REV. # DATE

GRANITE HILLS MIDDLE SCHOOL EXPANSION (PH. 1)
SITE WORK FOR TEMPORARY HOUSING

ROMOLAND SCHOOL DISTRICT

DIVISION OF THE STATE ARCHITECT (DSA) PROJECT NO.:04-125701, FILE NO.: 33-44
OFFICE OF PUBLIC SCHOOL CONSTRUCTION (OPSC) PROJECT TRACKING NO: 67231-48
PJHM PROJECT NO: RSD 2601

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEMRICH
No. C34608
REN.12/27
STATE OF CALIFORNIA

PROJECT NAME

ROMOLAND SCHOOL DISTRICT

25900 LEON ROAD, HOMLAND, CA 92548
(T)951.926.9244, jparham@romoland.net

SUPERINTENDENT

TREVER PAINTON

BOARD OF TRUSTEES

MR. MANUEL AGUIRRE, PRESIDENT
MR. CHRISTOPHER CLARK, MEMBER
MR. O'RELL COLBERT, CLERK
MRS. CYNTHIA NAVARRO, MEMBER
MR. DAVID SPERRY, MEMBER

PJHM ARCHITECTS, INC.

IN ORANGE COUNTY
25550 COMMERCENTER DR., SUITE 175, LAKE FOREST, CA 92630
949.496.6191, char@pjhm.com, derek@pjhm.com

IN SAN DIEGO COUNTY
804 PIER VIEW WAY #103, OCEANSIDE, CA 92054
760.730.5527

IN ***LOS ANGELES COUNTY***
837 TRACTION AVENUE #410, LOS ANGELES, CA 90013
949.496.6191

OWNER/BOARD OF TRUSTEES

PORTABLE CLASSROOM BUILDINGS

SILVER CREEK INDUSTRIES, LLC.

2830 BARRETT AVE., PERRIS, CA 92571
(T) 951.943.5393, dtavarez@silvercreekmodular.com

TOPOGRAPHIC MAP

KELSOE & ASSOCIATES, INC.

8754 KENDRA LANE, CORONA, CA 92880
(T) 951.736.0755, bobk@team-kelsoe.net

GEOTECHNICAL ENGINEER

UES PROFESSIONAL SOLUTIONS, INC.

14538 MERIDIAN PARKWAY, SUITE A, MARCH AIR RESERVE BASE, CA 92518
(T) 951.571.4081, damin@teamues.com
REPORT NO.: A26167.00338.000
DATE: JULY 31, 2026
TITLE: GEOTECHNICAL AND GEOHAZARD INVESTIGATION REPORT
FOR GRANITE HILLS TK-8 UPPER CAMPUS EXPANSION, 200 ETHANAC AVENUE, PERRIS, CALIFORNIA 92570

ARCHITECT

CIVIL ENGINEERING

SLR CIVIL ENGINEERS INC.

6840 INDIANA AVE., SUITE 130, RIVERSIDE, CA 92506
(T) 951.683.8088, steve@slr-ce.com

LANDSCAPE ARCHITECT

INTEGRATED DESIGN GROUP, LLP.

1308 MONTE VISTA AVE., SUITE 6, UPLAND, CA 91786
909.946.6400, ddiggs.idg3@gmail.com

STRUCTURAL ENGINEERING

ME STRUCTURAL ENGINEERING INC.

2151 MICHELSON DRIVE #240, IRVINE, CA 92612
(T) 949.599.0320, matt@mestructural.com

ELECTRICAL ENGINEERING

WSP GLOBAL INC.

11870 PIERCE STREET, SUITE 160, RIVERSIDE, CA 92505
951.299.4202, nikolas.bruno@wsp.com

OWNERS CONSULTANTS

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTP://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

ACCEPTANCE TESTING

ARCHITECTS CONSULTANTS

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 EXISTING 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 DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)

GENERAL ALTERATION NOTES

SUBSTITUTIONS AFFECTING ITEMS REGULATED BY THE DIVISION OF THE STATE ARCHITECT (DSA) REQUIRE DSA APPROVAL AS AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD). DSA APPROVAL SHALL BE OBTAINED PRIOR TO FABRICATION AND/OR INSTALLATION PER SECTION 4-338, PART 1, TITLE 24, CCR.

SUBSTITUTIONS

1. ALL WORK SHOULD CONFORM TO 2025 TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.)

2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. A DSA-CERTIFIED CLASS 3 & RBIP PROJECT INSPECTOR IS REQUIRED FOR THE PROJECT

4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. TESTING LAB MUST HAVE DSA LABORATORY EVALUATION AND ACCEPTANCE PROGRAM ACCEPTANCE.

5. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

6. THE ARCHITECT OR ENGINEER MAY FIND DEFECTS IN THE WORK, AND IF THEY DO, THEY WILL NOTIFY THE CONTRACTOR SO THE ERROR MAY BE CORRECTED. UNDER NO CIRCUMSTANCES IS IT EVER THE INTENT FOR THE ARCHITECT OR ENGINEER TO BECOME A GUARANTOR OF THE CONTRACTOR'S PERFORMANCE BY THESE ACTIVITIES. THE FACT THAT A CONTRACTOR'S ERROR GOES UNDETECTED DURING THE VISIT TO THE SITE DOES NOT MAKE THE ARCHITECT OR ENGINEER NEGLIGENT: THE CONTRACTOR IS NEVER RELIEVED OF THE RESPONSIBILITY FOR THE DISCOVERY OF HIS OWN ERRORS AND THE CORRECTION OF THEM, NOR OF THE RESPONSIBILITY OF PROPERLY PERFORMING THE WORK.

7. THE ARCHITECT OR ENGINEER WILL MAKE VISITS TO THE JOB SITE TO OBSERVE THE PROGRESS OF THE WORK AND TO OBSERVE WHETHER OR NOT IT IS, IN GENERAL, BEING PERFORMED IN ACCORDANCE WITH THEIR PLANS AND SPECIFICATIONS. THIS DOES NOT IN ANY WAY MEAN THAT THE ARCHITECT OR ENGINEER IS A GUARANTOR OF THE CONTRACTOR'S WORK: RESPONSIBILITY FOR SAFETY IN, ON OR ABOUT THE JOB SITE: IN CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING,FORMS, OR OTHER WORK AIDS: OR SUPERINTENDING THE WORK.

8. FOR ALL WALL MOUNTED AND SEMI-RECESSED MOUNTED EQUIPMENT, ACCESSORIES CABINETS, HANDRAILS, MARKER BOARDS, MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT AND ETC. PROVIDE AND INSTALL BACKING IN ACCORDANCE TO STRUCTURAL DETAILS.

9. UNLESS OTHERWISE NOTED, ALL INTERIOR WALLS SHOWN ON THE FLOOR PLAN ARE TO EXTEND TO THE UNDERSIDE OF THE ROOF SHEATHING WITH ONE LAYER OF 5/8" THICK. TYPE 'X' GYPSUM BOARD ON EACH SIDE OF STUD FACE. ALL STUD WALLS TO CONTAIN SOUND INSULATION BATTS, FULL HEIGHT.

10. DO NOT SCALE DRAWINGS. WORK TO THE DIMENSIONS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL VERIFY THE DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOR PROMPT CLARIFICATION.

11. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES INDICATED OR NOT ON THE DRAWING ARE OBTAINED BY SEARCH OF AVAILABLE RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATIONS OF THE UTILITIES WITH SCHOOL DISTRICT MAINTENANCE AND OPERATION PERSONNEL. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES AND OTHER STRUCTURES. ANY DAMAGE SHALL BE PROMPTLY RESTORED TO THE SCHOOL DISTRICT'S SATISFACTION.

12. PROVIDE CONSTRUCTION BARRICADES AS REQUIRED TO PROTECT PUBLIC'S HEALTH AND SAFETY INCLUDING WORK UNDER CONSTRUCTION TO THE REQUIREMENTS OF THE SCHOOL DISTRICT. COVER OPEN TRENCHES WITH SOLID MATERIAL.

13. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY AND STRUCTURES. ANY DAMAGE SHALL BE PROMPTLY RESTORED TO THE SATISFACTION OF THE OWNER/ARCHITECT, AT CONTRACTOR'S EXPENSE.

14. **BIDDERS ARE REQUIRED TO LOOK AT ALL DRAWINGS AND SPECIFICATIONS, NOT JUST THOSE SHEETS OR SECTIONS RESPECTIVE OF THEIR TRADE.**

15. UNLESS SPECIFIED ON STRUCTURAL OR ARCHITECTURAL DRAWINGS, ANY ALTERATIONS OR MODIFICATIONS TO A STRUCTURAL ELEMENT BY CUTTING, DRILLING, BORING, BRACING, WELDING, ETC. SHALL HAVE WRITTEN APPROVAL BY STRUCTURAL ENGINEER OF RECORD AND APPROVAL OF DSA PRIOR TO START OF WORK.

16. ALL DETAILS CONTAINED IN THESE CONSTRUCTION DOCUMENTS ARE PART OF THE CONSTRUCTION SCOPE REGARDLESS OF THEM BEING REFERENCED IN THE SET.

17. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CBC CHAPTER 33 AND CFC CHAPTER 33. A WRITTEN SITE SAFETY PLAN IN COMPLIANCE WITH CFC 3303.1.1 MUST BE PREPARED AND AVAILABLE ON SITE PRIOR TO COMMENCEMENT OF ANY MOBILIZATION, DEMOLITION, AND/OR CONSTRUCTION

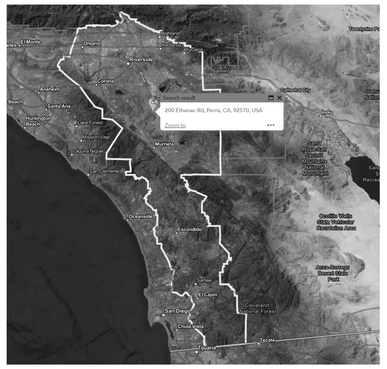
GENERAL NOTES

2025	CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CALIFORNIA CODE OF REGULATIONS
2025	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CALIFORNIA CODE OF REGULATIONS
2025	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CALIFORNIA CODE OF REGULATIONS
2025	CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CALIFORNIA CODE OF REGULATIONS
2025	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CALIFORNIA CODE OF REGULATIONS
2025	CALIFORNIA ENERGY CODE PART 6, TITLE 24 CALIFORNIA CODE OF REGULATIONS
2025	CALIFORNIA WILDLAND-URBAN INTERFACE CODE (CWUIC) PART 7, TITLE 24 CALIFORNIA CODE OF REGULATIONS
2025	CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24 CALIFORNIA CODE OF REGULATIONS
2025	CALIFORNIA EXISTING BUILDING CODE (CEBC) PART 10, TITLE 24 CALIFORNIA CODE OF REGULATIONS
2025	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen) PART 11, TITLE 24 CALIFORNIA CODE OF REGULATIONS
2025	CALIFORNIA REFERENCED STANDARDS CODE PART 12, TITLE 24 CALIFORNIA CODE OF REGULATIONS
	TITLE 19 CALIFORNIA CODE OF REGULATIONS, PUBLIC SAFETY STATE FIRE MARSHALL REGULATIONS

APPLICABLE STANDARDS

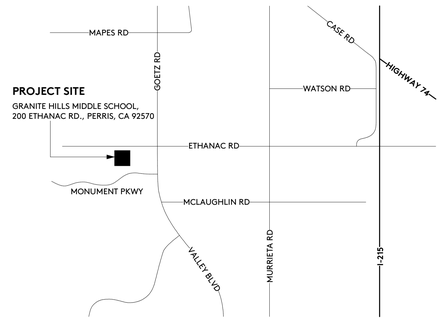
FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE N.F.P.A. STANDARDS, REFER TO CALIFORNIA BUILDING CODE CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80

APPLICABLE CODES AND STANDARDS



CALIFORNIA CLIMATE ZONE:	10
FIRE HAZARD SEVERITY ZONE:	VERY HIGH (LRA)
FLOOD HAZARD ZONE:	NO

PROJECT ZONE DATA



VICINITY MAP

THIS DOCUMENT PACKAGE INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING SCOPE:

1. CONSTRUCTION OF:
   - (6) RELOCATABLE CLASSROOM BUILDINGS, PC04-121999
   - (1) MODULAR RAMP, BASED ON PC04-121999
   - (1) ELECTRICAL ENCLOSURE

BRIEF PROJECT SCOPE

APPLICATION NO.: 04-125701
FILE NO.: 33-44

THIS DRAWINGS IDENTIFIED AS FOLLOWS:

☐ ALL DRAWING SHEETS INCLUDED IN THIS SET NOT BEARING MY STAMP AND SIGNATURE.

☐ DRAWING SHEETS DENOTED IN THE SHEET INDEX AS FOLLOWS:

☒ DRAWING SHEETS INCLUDED UNDER THE FOLLOWING PC APPROVAL(S): PC04-121999

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS (PLANS) IN THIS STATE. THEY HAVE BEEN EXAMINED BY ME FOR:

(1) DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND (2)COORDINATION WITH MY DRAWINGS (PLANS) AND SPECIFICATIONS AND AREA ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

PER TITLE 24, PART 1, SECTION 4-316(B): THIS 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

SIGNATURE		DATE: 10/26/2026
DEREK C. STEMRICH	C34608	12/27
PRINTED NAME	LICENSE NO.	EXPIRATION DATE

STATEMENT OF GENERAL CONFORMANCE

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

COVER SHEET

CS

10/9/2026 8:57:10 AM

REV. # DATE

CS	COVER SHEET
INDEX-1	SCHEDULE OF DRAWINGS
INDEX-2	CAL GREEN COMPLIANCE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STENR CA
NO. C34608
REN.12/27
STATE OF CALIFORNIA

GENERAL G

1/8" = 1'-0"

C-1.0	SITE DEMOLITION PLAN INDEX SHEET
C-1.1	SITE DEMOLITION PLAN
C-1.2	SITE DEMOLITION PLAN
C-2.0	DETAILS
C-2.1	DETAILS
C-3.0	SITE GRADING PLAN INDEX SHEET
C-3.1	SITE GRADING PLAN
C-3.2	SITE GRADING PLAN
C-4.0	SITE UTILITY PLAN

ELECTRICAL E

1/8" = 1'-0"

E-0.0	ELECTRICAL SYMBOLS LIST
E-1.0	ELECTRICAL SITE PLAN
E-1.1	SITE PHOTOMETRIC PLAN
E-2.1	ENLARGED BUILDING I - ELECTRICAL PLAN
E-3.1	SINGLE LINE DIAGRAM
E-3.2	TRANSFORMER SCHEDULE
E-4.1	TITLE 24 CALCULATION
E-5.1	ELECTRICAL DETAILS
E-5.2	TECHNOLOGY DETAILS
EFA-0.0	FIRE ALARM SYSTEM INFORMATION
EFA-0.1	FIRE ALARM DETAILS
EFA-0.2	FIRE ALARM RISER DIAGRAM AND CALCULATIONS
EFA-1.1	ENLARGED BUILDING I - FIRE ALARM PLAN

ARCHITECTURAL A

1/8" = 1'-0"

A-0N	COVER SHEET
A-1.00N	COMPOSITE FLOOR PLAN (6) 24' x 40'
A-1.01N	FLOOR PLAN 24' X 40'
A-3.03N	PROJECT SPECIFIC ROOF PLAN (6) 24' x 40'
A-4.04N	EXTERIOR ELEVATION 48' TO 120' X 40' MONO SLOPE
F-0.01N	WOOD FOUNDATION PLAN 24x40 (50 PSF)
E-1.01N	ELECTRICAL PLAN AND SCHEDULE 24' x 40'
R-1.03N	RAMP LANDING
A-0	COVER SHEET
A-0A	T & I FORMS
A-0B	T & I FORMS
A-0.1	SYMBOLS LEGEND, ABBREVIATIONS & ADA SIGNAGE
A-0.2	SCHEDULES
A-0.3	TYPICAL KEY PLANS 24' - 120' x 40'
A-0.53	DESIGN ENERGY VALUES WOOD FLOOR - WALL HVAC
A-0.54	PRF FORMS 24x40 - ZONE 14 WORST CASE
A-0.55	PRF FORMS 24x40 - ZONE 15 WORST CASE
A-0.56	PRF FORMS 24x40 - ZONE 16 WORST CASE
A-0.6A	CERTIFICATE OF COMPLIANCE FORMS
A-0.6B	CERTIFICATE OF COMPLIANCE FORMS
A-0.6C	CERTIFICATE OF COMPLIANCE FORMS
A-0.7	PV SYSTEM REQUIREMENTS, ENERGY MANDATORY MEASURES & CALGREEN SPEC'S
A-1.01	FLOOR PLAN 24' x 40'
A-2.01	REFLECTED CEILING PLAN 24' x 40'
A-2.20	CEILING DETAILS T-GRID
A-3.03	ROOF PLAN 48' TO 120 X 40' - METAL DECK - MONO SLOPE
A-3.50	ROOFING DETAILS STANDING SEAM ROOF DECK
A-4.04	EXTERIOR ELEVATION 48' TO 120' X 40' MONO SLOPE
A-5.01	CROSS SECTION MONO SLOPE
A-5.05	CROSS SECTION
A-5.50	ARCHITECTURAL DETAILS WOOD STUD - SHTG
A-5.70	ARCHITECTURAL DETAILS FLOOR
A-5.80	ARCHITECTURAL DETAILS MISCELLANEOUS/OPTIONS
A-5.81	ARCHITECTURAL DETAILS MISCELLANEOUS/OPTIONS
A-6.01	INTERIOR ELEVATION 24' x 40'
F-0.01	FOUNDATION PLAN 24x40 (50 PSF)
F-0.50	FOUNDATION DETAILS WOOD
S-0.1	STRUCTURAL SPECIFICATIONS
S-1.01	FLOOR FRAMING PLAN WOOD FLOOR
S-1.50	FLOOR FRAMING DETILS WOOD FLOOR
S-2.01	ROOF FRAMING PLAN MONO SLOPE
S-2.50	ROOF FRAMING DETAILS MONO SLOPE
S-2.60	ROOF FRAMING DETAILS
S-2.90	ROOF FRAMING DETAILS TRUSS
S-3.01	BUILDING SECTIONS MONO SLOPE
S-5.00	WALL FRAMING ELEVATIONS WOOD STUDS
S-5.10	WALL FRAMING DETAILS WOOD STUDS
S-5.11	WALL FRAMING DETAILS WOOD STUDS
M-0.1	MECHANICAL NOTES, SCHEDULES, & DETAILS
M-1.01	MECHANICAL PLAN WALL MOUNT 24' x 40'
E-1.01	ELECTRICAL PLAN AND SCHEDULE 24' x 40'
R-1.03	RAMP LANDING
R-2.01	RAMP DETAILS

CIVIL C

1/8" = 1'-0"

A-0.1	SITE PLAN - LOCAL FIRE ACCESS
A-0.2	BUILDING ANALYSIS
A-1.0	SITE PLAN
A-1.1	SITE PLAN - ENLARGED
A-1.2	SITE PLAN - ENLARGED
A-1.3	SITE PLAN - ENLARGED
A-1.4	SITE PLAN - ENLARGED
A-1.5	SITE DETAILS - FENCES, GATES, DOORS
A-1.6	SITE DETAILS - FENCES, GATES, DOORS
A-1.7	SITE DETAILS - FENCES, GATES, DOORS
A-1.8	SITE DETAILS - SITE WALLS
A-1.9	SITE DETAILS - HARDSCAPE
A-1.10	SITE DETAILS - HARDSCAPE
A-1.11	SITE DETAILS - SIGNAGE
A-1.12	SITE DETAILS - MISCELLANEOUS
A-3.0	FLOOR PLAN, INTERIOR ELEVATIONS
A-9.0	INTERIOR ELEVATION DETAILS
A-12.0	SIGNAGE DETAILS

RELOCATBALE BUILDING RB

1/8" = 1'-0"

STRUCTURAL S

1/8" = 1'-0"

S-1.0	STRUCTURAL GENERAL NOTES AND TYPICAL DETAILS
S-1.1	STRUCTURAL TYPICAL DETAILS
S-1.2	STRUCTURAL TYPICAL DETAILS

LANDSCAPE L

1/8" = 1'-0"

LD.A	OVERALL SITE LANDSCAPE DEMOLITION PLAN
LD.1	LANDSCAPE DEMOLITION PLAN
LD.2	LANDSCAPE DEMOLITION PLAN
LI.A	OVERALL SITE LANDSCAPE IRRIGATION PLAN
LI.1	LANDSCAPE IRRIGATION PLAN
LI.2	LANDSCAPE IRRIGATION PLAN
LID.1	LANDSCAPE IRRIGATION DETAILS
LID.2	LANDSCAPE IRRIGATION DETAILS
LP.A	OVERALL SITE LANDSCAPE PLANTING PLAN
LP.1	LANDSCAPE PLANTING PLAN
LP.2	LANDSCAPE PLANTING PLAN
LPD.1	LANDSCAPE PLANTING DETAILS
LSP.1	LANDSCAPE SHADE PLAN

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GRANITE HILLS MIDDLE SCHOOL EXPANSION (PHASE 1) SITE WORK FOR TEMP. HOUSING

ROMOLAND SCHOOL DISTRICT

SCHEDULE OF DRAWINGS

TOTAL SHEET: 112

INDEX-1

5.504.4.4.2 Carpet adhesive.
All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.4.2 11
1/8" = 1'-0"

5.504.4.5 Composite wood products.
Hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted by the ATCM must meet the specified emission limits as shown in Table 5.504.4.5.

TABLE 5.504.4.5 – FORMALDEHYDE LIMITS
(See CALGreen for TABLE)

TABLE 5.504.4.5
FORMALDEHYDE LIMITS[1]
Maximum Formaldehyde Emissions in Parts per Million

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard[2]	0.13

1. Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E1333. For additional information, see *California Code of Regulations*, Title 17, Sections 93120 through 93120.12.
2. Thin medium density fiberboard has a maximum thickness of $^{5}/_{16}$ inch (8 mm).

5.504.4.5 12
1/8" = 1'-0"

5.504.4.6 Resilient flooring systems.
For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:
1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria 2014 and listed in the CHPS High Performance Product Database; or
4. Products certified under the UL GREENGUARD Gold (formerly the Greenguard Children & Schools program).

5.504.4.6 13
1/8" = 1'-0"

5.504.5.3 Filters.
In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.
Exception: Existing mechanical equipment.

5.504.5.3.1 Labeling.
Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.5.3 14
1/8" = 1'-0"

5.504.4.3 Paints and coatings.
Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3, shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

TABLE 5.504.4.3 – VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS
(See CALGreen for TABLE)

TABLE 5.504.4.3
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2, 3]
Grams of VOC per Liter of Coating,
Less Water and Less Exempt Compounds

COATING CATEGORY	CURRENT LIMIT
Flat coatings	50
Nonflat coatings	100
Nonflat-high gloss coatings	150
SPECIALTY COATINGS	
Aluminum roof coatings	400
Basement specialty coatings	400
Bituminous roof coatings	50
Bituminous roof primers	350
Bond breakers	350
Concrete curing compounds	350
Concrete/masonry sealers	100
Driveway sealers	50
Dry fog coatings	150
Faux finishing coatings	350
Fire resistive coatings	350
Floor coatings	100
Form-release compounds	250
Graphic arts coatings (sign paints)	500
High temperature coatings	420
Industrial maintenance coatings	250
Low solids coatings[1]	120
Magnesite cement coatings	450
Mastic texture coatings	100
Metallic pigmented coatings	500
Multicolor coatings	250
Pretreatment wash primers	420
Primers, sealers and undercoaters	100
Reactive penetrating sealers	350
Recycled coatings	250
Roof coatings	50
Rust preventative coatings	250
Shellacs Clear Opaque	 730 550
Specialty primers, sealers and undercoaters	100
Stains	250
Stone consolidants	450
Swimming pool coatings	340
Traffic marking coatings	100
Tub and tile refinish coatings	420
Waterproofing membranes	250
Wood coatings	275
Wood preservatives	350
Zinc-rich primers	340

1. Grams of VOC per liter of coating, including water and including exempt compounds.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.
3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources Board.

5.504.4.3 8
1/8" = 1'-0"

5.504.4.3.1 Aerosol paints and coatings.
Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(a)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

5.504.4.3.2 Verification.
Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:
1. Manufacturer's product specification.
2. Field verification of on-site product containers.

5.504.4.3.1 9
1/8" = 1'-0"

5.504.4.4 Carpet systems.
All carpet installed in the building interior shall meet at least one of the following testing and product requirements:
1. Carpet and Rug Institute's Green Label Plus Program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350);
3. NSF/ANSI 140 at the Gold level or higher;
4. Scientific Certifications Systems Sustainable Choice; or
5. Compliant with the Collaborative for High Performance Schools California (CA-CHPS)Criteria 2014 and listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion.
All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.

5.504.4.4 10
1/8" = 1'-0"

5.504.3 Covering of duct openings and protection of mechanical equipment during construction.
At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

5.504.3 1
1/8" = 1'-0"

5.504.4 Finish material pollutant control.
Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4 2
1/8" = 1'-0"

5.504.4.1 Adhesives, sealants, and caulks.
Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene, and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 – ADHESIVE VOC LIMIT
(See CALGreen for TABLE)
TABLE 5.504.4.2 – SEALANT VOC LIMIT
(See CALGreen for TABLE)

TABLE 5.504.4.1
ADHESIVE VOC LIMIT[1,2]
Less Water and Less Exempt Compounds in Grams Per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesive not specifically listed	50
SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30
Fiberglass	80

1. If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.
2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168, http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF.

TABLE 5.504.4.2
SEALANT VOC LIMIT
Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
Architectural	250
Marine deck	760
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
SEALANT PRIMERS	
Architectural Nonporous Porous	 250 775
Modified bituminous	500
Marine deck	760
Other	750

Note: For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management District Rule 1168.

5.504.4.1 5
1/8" = 1'-0"

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DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STENR, CA
NO. C34608
REN.12/27
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

CAL GREEN COMPLIANCE

10/9/2026 8:57:11 AM

SEE ENLARGED DETAIL
No. 2, SHEET C-1.2

SEE ENLARGED DETAIL
No. 1, SHEET C-1.2

SEE SHEET C-1.2

SEE ENLARGED DETAIL
No. 3, SHEET C-1.2

EXIST. DG RUNNING TRACK
PER A# 04-121651, REVISION 1
PROTECT IN PLACE

SEE SHEET C-1.1

PROJECT SITE

KEY MAP
N.T.S.

20 10 0 20 40 60
SCALE: 1" = 20'

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EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE DEMOLITION PLAN
INDEX SHEET

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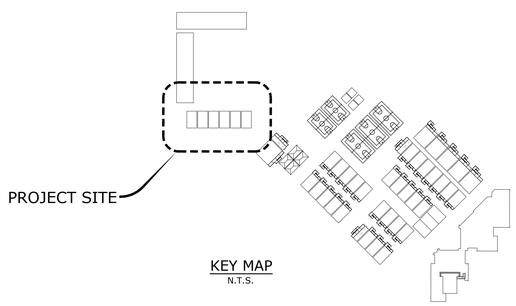
102-0557

C-1.0



SITE DEMOLITION NOTES

1. SAWCUT AND REMOVE EXISTING A.C. PAVEMENT.
2. SAWCUT AND REMOVE EXISTING CONCRETE MOW CURB.
3. REMOVE EXISTING TREE AND ASSOCIATED ROOT BALL.
4. REMOVE EXISTING CHAIN LINK FENCING. STORE FOR POSSIBLE REUSE AS DIRECTED BY THE ARCHITECT.
5. REMOVE AND/OR RELOCATE EXISTING IRRIGATION CONTROL VALVE AND ASSOCIATED PIPING. REFER TO LANDSCAPE PLANS FOR DETAILS.
6. SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK.
7. REMOVE EXISTING CHAIN LINK FENCE, FENCE POSTS AND CONCRETE MOW CURB.
8. REMOVE EXISTING TURF AND IRRIGATION AT NEW WORK AREA. COORDINATE WITH LANDSCAPE DRAWINGS.
9. REMOVE EXISTING D.G. SURFACE. SALVAGE AND STOCKPILE DG FOR RE-USE.
10. SAWCUT AND REMOVE EXISTING CONCRETE CURB AND GUTTER.
11. REMOVE AND RELOCATE EXISTING IRRIGATION CONTROLLER. COORDINATE WITH LANDSCAPE DRAWINGS.
12. REMOVE AND RELOCATE EXISTING CHAIN LINK GATE, GATE POST AND ASSOCIATED FOOTINGS.



KEY MAP
N.T.S.

