Appendix D:
Camille Creek
Drawings

G0.01 - COVER SHEET

NCOE

NAPA COUNTY OFFICE OF EDUCATION

CAMILLE CREEK COMMUNITY SCHOOL - BATTERIES ENCLOSURE

05/21/2025

CODES & STANDARDS

PARTIAL LIST OF APPLICABLE CODES

2025 California Administrative Code (CAC) ..... (Part 1, Title 24, CCR)
2022 California Building Code (CBC) ..... (Part 2, Title 24, CCR)
(2021 International Building Code Volumes 1 & 2 with 2022 California Amendments)
2022 California Electrical Code (CEC) ..... (Part 3, Title 24, CCR)
(2020 National Electrical Code with 2022 California Amendments)
2022 California Mechanical Code (CMC) ..... (Part 4, Title 24, CCR)
(2021 IAPMO Uniform Mechanical Code with 2022 California Amendments)
2022 California Plumbing Code (CPC) ..... (Part 5, Title 24, CCR)
(2021 IAPMO Uniform Plumbing Code with 2022 California Amendments)
2022 California Energy Code (CEC) ..... (Part 6, Title 24, CCR)
2022 California Fire Code (CFC) ..... (Part 9, Title 24, CCR)
(2021 International Fire Code with 2022 California Amendments)
2022 California Existing Building Code (CEBC) ..... (Part 10, Title 24, CCR)
(2021 International Existing Building Code with 2022 California Amendments)
2022 California Green Building Standards Code (CALGreen) ..... (Part 11, Title 24, CCR)
2022 California Referenced Standards Code ..... (Part 12, Title 24, CCR)
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2019 ASME A17.1/CSA B44-13 Safety Code For Elevators and Escalators (per 2022 CBC Part 2, Ch 35)
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 .... Standard for the Installation of Sprinkler Systems (as amended) * ..... (2022 Edition)
NFPA 14 .... Standard for the Installation of Standpipe and Hose Systems (as amended) * ..... (2019 Edition)
NFPA 17 .... Standard for Dry Chemical Extinguishing Systems ..... (2021 Edition)
NFPA 17A.. Standard for Wet Chemical Extinguishing Systems ..... (2021 Edition)
NFPA 20 .... Standard for the Installation of Stationary Pumps for Fire Protection ..... (2019 Edition)
NFPA 22 .... Standard for Water Tanks for Private Fire Protection ..... (2013 Edition)
NFPA 24 .... Standard for the Installation of Private Fire Service Mains and Their Appurtenances (as amended)* ..... (2019 Edition)
NFPA 25 .... Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems with California Amendments (Based on NFPA 25, 2011 Edition) ..... (2013 Edition)
NFPA 72 .... National Fire Alarm and Signaling Code (as amended) * ..... (2022 Edition)
NFPA 80 .... Fire Doors and Other Opening Protectives ..... (2019 Edition)
NFPA 92 .... Standard for Smoke Control Systems ..... (2018 Edition)
NFPA 253 .. Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source ..... (2019 Edition)
NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems (as amended) * ..... (2018 Edition)
ICC 300 ..... ICC Standard on Bleachers, Folding and Telescoping Seating and Grandstands ..... (2017 Edition)
UL 300 ..... Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment—with Revisions through December 2014 ..... 2005 (R2010)
UL 464 ..... Audible Signal Appliances—with Revisions through October 10, 2003 ..... (2003 Edition)
UL 521 ..... Heat Detectors for Fire Protective Signaling Systems—with Revisions through July 20, 2005 ..... (1999 Edition)
UL 1971 .... Standard for Signaling Devices for the Hearing Impaired ..... 2002(R2012)
* See CBC Chapter 35, Referenced Standards for State of California amendments to the NFPA Standards.
For a complete list of applicable NFPA standards refer to 2022 CBC (SFM) Chapter 35 and California Fire Code (CFC) Chapter 80.

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THE CODES AND ALL APPLICABLE LOCAL ORDINANCES. WHERE CONTRACT DOCUMENTS EXCEED SUCH REQUIREMENTS, WITHOUT VIOLATING SUCH CODES, REGULATIONS AND ORDINANCES, CONTRACT DOCUMENTS TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.
2. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND PROJECT MANUAL (SPECIFICATIONS) AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
3. REFER TO THE PROJECT MANUAL (SPECIFICATIONS) FOR GENERAL CONDITIONS, SUPPLEMENTARY AND SPECIAL CONDITIONS, AND OTHER REQUIREMENTS.
4. THE CONSTRUCTION DOCUMENT DRAWINGS AND PROJECT MANUAL (SPECIFICATIONS) ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
5. THE CONTRACTOR SHALL:
   A. CONFIRM ALL NEW AND EXISTING CONDITIONS WITH THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ALL DISCREPANCIES OR CONFLICTS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY THE ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM THE ARCHITECT, IT SHALL BE AT THE CONTRACTOR'S RISK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
   B. REVIEW THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF SYSTEMS SHOWN ON CONSULTING ENGINEER'S DOCUMENTS. DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEER'S DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
   C. CORRECT ALL WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS BY THE CONTRACTOR AS DIRECTED BY THE ARCHITECT AND AT NO ADDITIONAL EXPENSE TO THE OWNER.
   D. VISIT JOB SITE PRIOR TO BEGINNING WORK AND VERIFY ALL DIMENSIONS.
   E. SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE WORK ACCORDINGLY.
   F. PROVIDE FOR THE PROPER SEQUENCE OF CONSTRUCTION, LOCATION, AND SIZE OF OPENINGS. COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY THE ARCHITECT.
   G. PROVIDE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. PROVIDE TEMPORARY PASSAGES AS REQUIRED. PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE, CHECK WITH OWNER FOR ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES USE AREA OUTSIDE THE CONSTRUCTION ZONE WITHOUT PRIOR CLEARANCE FROM THE OWNER. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT MANUAL.
   H. REMOVE ALL TRASH AND DEBRIS DAILY. DO NOT STORE BUILDING MATERIALS IN CORRIDORS AT ANY TIME. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT MANUAL (SPECIFICATIONS).
   I. ENACT ALL MEASURES TO PROTECT IN PLACE AND SAFEGUARD ALL ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR ELEMENTS DAMAGED BY THE EXECUTION OF THE CONTRACT TO EQUAL OR LIKE NEW CONDITION.
   J. VERIFY POINTS OF CONNECTION, INCLUDING SIZES AND LOCATIONS, AND ALL OTHER REQUIRED OPERATING CRITERIA WITH EQUIPMENT MANUFACTURER.
   K. COORDINATE THE LOCATION AND TYPE OF ALL ACCESS PANELS REQUIRED FOR ACCESSING MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER BUILDING SYSTEMS WITH THE ARCHITECT.
   L. ENSURE ALL CONSTRUCTION REMAINS ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED BY THE INSPECTOR OF RECORD. FOR CONTINUOUS INSPECTION, TESTING, AND OBSERVATION REQUIREMENTS, REFER TO THE TESTING AND OBSERVATION PROGRAM.
   M. STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE AND COMPLY WITH APPLICABLE CODES AND REGULATIONS. CONTRACTOR'S SUBSTITUTION OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO OWNER.
6. DO NOT SCALE THE CONSTRUCTION DOCUMENTS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ALL ADDITIONAL REQUIRED DIMENSIONS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY THE ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM THE ARCHITECT, IT SHALL BE AT THE CONTRACTOR'S RISK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
7. WHERE WORK OR EQUIPMENT IS INDICATED "N.I.C." (NOT IN CONTRACT) ON THE DRAWINGS, SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION.
8. ALL PLAN DIMENSIONS SHOWN AT CENTER OF WALL REPRESENT CENTER LINE OF STUD OR STRUCTURAL ELEMENT UNLESS NOTED OTHERWISE.
9. ALL PLAN DIMENSIONS FOR MASONRY AND CONCRETE REPRESENT FACE OF MATERIAL AND OPENING UNLESS NOTED OTHERWISE.
10. ALL PLAN DIMENSIONS FOR STUD WALLS REPRESENT FACE OF STUD UNLESS NOTED OTHERWISE.
11. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW OF THE ARCHITECT UNLESS NOTED (±) OR "VERIFY". DIMENSIONS NOTED "HOLD" SHALL BE CONSIDERED AS ABSOLUTE AND USED FOR LAYOUT CONTROL UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.
12. ANY ITEM, CONDITION OR DIMENSION NOTED AS "FIELD VERIFY" OR "VERIFY IN FIELD" SHALL BE CONFIRMED ON SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT OF RECORD BEFORE INCORPORATING INTO THE WORK.
13. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF SLAB UNLESS NOTED "AFF" (ABOVE FINISH FLOOR)
14. "TYPICAL" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. WHEN A DETAIL OR NOTE IS IDENTIFIED AS "TYPICAL", THE CONTRACTOR SHALL APPLY THIS DETAIL OR NOTE TO EVERY LIKE CONDITION, WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.
15. PROVIDE WORK NOT SPECIFICALLY DETAILED OR SPECIFIED IN ACCORDANCE WITH DETAILS OR SIZES COVERING SIMILAR WORK.
16. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.
17. ABBREVIATIONS THROUGHOUT THE DOCUMENTS COMPLY WITH DOCUMENT ABBREVIATION LIST OR ARE THOSE IN COMMON USE. ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.
18. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY
19. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF PBK ARCHITECTS, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF PBK ARCHITECTS, INC.
20. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, PBK ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS PBK ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.
21. FIRE SAFETY DURING CONSTRUCTION & DEMOLITION:
   A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND CHAPTER 33 AND THE WRITTEN SITE SAFETY PLAN.
   B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTERS, SECTION 501.4 AND CHAPTER 33, SECTION 3311.
   C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATION IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3313.
   D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES.
   E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.
   F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.
   G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS IN ACCORDANCE WITH CHAPTER 33, SECTION 3305.5. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.
22. PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.
23. CUTTING, BORING, SAW-CUTTING OR DRILLING THROUGH STRUCTURAL ELEMENTS SHALL NOT COMMENCE UNTIL THE DRAWINGS HAVE BEEN SUMITTED, REVIEWED, AND APPROVED BY THE ARCHITECT OF RECORD.
24. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):

    THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING(S) WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED IT (THEY) IS (ARE) BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE PLANS.

    ENVELOPE MANDATORY MEASURES:

   A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.
   B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 720 AND 2603.
   C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
   D. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).
   E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 110.6.
   F. MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (NFRC) NATIONAL FENESTRATION RATING COUNCIL'S INTERIM U-VALUE RATING PROCEDURE.
   G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).
25. INSPECTOR OF RECORD REQUIREMENTS:
   A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTORS DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL BE AS STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.
   B. INSPECTOR SHALL BE CERTIFIED AS A CLASS 3 INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPACTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.
26. ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
27. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY TITLE 24, CCR, PART 1, SECTION 4-338.
28. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
29. DRINKING WATER SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS.
30. FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH REQUIREMENTS AND THE CALIFORNIA RETAIL FOOD FACILITIES LAW.
31. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
32. ALL SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING INDICATED ON THESE DRAWINGS WAS DESIGNED IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE ACCESSIBILITY STANDARDS OF THE CALIFORNIA BUILDING CODE (CBC) TITLE 24, PART 2, CHAPTER 11B OF THE CALIFORNIA CODE OF REGULATIONS (CCR). STRICT EXECUTION OF THE SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SHOULD A CONDITION PRESENT ITSELF THAT WOULD RESULT IN AN INSTALLATION OTHER THAN WHAT IS INDICATED IN THESE DRAWINGS, PBK ARCHITECTS INC. SHALL BE NOTIFIED IN WRITING AND A COMPLIANT RESOLUTION WILL BE FORMULATED.
33. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

RENDERINGS

GOOGLE EARTH IMAGE

GOVERNING AGENCIES

DIVISION OF THE STATE ARCHITECT
1515 CLAY ST # 1201,
OAKLAND, CA 94612
510-622-3101

PROJECT TEAM

OWNER
NAPA VALLEY UIFIED SCHOOL DISTRICT
2425 JEFFERSON ST,
NAPA, CA 94558
(707) 253-6828 PH

ARCHITECT
PBK ARCHITECTS, INC.
1110 IRON POINT ROAD, SUITE 200
FOLSOM, CA 95630
916-355-9922 PH

ELECTRICAL ENGINEER
SOLAR DESIGN ASSOCIATES, INC.
280 AYER ROAD
HARVARD, MA 01451
978-456-6855 PH
978-772-9715 FX

STRUCTURAL ENGINEER
KUBALA ENGINEERS:
2400 E KATELLA AVE,
ANAHEIM CA 92806
949-620-1891 PH

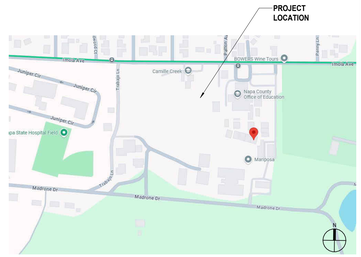
SCOPE OF WORK

SCOPE OF WORK INCLUDES ALL CONSTRUCTION AND SERVICES REQUIRED TO PROVIDE:

1. CONSTRUCTION OF A BATTERY ENERGY STORAGE SYSTEM (BESS) ENCLOSURE POWERED BY RENEWABLE SOLAR PANELS AT THE NAPA COUNTY OFFICE OF EDUCATION.

THE SYSTEM CONSISTS OF LITHIUM IRON PHOSPHATE, WITH EACH CELL HAVING 314 AH OF CAPACITY, AND EACH CABINET CONSISTING OF 250KWH OF CAPACITY.

VICINITY MAP



GOOGLE MAP IMAGE
CALIFORNIA CLIMATE ZONE OF THE PROJECT IS ZONE #2.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122376 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/08/2026

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

CAMILLE CREEK COMMUNITY SCHOOL - BATTERIES ENCLOSURE
NCOE
CAMILLE CREEK COMMUNITY SCHOOL
2097 IMOLA AVE. NAPA, CA 94559
PTN : 10260-21, DSA#01-122376

NAPA COUNTY OFFICE OF EDUCATION

G	H	J
D	E	F
A	B	C

KEY PLAN
PLAN NORTH
TRUE NORTH

LICENSED ARCHITECT
ANDREW JULES KUBALA
RENEWAL DATE
STATE OF CALIFORNIA

CLIENT	NCOE
PROJECT NUMBER	250118
DATE	05/21/2025
DRAWN BY: MS	CHKED BY: AH

REVISIONS

#	DESCRIPTION	DATE

COVER SHEET

G0.01

4/30/2026 1:57:42 PM

DRAWING CONVENTIONS

ENLARGED PLAN / DETAIL ENLARGEMENT

EXTERIOR ELEVATION

BUILDING SECTION

WALL SECTION

DETAIL SECTION

INTERIOR ELEVATIONS

ROOM NAME & NUMBER

MATCH LINE

FLOOR / DATUM LINE

GRID / COLUMN LINE

EXISTING GRID / COLUMN LINE

NEW PARTITION

PARTITION TYPE
REFER TO SHEET **A7.00** *FOR DEFINITION*

EXISTING PARTITION

DOOR DESIGNATION

WINDOW DESIGNATION

DIMENSIONS
NOTE: ALL DIMENSIONS TO FACE OF STUD / ℄ OF COLUMN UNLESS NOTED OTHERWISE

W.I. CABINET REFERENCE
WIDTH x DEPTH x HEIGHT

EQUIPMENT DESIGNATION

CONSTRUCTION KEYNOTE

DEMOLITION KEYNOTE

REVISION / REVISION NUMBER

NORTH ARROWS

REFERENCE NORTH

TRUE NORTH

SHEET NUMBERING

AB2.01

SEQUENCE (.01 - .99.....etc.)
SHEET TYPE
BUILDING ID
DISCIPLINE

DISCIPLINE
G - GENERAL
C - CIVIL
L - LANDSCAPE
D - DEMO
A - ARCHITECTURAL
S - STRUCTURAL
M - MECHANICAL
P - PLUMBING
FP - FIRE PROTECTION
E - ELECTRICAL
T - TECHNOLOGY
FA - FIRE ALARM
FS - FOOD SERVICE

SHEET TYPE
0 - GENERAL
1 - SITE & COMPOSITE
2 - FLOOR PLANS
3 - CEILING PLANS
4 - ROOF PLANS
5 - EXTERIOR ELEVATIONS, SECTIONS
6 - ENLARGED PLANS, INTERIOR ELEVATIONS
7 - INTERIOR ELEVATIONS
8 - ENLARGED SECTIONS & DETAILS
9 - SCHEDULES & DETAILS

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECT/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

Application No. 01-122376 File No. 28-19

☒ The drawings or sheets listed on the cover or index sheet (see asterisk *)
☐ This drawing, page of specifications / calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1. design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2. coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1, *(Title 24, Part 1, Section 4-317 (b))*

I find that:
☒ The drawings or sheets listed on the cover or index sheet
☐ This drawing or page
☒ is/are in general conformance and
☒ have been coordinated

Anthony Harris — Signature — 05/21/2025 Date
Architect or Engineer designated to be in general responsible charge
ANTHONY HARRIS Print Name — 05/21/2025 Date
C-31264 License Number — 9-30-2025 Expiration Date

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
A.H.J.	AUTHORITY HAVING JURISDICTION
AC	ASPHALT CONCRETE PAVEMENT
ACC	ACCESSIBLE, ACCESSIBILITY
ACP	ACOUSTICAL PANEL
ACT	ACOUSTICAL TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADA	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
ADAAG	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
ADJ	ADJACENT
ALT	ALTERNATE
ALUM	ALUMINUM
ASPH	ASPHALT
B.O.D.	BOTTOM OF DECK
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BUR	BUILT-UP ROOF
C	CHANNEL
C/L, CL	CENTERLINE
CAB, CABT	CABINET
CBC	CALIFORNIA BUILDING CODE / TITLE 24, CALIFORNIA CODE OF REGULATIONS
CFMF	COLD-FORMED METAL FRAMING
CFSF	COLD-FORMED STEEL FRAMING
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSIBLE
CONC	CONCRETE
COND	CONDITION
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET (ED)
CT	CERAMIC TILE
CTSK	COUNTER SINK
CW	COLD WATER
D	DRYER
D.A.	DISABLED ACCESS(IBILITY)
DF	DRINKING FOUNTAIN
DIA / Ø	DIAMETER
DIM	DIMENSION
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION (HEIGHT)
ELEC	ELECTRICAL
ELECT	ELECTRICAL
ELEV	ELEVATION (DRAWING)
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FIN	FINISH (ED)
FIXT	FIXTURE
FLR	FLOOR (ING)
FLUOR	FLUORESCENT
FRP	FIBER-REINFORCED PLASTIC
GA	GAUGE
GALV	GALVANIZED
GCMU	GLAZED CONCRETE MASONRY UNIT
GEN	GENERAL
GI	GALVANIZED IRON
GL	GLASS / GLAZING
GL	GLASS
GR	GRADE
GTP	GLAZED TILE PAVER
GYP	GYPSUM DRYWALL
HM	HOLLOW METAL FRAME
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
ID	INSIDE DIAMETER
INSUL	INSULATE (ED), (ION)
INT	INTERIOR
IPS	IRON PIPE SIZE
JT	JOINT
LA	LANDSCAPED AREA
LAM	LAMINATE (D)
LAV	LAVATORY
LT	LIGHT
LT WT	LIGHTWEIGHT
M.O.	MASONRY OPENING
MAS	MASONRY
MATL	MATERIAL (S)
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MEPT	MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY
MEZZ	MEZZANINE
MFR / MANUF	MANUFACTURE (R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MODULAR
MTL	METAL
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
NOM	NOMINAL
O.C.	ON CENTER (S)
O.C.E.W.	ON CENTER EACH WAY
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OPNG	OPENING
OPP	OPPOSITE
P. LAM / PLAM	PLASTIC LAMINATE
P.A.F.	POWER/POWDER-ACTUATED FASTENER
PCC	PORTLAND CEMENT CONCRETE PAVING
PL	PLATE
PLUMB	PLUMBING
POL	POLISHED
PR	PAIR
PREFIN	PRE-FINISHED
PT	POINT
PT	PRESSURE-TREATED
PTD	PAINTED
PWD / PLYWD	PLYWOOD
QT	QUARRY TILE
R / RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE / REF	REFER TO / REFERENCE / SEE
RECP	RECEPTACLE
REINF	REINFORCE (D), (ING)
REQ'D	REQUIRED
RES	RESILIENT
REV	REVISION (S), REVISED
SC	SEALED CONCRETE
SCHED	SCHEDULE
SD	SOAP DISPENSER
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SM	SHEET METAL
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPOSAL
SPC	SPECIAL COATING SYSTEM
SPEC	SPECIFICATION (S)
SQ	SQUARE
SS	STAINLESS STEEL
STL	STEEL
STR / STRUCT	STRUCTURAL
SUSP	SUSPENDED
SVF	SHEET VINYL FLOORING
T.O.	TOP OF
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL
TB	TACK BOARD
TEL	TELEPHONE
TERR	TERRAZZO
THK	THICK (NESS)
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
V.I.F.	VERIFY IN FIELD
VCT	VINYL COMPOSITION TILE
VENT	VENTILATING, VENTILATED
VER	VERIFY
VERT	VERTICAL
VWC	VINYL WALL COVERING
W.B.F.	WEATHER BARRIER FLASHING
W.R.B.	WATER-RESISTIVE BUILDING WRAP
W/	WITH
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WOVEN WIRE MESH
∠	ANGLE

DRAWING INDEX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122376 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/08/2026

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

CAMILLE CREEK COMMUNITY SCHOOL - BATTERIES ENCLOSURE
NCOE
CAMILLE CREEK COMMUNITY SCHOOL
2097 IMOLA AVE, NAPA, CA 94559
PTN : 10260-21 , DSA#01-122376

NAPA COUNTY OFFICE OF EDUCATION

G	H	J
D	E	F
A	B	C

KEY PLAN — PLAN NORTH — TRUE NORTH

LICENSED ARCHITECT
ANTHONY JULES HARRIS
C-31264
09-30-27
RENEWAL DATE
STATE OF CALIFORNIA

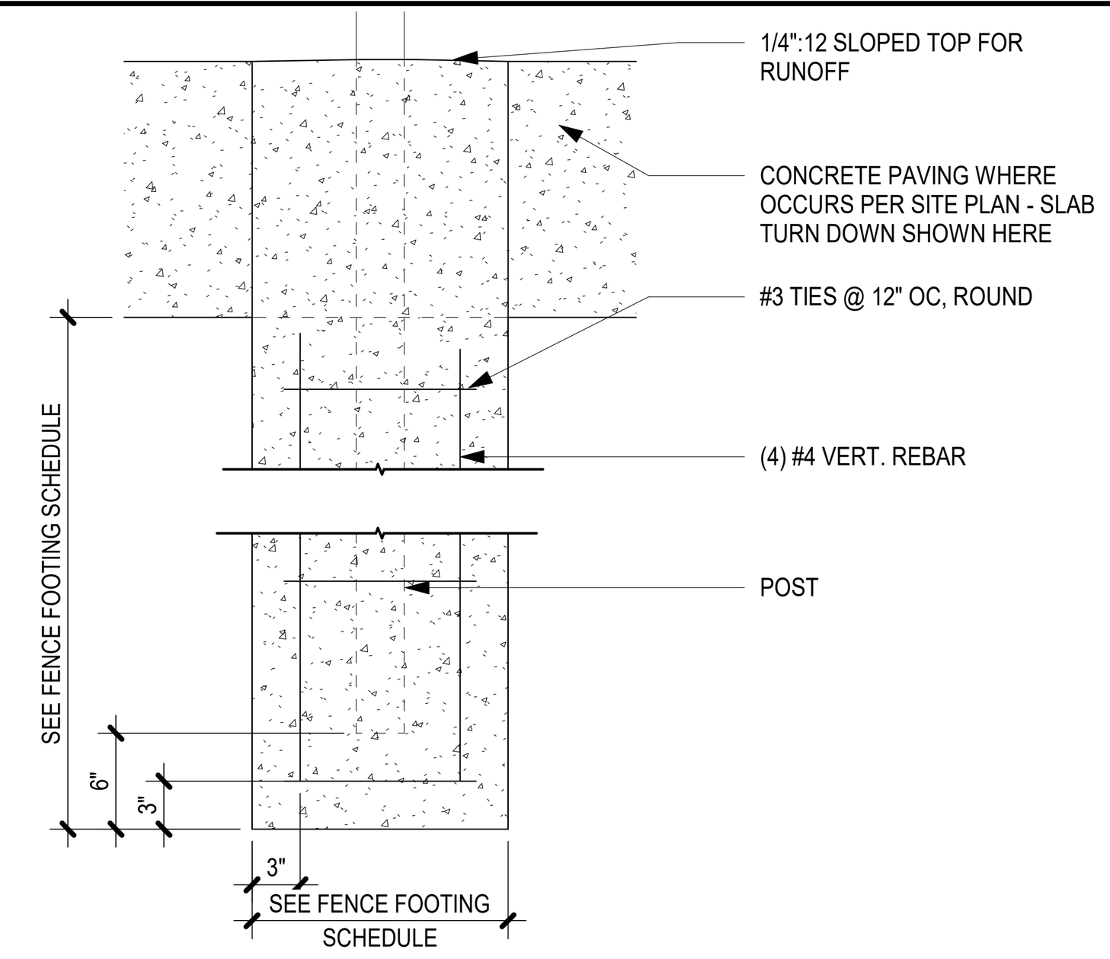
CLIENT
NCOE
PROJECT NUMBER
250118
DATE 05/21/2025
DRAWN BY: MS CHKED BY: AH

REVISIONS

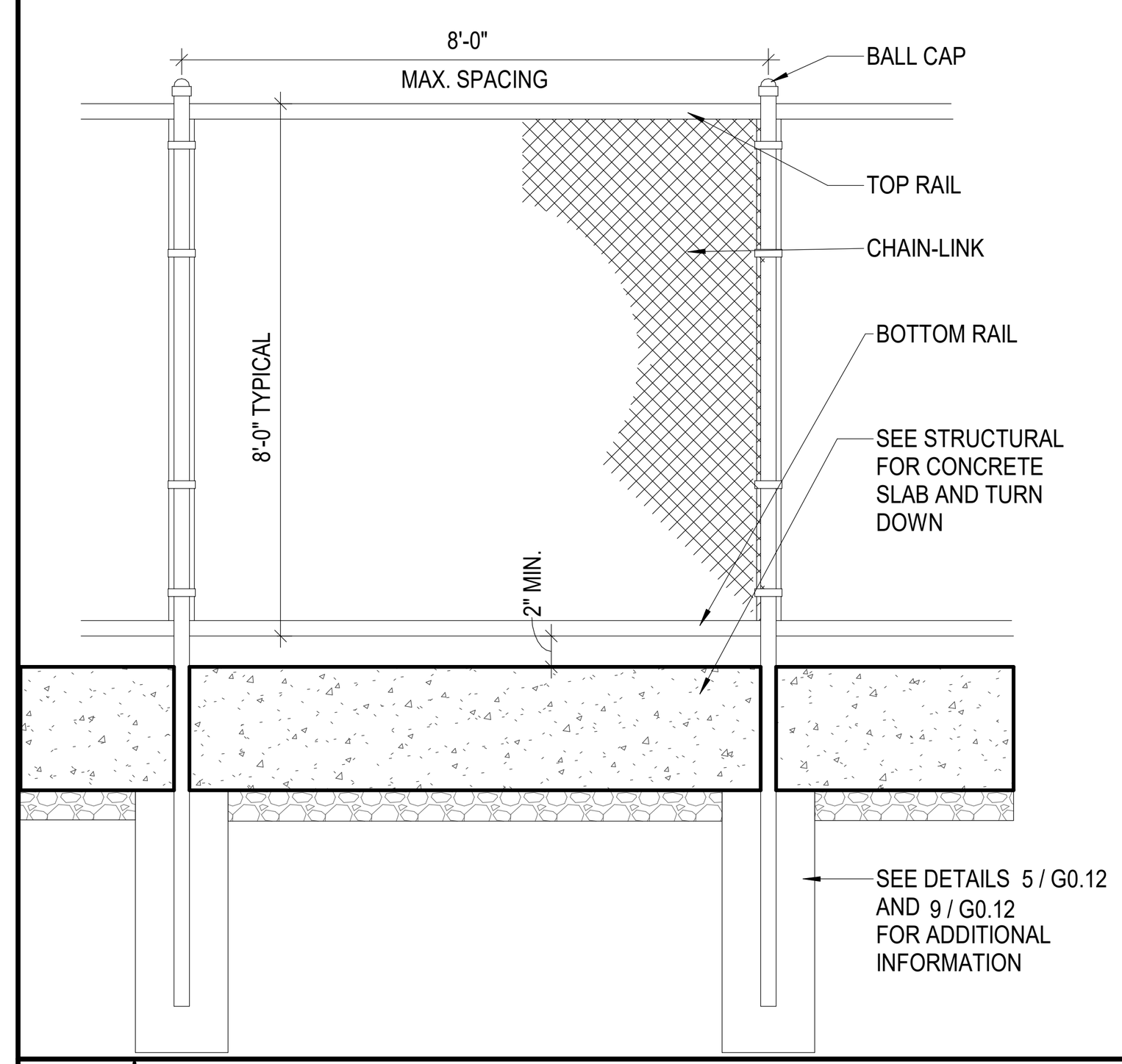
#	DESCRIPTION	DATE

SHEET INDEX & DRAWING CONVENTIONS

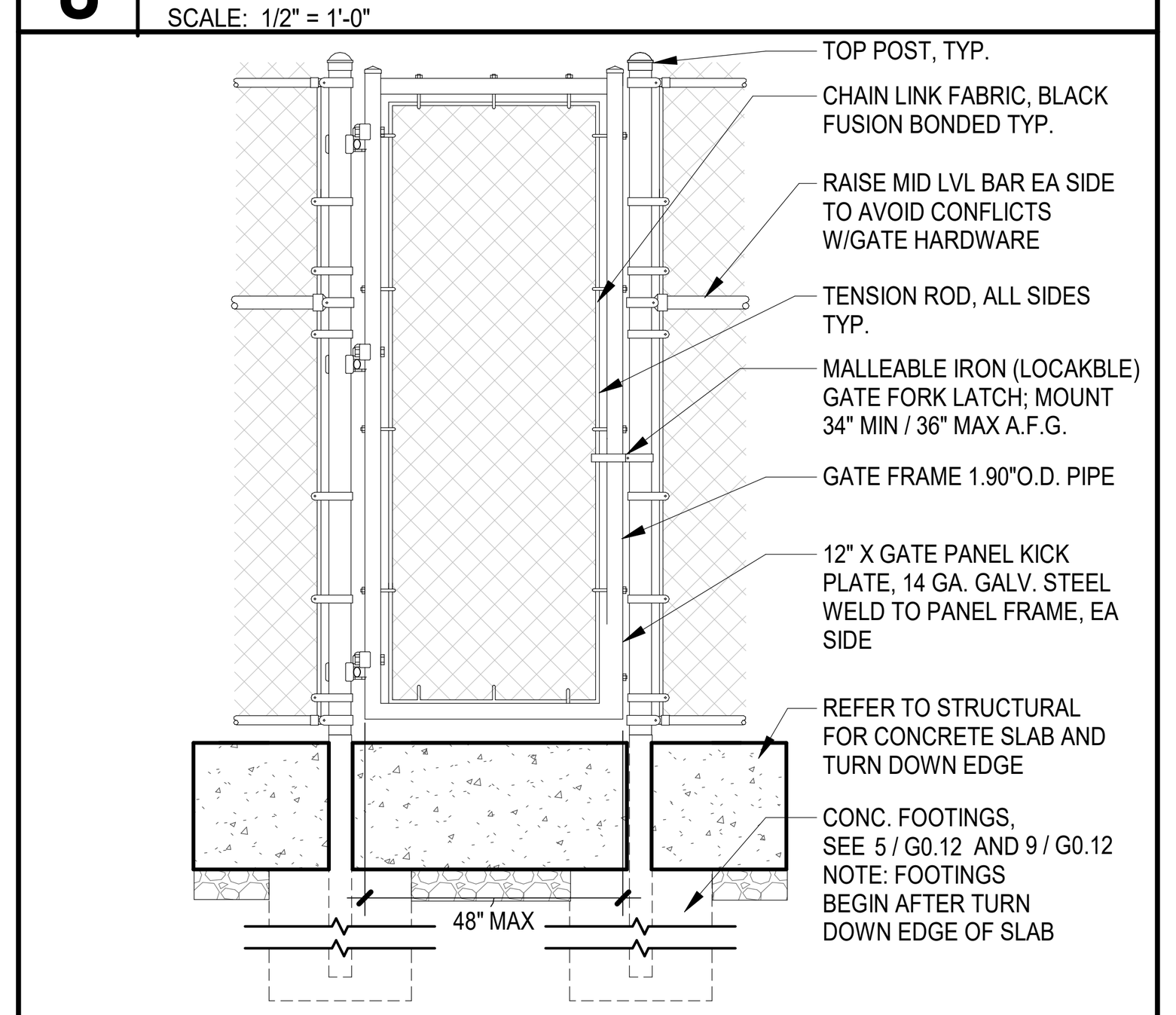
G0.02



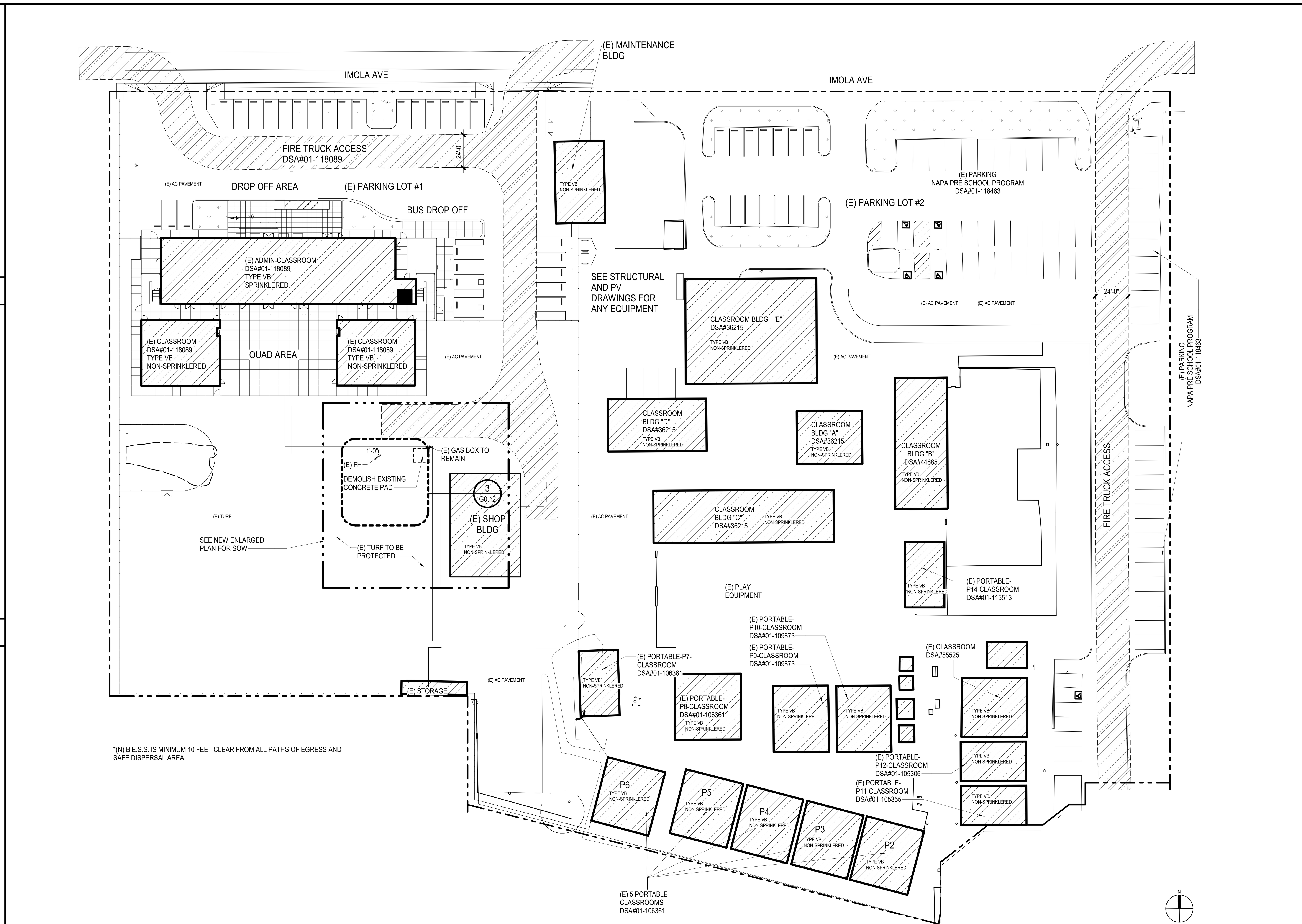
9 POST FOOTING REINFORCED
SCALE: 1" = 1'-0"



