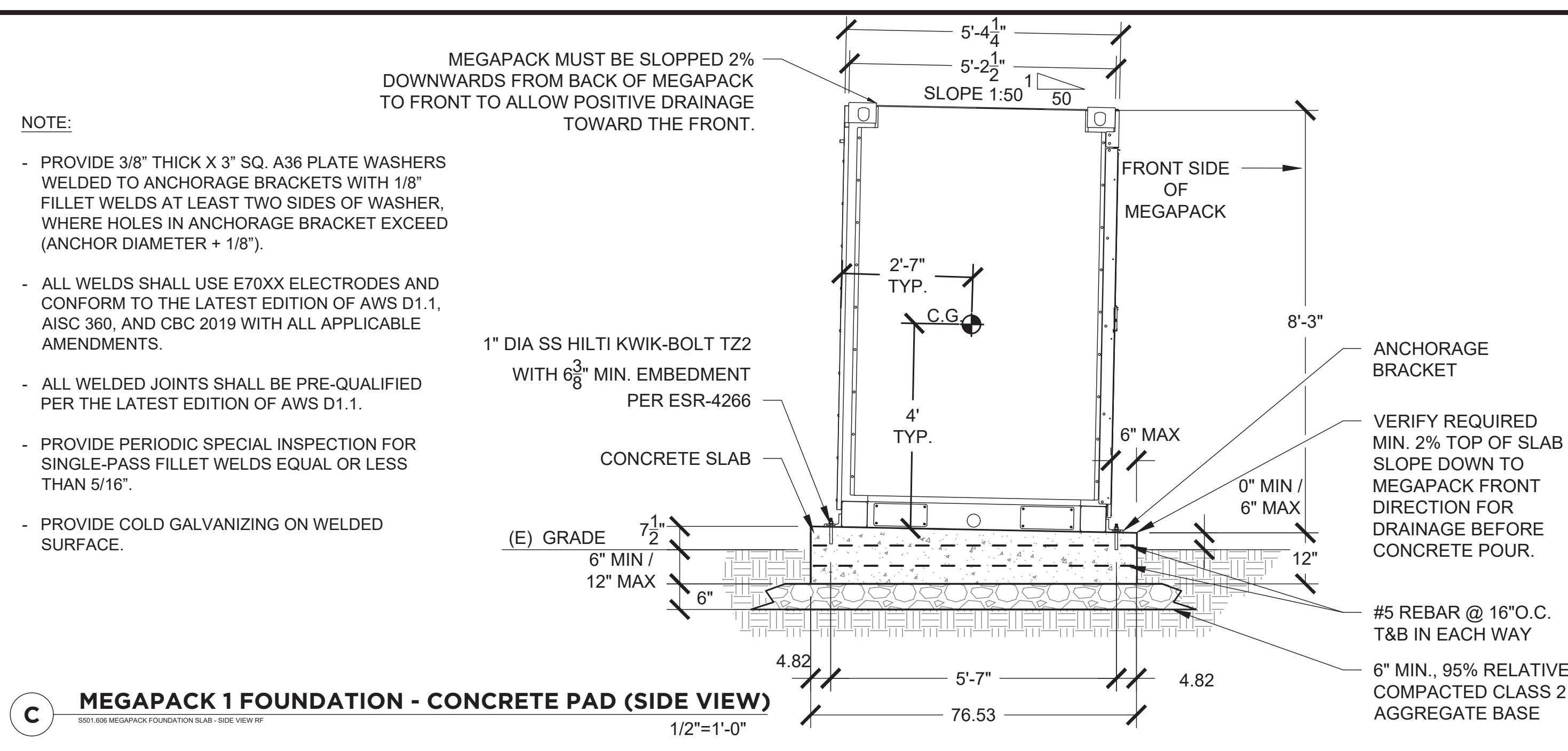
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### CONCRETE DESIGN

- CONCRETE STRENGTH - PROVIDE CONCRETE WITH THE FOLLOWING STRENGTHS AT THE LOCATIONS NOTED. MIX DESIGN, SLUMP, AIR ENTRAINMENT, AGGREGATE SIZE, ETC. SHALL BE IN CONFORMANCE WITH THE ACI CODE, LATEST EDITION. LOCATION: ANY
    - STRENGTH AT 28 DAYS: 4500 PSI
    - A. ALL CONCRETE AGGREGATE IS HARD ROCK UON
    - B. DESIGN MIX SHALL CONTAIN 5-1/2 SACKS OF CEMENT, MIN.
    - C. TYPE I/II CEMENT TO MEET ASTM C150.
    - D. AGGREGATE SHOULD MEET ASTM C33
    - E. MAX WATER/CEMENT RATIO SHALL BE 0.45
    - F. MAX SLUMP SHALL BE 4"
  - REINFORCING STEEL - ASTM A615 WITH THE FOLLOWING STRENGTHS:
 

| SIZE           | STRENGTH:                 |
|----------------|---------------------------|
| #4 AND SMALLER | GRADE 60 (fy = 60000 PSI) |
| #5 AND LARGER  | GRADE 60 (fy = 60000 PSI) |
  - FABRICATE AND PLACE REINFORCEMENT IN ACCORDANCE WITH ACI PUBLICATION SP-66, ACI DETAILING MANUAL - LATEST EDITION.
  - CONCRETE IN COMPLIANCE WITH ACI 304. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED.
  - CONCRETE COVER FOR REINFORCEMENT FOR NON-PRESTRESSED, CAST IN PLACE CONCRETE SHALL BE AS FOLLOWS:
 

| CONDITION          | COVER  |
|--------------------|--------|
| CAST AGAINST EARTH | 3"     |
| EXPOSED TO WEATHER |        |
| #5 AND SMALLER     | 1-1/2" |
| #6 AND LARGER      | 2"     |
| SLAB-ON-GRADE      | 2"     |
  - EMBEDS - ALL ITEMS TO BE CAST INTO CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY AND ACCURATELY POSITIONED INTO THE FORMS PRIOR TO PLACING THE CONCRETE.
  - MAX. CONTINUOUS SLAB LENGTH SHOULD NOT EXCEED 50 FT W/O EXPANSION JOINT
- FOUNDATION NOTES:
- ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF USED FOR EQUIPMENT FOUNDATION

|    | TYPE   | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION |
|----|--|-------------------------------|-----------------------------|
| 1. | INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.   | -                             | X                           |
| 2. | INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.   | -                             | X                           |
| A. | ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS.   | X                             | -                           |
| B. | MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 2.A.  | -                             | X                           |
| 3. | VERIFY USE OF REQUIRED DESIGN MIX.   | -                             | X                           |
| 4. | PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | X                             | -                           |
| 5. | INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.  | X                             | -                           |
| 6. | VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.   | -                             | X                           |
| 7. | INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED  | -                             | X                           |