SCALE: 1" = 10'

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ROMOLAND SCHOOL DISTRICT

SITE DEMOLITION PLAN

102-0557

C-1.1

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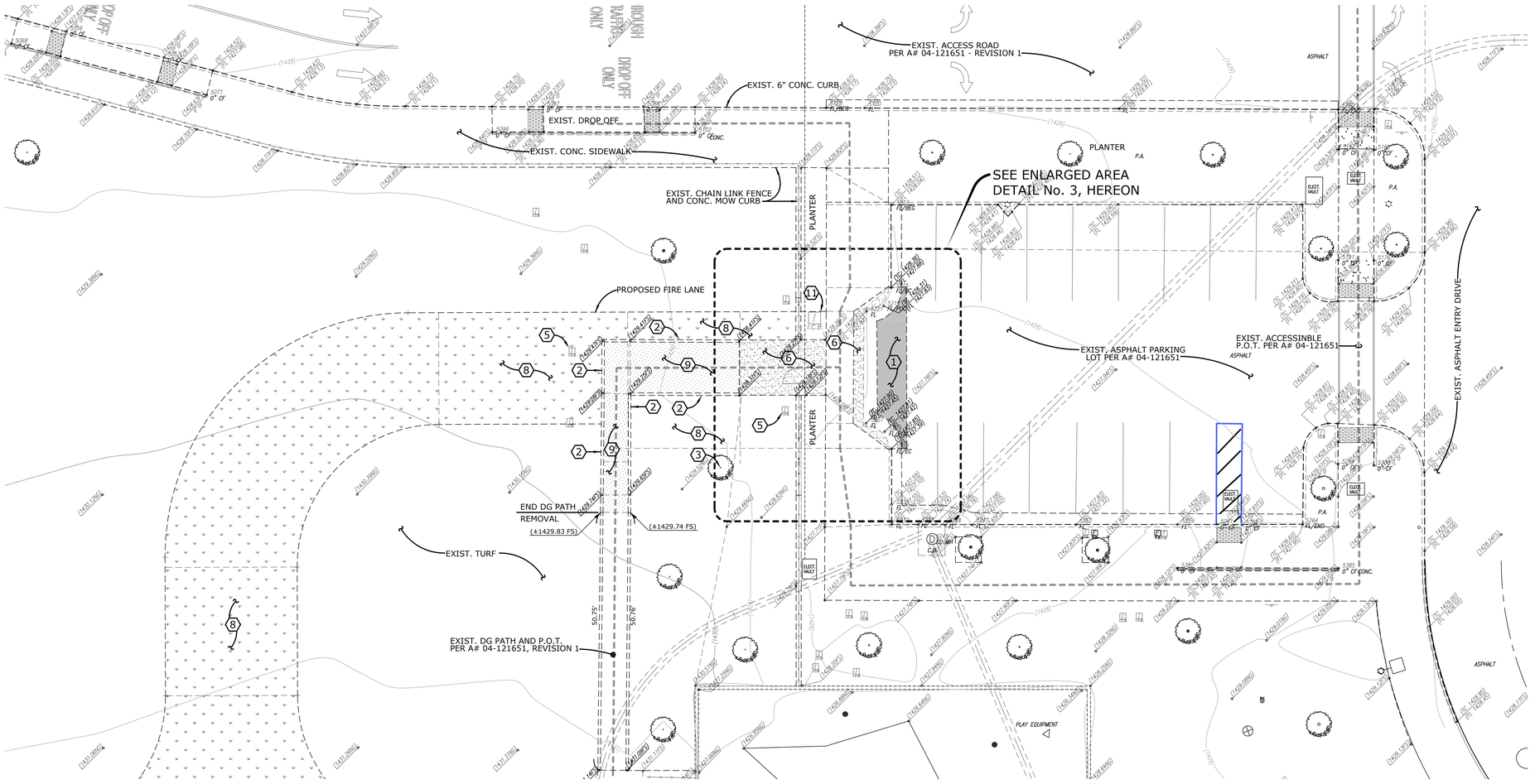
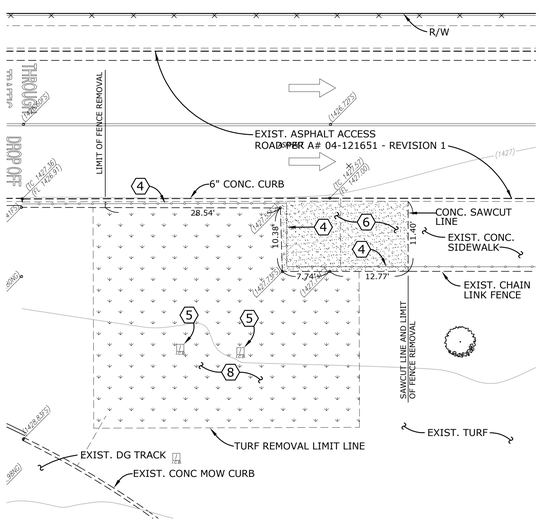


ENLARGED AREA DETAIL SCALE: 1"=10' | 2



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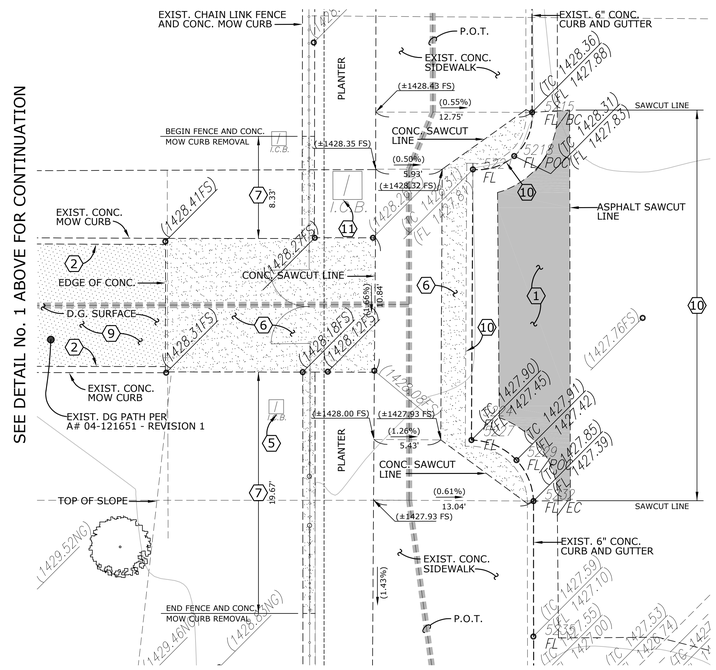

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SITE DEMOLITION NOTES

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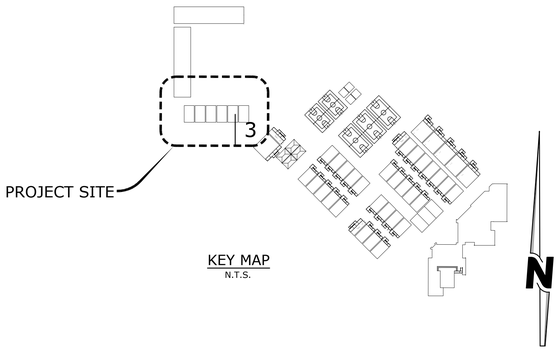

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SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE DEMOLITION PLAN

C-1.2

102-0557

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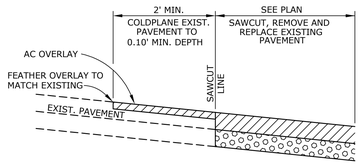
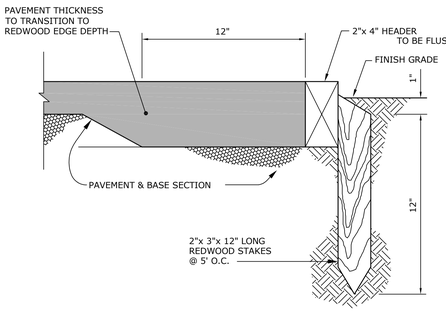


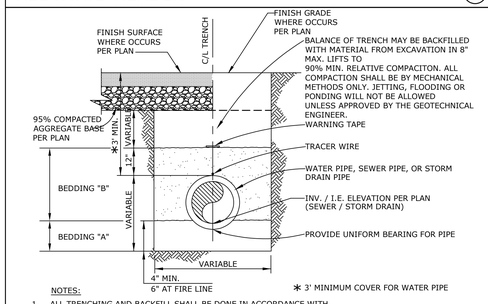
JOIN DETAIL AT EXISTING ASPHALT

NTS

ASPHALT JOIN DETAIL 10 1



REDWOOD HEADER 5 2



NOTES:

1. ALL TRENCHING AND BACKFILL SHALL BE DONE IN ACCORDANCE WITH SECTION 306, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
2. PIPE SHALL HAVE A MINIMUM OF 3' COVER UNLESS OTHERWISE SHOWN ON PLAN.
3. BEDDING "A" SHALL BE SAND (SAND EQIVALENT NOT LESS THAN 30) OR CRUSHED ROCK PER GRADATION TABLE HEREON.
4. BEDDING "B" SHALL BE COMPOSED OF SAND OR OTHER GRANULAR MATERIAL (SAND EQUIVALENT OF NOT LESS THAN 30) AND SHALL BE COMPACTED TO A RELATIVE COMPACTION OF NOT LESS THAN 90% WITHIN 3' FROM FINISH SURFACE, AND 85% COMPACTION BELOW 3'.
5. REFER TO DETAIL NO. 6, SHEET SD.1 FOR TRENCHES NEAR FOUNDATIONS.
6. MINIMUM 3 FEET OF COVER FOR ALL FIRE WATER LINES.

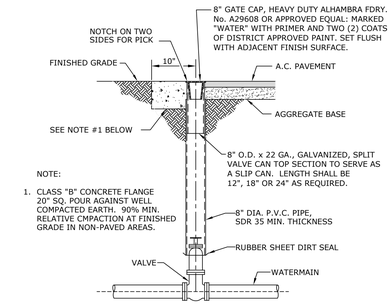
BEDDING "A" CRUSHED ROCK GRADATION	
SIEVE SIZE	% PASSING SIEVES
1"	100
3/4"	90-100
1/2"	30-60
3/8"	0-20
No. 4	0-5

ASTM C131 TEST GRADING-B

CORROSIVE SOILS NOTE

CORROSION PROTECTION SHALL BE PROVIDED FOR ALL BELOW GRADE METALLIC PIPING AND ASSOCIATED VALVES AND FITTINGS. SUCH PIPING SHALL BE PROTECTED FROM CORROSION BY ENCASEMENT IN A POLYETHYLENE PROTECTIVE WRAPPING, REFERRED TO HEREAFTER AS POLYWRAP. ALTHOUGH NOT INTENDED TO BE A COMPLETELY AIR AND WATER TIGHT ENCLOSURE, THE POLYWRAP SHALL PROVIDE A CONTINUOUS BARRIER BETWEEN THE PIPE AND SURROUNDING BEDDING AND BACKFILL.

TYPICAL PIPE TRENCH DETAIL 70 3



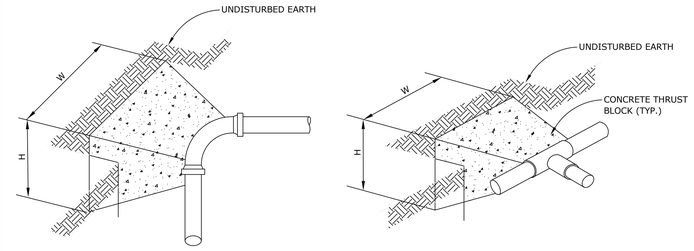
NOTE:

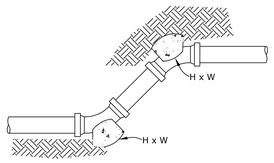
1. CLASS "B" CONCRETE FLANGE 20" SQ. POUR AGAINST WELL COMPACTED EARTH. 90% MIN. RELATIVE CMPACTION AT FINISHED GRADE IN NON-PAVED AREAS.

CORROSIVE SOILS NOTE

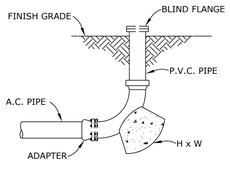
CORROSION PROTECTION SHALL BE PROVIDED FOR ALL BELOW GRADE METALLIC PIPING AND ASSOCIATED VALVES AND FITTINGS. SUCH PIPING SHALL BE PROTECTED FROM CORROSION BY ENCASEMENT IN A POLYETHYLENE PROTECTIVE WRAPPING, REFERRED TO HEREAFTER AS POLYWRAP. ALTHOUGH NOT INTENDED TO BE A COMPLETELY AIR AND WATER TIGHT ENCLOSURE, THE POLYWRAP SHALL PROVIDE A CONTINUOUS BARRIER BETWEEN THE PIPE AND SURROUNDING BEDDING AND BACKFILL.

VALVE CAN DETAIL 75 5

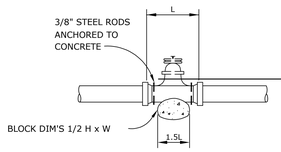




45° OR 22-1/2° FITTING



CONDITION AT STUB



GATE VALVE

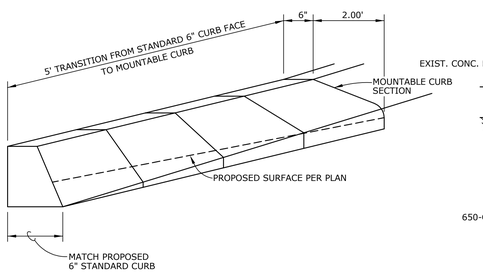
NOTES

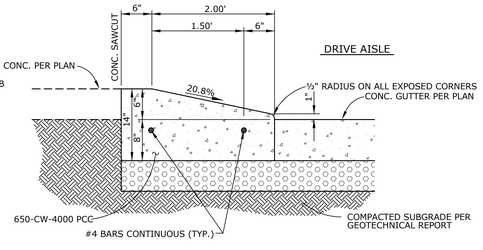
1. THRUST BLOCKS SHALL BE INSTALLED AT EVERY CHANGE OF DIRECTION.
2. THRUST BLOCKS ARE FOR CLASS 150 OR CLASS 200 A/C PIPE, CAST IRON OR P.V.C. PIPE BASED ON AN ALLOWABLE SOIL BEARING LOAD OF 2000 PSF, AND THE GEOTECHNICAL REPORT BY UES, DATED JULY 31, 2026 PROJECT NO. A26167.00338.000 THAT SPECIFIED AN ALLOWABLE BEARING LOAD OF 2500 PSF.
3. THRUST BLOCK SHALL BE 520-C-2500 CLASS CONCRETE PER SECTION 201-1 OF THE S.S.P.W.C. (GREEN BOOK).

THRUST BLOCK TABLES				
PIPE SIZE	TYPE OF FITTING	SAFE SOIL BEARING #/SQ. FT.	THRUST BLOCK DIMENSIONS	
			CLASS 150 HGT-WIDTH	CLASS 200 HGT-WIDTH
6	TEE	2000	2' x 2'	2' x 2'
6	90º BEND	2000	2' x 3'	2' x 3'
6	45º BEND	2000	1' x 3'	2' x 2'
6	22½º BEND	2000	1' x 2'	1' x 2'
4	TEE	2000	1' x 2'	1' x 3'
4	90º BEND	2000	1' x 3'	1' x 3'
4	45º BEND	2000	1' x 2'	1' x 2'
4	22½º BEND	2000	1' x 1'	1' x 1'

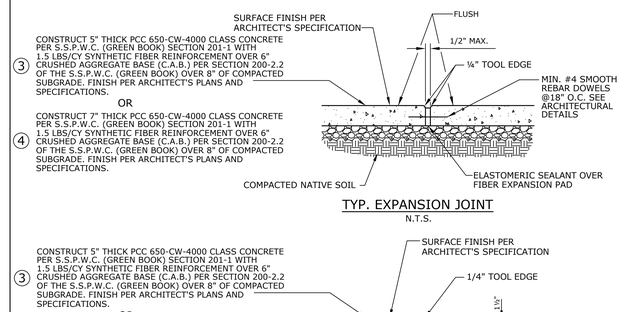
TABLE VALUES TAKEN FROM E.M.W.D. STD. B-407 FOR 2000 PSF ALLOWABLE SOIL BEARING PRESSURE

CONCRETE THRUST BLOCKS FOR PIPELINES, 200 P.S.I. MAX. 79 6





6" CURB TO MOUNTABLE CURB TRANSITION 12 7



TYP. EXPANSION JOINT

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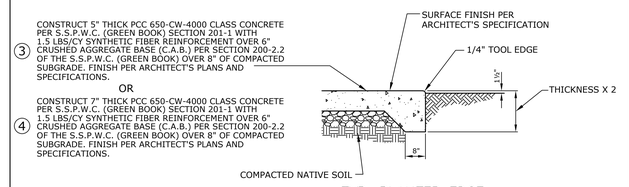

TYP. PLANTER EDGE

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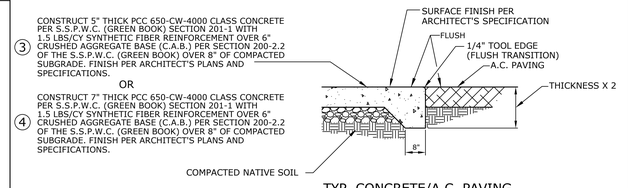

TYP. CONCRETE/A.C. PAVING

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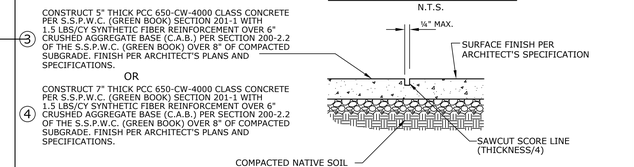

TYP. CONTROL JOINT

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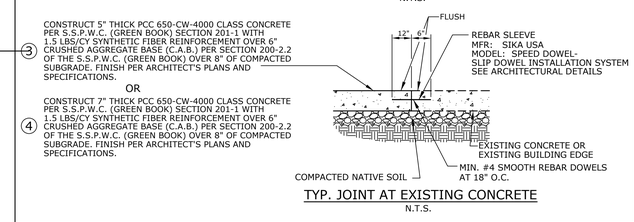

TYP. JOINT AT EXISTING CONCRETE

N.T.S.

CONCRETE PAVING DETAIL 3 4 8

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT DEREK C. STEMPEL NO. C34608 REN.12/27 STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER STEVEN T. WARD 35334 10/28/26 CIVIL STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

DETAILS

C-2.0

102-0557

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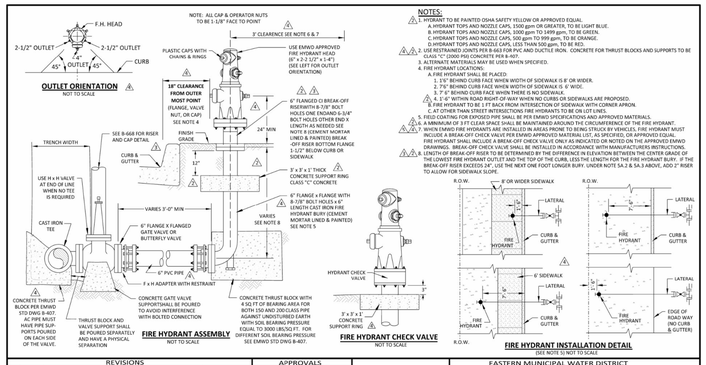

REVISIONS					APPROVALS		
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE		INITIAL	DATE
5	8/1/25	GS	REVISED NOTE 7, BREAK-OFF CHECK VALVE PLACEMENT	SC	8/8/25	DESIGN		
4	6/1/23	GS	REVISED F.H. SETBACK, TITLE BLOCK, LOGO, NOTES, ADDED BREAKOFF CHECK VALVE & PLACEMENT DETAILS	KS	6/6/23	CONSTRUCTION		
3	10/2/06	RE	REVISED 7 H. DIMENSION, GRADE & BREAK-OFF NOTES	JW	10/05/06	INSPECTION		
2	3/7/00	GR	REV. NOTES 1,2,4,6,7,ADD CONC SUPPORT &DIMS	LMS	3/09/00	OPERATIONS		
1				LMS	1/98	SUBMITTED	LMS	1/98
REFERENCES:				SCALE: NONE		RECOMMENDED: Joseph D. Van Sickle 6/8/93 DIRECTOR OF ENGINEERING DATE		
FILE I.D.: J:\Master CAD Files - Restricted\B-517				DRAWN BY: GS		APPROVED: G. Thomas Kruger 7/2/93 CHIEF ENGINEER DATE		

EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING

6" x 2-½" x 1-4" FIRE HYDRANT INSTALLATION AC, PVC, & DI PIPE

B-517

FIRE HYDRANT DETAIL- EMWD STANDARD DRAWING B-517 (76) 1

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GRANITE HILLS MIDDLE SCHOOL
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SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

DETAILS

C-2.1

102-0557

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SEE ENLARGED DETAIL
No. 2, SHEET C-3.2

SEE ENLARGED DETAIL
No. 1, SHEET C-3.2

FUTURE PHASE 2 BLDG.

SEE SHEET C-3.2

SEE ENLARGED DETAIL
No. 3, SHEET C-3.2

EXIST. DG RUNNING TRACK
PER A# 04-121651 - REVISION 1
PROTECT IN PLACE

FUTURE PHASE 2 BLDG.

SEE SHEET C-3.1

FIRE LANE

NEW BLDG. I1
*F.F.=1434.75

NEW BLDG. I2
*F.F.=1434.75

NEW BLDG. I3
*F.F.=1434.75

NEW BLDG. I4
*F.F.=1434.75

NEW BLDG. I5
*F.F.=1434.75

NEW BLDG. I6
*F.F.=1434.75

EXIST. RESTROOM

EXIST. BLDG.
PER A# 04-122464

EXIST. GRANITE HILLS CAMPUS
PER A# 04-121651 AND A# 04-122464

5.5
9'

* F.F. CRITERIA

6" MIN. SKID HEIGHT 7" FLOOR BEAM 1 1/8" FLOOR SHEETING	18" MAX. SKID HEIGHT 7" FLOOR BEAM 1 1/8" FLOOR SHEETING
14.125" = 1.18' MIN.	26.125" = 2.18' MAX.

THE F.F. ELEVATIONS SHOWN ON THE PROJECT DRAWINGS ARE BASED ON ADDING 1.18' TO THE HIGHEST FINISH GRADE ELEVATION BENEATH THE BUILDING AT THE BUILDING CORNERS. THE MAXIMUM ALLOWABLE DIFFERENCE FROM THE FINISH FLOOR ELEVATION TO THE LOWEST BUILDING CORNER ELEVATION IS 2.18'.

PROJECT SITE

KEY MAP
N.T.S.

N

20 10 0 20 40 60
SCALE: 1" = 20'

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PJHM architects

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10/28/2026

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE GRADING PLAN
INDEX SHEET

File name:N:\Schools\Perris\Granite Hills Upper Campus\GSA\Phase 1\C-3.0.dwg Rel. 2026
Plot date: 10/28/2026 9:17 AM

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C-3.0

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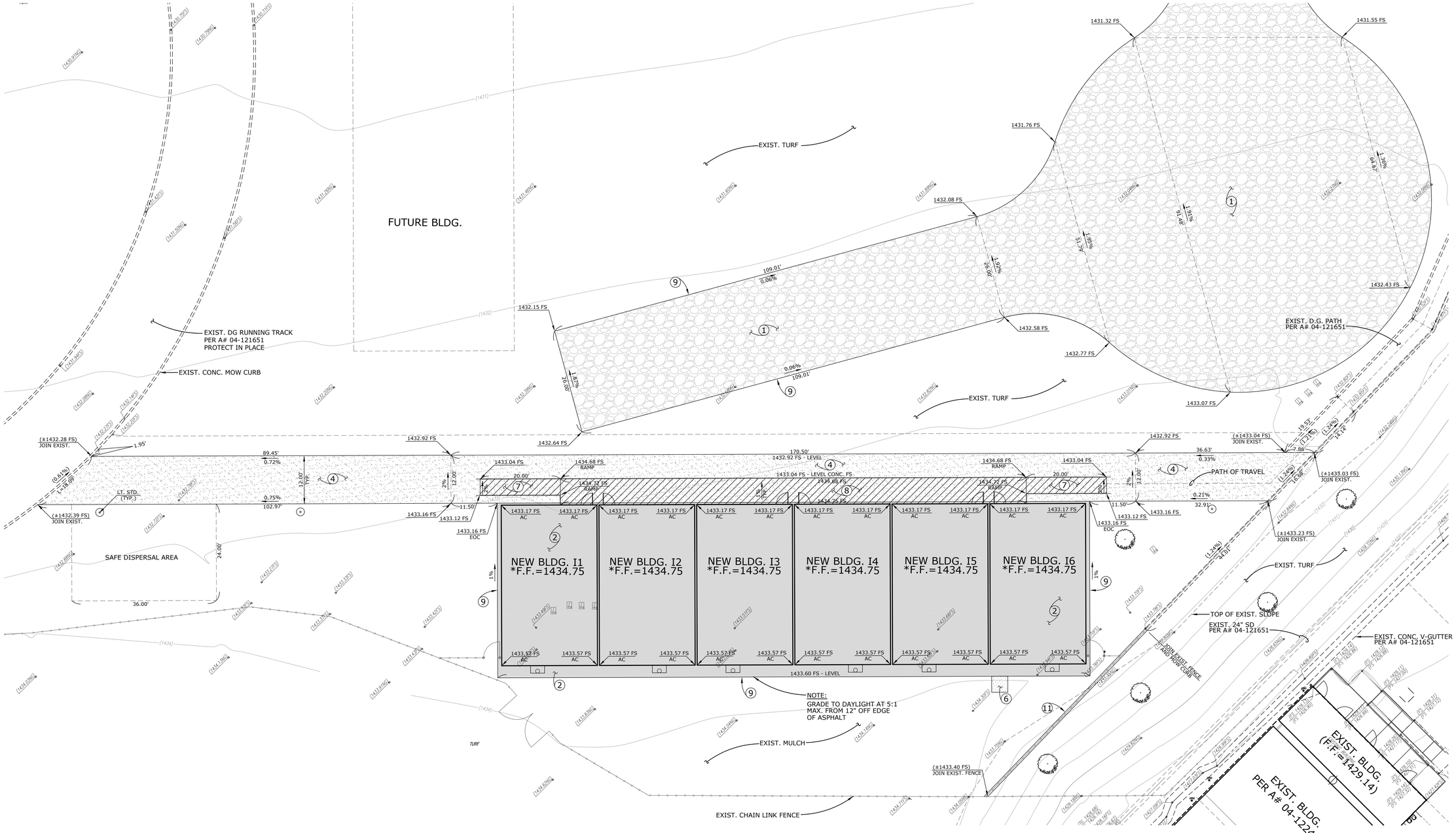
CIVIL
STATE OF CALIFORNIA

SEE SHEET C-3.2



CONSTRUCTION NOTES

T.I.=7.5 ① CONSTRUCT 8" THICK CRUSHED AGGREGATE BASE (C.A.B.) PER SECTION 200-2.2 OF THE S.S.P.W.C. (GREEN BOOK), OVER 8" OF COMPACTED SUBGRADE. BASE MATERIAL TO BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY PER ASTM D1557.

② CONSTRUCT 3" A.C. PAVEMENT OVER 4" CRUSHED AGGREGATE BASE (C.A.B.) OVER 8" OF COMPACTED SUBGRADE.

T.I.=4 ③ CONSTRUCT 5" THICK PCC 650-CW-4000 CLASS CONCRETE PER S.S.P.W.C. (GREEN BOOK) SECTION 201-1 WITH 1.5 LBS/CY SYNTHETIC FIBER REINFORCEMENT OVER 6" CRUSHED AGGREGATE BASE (C.A.B.) PER SECTION 200-2.2 OF THE S.S.P.W.C. (GREEN BOOK) OVER 8" OF COMPACTED SUBGRADE. FINISH PER ARCHITECT'S PLANS AND SPECIFICATIONS REFER TO DETAIL No. 8, SHEET C-2.0.

T.I.=8 ④ CONSTRUCT 7" THICK PCC 650-CW-4000 CLASS CONCRETE PER S.S.P.W.C. (GREEN BOOK) SECTION 201-1 WITH 1.5 LBS/CY SYNTHETIC FIBER REINFORCEMENT OVER 6" CRUSHED AGGREGATE BASE (C.A.B.) PER SECTION 200-2.2 OF THE S.S.P.W.C. (GREEN BOOK) OVER 8" OF COMPACTED SUBGRADE. FINISH PER ARCHITECT'S PLANS AND SPECIFICATIONS REFER TO DETAIL No. 8, SHEET C-2.0.

⑤ CONSTRUCT 3" A.C. PAVEMENT OVER 8" CRUSHED AGGREGATE BASE (C.A.B.) TO MATCH EXISTING.

⑥ CONSTRUCT CONCRETE PAD FOR ELECTRICAL TRANSFORMER PER STRUCTURAL DRAWINGS. COORDINATE WITH ELECTRICAL DRAWINGS.

⑦ INSTALL MANUFACTURED RAMP (4'Wx20'L).

⑧ INSTALL MANUFACTURED RAMP LANDING (7'WxX'L).

⑨ CONSTRUCT REDWOOD HEADER PER DETAIL NO. 2, SHEET C-2.0.

⑩ JOIN EXIST ASPHALT FLUSH PER DETAIL NO. 1, SHEET C-2.0.

⑪ CONSTRUCT CHAIN LINK FENCE AND CONCRETE MOW CURB PER ARCHITECTURAL DETAIL.

⑫ CONSTRUCT MOUNTABLE CURB PER DETAIL No. 7, SHEET C-2.0.

⑬ CONSTRUCT 4" THICK STABILIZED D.G. PATH PER LANDSCAPE PLANS AND SPECIFICATIONS. SEE SITE DEMOLITION NOTE NO. 9.