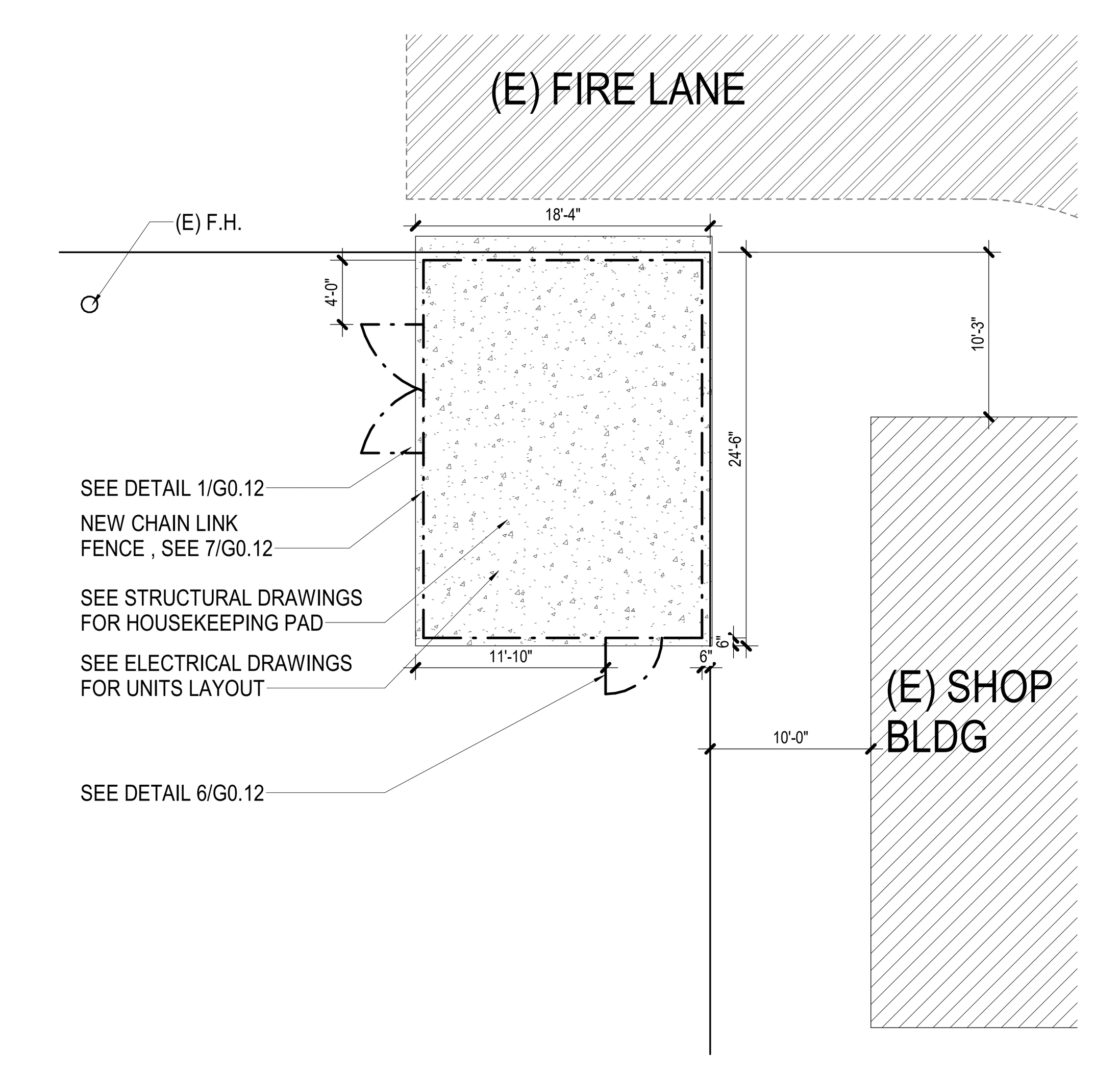
8 C.L. FENCE SECTION
SCALE: 1/2" = 1'-0"



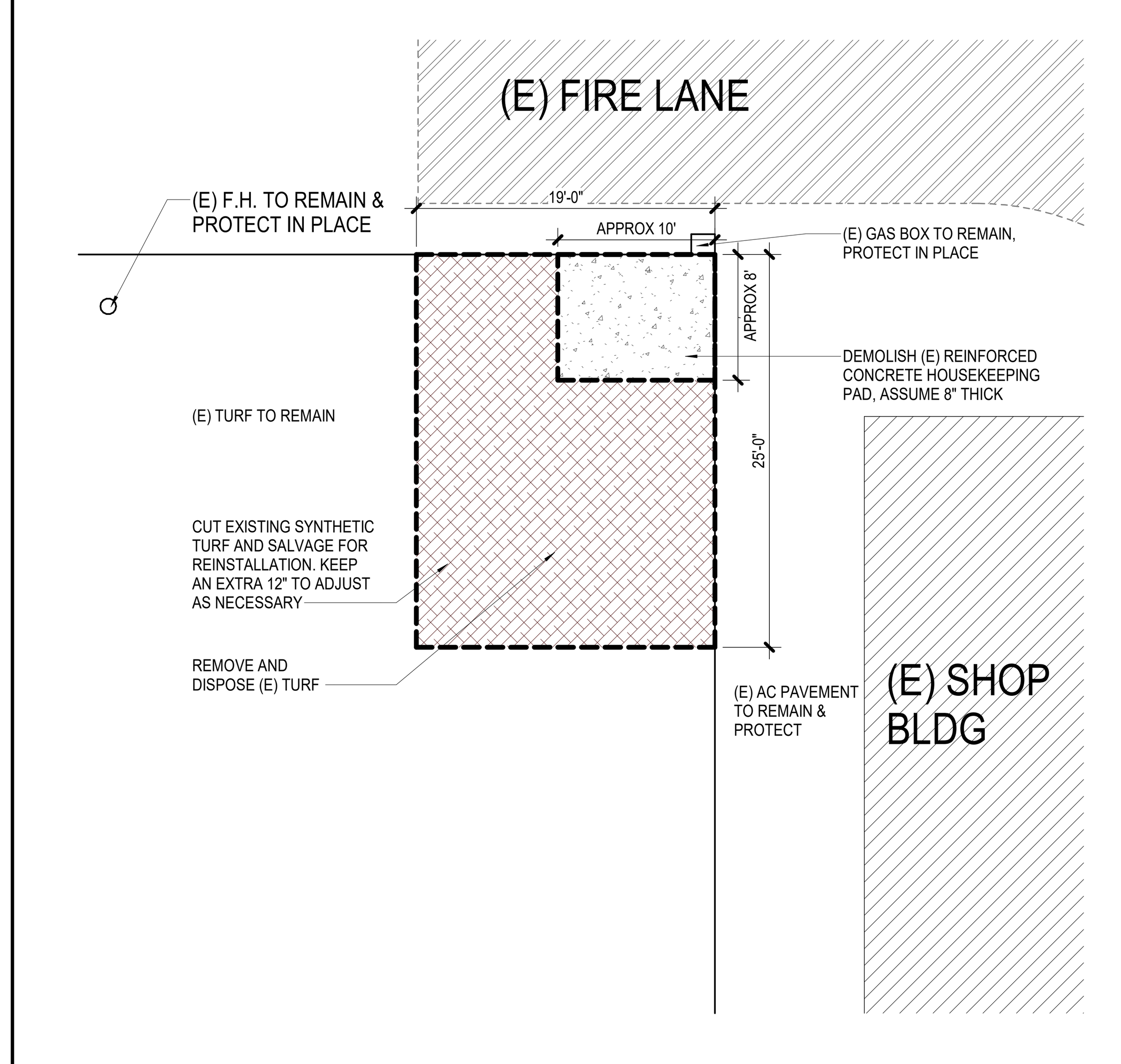
7 CHAIN LINK FENCE GATE - SINGLE
SCALE: 1/2" = 1'-0"



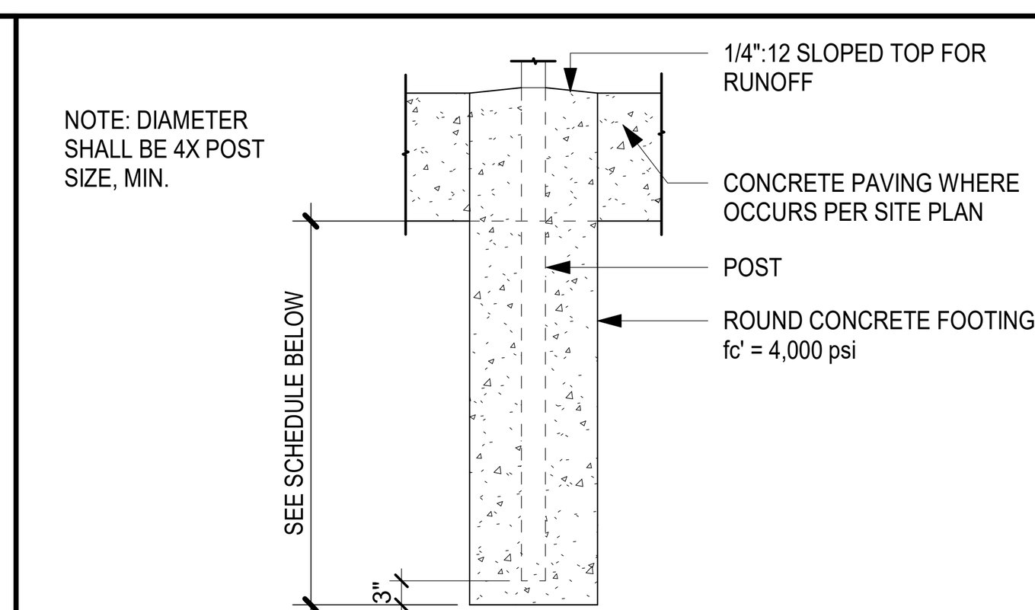
6 SITE PLAN
SCALE: 1" = 40'-0"



3 ENLARGED IMPROVEMENT SITE PLAN
SCALE: 1/8" = 1'-0"

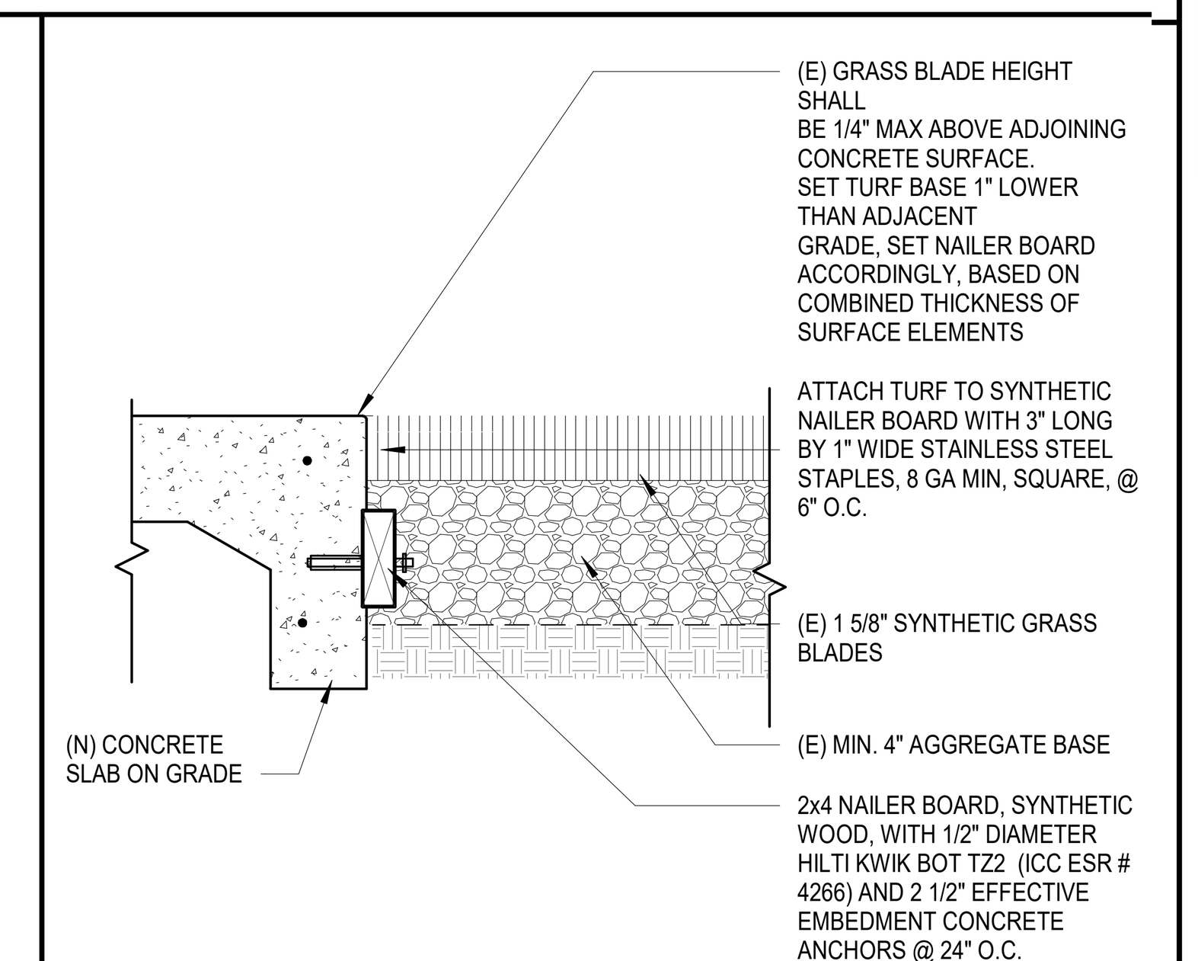


2 ENLARGED DEMOLITION SITE PLAN
SCALE: 1/8" = 1'-0"

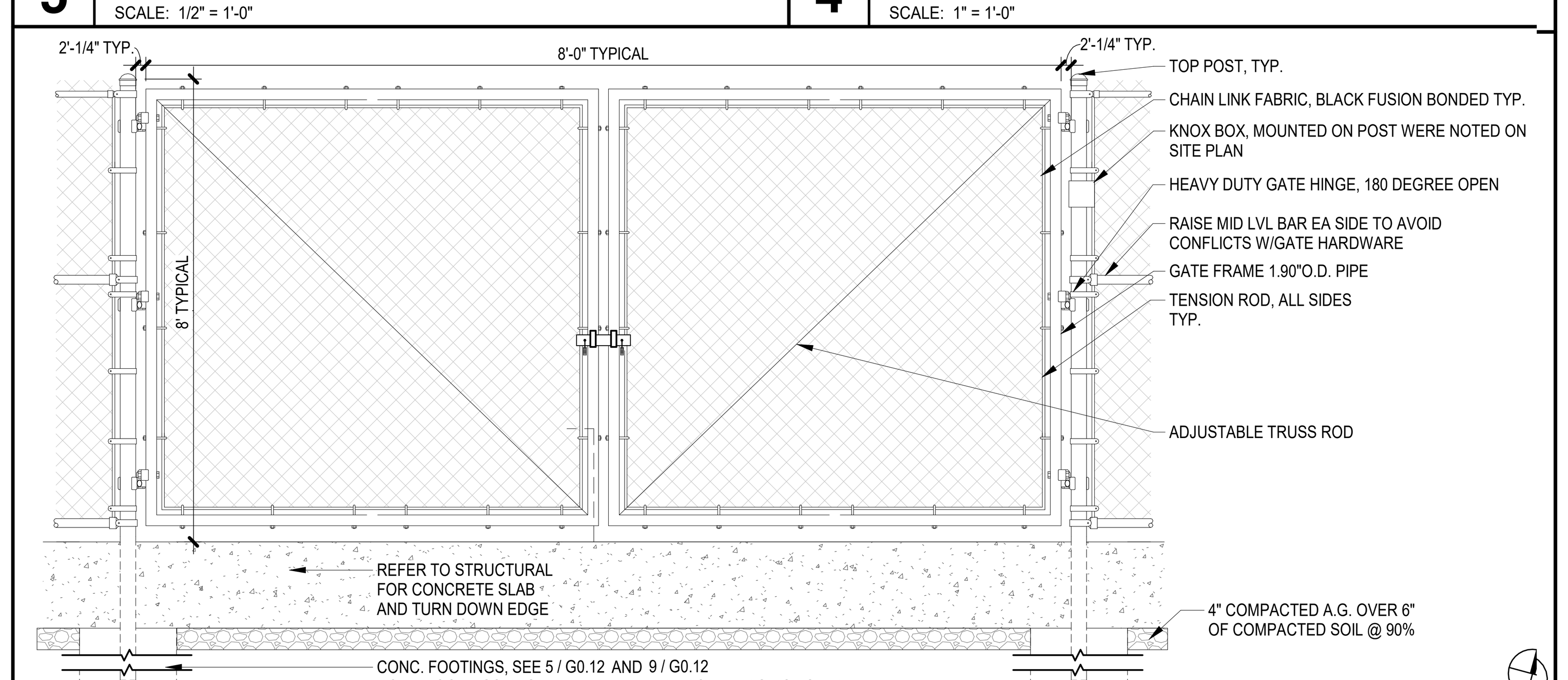


CHAIN LINK: 7'-0" HIGH	
TYPE	**POST FOOTING**
CORNER, END, AND PULL POSTS	39" x 14" DIA.
LINE POSTS	36" x 12" DIA.
GATE AND LATCH POSTS: 3'-0" TO 5'-0" WIDE	48" x 14" DIA.
GATE AND LATCH POSTS: 10'-0" WIDE	48" x 18" DIA.
GATE AND LATCH POSTS: 12'-0" WIDE	48" x 26" DIA.

5 FENCE FOOTING SCHEDULE
SCALE: 1/2" = 1'-0"



4 CURB AT TURF EDGE
SCALE: 1" = 1'-0"



1 CHAIN LINK FENCE GATE- DOUBLE
SCALE: 1/2" = 1'-0"

ACCESS SITE PLAN LEGEND

- PROPERTY LINE
- (E) FIRE HYDRANT
- (E) BUILDING NOT IN SCOPE
- (E) FIRE ACCESS LANE

SITE PLAN NOTES

1. REFER TO CIVIL DOCUMENTS
2. COORD. ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL DOCUMENTS
3. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1 % MINIMUM, 2 % MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO, SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
4. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5 % FOR A HORIZ. DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O
5. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS
6. VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCH. PRIOR TO POURING OF CONCRETE
7. PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
8. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
9. VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCH. PRIOR TO INSTALLATION OF SITE SIGNAGE
10. "PROPOSED PROJECT SCOPE DOES NOT REQUIRE PATH OF TRAVEL UPDATES PER 11B-202.4 EXCEPTION 7"

PARKING CALCULATION

(E) PARKING LOT 1:
STANDARD STALLS 29
ACCESSIBLE STALLS 2

TOTAL P-LOT 1 STALLS 31

(E) PARKING LOT 2:
STANDARD STALLS 77
ACCESSIBLE STALLS 5
TOTAL P-LOT 2 STALLS 82

TOTAL STALLS ON SITE 113

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION
School District/Owner: Camille Creek Community School
Project Name/School: Camille Creek Community School_Battery Enclosure
Project Address: 2097 Imola Ave, Napa, CA 94559

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☑
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☑		No ☐
	Refer to the following website for FHSZ locations: Fire Hazard Severity Zones in State Responsibility Area	Moderate ☐	High ☑	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 1 of 4 STATE OF CALIFORNIA

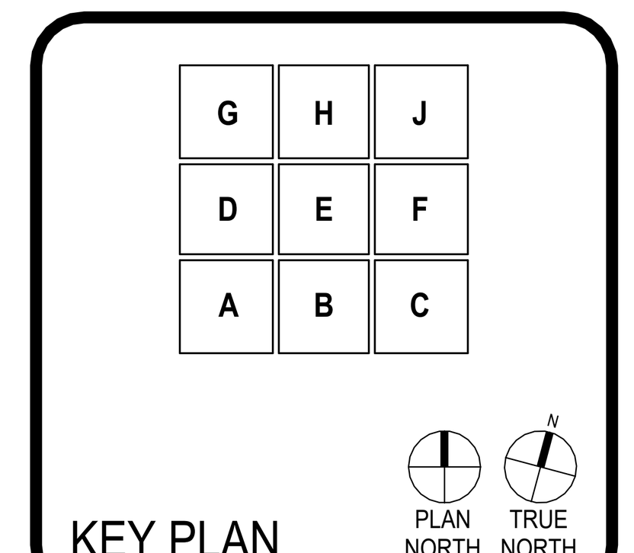
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122376 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/08/2026

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

CAMILLE CREEK COMMUNITY SCHOOL - BATTERIES ENCLOSURE
NCOE
CAMILLE CREEK COMMUNITY SCHOOL
2097 IMOLA AVE, NAPA, CA 94559
PTN : 10280-21, DSA#01-122376

NAPA COUNTY OFFICE OF EDUCATION



KEY PLAN

LICENSED ARCHITECT
JULES
C-31264
09-30-27
RENEWAL DATE
STATE OF CALIFORNIA

CLIENT
NCOE
PROJECT NUMBER
250118

DATE	05/21/2025
DRAWN BY: MS	CHKED BY: AH

REVISIONS

#	DESCRIPTION	DATE

SITE PLAN

G0.12

S0.1 - GENERAL NOTES

ABBREVIATIONS:

A
A.B. ANCHOR BOLT
ABV ABOVE
ACI AMERICAN CONCRETE INSTITUTE
ADD'L ADDITIONAL
ADJ ADJACENT
AFF ABOVE FINISHED FLOOR
AFS ABOVE FINISH SURFACE
AGGR AGGREGATE
AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI AMERICAN IRON AND STEEL INSTITUTE
ALT ALTERNATE
APPRX APPROXIMATELY
ARCH ARCHITECTURAL
ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM AMERICAN SOCIETY OF TESTING AND MATERIALS
AWS AMERICAN WELDING SOCIETY

B
BF BACK FACE
BFB BOTTOM OF FLANGE BRACE
BFF BELOW FINISH FLOOR
BLE BRACKET LEDGE ELEVATION
BLDG BUILDING
BLK BLOCK
BLKG BLOCKING
BM BEAM
BN BOUNDARY NAIL
BO BOTTOM OF
BOA BACK OF ANGLE
BOC BOTTOM OF CONCRETE
BOF BOTTOM OF FOOTING
BOS BOTTOM OF STEEL
BOT BOTTOM
BP BASE PLATE
BRCG BRACING
BRG BEARING
BRKT BRACKET
BLE BRICK LEDGE ELEVATION
BTWN BETWEEN

C
C CHANNEL
CANT CANTILEVER
CBC CALIFORNIA BUILDING CODE
CF CUBIC FOOT
CGS CENTROID OF TENDONS
CIP CAST IN PLACE
CJ CONTROL JOINT; CONSTRUCTION JOINT
CJP COMPLETE JOINT PENETRATION
CL CENTER LINE
CLG CEILING
CLR CLEAR
CMU CONCRETE MASONRY UNIT
COL COLUMN
COMP COMPRESSION
CONC CONCRETE
CONN CONNECTION
CONST CONSTRUCTION
CONT CONTINUOUS
CONTR CONTRACTOR
COR CORNER
CRSI CONCRETE REINFORCING STEEL INSTITUTE
CY CUBIC YARD

D
d PENNY NAIL
DBA DEFORMED BAR ANCHOR
DBL DOUBLE
DEPT DEPARTMENT
DET DETAIL
DF DOUGLAS FIR
DIA DIAMETER
DIAG DIAGONAL
DIM(S) DIMENSION(S)
DL DEAD LOAD
DN DOWN
DO DITTO (REPEAT)
DS DOWNSPOUT
DT DOUBLE TEE
DWG(S) DRAWING(S)
DWL(S) DOWEL(S)

E
EA EACH
EAO EDGE ANGLE OFFSET
EF EACH FACE
EJ EXPANSION JOINT
EL ELEVATION
ELEC ELECTRICAL
ENGR ENGINEER
EOD EDGE OF ROOF DECK
EOS EDGE OF FLOOR SLAB
EQ EQUAL
EQPT EQUIPMENT
EQUIV EQUIVALENT
EW EACHWAY
EXP EXPANSION
EXIST; (E) EXISTING
EXT EXTERIOR

F
FABR FABRICATOR
FD FLOOR DRAIN
FDN FOUNDATION
FF FINISHED FLOOR
FL FLOOR
FLG FLANGE
FN FIELD NAIL; FACE NAIL
FOC FACE OF CONCRETE
FOM FACE OF MASONRY
FOS FACE OF STUD
FOW FACE OF WALL
FP FULL PENETRATION; FIREPROOF
FRP FIBER REINFORCED POLYMER
FS FAR SIDE
FTG FOOTING

G
GA GAUGE
GALV GALVANIZED
GB GRADE BEAM
GC GENERAL CONTRACTOR
GLB GLU-LAM; GLUED LAMINATED BEAM
GR GRADE
GYP GYPSUM BOARD

H
HD HOLDOWN
HDR HEADER
HGR HANGER
HORIZ HORIZONTAL
HS HEADED STUD
HSA HEADED STUD ANCHOR
HSB HIGH STRENGTH BOLT
HT HEIGHT

I
IBC INTERNATIONAL BUILDING CODE
ID INSIDE DIAMETER
IN INCHES
INFO INFORMATION
INT INTERIOR
INTERM INTERMEDIATE
ISO ISOLATION
IT INVERTED TEE

J
JBE JOIST BEARING ELEVATION
JST JOIST
JT JOINT

K
KIP; K KIPS; 1000 POUNDS
KLF KIP PER LINEAR FOOT
KP KING POST
KSF KIP PER SQUARE FOOT
KSI KIP PER SQUARE INCH

L
L ANGLE OR LENGTH
LAT LATERAL
L.A.S.T. LOWEST ANTICIPATED SERVICE TEMPERATURE
LB POUND
LF LINEAL FOOT
LL LIVE LOAD
LLH LONG LEG HORIZONTAL
LLV LONG LEG VERTICAL
LOC LOCATION
LONG LONGITUDINAL
LSH LONG SIDE HORIZONTAL
LSV LONG SIDE VERTICAL
LWC LIGHT WEIGHT CONCRETE

M
MAX MAXIMUM
MB MACHINE BOLT
MC MOMENT CONNECTION
MECH MECHANICAL
MEP MECHANICAL-ELECTRICAL-PLUMBING
MEZZ MEZZANINE
MFR MANUFACTURER
MIN MINIMUM
MISC MISCELLANEOUS
MO MASONRY OPENING
MTL METAL
MTR MATERIAL

N
(N) NEW
NIC NOT IN CONTRACT
NO OR # NUMBER
NOM NOMINAL
NS NEAR SIDE
NTS NOT TO SCALE
NWC NORMAL WEIGHT CONCRETE

O
OC ON CENTER
OD OUTSIDE DIAMETER
OF OUTSIDE FACE
OH OPPOSITE HAND
OPNG OPENING
OPP OPPOSITE
ORTHO ORTHOGONAL
OWJ OPEN WEB JOIST

P
PC PILE CAP
PCC PRECAST CONCRETE
PCF POUNDS PER CUBIC FOOT
PCI PRECAST AND PRESTRESSED CONCRETE INSTITUTE
PE PROFESSIONAL ENGINEER
PEMB PRE-ENGINEERED METAL BUILDING
PENTR PENETRATION
PL PLATE
PLF POUNDS PER LINEAR FOOT
PLYWD PLYWOOD
PP PARTIAL PENETRATION
PREFAB PREFABRICATED
PRELIM PRELIMINARY
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PT PRESSURE TREATED

Q
QTY QUANTITY

R
R RADIUS
RAF RAISED ACCESS FLOOR
RBS REDUCED BEAM SECTION
RCP REINFORCED CONCRETE PIPE
RD ROOF DRAIN
REF REFERENCE
REINF REINFORCEMENT
REQD REQUIRED
REV REVERSE
RF ROOF
RND ROUND
RO ROUGH OPENING
RTU ROOF TOP UNIT

S
SAD SEE ARCHITECTURAL DRAWINGS
SC SLIP-CRITICAL
SCD SEE CIVIL DRAWINGS
SCH SCHEDULE(D)
SEP SEPARATION
SF SQUARE FOOT
SHT SHEET
SIM SIMILAR
SKW SKEW(ED)
SOG SLAB ON GRADE
SPA SPACE
SPECS SPECIFICATIONS
SPECD SPECIFIED
SQ SQUARE
SS STAINLESS STEEL
ST SNUG TIGHTENED
STAGG STAGGER(ED)
STD STANDARD
STIFF STIFFENER
STIR STIRRUPS
STL STEEL
STRUCT STRUCTURAL
SUSP SUSPENDED
SW SIDEWALK
SYM SYMMETRICAL

T
T TENSION
T&B TOP AND BOTTOM
T&G TONGUE AND GROOVE
TEMP TEMPORARY
THK THICKNESS
TN TOE NAIL
TO TOP OF
TOB TOP OF BEAM
TOC TOP OF CONCRETE
TOP TOP OF PIER ELEVATION
TOS TOP OF STEEL
TOSC TOP OF STRUCTURAL CONCRETE
TOW TOP OF WALL
TRANS TRANSVERSE
TSG TAPERED STEEL GIRDER
TYP TYPICAL

U
UNO UNLESS NOTED OTHERWISE
UTIL UTILITY

V
V SHEAR
VERT VERTICAL
VIF VERIFY IN FIELD

W
W WIDTH
W/ WITH
W/O WITHOUT
WB WIND BRACE
WD WOOD
WL WIND LOAD
WP WORK POINT
WPFG WATERPROOFING
WS WATERSTOP
WT WEIGHT
WWF WELDED WIRE FABRIC

X;Y;Z
X-STG EXTRA STRONG
XX-STG DOUBLE EXTRA STRONG

STRUCTURAL OBSERVATIONS:

1. THE OWNER SHALL EMPLOY THE ENGINEER OF RECORD REGISTERED/LICENSED IN THE STATE OF CALIFORNIA WHO IS RESPONSIBLE FOR THE STRUCTURAL DESIGN, TO DO STRUCTURAL OBSERVATION.
2. THE STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH CBC SECTION 1704A.6. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE PROJECT INSPECTOR, DEPUTY INSPECTOR, SPECIAL INSPECTOR OR CITY INSPECTOR.
3. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE CONSTRUCTION THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER. CONSTRUCTION STAGES TO BE OBSERVED:
   - A. FOUNDATIONS: AFTER PLACEMENT OF STEEL REINFORCEMENT PRIOR TO FINAL POUR
   - B. LEVEL 2 FRAMING : AFTER PLACEMENT OF ALL STEEL MEMBERS.
   - C. LOW ROOF FRAMING : AFTER PLACEMENT OF ALL STEEL MEMBERS.
   - D. HIGH ROOF FRAMING : AFTER PLACEMENT OF ALL STEEL MEMBERS.
   - E. PUNCH WALK: FINAL OBSERVATIONS OF COMPLETED STRUCTURE
4. STRUCTURAL OBSERVATION: ALL STRUCTURAL OBSERVATIONS SHALL BE DOCUMENTED USING THE OBSERVATION REPORT FORM, AND SHALL BE STAMPED AND SIGNED BY THE STRUCTURAL OBSERVER OF RECORD.
5. OBSERVED DEFICIENCIES: ANY OBSERVED DEFICIENCIES SHALL BE DESCRIBED ON THE FORM; THE OBSERVER SHALL ALSO INDICATE WHETHER A REOBSERVATION IS REQUIRED TO VERIFY CORRECTIVE ACTIONS HAVE BEEN PROPERLY TAKEN OR THAT THE CORRECTIVE ACTIONS ARE DEEMED VERIFIABLE BY THE SPECIAL INSPECTOR OR CITY INSPECTOR PRIOR TO INSPECTION APPROVAL.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL:
   PROVIDE STRUCTURAL STEEL COMPLYING WITH THE FOLLOWING ASTM STANDARD SPECIFICATIONS, UNLESS NOTED OTHERWISE:

A. ROUND HSS	ASTM A500, GRADE C (Fy=46ksi, Fu=62ksi)
B. PIPES	ASTM A53, GRADE B (Fy=35ksi, Fu=60ksi)
C. ANGLES, CHANNELS, PLATES AND BARS	ASTM A36 (Fy=36ksi, Fu=58ksi), U.N.O.
D. ANCHOR RODS	ASTM F1554, GRADE 36, U.N.O.
E. BOLTS AT OTHER APPLICATIONS	ASTM A307
F. THREADED RODS	ASTM A36
G. NUTS	ASTM A563
H. WASHERS	ASTM F436

2. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL TO SEOR FOR REVIEW PRIOR TO FABRICATION. ALL STEEL FABRICATION AND ERECTION SHALL COMPLY WITH HTE LATEST EDITION OF THE AISC.
3. DIAMETER OF BOLT HOLE SHALL BE 1/16" LARGER THAN THE BOLT'S DIAMETER, UNLESS NOTED OTHERWISE. WHERE OVERSIZED HOLES OCCUR, PROVIDE 3" SQUARE PLATE WASHERS UNDER NUTS UNLESS OTHERWISE NOTED. THICKNESS OF PLATE WASHER SHALL BE 0.375 TIMES THE DIAMETER OF ANCHOR BOLT.
4. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING STEEL ON THE JOB SITE FROM CORROSION.
5. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL MEET THE MINIMUM SPECIFICATIONS IN THE AISC CODE OF STANDARD PRACTICE CHAPTER 10 UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
6. HOT-DIP GALVANIZE ALL STEEL EXPOSED TO WEATHER, UNLESS OTHERWISE NOTED.