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Chris Mercedes, Architect of Record, Date 11/22/22

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER  
S 5717  
STRUCTURAL  
STATE OF CALIFORNIA  
Yoo Jin Kim, dated by Yoo Jin Kim  
11/22/22 11:53:20

AGENCY APPROVAL

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24L C08  
**APPROVED**  
Department of Health Care Access and Information  
FACILITIES DEVELOPMENT DIVISION  
11/28/2022, 4:45:42 PM  
S220849-09-00  
Tony Tan

HCAI # S220849-09-00

TESLA - MARSHALL MED CENTER  
ENERGY STORAGE SYSTEM

1100 MARSHALL WAY  
PLACERVILLE, CA 95667

| NO. | REVISION | POINT OF INTERCONNECTION AT LOW VOLTAGE | HCAI COMMENTS | DATE     |
|-----|----------|---|---------------|----------|
| A   |          |   |               | 8/5/22   |
| B   |          |   |               | 10/26/22 |

**STRUCTURAL DETAILS**

S-501

JB-95620807

REV: B | IFP



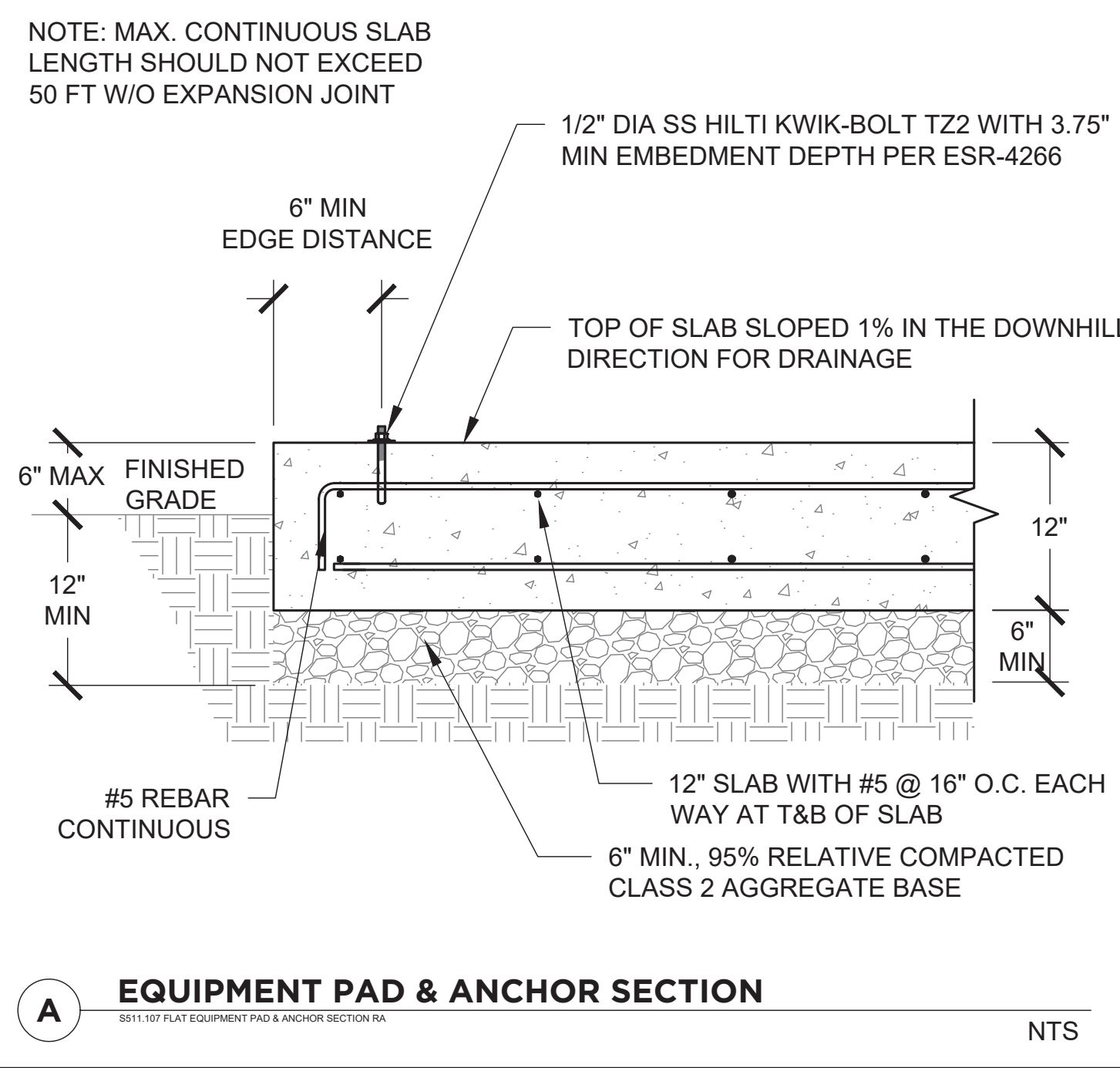
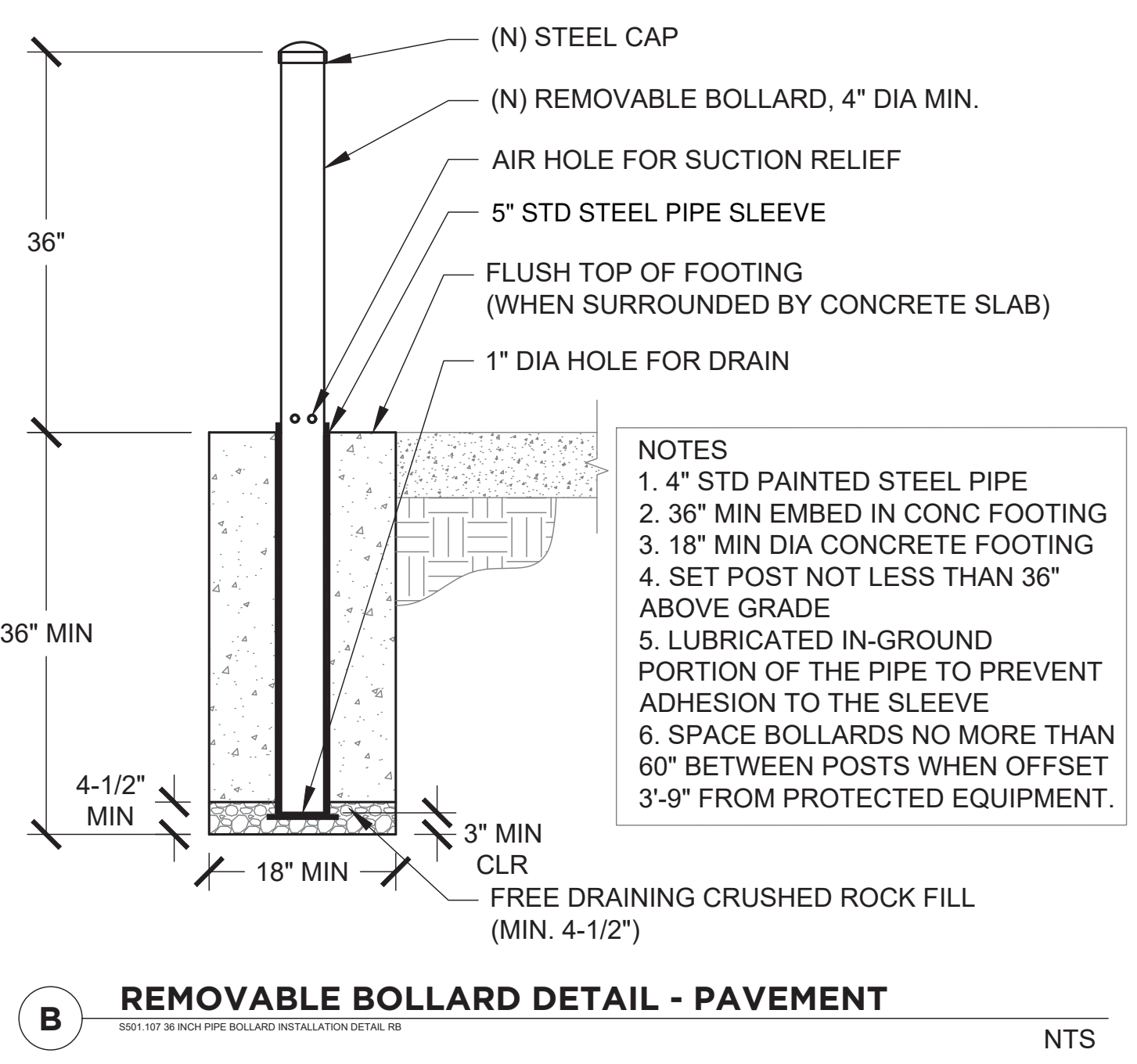
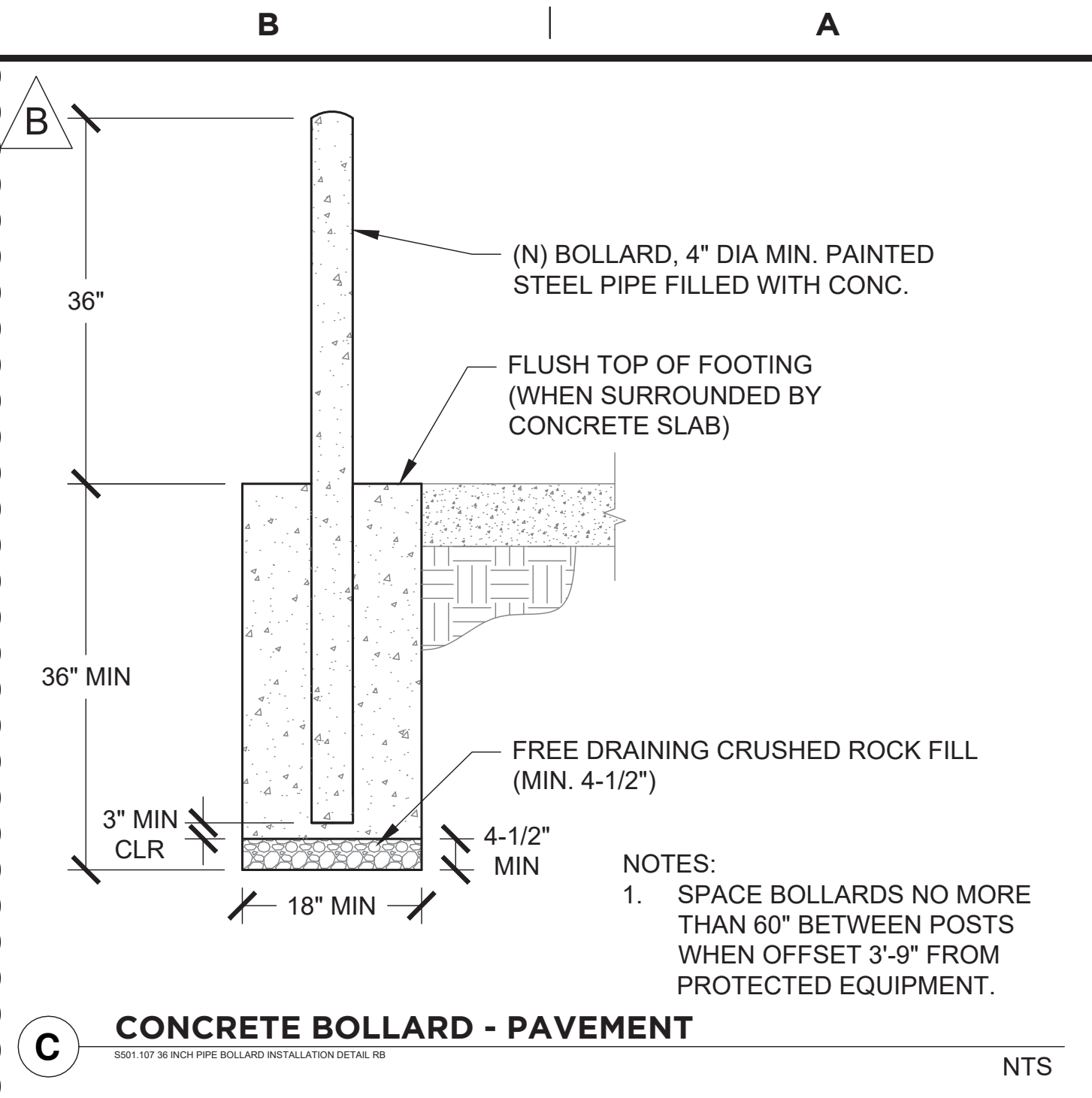
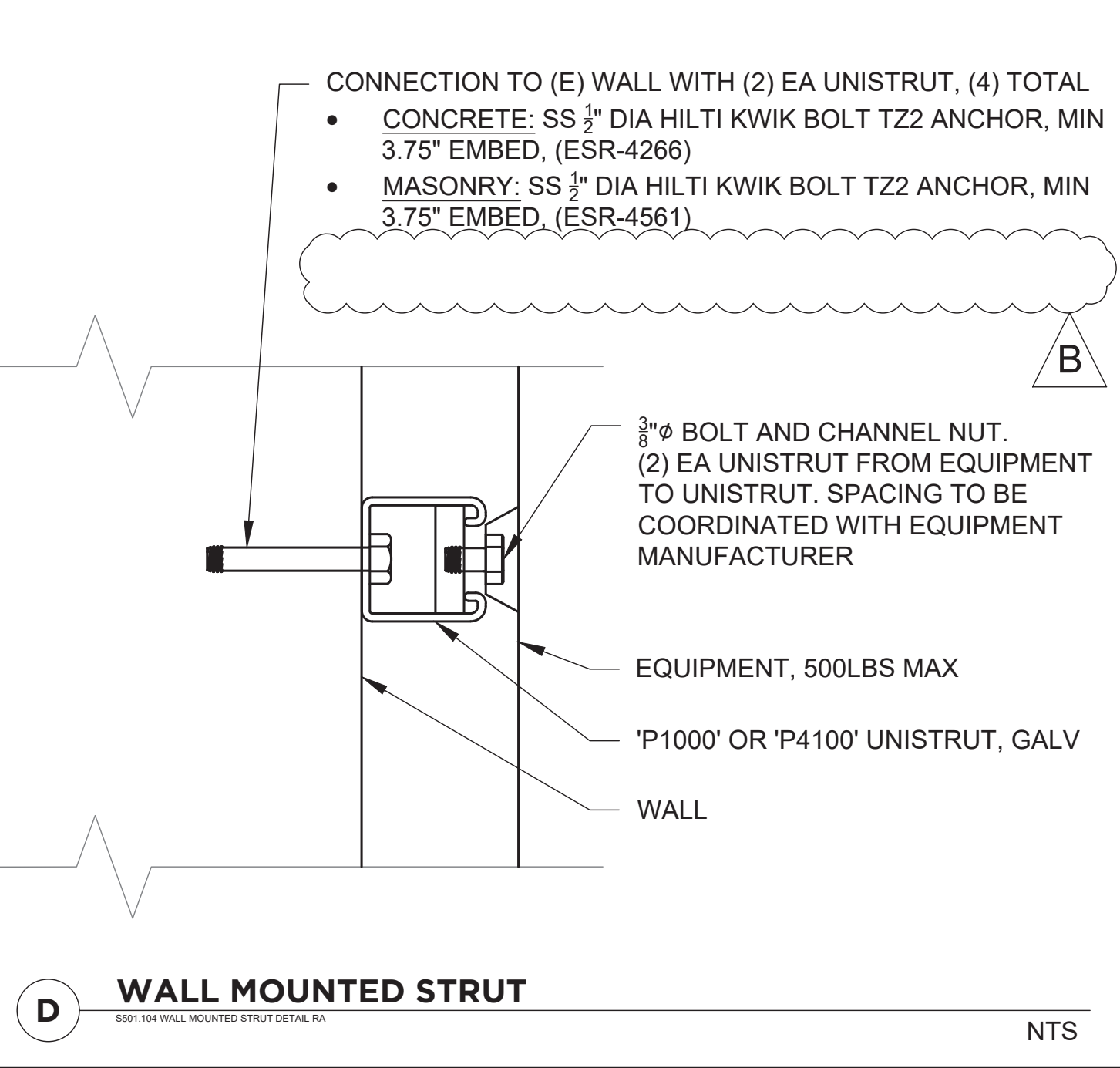