⑭ CONSTRUCT 6" WIDE CONCRETE FLUSH MOW CURB PER ARCHITECTURAL DETAILS.

* F.F. CRITERIA

6" MIN. SKID HEIGHT	18" MAX. SKID HEIGHT
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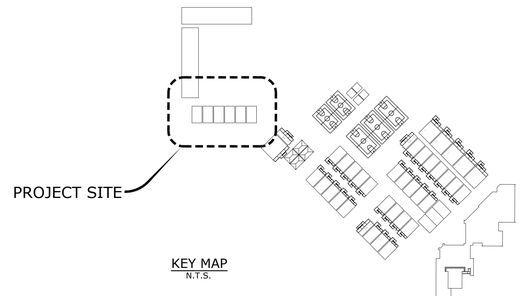
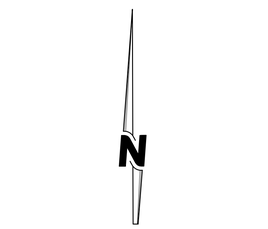


KEY MAP
N.T.S.



10 5 0 10 20 30
SCALE: 1" = 10'

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE GRADING PLAN

File name=N:\Schools\Romo\Granite Hills Upper Campus\DSA\Phase 1\C-3.1.dwg Plot date=10/9/2026 1:24 PM

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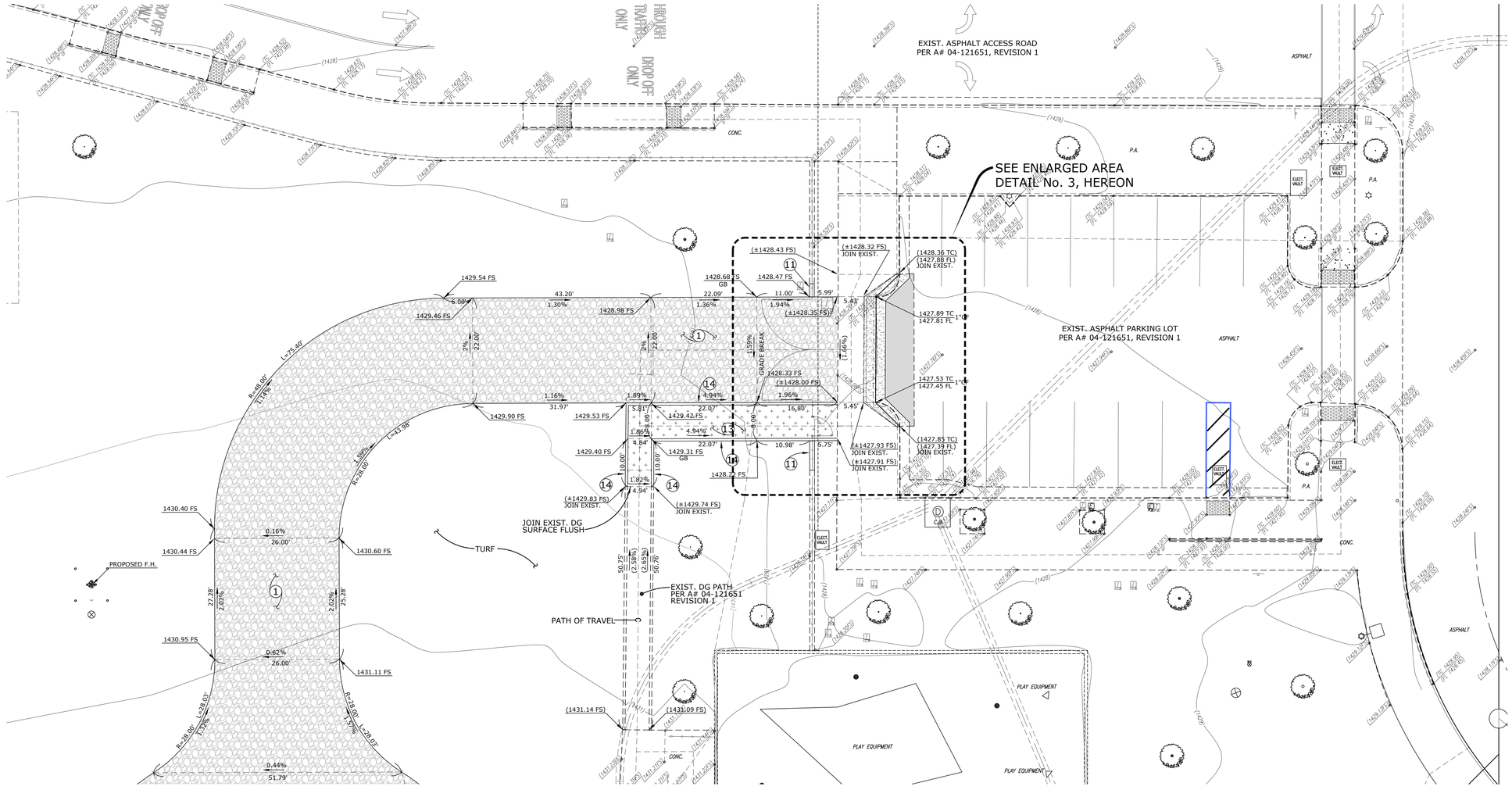
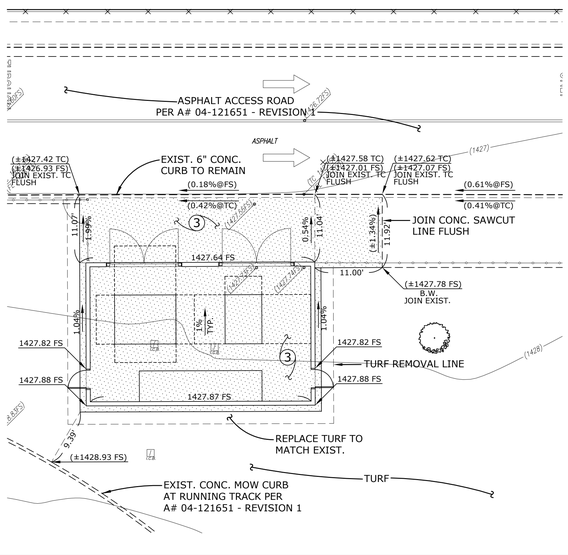
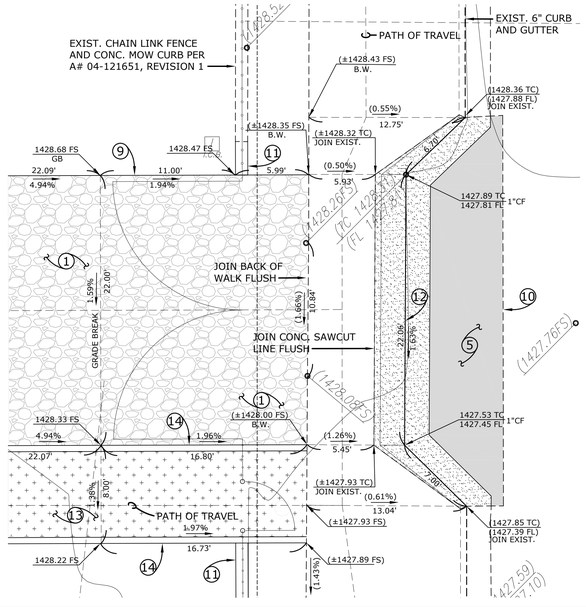
C-3.1



ENLARGED AREA DETAIL SCALE: 1"=10' | 1



ENLARGED AREA DETAIL SCALE: 1"=10' | 2



ENLARGED AREA DETAIL SCALE: 1"=5' | 3

CONSTRUCTION NOTES

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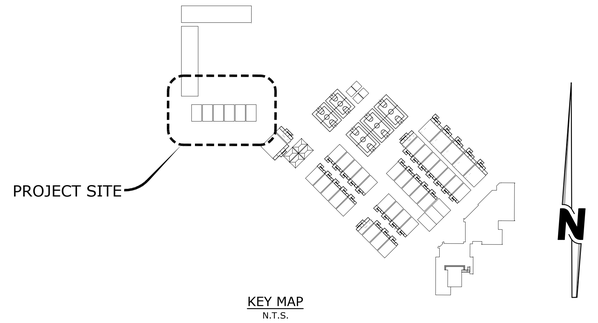
12. CONSTRUCT MOUNTABLE CURB PER DETAIL No. 7, SHEET C-2.0.
13. CONSTRUCT 4" THICK STABILIZED D.G. PATH PER LANDSCAPE PLANS AND SPECIFICATIONS. SEE SITE DEMOLITION NOTE NO. 9.
14. CONSTRUCT 6" WIDE CONCRETE FLUSH MOW CURB PER ARCHITECTURAL DETAILS.



KEY MAP
N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
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PJHM architects

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GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE GRADING PLAN

File name=I:\Schools\Romo\Granite Hills Upper Campus\DSA\Phase 1\C-3.2.dwg Rel. 2026
Plot date: 10/28/2026 8:48 AM

102-0557

C-3.2

NOTICE TO CONTRACTOR:

CONTRACTOR SHALL POTHOLE AND VERIFY EXACT HORIZONTAL AND VERTICAL POSITION OF ALL POINTS OF CONNECTION TO EXISTING WATER FACILITIES. REPORT ANY DISCREPANCIES IN THESE DRAWINGS TO ARCHITECT AND CIVIL ENGINEER PRIOR TO COMMENCEMENT OF ANY WATER CONSTRUCTION.

STA. 0+46.00 SOUTH
EXISTING 8" DCDA

EXIST. 4" DOMESTIC WATER LINE PER A# 04-121651

EXIST. 8" FIRE LINE PER A# 04-121651

APPROX. LOCATION EXIST. ELECTRIC CONDUIT PER CCD-014, A# 04-121651

THROUGH TRAFFIC ONLY

DROP OFF ONLY

CAUTION! X-ING
3/4" ELECTRIC CONDUIT HAND DIG IF NECESSARY

71 79 STA. 1+13.00 SOUTH
STA. 0+00.00 WEST
SADDLE TAP EXISTING

82.84'
N 00°10'48" E

154.94'
N 89°49'12" W

70

STA. 1+54.94 WEST
STA. 0+00.00 SOUTH
73 79

CAUTION! X-ING
4" DOMESTIC WATER LINE HAND DIG IF NECESSARY

82.84'
N 00°10'48" E

70

FUTURE PHASE 2
F.D.C.

FUTURE PHASE 2
P.I.V.

STA. 0+08.00 NORTH
STA. 2+26.93 WEST

STA. 0+08.00 NORTH
FIRE HYDRANT
72 79

TO FUTURE PHASE 2 BUILDINGS

70 8.00'

2'

69.99'
N 89°49'12" w

79 STA. 2+26.93 WEST
6" STUB FOR PHASE 2

STA. 2+24.93 WEST
STA. 0+00.00 NORTH
6" R.S.G.V. NORTH
72 75 79

70

73 79 STA. 0+82.84 SOUTH
STA. 1+54.94 WEST

ASPHALT
CONC.
PLAY EQUIPMENT
P.A.
ELECT. VAULT
(1428)

WATER CONSTRUCTION NOTES (FIRE SERIVCE)

70 INSTALL 6" PVC C-900, CL 200, WATER MAIN (TO INCLUDE ALL FITTINGS), SEE DETAIL No. 3, SHEET C-2.0.

71 INSTALL 8"x 6" SADDLE TAP CONNECTION TO EXISTING 8" FIRE LINE.

72 INSTALL 6" X 6" X 6" D.I. TEE.

73 INSTALL 6" 90° D.I. ELBOW.

74 INSTALL 6" 45° D.I. ELBOW.

75 INSTALL 6" R.S.G.V. PER DETAIL No. 5, SHEET C-2.0.

76 INSTALL 6"x 4"x 2-½" FIRE HYDRANT PER E.M.W.D. STD. DWG. NO. B-517. COMPLETE TO INCLUDE PIPE, 6" VALVE, HYDRANT AND ALL OTHER MATERIALS REQUIRED. SEE DETAIL NO. 1, SHEET C-2.1.

77 REMOVE AND REPLACE EXISTING CONCRETE PAVEMENT TO NEAREST CONCRETE PANEL CONTROL JOINT AT WATER LINE TRENCH.

78 NOT USED.

79 INSTALL THRUST BLOCK PER DETAIL No. 6, SHEET C-2.0.

80 CAP END OF PIPE STUB FOR FUTURE CONNECTION.

PROJECT SITE

SCALE: 1" = 10'

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10/28/2026
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE UTILITY PLAN

102-0557

C-4.0

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REV. # DATE

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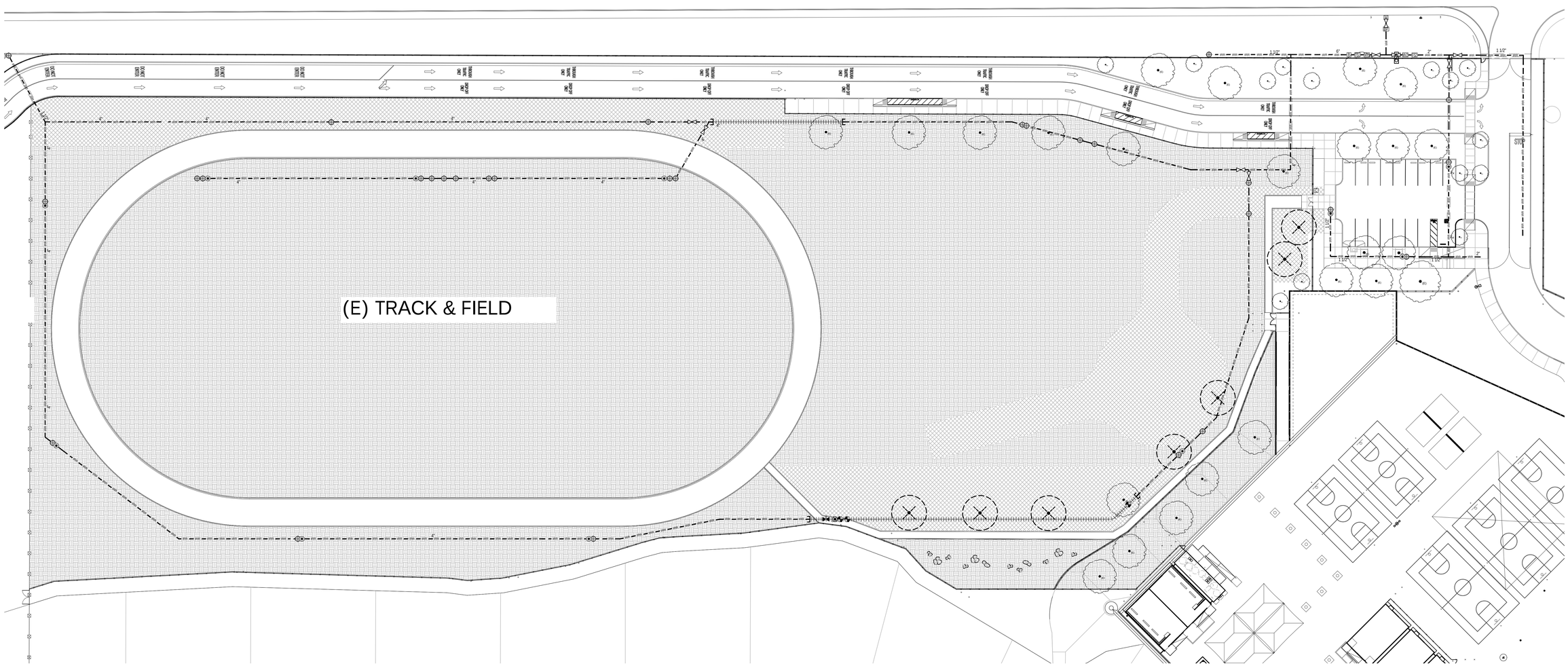
ETHANAC RD.



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LICENSED LANDSCAPE ARCHITECT
DIGGS
SIGNATURE
12/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

OVERALL SITE
LANDSCAPE
DEMOLITION PLAN

LD.A

IRRIGATION VALVE WIRE NOTES:
CONTRACTOR SHALL STUB OUT IRRIGATION VALVES BEING REMOVED IN PULLBOX FOR FUTURE CONNECTION TO NEW IRRIGATION VALVES.

MAINLINE & LATERAL LINES NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE IRRIGATION MAINLINE AND LATERAL LINES IN THE FIELD.

UTILITIES NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES AND TO ENSURE NOT TO DAMAGE ANY UTILITIES. ANY DAMAGE TO THE UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

WATER TO EXISTING PLANT MATERIAL TO REMAIN

EXISTING IRRIGATION SHALL NOT BE SHUT OFF TO EXISTING PLANT MATERIAL TO REMAIN FOR A PERIOD 48 HOURS OR MORE. IN THE EVENT WATER MUST REMAIN OFF, CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING MATERIAL BY ANY MEANS NECESSARY AT THEIR EXPENSE.

GENERAL NOTES

A. ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE LANDSCAPE ARCHITECT'S ATTENTION PRIOR TO WORK.

B. ALL CONSTRUCTION SHALL BE ACCORDING TO CONSTRUCTION DOCUMENTS PREPARED BY INTEGRATED DESIGN GROUP LLP AND SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS.

C. CORRELATION OF DRAWINGS AND SPECIFICATIONS: ANY WORK NOT INDICATED ON THE DRAWINGS BUT CALLED FOR IN THE SPECIFICATIONS, OR VICE-VERSA, SHALL BE FURNISHED AND PERFORMED AS THOUGH SPECIFICALLY INDICATED AND CALLED FOR IN BOTH. ANY WORK NOT INSTALLED ACCORDING TO DRAWINGS AND SPECIFICATIONS OR ORDINANCES AND LAWS SHALL BE REPLACED.

D. DO NOT SCALE DRAWINGS. USE DIMENSIONS INDICATED EXCEPT ON IRRIGATION PLANS.

E. ANY DISCREPANCY IN THE DRAWINGS OR SPECIFICATIONS SHALL BE CALLED TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT. FAILURE TO DO SO WILL PLACE RESPONSIBILITY ON THE CONTRACTOR FOR CORRECTION.

F. PERMITS, FEES, ETC: THE CONTRACTOR SHALL ARRANGE AND PAY FOR THE BUILDING PERMIT AND EACH SUBCONTRACTOR SHALL ARRANGE AND PAY FOR PERMITS FOR THEIR RESPECTIVE WORK.

G. CONTRACTOR SHALL VERIFY ON SITE, ALL DIMENSIONS AND LOCATION OF ANY UNDERGROUND UTILITIES.

EXISTING TREE NOTES

CONTRACTOR SHALL NOT INSTALL ANY PLANT MATERIAL WITHIN 12" OF ANY ROOT SYSTEMS AND SHALL NOT CUT OR DAMAGE ANY ROOT LARGER THAN 2" WITHOUT REVIEW AND WRITTEN APPROVAL BY A CERTIFIED ARBORIST. ANY ILL AFFECTS ON THE HEALTH OF THE EXISTING TREES IS OBSERVED AND WAS A DIRECT RESULT OF THE DISTURBANCE DURING CONSTRUCTION, CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO SAVE THE TREE; IF THE TREE CANNOT BE SAVED, CONTRACTOR SHALL PROVIDE CREDIT FOR TREE AS ESTABLISHED BY CERTIFIED ARBORIST OF OWNERS CHOOSING AND AT CONTRACTORS EXPENSE.

LANDSCAPE DEMOLITION NOTE:
ALL DEMOLITION SHALL COMPLY WITH CHAPTER 33 CBC AND CHAPTER 33 CFC.

DEMOLITION NOTES

1. DEMOLITION AND REMOVAL WORK SHALL BE CAREFULLY PERFORMED TO AVOID DAMAGE TO EXISTING TREES NOTED ON THE PLANS AS REMAINING.
2. ALL REMOVAL WORK (EXCEPT AS NOTED) SHALL BE DISPOSED OF OFF-SITE, IN A LEGAL MANNER, AT THE CONTRACTOR'S EXPENSE.
3. CLEAR THE SITE AS NOTED OF GRASS, WEED GROWTH, RUBBISH, DEBRIS, PAVING, CONCRETE, INACTIVE OR ABANDONED FACILITIES (VERIFIED BY THE AGENCY), ETC., THAT ARE TO BE REMOVED FOR CONSTRUCTION OF THE SITE IMPROVEMENTS TO THE LIMITS AND DEPTHS SHOWN ON THE PLANS.
4. ABANDONED UNDERGROUND FACILITIES (VERIFIED BY THE AGENCY), ROOTS THREE INCHES IN DIAMETER AND LARGER, ROCKS AND BROKEN MASONRY LARGER THAN FOUR INCHES IN ANY DIMENSION SHALL BE REMOVED TO A MINIMUM DEPTH OF 12" BELOW FINISH GRADE.
5. MISCELLANEOUS INACTIVE OR ABANDONED UNDERGROUND FACILITIES LOCATED 12 INCHES OR MORE BELOW FINISH GRADE MAY BE REMOVED.
6. MISCELLANEOUS ACTIVE LINES WITHIN 12 INCHES OF FINISH GRADE THAT ARE UNCOVERED DURING THE GRADING OPERATIONS SHALL BE PROTECTED.
7. ALL DELETERIOUS MATERIALS WITHIN THE LIMITS OF THE WORK SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR, WHO SHALL MAKE ALL NECESSARY ARRANGEMENTS AND PAY ALL RELATED COSTS.
8. ACTIVE UTILITIES SHALL BE PROTECTED BY AND AT EXPENSE OF THE CONTRACTOR. KEEP ANY REQUIRED UTILITY IN OPERATING CONDITIONS DURING ENTIRE PERIOD OF WORK, INCLUDING EXISTING IRRIGATION AND DRAINAGE SYSTEMS FOR LANDSCAPE MAINTENANCE.
9. INACTIVE OR ABANDONED UTILITIES SHALL BE DISCONNECTED, REMOVED, AND PLUGGED OR CAPPED.
10. SHOULD THE CONTRACTOR ENCOUNTER ANY EXISTING UNDERGROUND UTILITIES NOT SHOWN ON THE DRAWINGS, HE SHALL IMMEDIATELY NOTIFY THE AGENCY REPRESENTATIVE WHO WILL DETERMINE FURTHER PROCEDURE.
11. BURNING OF DEBRIS WILL NOT BE PERMITTED.
12. CONSTRUCTION AREAS SHALL BE FENCED FOR SAFETY OF PUBLIC. REFER TO SPECIFICATIONS.
13. CONTRACTOR SHALL PROTECT OR REPLACE ALL UNDERGROUND DRAINAGE LINES AND INLETS DUE TO NEW CONSTRUCTION. CONTRACTOR SHALL SNAKE/ CLEAN OUT ALL DRAINAGE LINES AND INLETS WITHIN LIMIT OF WORK.
14. CONTRACTOR SHALL INSURE THAT IRRIGATION SYSTEM IS NOT SHUT DOWN FOR MORE THAN A 48 HOUR PERIOD.

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Know what's below.
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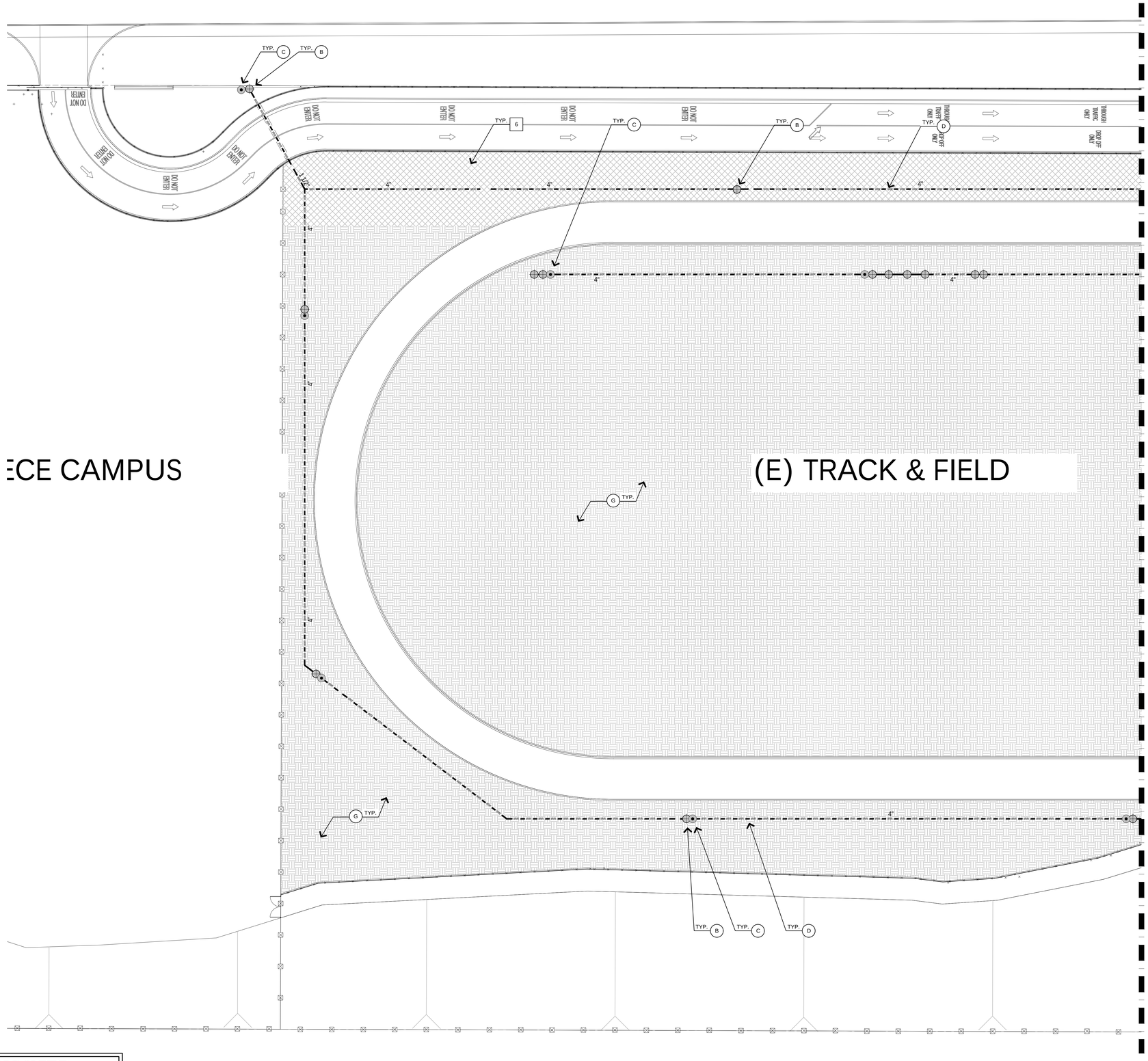
N
W E
S

30' 15' 0' 30' 60' 90'
SCALE: 1" : 30'
GRAPHIC SCALE

REV. # DATE



DEMOLITION LEGEND - ITEMS TO BE REMOVED

SYM.	CALLOUT	DESCRIPTION
	1	· EXISTING TREE(S) TO BE REMOVED AND DISPOSED OF OFFSITE. CONTRACTOR SHALL REMOVE TREE IN THEIR ENTIRETY INCLUDING BUT NOT LIMITED TO ALL LIMBS, TRUNK, AND ROOT SYSTEM. REMOVE STUMP AND MAIN ROOTBALL TO A DEPTH OF 36", 48" FOR LARGER TREES. REMOVE ALL ROOTS BEYOND TREE TRUNK TO A MINIMUM DEPTH OF 6"-12". · FOR TURF AREAS, CONTRACTOR SHALL PATCH AND REPAIR TURF AREA WITH A 50/50 MIX, BLEND NEW TURF TO EXISTING TURF WITH SAME TURF SEED VARIETY. · FOR PLANTING AREAS, CONTRACTOR SHALL FILL HOLE WITH CLEAN TOP SOIL AND MULCH, REFER TO PLANTING PLAN FOR MORE DIRECTION.
	2	EXISTING IRRIGATION VALVE TO BE REMOVED AND TURN OVER TO SCHOOL DISTRICT REPRESENTATIVE. CONTRACTOR SHALL VERIFY THAT EXISTING VALVES BEING DEMOLISHED PERTAIN TO IRRIGATION SYSTEMS ALSO BEING DEMOLISHED. CONTROL WIRES FROM REMOVED VALVES SHALL BE PLACED IN A PULL BOX NEAR THE LANDSCAPE AREA FROM WHICH IT WAS SERVICING.
	3	EXISTING IRRIGATION QUICK COUPLER TO BE REMOVED AND TURN OVER TO SCHOOL DISTRICT REPRESENTATIVE.
	4	EXISTING IRRIGATION MAINLINE TO BE CUT AND CAPPED WHERE SPECIFIED, REMOVED PORTION OF MAINLINE SHALL BE DISPOSED OF OFFSITE.
	5	EXISTING IRRIGATION BALL VALVE TO BE REMOVED AND TURN OVER TO SCHOOL DISTRICT REPRESENTATIVE.
	6	· EXISTING TURF TO BE CLEARED AND GRUBBED. CONTRACTOR SHALL FINE GRADE FOR NEW CONSTRUCTION PER CIVIL'S ENGINEER'S PRECISE GRADING PLANS. CONCERNING THE REMOVAL OF GRASS. DO NOT INCORPORATE SPOILS/GRASS INTO ROTOTILL PROCEDURE. · CONTRACTOR SHALL REMOVE IRRIGATION LATERAL LINES, SWING JOINTS AND IRRIGATION HEADS AND TURN OVER IRRIGATION HEADS AND SWING JOINTS TO SCHOOL DISTRICT REPRESENTATIVE AND DISPOSE OF IRRIGATION LATERAL LINES OFFSITE. · EXISTING SHRUBS AND GROUNDCOVER TO BE REMOVED AND DISPOSED OF OFFSITE. CONTRACTOR SHALL REMOVE SHRUB ROOTS AND SHALL FINE GRADE FOR NEW CONSTRUCTION PER CIVIL'S ENGINEER'S PRECISE GRADING PLANS.
C	7	EXISTING IRRIGATION CONTROLLER TO BE REMOVED AND RELOCATED TO THE NORTH, REFER TO IRRIGATION PLANS FOR LOCATION. ELECTRICAL COORDINATION SHALL BE REQUIRED TO ALLOW FOR THE CONTINUATION OF IRRIGATION THROUGHOUT THE CAMPUS. CONTROLLER MUST NOT BE WITHOUT POWER FOR MORE THAN 48 HOURS

DEMOLITION LEGEND - ITEMS TO REMAIN

SYMBOL	CALLOUT	DESCRIPTION
	A	EXISTING TREES TO REMAIN. PROTECT IN PLACE.
	B	EXISTING VALVE(S) TO REMAIN. PROTECT IN PLACE. CONTRACTOR SHALL VERIFY IN THE FIELD THAT THE IRRIGATION SYSTEM PERTAINS TO THE IRRIGATION SYSTEM THAT IS TO REMAIN.
	C	EXISTING QUICK COUPLER TO REMAIN. PROTECT IN PLACE.
	D	EXISTING IRRIGATION MAINLINE TO REMAIN. PROTECT IN PLACE.
	E	EXISTING BALL VALVE TO REMAIN. PROTECT IN PLACE.
	F	EXISTING IRRIGATION MAINLINE TO BE CUT AND CAP AT THIS APPROXIMATE LOCATION.
	G	· EXISTING TURF / PLANT MATERIAL TO REMAIN. PROTECT IN PLACE. EXISTING IRRIGATION SYSTEM TO REMAIN. PROTECT IN PLACE. · CONTRACTOR SHALL CUT AND CAP LATERAL LINE WHERE SPECIFIED AND RECONNECT PER IRRIGATION PLANS.
M	H	EXISTING WATER METER TO REMAIN. PROTECT IN PLACE.
BP	II	EXISTING BOOSTER PUMP TO REMAIN. PROTECT IN PLACE.
MV1 MV2	J	EXISTING MASTER VALVE(S) TO REMAIN. PROTECT IN PLACE.
FS1 FS2	K	EXISTING FLOW SENSOR(S) TO REMAIN. PROTECT IN PLACE.
P	L	EXISTING PULLBOX TO REMAIN. PROTECT IN PLACE.