CAST-IN-PLACE CONCRETE:

1. ALL CONCRETE MATERIALS, CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE ACI CODE AND PROJECT SPECIFICATIONS.
2. RETAIN AN APPROVED TESTING LABORATORY TO PREPARE CONCRETE MIX DESIGN ACCORDING TO GOVERNING CODE AND THE CONSTRUCTION DOCUMENTS. ALL CONCRETE MIXES SHALL BE STAMPED AND SIGNED BY A LICENSED CALIFORNIA CIVIL ENGINEER AND SUBMITTED TO THE SEOR FOR REVIEW AND APPROVAL PRIOR TO CONCRETE PLACEMENT.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 4,000 PSI AT 28 DAYS AS FOLLOWS, UNLESS OTHERWISE NOTED.
4. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318, LATEST ADOPTED EDITION, AND PROJECT SPECIFICATIONS.
5. PORTLAND CEMENT SHALL BE TYPE II UNLESS OTHERWISE NOTED.
6. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS N OR F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 15% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT.
7. MAXIMUM RATIO OF WATER TO CEMENTITIOUS MATERIALS, BY WEIGHT, SHALL BE 0.45 UNLESS OTHERWISE NOTED. USE MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
8. SLUMP SHALL CONFORM TO ACI 301, CHAPTER 4.
9. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) HARD ROCK TYPE UNLESS OTHERWISE NOTED AS LIGHTWEIGHT CONCRETE (115 PCF MAX.).
10. AGGREGATES IN NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (HARDROCK). AGGREGATES IN LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.
11. MAXIMUM AGGREGATES SIZE SHALL CONFORM TO THE FOLLOWINGS.

A. FOOTING AND GRADE BEAMS	1"
B. SLAB ON GRADE	3/4"
C. ELEVATED SLAB, BEAMS, FRAMED COLUMNS	3/8"
D. REMAINDER	3/4"

12. ALL CONSTRUCTION JOINTS SHALL BE KEYED, ROUGHENED TO 1/4" AMPLITUDE, THOROUGHLY CLEANED, AND WETTED WITH NO STANDING WATER.
13. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATION OF ALL CONSTRUCTION JOINTS TO THE SEOR FOR REVIEW AT LEAST 14 DAYS PRIOR TO PLACING OF CONCRETE. JOINTS SHALL BE LOCATED TO MINIMIZE EFFECTS OF SHRINKAGE AS WELL AS PLACED AT POINTS OF LOW STRESS.
14. CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:	
* #6 THROUGH #18 REBAR	2"
* #5 REBAR, W31 OR D31 WIRE, AND SMALLER	1 1/2"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
* SLABS, WALLS AND JOISTS (#11 REBAR AND SMALLER)	3/4"
* BEAMS AND COLUMNS	1 1/2"
D. SLABS ON GRADE	MID-DEPTH

15. PROVIDE 3/4" CHAMFER AT EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS UNLESS OTHERWISE NOTED.
16. ALL NEW CONCRETE AND NON-SHRINK GROUT PLACED AGAINST HARDENED CONCRETE SHALL BE PREPARED PER THE FOLLOWING PROCEDURE:
    - A. ROUGHEN HARDEND SURFACE TO AN AMPLITUDE OF 1/4" WITH BUSH HAMMER, SAND BLASTING, OR OTHER APPROVED METHOD.
    - B. CLEAN SURFACES OF DUST AND DEBRIS USING CLEAN COMPRESSED AIR AND WATER.
    - C. SURFACE SHALL BE WETTED AND STANDING WATER REMOVED.
    - D. REFER TO OTHER NOTES FOR DUST CONTROL DURING CONSTRUCTION
17. CURING COMPOUND USED ON CONCRETE SHALL BE REVIEWED BY THE SEOR.
18. BONDING AGENT SHALL BE CHEMREX CONCRESIVE LIQUID LPL, OR SIKA ARMATEC 110 EPOCEM, OR APPROVED EQUAL AND SHALL BE APPLIED FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS.
19. ALL CRACKS WIDER THAN 1/64" IN NEW CONCRETE APPEARING WITHIN 6 MONTHS OF CONCRETE PLACEMENT SHALL BE REPAIRED USING EPOXY ADHESIVE INJECTION BY THE CONTRACTOR AT NO COST TO THE OWNER.
20. PIPES, DUCTS OR CONDUITS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS. SLEEVES SHALL BE PROVIDED FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS.
21. PRIOR TO POURING FOUNDATION CONCRETE, CONTRACTOR SHALL PERFORM AND SUBMIT FOR REVIEW A FINAL SURVEY OF ALL ANCHOR BOLTS FOR STRUCTURAL STEEL FRAMING TO DEMONSTRATE ANCHOR BOLTS HAVE BEEN PROPERLY PLACED AND NO COLUMN BASE PLATE MODIFICATIONS WILL BE REQUIRED.

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE NEW DEFORMED STEEL BARS CONFORMING TO ASTM A615-22, GRADE 60 UNLESS OTHERWISE NOTED. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706-22a W/ SUPPLEMENTARY REQUIREMENT S1, GRADE 60.
2. WELDED WIRE FABRICS (W.W.F), DEFORMED WIRE STIRRUPS AND SPIRAL REINFORCING SHALL CONFORM TO ASTM A1064, FY=65 KSI.
3. BARS SHALL BE CLEAN OF RUST, MUD, OIL, GREASE OR OTHER COATING MATERIALS LIKELY TO REDUCE BOND CAPACITY.
4. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) MANUAL OF STANDARD PRACTICE.
5. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITION SHOWN ON THE DRAWINGS.
6. SHOP DRAWINGS OF REINFORCING STEEL PLACEMENT SHALL BE PREPARED BY THE CONTRACTOR IN ACCORDANCE WITH ACI 315. SHOP DRAWINGS SHALL INCLUDE BAR SIZES, QUANTITIES, SPACING, CLEARANCES, SPLICE LOCATIONS, LAP LENGTH, AND CONCRETE COVERAGE AND SUBMITTED TO SEOR FOR REVIEW.
7. ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE.
8. ALL WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4 AND SHALL BE PERFORMED BY CERTIFIED WELDERS USING AWS A5.5 E80XX LOW HYDROGEN MOISTURE RESISTANT ELECTRODES UNLESS OTHERWISE NOTED.
9. ALL REINFORCEMENT BENDING SHALL BE PERFORMED COLD. BARS CAN ONLY BENT ONCE.
10. MECHANICAL SPLICES (COUPLERS) AND MECHANICAL REINFORCING HEADED END ANCHORS (TERMINATORS) MAY BE USED AT CONTRACTOR'S OPTION. MECHANICAL DEVICES SHALL HAVE A CURRENT ICC REPORT AND SUBMITTED TO SEOR FOR APPROVAL. SPECIAL INSPECTIONS DURING CONSTRUCTION IS REQUIRED.
11. ALL REINFORCING STEEL INTERRUPTED BY STRUCTURAL STEEL SHALL TERMINATE WITHIN 1" OF STEEL SURFACE WITH A 90° STANDARD HOOK UNLESS OTHERWISE NOTED.

SOILS AND FOUNDATION:

1. SOIL BEARING CAPACITIES AND RECOMMENDATIONS:
   - A. ALLOWABLE SOIL BEARING PRESSURES
     SPREAD FOOTINGS - 1,500 PSF
     CONTINUOUS FOOTINGS - 1,500 PSF

     THESE VALUES ARE ALLOWED TO BE INCREASED BY 1/3 FOR SHORT TERM SEISMIC AND WIND EFFECTS.
   - B. LATERAL RESISTANCE:
     PASSIVE PRESSURE = 100 PCF EQUIVALENT FLUID PRESSURE
2. THE CONTRACTOR SHALL INFORM THE ARCHITECT AND ENGINEER OF LOCATION OF EXISTING UTILITIES AND COMMENCE WORK ONLY AFTER WRITTEN APPROVAL FROM THE ARCHITECT.
3. ALL FOUNDATION EXCAVATION, FILLING, BACK FILLING, AND BUILDING PADS SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING NECESSARY TO SUPPORT CUT AND/OR FILL SECTIONS DURING EXCAVATION, AND FOR FORMING AND PLACEMENT OF CONCRETE.
4. BACK FILL AGAINST WALLS SHALL BE PLACED EVENLY AGAINST BOTH SIDES OF WALLS UNTIL THE LOWER GRADE IS REACHED.
5. ALL RETAINING WALLS HAVE BEEN DESIGNED AS A FREE DRAINING CONDITION. DESIGN FOR THE DRAINAGE SYSTEM SHALL BE BY OTHERS AND SHALL MEET THE REQUIREMENTS OF THE SOILS REPORT.
6. ANY DISTURBED SOIL SHOULD BE COMPACTED TO AT LEAST 90% OF THE MAXIMUM DENSITY BY ASTM TEST METHOD D1557.
7. CONTROLLED LOW-STRENGTH MATERIAL (CLSM) SHALL COMPLY WITH THE REQUIREMENTS OF CBC 2022, SECTION 1803A.5.9.
8. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.

GENERAL:

1. ALL WORK SHALL CONFORM TO THE 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), ANY REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THE LATEST EDITION, INCLUDING SUPPLEMENTS, OF SPECIFICATIONS, CODES AND STANDARDS NOTED IN THE CONTRACT DOCUMENTS.
2. TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR NOTED OTHERWISE.
3. GENERAL CONTRACTORS SHALL VERIFY ALL GRADES, DIMENSIONS AND CONDITIONS AT THE JOB SITE WITH COMPLETE SET OF DRAWINGS PRIOR TO BIDDING AND COMMENCING CONSTRUCTION. THE ARCHITECT OR ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
4. REFER TO PROJECT SPECIFICATIONS FOR PROJECT REQUIREMENTS. SPECIFICATIONS GOVERN OVER THE DRAWINGS IN CASE OF CONFLICTS. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
5. PERFORM CONSTRUCTION AND WORKMANSHIP INCLUDING ALL MATERIALS IN COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS, AND THE CALIFORNIA BUILDING CODE.
6. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMAN AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT TO BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT AND SHORING FOR THE STRUCTURE.
7. IN NO CASE SHALL DIMENSIONS BE SCALED FROM DRAWINGS AND/OR DETAILS. ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECTS AND THE ENGINEERS ATTENTION FOR CLARIFICATION PRIOR TO PROCEEDING. ANY WORK INSTALLED PRIOR TO AND/OR IN CONFLICT WITH SUCH CLARIFICATION SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL SUPERVISE, DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. THE SUPPORTING SERVICES BY THE STRUCTURAL ENGINEER, WHETHER PERFORMED PRIOR TO, DURING, OR AFTER CONSTRUCTION, ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND PROJECT SPECIFICATIONS; BUT THEY DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA AND BE RESPONSIBLE TO SECURE THE WORK AREA DURING CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
10. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PREVENT DUST AND CONSTRUCTION DEBRIS FROM CONTAMINATING THE WORK AREA, INCLUDING, BUT NOT LIMITED TO, DAILY CLEANUP OF THE CONSTRUCTION AREA.
11. CUTTING, BORING, SAW-CUTTING OR DRILLING THROUGH THE NEW STRUCTURAL MEMBERS OTHER THAN THOSE DETAILED ON STRUCTURAL DRAWINGS SHALL NOT BE DONE WITHOUT THE STRUCTURAL ENGINEER'S AND DSA APPROVAL.
12. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION AND COORDINATION WITH OTHER DISCIPLINES DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL WORK, INCLUDING THAT OF ALL SUB-TRADES.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER INDICATED ON CONTRACT DRAWINGS OR NOT, AND TO PROTECT THEM FROM DAMAGE. REPAIR AND REPLACEMENT OF SAID WORK SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
14. A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. A MINIMUM CLASS 1 INSPECTOR IS REQUIRED.
15. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
16. SUBMIT SHOP DRAWINGS AS REQUIRED PER PROJECT SPECIFICATIONS. SHOP DRAWINGS MUST BE SUBMITTED WITH A STAMP FROM THE GENERAL CONTRACTOR INDICATING THEIR CONFORMANCE TO THE CONSTRUCTION DOCUMENTS.
17. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

DESIGN CRITERIA:

DESIGN CONFORMS TO THE CALIFORNIA BUILDING CODE (CBC), 2022 EDITION

1. WIND ANALYSIS:
   BASIC WIND SPEED V =103 MPH
   RISK CATEGORY IV
   WIND EXPOSURE CATEGORY C
   INTERNAL PRESSURE COEFFICIENT, GC_{pi} = ±0.18
   COMPONENTS AND CLADDING MIN. DESIGN PRESSURE = 35 PSF
   (DESIGN PRESSURE VALUES VARY BASED ON LOCATION AND TRIBUTARY AREA OF COMPONENTS. A DETAILED ANALYTICS SHALL BE SUBMITTED TO SEOR BY MANUFACTURER FOR REVIEW AND APPROVAL)
2. SEISMIC ANALYSIS:

   EQUIVALENT LATERAL FORCE PROCEDURE
   SITE CLASS D (DEFAULT)
   SEISMIC DESIGN CATEGORY D
   RISK CATEGORY IV
   REDUNDANCY FACTOR = 1.0
   SEISMIC DESIGN FACTORS:
   I_e = 1.5
   S_S = 1.756 g
   S_1 = 0.66 g
   F_a = 1.2
   F_V = 1.7
   S_{DS} = 1.405 g
   S_{D1} = 0748 g

4. FOR UNIT SIZE AND WEIGHT REFER TO PV DRAWINGS SHEET PV801.

STRUCTURAL SHEET INDEX:

SHEET NUMBER:	SHEET NAME:
S0.1	GENERAL NOTES
S1.0	SITE PLAN
S4.0	TYPICAL DETAILS
Total Structural Sheets: 3	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122376 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/08/2026

PBK

ARCHITECT PBK Architects, Inc.
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CAMILLE CREEK COMMUNITY SCHOOL - BATTERIES ENCLOSURE
NCOE
CAMILLE CREEK COMMUNITY SCHOOL
2097 IMOLA AVE., NAPA, CA 94559
PTN: 10280-21, DSA#01-122376

NAPA COUNTY OFFICE OF EDUCATION

KEY PLAN

G	H	J
D	E	F
A	B	C

PLAN NORTH TRUE NORTH

CLIENT	NCOE
PROJECT NUMBER	250118
DATE	05/04/2026
DRAWN BY: DM	CHKED BY:

REVISIONS

#	DESCRIPTION	DATE

GENERAL NOTES

S0.1

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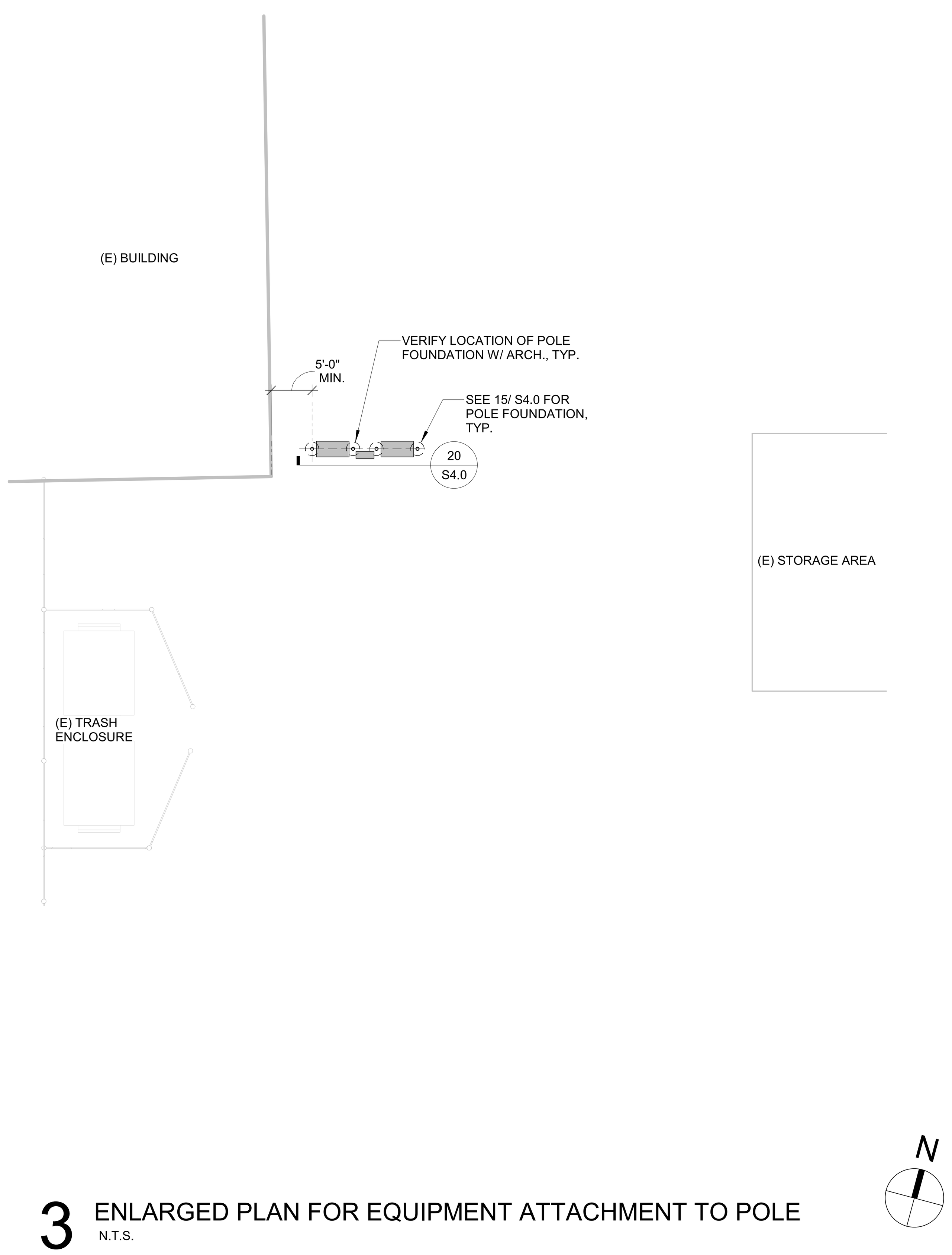
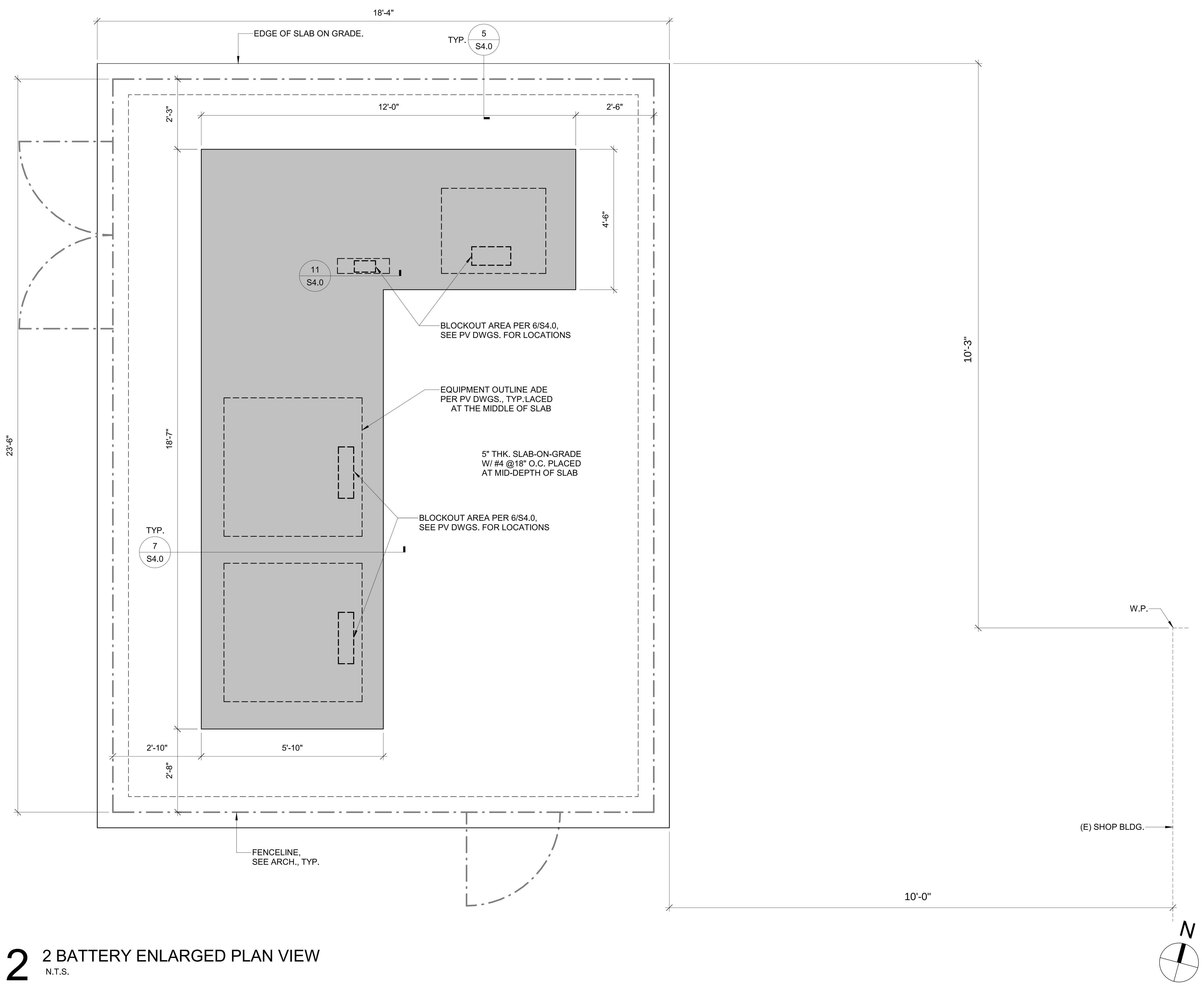
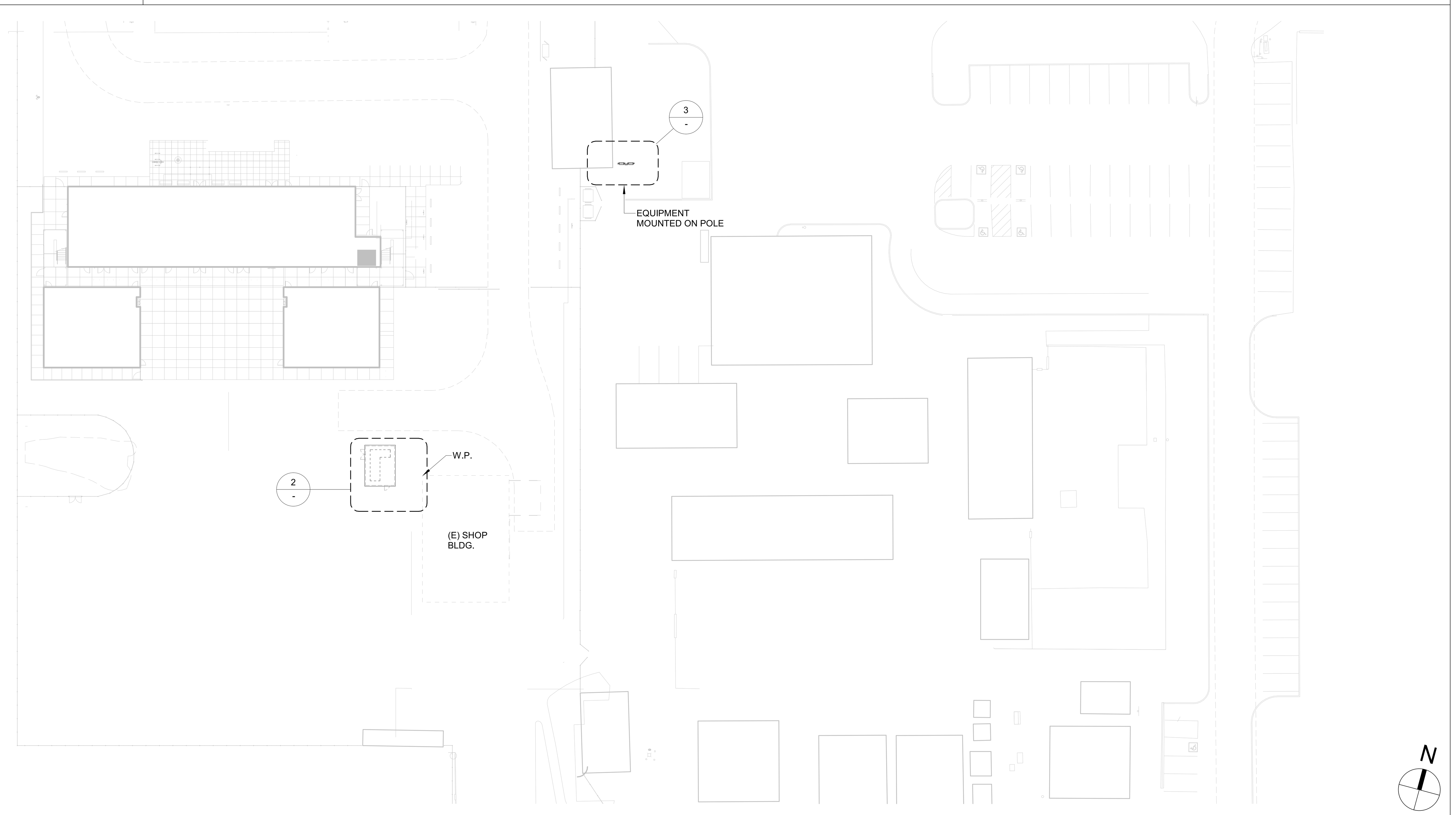


3 ENLARGED PLAN FOR EQUIPMENT ATTACHMENT TO POLE
N.T.S.



2 2 BATTERY ENLARGED PLAN VIEW
N.T.S.



1 2 BATTERY ENCLOSURE SITE PLAN
1" = 40'-0"

PLAN NOTES

1. SEE SHEET S0.1 FOR GENERAL NOTES.
2. CONTRACTOR SHALL VERIFY ALL FRAMING DIMENSIONS AGAINST ARCHITECTURAL DRAWINGS AND NOTIFY THE ARCHITECT AND PROJECT ENGINEER OF ANY DISCREPANCIES BEFORE STARTING THE WORK.
3. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL DIMENSIONS, HEIGHTS, CURBS, EXTERIOR SLABS, DRAINS, SUMPS, SWALES, RAILING, GUARDPOST, FINISH FLOOR ELEVATIONS, ETC.
4. THE SOILS ENGINEER OF RECORD SHALL ISSUE A FINAL REPORT STATING THE COMPLETED PAD, FOUNDATION, FINISH GRADING, DRAINAGE AND ASSOCIATED SITE WORK CONFORMS TO THE APPROVED PLANS, SPECIFICATIONS AND GEOTECHNICAL REPORT.

LEGEND

INDICATES CONCRETE PAD FOR ELECTRICAL EQUIPMENT, SEE 7/S4.0. SEE ELECTRICAL DRAWINGS FOR CONCRETE PAD AND UNITS LAYOUT.

INDICATES FENCE LINE. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS.