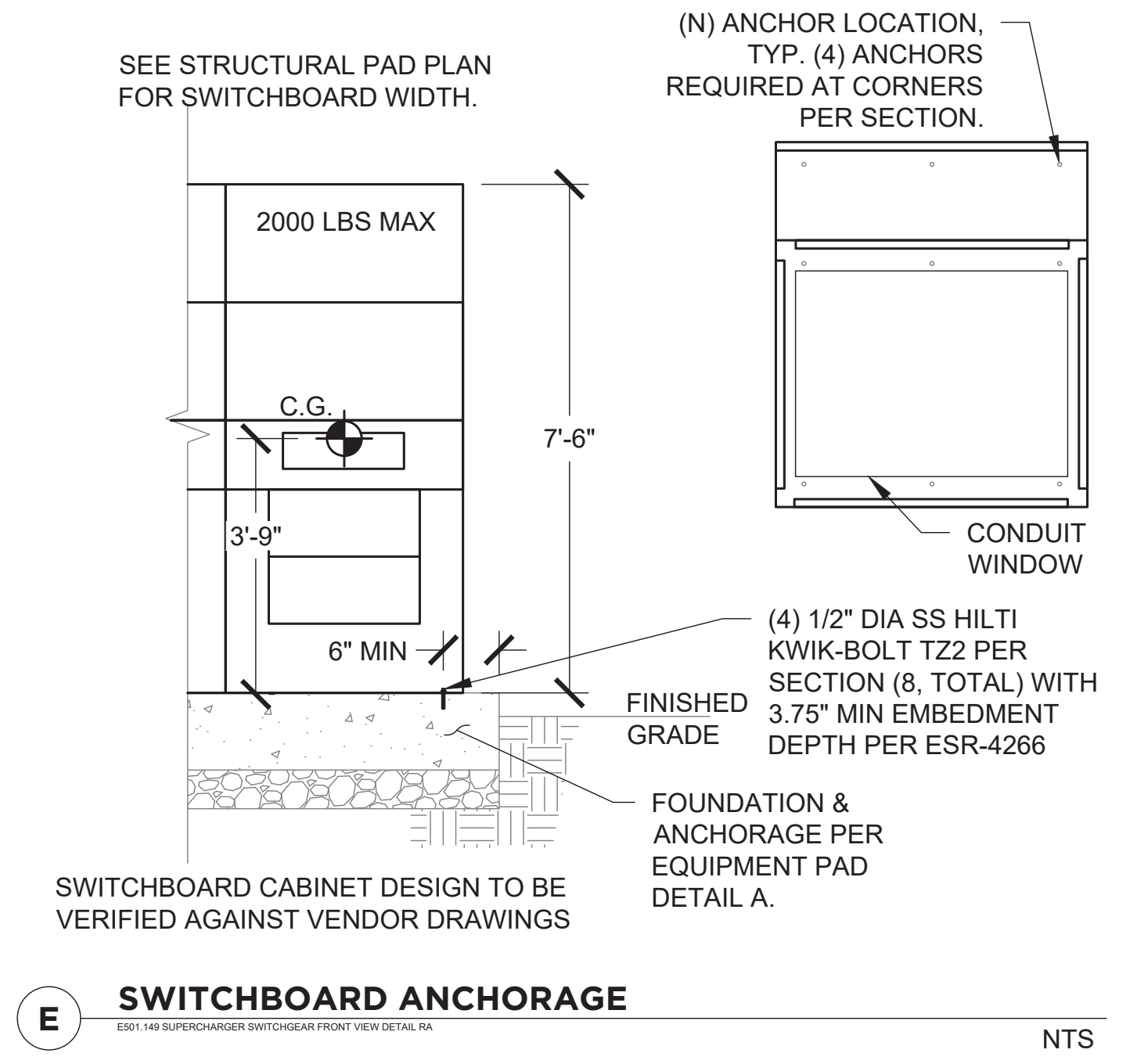
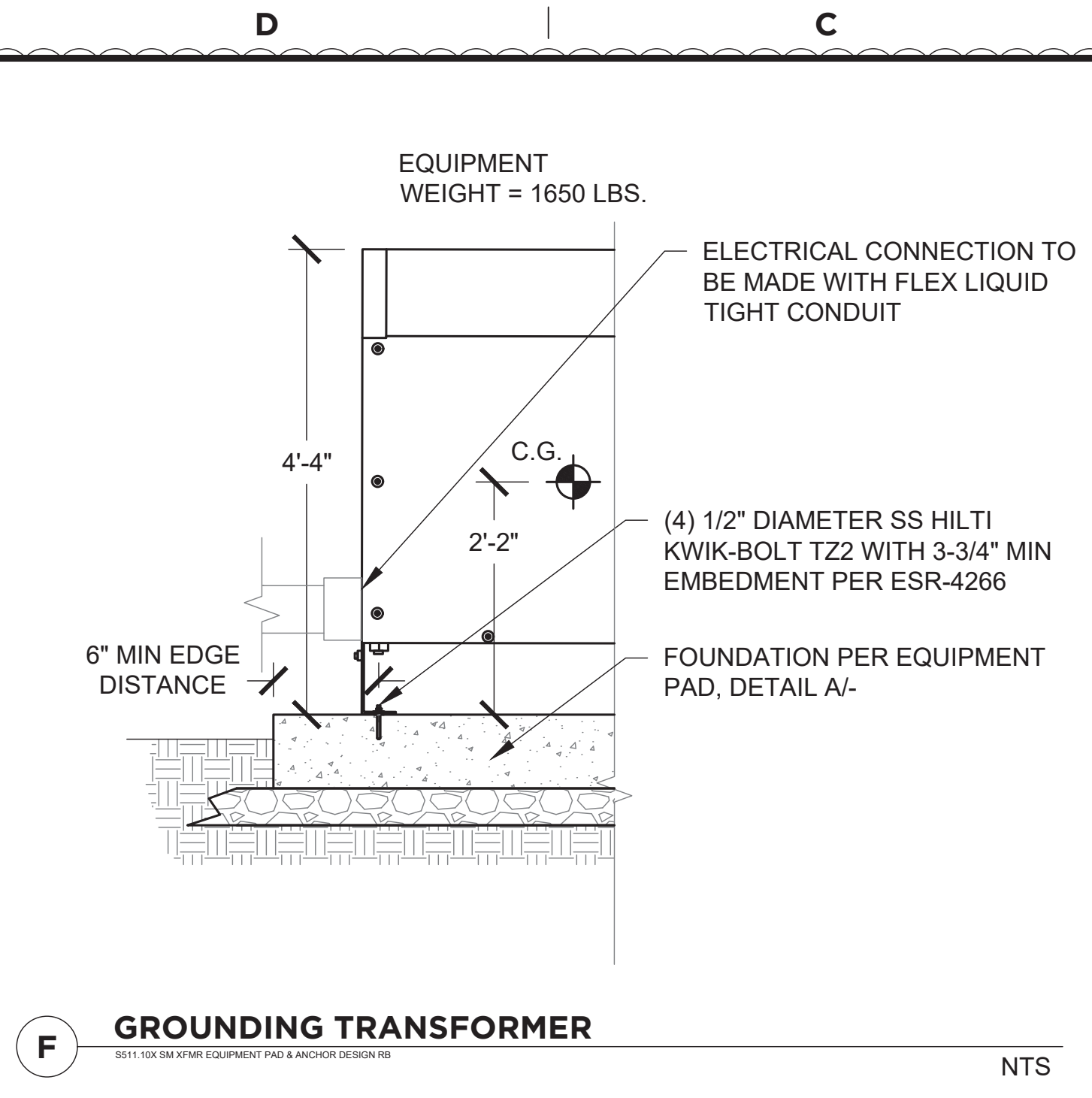
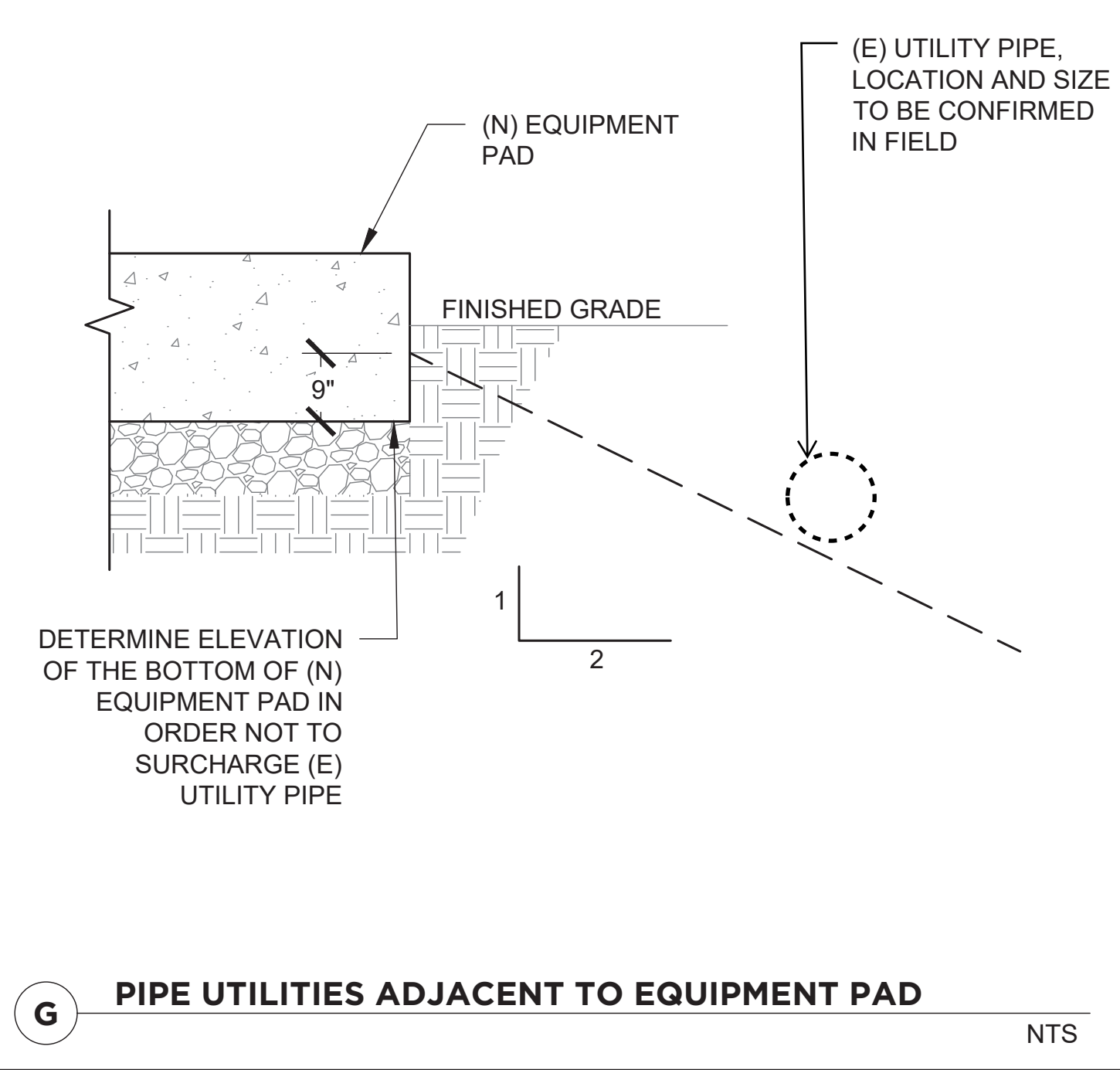
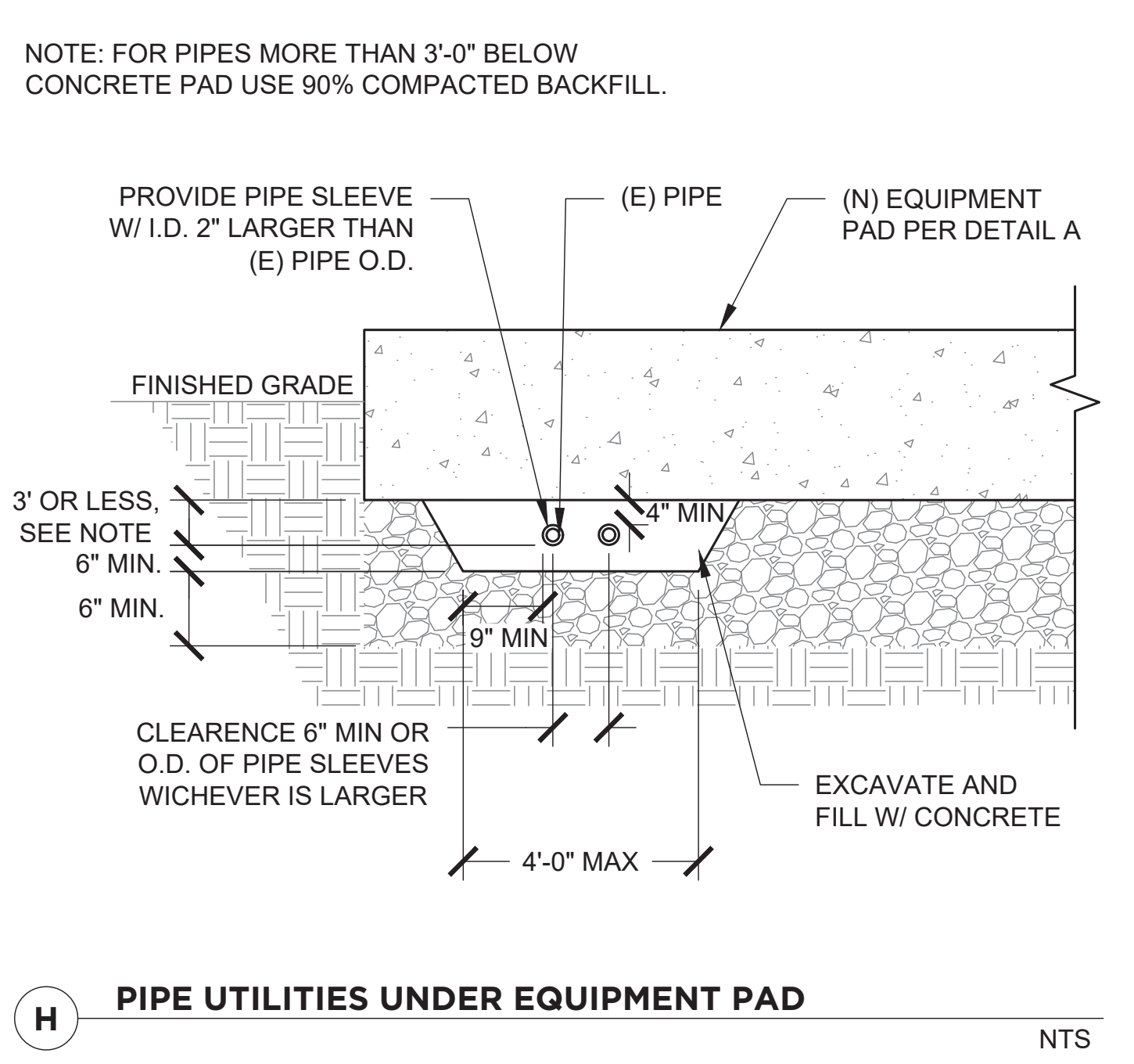
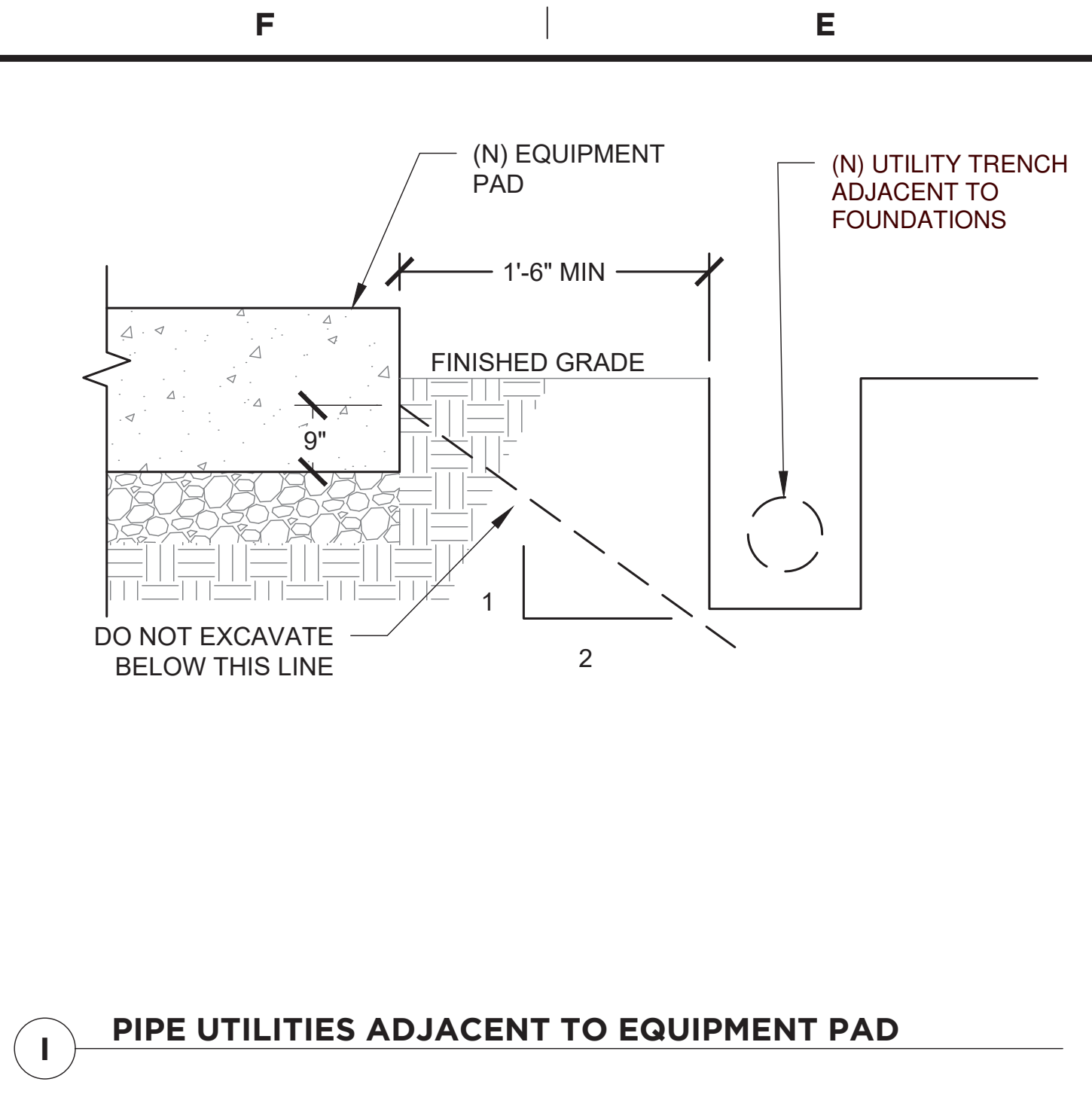
**POST INSTALLED ANCHORS IN HARDENED CONCRETE**

- EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KWIK-BOLT TZ2 (ESR-4266) SEE DETAILS FOR SPECIFIC ANCHOR USED. INSTALL ANCHORS IN ACCORDANCE WITH THE LATEST ICC REPORT.
- PROVIDE STAINLESS STEEL FASTENERS FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
- ALL POST-INSTALLED ANCHORS SHALL HAVE A CURRENT ICC-ES EVALUATION REPORT AND SHALL STATE THAT THE ANCHORS WERE TESTED IN ACCORDANCE WITH AC193, LATEST REVISION, ACCEPTANCE CRITERIA FOR MECHANICAL ANCHORS IN CONCRETE ELEMENTS, INCLUDING TESTS FOR MECHANICAL ANCHORS SUBJECTED TO WIND OR SEISMIC LOADS.
- INSPECT POST-INSTALLED ANCHOR INSTALLATION WITH A SPECIAL INSPECTOR SPECIFICALLY APPROVED BY THE ENFORCEMENT AGENCY FOR THAT PURPOSE.
- MINIMUM EMBEDMENT OF ANCHORS, UNLESS OTHERWISE NOTED:
 

| ANCHOR DIA.          | WEDGE EMBEDMENT |
|----------------------|-----------------|
| 1/2" EXPANSION WEDGE | 3-3/4"          |
| 1" EXPANSION WEDGE   | 6-3/8"          |
- TEST EXPANSION ANCHOR IN THE PRESENCE OF THE PROJECT INSPECTOR. TESTING SHALL OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
- TEST QUANTITY OF EXPANSION ANCHORS AS NOTED BELOW:
 