IRRIGATION VALVE WIRE NOTES:
CONTRACTOR SHALL STUB OUT IRRIGATION VALVES BEING REMOVED IN PULLBOX FOR FUTURE CONNECTION TO NEW IRRIGATION VALVES.

MAINLINE & LATERAL LINES NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE IRRIGATION MAINLINE AND LATERAL LINES IN THE FIELD.

UTILITIES NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES AND TO ENSURE NOT TO DAMAGE ANY UTILITIES. ANY DAMAGE TO THE UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

WATER TO EXISTING PLANT MATERIAL TO REMAIN

EXISTING IRRIGATION SHALL NOT BE SHUT OFF TO EXISTING PLANT MATERIAL TO REMAIN FOR A PERIOD 48 HOURS OR MORE. IN THE EVENT WATER MUST REMAIN OFF, CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING MATERIAL BY ANY MEANS NECESSARY AT THEIR EXPENSE.

EXISTING TREE NOTES

CONTRACTOR SHALL NOT INSTALL ANY PLANT MATERIAL WITHIN 12" OF ANY ROOT SYSTEMS AND SHALL NOT CUT OR DAMAGE ANY ROOT LARGER THAN 2" WITHOUT REVIEW AND WRITTEN APPROVAL BY A CERTIFIED ARBORIST. ANY ILL AFFECTS ON THE HEALTH OF THE EXISTING TREES IS OBSERVED AND WAS A DIRECT RESULT OF THE DISTURBANCE DURING CONSTRUCTION, CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO SAVE THE TREE; IF THE TREE CANNOT BE SAVED, CONTRACTOR SHALL PROVIDE CREDIT FOR TREE AS ESTABLISHED BY CERTIFIED ARBORIST OF OWNERS CHOOSING AND AT CONTRACTORS EXPENSE.

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SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEMPEL
NO. C34608
REN.12/27
STATE OF CALIFORNIA

LICENSED LANDSCAPE ARCHITECT
DEREK DIGGS
SIGNATURE
12/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

LANDSCAPE
DEMOLITION PLAN

LD.1

REV. # DATE

ETHANAC RD.

SEE SHEET LD.1

SEE SHEET LD.1

CONTRACTOR SHALL FIELD VERIFY MAINLINE AND IRRIGATION COMPONENTS IN VALVE BOXES. CONTRACTOR SHALL PLACE WIRES FROM REMOVED VALVES BEING RELOCATED ADJACENT TO WHERE THEY WILL BE RELOCATED. CONTRACTOR TO VERIFY QUANTITY, HOWEVER, IT APPEARS TO BE TWO (2) VALVE BOXES IN THIS APPROXIMATE LOCATION.

CONTRACTOR SHALL FIELD VERIFY MAINLINE AND IRRIGATION COMPONENTS IN VALVE BOXES. CONTRACTOR SHALL PLACE WIRES FROM REMOVED VALVES BEING RELOCATED ADJACENT TO WHERE THEY WILL BE RELOCATED. CONTRACTOR TO VERIFY QUANTITY, HOWEVER, IT APPEARS TO BE THREE (3) VALVE BOX IN THIS APPROXIMATE LOCATION.

CONTRACTOR SHALL FIELD VERIFY MAINLINE AND COORDINATE WITH UTILITIES INSTALLATIONS/ IMPROVEMENTS IN THIS AREA. IN THE EVENT A MAINLINE HAS TO BE CUT, CONTRACTOR SHALL INSTALL NEW PORTIONS OF MAINLINE AND REROUTE AS REQUIRED.

CONTRACTOR SHALL FIELD VERIFY MAINLINE AND COORDINATE WITH UTILITIES INSTALLATIONS/ IMPROVEMENTS IN THIS AREA. IN THE EVENT A MAINLINE HAS TO BE CUT, CONTRACTOR SHALL INSTALL NEW PORTIONS OF MAINLINE AND REROUTE AS REQUIRED.

CONTRACTOR SHALL FIELD VERIFY MAINLINE AND COORDINATE WITH UTILITIES INSTALLATIONS/ IMPROVEMENTS IN THIS AREA. IN THE EVENT A MAINLINE HAS TO BE CUT, CONTRACTOR SHALL INSTALL NEW PORTIONS OF MAINLINE AND REROUTE AS REQUIRED.

CONTRACTOR TO RELOCATE ALL EXISTING BOULDER TO NEW LOCATION PER PLANTING PLAN

CONTRACTOR SHALL HAND DIG ADJACENT TO EXISTING TREES TO AVOID CUTTING ANY ROOT LARGER THAN 2".

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LANDSCAPE DEMOLITION NOTES:
REFER TO SHEETS LD.A AND LD.1 FOR NOTES

N W E S

20' 10' 0' 20' 40' 60'

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GRAPHIC SCALE

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APP: 04-125701 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT — DEREK C. STEMR — NO. C34608 REN.12/27 — STATE OF CALIFORNIA

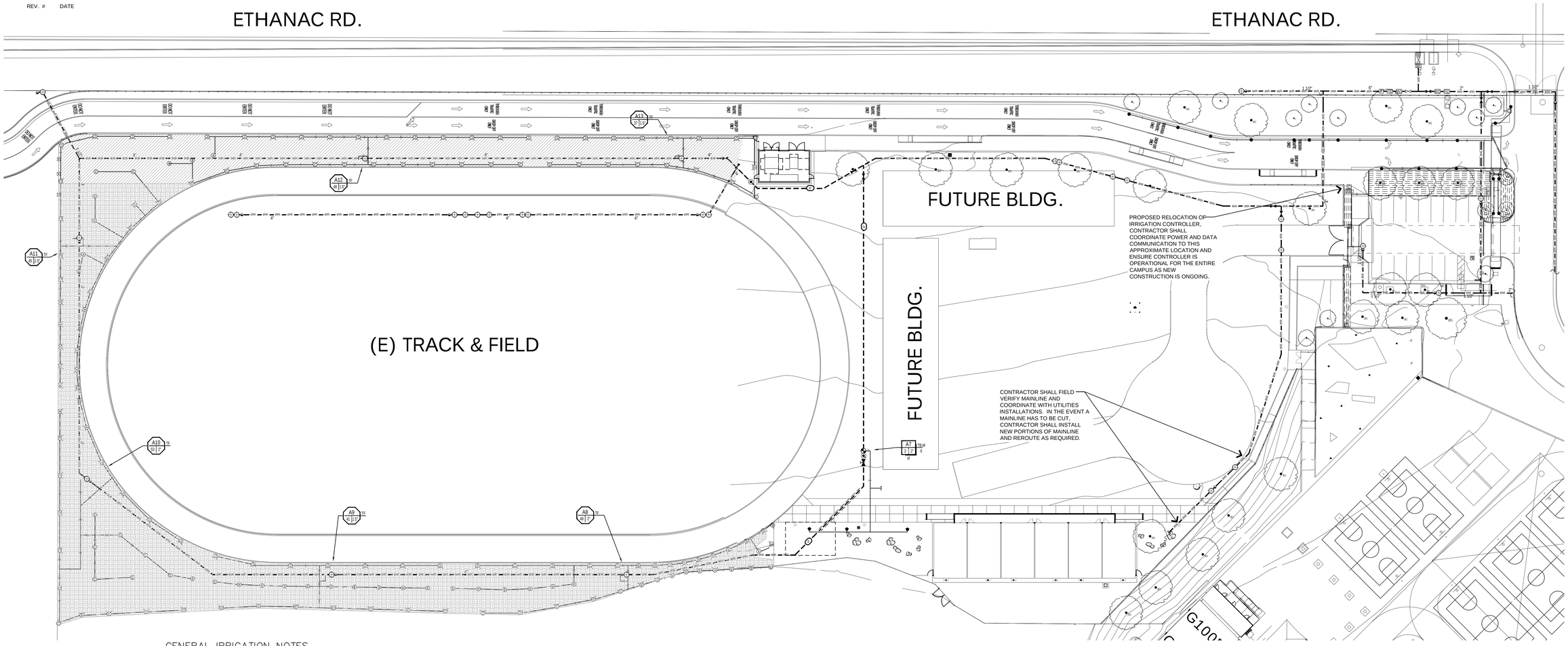
LANDSCAPE DESIGNER — DIGGS — SIGNATURE — 12/31/2027 RENEWAL DATE — STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

LANDSCAPE
DEMOLITION PLAN

LD.2

REV. # DATE



GENERAL IRRIGATION NOTES

1. ALL DIMENSIONS & CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR ON THE JOB SITE. ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE LANDSCAPE ARCHITECTS AND OWNERS REPRESENTATIVE ATTENTION PRIOR TO COMMENCEMENT OF WORK.
2. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, SLOPES, LOCATION OF WALLS, CURBS, ETC. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR LOCATION OF PIPE SLEEVES THROUGH WALLS AND FOOTINGS, UNDER ROADS, PAVING AND STRUCTURES.
3. THE IRRIGATION DESIGN SHOWN IN THESE DOCUMENTS ARE INTENDED TO BE GENERALLY DIAGRAMMATIC. ALL IRRIGATION EQUIPMENT I.E PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR PLAN CLARIFICATION ONLY AND SHALL BE INSTALLED WITHIN PLANTING AREAS WHEREVER POSSIBLE UNLESS WRITTEN AUTHORIZATION IS RECEIVED PRIOR TO PLACEMENT. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES.
4. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADE DIFFERENCES OR FIELD/PLAN DIMENSIONS EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR REVISIONS NECESSARY AND ALL COSTS FOR REVISIONS NECESSARY FOR A COMPLETE INDUSTRY ACCEPTABLE WORKING SYSTEM.
5. THE IRRIGATION SYSTEM DESIGN IS BASED UPON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS AT EACH POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION SHALL BE IMMEDIATELY REPORTED IN WRITING TO THE OWNER'S AUTHORIZED REPRESENTATIVE. IF THE PRESSURE DIFFERENCES ARE NOT IMMEDIATELY REPORTED PRIOR TO BEGINNING CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS TO THE IRRIGATION SYSTEM DEEMED NECESSARY BY THE OWNER'S REPRESENTATIVE AND ALL COSTS ASSOCIATED WITH SAID REVISIONS.
6. THE IRRIGATION CONTRACTOR MUST PERFORM AND DOCUMENT IN WRITING A PRE-JOB/ KICK-OFF MEETING WITH THE MANUFACTURER REPRESENTATIVES OF SPECIAL EQUIPMENT INCLUDING BUT NOT LIMITED TO DRIP TUBING, CONTROLLER & BOOSTER PUMP MANUFACTURER TO GO OVER SITE SPECIFIC ITEMS, LAYOUT AND RECEIVE PROPER TRAINING. IF IRRIGATION CONTRACTOR FAILS TO PERFORM REQUIRED MEETING, CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS TO THE IRRIGATION SYSTEM DEEMED NECESSARY BY THE OWNER'S REPRESENTATIVE AND ALL COSTS ASSOCIATED WITH SAID REVISIONS.
7. MAINLINE PIPING BETWEEN THE POINT OF CONNECTION, METER AND BACKFLOW PREVENTER TO BE OF MATERIAL AS REQUIRED BY GOVERNING WATER DISTRICT.
8. ALL PIPES AND WIRES THAT RUN UNDER HARDSCAPE ARE TO BE SLEEVED IN SCH. 40 PVC SLEEVES ACCORDING TO PURVEYING (DISTRICT, CITY, ETC.) STANDARDS, SPECS AND AS INDICATED IN THE SLEEVING CHART UNLESS WRITTEN AUTHORIZATION IS RECEIVED PRIOR TO ELIMINATING ANY SECTIONS.
9. CONTRACTOR SHALL USE HEAVY BODY GRAY GLUE (WELD-ON 711 OR EQUAL) WITH PVC PRIMER (P-70 OR EQUAL) ON ALL GLUED JOINTS. NO RED HOT BLUE GLUE ALLOWED. TEFLON TAPE SHALL BE APPLIED TO ALL MALE THREADS AS REQUIRED BY MANUFACTURER. NO PIPE DOPE ALLOWED.
10. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR FLUSHING ALL LINES AND ADJUSTING ALL HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER-SPRAY ONTO UN-INTENDED AREAS (WALKS, & BUILDINGS). ADJUSTMENT SHALL INCLUDE BUT NOT LIMITED TO THE ADDITION OF "PRS" SCREENS, ADJUSTABLE ARC NOZZLES (HE VERSIONS ONLY), ADJUSTING PRESSURE REGULATOR AT THE VALVE TO BE NO GREATER THAN SPSI ABOVE THE INDICATED HEAD PRESSURE AT THE FARTHEST HEAD, FOR ADDITIONAL HEADS WHERE VERTICAL ELEMENTS IN FIELD BLOCK SPRAY PATTERN AND ADDING INLINE CHECK VALVES WHERE LOW HEAD DRAINAGE OCCURS AT NO EXTRA COST TO THE OWNER.
11. IRRIGATION CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT/ OWNERS REPRESENTATIVE MINIMUM 72 HOURS PRIOR TO ANY REQUEST OF FIELD OBSERVATIONS. FIELD OBSERVATIONS SHALL OCCUR AT THE FOLLOWING MILESTONES:
    A. COVERAGE TEST ONCE ALL IRRIGATION IS INSTALLED, NO PLANTING MAY OCCUR UNTIL REVIEW HAS BEEN COMPLETED AND IRRIGATION SYSTEM APPROVED.
    B. UPON COMPLETION OF PLANTING AND IRRIGATION FOR SUBSTANTIAL COMPLETION ISSUANCE.
    C. UPON COMPLETION OF MAINTENANCE PERIOD FOR FINAL WALK AND RELEASE OF MAINTENANCE.

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PRE-CONSTRUCTION SITE WALK AND DOCUMENTATION:
CONTRACTOR SHALL WALK SCOPE AND AREAS JUST BEYOND, OPERATE ALL COMPONENTS AND DOCUMENT ANY DEFICIENCIES OBSERVED IN WRITING AND WITH SUPPORTING PHOTOS. PACKAGE SHALL BE PROVIDED TO OWNER AND LANDSCAPE ARCHITECT. ANY ITEMS DEEMED NON-OPERATIONAL AT TURN OVER WALK THAT WAS NOT DOCUMENTED IN INITIAL REPORT, SHALL BE DEEMED TO HAVE OCCURRED DUE TO CONSTRUCTION AND SHALL BE REPAIRED OR REPLACED (INCLUDING AFFECTED PLANT MATERIAL) AT NO COST TO OWNER.

SITE VERIFICATION NOTE:
CONTRACTOR SHALL VERIFY AND BECOME FAMILIAR WITH THE SITE AND THE ITEMS ASSOCIATED WITH THEIR SCOPE OF WORK INCLUDING BUT NOT LIMITED TO CONTROLLER LOCATION, MAINLINE LOCATION, OPEN STATIONS ON CONTROLLER, WIRE RUNS, ETC. CONTRACTOR SHALL PROCEED AS STATED PRIOR TO BIDDING AND AGAIN PRIOR TO START OF CONSTRUCTION.

DESIGN PRESSURE NOTE:
CONTRACTOR TO VERIFY PRIOR TO STARTING JOB THAT EXISTING WATER PRESSURE IS SUFFICIENT TO RUN SYSTEM. IF THERE IS NOT ENOUGH WATER PRESSURE AT THE SITE TO RUN THE SYSTEM, CONTRACTOR SHALL CONTACT ARCHITECT.

CHECK VALVE NOTE:
CONTRACTOR SHALL INSTALL LINE CHECK VALVE IF NEEDED TO INSURE NO RUN OFF.

SLEEVING NOTE:
CONTRACTOR TO SLEEVE ALL MAINLINES, LATERALS AND CONTROLLER WIRES, UNDER ANY HARDSCAPE.

IRRIGATION MAINLINE NOTES:
CONTRACTOR SHALL INSTALL IRRIGATION MAINLINE, LATERAL LINES, VALVES, AND IN PLANTING AREAS WHERE EVER POSSIBLE. SHOWN FOR GRAPHIC CLARITY ONLY.

California Water Efficient Landscape Worksheet

Reference Evapotranspiration (ET_o)		56.65		Project Type	Non-Residential		0.45
Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF X Area	Estimated Total Water Use (ETWU)
Regular Landscape Areas							
A7 / Tree Bubblers	0.5	Drip	0.81	0.62	30	19	401
Totals				0.62	30	19	401
Special Landscape Areas							
A1-A3, A5, A8-A29				1.0	-	-	-
B29-B30 / Turf				1.0	-	-	-
				1.0	-	-	-
				1.0	-	-	-
				Totals	-	-	-
						ETWU Total	401
					Maximum Allowed Water Allowance (MAWA) Gallons		474

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	19
Total Area	30
Average ETAF	0.62

All Landscape Areas	
Total ETAF x Area	19
Total Area	30
Average ETAF	0.62

REMOTE CONTROL VALVE SIZING CHART	
RAINBIRD EFB-CP SERIES	
GPM	VALVE SIZE
0-20	1"
21-50	1-1/2"
51-120	2"
65-140	2-1/2"
141-180	3"

LATERAL LINE SIZING CHART - SCH. 40	
GPM	PIPE SIZE
0-6	3/4"
7-12	1"
13-20	1-1/4"
21-30	1-1/2"
31-45	2"
46-70	2-1/2"
71+	3"

LATERAL PIPE SIZING	
	3/4" PIPE
	1" PIPE
	1 1/4" PIPE
	1 1/2" PIPE
	2" PIPE
	2 1/2" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

SCH 40 PVC SLEEVING CHART

1 1/4" SLEEVE	1-8 WIRES	1/2" PIPE
1 1/2" SLEEVE	9-16 WIRES	3/4" PIPE
2" SLEEVE	17-26 WIRES	1" PIPE
2 1/2" SLEEVE	27-38 WIRES	1 1/4" PIPE
3" SLEEVE	39-54 WIRES	1 1/2" PIPE
4" SLEEVE	55-100 WIRES	2" PIPE
6" SLEEVE	100+ WIRES	3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

CONTROLLER — STATION #
FLOW (GPM) — VALVE SIZE

LEGEND REFERENCE NOTE:
REFER TO SHEET LI.1 FOR IRRIGATION LEGEND AND NOTES.

N W E S

30' 15' 0' 30' 60' 90'
SCALE: 1" : 30'
GRAPHIC SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM arch tects

LICENSED ARCHITECT
DEREK C. STEMPEL
NO. C34608
REN.12/27
STATE OF CALIFORNIA

LANDSCAPE ARCHITECT
DEREK C. STEMPEL
DIGGS
SIGNATURE
12/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

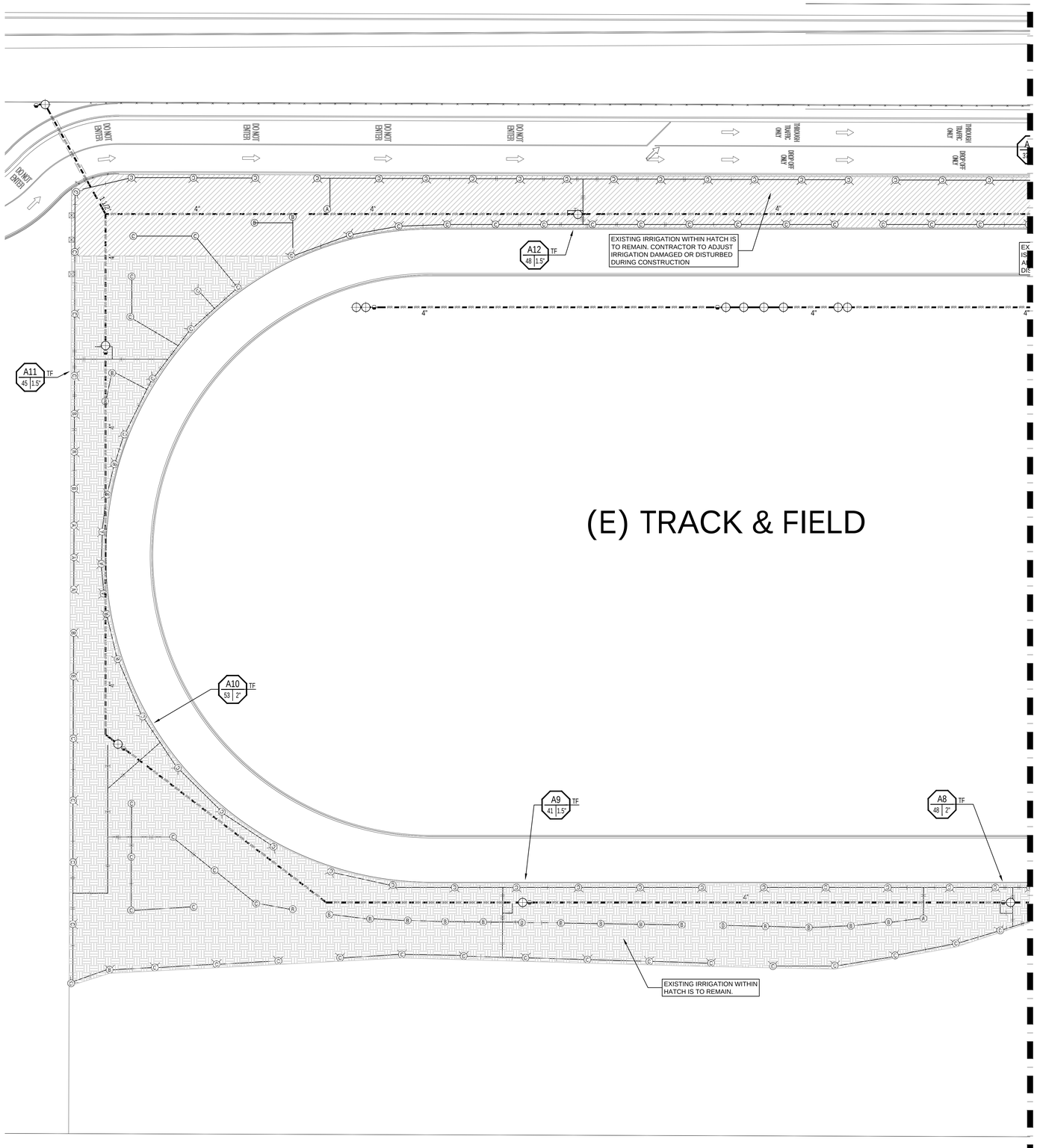
GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

OVERALL SITE
LANDSCAPE
IRRIGATION PLAN

LI.A

REV. # DATE

ETHANAC RD.