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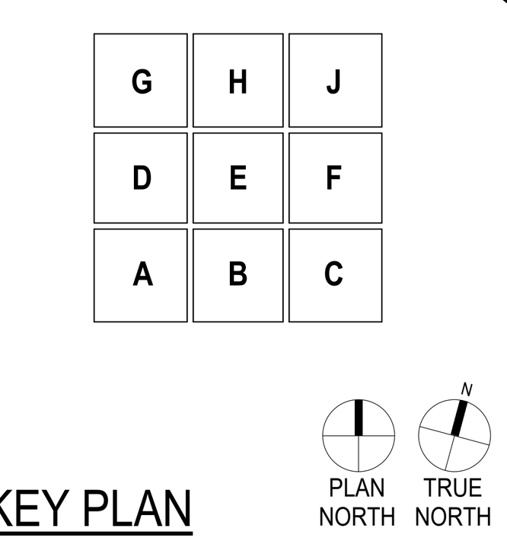

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
MAJID KANI
No 5072
EXP. 6-30-27
STRUCTURAL
STATE OF CALIFORNIA

CLIENT
NCOE
PROJECT NUMBER
250118
DATE 05/04/2026
DRAWN BY: DM CHKED BY:

REVISIONS

#	DESCRIPTION	DATE

SITE PLAN

S1.0

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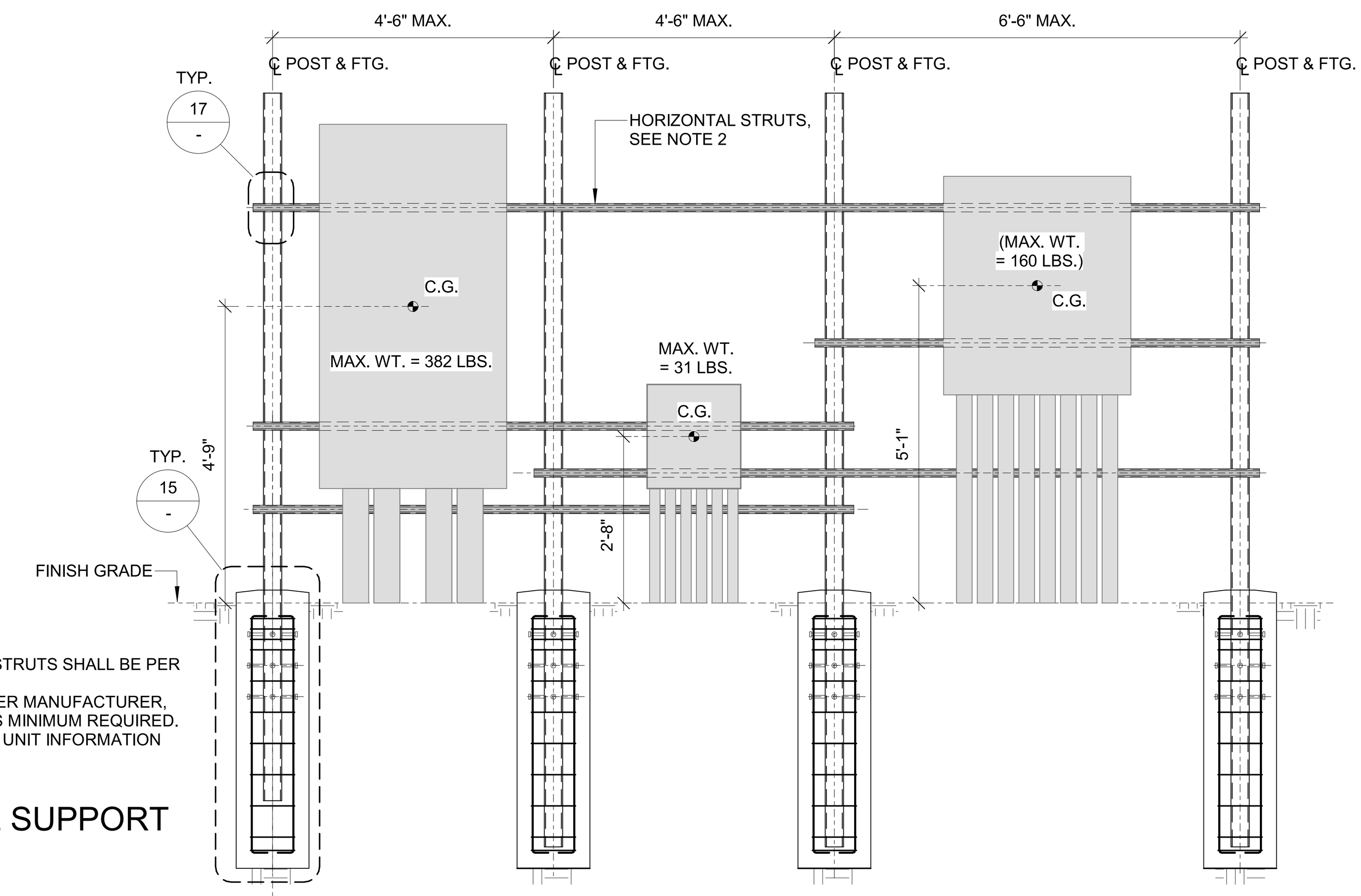
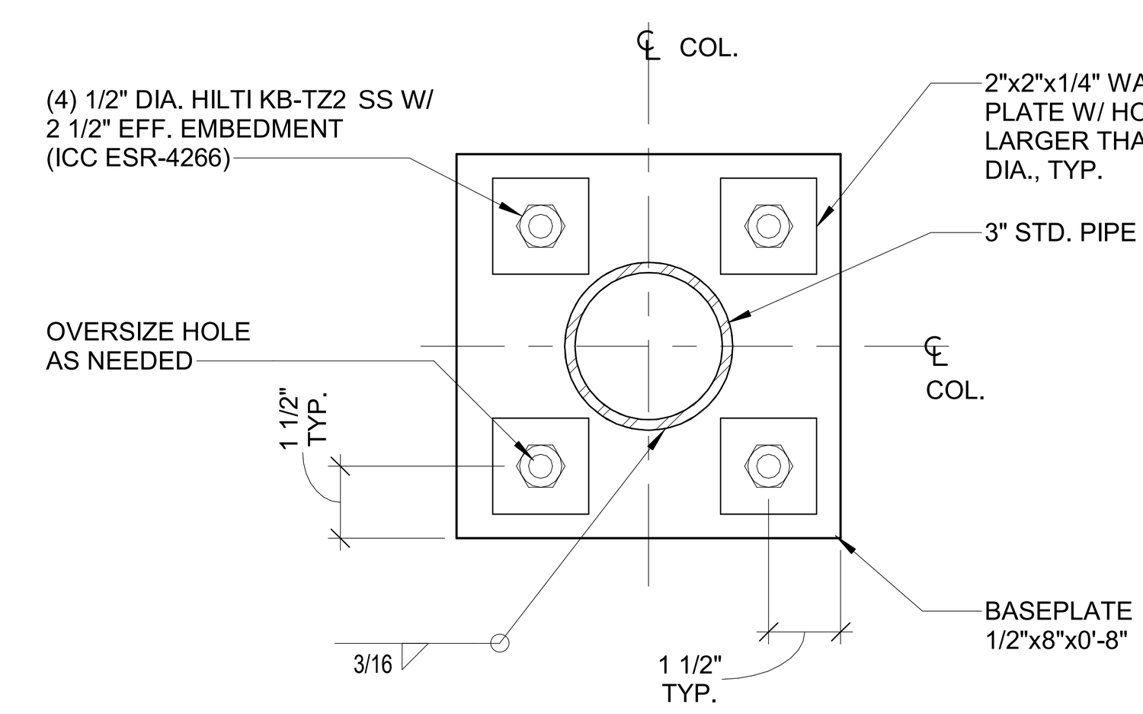
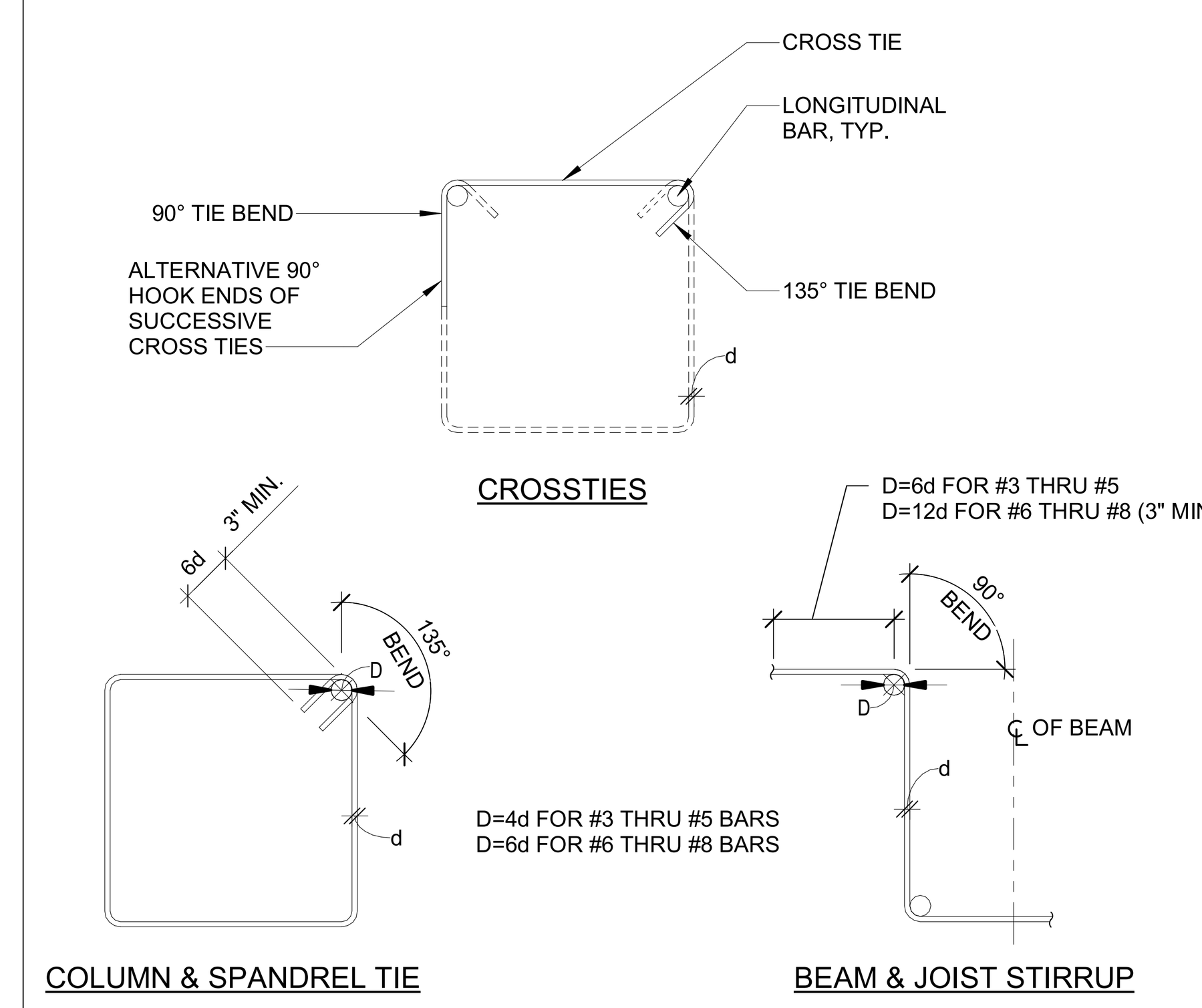


NOTES:
1. UNIT ATTACHMENT UNISTRUTS SHALL BE PER MANUFACTURER.
2. HORIZONTAL STRUTS PER MANUFACTURER, USE UNISTRUT P1000 AS MINIMUM REQUIRED.
3. SEE PV DRAWINGS FOR UNIT INFORMATION AND DIMENSIONS.

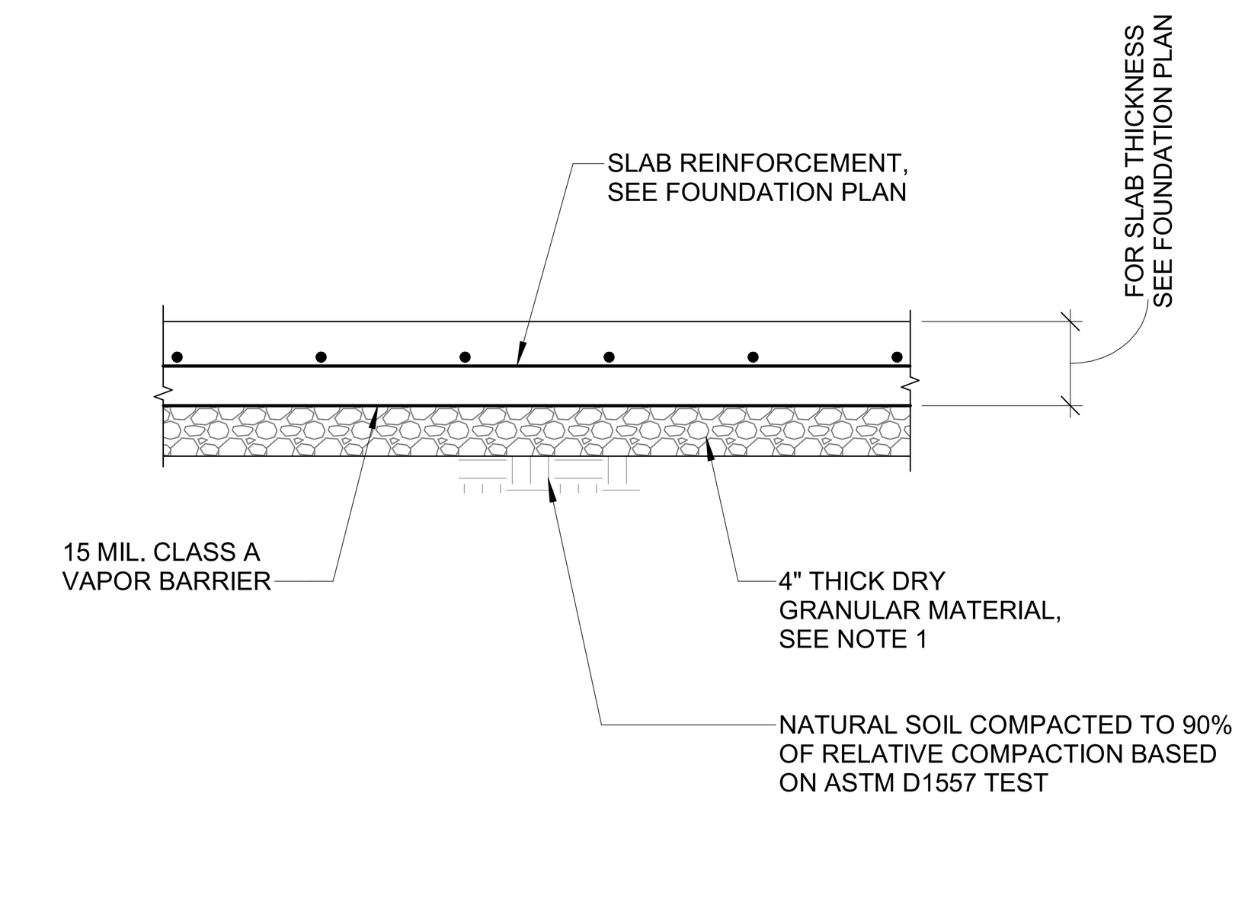
20 ELECTRICAL PANEL SUPPORT
N.T.S.



12 BASEPLATE DETAIL
N.T.S.

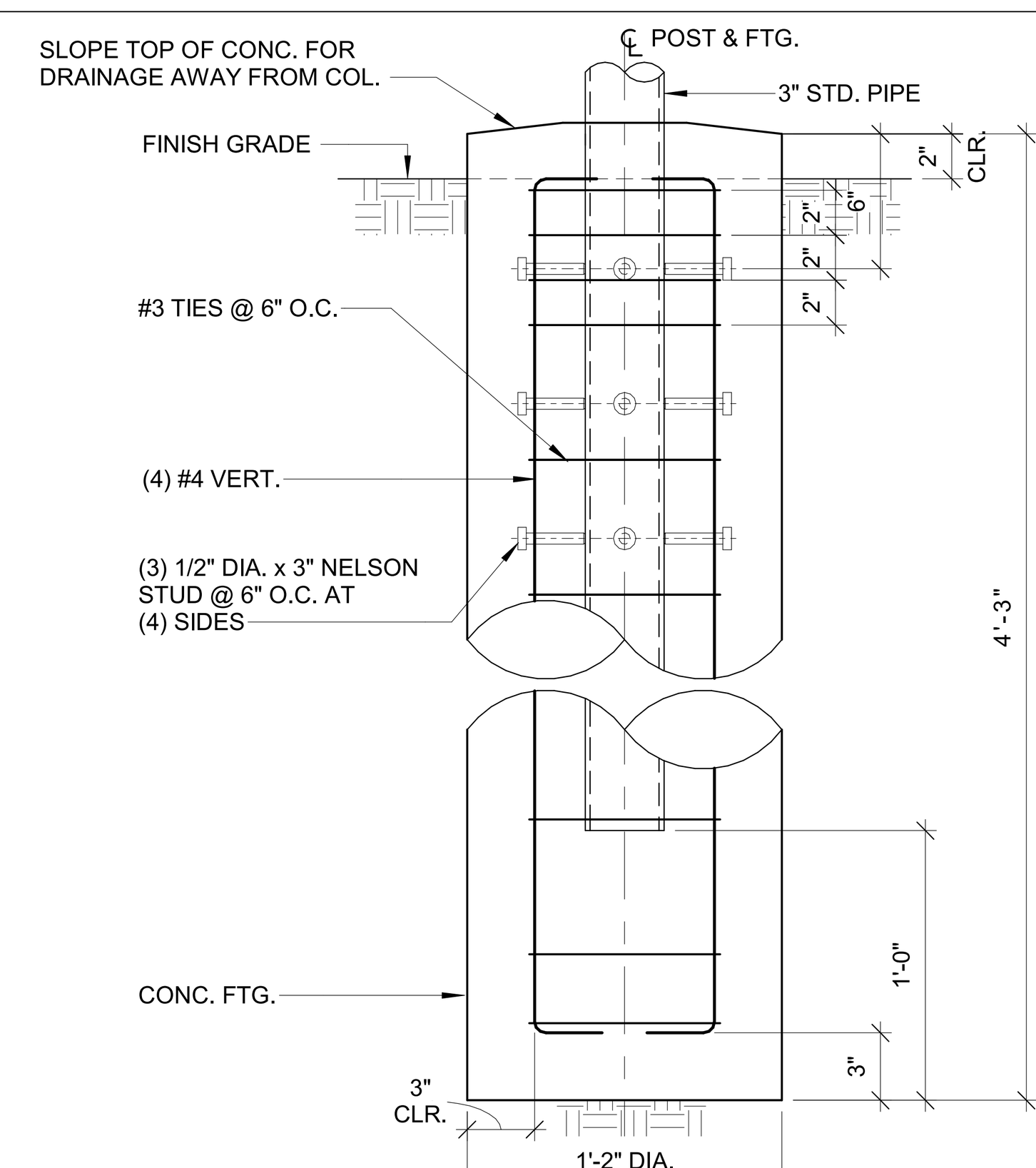


8 TYP. BENDS FOR HOOKS, TIES, & CROSSTIES
N.T.S.



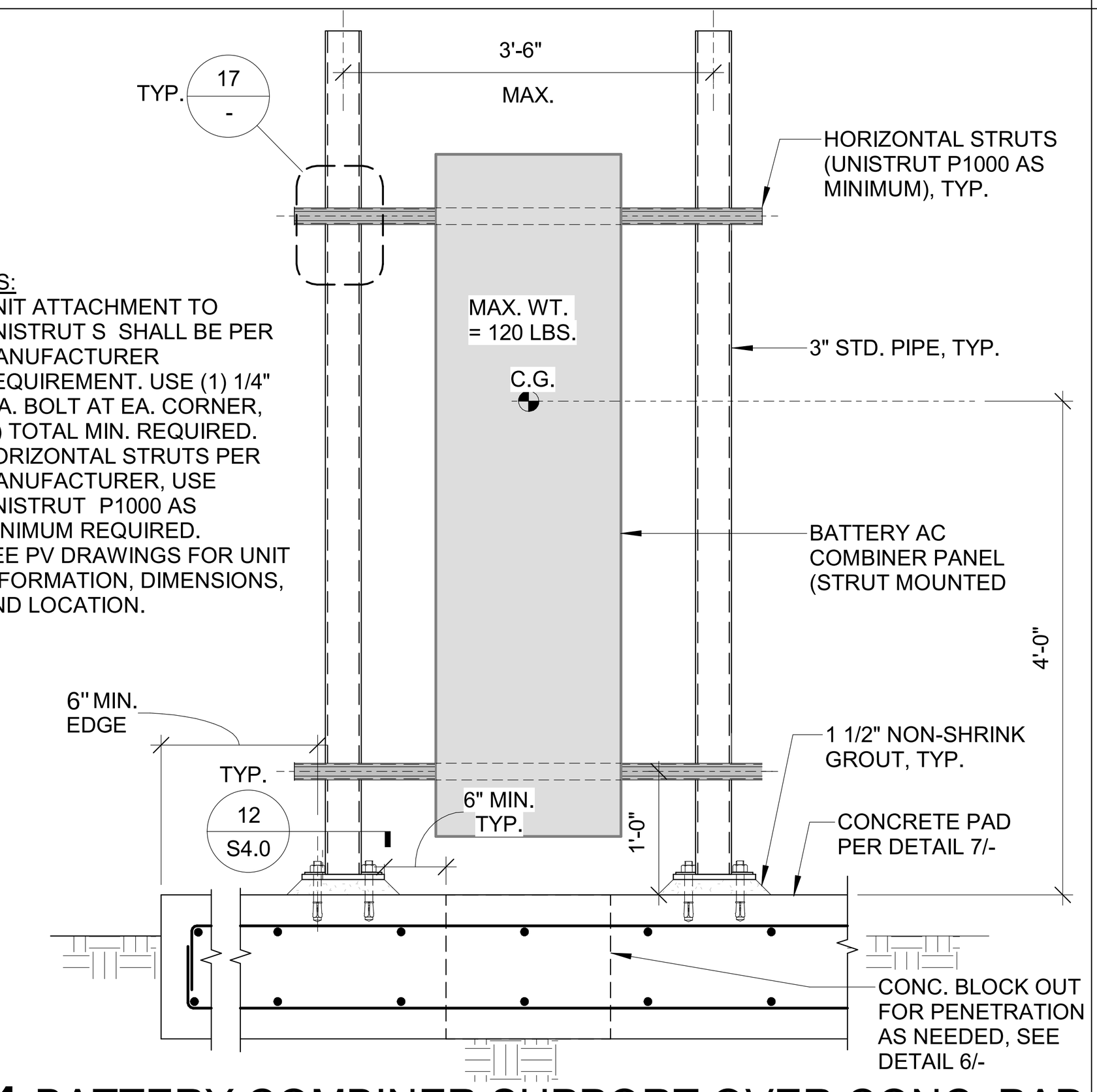
NOTES:
1. THE FILL MATERIAL SHALL BE CLEAN, FINE GRADED WITH AT LEAST 10 TO 30% OF PARTICLES PASSING A NO. 100 SIEVE BUT NOT CONTAMINATED WITH CLAY, SILT OR ORGANIC MATERIAL.

4 S.O.G. W/ SUBGRADE & VAPOR BARRIER
N.T.S.

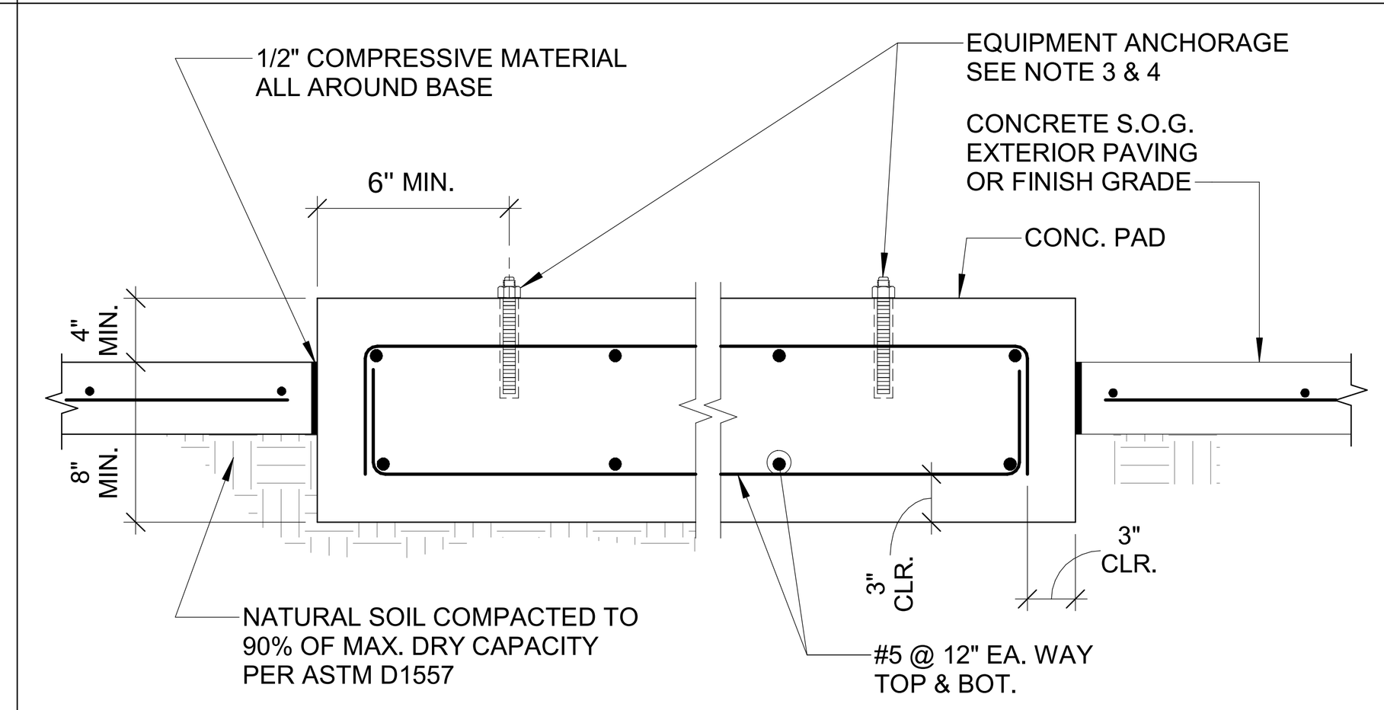


15 POLE FOUNDATION
N.T.S.

NOTES:
1. UNIT ATTACHMENT TO UNISTRUT S SHALL BE PER MANUFACTURER REQUIREMENT. USE (1) 1/4" DIA. BOLT AT EA. CORNER, (4) TOTAL MIN. REQUIRED.
2. HORIZONTAL STRUTS PER MANUFACTURER, USE UNISTRUT P1000 AS MINIMUM REQUIRED.
3. SEE PV DRAWINGS FOR UNIT INFORMATION, DIMENSIONS, AND LOCATION.



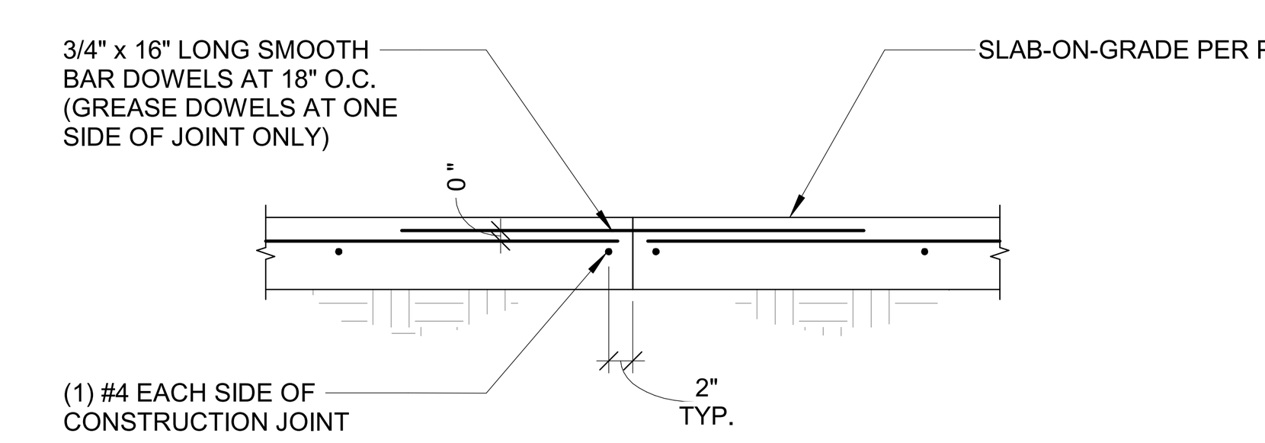
11 BATTERY COMBINER SUPPORT OVER CONC. PAD
N.T.S.



ANCHOR BOLT SCHEDULE							
UNIT INFORMATION	ANCHOR DIA.	MIN. # OF ANCHOR	MAX SPACING	MIN. EDGE DIST.	EFFECTIVE EMBED.	MAX. WT. (LBS.)	C.G. HT. (IN.)
EVO POWER FLEX 250 KWH (SEE NOTE 4)	1/2"	(4) EA. SIDE	12"	6"	3 1/4"	6600	48
SQUARE D EX300 TRANSFORMER	1/2"	(2) EA. SIDE	12"	6"	3 1/4"	2901	30

NOTES:
1. REFER TO MEP DRAWINGS FOR EQUIPMENT SPECIFICATIONS.
2. PRIOR TO CONSTRUCTION, VERIFY CONCRETE PAD SIZE IS ADEQUATE FOR THE EQUIPMENT PER MFR. RECOMMENDATIONS.
3. PROVIDE HILTI KB-TZ2-SS304 EXPANSION ANCHOR PER SCHEDULE. (ICC ESR-4266).
4. ONE ANCHOR SHALL BE PLACED 3" FROM EACH CORNER IN EACH DIRECTION

7 EQUIPMENT CONCRETE PAD
N.T.S.



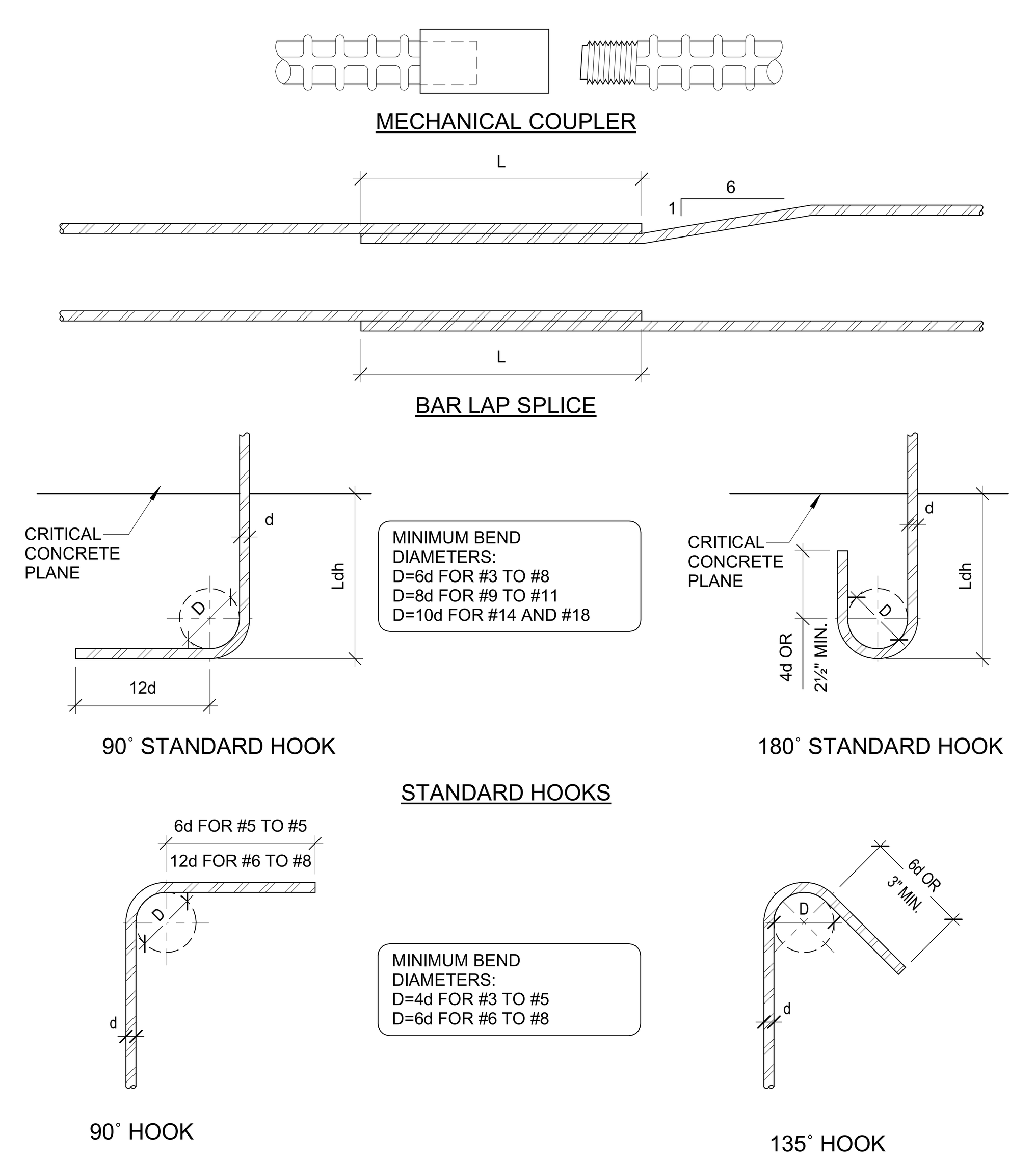
3 CONSTRUCTION JOIINT @ SLAB ON GRADE
N.T.S.

HOOKED BAR DEVELOPMENT LENGTH (Ldh), INCHES		
BAR SIZE	Fy (ksi)	f'c=4000 PSI
#3	60	7
#4	60	11
#5	60	15
#6	60	20
#7	60	25
#8	60	30
#9	60	36
#10	60	43

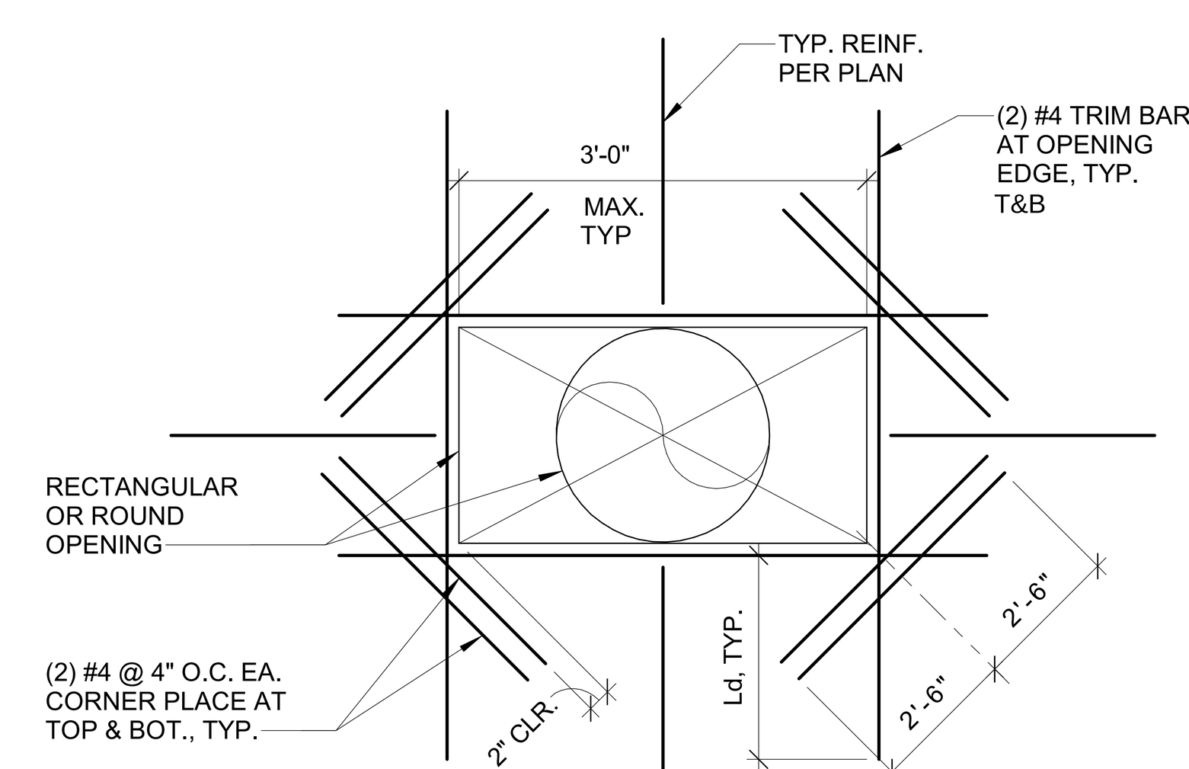
BAR DEVELOPMENT LENGTH (Ld), INCHES			
BAR SIZE		f'c=4000 PSI	
	Fy (ksi)	TOP BARS	OTHER BARS
#3	60	19	15
#4	60	25	19
#5	60	31	24
#6	60	37	29
#7	60	54	42
#8	60	62	48
#9	60	70	54
#10	60	79	61

BAR LAP SPLICE LENGTH (L), INCHES			
BAR SIZE		f'c=4000 PSI	
	Fy (ksi)	TOP BARS	OTHER BARS
#3	60	24	19
#4	60	33	25
#5	60	41	31
#6	60	49	37
#7	60	71	54
#8	60	81	62
#9	60	91	70
#10	60	102	79

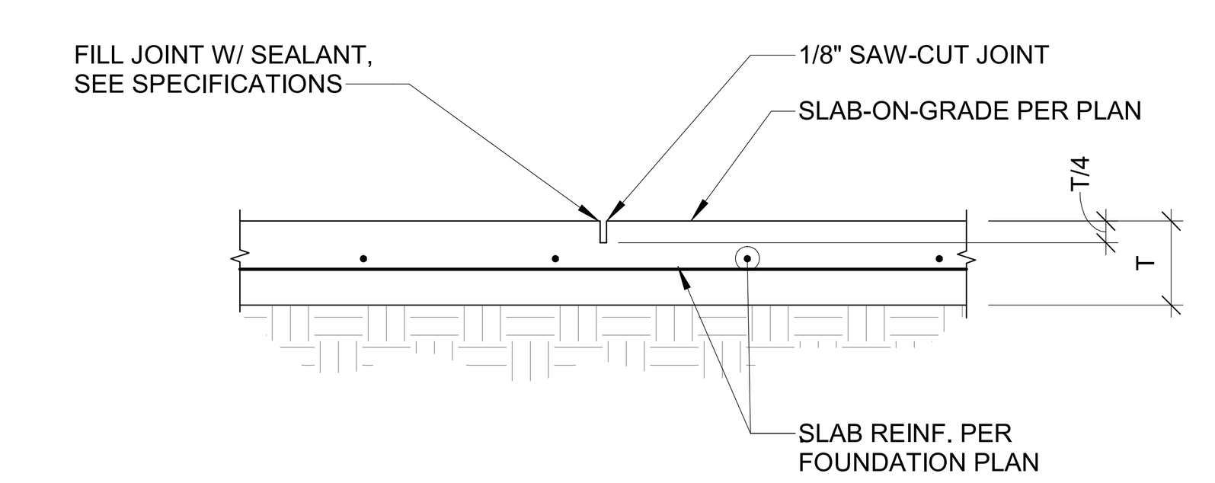
NOTES:
1. TABULATED VALUES ARE IN INCHES FOR NORMAL WEIGHT CONCRETE AND UNCOATED REINFORCING STEEL. FOR LIGHTWEIGHT CONCRETE INCREASE LENGTHS BY 30%. FOR EPOXY COATED BARS INCREASE LENGTHS BY 50%.
2. TABULATED LAP SPLICE LENGTHS ARE FOR CLASS B SPLICES AS DEFINED IN ACI 318. FOR CLASS A SPLICES REDUCE LENGTH BY 30%. CLASS A SPLICES MAY BE USED WHEN SPECIFICALLY CALLED ON DRAWINGS AND IF ONE HALF OR LESS OF THE TOTAL NUMBER OF BARS ARE SPLICED WITHIN THE REQUIRED LAP LENGTH.
3. BAR DEVELOPMENT LENGTHS AND SPLICE LENGTHS OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE INCREASED BY 20% FOR A 3-BAR BUNDLE AND 33% FOR A 4-BAR BUNDLE.
4. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
5. FOR COMPRESSION LAP SPLICE LENGTH (ONLY WHERE INDICATED ON DRAWINGS) USE 30 BAR DIAMETER, NOT LESS THAN 12".
6. CLEAR COVER OVER REINFORCING SHALL BE AT LEAST 1 BAR DIAMETER, AND SPACING BETWEEN BARS BEING LAPPED OR SPLICED SHALL BE AT LEAST 2 BAR DIAMETERS.
7. MECHANICAL SPLICES MAY BE USED AT CONTRACTOR'S OPTION. MECHANICAL SPLICES SHALL BE TYPE 2 AS DEFINED IN ACI 318 AND SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH (Fy) OF THE SPLICED BAR.
8. WHERE MECHANICAL SPLICES ARE USED, STAGGER ADJACENT SPLICES BY 24" O.C..
9. THE SMALLER BAR SPLICE LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZED BARS.
10. THREADED MECHANICAL COUPLER SHALL BE ERICO, LENTON COUPLER (IAPMO ER-0129) UNLESS NOTED OTHERWISE. COUPLER SHALL DEVELOP 100% OF THE BAR TENSILE STRENGTH.