| APPLICATION                            | QUANTITY  |
|--|---|
| NON-STRUCTURAL (EQUIP ANCHORAGE, ETC.) | 50% OF BOLTS, INCLUDING AT LEAST 1/2 THE ANCHORS IN EACH GROUP. |
- APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY TRANSMIT A MEASURED TENSION LOAD TO THE ANCHOR. ACCEPTABLE METHODS INCLUDE: HYDRAULIC JACK WITH UNCONFINED OR CONFINED TESTING, CALIBRATED SPRING LOADED DEVICES OR CALIBRATED TORQUE WRENCH FOR TORQUE-CONTROLLED EXPANSION ANCHORS. DO NOT TEST INTERNALLY THREADED SHELL-TYPE ANCHORS AND DISPLACEMENT-CONTROLLED ANCHORS (E.G. DROP-IN ANCHORS) AND SCREW ANCHORS USING A TORQUE WRENCH.
- TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
- THE FOLLOWING CRITERIA APPLY FOR THE TESTING AND ACCEPTANCE OF INSTALLED ANCHORS:
  - TORQUE WRENCH METHOD: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH. MUST ATTAIN THE SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT.
  - IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE, INSTALLED BY THE SAME TRADE, NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME INITIAL TESTING FREQUENCY. ABANDON HOLES DRILLED FOR ANCHORS THAT DO NOT PROPERLY SET OR THAT FAIL A TENSION TEST. FILL WITH NON-SHRINK GROUT.
- TEST LOADS (4,500 PSI, NWC, CRACKED CONDITION) HARDROCK OR LIGHTWEIGHT CONCRETE
 

| EXPANSION WEDGE ANCHOR DIA. (SIZE) | TORQUE (FT-LBS) (STAINLESS) |
|------------------------------------|-----------------------------|
| 1/2"                               | 40                          |
| 1"                                 | 185                         |
- IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER OF RECORD WILL DETERMINE A NEW LOCATION OR AUTHORIZE USING ONE OF THE FOLLOWING PROCEDURES. SUBMIT A CHANGE ORDER TO OSHPD FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.
  - IF A WEDGE ANCHOR IS BEING USED, USE A DIAMOND CORE DRILL TO CUT THE REINFORCING AND DRILL THE HOLE BEYOND THE REINFORCING SO THAT THE WHOLE WEDGE PORTION OF THE ANCHOR CAN BE EXPANDED BELOW THE BAR, OR
  - IF THE ANCHOR LOCATION MAY NOT BE SHIFTED, CORE AN OVERSIZE HOLE AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD AND GROUT AN APPROVED ANCHOR IN PLACE WITH MASTER BUILDERS EMBECO MASTERFLOW 885 HIGH STRENGTH GROUT. VERIFY ANCHOR CAPACITY PER DIRECT TENSION TEST AS INDICATED ABOVE.
- WHERE TOPPING SLAB IS ADDED, ANCHORAGE EMBEDMENT IS MEASURED AS DEPTH INTO EXISTING CONCRETE SLAB.



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Chris Marzica, Architect of Record, Date 11/20/22

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER  
YOO JIN KIM  
STRUCTURAL  
STATE OF CALIFORNIA  
No. 53774  
Signed by Yoo Jin Kim  
Date: 2022.11.11 11:53:14  
-0600

Yoo Jin Kim  
AGENCY APPROVAL

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24L C08  
**APPROVED**  
Department of Health Care Access and Information  
FACILITIES DEVELOPMENT DIVISION  
11/29/2022, 4:45:42 PM  
S220849-09-00  
Tony Tan

HCAI # S220849-09-00

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| A   |          | HCAI COMMENTS                           | 8/5/22   |
| B   |          |   | 10/26/22 |

**STRUCTURAL DETAILS**

S-502

JB-95620807

REV: B IFF

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3500 DEER CREEK RD.  
PALO ALTO, CA 94304  
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*Chris Maresca*  
Chris Maresca, Architect of Record, Date 11/22/22

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Yoo Jin Kim  
Date: 2022.11.11 11:53:08  
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AGENCY APPROVAL



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|     |               |                             |          |
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|     |               |                             |          |

**STRUCTURAL  
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S-503

JB-95620807

REV: B | IFP