IRRIGATION LEGEND - EQUIPMENT

SYMBOL	MANUF.	MODEL	REMARKS					DTL. REF.
⬟	RAIN BIRD	RWS-M-B-C-1401 (2 PER SYMBOL / TREE)		BUBBLER	0.25	30	N/A	A-B / SHEET LID.2
(A)	HUNTER	PROS-06-PRS30-CV + MP1000-90/210	ADJ	POP-UP	0.21 / 0.42	40	8'-15'	A / SHEET LID.1
(A)	HUNTER	PROS-06-PRS30-CV + MP1000-360	360	POP-UP	0.84	40	8'-15'	A / SHEET LID.1
(B)	HUNTER	PROS-06-PRS30-CV + MP2000-90/210	ADJ	POP-UP	0.43 / 0.77	40	13'-21'	A / SHEET LID.1
(B)	HUNTER	PROS-06-PRS30-CV + MP2000-360	360	POP-UP	1.48	40	13'-21'	A / SHEET LID.1
(C)	HUNTER	PROS-06-PRS30-CV + MP3000-90/210	ADJ	POP-UP	0.86 / 1.82	40	22'-30'	A / SHEET LID.1
(C)	HUNTER	PROS-06-PRS30-CV + MP3000-360	360	POP-UP	3.64	40	22'-30'	A / SHEET LID.1
M	EXISTING 2" WATER METER TO REMAIN, PROTECT IN PLACE.							
BP	EXISTING BACKFLOW PREVENTER TO REMAIN, PROTECT IN PLACE.							
MV	MV	EXISTING 3" NORMALLY OPEN AND 1" NORMALLY OPEN MASTER VALVE TO REMAIN, PROTECT IN PLACE.						
FSU	FSU	EXISTING 3" AND 1" FLOW SENSOR TO REMAIN, PROTECT IN PLACE.						
AR	EXISTING AIR RELIEF VALVE TO REMAIN, PROTECT IN PLACE.							
	EXISTING GATE VALVE TO REMAIN, PROTECT IN PLACE.							
C	EXISTING WEATHERTRAK 72 STATION CONTROLLER TO REMAIN, PROTECT IN PLACE.							
P	EXISTING IRRIGATION BOOSTER PUMP TO REMAIN, PROTECT IN PLACE.							
	EXISTING IRRIGATION REMOTE CONTROL VALVE TO REMAIN, PROTECT IN PLACE.							
	EXISTING IRRIGATION REMOTE CONTROL VALVE TO REMAIN, PROTECT IN PLACE.							
	RAINBIRD	EFB-CP-PRS-D SERIES	REMOTE CONTROL VALVE WITH ALL PURPOSE SOLENOID INSTALL IN PLANTER AREAS - TYPICAL					I / SHEET LID.1
	NETAFIM USE W/ VALVE ABOVE	LVCZNV10075-LF LVCZNV10075-HF LVCZ-150-NV	LOW VOLUME CONTROL ZONE KIT- LOW FLOW (.25-4.4 GPM) LOW VOLUME CONTROL ZONE KIT- HIGH FLOW (4.5- 17.6 GPM) LOW VOLUME CONTROL ZONE KIT- HIGH FLOW (11-35 GPM)						D / SHEET LID.2 REF VALVE CALLOUT FOR GPM DEMAND
	RAINBIRD	44 LRC	QUICK COUPLER W/ YELLOW RUBBER LOCK COVER INSTALL IN PLANTER AREAS - TYPICAL					J / SHEET LID.1
T		T-585-70-66 SERIES - 2" AND SMALLER F-619-SCN (2.5"+)	BR0NZE BALL VALVE WITH SCREW-IN BONNET (SIZE PER MAINLINE LINE SIZE) INSTALL IN PLANTER AREAS - TYPICAL					K-L / SHEET LID.1
	NETAFIM	TLHCVXR7-1810	PSI COMP. DRIPPERLINE W/ CHECK VALVE - PRS TO BE 45 PSI MODEL. E-K / SHEET LID.2 TECHLINES SHALL BE SPACED APPROX. 6" OFF PERIMETER EDGE AND 18" O.C. AS SHOWN PER PLAN. HEADERS (SUPPLY& EXHAUST) SHALL BE 3/4" PVC PIPE UNLESS OTHERWISE NOTED. CHECK VALVE HOLDS BACK 4.6' (8.5' HCVXR) OF WATER.					
F	SPEARS	2000 COMPACT	LINE FLUSHING VALVE IN ROUND VALVE BOX. LINE SIZE					L / SHEET LID.2
	HUNTER/ GPH	ECO INDICATOR	OPERATION/ PRESSURE INDICATOR STAKE AND TEST PORT.					M / SHEET LID.2
AS NEEDED/ NO SYMBOL SHOWN	KING BROS	CHECK VALVE	PROVIDE SWING CHECK VALVE UPHILL WATER FLOW & SPRING CHECK VALVE WHEN DIRECTION OF FLOW IS DOWNHILL. SIZE PER MANU.					N / SHEET LID.1
	P.V.C.	SCH 40 MIN PIPE SIZE ¾"	1-1/2" & SMALLER NON-PRESSURE LATERAL LINE WITH SCH. 40 FITTINGS. THREADED FITTINGS SHALL BE SCH. 80 (SIZE PER PLAN) BURY 12" BELOW FINISH GRADE.					D-E / SHEET LID.1
		CLASS 315	2" - 4" NON-PRESSURE LATERAL LINE WITH SCH. 40 FITTINGS. THREADED FITTINGS SHALL BE SCH. 80 (SIZE PER PLAN) BURY 12" BELOW FINISH GRADE.					
	P.V.C.	SCH. 40 MIN PIPE SIZE 1"	1-1/2" & SMALLER PRESSURE MAINLINE WITH SCH. 80 FITTINGS. (SIZE PER PLAN) BURY 24" BELOW FINISH GRADE.					D-F / SHEET LID.1
		CLASS 315	2" - 3" PRESSURE MAINLINE WITH SCH. 80 FITTINGS. (SIZE PER PLAN) BURY 24" BELOW FINISH GRADE.					
		CLASS 200 BELL END GASKET	PRESSURE MAINLINE 4" AND LARGER FITTINGS SHALL BE LEEMCO, INC. DUCTILE IRON SELF- RESTRAINED FITTINGS. PIPE TO PIPE SHALL BE LPP SERIES. INSTALL PER MANUFACTURERS RECOMMENDATIONS. CONTRACTOR SHALL INSTALL THRUST BLOCS AT EVERY BEND AND CHANGE IN DIRECTION, INCLUDING UNDER LEEMCO JOINT RESTRAINTS.					
	P.V.C.	SCH. 40	SLEEVE FOR LATERAL LINE / PRESSURE MAINLINE (TWO X THE DIA. OF PIPE). BURIED 18/24" BELOW FINISH GRADE/ SUB-GRADE. EXTEND 12" BEYOND EDGE OF PAVING.					E / SHEET LID.1
	P.V.C.	SCH. 40	SLEEVE FOR CONTROLER WIRES - SIZE PER SLEEVING CHART ON PLANS - BURIED 18/24" BELOW FINISH GRADE/ SUB-GRADE. EXTEND 12" BEYOND EDGE OF PAVING.					E / SHEET LID.1
PB	PULL BOX FOR VALVE/FLOW SENSOR WIRES. INSTALL IN PLANTER AREAS WHENEVER POSSIBLE.CONCRETE BOXES TO BE USED IN HARDSCAPE AREAS. IN ADDITION TO BOXES SHOWN ON PLANS CONTRACTOR SHALL INSTALL ADDITIONAL BOXES AS NOTED PER WIRE/ CONDUIT NOTE.							M / SHEET LID.1

REMOTE CONTROL VALVE SIZING CHART	
RAINBIRD EFB-CP SERIES	
GPM	VALVE SIZE
0-20	1"
21-50	1-1/2"
51-120	2"
65-140	2-1/2"
141-180	3"

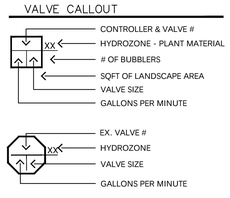
LATERAL LINE SIZING CHART - SCH. 40	
GPM	PIPE SIZE
0-6	3/4"
7-12	1"
13-20	1-1/4"
21-30	1-1/2"
31-45	2"
46-70	2-1/2"
71+	3"

LATERAL PIPE SIZING	
	3/4" PIPE
	1" PIPE
	1 1/4" PIPE
	1 1/2" PIPE
	2" PIPE
	2 1/2" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

SCH 40 PVC SLEEVING CHART

1 1/4" SLEEVE	1-8 WIRES	1/2" PIPE
1 1/2" SLEEVE	9-16 WIRES	3/4" PIPE
2" SLEEVE	17-26 WIRES	1" PIPE
2 1/2" SLEEVE	27-38 WIRES	1 1/4" PIPE
3" SLEEVE	39-54 WIRES	1 1/2" PIPE
4" SLEEVE	55-100 WIRES	2" PIPE
6" SLEEVE	100+ WIRES	3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

VALVE CALLOUT



HYDROZONE:
H HIGH
M MEDIUM
L LOW
TF TURF
PS PALM SPRAY HEADS
TB TREE BUBBLERS
SB SHRUB BUBBLERS
SD SHRUB DRIP TUBING
SP SPRAY HEADS
MP MP ROTATORS
R ROTORS

LEGEND REFERENCE NOTE:
REFER TO SHEET LI.1 FOR IRRIGATION LEGEND AND NOTES.



20' 10' 0' 20' 40' 60'

SCALE: 1" : 20'
GRAPHIC SCALE

DIGALERT
AT LEAST TWO DAYS BEFORE YOU DIG
811
Know what's below.
Call 811 before you dig.

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEMPEL
NO. C34608
REN.12/27
STATE OF CALIFORNIA

LANDSCAPE IRRIGATION PLAN

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

LI.1

REV. # DATE

ETHANAC RD.

SEE SHEET LI.1

SEE SHEET LI.1

FUTURE BLDG.

FUTURE BLDG.

CONTRACTOR TO REROUTE NEW MAINLINE AROUND NEW ENCLOSURE. EXISTING GATE VALVES TO BE LOCATED IN THE FIELD AND RELOCATED IF NEEDED.

CONTRACTOR SHALL FIELD VERIFY MAINLINE AND IRRIGATION COMPONENTS IN VALVE BOXES. CONTRACTOR SHALL PLACE WIRES FROM REMOVED VALVES BEING RELOCATED ADJACENT TO WHERE THEY WILL BE RELOCATED. CONTRACTOR TO VERIFY QUANTITY, HOWEVER, IT APPEARS TO BE TWO (2) VALVE BOXES IN THIS APPROXIMATE LOCATION.

CONTRACTOR TO REROUTE NEW MAINLINE AROUND NEW ENCLOSURE. EXISTING GATE VALVES TO BE LOCATED IN THE FIELD AND RELOCATED IF NEEDED.

CONTRACTOR TO BE RELOCATED TO THE NORTH WITHIN THE SAME PLANTER TO ACCOMMODATE THE IMPROVEMENTS DURING PHASE 1 & 2. CONTRACTOR SHALL COORDINATE ELECTRICAL POWER PRIOR TO RELOCATION TO ENSURE CAMPUS IS NOT WITHOUT WATER FOR IRRIGATION.

EXISTING IRRIGATION SHOWN FOR REFERENCE, CONTRACTOR TO MAKE SLIGHT ADJUSTMENTS AS REQUIRED BY NEW CONSTRUCTION

APPROXIMATE LOCATION OF EXISTING IRRIGATION CONTROLLER TO BE RELOCATED PER NEW FIRE LANE.

CONTRACTOR TO REMOVE PLANTING AND IRRIGATION AREA ACCOMMODATE THE IMPROVEMENTS DURING PHASE 2. CONTRACTOR SHALL ADJUST THE EXISTING IRRIGATION AS REQUIRED. INCLUDING BUT NOT LIMITED TO QUICK COUPLER, VALVE, DRIPLINES, PVC HEADER, AND CONTROLLER.

EXISTING IRRIGATION WITHIN HATCH IS TO REMAIN. CONTRACTOR TO ADJUST IRRIGATION DAMAGED OR DISTURBED DURING CONSTRUCTION

CONTRACTOR TO ADD THREE TO NEW TO EDGE OF TURF AREA

CONTRACTOR TO ADJUST IRRIGATION DUE TO NEW CONSTRUCTION

CONTRACTOR SHALL FIELD VERIFY MAINLINE AND IRRIGATION COMPONENTS IN VALVE BOXES. CONTRACTOR SHALL PLACE WIRES FROM REMOVED VALVES BEING RELOCATED ADJACENT TO WHERE THEY WILL BE RELOCATED. CONTRACTOR TO VERIFY QUANTITY, HOWEVER, IT APPEARS TO BE THREE (3) VALVE BOXES IN THIS APPROXIMATE LOCATION.

CONTRACTOR SHALL CUT AND CAP MAINLINE AT THIS APPROXIMATE LOCATION.

CONTRACTOR SHALL STUB OUT LATERAL LINE FOR FUTURE CONNECTION DURING PHASE 2

CONTRACTOR TO REROUTE NEW MAINLINE AS SHOWN, PLACE SLEEVE ANY HARDSCAPE IF APPLICABLE.

CONTRACTOR TO ADD THREE TO NEW TO EDGE OF TURF AREA, FULL HEAD REQUIRES TO BE RELOCATED TO THIS LOCATION

EXISTING IRRIGATION WITHIN HATCH IS TO REMAIN.

G100B'

G100A'

'F205'

'F204'

'F203'

REMOTE CONTROL VALVE SIZING CHART	
RAINBIRD EFB-CP SERIES	
GPM	VALVE SIZE
0-20	1"
21-50	1-1/2"
51-120	2"
65-140	2-1/2"
141-180	3"

LATERAL LINE SIZING CHART - SCH. 40	
GPM	PIPE SIZE
0-6	3/4"
7-12	1"
13-20	1-1/4"
21-30	1-1/2"
31-45	2"
46-70	2-1/2"
71+	3"

LATERAL PIPE SIZING	
	3/4" PIPE
	1" PIPE
	1 1/4" PIPE
	1 1/2" PIPE
	2" PIPE
	2 1/2" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

SCH 40 PVC SLEEVING CHART

1 1/4" SLEEVE	1-8 WIRES	1/2" PIPE
1 1/2" SLEEVE	9-16 WIRES	3/4" PIPE
2" SLEEVE	17-26 WIRES	1" PIPE
2 1/2" SLEEVE	27-38 WIRES	1 1/4" PIPE
3" SLEEVE	39-54 WIRES	1 1/2" PIPE
4" SLEEVE	55-100 WIRES	2" PIPE
6" SLEEVE	100+ WIRES	3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

CONTROLLER — STATION #
FLOW (GPM) — VALVE SIZE

N W E S

20' 10' 0' 20' 40' 60'

SCALE: 1" : 20'
GRAPHIC SCALE

DIGALERT
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Know what's below.
Call 811 before you dig.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEMPEL
NO. C34608
REN.12/27
STATE OF CALIFORNIA

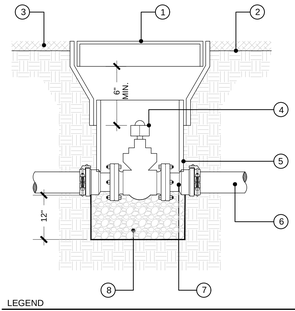
LANDSCAPE IRRIGATION DESIGNER
DIGGS
SIGNATURE
12/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

LANDSCAPE IRRIGATION PLAN

LI.2

REV. # DATE

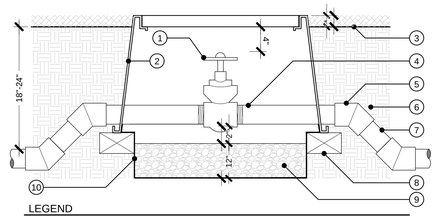


LEGEND

1. 12" ROUND PLASTIC VALVE BOX. SET 1" IN TURF AREAS, 2" IN SHRUB AREAS, AND SET FLUSH IN DG AREAS
2. FINISHED GRADE.
3. MULCH PER PLANTING PLAN.
4. FLANGED GATE VALVE WITH SQ. NUT
5. PVC EXTENSION (SIZE AS REQUIRED).
6. MAINLINE PER IRRIGATION PLAN
7. LEEMCO #RF-xFxB SELF RESTRAINED FLANGE X BELL ADAPTER OR EQUAL - SIZE PER VALVE AND MAINLINE PIPING (2 REQUIRED) TO BE USED ON A 3" MAINLINE OR LARGER. LEEMCO LMJ-250 (2 REQUIRED) TO BE USED ON 2-1/2" MAINLINE.
8. PEA GRAVEL

L 2 1/2" AND LARGER GATE VALVE

NOT TO SCALE



LEGEND

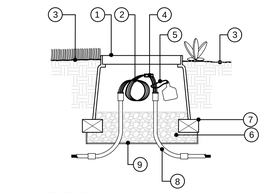
1. GATE VALVE PER IRRIGATION LEGEND (MAINLINE SIZE)
2. PLASTIC VALVE BOX WITH LOCKING LID (RAINBIRD VB-STD-H) HEAT BRAND "GV" ON LID IN 2" HIGH BLOCK LETTERS
3. FINISH GRADE
4. SCH 80 NIPPLE LENGTH AS NEEDED
5. SCH 80 PVC 45 DEGREE ELL (4 REQUIRED)
6. NATIVE SOIL
7. MAINLINE PIPING PER IRRIGATION LEGEND
8. COMMON BRICK SUPPORTS (4 REQUIRED)
9. FILL BASE OF BOX WITH PEA GRAVEL
10. FILTER FABRIC - ENSURE ALL VALVE BOX HOLES ARE COVERED
* 1/2" IN TURF AREAS, 1" IN SHRUB AREAS

NOTE

A. INSTALL 12" AWAY FROM HARDSCAPE EDGE.
B. WRAP ALL PIPING IN CONCRETE W/ 10 MIL TAPE
C. USE TEFLON TAPE ON ALL THREADS.

M 2" AND SMALLER GATE VALVE

NOT TO SCALE



NOTE:

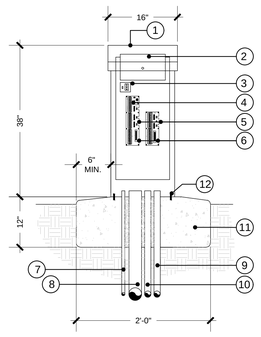
ELECTRICAL SWEEPS NOT REQUIRED FOR DIRECT BURIAL INSTALLATION. OPEN ENDS OF ELECTRICAL SWEEPS SHALL BE SEALED USING APPROVED NON-HARDENING CONDUIT SEALANT PUTTY.
WHERE PULL BOX OCCURS WITHIN PAVING, USE BROOKS CONCRETE PULL BOX MODEL #1PB W/CONCRETE COVER #A. MOUNT TOP OF PULL BOX FLUSH W/FINISH SURFACE OF PAVING.

LEGEND

1. CARSON 2200 12" ROUND VALVE BOX. HEAT BRAND "PB" ONTO LID, IN 2" HIGH LETTERS
2. 36" WIRE EXPANSION LOOP TYP.
3. FINISH GRADE , PER PLAN
4. WIRE CONNECTORS
5. CONTROL WIRE LABEL, SEE SPECS
6. 3/4" ROCK, 3 CUBIC FEET
7. BRICK SUPPORT
8. PVC ELECTRICAL SWEEP IF INSTALLED IN CONDUIT
9. BIOBARRIER ROOT CONTROL FABRIC

H PULL BOX

NOT TO SCALE



LEGEND

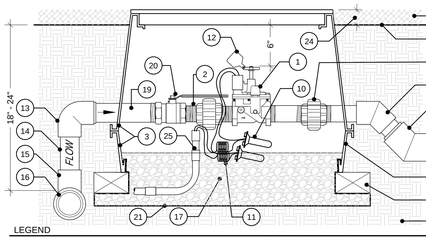
1. 16" TOP ENTRY NEMA 3R RAINPROOF ENCLOSURE (UL LISTED)
2. CONTROLLER PER LEGEND
3. POWER SWITCH/GFI RECEPTACLE.
4. MASTER VALVE RELAY ASSEMBLY OR PUMP START RELAY ASSEMBLY (OPTIONAL)
5. TERMINAL BOARD.
6. REMOTE RECEIVER CONNECTOR (OPTIONAL).
7. 1" PVC CONDUIT FOR 120 VAC FROM METERED POWER SUPPLY.
8. PVC CONDUIT FOR CONTROL WIRES, SIZE AS REQUIRED.
9. 1" PVC CONDUIT FOR CAT 6 ETHERNET CABLE. REFER TO ELECTRICAL PLANS.
10. 1" PVC CONDUIT FOR FLOW SENSOR CABLE PAIGE CABLE (IF APPL.) PAIGE P-7162 -D.
11. 3500 PSI CONCRETE BASE.
12. 3/8" Ø HILTI KB-T2 W/ 2" EMBED, INSTALL PER ICC ESR 1917. USE IN CONCLUSION W/ LOCK WASHER. (4 TOTAL). ALIGN WITH PRE-DRILLED HOLES IN ENCLOSURE.

NOTE:

-ALL GROUNDING REQUIREMENTS FOR CONTROLLER ASSEMBLIES SHALL CONFORM TO LOCAL ELECTRICAL CODES. GROUNDING ROD REQUIRED OUTSIDE OF CONTROLLER PEDESTAL REQUIRED AT MINIMUM.
-UNIT NOT TO EXCEED 100LBS. OR CONTRACTOR SHALL REQUEST REVISED ANCHORING SYSTEM.

I CONTROLLER

NOT TO SCALE



NOTES:

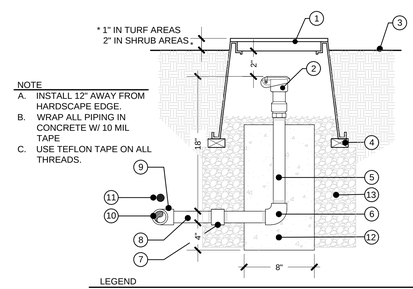
A. ALL THREADED FITTINGS SHALL RECEIVE 2 WRAPS OF TEFLON TAPE.
B. PLACE BOX ABOVE FINISH GRADE, 1/2" FOR TURF AREAS AND 1" FOR SHRUB/ GROUNDCOVER AREAS.
C. PER CONTRACTOR: EACH VALVE SHALL BE INDIVIDUAL CONNECTION TO MAINLINE -OR- LINE SIZE CAPACITY OF SUM GPM OF ALL VALVES ON MANIFOLD OR MAINLINE SIZE WHICHEVER IS LESS.
D. LAY BALL VALVE ON ITS SIDE FOR EASE OF OPERATION.
E. 1-1/2" AND LARGER VALVES SHALL USE SUPER JUMBO BOX (RAINBIRD VB-SPR-H + VB-SPR-B)

LEGEND

1. REMOTE CONTROL VALVE PER IRRIGATION LEGEND
2. SCH 80 PVC NIPPLE (3 REQUIRED) VALVE SIZE
3. RECTANGULAR PLASTIC VALVE BOX (RAINBIRD VB-SPR-H) HEAT BRAND STATION NUMBER ON LID IN 2" BLOCK LETTERS
4. FINISH GRADE
5. SCH 80 UNION (TxT)(2 REQUIRED)
6. SCH 40 PVC 45 DEGREE ELL
7. SCH 40 PVC 45 DEGREE ELL (BUSH UP TO LINE SIZE)
8. RECTANGULAR PLASTIC VALVE BOX (RAINBIRD VB-SPR-B)
9. COMMON BRICK SUPPORTS (4 REQUIRED)
10. WATER PROOF WIRE CONNECTORS (DBY /2 REQUIRED)
11. I,F WIRES TO CONTROLLER (COLOR CODED) SEE SPECS.
12. I.D. TAG WITH STATION NUMBER PRINTED ON IT (CHRISTY'S #ID-STD-Y1)
13. SCH 80 PVC 90 DEGREE (SIZE PER MAINLINE).
14. RISER. (SIZE ACCOMODATE 2 VALVES CONTINOUS).
15. SCH 80 PVC TEE (OUTLET TO BE CAPABLE OF 2 VALVES @ 1 TIME MIN OR MAIN SIZE PER PLAN WHICHEVER IS GREATER)
16. MAINLINE PIPING REFER TO PLAN
17. FILL BASE OF BOX WITH 3/4" GRAVEL
18. COMPACTED NATIVE SOIL
19. SCH 80 NIPPLE CUT TO LENGTH (2 REQUIRED)
20. BALL VALVE - NIBCO T-585-70-66, FOR 1" ONLY (SIZE PER RCV), NIBCO T-580-70-66 FOR SIZES LARGER THAN 1".
21. FILTER FABRIC - ENSURE ALL VALVE BOX HOLES ARE COVERED
22. LATERAL LINE (SIZE PER PAN)
23. MULCH REFER TO PLANTING PLAN
24. 1/2" IN TURF AREAS, 1" IN SHRUB AREAS, AND 1/2" DECOMPOSED GRANITE AREAS
25. SCH. 40 CONDUIT, WHERE APPLICABLE (SIZE PER CHART) CAP W/ COUPLING.

J REMOTE CONTROL VALVE

NOT TO SCALE



NOTE

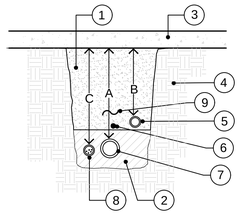
A. INSTALL 12" AWAY FROM HARDSCAPE EDGE.
B. WRAP ALL PIPING IN CONCRETE W/ 10 MIL TAPE
C. USE TEFLON TAPE ON ALL THREADS.

LEGEND

1. 10" ROUND LOCKABLE BOX (RAINBIRD VB-10-RND) HEAT BRAND "QC" TO TOP.
2. QUICK COUPLER UNIT PER LEGEND
3. FINISH GRADE
4. (3) BRICK SUPPORTS
5. BRASS NIPPLE
6. BRASS 90° ELL
7. BRASS COUPLING
8. P.V.C. SCH. 80 NIPPLE
9. P.V.C. TEE OR ELL
10. PRESSURE MAINLINE
11. TRACER WIRE
12. 8" X 12" DEEP CONCRETE FOOTING
13. 3/4" GRAVEL. 12" DEEP MIN.

K QUICK COUPLER

NOT TO SCALE



NOTES

A. SLEEVE SHALL BE 2 TIMES THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED.
B. BUNDLE WIRING & WRAP W/ ELECTRICAL TAPE @ 5'-0" INTERVALS.
C. ALL MAINLINE PIPING SHALL BE SLEEVED BELOW ALL HARDSCAPE ELEMENTS W/ SCH. 40 PVC UNLESS OTHERWISE SPECIFIED ON PLANS THE PIPE OR WIRE BUNDLE.
D. CONTRACTOR SHALL MARK EDGE OF PAVING ABOVE ENDS OF SLEEVE W/ A SCORE MARK TO DESIGNATED SLEEVE LOCATION.
E. SLEEVE ENDS SHALL EXTEND 24" BEYOND EDGE OF HARDSCAPE.
F. INSTALL MAINLINE MARKING TAPE AT A DEPTH OF 12" OF FINISH GRADE (RED OR YELLOW).
G. AFTER INSTALLATION OF PIPE & IRE, CONTRACTOR SHALL FILL REMAINING VOID IN ENDS OF SLEEVES W/ CONDUIT PUTTY.

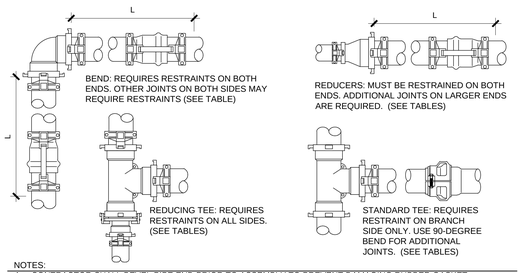
LEGEND

1. CLEAN BACKFILL PER SPECIFICATIONS.
2. SOIL BACKFILL. (SEE SPECS). INSTALL 6" BEDDING AND 6" COVER OF SAND BACKFILL UNDER INSTALLATION OF PIPE, UNDER EXISTING AND NEW PAVING AREAS.
3. FINISH SURFACE (CONC./ AC. PAVING.)
4. UNDISTURBED SOIL.
5. PLACE 12" DEEP NON-PRESSURE LATERAL IN SLEEVE.
6. GREEN COATED TRACER WIRE
7. PRESSURE PVC MAINLINE IN SLEEVE
8. CONTROLLER WIRING IN P.V.C. SLEEVE.
9. 6" WIDE DETECTABLE WARNING TAPE

DIMENSION	A	B	C
1/2" TO 4" IN SIZE WHERE BELOW VEHICULAR PAVING	36"	36"	36"
1/2" TO 4" IN SIZE WHERE BELOW PEDESTRIAN PAVING	24"	12"	24"

E SLEEVING

NOT TO SCALE



BEND: REQUIRES RESTRAINTS ON BOTH ENDS. OTHER JOINTS ON BOTH SIDES MAY REQUIRE RESTRAINTS (SEE TABLE)

REDUCERS: MUST BE RESTRAINED ON BOTH ENDS. ADDITIONAL JOINTS ON LARGER ENDS ARE REQUIRED. (SEE TABLES)

REDUCING TEE: REQUIRES RESTRAINTS ON ALL SIDES. (SEE TABLES)

STANDARD TEE: REQUIRES RESTRAINT ON BRANCH SIDE ONLY. USE 90-DEGREE BEND FOR ADDITIONAL JOINTS. (SEE TABLES)

NOTES:

A. CONTRACTOR SHALL BEVEL PIPE END PRIOR TO ASSEMBLY TO PREVENT DAMAGING RUBBER GASKET.
B. CONTRACTOR SHALL APPLY SUITABLE PUSH-ON JOINT LUBRICANT I.E. SEAL LUBE BY IPS WELDON OR EQUAL.
C. CONTRACTOR SHALL USE WD-40 OR EQUAL LUBRICANT TO PREVENT THE POSSIBILITY OF GALLING OR SEIZING OF STEEL THREADS.
D. REFER TO MANU. HARDWARE SIZE AND TORQUE CHART AND PIPE-PIPE RESTRAINT CHART FOR REQUIREMENTS.
E. USE LEEMCO LB OR LPP SERIES RESTRAINTS FOR BELL AND GASKET PIPE-TO-PIPE CONNECTIONS.
F. USE LEEMCO LH SERIES RESTRAINTS FOR PVC PIPE TO DUCTILE IRON PUSH-ON FITTINGS, INCLUDING ELLS, TEES, AND VALVE TO MAINLINE CONNECTIONS (SERVICE TEES).
G. ANY FLANGED CONNECTION TO BELL AND GASKET PIPE SHALL BE MADE USING LEEMCO SR-FB SERIES SELF RESTRAINING FLANGE ADAPTERS.
H. REFER TO MANUFACTURERS RECOMMENDATIONS. MANU. RECOMMENDATIONS SUPERCEDE DETAILS.

DISTANCE CHART

REFER TO THE FOLLOWING TABLE THAT LISTS THE LENGTH (IN FEET) FOR EACH SIZE/TYPE FITTING WITHIN WHICH ALL JOINTS JUST BE RESTRAINED. ALL FITTINGS AND JOINT RESTRAINTS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS & SPECIFICATIONS.

AS AN EXAMPLE, IF YOU ARE INSTALLING A 3" MAINLINE WITH A DIRECTIONAL CHANGE OF 90°, REFER TO CHART UNDER PIPE SIZE TO 3" AND UNDER BENDS 90 YOU WILL SEE THE DISTANCE OF 11'. IF THERE IS ANY JOINT (VALVE, BELL, ETC.) YOU MUST INSTALL A JOINT RESTRAINT WITHIN 11' OF THE 90° MAINLINE DIRECTIONAL CHANGE.

PIPE	BENDS				REDUCERS			DEAD END	
SIZE	11°	22°	45°	90°	1 STEP	2 STEP	3 STEP	BLIND	SERV. B.
2"	1'	1'	2'	6'	-	-	-	19'	6'
2.5"	1'	2'	4'	9'	4'	-	-	23'	10'
3"	2'	3'	6'	11'	8'	10'	-	30'	15'
4"	2'	4'	9'	20'	14'	20'	31'	45'	25'
6"	3'	6'	13'	29'	30'	40'	53'	63'	40'
8"	4'	8'	15	38'	33'	55'	63'	75'	70'
10"	5'	9'	19'	45'	36'	56'	75'	96'	90'
12"	5'	10'	21'	53'	38'	60'	83'	112'	110'

QUICK SELECTION GUIDE- PIPE-PIPE

TABLE SHOWS THE NUMBER OF ADJACENT JOINTS TO RESTRAIN...BASED ON 20' LENGTH

PIPE	BENDS		REDUCERS			DEAD END	
SIZE	45°	90°	1 STEP	2 STEP	3 STEP	BLIND	SERV. B.
2"							
2.5"						1	
3"						1	
4"		1		1	1	2	1
6"		1	1	2	2	3	1
8"		1	1	2	3	3	2
10"	1	2	1	2	3	4	2
12"	1	2	2	3	4	5	2

INSTALLATION CHART

REFER TO THE FOLLOWING TABLE WHICH LISTS THE NUMBER OF BOLTS, SIZE, AND TORQUE FOR EACH BOLT IN REFERENCE TO THE SIZE OF PIPE WHICH IS BEING RESTRAINED.