13 TYP. REINF. LAP SPLICE AND DEVELOPMENT LENGTH
N.T.S.

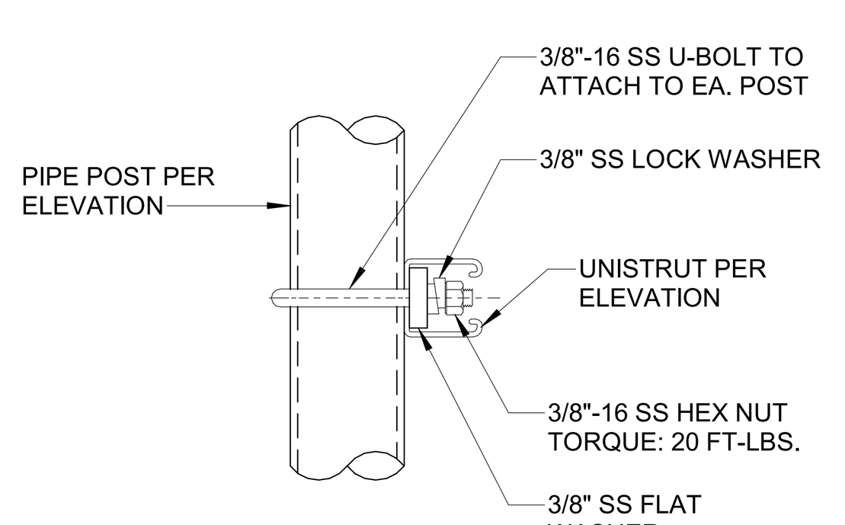


6 OPENING IN CONCRETE PAD
N.T.S.

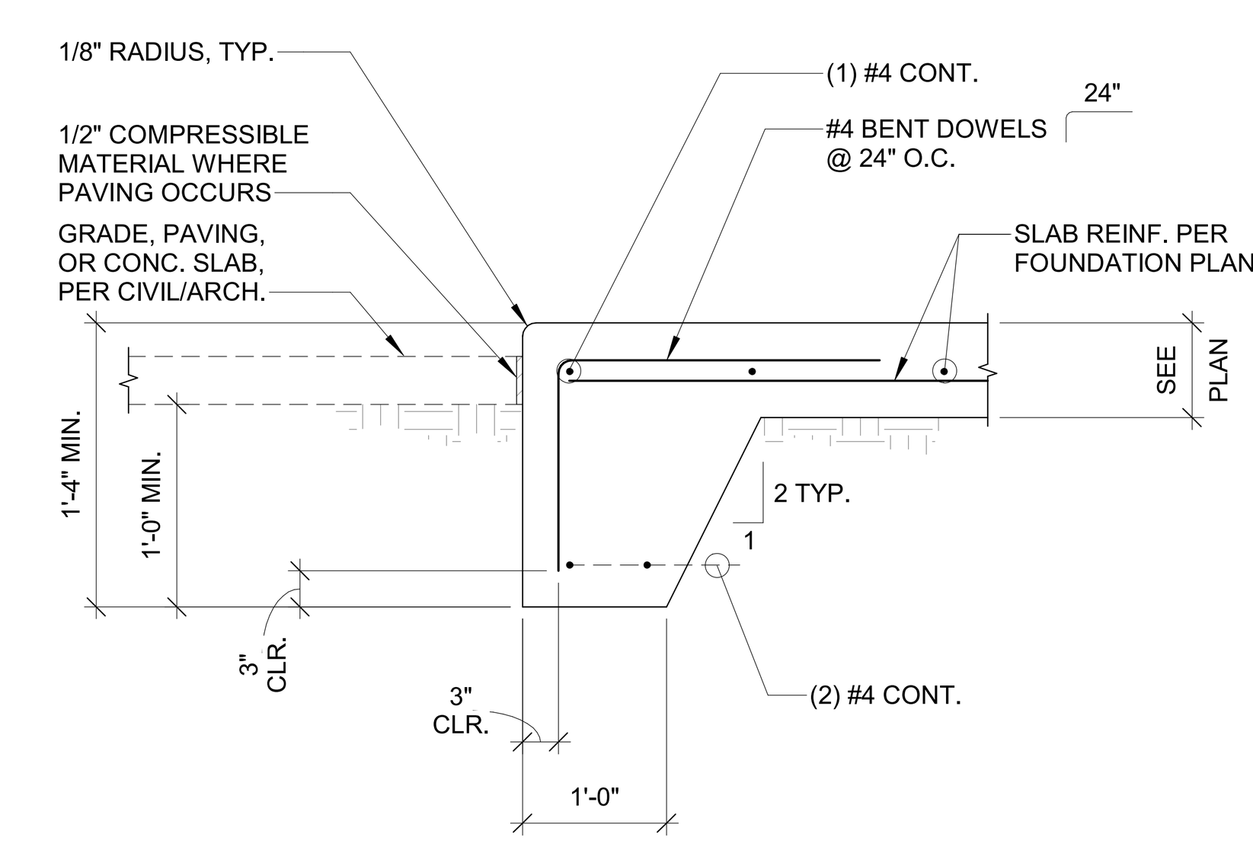


NOTES:
1. SLAB-CUTTING PERMITTED THE SAME DAY OF THE POUR.
2. SPACE JOINTS @ 16'-0" O.C. MAX. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. CONTROL JOINTS LOCATION SHALL BE SUBMITTED AND APPROVED BY PROJECT ARCHITECT.

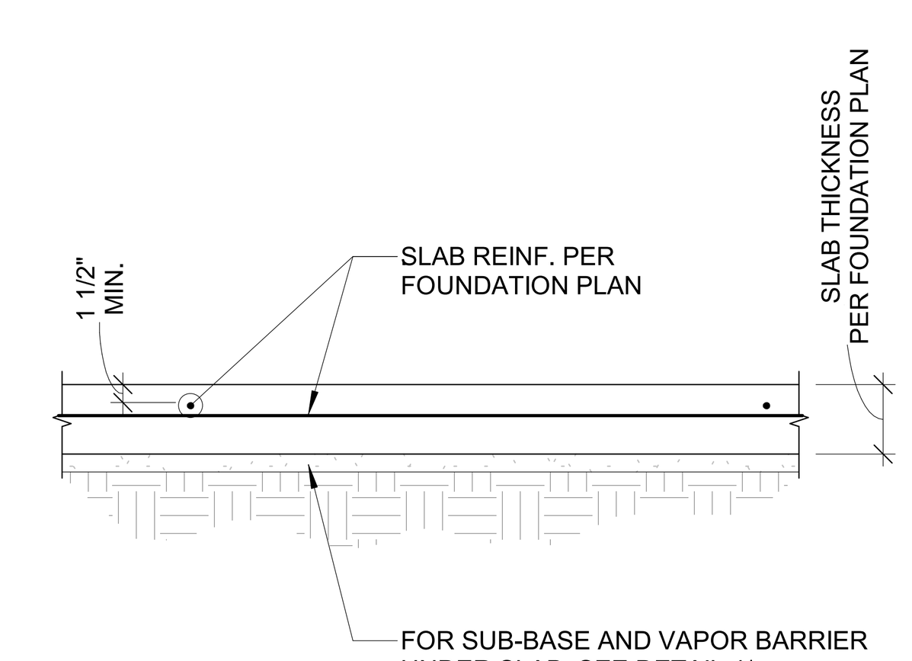
2 SLAB CONTROL JOINTS
N.T.S.



17 TYP. U-BOLT FOR UNISTRUT TO PIPE CONN.
N.T.S.



5 EDGE OF EXTERIOR SLAB
N.T.S.



1 SLAB ON GRADE
N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122376 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/08/2026

PBK

ARCHITECT PBK Architects, Inc.
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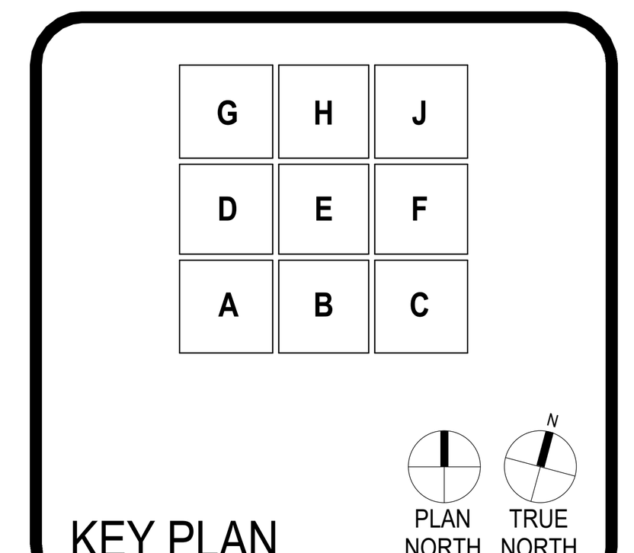
CAMILLE CREEK COMMUNITY SCHOOL - BATTERIES ENCLOSURE
NCOE
CAMILLE CREEK COMMUNITY SCHOOL
2097 IMOLA AVE., NAPA, CA 94559
PTN: 10280-21, DSA#01-122376

NAPA COUNTY OFFICE OF EDUCATION



KEY PLAN

CLIENT
NCOE
PROJECT NUMBER
250118
DATE 05/04/2026
DRAWN BY: DM CHKED BY:

REVISIONS		
#	DESCRIPTION	DATE

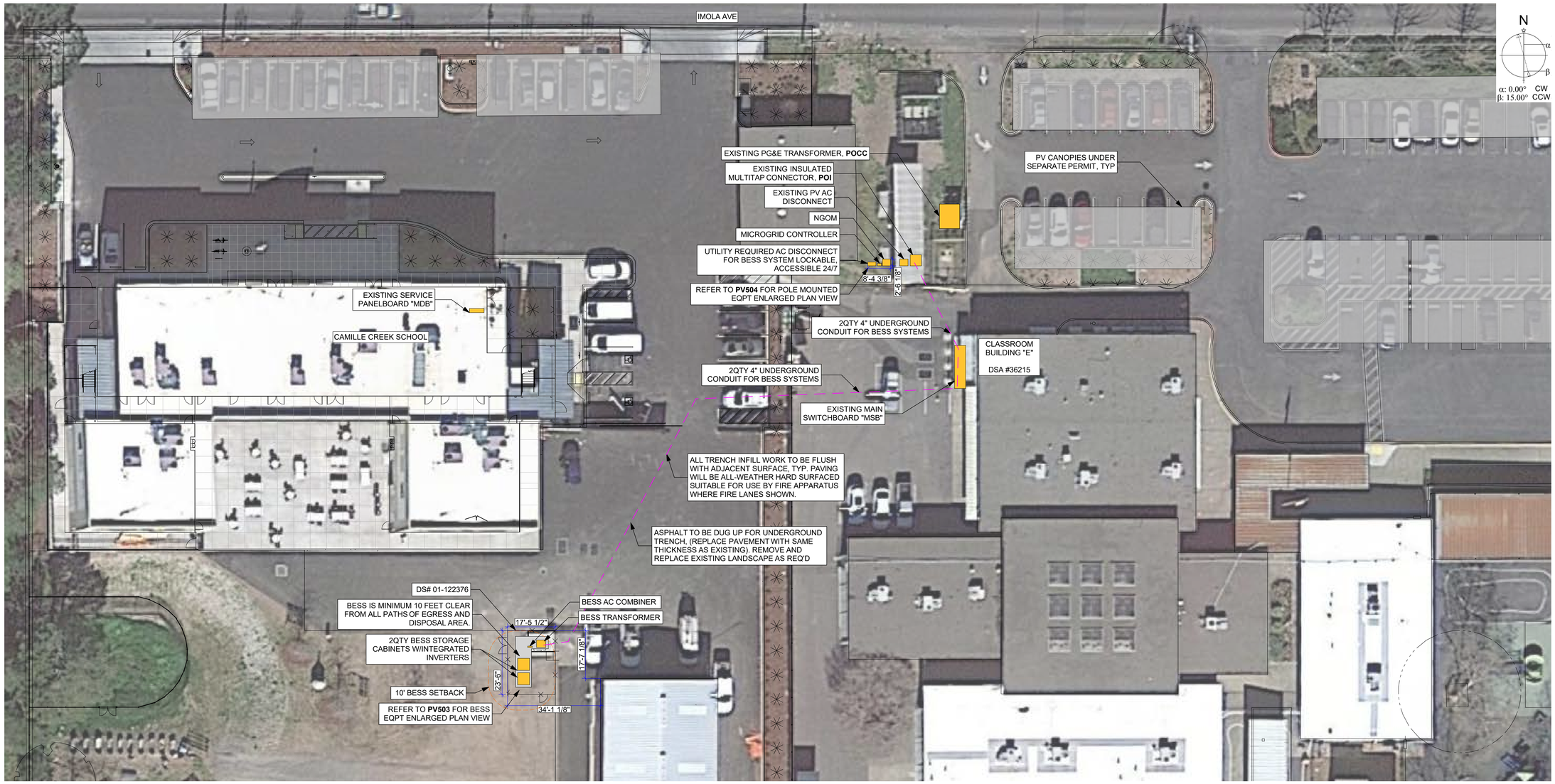
TYPICAL DETAILS

S4.0

G0.10 - SITE DATA & CODE ANALYSIS INC 1

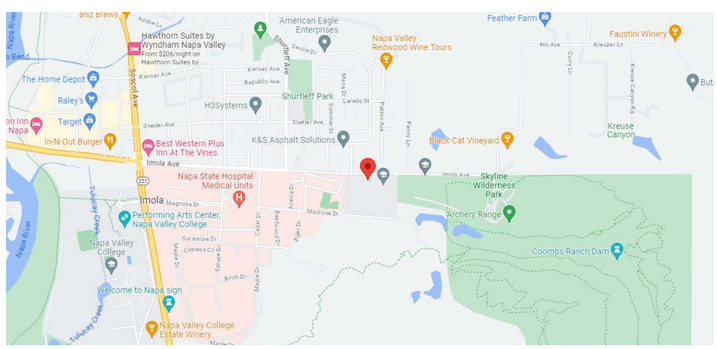
BESS SYSTEM FOR CAMILLE CREEK COMMUNITY SCHOOL

2097 IMOLA AVE, NAPA CA 94558



1 BESS SYSTEM WITH 250.00 kWac (500.00 kWhr) OF BATTERY STORAGE

0 8' 16' 32'



2 LOCUS MAP

0 1250' 2500'

NOT A PART - SEPARATE APPLICATION (A#01-121758)

BATTERY MODULE ENCLOSURE	EVO FLEX SERIES 250kW - 500kWh
BATTERY SYSTEM CAPACITY (kWh)	500.00
BATTERY SYSTEM SIZE (kWac)	250.00

LIST OF APPLICABLE CODES
2025 California Administrative Code (CAC), Part 1, Title 24 CCR
2022 California Building Code (CBC), Part 2, Title 24 CCR
2022 California Electrical Code (CEC), Part 3, Title 24 CCR
2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
2022 California Energy Code, Part 6, Title 24 CCR
2022 California Fire Code (CFC), Part 9, Title 24 CCR
2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2022 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2020 National Electric Code

APPLICABLE STANDARDS
For a list of applicable standards, including California amendments to the NFPA Standards, refer to CBC Chapter 35 and CFC Chapter 80.
PG&E CONSTRUCTION STANDARDS
NAPA, CA BUILDING & ELECTRICAL INSPECTORS (AHJs)
NAPA, CA FIRE DEPARTMENT (AHJs)
INSTALLING CONTRACTOR AND ALL PERSONNEL ON SITE SHALL FOLLOW APPROPRIATE LOTO PROCEDURES BEFORE SERVICING EQUIPMENT AND SHALL BE EQUIPPED WITH THE APPROPRIATE PPE.

SHEET INDEX

ID	Name	Published
PV001	BESS SITE PLAN - CC	☒
PV002	BESS PROP LINES - CC	☒
PV003	PV SYSTEM NOTES - CC	☒
PV301	TRENCH & FENCE GROUND DETAILS - CC	☒
PV302	CONDUIT ENTRANCE DETAILS - CC	☒
PV501	BESS PADS ELEVATION - CC	☒
PV502	BESS PADS LAYOUT I - CC	☒
PV503	BESS PADS LAYOUT II - CC	☒
PV504	EQUIPMENT ELEVATION - CC	☒
PV601	AC WIRE & COND SCHED - CC	☒
PV602	SINGLE LINE - CC - OPT 1	☒
PV603	SINGLE LINE - CC - OPT 2	☒
PV702	LABELS - CC	☒
PV801	DATASHEETS - CC	☒
PV802	DATASHEETS II - CC	☒

Wednesday, April 29, 2026

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ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

CAMILLE CREEK COMMUNITY SCHOOL - BATTERIES ENCLOSURE
NAPA COUNTY OFFICE OF EDUCATION
CAMILLE CREEK COMMUNITY SCHOOL
2097 IMOLA AVE, NAPA, CA 94559
PTN - 10280-21, DSA# 01-122376
DESIGN DEVELOPMENT

solar design associates
HARVARD, MA 01451-0242 tel: 978-456-6855
www.solardesign.com fax: 978-772-9715

KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
NCOE
PROJECT NUMBER
250118
DATE Wednesday, April 29, 2026
DRAWN BY: MJ CHKED BY: CW,HS, TP

REVISIONS

#	DESCRIPTION	DATE
-	DESIGN DEVELOPMENT SET	04/23/2025
-	CONSTRUCTION DOCUMENTS SET	07/03/2025
1	BESS UPDATE	01/28/2026
2	BESS UPDATE	03/19/2026
-	PBK EDITS	04/29/2026

DESIGN DEVELOPMENT

BESS SITE PLAN - CC

PV001

G0.10 - SITE DATA & CODE ANALYSIS-INC 1

1 BESS SYSTEM PROPERTY LINES

0 16' 32' 64'

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DESIGN DEVELOPMENT

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KEY PLAN
PLAN NORTH TRUE NORTH

Electrical
STATE OF CALIFORNIA
9/30/2026
5/1/2026

CLIENT
NCOE

PROJECT NUMBER
250118

DATE Wednesday, April 29, 2026

DRAWN BY: MJ CHKED BY: CW,HS, TP

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-	PBK EDITS	04/29/2026

DESIGN DEVELOPMENT

BESS PROP LINES - CC

PV002

Wednesday, April 29, 2026

PROCEDURAL NOTES:

1. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES NOTED TO EXISTING CONDITIONS, STRUCTURE, ELECTRICAL RUNS (SPECIFY EXISTING ITEMS). AMONG SITE CONDITIONS, MANUFACTURER RECOMMENDATIONS OR CODES, REGULATIONS OR RULES OF JURISDICTIONS HAVING AUTHORITY.
2. ALL DIMENSIONS OF EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING AND SHORING OF EQUIPMENT DURING INSTALLATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS, OSHA REQUIREMENTS AND SAFETY MEASURES ON SITE. THE ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY AND NO DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS OR FOR POSSIBLE EXISTING HAZARDS.
5. CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO MAKING ANY CHANGES.
6. APPROVED CHANGES SHALL REQUIRE A DRAWING REVISION TO MAINTAIN CONTROL OVER THE ENGINEER APPROVED DESIGN. DEVIATION FROM THESE PLANS PRIOR TO ENGINEER APPROVAL PLACES ALL LIABILITY ON THE CONTRACTOR.

GENERAL NOTES:

1. STRUCTURAL AND GEOTECHNICAL FIELD CONDITIONS ARE TO BE DETERMINED BY OTHERS, AND PLANS ARE TO BE MODIFIED AS NEEDED/IF APPROPRIATE. DEFICIENCIES SHOULD BE NOTED AND CORRECTED PRIOR TO THE START OF CONSTRUCTION.
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL MANUFACTURER'S OR ENGINEER'S DIRECTIONS AND INSTRUCTIONS SHOWN ON CONSTRUCTION DOCUMENTS.
3. THE ELECTRICAL CONTRACTOR IS ADVISED THAT UTILITY INTERCONNECTION REQUIREMENTS AND ALL DRAWINGS, COMPONENT MANUALS, ESPECIALLY THE INVERTER MANUALS, ARE TO BE READ AND UNDERSTOOD PRIOR TO INSTALLATION OR ENERGIZING OF ANY EQUIPMENT.
4. THE CONTRACTOR IS ALSO ADVISED TO HAVE ALL COMPONENT & SWITCHES IN THE OFF (OPEN) POSITION AND FUSES REMOVED PRIOR TO INSTALLATION OF FUSE-BEARING COMPONENTS.
5. THIS BATTTERY SYSTEM IS TO BE INSTALLED FOLLOWING THE CONVENTIONS OF THE NATIONAL ELECTRIC CODE (NEC) AND ANY LOCAL CODE WHICH MAY SUPERSEDE THE NEC SHALL GOVERN.
6. ALL COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE LISTED BY A THIRD PARTY TESTING AGENCY (UL, ETL, ETC.). EQUIPMENT SHALL BE NEMA 3R OUTDOOR RATED OR BETTER, UNLESS LOCATED INDOORS.
7. DC VOLTAGE FROM THE BATTERY IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. THE LINE AND LOAD TERMINALS ON THE DC DISCONNECTS MAY BE ENERGIZED IN THE OFF (OPEN) POSITION AND THE SWITCH IS TO BE LABELED TO COMPLY WITH ARTICLE 690.13 OF THE NEC REFLECTING THIS.
8. ALL PORTIONS OF THIS BATTERY SYSTEM SHALL BE CLEARLY MARKED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ARTICLE 690.
9. THE ELECTRICAL CONTRACTOR SHALL PERFORM INITIAL HARDWARE CHECKS AND PV WIRING CONDUCTIVITY CHECKS PRIOR TO TERMINATING ANY WIRES. MEDIUM VOLTAGE WIRES ARE AN EXCEPTION TO THIS. ALL AC AND DC WIRE RUNS SHALL BE MEGGER TESTED AT 1000 VDC TO DEMONSTRATE A MINIMUM OF 5 MEGAOHMS RESISTANCE TO GROUND.
10. THIS POINT IS REITERATED SEVERAL TIMES IN THESE DRAWINGS BECAUSE IT IS VERY IMPORTANT TO PREVENT EQUIPMENT DAMAGE
11. MEGGERING IS INTENDED FOR ALL CONDUCTORS INSTALLED BY THE ELECTRICAL CONTRACTOR. RESTRICT MEGGER TO 1000VDC
12. FOR PROPER MAINTENANCE AND ISOLATION OF INVERTERS, REFER TO ISOLATION PROCEDURE IN INVERTER OPERATION MANUAL. CONTRACTOR PERFORMING THE MAINTENANCE IS RESPONSIBLE TO FOLLOW ALL LOCKOUT TAGOUT PROCEDURES.
13. THIS BATTERY SYSTEM'S UTILITY INTERCONNECTION POINT SHALL MEET THE SPECIFIC REQUIREMENTS OF ARTICLE 690.59, NATIONAL ELECTRIC CODE. PLEASE FOLLOW THE SPECIFIC INSTRUCTIONS IN THIS DRAWING SET TO MEET THIS CODE REQUIREMENT.
14. THE GROUNDING OF THEBATTERY SYSTEM SHALL COMPLY WITH NEC 690.45 AND NEC 690.47. IF THE REQUIREMENTS DESCRIBED IN THIS DRAWING SET ARE CLOSELY FOLLOWED, THE GROUNDING REQUIREMENT WILL BE MET. ANY CHANGES WILL NEED TO BE REVIEWED AND DEEMED ACCEPTABLE BY THE ENGINEER, MANUFACTURER AND LISTING AGENCY FOR PRODUCT SAFETY.
15. THE ELECTRICAL CONTRACTOR IS NOT TO START OR COMMISSION THE BESS OR INVERTER SYSTEM AT ANY TIME, UNLESS NOTIFIED OTHERWISE IN WRITING. THIS WILL BE DONE BY OTHERS.
16. THE CONTRACTOR IS RESPONSIBLE FOR MOUNTING ALL EQUIPMENT PER THE ENGINEER'S INPUT OR MANUFACTURER'S SPECIFICATIONS. IF SPECIFICATIONS ARE NOT APPARENT, THE CONTRACTOR SHALL USE DILIGENT EFFORTS TO MOUNT EQUIPMENT SUCH THAT IT WILL BE CLEAN, LEVEL AND SOLID IN ORDER TO LAST THE LIFETIME OF THIS SOLAR ELECTRIC SYSTEM.
17. ANY METAL SHAVINGS RESULTING FROM SITE WORK SHALL BE CLEANED FROM ENCLOSURE INTERIORS, TOP SURFACES OF ENCLOSURES, ROOF SURFACE, GROUND SURFACE AND ANY ADDITIONAL AREAS WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS OR OTHER DAMAGE
18. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO THE STRUCTURE.
19. ALL COMPONENTS SHOWN ON THE RISER DIAGRAMS, BUT NOT ON THE PLAN OR VICE VERSA, SHALL BE INCLUDED AS IF SHOWN ON BOTH.
20. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS.
21. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND COORDINATE THE ELECTRICAL WORK WITH THE OTHER CONTRACTORS. SHOULD CONFLICTS, DISCREPANCIES, OR DEFICIENCIES, ARISE WHICH REQUIRE CHANGES IN THE CONTRACT DOCUMENTS, IMMEDIATELY NOTIFY THE ENGINEER. OBTAIN WRITTEN DIRECTION ON NECESSARY ADJUSTMENTS BEFORE THE INSTALLATION IS MODIFIED.
22. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF NEW CIRCUITS, NUMBERS OF CIRCUITS, LOCATIONS OF OUTLETS, AND THE INTERCONNECTION. THE CONTRACTOR MAY MODIFY THE RACEWAY ARRANGEMENT TO ACCOMMODATE FIELD CONDITIONS.
23. ALL NEW CIRCUITRY SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR TO BE INCORPORATED IN TO A RECORD SET OF AS-BUILT DRAWINGS ISSUED UPON COMPLETION OF INSTALLATION PRIOR TO START UP.
24. PROVIDE COMPLETE, ACCURATE, LAMINATED AND TYPED PANELBOARD CIRCUIT DIRECTORIES AT THE COMPLETION OF WORK FOR ALL PANELS IN THIS PROJECT.
25. LAYOUT ALL WORK IN ADVANCE WHERE CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS PARTITIONS, CEILINGS OR OTHER SURFACES IS NECESSARY FOR SUPPORT OR ANCHORAGE OF RACEWAYS, OUTLETS OR ELECTRICAL EQUIPMENT, THIS WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ANY DAMAGE TO PIPING, EQUIPMENT OR DEFACED FINISH, OR METALWORK SHALL BE REPAIRED BY SKILLED CRAFTSMEN OF TRADES INVOLVED AT NO ADDITIONAL COST TO THE OWNER. DO NO CUTTING, CHANNELING, DRILLING, WELDING OF STRUCTURAL MEMBERS OF THE BUILDING WITHOUT OBTAINING APPROVAL FROM THE ENGINEER.
26. PLUGS, SWITCHES, AND LIGHTS SHALL BE MARKED AND IDENTIFIED WITH E-Z MARKERS OR DYMOTAPED AND PEN-MARKED (WITH PERMANENT MARKER) INSIDE COVER TO SHOW PANEL AND CIRCUIT BREAKER NUMBER. WIRES SHALL BE MARKED WITH CIRCUIT NUMBERS USING BRADY MARKERS (OR EQUAL) AT PANEL.
27. MINIMUM SIZE BRANCH CIRCUIT CONDUIT SHALL BE 3/4 IN.
28. EMPTY CONDUITS SHALL BE PROVIDED WITH NYLON PULL STRING.
29. PROVIDE INSULATED GROUND WIRE (THHN/THWN-2) FOR ALL BRANCH CIRCUITS AND FEEDER CIRCUITS.
30. PROVIDE SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR WITH ALL BRANCH CIRCUITS. TERMINATE EACH END ON A GROUNDING LUG, BUS, OR BUSHING.
31. PROVIDE CIRCUIT NUMBER IDENTIFICATION MARKERS ON ALL CONDUCTORS, NEUTRALS, AND GROUNDS IN ALL PANELBOARDS, BOXES, AND OUTLETS.
32. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ALL DISCREPANCIES BETWEEN DRAWINGS OF DIFFERENT TRADES, PRIOR TO INITIATION OF ANY WORK.
33. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ON-SITE SAFETY OF THE SITE WORKERS AND THE GENERAL PUBLIC DURING CONSTRUCTION.
34. THE CONTRACTOR WILL FURNISH AND INSTALL ALL ANCHOR BOLTS, NUTS, WASHERS, GROUT, CONCRETE PADS, AND REINFORCING STEEL REQUIRED FOR PROPER INSTALLATION OF ANY EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
35. ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS AND SPECIFICATIONS CAREFULLY, TO VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO SUBMITTING THE PROPOSAL. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE CONTRACTOR FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. NO ADDITIONAL COST SHALL BE PASSED ON TO THE OWNER FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.

ELECTRICAL NOTES:

1. IN EVERY PULL BOX, TERMINAL BOX, AND AT ALL PLACES WHERE WIRES MAY NOT BE READILY IDENTIFIED BY NAMEPLATE MARKINGS ON THE EQUIPMENT TO WHICH THEY CONNECT, IDENTIFY EACH CIRCUIT WITH A PLASTIC LABEL OR TAG FOR NUMBER, POLARITY OR PHASE.
2. THE LAYOUT OF CONDUIT SHOWN IN THESE PLANS IS INDICATIVE ONLY. CONTRACTOR SHALL ROUTE AND LOCATE THE CONDUITS TO SUIT SITE CONDITIONS BUT SHALL NOT EXCEED THE MAXIMUM CONDUCTOR LENGTHS IDENTIFIED ON THE WIRE SCHEDULE. CONTRACTOR WILL COORDINATE ALL CHANGES IN WIRING AND CONDUIT WITH THE ENGINEER.
3. WHERE WIRE AND CABLE ROUTING IS NOT SHOWN, AND DESTINATION ONLY IS INDICATED, CONTRACTOR SHALL DETERMINE EXACT ROUTING AND LENGTHS REQUIRED. A SHOP DRAWING OF PROPOSED INSTALLATION SHALL BE SUPPLIED TO ENGINEER OF RECORD PRIOR TO INSTALLATION.
4. BENDS SHALL NOT DAMAGE THE RACEWAY OR SIGNIFICANTLY CHANGE THE INTERNAL DIAMETER OF RACEWAYS (NO KINKS).
5. SUPPORT CONDUCTORS IN VERTICAL CONDUITS IN ACCORDANCE WITH REQUIREMENTS IN NEC 300.19
6. INSTALL ALL WIRING MATERIALS IN A NEAT WORKMANLIKE MANNER. USE GOOD TRADE PRACTICES AS REQUIRED BY CHAPTER 3 OF THE NEC AND RELEVANT NEC ADMENDMENTS. ALL EXPOSED CABLES, SUCH AS MODULE LEADS, TO BE SECURED WITH UV RATED MECHANICAL OR OTHER APPROVED MEANS WITH A 25 YEAR LIFE.
7. INSTALL CONDUIT TO MAINTAIN PROPER CLEARANCES AND IN A NEAT INCONSPICUOUS MANNER. RUN PARALLEL AND AT RIGHT ANGLES TO STRUCTURAL MEMBERS OR OTHER CONDUITS. PROVIDE BOXES, FITTINGS AND BENDS FOR CHANGES IN DIRECTION. FASTEN CONDUIT SECURELY IN PLACE. SUPPORT CONDUIT USING STEEL PIPE STRAPS, LAY-IN ADJUSTABLE HANGERS, CLEVIS HANGERS OR SPLIT-HANGERS. HANGER SPACING SHALL BE INSTALLED PER NEC REQUIREMENTS FOR THE TYPE OF CONDUIT BEING INSTALLED. USE APPROVED BEAM CLAMPS FOR CONNECTION TO STRUCTURAL MEMBERS.
8. PROVIDE PULL, JUNCTION, OR CHRISTY BOXES WHERE REQUIRED TO FACILITATE THE INSTALLATION OF WIRING IN ADDITION TO THOSE SHOWN ON THE DRAWINGS. BENDS IN CONDUITS BETWEEN PULL BOXES SHALL NOT EXCEED THE EQUIVALENT OF FOUR 90 DEGREE BENDS.
9. WHEN FIELD CUTTING IS REQUIRED, THE CONDUIT SHALL BE CUT SQUARE AND DEBURRED.
10. CONDUIT SIZES NOT SPECIFIED SHOULD CONFORM TO NEC SPECIFICATIONS, TO INCLUDE FILL FACTOR AND DERATING FOR NUMBER OF CONDUCTORS WITH A MINIMUM CONDUIT SIZE BEING 3/4".
11. SAFETY REGULATIONS (LOCK OUT - TAG OSHA OUT, ETC ..) ARE THE FULL RESPONSIBILITY OF THE CONTRACTOR DURING CONSTRUCTION (NFPA70E)
12. THE WIRING SIZE IS BASED ON THE ESTIMATED CONDUIT ROUTING AS SHOWN IN THIS DRAWING PACKAGE. SHOULD THE CONDUIT'S LENGTH INCREASE DUE TO RELOCATION OF SOURCE AND/OR ROUTING, THE CONDUITS AND THE CONDUCTORS MAY NEED TO BE RESIZED. PLEASE CONTACT THE ENGINEER PRIOR TO MAKING ANY FIELD CHANGES.
13. ALL WIRING IN CONDUIT SHALL BE THWN-2 FOR 90C APPLICATIONS. USE XHHW-2 GROUND FOR ALL EXTERNAL GROUNDING.
14. ALL CONDUITS SHALL BE FREE OF ANY OBSTRUCTIONS AND PROPERLY SECURED BEFORE WIRE IS PULLED.
15. ELECTRICAL CONTRACTOR TO PROVIDE SIGNAGE TO ALL ELECTRICAL BOXES, JUNCTION BOXES, PULL BOXES, DC DISCONNECTS, CONDUIT RUNS, AC DISCONNECTS, SUB PANELS AND MAIN SERVICES PER NEC ARTICLE 690.
16. MEGGER TESTING: MEGGER (INSULATION) TEST ALL CONDUCTORS AT 1,000V TO 5 MEGAOHMS BETWEEN THE CONDUCTOR UNDER TEST AND GROUND WIRE. CONDUCT TEST AFTER WIRE IS PULLED THROUGH THE CONDUIT BUT BEFORE TERMINATING TO THE MODULES, COMBINERS, DISCONNECTS OR INVERTER.
17. ALL FASTENERS SHALL BE STAINLESS STEEL, UNLESS OTHERWISE NOTED.
19. VOLTAGE DROP HAS BEEN CONSIDERED IN THE DESIGN OF ALL CIRCUITRY AND FEEDER SIZES BASED UPON THE ILLUSTRATED EQUIPMENT LAYOUTS AND PLANNED CONDUCTOR/RACEWAY ROUTING. TOTAL VOLTAGE DROP FROM BATTERY TO INTERCONNECTION HAS BEEN KEPT BELOW 3%. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEVIATIONS TAKEN THAT WILL INCREASE CONDUCTOR/RACEWAY ROUTING LENGTHS. IF THERE ARE ANY CHANGES TO CONDUTOR/RACEWAY PATHS, THE CONTRACTOR SHOULD SIZE CONDUCTORS TO REMAIN BELOW 3% VOLTAGE DROP FOR THE SYSTEM OVERALL.
20. ALL EXPOSED CIRCUITRY ON ROOFTOPS, ON EXTERIOR WALLS, OR IN THE FIELD SHALL BE INSTALLED IN RMC OR IMC WITH RIGID CONNECTIONS TO ALL EQUIPMENT. ALL PENETRATIONS OF WEATHER TIGHT BOXES SHALL UTILIZE WEATHERPROOF HUBS. ALL CONDUIT SUPPORTS SHALL BE HOT DIPPED GALVANIZED. ALL FASTENERS, MISCELLANEOUS SUPPORTS (UNISTRUT OR EQUAL) AND HARDWARE UTILIZED FOR THE ELECTRICAL INSTALLATION SHALL BE STAINLESS STEEL OR HOT DIP GALVANIZED.
21. SWITCHBOARDS, PANELBOARDS, METER SOCKET ENCLOSURES AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

BATTERY INSTALLATION NOTES:

1. REFER TO THE MODULE MANUAL FOR MORE DETAILS ON RIGGING, UNPACKING, HANDLING, PLANNING, INSTALLATION AND TORQUE SPECIFICATION.

INVERTER COMMISSIONING:

BEFORE TURNING THE INVERTER ON, OR CLOSING ANY OF THE INVERTER DISCONNECTS, THE FOLLOWING COMMISSIONING PROCEDURE SHALL BE COMPLETED:

1. CHECK THAT THE INVERTER IS PROPERLY GROUNDED, AS DESCRIBED BY THE MANUFACTURER AND THESE INSTRUCTIONS.
2. CHECK THE INVERTER DC INPUT VOLTAGE (Voc) FROM THE BATTERY FOR PROPER POLARITY INSIDE THE INVERTER CABINET.
3. CHECK DC INPUT VOLTAGE (Voc) IS WITHIN THE PROPER RANGE IN THE INVERTER CABINET AS DEFINED BY THE INVERTER RATING LABEL AND MANUFACTURE'S INSTALLATION AND OPERATION MANUAL.
4. CHECK THAT THE AC INPUT VOLTAGES ARE IN THE PROPER PHASE SEQUENCE (CLOCKWISE) IF APPLICABLE
5. CHECK THAT THE AC GRID VOLTAGE, AT THE INVERTER AC TERMINALS, IS WITHIN THE PROPER RANGE AS DEFINED BY THE INVERTER RATING LABEL AND MANUFACTURE'S MANUAL
6. FOLLOW START-UP SEQUENCE IN MANUFACTURER'S OPERATION AND MAINTENANCE MANUAL.

ELECTRICAL NOTES FOR PHOTOVOLTAIC SYSTEM

1. THIS PROPOSED BATTERY SYSTEM AND EXISTING SOLAR ELECTRIC SYSTEM IS INTENDED TO OPERATE IN PARALLEL WITH POWER RECEIVED FROM THE UTILITY SERVICE PROVIDER.
2. THE BATTERY SYSTEM OUTPUT CIRCUITS OF THIS PROPOSED SOLAR SYSTEM SHALL NOT BE CONTAINED IN THE SAME RACEWAY CABLE TRAY, CABLE, OUTLET BOX, JUNCTION BOX, OR SIMILAR FITTING AS FEEDERS OR BRANCH CIRCUITS OF OTHER SYSTEMS UNLESS THE CONDUCTORS OF THE DIFFERENT SYSTEMS ARE SEPARATED BY A PARTITION OR ARE CONNECTED TOGETHER.
3. THE BATTERY FOR THE PROPOSED BATTERY SYSTEM SHALL BE IDENTIFIED FOR USE IN BATTERY SYSTEMS. ALL EQUIPMENT SHALL BE UL APPROVED PER UL 1741 SB.
4. THIS SYSTEM IS INTENDED TO CONNECT TO THE UTILITY POWER SYSTEM AT ONE POINT. THIS CONNECTION SHALL BE IN COMPLIANCE WITH THE NEC NFPA 70 ARTICLES 690.59, AND 705.12.
5. ALL COMBINER BOXES SHALL HAVE DISCONNECTION MEANS AT THE INVERTER FOR ISOLATION AND TESTING (MAINTENANCE DC DISCONNECTS).
6. ALL DISCONNECTS AND COMBINERS SHALL BE SECURED FROM UNAUTHORIZED & UNQUALIFIED PERSONNEL BY LOCK OR LOCATION.
7. ALL EXPOSED CABLES, SHALL BE SECURED WITH MECHANICAL OR OTHER SUNLIGHT RESISTANT MEANS.
8. INVERTER AND BATTERY EQUIPMENT SHALL BE INSTALLED IN A SECURE AREA, SUCH AS A FENCED OR ENCLOSED AREA.
9. MECHANICAL AND ELECTRICAL SUPPORT COMPONENTS, INCLUDING STRUT, SHALL HAVE GALVANIZED FINISH SUITABLE FOR THE ENVIROMENT BEING INSTALLED AND A 25 YEAR SERVICE LIFE OF THE ARRAY FIELD.
10. DRAINAGE AND CONDUIT SEALING SHALL BE PROVIDED AS NECESSARY FOR ALL EXTERIOR EQUIPMENT ENCLOSURES.
11. DAMAGE TO FINISHES SHALL BE PROPERLY RESTORED

WIRING AND WIRING METHODS

1. ALL GROUNDED CONDUCTORS ARE WHITE AND EQUIPMENT GROUNDING CONDUCTORS ARE GREEN OR BARE PER (NEC 200-6 (A), EX 5)
2. ALL D.C. FIELD WIRING SHALL BE TAGGED AT BOTH ENDS WITH PERMANENT WIRE MARKERS
3. LIQUID TIGHT FLEXIBLE METAL CONDUIT IS GENERALLY SUITABLE FOR INSTALLATION IN WET AND DRY LOCATIONS. SHOULD IT BE EMPLOYED, SUPPORTS WILL BE NO MORE THAN 12 INCHES FROM BOXES (JUNCTION BOX, CABINETS, OR CONDUIT FITTING) AND NO MORE THAN 54 INCHES APART PER NEC.
4. **ALL CONDUCTORS SHALL BE COPPER**, UNLESS OTHERWISE NOTED
5. EXTERIOR CONDUIT SHALL BE RMC OR IMC. INTERIOR CONDUIT MAY BE EMT
6. ON LONG STRAIGHT EXPOSED CONDUIT RUNS EXPANSION FITTINGS SHALL BE USED AS FOLLOWS. FIRST EXPANSION FITTING IS NEEDED AFTER 100 FEET OF CONTINUOUS CONDUIT. ANY FOLLOWING EXPANSION FITTINGS CAN BE LOCATED MAX 120 FEET FROM EACH OTHER. WIRE SHOULD BE ARRANGED WITH SLACK AT TERMINATION ALLOWING FOR MOVEMENT.
7. UNDERGROUND CONDUIT SHALL BE SUITABLE FOR DIRECT BURIAL OR CONCRETE ENCASED INSTALLATIONS

GROUNDING

1. ONLY ONE CONNECTION TO DC CIRCUITS (GROUNDED CONDUCTOR) AND ONE CONNECTION TO AC CIRCUITS WILL BE USED FOR SYSTEM GROUNDING (NEC 250-21) REFERENCED TO THE SAME POINT
2. EQUIPMENT GROUNDING CONDUCTORS AND SYSTEM GROUNDING CONDUCTORS WILL HAVE AS SHORT A DISTANCE TO GROUND AS POSSIBLE AND A MINIMUM NUMBER OF BENDS
3. NON-CURRENT CARRYING METAL PARTS SHALL BE CHECKED FOR PROPER GROUNDING; NOTING THAT TERMINAL LUGS BOLTED ON AN ENCLOSURE'S FINISHED SURFACE MAY BE INSULATED BECAUSE OF PAINT/FINISH. PAINT/FINISH AT POINT OF CONTACT SHALL BE PROPERLY REMOVED.
4. MODULES SHALL BE GROUNDED WITH EQUIPMENT GROUNDING CONDUCTOR USING THE LISTED GROUNDING POINT AND MATERIAL FIT FOR THIS PURPOSE. GROUND LUGS SHALL BE RATED FOR OUTDOOR USE.
5. EXACT LOCATION OF GROUND RODS AND EQUIPMENT RODS AND EQUIPMENT SHALL BE DETERMINED IN FIELD. AVOID EXISTING UNDERGROUND UTILITIES.
6. INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE SECTION 250 AND 690 AND MEC AMENDMENTS.
7. BOND GEC CONDUCTORS TO REBAR IN CONCRETE STRUCTURES USING A CROSBY CLAMP OR APPROVED EQUIVELENT. NO CAD-WELDING OF COLUMN ANCHOR BOLTS OR FOUNDATION REBARS SHALL BE ALLOWED. ALL WELDED CONNECTIONS SHALL BE MADE USING SEPARATE GROUNDING RODS AND BOLTS TO FACILITATE WELDING. GROUNDING BOLTS OR RODS EXPOSED TO THE WEATHER SHALL BE GALVANIZED.
8. BATTERY SYSTEM TO BE CONNECTED TO THE EXISTING GROUNDING ELECTRODE SYSTEM WITH AN IMPEDANCE NOT TO EXCEED 5 OHMS.
9. FOLLOW NEC SECTION 250.64 FOR CONNECTING THE PV SYSTEM TO THE EXISTING ELECTRODE GROUNDING SYSTEM (MINIMIZE BENDS, USE SHORTEST PATH ETC).

DISCONNECTING MEANS

1. MEANS SHALL BE PROVIDED TO DISCONNECT ALL CURRENT CARRYING CONDUCTORS OF THE BATTERY POWER SOURCE FROM ALL OTHER CONDUCTORS IN THE BUILDING.
2. THE GROUNDED CONDUCTOR MAY HAVE A BOLTED OR TERMINAL DISCONNECTING MEANS TO ALLOW MAINTENANCE OR TROUBLESHOOTING BY QUALIFIED PERSONNEL.
3. THE DISCONNECTING MEANS SHALL NOT BE REQUIRED TO BE SUITABLE AS SERVICE EQUIPMENT AND SHALL BE RATED IN ACCORDANCE WITH SECTION 690.15.

DISCONNECTION OF BATTERY EQUIPMENT

1. MEANS SHALL BE PROVIDED TO DISCONNECT EQUIPMENT SUCH AS INVERTERS, AND THE LIKE FROM ALL UNGROUNDED CONDUCTORS OF ALL SOURCES. IF THE EQUIPMENT IS ENERGIZED FROM MORE THAN ONE SOURCE, THE DISCONNECTING MEANS SHALL BE GROUPED AND IDENTIFIED.
2. ALL DISCONNECTS AND COMBINERS SHALL BE SECURED FROM UNAUTHORIZED AND UNQUALIFIED PERSONNEL BY EITHER LOCK OR LOCATION.

MARKINGS

1. ALL INTERACTIVE SYSTEM POINTS OF INTERCONNECTION WITH OTHER SOURCES SHALL BE MARKED AT AN ACCESSIBLE LOCATION AT THE DISCONNECTION MEANS.
2. A PERMANENT PLAQUE OR DIRECTORY SHALL BE PROVIDED IDENTIFYING THE LOCATION OF THE SERVICE DISCONNECTION MEANS AND THE BATTERY SYSTEM DISCONNECTION MEANS, IF NOT LOCATED AT THE SAME LOCATION.
3. BATTERY SHALL BE MARKED TO IDENTIFY DEVICE RATINGS, AND SPECIFICATIONS FOR VOLTAGES, CURRENTS, AND POWER.
4. SEE DRAWING **PV701** FOR WARNING LABELS.
5. ARC FLASH WARNINGS SHALL BE PROVIDED PER NEC 110.16

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KEY PLAN

PLAN NORTH TRUE NORTH

22417
Exp. 9/30/2026
Electrical
STATE OF CALIFORNIA
5/1/2026

CLIENT
NCOE

PROJECT NUMBER
250118

DATE Wednesday, April 29, 2026

DRAWN BY: MJ CHKED BY: CW,HS, TP

REVISIONS

#	DESCRIPTION	DATE
-	DESIGN DEVELOPMENT SET	04/23/2025
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1	BESS UPDATE	01/28/2026
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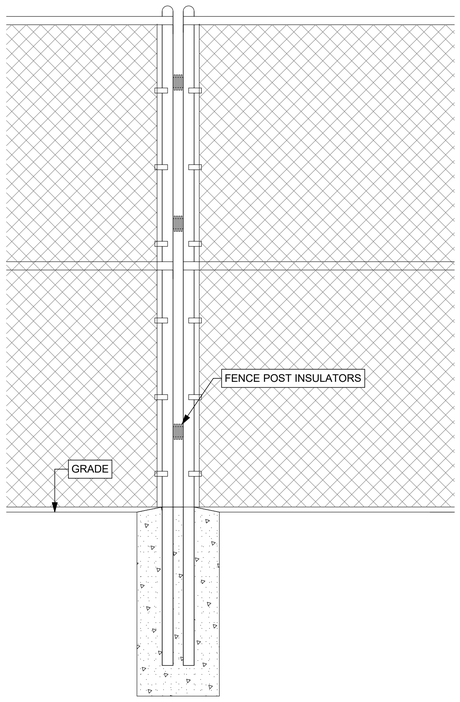
-	PBK EDITS	04/29/2026

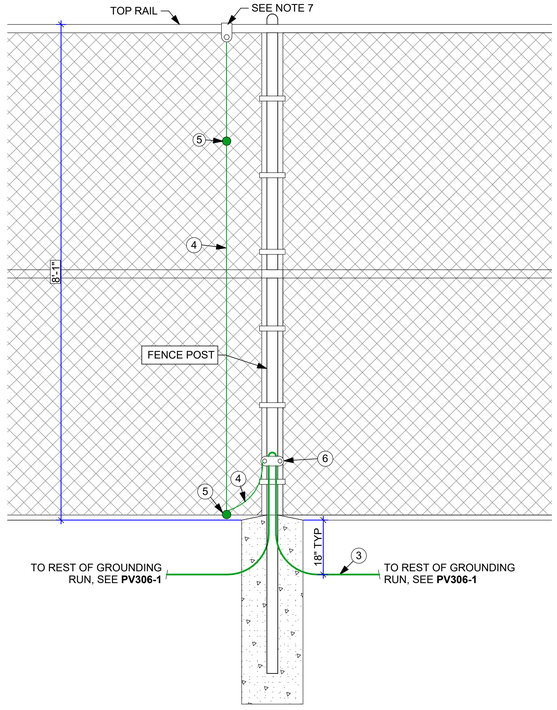
DESIGN DEVELOPMENT

PV SYSTEM
NOTES - CC

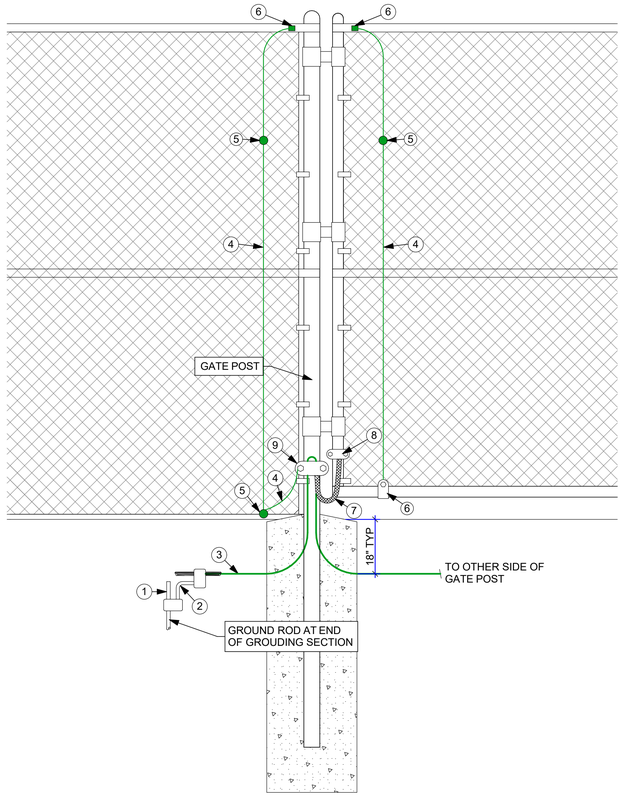
PV003



1 FENCE POST INSULATORS 0 6" 1' 2'



2 FENCE POST BONDING DETAIL 0 6" 1' 2'

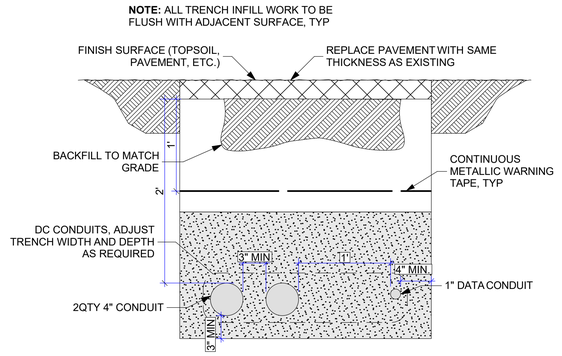


3 FENCE GATE BONDING DETAIL 0 6" 1' 2'

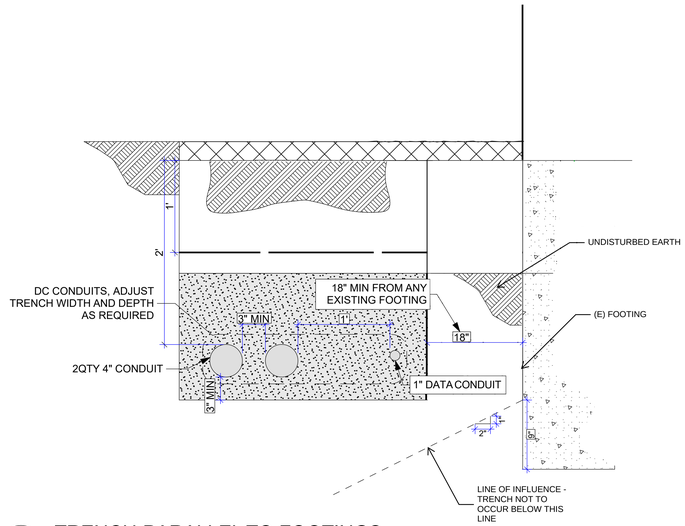
GROUNDING DETAIL MATERIAL LIST			
ITEM NO.	MANUF.	CAT. NO.	DESCRIPTION
1	ERICO	613400	3/4" X 10' COPPER CLAD GROUND ROD
2	BURNDY	YGLR29C34	3/0 TO 3/4" GROUND ROD CONNECTOR
3	SERVICE WIRE CO.	BST7S3/0	#6 BARE COPPER CONDUCTOR
4	SERVICE WIRE CO.	BSOS4	#4 BARE COPPER GROUND WIRE
5	BURNDY	-	FENCE FABRIC GROUNDING CLAMP, #8 - 2/0 WIRE RANGE
6	ILSCO	GBL-4DBT	TIN PLATED COPPERY LAY-IN-LUG, #4-14 WIRE RANGE
7	BURNDY	BG24	TYPE B FLEXIBLE BRAID
8	BURNDY	-	F4 BAR STRAP, BRAID OR CABLE TUBE
9	BURNDY	GD1829	2 PARALLEL CABLES TO TUBE, 2/0 - 250kcmil WIRE RANGE

FENCE GROUNDING NOTES:

1. THIS DRAWING IS PROVIDED FOR INFORMATION ONLY. FOLLOW THE CIVIL PLANS FOR FENCE DESIGN AND INSTALLATION. CONTRACTOR TO VERIFY ALL LOCATIONS, UTILITIES, CONFLICTS AND OTHER SITE CONDITIONS REQUIRED FOR COMPLETE INSTALLATION AND TESTING OF SYSTEM.
2. ALL PRODUCTS FURNISHED SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF OSHA, NEC, NEMA, ANSI AND UL IN REGARDS TO MATERIALS, CONSTRUCTION, INSTALLTION AND TESTING.
3. CONTRACTOR SHALL NOTIFY OWNER AND DIG SAFE PRIOR TO ANY EXCAVATION
4. CONTRACTOR TO RESTORE ANY DISTURBED SURFACE PRIOR TO COMPLETION.
5. WHERE FENCE IS LESS THAN 16' FROM THE MODULES, 20' FROM THE OVERHEAD CIRCUIT OR 50' FROM THE UTILITY RIGHT OF WAY, EXTEND THE GROUNDING ELECTRODE SYSTEM BY INSTALLING AN ADDITIONAL GROUND NO MORE THAN 50' FROM THIS LOCATION.
6. GROUND ROD SHALL BE INSTALLED AT THE POINT WHERE THE FENCE IS CLOSEST TO THE EQUIPMENT PAD AND AN ADDITIONAL ROD SHALL BE INSTALLED AT EACH 160' INTERVAL OF GROUNDING CONDUCTOR.
7. CONNECT ALL CORNER POSTS, TOP RAIL, BARBED WIRE, FENCE BOTTOM TENSION WIRE AND FENCE FABRIC TO THE GROUNDING SYSTEM EVERY 160' AS SHOWN.
8. BURIED GROUNDING CONDCUTOR TO EXTEND ACROSS GATE OPENING AND BOND GATE POSTS TOGETHER.
9. ALL GROUNDING MATERIAL SHALL BE LISTED FOR THE PURPOSE.
10. ALL GROUNDING AND BONDING SHALL BE PERFORMED IN ACCORDANCE WITH THE RELEVANT VERSION OF THE NATIONAL ELECTRIC SAFETY CODE AND ALL OTHER APPLICABLE STATE OR LOCAL CODES AND STANDARDS.
11. REFER TO CIVIL / STRUCTURAL DRAWINGS FOR FOUNDATION DETAILS.
12. MANUFACTURERS AND CAT. #'S ARE FOR REFERENCE ONLY. ENGINEER APPROVED EQUALS WILL BE ACCEPTABLE.



4 TRENCH DETAILS 0 6" 12" 18"



5 TRENCH PARALLEL TO FOOTINGS

TRENCH NOTES:

1. SEPARATION BETWEEN CONDUIT WITH SHIELDED COMMUNICATION WIRING AND CONDUIT WITH LOW VOLTAGE POWER CONDUCTORS MAY BE REDUCED TO 3" MINIMUM. POWER AND DATA CONDUITS MAY CROSS THE 1' MIN. SEPARATION MAY BE REDUCED FOR TRENCH SECTIONS LESS THAN 10' AND NEAR EQUIPMENT STUB-UPS.
2. THE TRENCHES AS SHOWN REPRESENT ONE POSSIBLE CONFIGURATION. CONDUITS MAY BE DEEPER PROVIDED THAT THE MINIMUM BURIAL DEPTHS AND SPACINGS SHOWN HERE ARE MET
3. REFER TO NEC 300.5 MINIMUM COVERAGE REQUIREMENTS
4. KEEP TRENCHING THE MIN. REQUIRED DISTANCE FROM RACK FOUNDATIONS PER MANUFACTURER SPECIFICATIONS AND MANUAL.
5. DETAILS SHOWN ARE DIAGRAMATIC. REFER TO DRAWINGS FROM DIRECTIONAL BORING CONTRACTOR.
6. UNLESS SPECIFIED OTHERWISE COMPACT BACKFILL SOIL TO 90% STANDARD PROCTOR DENSITY AND 95% UNDER ROADS. SOILS SHALL BE MOISTURE CONDITIONED AS REQUIRED TO ACHIEVE PROPER COMPACTION.
7. HAND-COMPACT IN 4" LIFTS, OR MECHANICALLY IN 9" LIFTS.
8. TRENCHES GREATER THAN 18" IN WIDTH SHALL CONTAIN ADDITIONAL WARNING TAPE. NO MORE THAN 12" INCHES BETWEEN TAPE.
9. TRENCH SIZES AND CONDUIT COUNT MAY VARY BUT CABLE/TRENCH SPACING SHALL REMAIN CONSTANT.
10. BACKFILL SHALL BE PER GEOTECH STUDY (BY OTHERS). IN PARTICULAR, BACKFILL MATERIALS SHALL BE FREE OF ROCKS AND DEBRIS.
11. DIRECTIONAL BORE WILL BE ROUTED UNDER WETLAND PENDING INPUT FROM CONSERVATION COMMISSION. DIRECTIONAL BORE WILL CONTINUE PAST WETLAND TO EXTERNAL EQUIPMENT LOCATIONS.
12. DRILLING PITS FOR DIRECTIONAL BORE WILL CONVERT TO HANDHOLES FOR CONNECTING BESS EQPT TRENCHS TO DIRECTIONAL BORES.
13. TRENCHS TO COMPLY WITH CBC 1809A.14 WHERE PARALLEL TO FOOTINGS. CONDUITS WILL NOT PASS UNDER FOOTINGS.

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CAMILLE CREEK COMMUNITY SCHOOL - BATTERIES ENCLOSURE
NAPA COUNTY OFFICE OF EDUCATION
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DESIGN DEVELOPMENT

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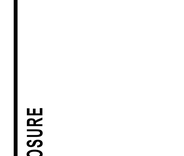
KEY PLAN
PLAN NORTH
TRUE NORTH



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250118
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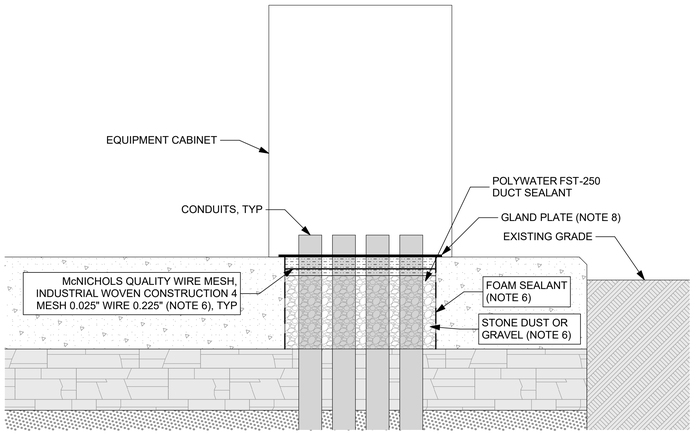
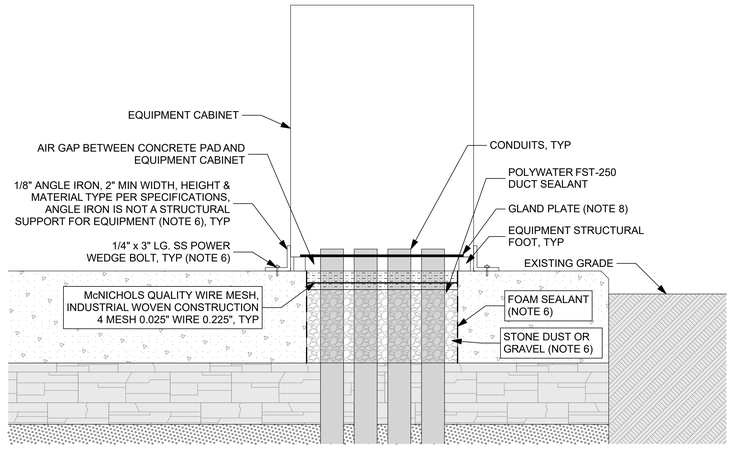
DESIGN DEVELOPMENT

TRENCH & FENCE GROUND DETAILS - CC

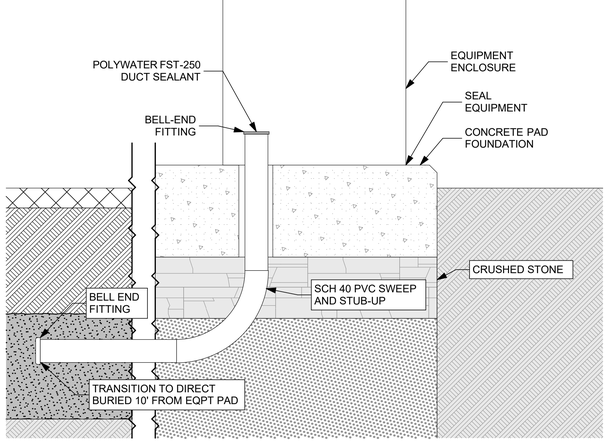
PV301



1 CONDUIT ENTRANCE, FLUSH EQPT MOUNTING 0 6" 12" 18"



2 CONDUIT ENTRANCE, RAISED EQPT MOUNTING 0 6" 12" 18"



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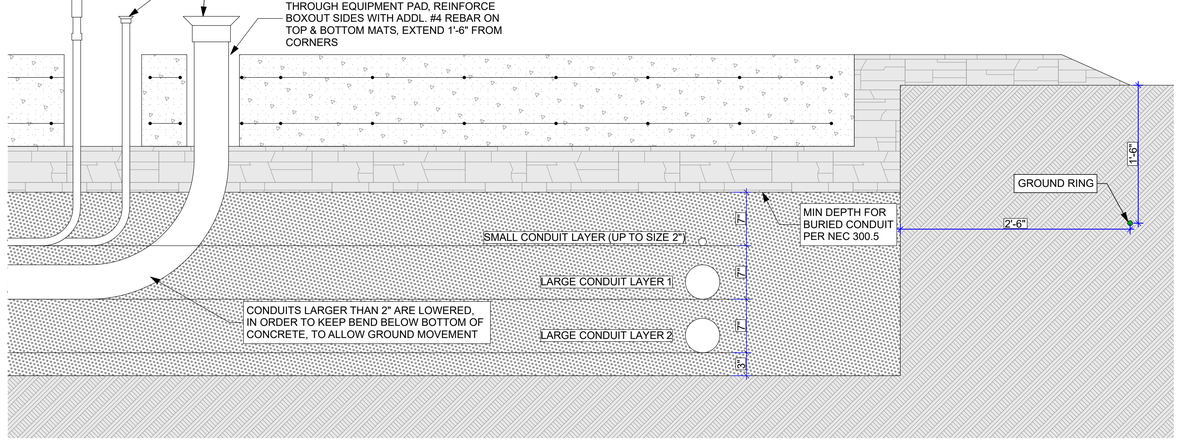

4 EQUIPMENT PAD DETAIL 0 6" 12" 18"

NOTES:

1. CONDUIT ENTRANCE DETAILS ARE DIAGRAMMATIC PURPOSES ONLY.
2. LOCATIONS, SIZE AND QUANTITY OF CONDUITS BENEATH SLABS AND PADS SHALL BE COORDINATED IN FIELD PER ELECTRICAL SCHEMATICS AND NEC REQUIREMENTS.
3. ALL CONDUIT ENDS SHALL BE SEALED.
4. CONDUITS SHALL ENTER EQUIPMENT THROUGH PAD CUTOUTS.
5. CONDUIT FORMS MUST BE WITHIN EQUIPMENT ACCESS AS SHOWN PER MANUFACTURER SPECIFICATIONS.
6. REFER TO ELECTRICAL SPECIFICATIONS FOR INSTALLATION METHODS AND MATERIAL REQUIREMENTS.
7. CONTRACTOR TO PROVIDE ALL SEALANT MATERIALS.
8. INSTALLATION OF GLAND PLATES REQUIRED, SEE SPECIFICATIONS.