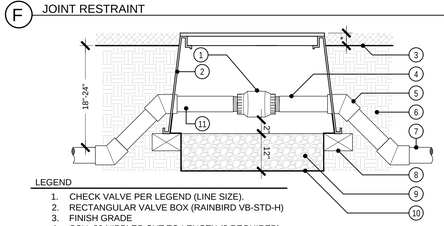
AS AN EXAMPLE, IF YOU HAVE A 3" PIPE, YOU WILL NEED 2 BOLTS THAT ARE 3/8 X 2.5" AND TIGHTEN THEM WITH A TORQUE WRENCH TO 20 FT-LBS.

PIPE SIZE	NO. BOLTS	BOLT SIZE	TORQUE FT-LBS.
2"	2	3/8" x 2.5"	20
2.5"	2	3/8" x 2.5"	20
3"	2	3/8" x 2.5"	20
4"	2	1/2" x 3"	50
6"	2	1/2" x 3.5"	50
8"	4	1/2" x 4"	50
10"	4	5/8" x 5.5"	100
12"	4	5/8" x 5.5"	100

CONTACT STEVEN KIM @ 951.461.0942, THE LEEMCO REPRESENTATIVE, FOR ALL QUESTIONS CONCERNING LEEMCO PRODUCTS. COORDINATE AN INSTALLATION CLINIC WITH STEVEN KIM PRIOR TO INSTALLING THE MAINLINE.

F JOINT RESTRAINT

NOT TO SCALE

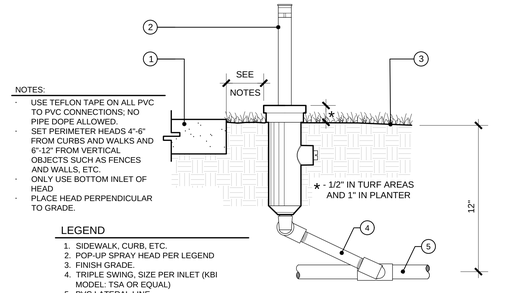


LEGEND

1. CHECK VALVE PER LEGEND (LINE SIZE).
2. RECTANGULAR VALVE BOX (RAINBIRD VB-STD-H)
3. FINISH GRADE
4. SCH. 80 NIPPLES-CUT TO LENGTH (2 REQUIRED)
5. SCH 80 PVC 45 DEGREE ELL (4 REQUIRED)
* 1/2" IN TURF AREAS, 1" IN SHRUB AREAS
6. NATIVE SOIL
7. MAINLINE PIPING PER IRRIGATION LEGEND
8. COMMON BRICK SUPPORTS (4 REQUIRED)
9. FILL BASE OF BOX WITH 12" 3/4" ROCK
10. FILTER FABRIC - ENSURE ALL VALVE BOX HOLES ARE COVERED

G CHECK VALVE

NOT TO SCALE



NOTES:

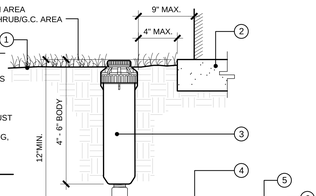
- USE TEFLON TAPE ON ALL PVC TO PVC CONNECTIONS; NO PIPE DOPE ALLOWED.
- SET PERIMETER HEADS 4"-6" FROM CURBS AND WALKS AND 6"-12" FROM VERTICAL OBJECTS SUCH AS FENCES AND WALLS, ETC.
- ONLY USE BOTTOM INLET OF HEAD
- PLACE HEAD PERPENDICULAR TO GRADE.

LEGEND

1. SIDEWALK, CURB, ETC.
2. POP-UP SPRAY HEAD PER LEGEND
3. FINISH GRADE.
4. TRIPLE SWING, SIZE PER INLET (KBI MODEL: TSA OR EQUAL)
5. PVC LATERAL LINE

A POP-UP SPRINKLER HEAD

NOT TO SCALE



NOTES:

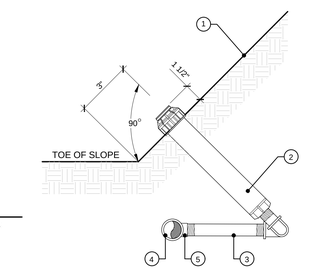
- USE TEFLON TAPE ON ALL PVC TO PVC CONNECTIONS; NO PIPE DOPE ALLOWED.
- SET PERIMETER HEADS 4"-6" FROM CURBS AND WALKS AND 6"-12" FROM VERTICAL OBJECTS SUCH AS FENCES AND WALLS, ETC.
- INSTALL SPRINKLER HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

LEGEND:

1. FINISHED GRADE.
2. SIDEWALK, CURB, ETC.
3. GEAR-DRIVEN ROTOR HEAD REFER TO LEGEND FOR MANU & MODEL.
4. TRIPLE SWING JOINT ASSEMBLY. (RAINBIRD TSJ OR EQUAL)
5. REDUCING TEE SxSxT
6. PVC NON-PRESSURE LATERAL LINE.

B ROTOR

NOT TO SCALE



NOTES:

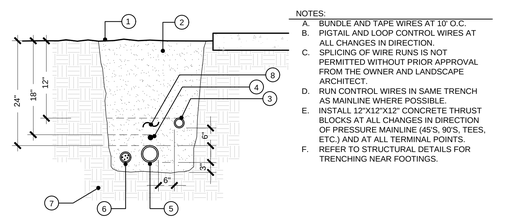
- USE TEFLON TAPE ON ALL PVC TO PVC CONNECTIONS; NO PIPE DOPE ALLOWED.
- SET PERIMETER HEADS 4"-6" FROM CURBS AND WALKS AND 6"-12" FROM VERTICAL OBJECTS SUCH AS FENCES AND WALLS, ETC.
- ONLY USE BOTTOM INLET OF HEAD.

LEGEND

1. FINISHED GRADE IN SHRUB AREAS
2. ROTOR PER LEGEND
3. TRIPLE SWING, SIZE PER INLET (RAINBIRD TSJ OR EQUAL)
4. PVC LATERAL LINE
5. PVC TEE

C ROTOR ON SLOPE

NOT TO SCALE



NOTES:

A. BUNDLE AND TAPE WIRES AT 10' O.C.
B. PIGTAIL AND LOOP CONTROL WIRES AT ALL CHANGES IN DIRECTION.
C. SPLICING OF WIRE RUNS IS NOT PERMITTED WITHOUT PRIOR APPROVAL FROM THE OWNER AND LANDSCAPE ARCHITECT.
D. RUN CONTROL WIRES IN SAME TRENCH AS MAINLINE WHERE POSSIBLE.
E. INSTALL 12"X12"X12" CONCRETE THRUST BLOCKS AT ALL CHANGES IN DIRECTION OF PRESSURE MAINLINE (45'S, 90'S, TEES, ETC.) AND AT ALL TERMINAL POINTS.
F. REFER TO STRUCTURAL DETAILS FOR TRENCHING NEAR FOOTINGS.

LEGEND

1. FINISH GRADE
2. CLEAN BACKFILL-90% COMPACTION-SEE SPECS.
3. NON-PRESSURE LATERAL LINE (SNAKE IN TRENCH)
4. GREEN COATED TRACER WIRE
5. PRESSURE MAINLINE (SNAKE IN TRENCH)
6. CONTROL WIRES- IN CONDUIT/ TAPE TO MAINLINE AS NOTED PER SPECS. INSTALL BELOW MAINLINE.
7. UNDISTURBED NATIVE SOIL
8. 6" WIDE DETECTABLE WARNING TAPE

D TRENCHING

NOT TO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEMP, CA
NO. C34608
REN.12/27
STATE OF CALIFORNIA

LICENSED LANDSCAPE ARCHITECT
DIGGS S. 3710
SIGNATURE
12/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

LANDSCAPE IRRIGATION DETAILS

LID.1

REV. # DATE

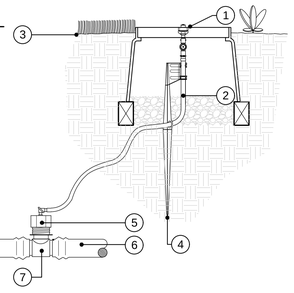
M INDICATOR STAKE

NOT TO SCALE

LEGEND

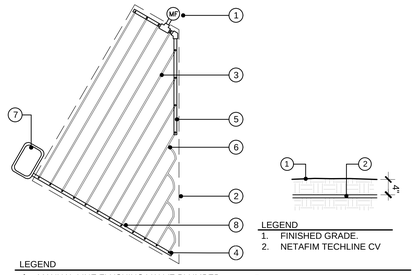
1. MICRONET FOGGER NOZZLE-2 GPH.
2. SUPER FLEX UV WHITE TUBING.
3. FINISH GRADE.
4. STAKE.
5. AGRIFIM MODEL #SEL250 1/2" FIPT X 1/4" BARBED SWIVEL ELBOW.
6. TECHLINE CB 17MM TUBING.
7. DIGCORP MODEL # 15-043 17MM 1/2" MALE ADAPTER TEE X BARB.
8. 7" EMITTER VALVE BOX. SEB-7XB. DRILL 3/8" HOLE IN TOP FOR EMITTER.

NOTE:
LOCATE INDICATOR STAKE AT THE FARTHEST AND/OR HIGHEST POINT OF THE ZONE.



I DRIP IRREGULAR LAYOUT

NOT TO SCALE



LEGEND

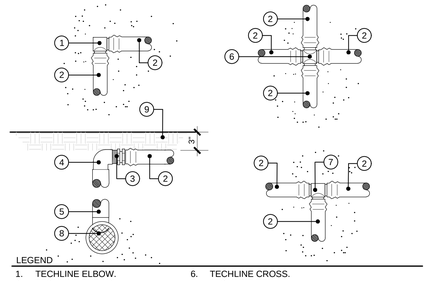
1. MANUAL LINE FLUSHING VALVE PLUMBED TO PVC OR POLY.
2. AREA PERIMETER.
3. TECHLINE CV TUBING.
4. TECHLINE START CONNECTION.
5. EXHAUST FOOTER
6. TECHLINE TEE.
7. REMOTE CONTROL VALVE WITH DISC FILTER AND PRV.
8. SUPPLY HEADER.

LEGEND

1. FINISHED GRADE.
2. NETAFIM TECHLINE CV

E DRIP START CONNECTION

NOT TO SCALE

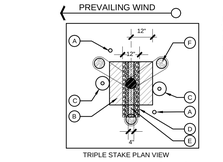


LEGEND

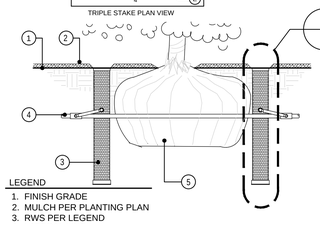
1. TECHLINE ELBOW.
2. TECHLINE TUBING.
3. TECHLINE 3/4" MALE ADAPTER.
4. PVC ELL
5. 3/4" PVC PIPING.
6. TECHLINE CROSS.
7. TECHLINE TEE.
8. PVC HEADER/ FOOTER. SIZE PER PLAN.
9. FINISHED GRADE.

A ROOT WATERING SYSTEM BUBBLER

NOT TO SCALE



TRIPLE STAKE PLAN VIEW



LEGEND

1. FINISH GRADE
2. MULCH PER PLANTING PLAN
3. RWS PER LEGEND
4. LATERAL LINE
5. ROOTBALL

NOTES:

A. POSITION 2-3 UNITS (OR MORE) EVENLY SPACED AROUND PLANT. FOR NEW TREES PLACE NEAR ROOT BALL. FOR EXISTING TREES PLACE HALF THE DISTANCE BETWEEN CANOPY EDGE AND TREE TRUNK.
B. PLACE A MIN OF 12" AWAY FROM ROOTBALL.
C. INSTALL PRODUCT WITH TOP EVEN WITH GROUND SURFACE.
D. WHEN INSTALLING IN HARD OR CLAY SOILS, ADD 3/4" GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
E. ONCE RWS HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.

PLAN VIEW LEGEND

A. BUBBLER PER IRRIGATION LEGEND- PLACE ON HIGHEST ELEVATION.
B. TREE ROOTBALL.
C. 18" AERATION MODEL # RAINBIRD RWS-M (W/ NO BUBBLER)
D. 4" PERFORATED PIPE/ SIPHON TUBE. 12" WIDE TRENCH 14" DEEP AT THE BOTTOM OF THE TREE PLANTING PIT.
E. THE TRENCH WILL BE DIRECTED TO THE LOW END OF THE TREE PIT TO ALLOW PROPER DRAINAGE.
F. PINE LODGE POLE STAKE OR APPROVED EQUAL W/ RUBBER CINCH TIE PER TREE PLANTING DETAILS.

IDENTIFICATION STAMP
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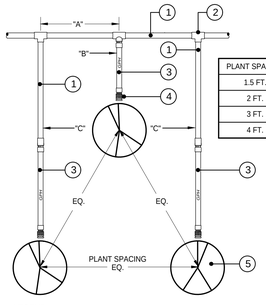
N AIR RELIEF VALVE

NOT TO SCALE

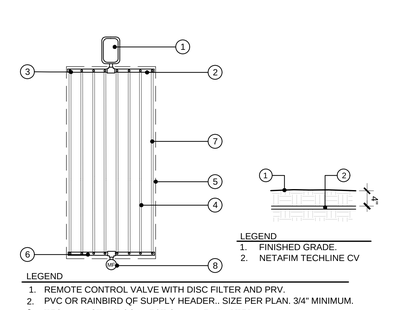


LEGEND

1. AIR RELEASE VALVE PER IRRIGATION LEGEND
2. BALL VALVE: NIBCO T-585-70-66
3. SCH 80 PVC NIPPLE, LENGTH AS NEEDED
4. SCH 80 PVC TEE WITH 2" THREADED OUTLET
5. FINISH GRADE
6. RECTANGULAR PLASTIC VALVE BOX WITH LOCKING LID (RAINBIRD VB-STD-H) HEAT BRAND "ARV" ON LID IN 2" HIGH BLOCK LETTERS
7. RECTANGULAR PLASTIC VALVE BOX EXTENSIONS (RAINBIRD VB-STD-B)
8. MAINLINE PIPING PER IRRIGATION LEGEND
9. COMMON BRICK SUPPORTS (4 REQUIRED)
10. FILL BASE OF BOX WITH PEA GRAVEL
11. NATIVE SOIL
12. FILTER FABRIC - COVER ALL BOX HOLES
* 1/2" IN TURF AREAS, 1" IN SHRUB AREAS

J DRIP IRREGULAR PARKING LAYOUT

NOT TO SCALE



LEGEND

1. START CONNECTION ON EXHAUST HEADER
2. PARKING ISLAND PERIMETER
3. PVC SUPPLY HEADER
4. TECHLINE CV DRIPLINE
5. START CONNECTION ON SUPPLY HEADER
6. VALVE AND FILTER
7. TECHLINE SUB-HEADER
8. MANUAL FLUSH VALVE @ LOWEST POINT OF SYSTEM.

LEGEND

1. FINISHED GRADE.
2. NETAFIM TECHLINE CV

F DRIP START CONNECTION - SECTION

NOT TO SCALE

* REFER TO PLANS FOR TUBING SPACING

LEGEND

1. 2"-3" MULCH LAYER PER PLAN WHERE OCCURS
2. FINISHED GRADE.
3. REMOVE SOIL IN ENTIRE LANDSCAPE AREA, STOCKPILE & REPLACE POST TUBING INSTALL. REMOVE 2"-3" IN DG & 4"-6" IN MULCH AREAS.
4. NETAFIM TECHLINE CV DRIP TUBING
5. RIPPED/TILLED & AMENDED SUB-GRADE PER AGRONOMIC SOILS REPORT TO A DEPTH OF 10"-12"
6. 3"-4" DECOMPOSED GRANITE PER PLAN WHERE OCCURS

B ROOT WATERING SYSTEM BUBBLER - INSTALL

NOT TO SCALE

LEGEND

1. 4" LOCKING GRATE (INCLUDED).
2. BUBBLER: RAIN BIRD 1402 0.50 GPM (INCLUDED).
3. ROOT WATERING SYSTEM PER LEGEND
4. FINISHED GRADE.
5. CHECK VALVE (INCLUDED).
6. 1/2" POLY SWING PIPE ASSEMBLE (INCLUDED)
7. PVC TEE
8. PVC LATERAL LINE (SIZE PER PLAN)
9. 4" X 36" LONG RIGID BASKET WEAVE CANISTER (INCLUDED).
10. GRATE BOTTOM
11. MULCH PER PLANTING PLANS

NOTES:

- 4" GRATE IS ALSO AVAILABLE IN PURPLE (RWS-GRATE-P).TBU IN RECYCLED APPLICATIONS
- SAND SOCK (RWS-SOCK) IS 34" IN LENGTH. CUT TO LENGTH NEEDED TO COVER MESH BASKET AREA.
- WHEN INSTALLING IN CLAY SOILS, ADD ¾" GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
- ONCE RWS HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.

O POINT-SOURCE EMITTER - SINGLE - FLEX RISER

NOT TO SCALE

PLANT SPACING	LENGTH "A"	RISER "B"	RISER "C"
1.5 FT.	9 IN.	SLV-PVC-M-ACL-24	SLV-PVC-M-ACL-24
2 FT.	12 IN.	SLV-PVC-M-ACL-24	SLV-PVC-M-ACL-24
3 FT.	18 IN.	SLV-PVC-M-ACL-24	SLV-PVC-M-ACL-24
4 FT.	24 IN.	SLV-PVC-M-ACL-24	SLV-PVC-M-ACL-24

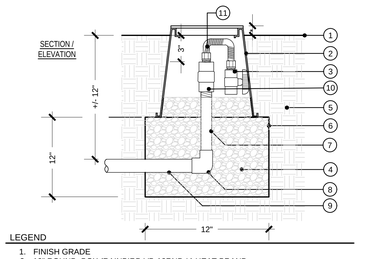
NOTES:
A. EMITTER SPACING SHALL BE BASED ON PLANT SPACING, INSTALL ALL IRRIGATION USING THE COMPONENTS DESCRIBED ABOVE. IRRIGATION EQUIPMENT SHALL BE COMPLETELY INSTALLED PRIOR TO PLANT LAYOUTS. ADJUST PLANT SPACING TO ACCOMMODATE FINAL IRRIGATION LAYOUT.

LEGEND

1. PVC SCH. 40 PIPE.
2. PVC SCH. 80 1/2" REDUCING TEE.
3. SALCO IH SERIES FLEX RISERS, MODEL NUMBER SLV-PVC-M-ACL-XX.
4. RAIN BIRD PRESSURE COMPENSATING EMITTER PER LEGEND.
5. PLANT, TRIANGULAR SPACING.

L FLUSH VALVE

NOT TO SCALE



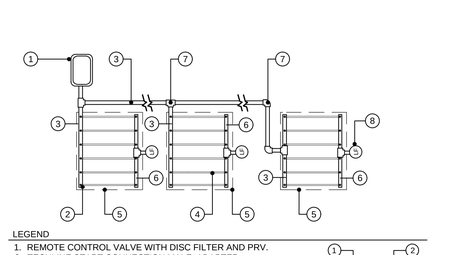
LEGEND

1. FINISH GRADE
2. 10" ROUND BOX (RAINBIRD VB-10RND-L) HEAT BRAND "FV" ON LID IN 2" HIGH BLOCK LETTERS
3. 3/4" SCH. 80 PVC BALL VALVE PER LEGEND
4. 3/4" GRAVEL 12" DEEP MIN
5. COMPACTED NATIVE SOIL.
6. FILTER FABRIC
7. 3/4" SCH 80 PVC NIPPLE (LENGTH AS REQUIRED)
8. SCH 40 90 SXS
9. 3/4" PVC LINE TO EXHAUST HEADER PIPING.
10. 3/4" TXT COUPLING
11. 3/4" FLEXIBLE PIPE WITH MALE ENDS. 24" LENGTH MIN.
* 2" IN SHRUB/ MULCH AREAS

NOTE:
-ALL THREADED FITTINGS SHALL RECEIVE TEFLON TAPE
-3/4" MINIMUM BALL VALVE AND TUBING FOR ADEQUATE FLUSHING. .

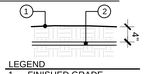
H DRIP ISLAND LAYOUT

NOT TO SCALE



LEGEND

1. REMOTE CONTROL VALVE WITH DISC FILTER AND PRV.
2. TECHLINE START CONNECTION MALE ADAPTER.
3. PVC OR RAINBIRD QF SUPPLY HEADER. SIZE PER PLAN. 3/4" MINIMUM.
4. TECHLINE CV TUBING.
5. ISLAND PERIMETER.
3. PVC OR RAINBIRD QF EXHAUST HEADER. SIZE PER PLAN. 3/4" MINIMUM.
4. PVC TEE OR PVC ELL.
5. MANUAL LINE FLUSHING VALVE PLUMBED TO EXHAUST HEADER.

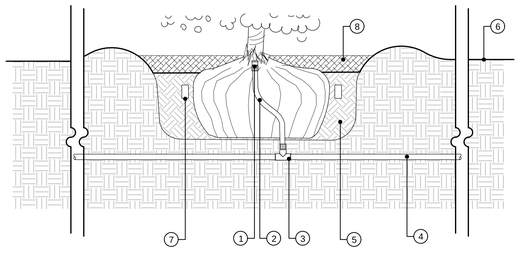


LEGEND

1. FINISHED GRADE.
2. NETAFIM TECHLINE CV

K DRIP END FEED

NOT TO SCALE



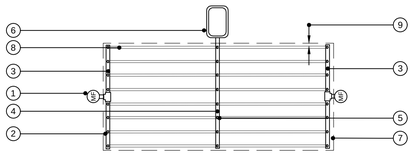
LEGEND

1. PRESSURE COMPENSATING DRIP EMITTER (RAIN BIRD PER LEGEND) INSTALLED IN 1/2" PVC MALE- THREADED ADAPTER. SOLVENT WELD FLEX PIPE TO PVC FITTING PER MANUFACTURERS RECOMMENDATIONS. LOCATE AT EDGE OF PLANTING PIT / WATERING BASIN. INSTALL AFTER FLUSHING SYSTEM OF DEBRIS.
2. 1/2" UV-RESISTANT PVC FLEXIBLE PIPE - SALCO IH SERIES FLEX RISER. 5' MAXIMUM LENGTH.
3. SCHEDULE 80 PVC REDUCING TEE. SOLVENT WELD FLEX PIPE TO PVC FITTING PER MANUFACTURERS RECOMMENDATIONS.
4. PVC LATERAL LINE FROM REMOTE CONTROL VALVE. DEPTH / COVER PER IRRIGATION SPECIFICATIONS.
5. SHRUB PLANTING PIT.
6. FINISHED GRADE.
7. PLANT TABLET PER SPECIFICATIONS.
8. MULCH PER PLANTING PLAN.

NOTES:
A. ONE EMITTER PER SHRUB.

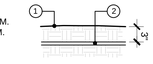
G DRIP CENTER FEED

NOT TO SCALE



LEGEND

1. MANUAL LINE FLUSHING VALVE PLUMBED TO EXHAUST HEADER
2. TECHLINE START CONNECTION MALE ADAPTER.
3. PVC OR RAINBIRD QF EXHAUST HEADER. SIZE PER PLAN. 3/4" MINIMUM.
4. PVC OR RAINBIRD QF SUPPLY HEADER.. SIZE PER PLAN. 3/4" MINIMUM.
5. TECHLINE START CONNECTION SEE DETAIL.
6. REMOTE CONTROL VALVE WITH DISC FILTER AND PRV.
7. AREA PERIMETER.
8. TECHLINE CV TUBING.
9. PERIMETER LATERALS 2" TO 4" FROM EDGE.

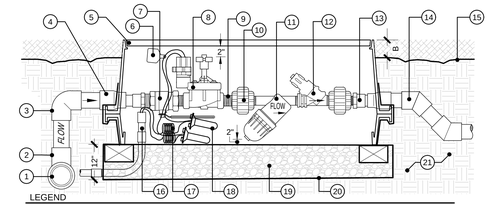


LEGEND

1. FINISHED GRADE.
2. NETAFIM TECHLINE CV

C NOT USED

NOT TO SCALE



LEGEND

1. PRESSURE MAINLINE PER PLANS.
2. SCH. 80 PVC REDUCING TEE (REFER TO MANIFOLD NOTE).
3. SCH 80 PVC 90° SXS
4. SCH 40 REDUCING COUPLING. SEE NOTE C
5. JUMBO VALVE BOX (RAINBIRD VB-JMB-H W/ VB-JMB-B). HEAT BRAND 2" HIGH BLOCK LETTERS.
6. VALVE ID TAG
7. BALL VALVE (SIZE PER RCV) - NIBCO T-585-70-60 FOR 1" ONLY, T-580-70-66 FOR SIZES LARGER THAN 1". LAY BALL VALVE ON ITS SIDE.
8. RC VALVE PER LEGEND
9. SCH. 80 NIPPLE(S) (LENGTH AS NEEDED)
10. SCH. 80 UNION(S) (SIZE PER VALVE)
11. DISC. FILTER. PLACE DOWN OR ON SIDE.
12. PRESSURE REGULATOR PER LEGEND
13. SCH. 80 MALE ADAPTER
14. SCH. 40 45° (TO LATERAL DEPTH)
15. FINISH GRADE
16. SCH. 40 CONDUIT, WHERE APPL. (SIZE PER CHART). CAP W/ COUPLING
17. TYPE UF DB WIRE- COIL 30" MIN.
18. WATERPROOF WIRE CONNECTOR(S)
19. 12" DEEP 3/4" GRAVEL SUMP.
20. LANDSCAPE FABRIC PER SPECS, FULLY INCASE SUMP AND BOX SIDES.
21. COMPACTED NATIVE SOIL

NOTES:
A. ALL THREADED FITTINGS SHALL RECEIVE 2 WRAPS OF TEFLON TAPE.
B. 1" FOR TURF AREAS AND 2" FOR SHRUB/ GROUNDCOVER AREAS.
C. PER CONTRACTOR: EACH VALVE SHALL BE INDIVIDUAL CONNECTION TO MAINLINE -OR- LINE SIZE CAPACITY OF SUM GPM OF ALL VALVES ON MANIFOLD OR MAINLINE SIZE WHICHEVER IS LESS.
D. 2" AND LARGER VALVES SHALL USE SUPER JUMBO BOX (RAINBIRD VB-SPR-H + VB-SPR-B)

D VALVE, PRESSURE REG., & FILTER

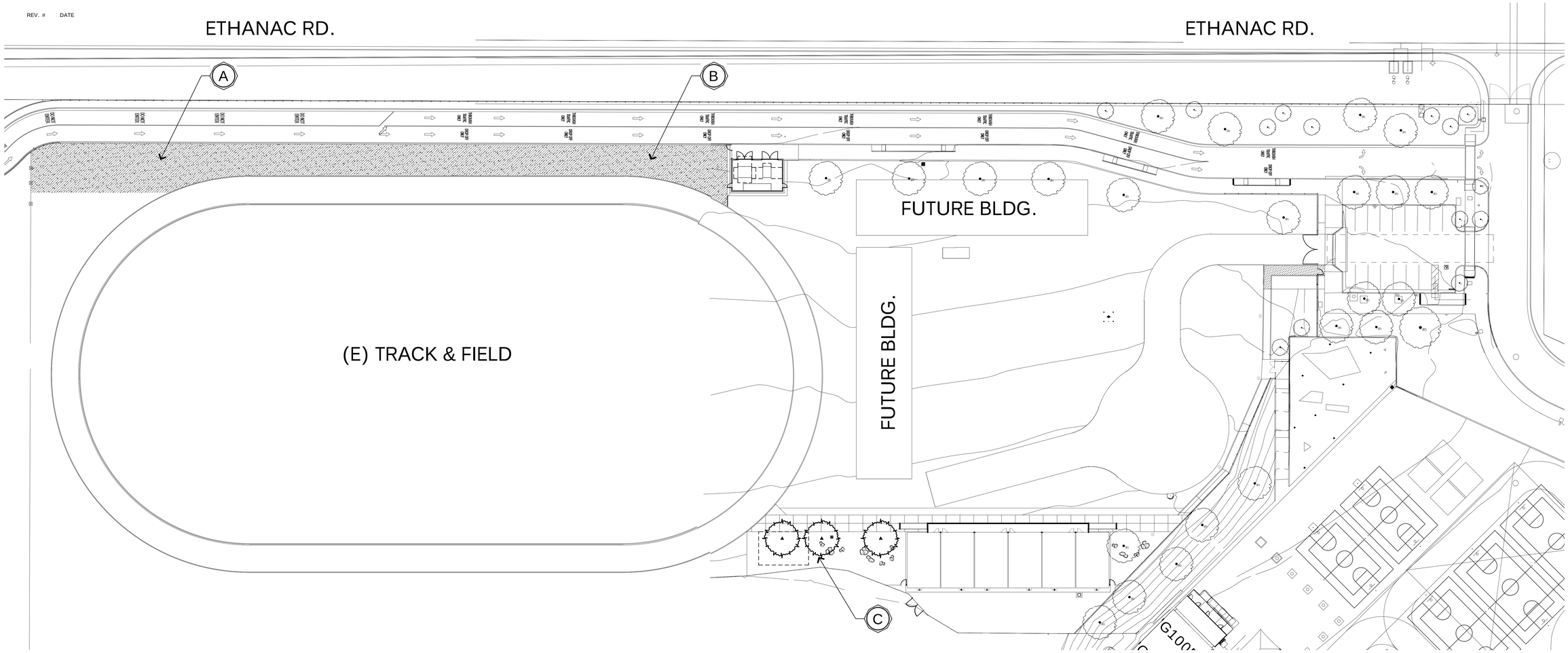
NOT TO SCALE

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

LANDSCAPE IRRIGATION DETAILS

LID.2

REV. # DATE



SOIL SAMPLE AREA LEGEND

A AREA #1 - TURF AREA AT NORTHWEST OF THE EXISTING TRACK & FIELD.