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KEY PLAN

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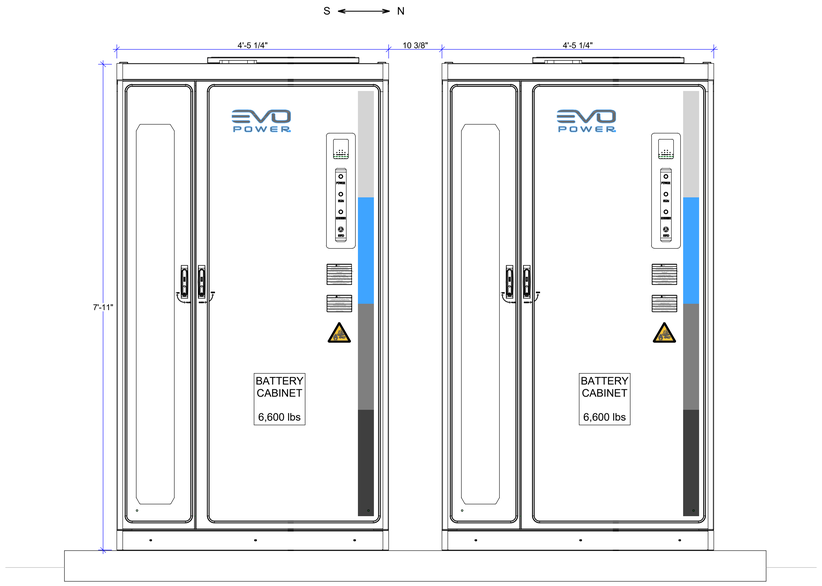
DESIGN DEVELOPMENT

CONDUIT ENTRANCE DETAILS - CC

PV302

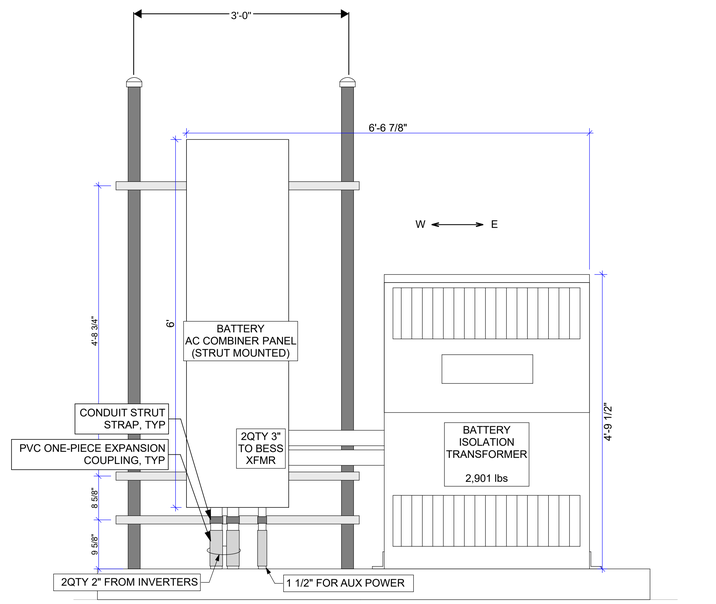
G0.10 - SITE DATA & CODE ANALYSIS INC 1

REFER TO STRUCTURAL SET FOR DESIGN OF ALL EQUIPMENT AND HOUSEKEEPING PAD



1 BESS EQUIPMENT ELEVATION

0 6" 1' 2'



2 BESS EQUIPMENT ELEVATION

0 6" 1' 2'

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DESIGN DEVELOPMENT

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PLAN NORTH

TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
Edward M Portes
Electrical
STATE OF CALIFORNIA

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NCOE

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DESIGN DEVELOPMENT

BESS PADS ELEVATION - CC

PV501

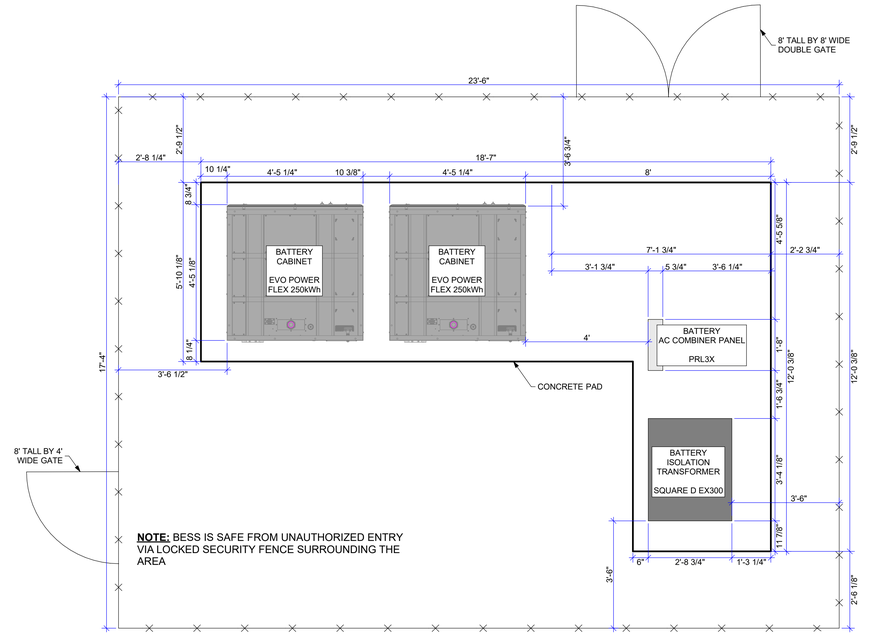
Wednesday, April 29, 2026

G0.10 - SITE DATA & CODE ANALYSIS INC 1

REFER TO STRUCTURAL SET FOR DESIGN OF ALL EQUIPMENT AND HOUSEKEEPING PAD

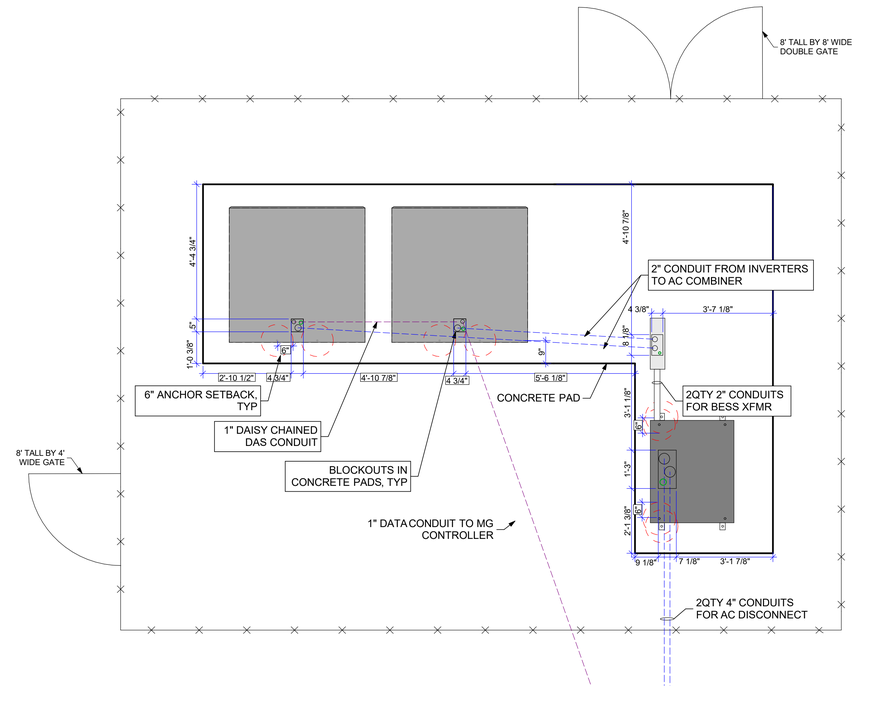
BESS NOTES:

1. CONTRACTOR TO COORDINATE ALL PLANNED CONDUIT ROUTES PRIOR TO INSTALLATION. CONDUIT DETAILS ARE DIAGRAMMATIC ONLY. CONFIRM ALL EQUIPMENT DIMENSIONS AND LOCATIONS OF CONDUIT ENTRY WITH SHOP DRAWINGS WHEN AVAILABLE.
2. LOCATIONS, SIZE AND QUANTITY OF CONDUITS BENEATH SLABS AND PADS SHALL BE COORDINATED IN FIELD PER ELECTRICAL SCHEMATICS AND NEC REQUIREMENTS.
3. ALL CONDUIT ENDS SHALL BE SEALED WITH POLYWATER FST-250 DUCT SEALANT, TYP
4. CONDUITS SHALL ENTER EQUIPMENT THROUGH PAD BLOCKOUTS
5. ALL CONDUITS SCH 40 & SCH 80 PVC
6. FIRE EXTINGUISHER PROVIDED PER CBC 906.1
7. SITE ILLUMINATED PER 110.26,110.34 AND 706



1 BESS EQUIPMENT PAD PLANS

0 1' 2' 4'



2 EQUIPMENT PLANS

0 1' 2' 4'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122376 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/08/2026

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

CAMILLE CREEK COMMUNITY SCHOOL - BATTERIES ENCLOSURE

NAPA COUNTY OFFICE OF EDUCATION
CAMILLE CREEK COMMUNITY SCHOOL

2097 IMOLA AVE. NAPA, CA 94559
PTN : 10280-21 . DSA# 01-122376

DESIGN DEVELOPMENT

solar design associates
HARVARD, MA 01451-0242 tel: 978-456-6855
www.solardesign.com fax: 978-772-9715

KEY PLAN

PLAN NORTH TRUE NORTH

REGISTERED PROFESSIONAL ENGINEER
Edward M Portnoy
22477
Electrical
STATE OF CALIFORNIA

CLIENT
NCOE

PROJECT NUMBER
250118

DATE Wednesday, April 29, 2026

DRAWN BY: MJ CHKED BY: CW,HS, TP

REVISIONS

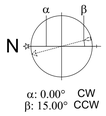
#	DESCRIPTION	DATE
-	DESIGN DEVELOPMENT SET	04/23/2025
-	CONSTRUCTION DOCUMENTS SET	07/03/2025
1	BESS UPDATE	01/28/2026
2	BESS UPDATE	03/19/2026
-	PBK EDITS	04/29/2026

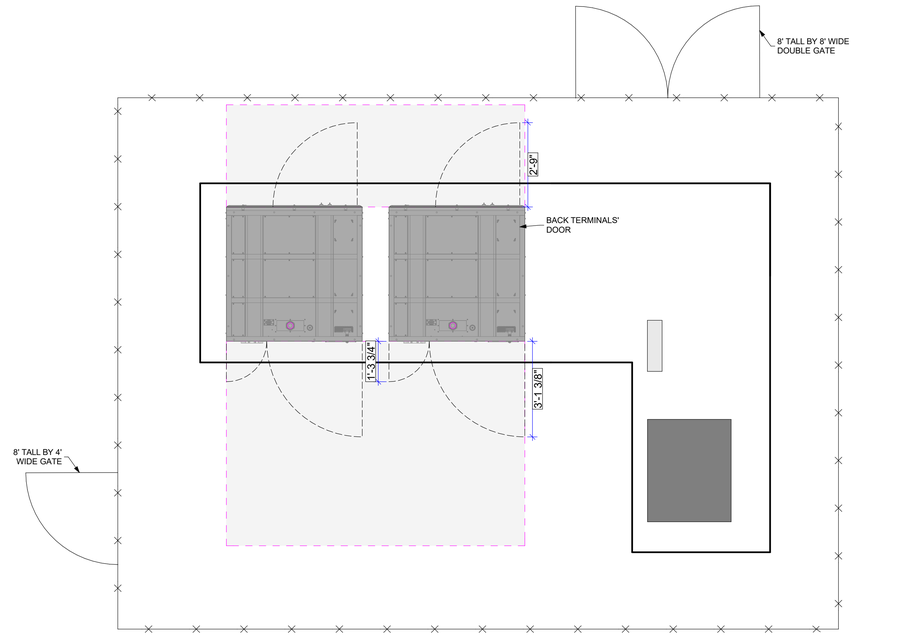
DESIGN DEVELOPMENT

BESS PADS
LAYOUT I - CC

PV502

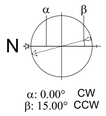
Wednesday, April 29, 2026





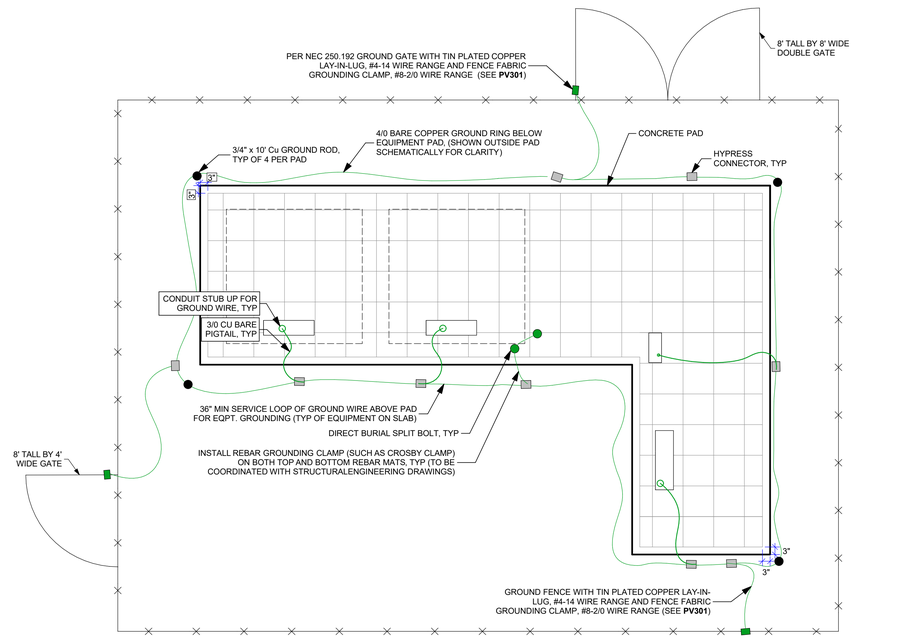
1 EQUIPMENT ENLARGED PLAN VIEW

0 1' 2' 4'



NOTES
STRUCTURAL DESIGN OF PADS BY OTHERS

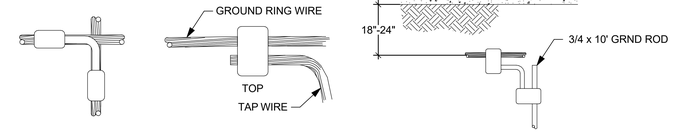
GROUNDING NOTES:
1. ALL GROUNDING MATERIAL SHALL BE LISTED FOR THE PURPOSE.
2. ALL GROUNDING AND BONDING SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT VERSION OF THE NATIONAL ELECTRIC SAFETY CODE AND ALL OTHER APPLICABLE STATE OR LOCAL CODES AND STANDARDS.
3. REFER TO CIVIL/STRUCTURAL DRAWINGS FOR FOUNDATION DETAILS.



2 BESS EQUIPMENT PAD GROUNDING

0 1' 2' 4'

REFER TO STRUCTURAL SET FOR DESIGN OF ALL EQUIPMENT AND HOUSEKEEPING PAD



T-BARE CABLE CONNECTION | TAP CABLE CONNECTION | ROD TO CABLE CONNECTION

3 GROUNDING DETAIL

ARCHITECT PBK Architects, Inc.
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FOLSOM
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916-355-9922

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DESIGN DEVELOPMENT

solar design associates
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www.solardesign.com fax: 978-772-9715

KEY PLAN

PLAN NORTH | TRUE NORTH

CLIENT
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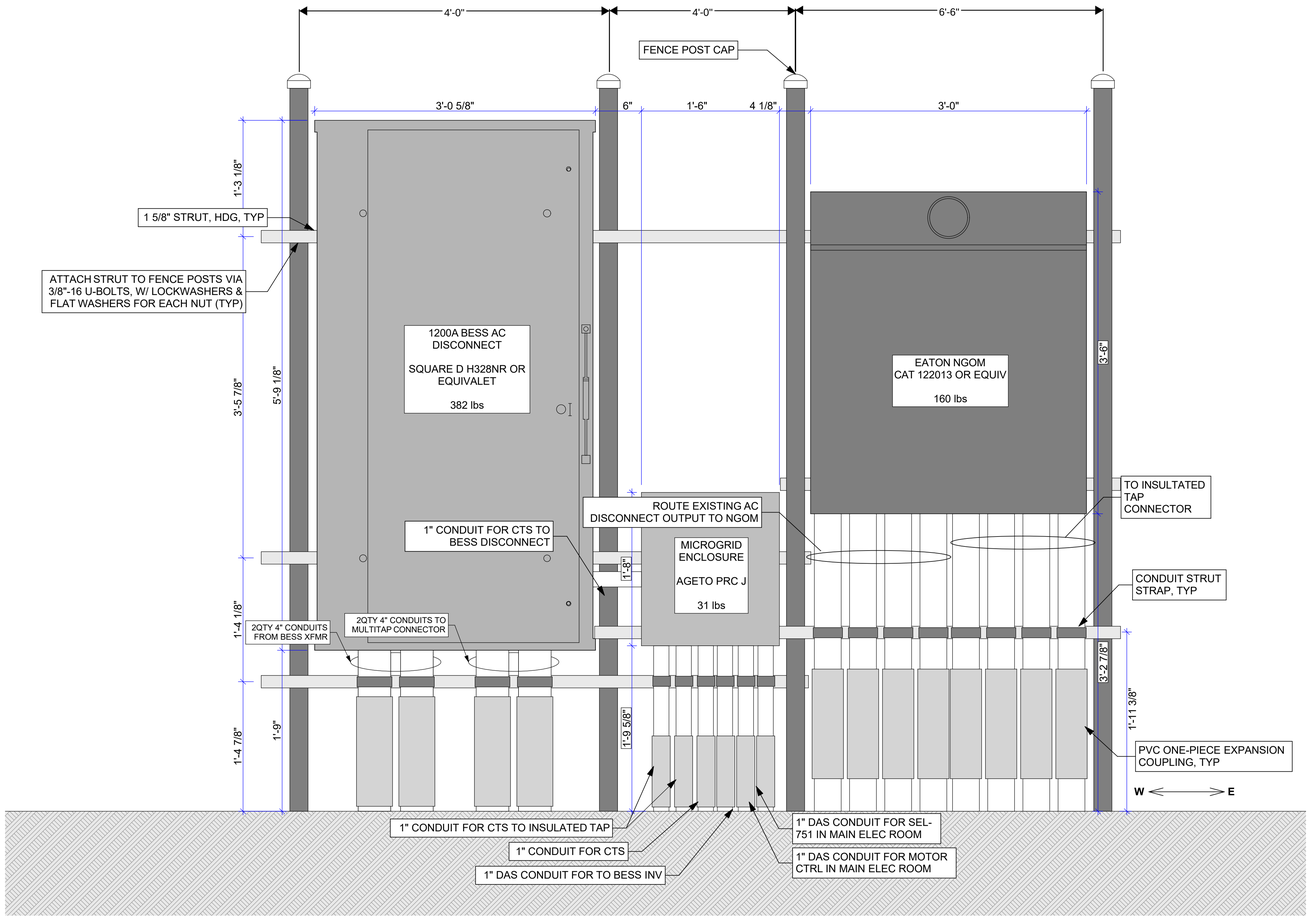
DESIGN DEVELOPMENT

BESS PADS
LAYOUT II - CC

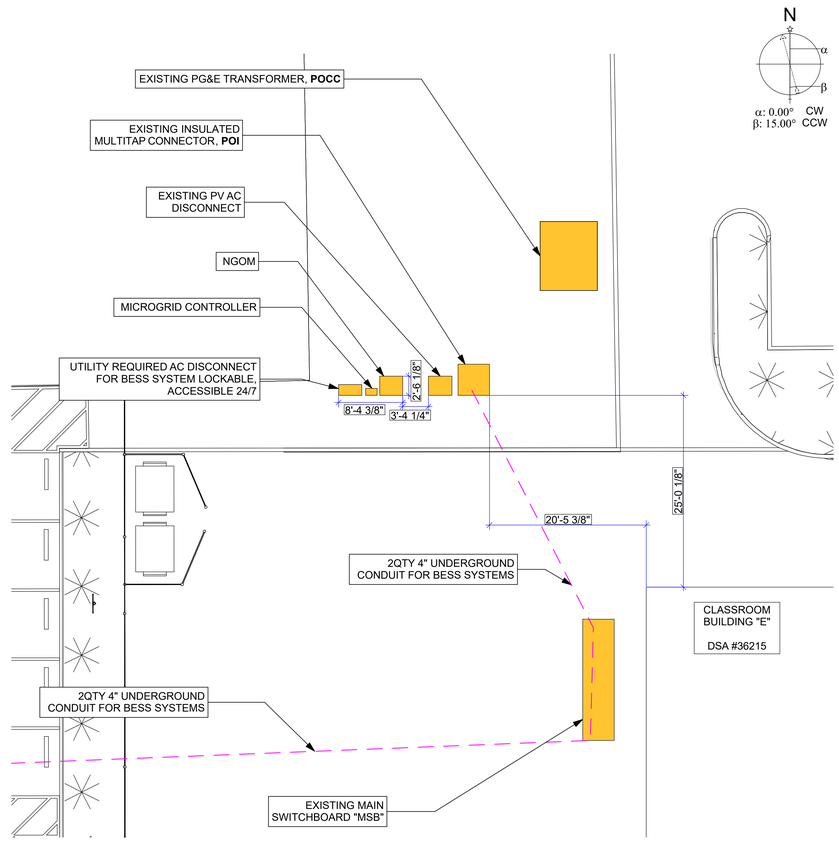
PV503

NOTE:
EQUIPMENT LAYOUT IS DIAGRAMMATIC. FINAL PV EQUIPMENT LOCATION AND LAYOUT WILL BE DETERMINED VIA COORDINATION BETWEEN TRADES AND SPACE AVAILABLE



1 DISCONNECT AND NGOM ELEVATIONS

0 6" 12" 18"



2 NEW EQUIPMENT ENLARGED PLAN VIEW

0 4' 8' 16'

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DESIGN DEVELOPMENT

EQUIPMENT ELEVATION - CC

PV504

G0.10 - SITE DATA & CODE ANALYSIS.INC 1

AC Wire and Conduit Schedule - CC

Inverters to BESS Panel

Output Designation	SLD Tag ID	AC Voltage (V) L-L	Max Output Current (A)	Design Current (A)	Distance to Panelboard (ft)	OCPD (A)	EGC	Conductor Size	Neutral Size	Wire Type	Set quantity	# of Wires Per Set	# of Current Carrying Conductors Per Set	Temp Derate	*Bundling Derate	Cum. 75 C Terminals / OCPD check	Cum. 90C Wire + Derate Check	Resistivity (Ohms/1000ft)	Current Per Set (A)	AC Voltage Drop (V)	% Voltage Drop	Conduit Type	Conduit Sets	Conduit Size	Conduit Fill
INV 1	1	480	151.0	188.8	20	200	#6	3/0	N/A	Cu THWN-2	1	3+G	3	0.96	1.0	200 > 188.8	216 > 151	0.0799	151.00	0.418	0.087%	PVC (SCH 40 & 80)	1	2"	33.40%
INV 2	1	480	151.0	188.8	20	200	#6	3/0	N/A	Cu THWN-2	1	3+G	3	0.96	1.0	200 > 188.8	216 > 151	0.0799	151.00	0.418	0.087%	PVC (SCH 40 & 80)	1	2"	33.40%

BESS Panel to XFMR

Output Designation	SLD Tag ID	AC Voltage (V) L-L	Max Output Current (A)	Design Current (A)	Distance to Eqpt (ft)	OCPD (A)	EGC	Conductor Size	Neutral Size	Wire Type	Set quantity	# of Wires Per Set	# of Current Carrying Conductors Per Set	Temp Derate	Bundling Derate	Cum. 75 C Terminals / OCPD check	Cum. 90C Wire + Derate Check	Resistivity (Ohms/1000ft)	Current Per Set (A)	AC Voltage Drop	% Voltage Drop	Conduit Type	Conduit Sets	Conduit Size	Conduit Fill
BESS PANEL	2	480	302.0	377.5	10	400	#3	#3/0	N/A	Cu THWN-2	2	3+G	3	0.96	1.00	400 > 377.5	432 > 302	0.0799	151.00	0.209	0.044%	PVC (SCH 40 & 80)	2	2"	31.35%

XFRM TO AC DISCONNECT

Output Designation	SLD Tag ID	AC Voltage (V) L-L	Max Output Current (A)	Design Current (A)	Distance to Eqpt (ft)	OCPD (A)	EGC**	Conductor Size	Neutral Size	Wire Type	Set quantity	# of Wires Per Set	# of Current Carrying Conductors Per Set	Temp Derate	Bundling Derate	Cum. 75 C Terminals / OCPD check	Cum. 90C Wire + Derate Check	Resistivity (Ohms/1000ft)	Current Per Set (A)	AC Voltage Drop	% Voltage Drop	Conduit Type	Conduit Sets	Conduit Size	Conduit Fill
XFMR	3	208	696.9	871.2	360	900	#2/0	700 kcmil	700 kcmil	Cu THWN-2	2	3+N+G	3	0.96	1.00	920 > 871.2	806.4 > 696.9	0.0219	348.5	4.758	2.288%	PVC (SCH 40 & 80)	2	4"	37.11%
																		Worst Case AC Voltage Drop Scenario			2.418%				

* per 2023 NEC 310.15(C)(1)

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DESIGN DEVELOPMENT

AC WIRE & COND SCHED - CC

PV601

SITE CONDITIONS

LOCATION:	NAPA, CA	
MAX AMBIENT TEMP:	31	°C
MIN EXPECTED TEMP:	-4	°C

BATTERY INVERTER OUTPUT (EVO POWER FLEX SERIES 125kW)

Max Rated Power	125	kWac
Max Output Power	125	kWac
Operating Voltage (Line-to-Line):	480	Vac 3-PHASE
Max Current:	151	Aac
Output Frequency:	60	Hz

TABLE 1: MICROGRID SYSTEM EQUIPMENT LIST

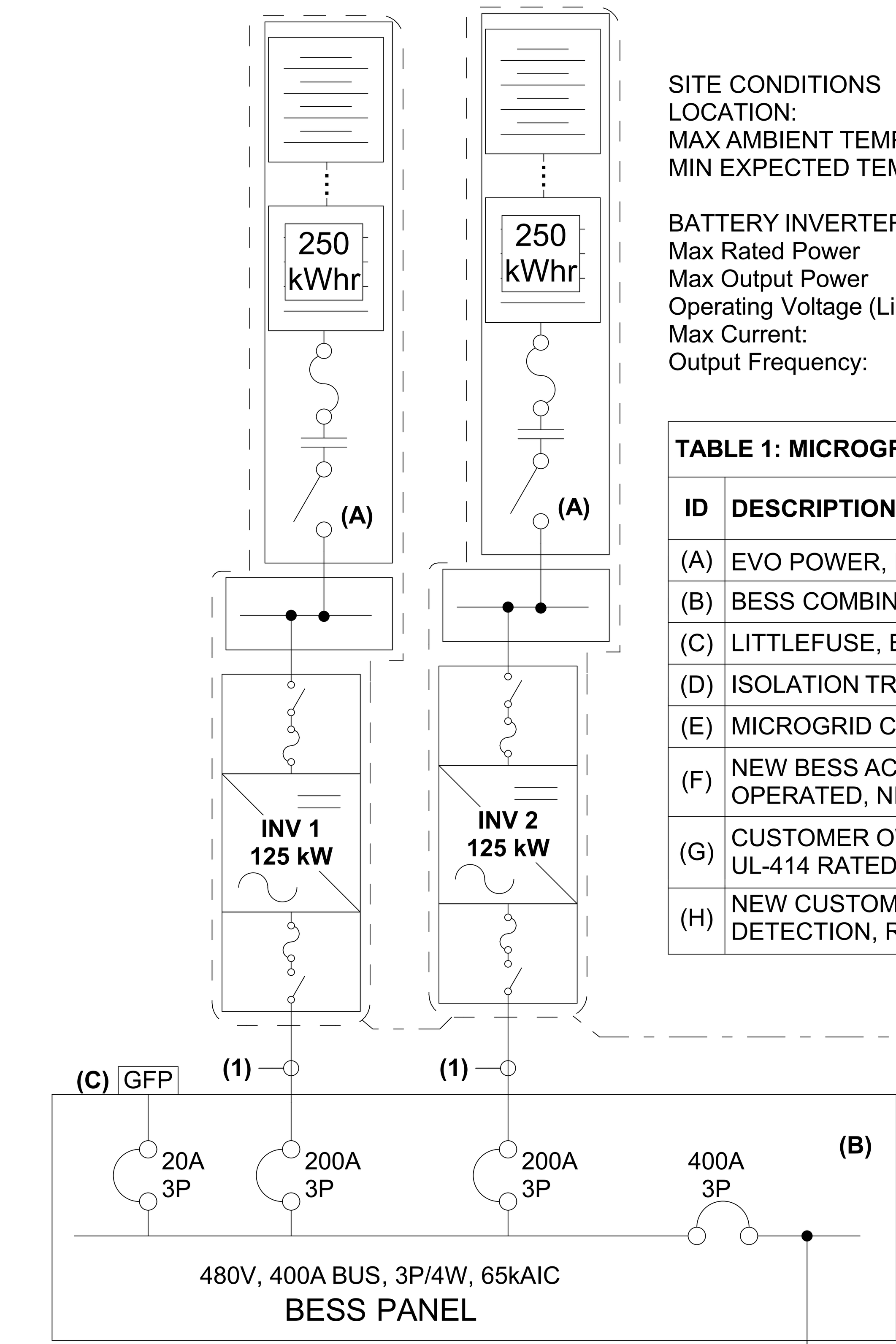
ID	DESCRIPTION	QTY
(A)	EVO POWER, FLEX SERIES 250kWhr, BATTERY CONTAINER W/INEGRATED 125kWac INVERTER, 151A MAX OUTPUT, 480VAC 3P/4W, NEMA 3R	2
(B)	BESS COMBINER PANELBOARD, 400A, 400A MAIN BREAKER, 480VAC, 3 PHASE, 4 WIRE, NEMA 3R	1
(C)	LITTLEFUSE, EL3100, GROUND-FAULT, GROUND-FAULT & PHASE-VOLTAGE INDICATOR PROTECTION RELAY, MOUNTED IN PANEL	1
(D)	ISOLATION TRANSFORMER , 300kVA, 480Vac Δ TO 120/208Vac WYE, NEMA3R, SQUARE D, EX300 OR EQUIVALENT	1
(E)	MICROGRID CONTROLLER FOR PV/BESS SYSTEM, WITH COMMUNICATION TO UTILITY. UTILITY TO SPECIFY REQUIREMENTS, AGETO ARC OR EQUIVALENT	1
(F)	NEW BESS AC DISCONNECT, HEAVY DUTY, 120/208Vac, 1200A BLADE WITH 1200A FUSES, CONTINUOUS DUTY RATED, LOCKABLE, VISIBLE BREAK, GANG OPERATED, NEMA3R, ACCESSIBLE 24/7/365, SQUARED H328NR OR EQUIVALENT	1
(G)	CUSTOMER OWNED METER SOCKET/CT ENCLOSURE COMBINATION CABINET FOR PG&E NET GENERATION OUTPUT METER, CL20 RATED, 600V, 13-JAW, UL-414 RATED, TEST SWITCH, 800A CONTINUOUS DUTY RATED CT MOUNTS, THREE CONNECTORS PER PHASE, EATON CAT. #122013 OR EQUIV.	1
(H)	NEW CUSTOMER OWNED SEL-751 RELAY AND UPS, FOR USE AS SITE LOAD MONITORING, PCC DIRECTIONAL OUTPUT, AND RETURN TO SERVICE DETECTION, RATIOS AS NOTED	1

TABLE 3: TRIP LEVEL SETTINGS TO STOP BESS INVERTER V_{NOM} **= 480V L-L**

DESCRIPTION	SET POINT	TOTAL CLEAR TIME
LINE UNDER VOLTAGE (FAST)	240.0 V	1.1 SEC
LINE UNDER VOLTAGE (SLOW)	422.4 V	3.0 SEC
LINE OVER VOLTAGE (SLOW)	580.0 V	2.0 SEC
LINE OVER VOLTAGE (FAST)	576.0 V	0.16 SEC
SELF PROTECTIVE OVER VOLTAGE	672.0 V	0.001 SEC
LINE UNDER FREQUENCY (FAST)	56.5 Hz	0.16 SEC
LINE UNDER FREQUENCY (SLOW)	58.5 Hz	300 SEC
LINE OVER FREQUENCY (SLOW)	61.2 Hz	300 SEC
LINE OVER FREQUENCY (FAST)	62.0 Hz	0.16 SEC
UTILITY RESTORATION DETECTION	456.0V - 504.0V	300 SEC
	59.5 Hz - 60.5 Hz	

INVERTER TRIP LEVEL SETTINGS NOTES:

1. INVERTER TOTAL CLEARING TIME INCLUDES MECHANICAL OPERATION TIME OF 3 CYCLES (0.05s)
2. UTILITY RESTORATION DECTECTION WILL USE THE FACTORY SETTINGS FOR A UL 1741 SB CERTIFIED INVERTER.
3. INVERTER LROV SETTING SHALL BE SET TO 1.4pu VOLTAGE AT 1ms.