B AREA #2 - TURF AREA AT NORTHEAST OF THE EXISTING TRACK & FIELD.

C AREA #3 - LANDSCAPE AREA AT SOUTH OF FUTURE BUILDING.

EXISTING TREE NOTES

CONTRACTOR SHALL NOT INSTALL ANY PLANT MATERIAL WITHIN 12" OF ANY ROOT SYSTEMS AND SHALL NOT CUT OR DAMAGE ANY ROOT LARGER THAN 2" WITHOUT REVIEW AND WRITTEN APPROVAL BY A CERTIFIED ARBORIST. ANY ILL AFFECTS ON THE HEALTH OF THE EXISTING TREES IS OBSERVED AND WAS A DIRECT RESULT OF THE DISTURBANCE DURING CONSTRUCTION, CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO SAVE THE TREE, IF THE TREE CANNOT BE SAVED, CONTRACTOR SHALL PROVIDE CREDIT FOR TREE AS ESTABLISHED BY CERTIFIED ARBORIST OF OWNERS CHOOSING AND AT CONTRACTORS EXPENSE.

PLANTING LEGEND:

1. QUANTITIES PROVIDED ARE FOR THE BENEFIT OF THE CONTRACTOR ONLY. QUANTITIES REFLECT THE TOTAL COUNT FOR THE ENTIRE PROJECT. CONTRACTOR TO VERIFY QUANTITIES ON PLAN. QUANTITIES ON PLAN TAKE PRECEDENCE OVER QUANTITIES IN LEGEND.
2. TREES PLANTED WITHIN 7' OF HARDSCAPE SHALL BE INSTALLED WITH ROOT BARRIERS (12' MIN. LENGTH - CENTERED ON TREE TRUNK).
3. CONTRACTOR TO MAINTAIN A 10' CLEARANCE BETWEEN UNDERGROUND COMPONENTS (GAS, WATER, UTILITIES, ELECTRICAL, ETC) LINES AND TREES.

WEED ABATEMENT GUIDELINES

THE FOLLOWING IS PROPOSED GUIDELINE SCHEDULE FOR WEED ABATEMENT. PRIOR TO THE COMMENCEMENT OF THE WEED ABATEMENT, SIGNS SHALL BE POSTED AROUND THE LANDSCAPE PLANTERS INDICATING SUCH WORK TO BE TAKING PLACE.

WEEK 1:	HEAVILY WATER ALL LANDSCAPE PLANTERS 10 MINUTES, 2X PER DAY.
WEEK 2:	STOP WATERING AND ALLOW ANY WEEDS TO PROPAGATE
WEEK 3:	APPLY ALL LANDSCAPE PLANTERS WITH DIMENSION 270G (BY SIMPLOT)
WEEK 4:	REMOVE DEAD WEEDS BY RAKE/HOE TO A DEPTH OF 1-2" BELOW THE SURFACE OF THE SOIL.

AGRONOMIC SOILS REPORT

AGRONOMIC SOILS TESTS SHALL BE TAKEN AFTER ROUGH GRADING IS COMPLETE.COPY SHALL BE GIVEN TO LANDSCAPE ARCHITECT AND CITY FOR REVIEW AND APPROVAL.

- CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING A MINIMUM OF 3 SOIL SAMPLES.
- AMENDMENTS/ TILLING SHALL BE BASED UPON AGRONOMIC SOILS REPORT.
- 2ND AGRONOMIC SOILS REPORT SHALL BE TAKEN TO ENSURE THE PROPER AMENDMENTS WERE ADDED TO LANDSCAPE AREAS.

NEW TREE RECOMMENDED WATERING GUIDE

- CONTRACTOR TO USE THIS AS A GUIDE AND MAKE ANY NECESSARY ADJUSTMENTS AS NEEDED.
- WHEN TREE IS WATERED, THE SOIL SHOULD BE THOROUGHLY SATURATED TO A DEPTH OF AT LEAST 2 TO 3 FEET AND AT LEAST AS WIDE AS THE TREE WELL. IMMEDIATELY AFTER PLANTING, NEW TREE SHOULD BE WATERED DAILY FOR THE FIRST 2 TO 3 DAYS, THEN USE THE APPROPRIATE SCHEDULE, DEPENDING ON TIME OF YEAR / TEMPERATURE. VERY SLOW AND DEEP WATERING IS ALWAYS RECOMMENDED. DURING PERIODS WHERE DAYTIME TEMPERATURE IS 100°, CONTRACTOR SHALL WATER AT LEAST 1 ADDITIONAL TIME PER WEEK FOR ALL VARIETIES.
- THESE WATERING SCHEDULES ARE BASED ON AVERAGE CONDITIONS IN THE AREA. THEY SHOULD BE FOLLOWED FOR AT LEAST THE FIRST 2 YEARS AFTER PLANTING.
- FERTILIZING: ONE MONTH AFTER PLANTING BEGIN REGULAR FERTILIZING.
- DURING ESTABLISHMENT PERIOD WATER PALMS EACH DAY FOR THE FIRST 10-14 DAYS. SWITCH TO 3-4 DAYS EACH WEEK AFTERWARDS, REFER TO WATERING CHART FOR INDIVIDUAL SEASONS. APPROXIMATELY 5 GALLONS OF WATER SHOULD BE APPLIED FOR A 25-GALLON PALM

RECOMMENDED WATERING CHART

NEWER TREES FROM 0-2 YEARS FROM PLANTING / DAILY HIGH TEMPERATURE RANGE; CONTRACTOR TO USE THIS AS A GUIDE AND MAKE ANY NECESSARY ADJUSTMENTS AS NEEDED.

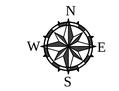
TREE VARIETIES (REFER TO PLANTING LEGEND W/CDLS CHART ON PLANTING PLAN)	SPRING 85° TO 100° F	SUMMER ABOVE 100° F	FALL 85° TO 100° F	WINTER BELOW 85° F
LOW WATER USE VARIETIES	WATER 1 TIME PER WEEK	WATER 2-3 TIMES PER WEEK (WATER EXTRA IF 100° OR MORE FOR EXTENDED TIME)	WATER 1 TIME PER WEEK	WATER 1 TIME EVERY 10 DAYS
MEDIUM WATER USE VARIETIES	WATER 2 TIMES PER WEEK	WATER 3-4 TIMES PER WEEK	WATER 2 TIMES PER WEEK	WATER 1 TIME EVERY PER WEEK
HIGHER WATER USE / TROPICAL VARIETIES	WATER 2 TIMES PER WEEK	WATER 4-5 TIMES PER WEEK (WATER EXTRA IF 100° OR MORE FOR EXTENDED TIME)	WATER 2 TIMES PER WEEK	WATER 1 TIME PER WEEK

WATER TO EXISTING PLANT MATERIAL TO REMAIN

EXISTING IRRIGATION SHALL NOT BE SHUT OFF TO EXISTING PLANT MATERIAL TO REMAIN FOR A PERIOD 48 HOURS OR MORE. IN THE EVENT WATER MUST REMAIN OFF, CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING MATERIAL BY ANY MEANS NECESSARY AT THEIR EXPENSE.

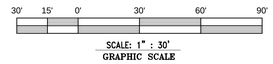
PLANTING NOTES

1. ALL DIMENSIONS & CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR ON THE JOB SITE. QUANTITIES PROVIDED ARE FOR THE BENEFIT OF THE CONTRACTOR ONLY. PLANTING LEGEND QUANTITIES REFLECT THE TOTAL COUNT FOR THE ENTIRE PROJECT. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTIFIES AS SHOWN ON PLANS. QUANTITIES ON PLAN VIEW TAKE PRECEDENCE OVER QUANTITIES IN LEGEND.
2. ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE LANDSCAPE ARCHITECTS ATTENTION PRIOR TO WORK.
3. CONTRACTOR SHALL NOTIFY THE DISTRICT'S REPRESENTATIVE OF SITE CONDITIONS WHICH PREVENT INSTALLATION PER PLANS AND SPECS.
4. CONTRACTOR SHALL BE LIABLE FOR REMOVING AND RE-INSTALLING IRRIGATION EQUIPMENT, AND REPLANTING AREAS WHICH ARE NOT INSTALLED PER PLAN AND SPECIFICATIONS.
5. IRRIGATION SYSTEM SHALL BE INSTALLED PRIOR TO PLANT MATERIAL. WITH THE EXEMPTION OF LARGER BOX TREES WHICH MAY BE INSTALLED PRIOR TO COMPLETED IRRIGATION SYSTEM. CONTRACTOR SHALL HAND WATER MATERIAL IF IRRIGATION SYSTEM WILL NOT BE FUNCTIONAL WITHIN 48 HOUR PERIOD AT NO COST TO OWNER.
6. TREES AND SHRUBS SHALL BE PLANTED AFTER CONCRETE PLACEMENT, BUT NOT BEFORE IRRIGATION COVERAGE TEST HAS BEEN APPROVED. EXCEPTIONS WILL BE MADE FOR LARGE BOX TREES TO PREVENT CONCRETE DAMAGE. (SEE SPECIFICATIONS) .
7. PLACE TREES BETWEEN IRRIGATION HEADS WHEREVER POSSIBLE.
8. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS AND/OR REPLACEMENT OF ANY DAMAGED LANDSCAPE AREAS BEYOND THE LIMIT OF WORK, THAT IS A DIRECT RESULT OF THE LANDSCAPE CONTRACTOR AND/OR HIS SUB-CONTRACTOR. REPLACEMENT ITEMS SHALL BE EXACT DUPLICATE OF ORIGINAL WORK ON PLANS, UNLESS OTHERWISE APPROVED BY THE DISTRICT'S AUTHORIZED REPRESENTATIVE.
9. CONTRACTOR IS RESPONSIBLE FOR AMENDING THE SOIL BASED UPON AGRONOMIC SOILS REPORT BEFORE AMENDING AND REPORT TAKEN AFTER AMENDING FOR FIRST TIME.
10. THE CONTRACTOR SHALL TAKE SOIL SAMPLES FROM A DEPTH OF (12") TWELVE INCHES MINIMUM FROM (3) THREE LOCATIONS AS DETERMINED BY THE LANDSCAPE ARCHITECT AND (2) TWO FOLLOW-UP LOCATIONS AFTER AMENDMENTS HAVE BEEN INCORPORATED PER ORIGINAL REPORT.ALL AGRONOMIC SOIL TEST SHOULD INCLUDE ALL SOIL LABORATORY AMENDMENT RECOMMENDATIONS IN SUBMITTAL FOR REVIEW AND APPROVAL.
11. CLEANUP SHALL TAKE PLACE ON A DAILY BASIS UNLESS OTHERWISE APPROVED BY THE DISTRICTS REPRESENTATIVE.
12. ALL TREES PLANTED WITHIN SEVEN FEET OF CONCRETE AND/OR ASPHALT PAVING SHALL HAVE A ROOT BARRIER INSTALLED WITH THE TREE. INSTALL PER MFG. SPECIFICATIONS. UB 24-2 ROOT BARRIER BY DEEPROOT OR EQUAL.
13. TREES SHALL BE STRAIGHT AND OF UNIFORM SHAPE WITHOUT DAMAGED, CROOKED OR MULTIPLE LEADERS. TREES WITH ABRASIONS OF THE BARK, SUN SCALDS, DISFIGURING KNOTS OR FRESH CUTS OF LIMBS OVER 1/2 INCH WHICH HAVE NOT BEEN PRUNED AND PAINTED OR COMPLETELY CALLOUSED, WILL NOT BE ACCEPTED. BOX SIZE STOCK SHALL HAVE GROWN IN SPECIFIED CONTAINER SIZE FOR A MINIMUM TIME TO FULLY ROOT INSIDE SAID CONTAINER.
14. CONTRACTOR SHALL NOT INSTALL ANY PLANT MATERIAL WITHIN 12" OF ANY ROOT SYSTEMS AND SHALL NOT CUT DAMAGE ANY ROOT LARGER THAN 2" WITHOUT REVIEW AND WRITTEN APPROVAL BY A CERTIFIED ARBORIST. ANY ILL AFFECTS TO THE HEALTH OF THE EXISTING TREE(S) IS OBSERVED AND WAS A DIRECT RESULT OF THE DISTURBANCE DURING CONSTRUCTION, CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO SAVE THE TREE; IF THE TREE CANNOT BE SAVED, CONTRACTOR SHALL PROVIDE CREDIT FOR THE TREE(S) AS ESTABLISHED BY A CERTIFIED ARBORIST OF OWNER'S CHOOSING AND AT THE CONTRACTOR'S EXPENSE.
15. EXISTING IRRIGATION SHALL NOT BE SHUT OFF TO EXISTING PLANT MATERIAL TO REMAIN FOR A PERIOD 48 HOURS OR MORE. IN THE EVENT WATER MUST REMAIN OFF, CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING MATERIAL BY ANY MEANS NECESSARY AT THEIR EXPENSE.
16. SHREDDED MULCH INSTALLATION: INSTALL SHREDDED MULCH IN ALL SHRUB & GROUNDCOVER AREAS AT A DEPTH OF 3" UNLESS OTHERWISE INDICATED ON PLANS. MATERIAL SHALL BE SPREAD SMOOTH AND EVENLY AND THOROUGHLY WETTED TO AID IN COMPACTION. (SEE SPECIFICATIONS) MULCH SHALL BE FROM APOLLO WOOD PRODUCTS MULCH. (909) 371-9510. MULCH TYPE: ECOSHRED - COMPOSTED WOOD MULCH UNLESS OTHERWISE INDICATED PER PLANS OR SPECS.



PLANTING LEGEND AND NOTE REFERENCE:

- REFER TO SHEET LP.A FOR PLANTING NOTES.
- REFER TO SHEET LP.2 FOR PLANTING LEGEND.



DIGALERT
AT LEAST TWO DAYS BEFORE YOU DIG
811
Know what's below.
Call 811 before you dig.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEMPEL
NO. C34608
REN.12/27
STATE OF CALIFORNIA

LANDSCAPE ARCHITECT
DIGGS ANDERSON
SIGNATURE
12/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

OVERALL SITE
LANDSCAPE
PLANTING PLAN

LP.A

REV. # DATE

ETHANAC RD.

SEE SHEET LP.2

SEE SHEET LP.2

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GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

LANDSCAPE
PLANTING PLAN

LP.1

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- REFER TO SHEET LP.2 FOR PLANTING LEGEND.

N W E S

20' 10' 0' 20' 40' 60'
SCALE: 1" : 20'
GRAPHIC SCALE

REV. # DATE

ETHANAC RD.

SEE SHEET LP.1

SEE SHEET LP.1

FUTURE BLDG.

FUTURE BLDG.

G100B'

G100A'

SOD, TYP.

CONCRETE MOWCURB

CONTRACTOR SHALL REPAIR PLANTS WITH LIKE KIND AND SIZE IN THIS AREA DUE TO NEW CONSTRUCTION.

EXISTING TREE TO REMAIN. PROTECT IN PLACE, TYP.

PLATANUS ACERIFOLIA 'BLOODGOOD', TYP.

PROPOSED BOULDER LOCATION, TYP.

CONTRACTOR SHALL REPAIR TURF IN THIS AREA DUE TO NEW CONSTRUCTION. SOD SHALL BE PLACED TO EDGE OF PLANTING AREA AND OVERSEED FIVE FEET TO BLEND NEW TURF TO EXISTING.

MULCH, TYP.

PROPOSED BOULDER LOCATION

CONTRACTOR TO RELOCATE ALL EXISTING BOULDER TO NEW LOCATION

PLANT LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS	QTY.	DETAILS	WUCOLS REGION 4
TREES								
	EXISTING TREE TO REMAIN. PROTECT IN PLACE.							
	PLATANUS ACERIFOLIA 'BLOODGOOD'	LONDON PLANE TREE	24" BOX	PER PLAN	STANDARDS - MATCHED CALIPER SIZE:	48	B-C / LPD.1	MEDIUM
GROUNDCOVER								
	SPORTSFIELD BLEND TIFWAY A-G SOD FARM	HYBRID BERMUDA 419	SOD			+/- 1,438 S.F.		
	6" X 6" CONCRETE MOWCURB	COLOR: STANDARD GRAY FINISH: LIGHT BROOM FINISH				+/- 8 L.F.	A / LPD.1	
	4" THICK, 3/8" MINUS, DECOMPOSED GRANITE W/ SOIL STABILIZER AND FILTER FABRIC		SOUTHWEST BOULDER & STONE CALIFORNIA GOLD (760) 451-3333			+/- 370 S.F.	D / LPD.1	

NOTE:
1. TREE SHALL BE FREE OF SURFACE ROOTS, TRUNK SHALL BE STRAIGHT IN NATURE AND BALANCED SKINNED IN INDUSTRY STANDARD METHOD PRIOR TO DELIVERY. SIZES SHOWN ARE MINIMUM SIZES MEASURED AS SET FORTH IN ANSI Z60.
2. TYPAR BIO BARRIER TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATION OVER THE ALL UTILITY LINES WHERE TREES ARE BEING INSTALLED.
3. INSTALL LINEAR ROOT BARRIER MODEL UB-24 BY DEEP ROOT WHERE TREES ARE WITHIN 7' OF HARDSCAPE EDGE. DO NOT INSTALL AROUND THE ROOTBALL OF TREE, ROOT BARRIER SHOULD INSTALLED ADJACENT TO HARDSCAPE.REFER TO DETAIL C / LPD.1
4. ALL PLANT MATERIALS SHOULD BE FULL AND BUSH IN CONTAINER WITH NO ROOT BOUND.

PLANTING LEGEND AND NOTE REFERENCE:
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- REFER TO SHEET LP.2 FOR PLANTING LEGEND.

N W E S

20' 10' 0' 20' 40' 60'

SCALE: 1" : 20'
GRAPHIC SCALE

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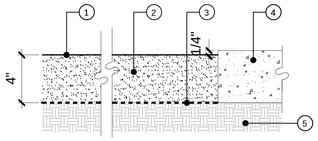
GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

LANDSCAPE
PLANTING PLAN

LP.2

REV. # DATE



NOTE:
A. EXCAVATE AND REMOVE DEPTH OF 3" OF SOIL AND PLACE WITH 3" THICK DECOMPOSED GRANITE WITH FILTER FABRIC.

LEGEND
1. FINISH GRADE- SET 1/2" MAX BELOW HARDSCAPE.
2. DG OR ROCK PER LEGEND
3. MIRAFI N OR APPROVED EQUAL WEED FABRIC.
4. CONCRETE PAVING BY OTHERS (WHERE OCCURS).
5. COMPACTED SUBGRADE PER STRUCTURAL SOIL'S REPORT.

D DECOMPOSED GRANITE

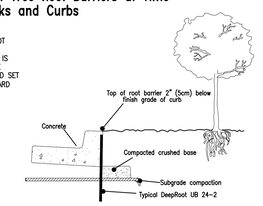
NOT TO SCALE

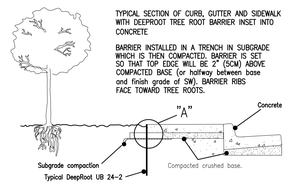
Linear Application of DeepRoot Tree Root Barriers at Time of Installing Concrete Sidewalks and Curbs

TYPICAL SECTION OF CURB AND GUTTER WITH DEEPROOT TREE ROOT BARRIER INSET INTO CONCRETE.
BARRIER INSTALLED IN A TRENCH IN SUBGRADE WHICH IS THEN COMPACTED. BARRIER IS SET SO THAT TOP EDGE WILL BE 2" (5CM) BELOW FINISH GRADE OF CURB, AND SET FLUSH WITH EDGE OF CURB. BARRIER RIBS FACE TOWARD TREE ROOTS.

INSTALLATION SEQUENCE:

1. Prepare base and subgrade
2. Trench to appropriate depth for installation of root barrier so that top of barrier is 2" (5cm) below finish grade of top of curb.
3. Place root barrier in trench, vertical ribs must face toward tree roots.
4. Backfill and compact to requirements.
5. Place form material against barrier (It may be nailed from the outside of the form)



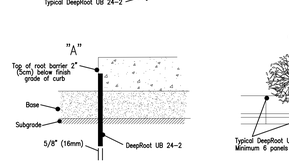


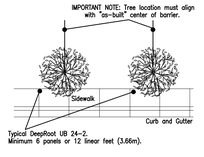
TYPICAL SECTION OF CURB, GUTTER AND SIDEWALK WITH DEEPROOT TREE ROOT BARRIER INSET INTO CONCRETE

BARRIER INSTALLED IN A TRENCH IN SUBGRADE WHICH IS THEN COMPACTED. BARRIER IS SET SO THAT TOP EDGE WILL BE 2" (5CM) ABOVE COMPACTED BASE (or halfway between base and finish grade of SW). BARRIER RIBS FACE TOWARD TREE ROOTS.

INSTALLATION SEQUENCE:

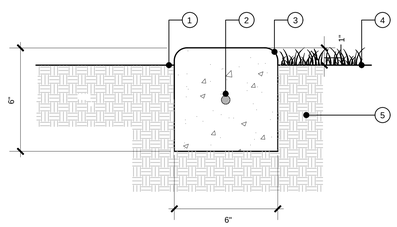
1. Prepare base and subgrade
2. Trench to appropriate depth for installation of root barrier so that top of barrier is 2" (5cm) below finish grade of top of sidewalk (or halfway between top of compacted base and finish grade of SW)
3. Place root barrier in trench, vertical ribs must face toward tree roots.
4. Backfill and compact to requirements.
5. Place form material against barrier (It may be nailed from the outside of the form)





C UB 24-2 ROOT BARRIER (PLACE ALONG THE EDGE OF HARDSCAPE)

NOT TO SCALE



NOTE:
1. INSTALL EXPANSION JOINTS EVERY 15' 0.C.

LEGEND
1. EXISTING LANDSCAPE AREA.
2. #4 REBAR CONT.
3. 1/2" RADIUS.
4. TURF AREA FINISH GRADE.
5. COMPACTED SUBGRADE PER STRUCTURAL SOIL'S REPORT.

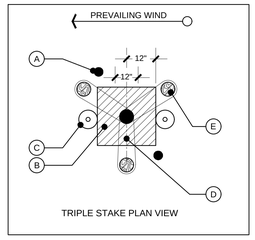
A CONCRETE MOWCURB W/ TURF

NOT TO SCALE

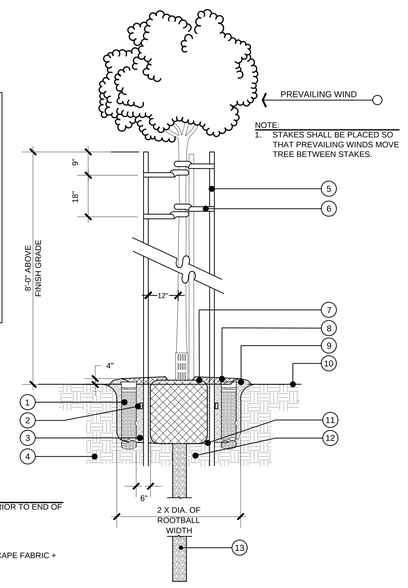
NOTE:
- INSTALL 4' DIAMETER RING OF MULCH @ BASE OF TREES IN TURF AND DECOMPOSED GRANITE AREA ONLY. INSTALL 4'-0" DIAMETER RING OF MULCH @ BASE OF TREES FOR 24" BOX AND 5'-0" DIAMETER RING OF MULCH FOR 36" BOX TREES. KEEP MULCH AWAY FROM TRUNK APPROXIMATELY 6" TYP.
- INSTALL ARBOR GUARDS @ BASE OF TREES IN TURF AREAS.
- CONTRACTOR SHALL TEST MULTIPLE HOLES PER APPROVED PERC. TEST METHOD.
- 24" BOX TREE REQUIRES 2"X10' PINE LODGE POLE STAKES, 36"-48" BOX TREE REQUIRES 3"X10' PINE LODGE POLE STAKES, AND 60" BOX TREE REQUIRES GUYING SYSTEM.
- STAKES SHALL BE PLACED SO THAT PREVAILING WINDS MOVE TREE BETWEEN STAKES.

ESTABLISHED PLANTS (21 GRAM)
- FOR EACH 12-18 INCHES OF PLANT HEIGHT OR SPREAD, OR FOR EACH 1/2 INCH OF TREE TRUNK DIAMETER USE:
- ONE TABLET FOR SLOW GROWING PLANTS
- TWO TABLETS FOR FAST-GROWING PLANTS OR POOR SOIL SITUATIONS.

21-GRAM FERTILIZER TABLET CHART - NEW PLANTINGS					
CONTAINER SIZE	15 GAL.	24" BOX	36" BOX	48" BOX	LARGER SIZED PLANTS
RECOMMENDED QUANITY OF (21 G) PLANT TABLETS	7-10	15-24	22-36	30-48	USE RATES FOR ESTABLISHED PLANTINGS



LEGEND
A. IRRIGATION SPRAY/BUBBLER PER IRRIGATION PLANS.
B. TREE ROOTBALL.
C. 18" RAINBIRD RWS-M (W/ NO BUBBLERS)
D. THE TRENCH WILL BE MOVED TO THE LOW END OF THE TREE PIT TO ALLOW FOR PROPER AMENDMENT.
E. PINE LODGE POLE STAKE OR APPROVED EQUAL W/ RUBBER CINCH TIE.



NOTE:
1. STAKES SHALL BE PLACED SO THAT PREVAILING WINDS MOVE TREE BETWEEN STAKES.

LEGEND
1. 18" RAINBIRD RWS-M (WITH NO BUBBLERS). 2 PER TREE. THIS IS FOR AERATION **ONLY**. REFER TO PLAN VIEW FOR PLACEMENT OF RWS-M.
2. PLANT TABLET. REFER TO SPECS AND TO TABLET LEGEND.
3. AMENDED BACKFILL. AMEND PER AGRONOMIC SOILS REPORT.
4. COMPACTED NATIVE.
5. PINE LODGE POLE STAKE OR APPROVED EQUAL (3 REQUIRED) REFER TO NOTES ABOVE FOR TREE STAKE SIZES.
6. RUBBER CINCH TIE (2 REQUIRED PER POLE)
7. ROOTBALL TO BE SET 1" ABOVE FINISH GRADE.
8. 3" DEPTH OF MULCH. REFER TO PLANTING LEGEND FOR TYPE.
9. 3"-4" HIGH BERM AROUND OUTSIDE OF ROOTBALL. REMOVE PRIOR TO END OF MAINTENANCE.
10. FINISH GRADE
11. PLANT PIT. SLOPE TO DRY SUMP.
12. 12" WIDE TRENCH 14" DEEP AT THE BOTTOM OF TREE PIT.
13. 48" DEEP AUGURED HOLE W/ A 4" DIAMETER WRAP W/ LANDSCAPE FABRIC + FILL W/ 3/4" MINUS GRAVEL.