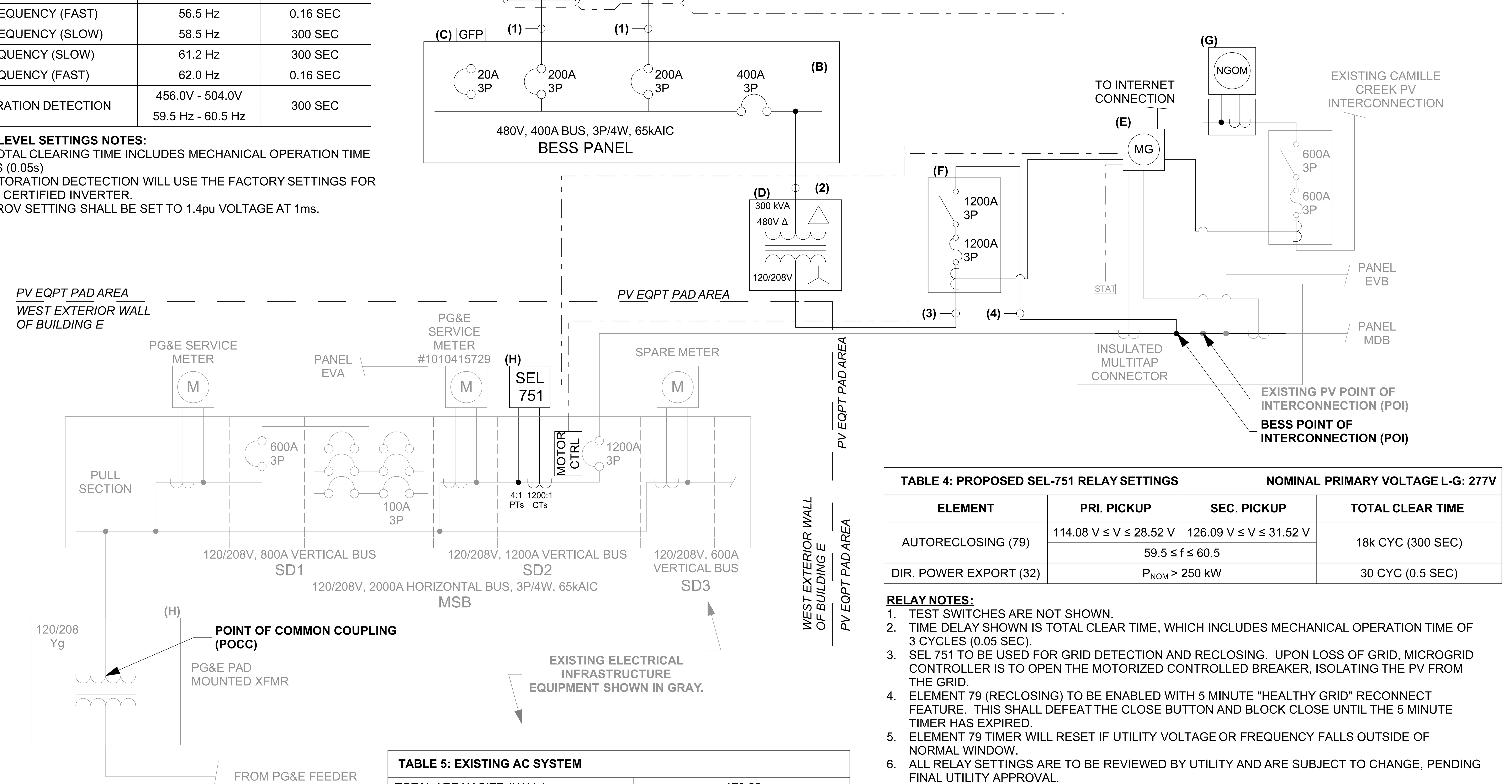


TABLE 4: PROPOSED SEL-751 RELAY SETTINGS **NOMINAL PRIMARY VOLTAGE L-G: 277V**

ELEMENT	PRI. PICKUP	SEC. PICKUP	TOTAL CLEAR TIME
AUTORECLOSING (79)	114.08 V ≤ V ≤ 28.52 V	126.09 V ≤ V ≤ 31.52 V	18k CYC (300 SEC)
	59.5 ≤ f ≤ 60.5		
DIR. POWER EXPORT (32)	P_{NOM} > 250 kW		30 CYC (0.5 SEC)

RELAY NOTES:

1. TEST SWITCHES ARE NOT SHOWN.
2. TIME DELAY SHOWN IS TOTAL CLEAR TIME, WHICH INCLUDES MECHANICAL OPERATION TIME OF 3 CYCLES (0.05 SEC).
3. SEL 751 TO BE USED FOR GRID DETECTION AND RECLOSING. UPON LOSS OF GRID, MICROGRID CONTROLLER IS TO OPEN THE MOTORIZED CONTROLLED BREAKER, ISOLATING THE PV FROM THE GRID.
4. ELEMENT 79 (RECLOSING) TO BE ENABLED WITH 5 MINUTE "HEALTHY GRID" RECONNECT FEATURE. THIS SHALL DEFEAT THE CLOSE BUTTON AND BLOCK CLOSE UNTIL THE 5 MINUTE TIMER HAS EXPIRED.
5. ELEMENT 79 TIMER WILL RESET IF UTILITY VOLTAGE OR FREQUENCY FALLS OUTSIDE OF NORMAL WINDOW.
6. ALL RELAY SETTINGS ARE TO BE REVIEWED BY UTILITY AND ARE SUBJECT TO CHANGE, PENDING FINAL UTILITY APPROVAL.
7. POWER SUPPLY SCHEMATIC WILL BE SUBMITTED FOR APPROVAL PRIOR TO WITNESS TEST.
8. INTERCONNECTION INTERRUPTING DEVICE SHALL HAVE DC TRIP COILS AND TRIPPING ENERGY SHALL BE DERIVED FROM 24VDC UPS-STYLE STATION BATTERY TO ALLOW FOR APPROXIMATELY 8 HR RUN TIME.
9. ELEMENT 32 RELAY WILL BE SET TO 250kW, AT NOMINAL VOLTAGE. THE DIRECTIONALITY WILL BE SET FOR ENERGY EXPORT

TABLE 5: EXISTING AC SYSTEM

TOTAL ARRAY SIZE (kWdc)	178.20
MODULE MODEL	BOVIET BVM7612M-550-H-HC-BF-DG
TOTAL NUMBER OF MODULES IN ARRAY	324
MODULE WATTAGE	550
INVERTER MODEL	(6) CPS SCA25KTL-DO/US-208 [208V]
TOTAL SYSTEM SIZE (kWac)	150.00

1 BESS SINGLE LINE WITH 250.00 kWac (500.00 kWhr) OF BATTERY STORAGE - OPTION 1

ARCHITECT PBK Architects, Inc.
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Folsom, CA 95630-8315
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DESIGN DEVELOPMENT

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KEY PLAN

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CLIENT	NCOE
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DESIGN DEVELOPMENT

SINGLE LINE - CC - OPT 1

PV602

SITE CONDITIONS

LOCATION:	NAPA, CA	
MAX AMBIENT TEMP:	31	°C
MIN EXPECTED TEMP:	-4	°C

BATTERY INVERTER OUTPUT (EVO POWER FLEX SERIES 125kW)

Max Rated Power	125	kWac
Max Output Power	125	kWac
Operating Voltage (Line-to-Line):	480	Vac 3-PHASE
Max Current:	151	Aac
Output Frequency:	60	Hz

TABLE 1: MICROGRID SYSTEM EQUIPMENT LIST

ID	DESCRIPTION	QTY
(A)	EVO POWER, FLEX SERIES 250kWhr, BATTERY CONTAINER W/INEGRATED 125kWac INVERTER, 151A MAX OUTPUT, 480VAC 3P/4W, NEMA 3R	2
(B)	BESS COMBINER PANELBOARD, 400A, 400A MAIN BREAKER, 480VAC, 3 PHASE, 4 WIRE, NEMA 3R	1
(C)	LITTLEFUSE, EL3100, GROUND-FAULT, GROUND-FAULT & PHASE-VOLTAGE INDICATOR PROTECTION RELAY, MOUNTED IN PANEL	1
(D)	ISOLATION TRANSFORMER , 300kVA, 480Vac Δ TO 120/208Vac WYE, NEMA3R, SQUARE D, EX300 OR EQUIVALENT	1
(E)	MICROGRID CONTROLLER FOR PV/BESS SYSTEM, WITH COMMUNICATION TO UTILITY. UTILITY TO SPECIFY REQUIREMENTS, AGETO ARC OR EQUIVALENT	1
(F)	NEW BESS AC DISCONNECT, HEAVY DUTY, 120/208Vac, 1200A BLADE WITH 1200A FUSES, CONTINUOUS DUTY RATED, LOCKABLE, VISIBLE BREAK, GANG OPERATED, NEMA3R, ACCESSIBLE 24/7/365, SQUARED H328NR OR EQUIVALENT	1
(G)	INTERLOCKED CONTACTOR ENCLOSURE, GRID ISOLATION DEVICE, 120/208V, NEMA3R	1
(H)	CUSTOMER OWNED METER SOCKET/CT ENCLOSURE COMBINATION CABINET FOR PG&E NET GENERATION OUTPUT METER, CL20 RATED, 600V, 13-JAW, UL-414 RATED, TEST SWITCH, 800A CONTINUOUS DUTY RATED CT MOUNTS, THREE CONNECTORS PER PHASE, EATON CAT. #122013 OR EQUIV.	1
(I)	NEW CUSTOMER OWNED SEL-751 RELAY AND UPS, FOR USE AS SITE LOAD MONITORING, PCC DIRECTIONAL OUTPUT, AND RETURN TO SERVICE DETECTION, RATIOS AS NOTED	1

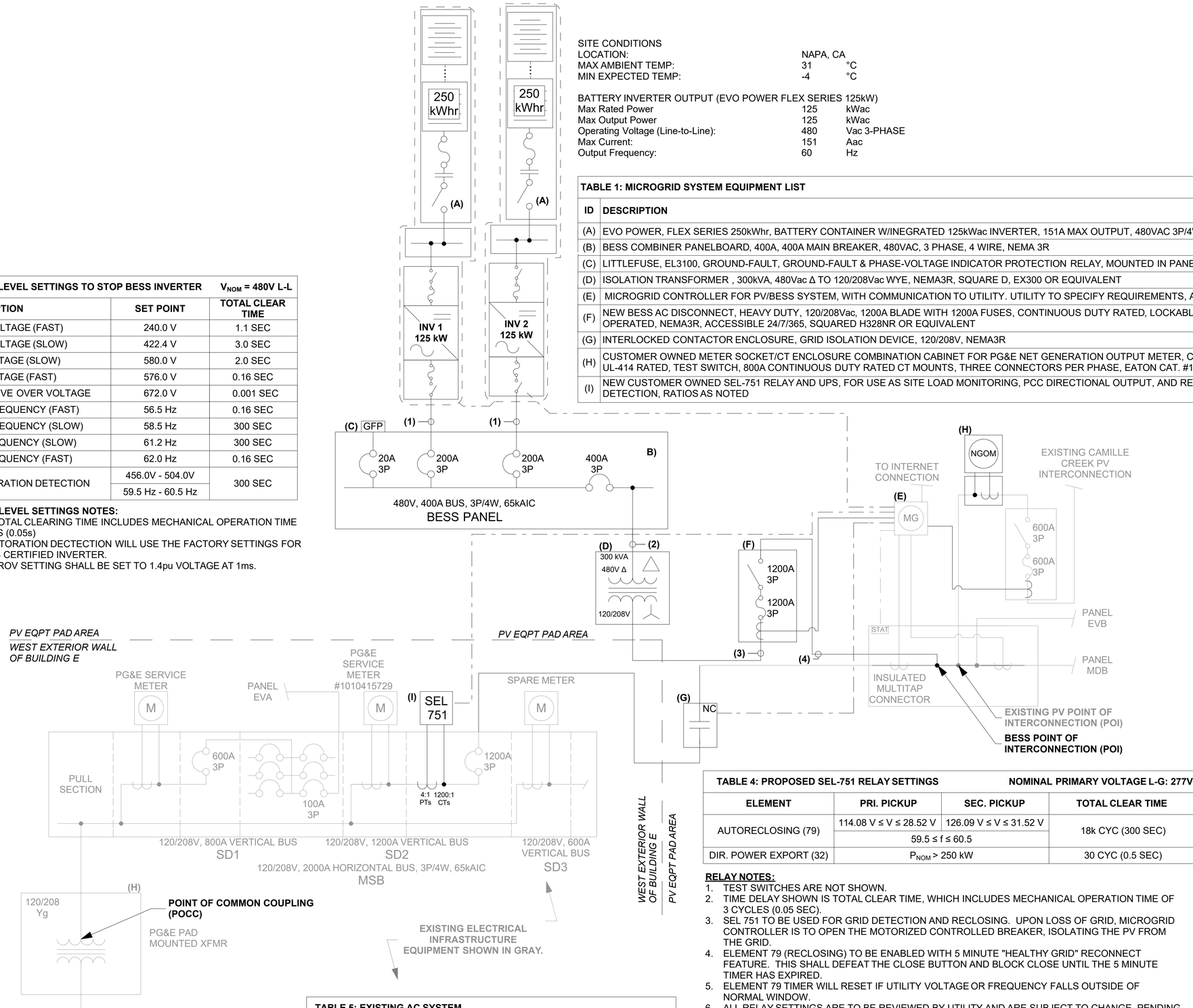

TABLE 3: TRIP LEVEL SETTINGS TO STOP BESS INVERTER — V_{NOM} = 480V L-L

DESCRIPTION	SET POINT	TOTAL CLEAR TIME
LINE UNDER VOLTAGE (FAST)	240.0 V	1.1 SEC
LINE UNDER VOLTAGE (SLOW)	422.4 V	3.0 SEC
LINE OVER VOLTAGE (SLOW)	580.0 V	2.0 SEC
LINE OVER VOLTAGE (FAST)	576.0 V	0.16 SEC
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	59.5 Hz - 60.5 Hz	

INVERTER TRIP LEVEL SETTINGS NOTES:
1. INVERTER TOTAL CLEARING TIME INCLUDES MECHANICAL OPERATION TIME OF 3 CYCLES (0.05s)
2. UTILITY RESTORATION DECTECTION WILL USE THE FACTORY SETTINGS FOR A UL 1741 SB CERTIFIED INVERTER.
3. INVERTER LROV SETTING SHALL BE SET TO 1.4pu VOLTAGE AT 1ms.

TABLE 4: PROPOSED SEL-751 RELAY SETTINGS — NOMINAL PRIMARY VOLTAGE L-G: 277V

ELEMENT	PRI. PICKUP	SEC. PICKUP	TOTAL CLEAR TIME
AUTORECLOSING (79)	114.08 V ≤ V ≤ 28.52 V	126.09 V ≤ V ≤ 31.52 V	18k CYC (300 SEC)
	59.5 ≤ f ≤ 60.5		
DIR. POWER EXPORT (32)	P_{NOM} > 250 kW		30 CYC (0.5 SEC)

RELAY NOTES:
1. TEST SWITCHES ARE NOT SHOWN.
2. TIME DELAY SHOWN IS TOTAL CLEAR TIME, WHICH INCLUDES MECHANICAL OPERATION TIME OF 3 CYCLES (0.05 SEC).
3. SEL 751 TO BE USED FOR GRID DETECTION AND RECLOSING. UPON LOSS OF GRID, MICROGRID CONTROLLER IS TO OPEN THE MOTORIZED CONTROLLED BREAKER, ISOLATING THE PV FROM THE GRID.
4. ELEMENT 79 (RECLOSING) TO BE ENABLED WITH 5 MINUTE "HEALTHY GRID" RECONNECT FEATURE. THIS SHALL DEFEAT THE CLOSE BUTTON AND BLOCK CLOSE UNTIL THE 5 MINUTE TIMER HAS EXPIRED.
5. ELEMENT 79 TIMER WILL RESET IF UTILITY VOLTAGE OR FREQUENCY FALLS OUTSIDE OF NORMAL WINDOW.
6. ALL RELAY SETTINGS ARE TO BE REVIEWED BY UTILITY AND ARE SUBJECT TO CHANGE, PENDING FINAL UTILITY APPROVAL.
7. POWER SUPPLY SCHEMATIC WILL BE SUBMITTED FOR APPROVAL PRIOR TO WITNESS TEST.
8. INTERCONNECTION INTERRUPTING DEVICE SHALL HAVE DC TRIP COILS AND TRIPPING ENERGY SHALL BE DERIVED FROM 24VDC UPS-STYLE STATION BATTERY TO ALLOW FOR APPROXIMATELY 8 HR RUN TIME.
9. ELEMENT 32 RELAY WILL BE SET TO 250kW, AT NOMINAL VOLTAGE. THE DIRECTIONALITY WILL BE SET FOR ENERGY EXPORT

TABLE 5: EXISTING AC SYSTEM

TOTAL ARRAY SIZE (kWdc)	178.20
MODULE MODEL	BOVIET BVM7612M-550-H-HC-BF-DG
TOTAL NUMBER OF MODULES IN ARRAY	324
MODULE WATTAGE	550
INVERTER MODEL	(6) CPS SCA25KTL-DO/US-208 [208V]
TOTAL SYSTEM SIZE (kWac)	150.00

1 BESS SINGLE LINE WITH 250.00 kWac (500.00 kWhr) OF BATTERY STORAGE - OPTION 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122376 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/08/2026

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

CAMILLE CREEK COMMUNITY SCHOOL - BATTERIES ENCLOSURE
NAPA COUNTY OFFICE OF EDUCATION
CAMILLE CREEK COMMUNITY SCHOOL
2097 IMOLA AVE, NAPA, CA 94559
PTN - 10280-21, DSA# 01-122376
DESIGN DEVELOPMENT

solar design associates
HARVARD, MA 01451-0242 tel: 978-456-6855
www.solardesign.com fax: 978-772-9715

KEY PLAN
PLAN NORTH
TRUE NORTH

CLIENT
NCOE
PROJECT NUMBER
250118
DATE Wednesday, April 29, 2026
DRAWN BY: MJ CHKED BY: CW,HS, TP

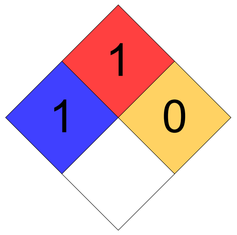
REVISIONS

#	DESCRIPTION	DATE
-	DESIGN DEVELOPMENT SET	04/23/2025
-	CONSTRUCTION DOCUMENTS SET	07/03/2025
1	BESS UPDATE	01/28/2026
2	BESS UPDATE	03/19/2026
-	PBK EDITS	04/29/2025

DESIGN DEVELOPMENT

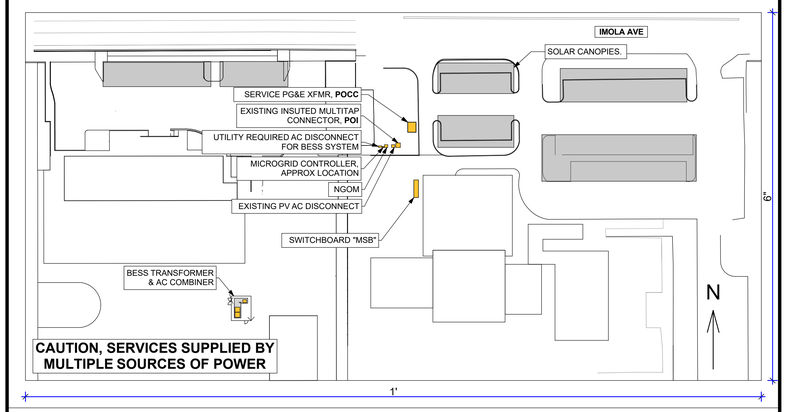
SINGLE LINE - CC - OPT 2

PV603

RECOMMENDED
RED WITH WHITE LETTERS
BATTERY CABINET ENCLOSURES (2) GATE ENTRY OF FENCE ENCLOSURE (1)

TO BE PROVIDED AND SPECIFIED BY BESS MANUFACTURER
3

NEC ARTICLE	UTILITY REQUIREMENT	UTILITY REQUIREMENT	RECOMMENDED
SPECIFICATION	RED WITH WHITE LETTERS	RED WITH WHITE LETTERS	RED WITH WHITE LETTERS
LOCATION	PV AC DISCONNECT (1)	BESS AC DISCONNECT (1)	BATTERY CABINET ENCLOSURES (2) GATE ENTRY OF FENCE ENCLOSURE (1)
SIGN SIZE AND TEXT	1/2" **AC DISCONNECT 1 OF 2** 3"	1/2" **AC DISCONNECT 2 OF 2** 3"	1 1/2" **CAUTION** **BATTERY ENERGY STORAGE SYSTEM** **BATTERY CHEMISTRY: LITHIUM IRON PHOSPHATE (LFP)** **ENERGIZED ELECTRICAL CIRCUITS** 4"
QUANTITY	1	1	3

NOTES:
ALL SIGNS MUST BE PERMANENT AND WEATHERPROOF

705.10
RED W/ WHITE LETTERS, ENGRAVED
UTILITY REQUIRED AC DISCONNECTS (1), BESS PANELBOARDS (1), MAIN SWITCHBOARDS (1), SERVICE TRANSFORMERS (1)

11

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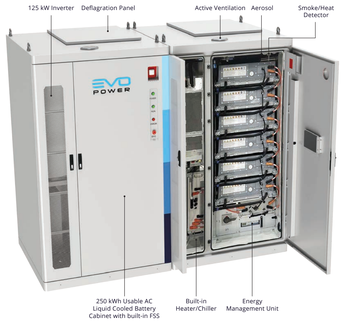
DESIGN DEVELOPMENT

LABELS - CC

PV702

SYSTEM COMPONENTS



HARDWARE FEATURES

- Lithium Iron Phosphate Chemistry
- UL 9540 & UL 1741 Certified BESS
- Liquid Cooled Battery Modules
- Fire Suppression System Built-in
- Utility-grade Value/Performance

- Scaleable Power & Energy
- High Efficiency
- 480 VAC 3 Phase Output (4 wire)
- Backup Power - Coming Soon - Optional
- Fast response for Frequency Regulation Applications

- Advanced Power Control Software
- EVO API for 3rd Party VPP Aggregators
- EVO Advanced Monitoring Platform
- Optional Monitoring of Compatible PV Systems

- Outdoor Mounted Pod-Style Solution
- Scalable & Flexible Layout Options
- Built-in Aux. Power Supply reducing BOS
- Pre-configured AC & DC Protection Devices
- Full-Turnkey World Class BESS Solution

SCALABILITY CONFIGURATIONS

FLEX 125 kW / 250 kWh - 2hr

FLEX 250 kW / 500 kWh - 2hr
or
125 kW / 500 kWh - 4hr

FLEX 375 kW / 750 kWh - 2hr

FLEX 500 kW / 1,000 kWh - 2hr
or
250 kW / 1,000 kWh - 4 hr

Note: Dimensions exclude product maintenance clearances. Client needs to follow regulatory installation guidelines.

INDIVIDUAL UNIT SPECIFICATIONS

INVERTER	125 kW / 250 kWh, 2 hr	125 kW / 500 kWh, 4 hr
Rated AC Power	125 kW / 125 kVa	
Rated Grid Voltage	480 VAC 3P 4W	
Grid Voltage Range	432 – 528 VAC	
Rated AC Current	151 A	
Total Harmonic Distortion	≤ 3%	
Nominal Grid Frequency	60 Hz	
Peak Efficiency	98%	
Power Factor	-1 to +1, continously adjustable	
DC Current Injection	< 0.5% of rated load	
ENERGY STORAGE		
Usable AC Energy at BOL	250 kWh	500 kWh
Nominal DC Energy at BOL	289 kWh	578 kWh
Nominal Voltage	921.6 VDC	
Voltage Range (0% SOC at >32 °F to 100% SOC)	806 – 1,000 VDC	
Chemistry	Lithium Iron Phosphate	
ENVIRONMENTAL		
Operating Temperature Range	-4 °F – 122 °F | -20 °C – 50 °C *	
Storage Temperature Range	-22 °F – 140 °F | -30 °C – 60 °C	
Operating/Storage Humidity	0 – 95% RH, Non-Condensing	
IP Ratings	IP 55 / NEMA 3S	
Airborne Noise	< 75 dBA @ 1 meter	
Maximum Altitude	6,561 ft | 2,000 m	
COMPLIANCE		
Inverter Related Standards	UL 1741, UL 1741 SB, IEEE 1547:2018, FCC part 15 class A	
Battery Related Standards	UL 1973, UL 9540A	
System Related Standards	UL 9540	
DIMENSIONS [W x D x H]		
System Dimensions	53 x 53 x 95 in 1,350 x 1,350 x 2,400 mm	106 x 53 x 95 in 2,700 x 1,350 x 2,400 mm
WEIGHTS		
Weight	6,600 lb | 3,000 kg	13,200 lb | 6,000 kg

* Inverter derating above 110 °F / 43 °C

FLEX Series Datasheet v4.5 May 2024

SCALABLE OPTIONS

AC BESS PRODUCT	CHARGE / DISCHARGE POWER (AC kW)	USABLE ENERGY (BOL, AC kWH)	NOMINAL ENERGY (BOL, DC kWH)	# OF BESS
2 Hour (0.5C) Systems				
FLEX 125 kW / 250 kWh	125	250	289	1
FLEX 250 kW / 500 kWh	250	500	578	2
FLEX 500 kW / 1,000 kWh	500	1,000	1,156	4
FLEX 1,000 kW / 2,000 kWh	1,000	2,000	2,312	8
FLEX 1,500 kW / 3,000 kWh	1,500	3,000	3,468	12
FLEX 2,000 kW / 4,000 kWh	2,000	4,000	4,624	16
4 Hour (0.25C) Systems				
FLEX 125 kW / 500 kWh	125	500	578	2
FLEX 250 kW / 1,000 kWh	250	1,000	1,156	4
FLEX 500 kW / 2,000 kWh	500	2,000	2,312	8
FLEX 1,000 kW / 4,000 kWh	1,000	4,000	4,624	16

Other output values may be selected in increments of 125 kW.
Combinations of the same systems above can be controlled in parallel.

All the AC power ratings exclude the auxiliary power. All auxiliary circuits are powered by the PCS when in backup mode.

Please contact EVO Power for the detailed Warranty Statement.
Specifications may be updated without notice, please contact EVO Power sales for the latest datasheets.

Product data sheet

Specifications

Safety switch, heavy duty, fusible, 1200A, 4 wire, 3 pole, 1 neutral, 250hp, 240VAC/250VDC, NEMA 3R

H328NR

Product availability: Stock - Normally stocked in distribution facility

Main

Product	Single Throw Safety Switch
Duty Rating	Heavy duty
Device Application	Heavy application
Disconnect Type	Fusible disconnect
Factory Installed Neutral	Neutral (factory installed)
Number of Poles	3
Current Rating	1200 A
Voltage Rating	250 V DC 240 V AC
Enclosure Rating	NEMA 3R galvannealed steel
Motor power hp	50 hp at 240 V AC 50-60 Hz for 1 phase motors 100 hp at 240 V AC 50-60 Hz for 3 phase motors 250 hp at 240 V AC 50-60 Hz for 3 phase motors 50 hp at 250 V DC

Complementary

Short-circuit current	200 kA maximum for L
Fuse type	L
Mounting Type	Surface
Electrical Connection	Lugs
Wiring configuration	4-wire (3PH + G)
Wire Size	AWG 3/0...750 kcmil copper or aluminium
Tightening torque	375 lbf.in (42.4 N.m) 0.13...0.6 in² (85.01...380 mm²) (AWG 3/0...750 kcmil)
Depth	17.75 in (450.85 mm)
Width	36.62 in (930.15 mm)
Height	69.13 in (1755.90 mm)
Net Weight	382.06 lb(US) (173.3 kg)

Environment

Certifications	UL listed file E2875

Ordering and shipping details

Category	US10DE100054

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Utility/Current Transformer Metering

20 Amp/Combination Current Transformer Rated Socket & Enclosures

121814

Application

- Single meter positions
- Designed to receive watthour positions that meet ANSI C12.10
- Combination CT/meter enclosure
- Overhead or underground feed

Construction

- Type 3R construction
- Removable test switch perch
- CT mounting base provision
- H-base hub provision – overhead only
- Ring style
- Snap type sealing ring included
- Cover has newly designed fixed handles (not shown)

Standards

- UL 414 listed, complies with ANSI C12.7

Finish

- ANSI 61 gray acrylic electrocoat finish

Accessories

- Screw type sealing ring — catalog #25016D
- H-base hubs
- Steel or clear lexan covers for socket openings
- CT mounting bases
- 5th jaw kit — catalog #50371

Overhead/Underground-Surface Mount

Catalog Number	Main Disconnect	Ampacity Max.	Ampacity Conc.	Voltage	Service Type	Number of Jaws	Hub Provi.	Conductor Lug Range All Terminals	Grounding Terminal	Figure Number	Dimensions (Inches) Height (H)	Width (W)	Depth (D)	(L)
121814	NONE	20	20	600	1Ø	4	H	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 1	42	24	11	15 Ha
121815	NONE	20	20	600	1Ø	5	H	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 1	42	24	11	15 Ha
121816	NONE	20	20	600	1Ø	6	H	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 1	42	24	11	15 Ha
121818	NONE	20	20	600	1Ø	8	H	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 1	42	24	11	15 Ha
122013	NONE	20	20	600	3Ø	13	H	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 2	42	36	11	15 Ha
122015	NONE	20	20	600	3Ø	15	H	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 2	42	36	11	15 Ha
120918	NONE	20	20	600	1Ø or 3Ø	8	H	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 2	42	36	11	15 Ha

Underground-Surface Mount

Catalog Number	Main Disconnect	Ampacity Max.	Ampacity Conc.	Voltage	Service Type	Number of Jaws	Hub Provi.	Conductor Lug Range All Terminals	Grounding Terminal	Figure Number	Dimensions (Inches) Height (H)	Width (W)	Depth (D)	(L)
121814	NONE	20	20	600	1Ø	4	NONE	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 1	52	24	11	25 Ha
121815	NONE	20	20	600	1Ø	5	NONE	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 1	52	24	11	25 Ha
121816	NONE	20	20	600	1Ø	6	NONE	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 1	52	24	11	25 Ha
121818	NONE	20	20	600	1Ø or 3Ø	8	NONE	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 1	52	24	11	25 Ha
122013	NONE	20	20	600	3Ø	13	NONE	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 2	52	36	11	25 Ha
122015	NONE	20	20	600	3Ø	15	NONE	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 2	52	36	11	25 Ha
120918	NONE	20	20	600	1Ø or 3Ø	8	NONE	14 AWG - 10 AWG	14 AWG - 20 AWG	Fig. 2	52	36	11	25 Ha

COOPER B-Line

Data subject to change without notice. Consult local utility for area acceptance. All dimensions in inches.

Product data sheet

Specifications

Transformer, dry type, DOE 2016, 300kVA, 3 phase, 480V delta primary, 208Y/120V secondary, 25J, 150C rise

EX300T3H

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Square D
Product or Component Type	Transformer
Device short name	DOE 2016
Transformer type	Energy efficient
Device Application	Low voltage electrical distribution

Complementary

Box number	25J
Phase	3 phase
Rated operational power in VA	300 kVA
Network Frequency	60 Hz
type of cooling	Natural convection
Primary Voltage	480 V delta
Number of tap-offs	2 2.5 % FCAN 4 2.5 % FCBN
Secondary voltage	208Y/120 V
Coil Material	Aluminium
Basic IMP level (BIL)	10 kV
Temperature Rise	150 °C 220 °C insulated
DOE Efficiency	99.15 % at 35 % load factor , 167 °F (75.0 °C)
Sound Level	6 dB NEMA ST-20 49 dB
%IZ	5.0 %
%IX	0.0476 %
X/R Ratio	3.09
Let Through Current	16.7 kA
Transformer Losses	437.0 no load (core loss) 4617.0 load loss (coil loss)
Transformer BTU/HR	1925.2194095233838 16.6 % 2475.722273875 25 % 5429.5709575 50 % 10352.652068675 75 % 17244.965668 100 %

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

PBK

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DESIGN DEVELOPMENT

DATASHEETS - CC

PV801

Wednesday, April 29, 2026

G0.10 - SITE DATA & CODE ANALYSIS.DWG 1

SEL-751 Feeder Protection Relay

Comprehensive Feeder Protection and Control With Arc-Flash Detection

Five-Inch, Color Touchscreen Display Model With Four Pushbuttons

Five-Inch, Color Touchscreen Display Model With Eight Pushbuttons

Two-Line Display Model With Four Pushbuttons

Two-Line Display Model With Eight Pushbuttons

Functional Overview

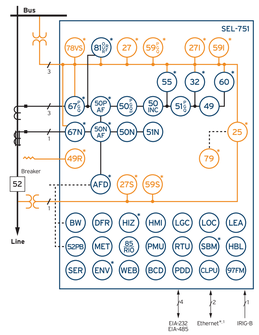

Figure 2 Functional Diagram