B TREE

NOT TO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEMPEL
NO. C34608
REN.12/27
STATE OF CALIFORNIA

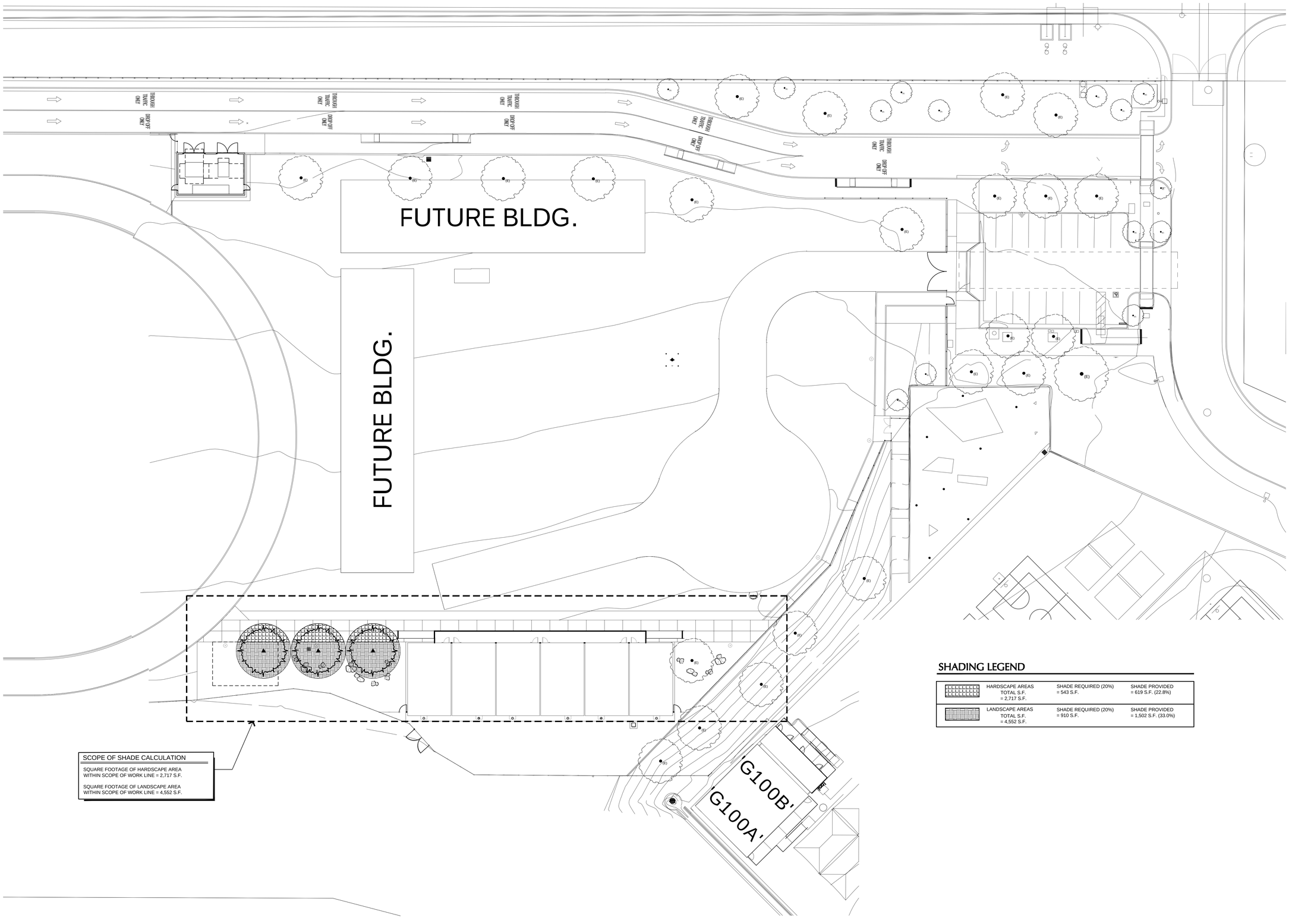
CERTIFIED LANDSCAPE ARCHITECT
DIGGS
SIGNATURE
12/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

LANDSCAPE
PLANTING DETAILS

LPD.1

REV. # DATE



SCOPE OF SHADE CALCULATION

SQUARE FOOTAGE OF HARDSCAPE AREA WITHIN SCOPE OF WORK LINE = 2,717 S.F.

SQUARE FOOTAGE OF LANDSCAPE AREA WITHIN SCOPE OF WORK LINE = 4,552 S.F.

SHADING LEGEND

	HARDSCAPE AREAS TOTAL S.F. = 2,717 S.F.	SHADE REQUIRED (20%) = 543 S.F.	SHADE PROVIDED = 619 S.F. (22.8%)
	LANDSCAPE AREAS TOTAL S.F. = 4,552 S.F.	SHADE REQUIRED (20%) = 910 S.F.	SHADE PROVIDED = 1,502 S.F. (33.0%)

N W E S

20' 10' 0' 20' 40' 60'

SCALE: 1" : 20'
GRAPHIC SCALE

DIGALERT
AT LEAST TWO DAYS BEFORE YOU DIG
Know what's below. Call 811 before you dig.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEMPEL
NO. C34608
REN.12/27
STATE OF CALIFORNIA

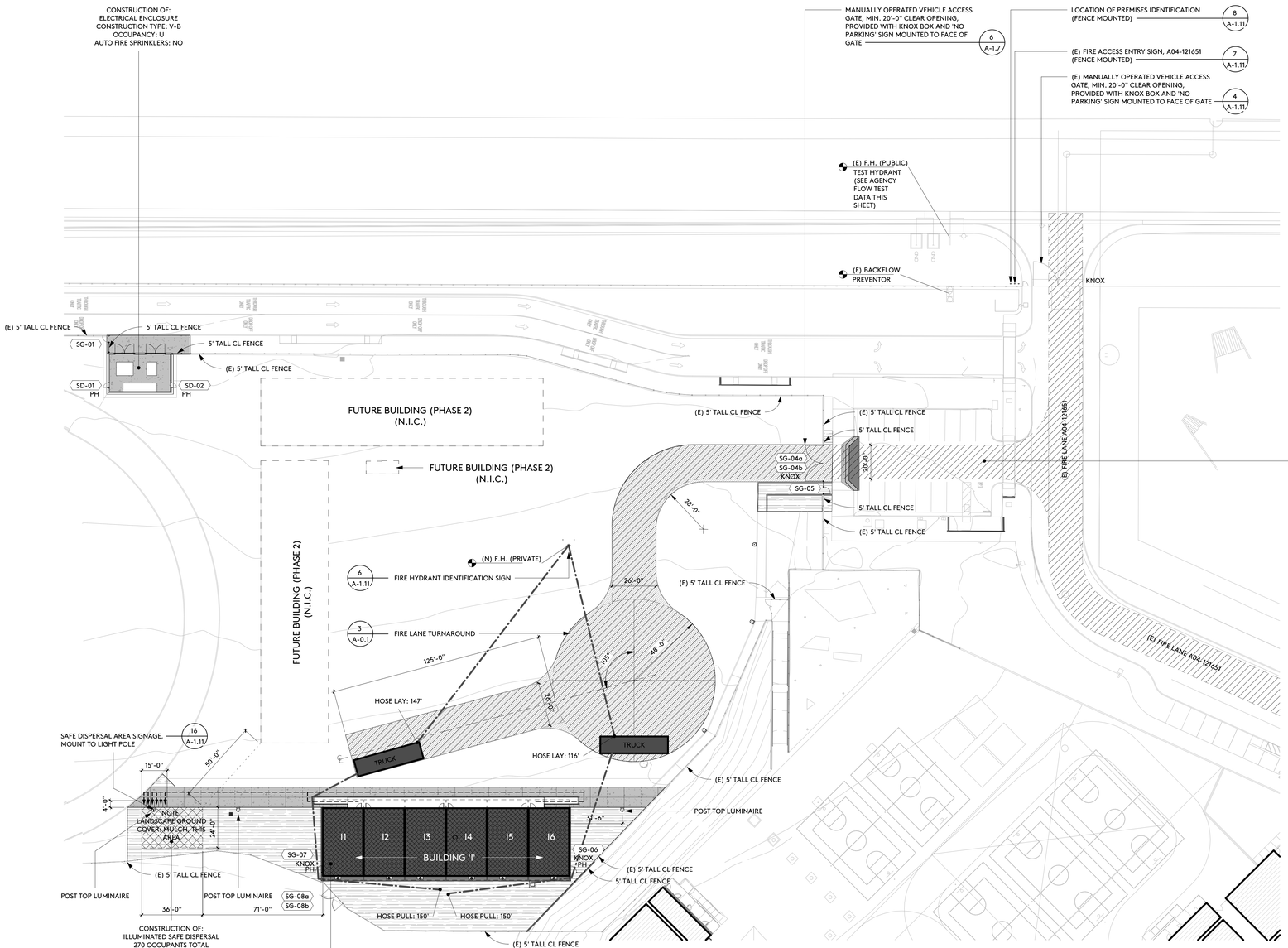
LICENSED LANDSCAPE ARCHITECT
DIGGS
SIGNATURE
12/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

LANDSCAPE
SHADE PLAN

LSP.1

REV. # DATE



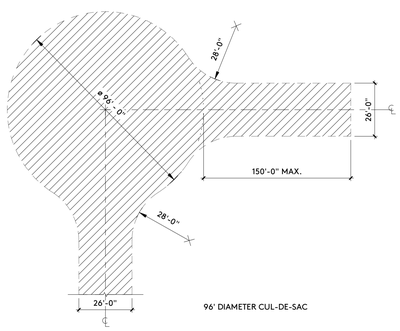
SITE PLAN - FIRE ACCESS & EXIT DISCHARGE

1" = 30'-0"

1. ALL VEGETATION AND OTHER OBSTRUCTIONS OVERHANGING A FIRE ACCESS ROADWAY SHALL BE MAINTAINED TO A CLEAR HEIGHT OF 13'-6".
2. ALL POLES, BACKBOARDS, AND OTHER OBSTRUCTIONS ON PLAYGROUNDS NEAR A FIRE ACCESS ROADWAY SHALL BE PROVIDED WITH REFLECTIVE TAPE OR PAINT.
3. KNOX KEY SWITCHES, KNOX LOCKS, OR FRANGIBLE PADLOCKS/CHAINS SHALL BE PROVIDED FOR ALL GATES AND BARRIERS IN THE PATH OF VEHICLE OR FIREFIGHTER ACCESS.
4. THE CAMPUS IS IDENTIFIED WITH 6" HIGH ADDRESS NUMBERS EASILY VISIBLE FROM THE PUBLIC ROAD FRONTING THE PROPERTY. INDIVIDUAL STRUCTURES ARE IDENTIFIED WITH 6" HIGH ADDRESS NUMBERS OR LETTERS EASILY VISIBLE FROM THE PUBLIC WAY OR FIRE ACCESS ROADWAY.
5. ALL-WEATHER ACCESS ROADWAYS AND ALL FIRE HYDRANTS SHALL BE IN PLACE AND OPERATIONAL BEFORE BRINGING COMBUSTIBLE BUILDING MATERIALS OR PORTABLE UNITS ON-SITE.
6. PIVS, DDCS, FDCS SHALL BE UNOBSTRUCTED AND VISIBLE FROM THE FIRE LANE OR PUBLIC ROAD. THEY SHALL BE PAINTED OSHA SAFETY RED.

GENERAL NOTES

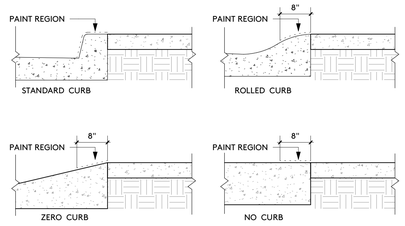
CFC FIGURE D103.1 - DEAD-END FIRE APPARATUS ACCESS ROAD TURNAROUND



96' DIAMETER CUL-DE-SAC

FIRE LANE TURN-AROUND 3

1" = 30'-0"



1. CURBS ALONG ACCESS LANES SHALL BE PAINTED OSHA SAFETY RED
2. "FIRE LANE NO PARKING" SHALL BE PAINTED ON TOP OF CURB IN WHITE LETTERING 3" HIGH AND SHALL BE SPACED 30'-0" ON CENTER OR PORTION THEREOF

CURB PROFILES 2

3/4" = 1'-0"

MINIMUM REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDING

1.	MOST DEMANDING BUILDING:	BUILDING 'I'
2.	TOTAL FIRE AREA:	6,840 SF
3.	CONSTRUCTION TYPE:	V-B
2.	AUTOMATIC SPRINKLER SYSTEM:	NO
3.	FIRE FLOW REQUIRED (CFC TABLE BB105.1):	2,250 GPM AT 20 PSI RESIDUAL PRESSURE
4.	FIRE FLOW DURATION REQUIRED:	2 HOURS
5.	MINIMUM NUMBER OF HYDRANTS:	2
6.	AVG. SPACING BETWEEN HYDRANTS:	450'
7.	AVG. SPACING FROM STREET TO HYDRANT:	225'

FLOW DATA AND HYDRANT SPACING

(N) BUILDING/STRUCTURE

(E) BUILDING

(E) FIRE APPARATUS ACCESS ROADWAY
20'-0" MIN. WIDE FIRE ACCESS LANE, U.N.O.
28'-0" MIN. INSIDE TURN RADII
48'-0" MIN. OUTSIDE TURN RADII

(N) FIRE APPARATUS ACCESS ROADWAY*
20'-0" MIN. WIDE FIRE ACCESS LANE, U.N.O.
28'-0" MIN. INSIDE TURN RADII
48'-0" MIN. OUTSIDE TURN RADII
CRUSHED BASE ROADWAY — 6 A-1.9

F.H. FIRE HYDRANT
HOSE LAY LENGTH, 225' MAX./ HOSE PULL LENGTH, 150' MAX.

FIRE LANE IDENTIFICATION - PAINTED RED CURBS PER DETAIL — 2 A-0.1

WHERE APPARATUS ACCESS ROADWAY INDICATED*
CONCRETE PAVING — 2 A-1.9

WHERE APPARATUS ACCESS ROADWAY INDICATED*
ASPHALT PAVING — 6 A-1.9

WHERE APPARATUS ACCESS ROADWAY INDICATED*
CONCRETE PAVING — 10 A-1.9

*ROADWAY SHALL BE CONSTRUCTED AND MAINTAINED TO SUPPORT MINIMUM IMPOSED LOADS OF: 75,000 LBS.

LANDSCAPE

SG-X SITE GATE, SEE SCHEDULE — 1 A-1.5

KNOX PH GATE EQUIPPED WITH SURFACE MOUNTED KNOX BOX
MODEL: 3261 OR EQUAL
COLOR: BLACK
MOUNTING HEIGHT: +72" TO TOP OF BOX
GATE/DOOR EQUIPPED WITH EXIT DEVICE, SEE SCHEDULE

(E) CHAIN LINK FENCE

(N) CHAIN LINK FENCE — 1 A-1.6

EXIT DISCHARGE ROUTE

SITE PROPERTY LINE

TRUCK FIRE ENGINE

SYMBOLS

1" = 30'-0"

emwd

COMPUTER MODEL TEST

Grid Number:	29-B	**Date:**	June 22, 2026
Customer Name:	Romoland School District	**Address:**	25500 Commerscentre Drive, #175
City, State Zip:	Lake Forest, CA 92630		
Contact Name:	Derek Stemrich		
Phone:	949-540-6642	**Cell:**	
Fax:		**Email:**	derek@pjhm.com
Project Record Number:	2026-0720	**WO/OO:**	N/A
Project Name:	Granite Hills K-8 School	**APN:**	330-160-058
(Approximate) Test & Hydrant Location:	POC1/FH: about 1960 ft west of Goetz Rd on Etharac Rd, on the north property line of the PIQ (see Figure 1). FH2: 200 Etharac Rd., Perris, CA 92570		
MODEL	**DS_PW_202406.aprx**		

POC Test Location:	**EMWD RESULTS**			**Requested**	**Flow Availability for Fire Department**
	POC1/FH				
Elevation*:	1426.5				
Steady State, Dynamic (psi):	85.9				
Residual Pressure (psi):	76.8				
Tested FF (gpm):	2250			2,250	
Combined Total (gpm):	MOD 81 gpm** plus 2250 gpm fire flow			2331	
Number of Test Locations:	One Point of Connection and One Hydrant			2	
Duration Tested @:	Two Hours			2	

Demand Conditions:	Max Day
Pressure Zone/Tank Name(s)/Level(s):	1627 PZ (Large) / Sun City Tank / Base Elevation: 1598.0 ft
Pump Operating Status:	ON **Computer Model Setting:** EPS

Number of Points of connections (POC):	**POC (Circle One)**		**Reason (Circle what Applies)**					
	One	Two or More	Design Conditions	Limited Capacity (Existing System)	Supply Redundancy	Conditions of Approval	Fire Sprinkler Connection(s)	Single-Lot Residential	Existing POC(s)

Comments: The water system is capable of providing 2250 GPM for 2 hours at a minimum of 20 psi elsewhere in the zone. These Fire Flow test results may need to be complemented by Design Conditions and do not include all facility conditioning that may be required for this project.

Fire Agency Conditions were not provided. Therefore, to complement this test report, customer shall provide formal conditions during Fire-Agency or EMWD Plan Check. In the future, if flow requirements increase or point(s) of connection differ, then a new test shall be required at the requester's expense. Otherwise, this test is still valid, with or without attached conditions.

The above results are not a guarantee the District's system will supply water to the project at any specific flows or pressures. These results were determined from a computer simulation of the District's water system and/or from hydraulic calculations pertaining to distribution pipelines. Pressures shown on these hydraulic results are at the watermain. The capacity of the service laterals, meters, backflow assemblies, on-site fire system, and other appurtenances were not considered in these results. The design and sizing of service laterals and downstream facilities shall be the responsibility of the Project Sponsor.

EMWD's Fire Flow test results are valid for six months from the date of testing.

Should you have any questions or need additional information, please contact me at (951) 686-1070. If you need additional assistance directly from EMWD, please contact Jose Ruiz at: ruiz@emwd.org

Sincerely,

Leslie DeMott
Albert A. Webb Associates
Consultants for EMWD

Reviewed By: Chander Drachalin, EIT

* Elevation based on Riverside County Flood Control digital data.
** Assumed 26.5 ac (average day demand = 2200 gpd/ac. Max Day Demand (MDD) is 2 times average day).

ILLEGIBLE WORD & HIDDEN TEXT ARE THE RESULT OF THE SCANNED Fire Test Results PDF

AGENCY FLOW TEST DATA

DSA **1-AMM-810**

REQUEST FOR ALTERNATE MATERIALS AND METHODS FOR FIRE SERVICE FEATURES

This form is used in conjunction with DSA *Policy (PL) 26-01: Requirements for Fire Service Features and Request for Alternate Materials and Methods for Fire Service Features.* Please print or type all information or you may complete online and print for signatures. Digital signatures are acceptable. All fields are required to be completed.

1. PROJECT INFORMATION		
Name of School/Facility: GRANITE HILLS MIDDLE SCHOOL		DSA File #: 33-39
Project Scope: CONSTRUCTION OF (6) RELOCATABLE BLDGS.		DSA App. #: 04-125701
School District: ROMOLAND SCHOOL DISTRICT		Increment # (if applicable):
School District Mailing Address: 200 ETHANAC ROAD		
City: PERRIS	State: CA	Zip Code: 92570
2. PROJECT CONTACT INFORMATION		
2a. School District Representative: JON PARHAM		Title: DIRECTOR, MOT & FACILITIES
Email: jparham@romoland.net		Phone: (951) 926-9244
2b. Architecture/Engineering Firm Name: PJHM ARCHITECTS		
2c. Architect/Engineer of Record: DEREK STEMRICH		
Email: derek@pjhm.com		Phone: (949) 496-6191
2d. Architecture/Engineering Firm Contact: DEREK STEMRICH		Title: AP/ARCHITECT
Email: derek@pjhm.com		Phone: (949) 496-6191
3. PURPOSE OF REVIEW REQUEST		
Purpose of Request: ☐ Propose Alternate Materials ☐ Propose Alternate Methods		
Applicable Code Year: 2025		
Applicable Code: ☐ CCR Title 19 ■ California Fire Code (CFC) ■ California Wildland-Urban Interface Code (CWUIC)		
Applicable Code Section(s): NO PROPOSED ALTERNATES OR METHODS		
4. SCHOOL DISTRICT ACKNOWLEDGEMENT		
The school district acknowledges the proposed alternate materials and methods of compliance pursuant to the requirements of DSA PL 26-01, as specified in Sections 6 through 8.		
Acknowledged By:	Title:	
Signature:		Date:
5. LOCAL FIRE AUTHORITY (LFA) ACCEPTANCE		
Agency Name:		
Reviewing Official:	Title:	
Email:		Phone:
The Local Fire Authority accepts the proposed alternate materials and methods of compliance pursuant to the requirements of DSA PL 26-01, as specified in Sections 6 through 8.		
Reviewer Signature:		Date:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT DEREK C. STEMRICH NO. C34608 REN.12/27 STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

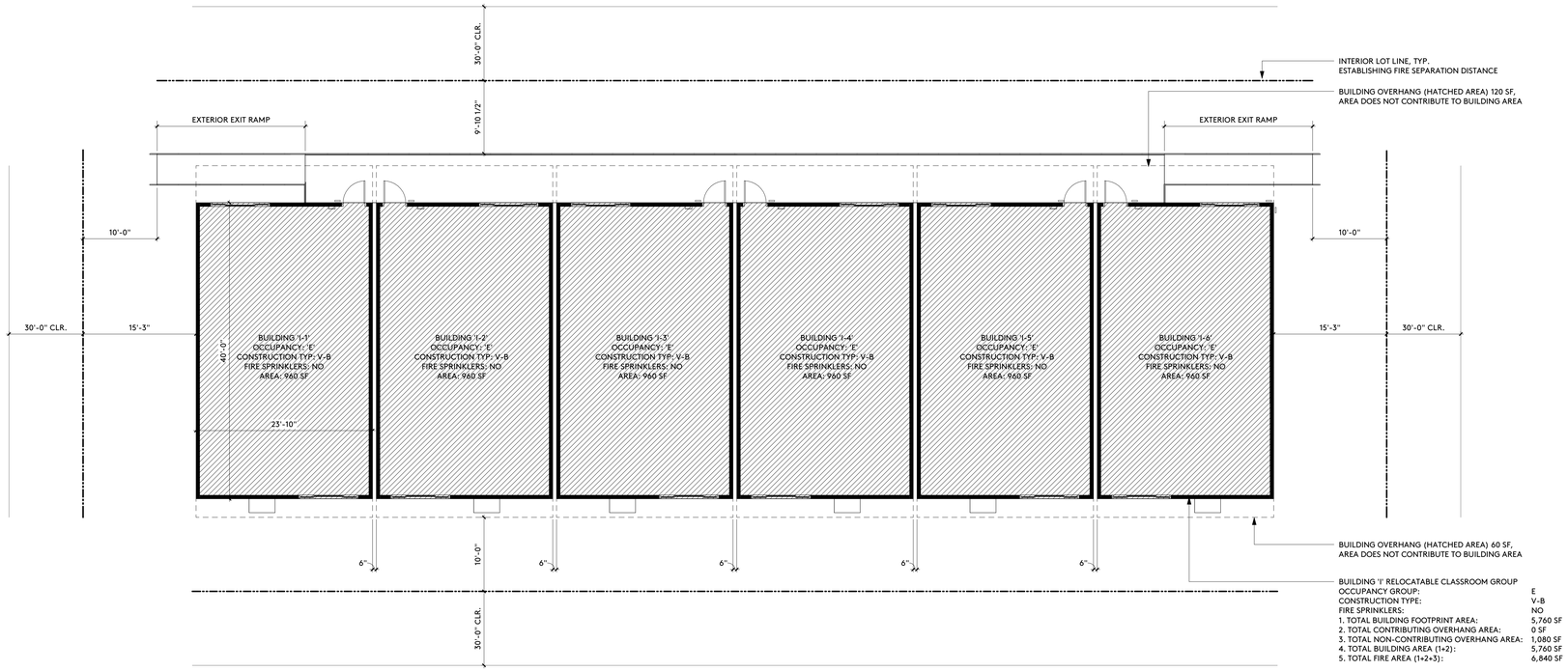
SITE PLAN - FIRE ACCESS & EXIT DISCHARGE

A-0.1

10/9/2026 9:00:45 AM

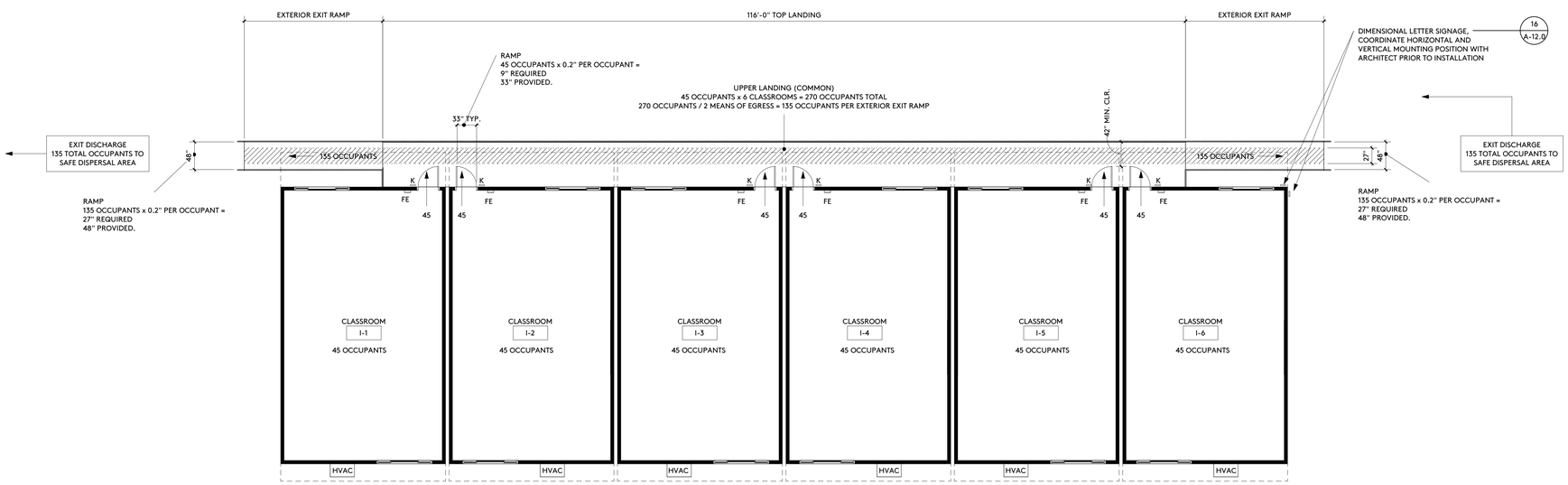
REV. # DATE

BUILDING SEPARATION ANALYSIS



1/8" = 1'-0"

EXITING ANALYSIS, FIRE EXTINGUISHER, SIGNAGE



1/8" = 1'-0"

10/9/2026 8:57:14 AM

ALLOWABLE BUILDING AREA CALCULATION

1.	OCCUPANCY GROUP(S): BUILDING:	E		
2.	CONSTRUCTION TYPE: TYPE:	V-B		
3.	BUILDING HEIGHT (CBC TABLE 504.3) ALLOWABLE: ACTUAL:	40' 15'	E;	NS
4.	STORIES ABOVE GRADE PLANE (CBC TABLE 504.4) ALLOWABLE: ACTUAL:	1 1	E;	NS
5.	BUILDING AREA (PER STORY) (CBC TABLE 506.2) ALLOWABLE:	9,500 SF	E;	NS
	MOST RESTRICTIVE: ACTUAL:	9,500 SF 5,760 SF		
6.	AUTOMATIC FIRE SPRINKLER SYSTEM:	NO		

BUILDING FIRE AREA CALCULATION

1.	TOTAL FIRE AREA:	6,840 SF
2.	AUTOMATIC SPRINKLER SYSTEM:	NO
3.	FIRE FLOW REQUIRED (CFC TABLE BB105.1):	2,250 AT 20 PSI RESIDUAL PRESSURE
4.	FIRE FLOW DURATION REQUIRED:	2 HOURS

BUILDING DATA

BUILDING 'I' OCCUPANCY SCHEDULE

ROOM	NAME	OCCUPANCY	AREA (NET)	OCCUPANT LOAD FACTOR	OCCUPANTS
I-1	CLASSROOM	E	891 SF	20	45
I-2	CLASSROOM	E	891 SF	20	45
I-3	CLASSROOM	E	891 SF	20	45
I-4	CLASSROOM	E	891 SF	20	45
I-5	CLASSROOM	E	891 SF	20	45
I-6	CLASSROOM	E	891 SF	20	45

TOTAL OCCUPANTS: 270

OCCUPANCY SCHEDULE

BUILDING OVERHANG

F.E. FIRE EXTINGUISHER, BY MODULAR MFR.
UL RATING: 4A-80BC

A SIGN TYPE
TACTILE SIGNAGE — 9 / A-12.0

ROOM NAME
101 ROOM TAG
ROOM NUMBER

SYMBOLS

1/8" = 1'-0"

APPLICATION NO.:04-125701
FILE NO.:33-44

ROMOLAND SCHOOL DISTRICT
25900 Leon Rd. Homeland, CA 92548
951.926.9244 romoland.net

Mr. Trevor J. Painton
Superintendent
Dr. Michelle Wise
Assistant Superintendent
Mrs. Karen Owen
Chief Business Official
Mr. John Murray
Chief Personnel Officer
Mr. Vince Butler
Chief Technology Officer

DATE: 09/01/2016

TO: Ron LaPlante, Principal SE
Regional Manager
Division of State Architect
10920 Via Frontera Rd., Suite 300
San Diego, CA 92570

RE: **Granite Hills Middle School – Expansion (Phase 1) Temporary Housing**
Romoland School District
DSA Project Number: 04-125701
File Number: 33-44
Project Tracking Number: 67231-48

Dear Mr. LaPlante,

The above reference project for the Romoland School District is to add (6) temporary portable classroom buildings. Please accept this letter to confirm that the temporary portables under this application number will remain on site for no more than (3) years.

If you have any questions, comments or need additional information, please do not hesitate to contact me directly at (951) 926-9244.

Thank you,

Jon Parham

Jon Parham
Director of MOT and Facilities
Romoland School District

Board of Trustees
Manuel Aguirre • Christopher Clark • O'rell Colbert • Cynthia Navarro • David Sperry

TEMPORARY USE BUILDINGS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

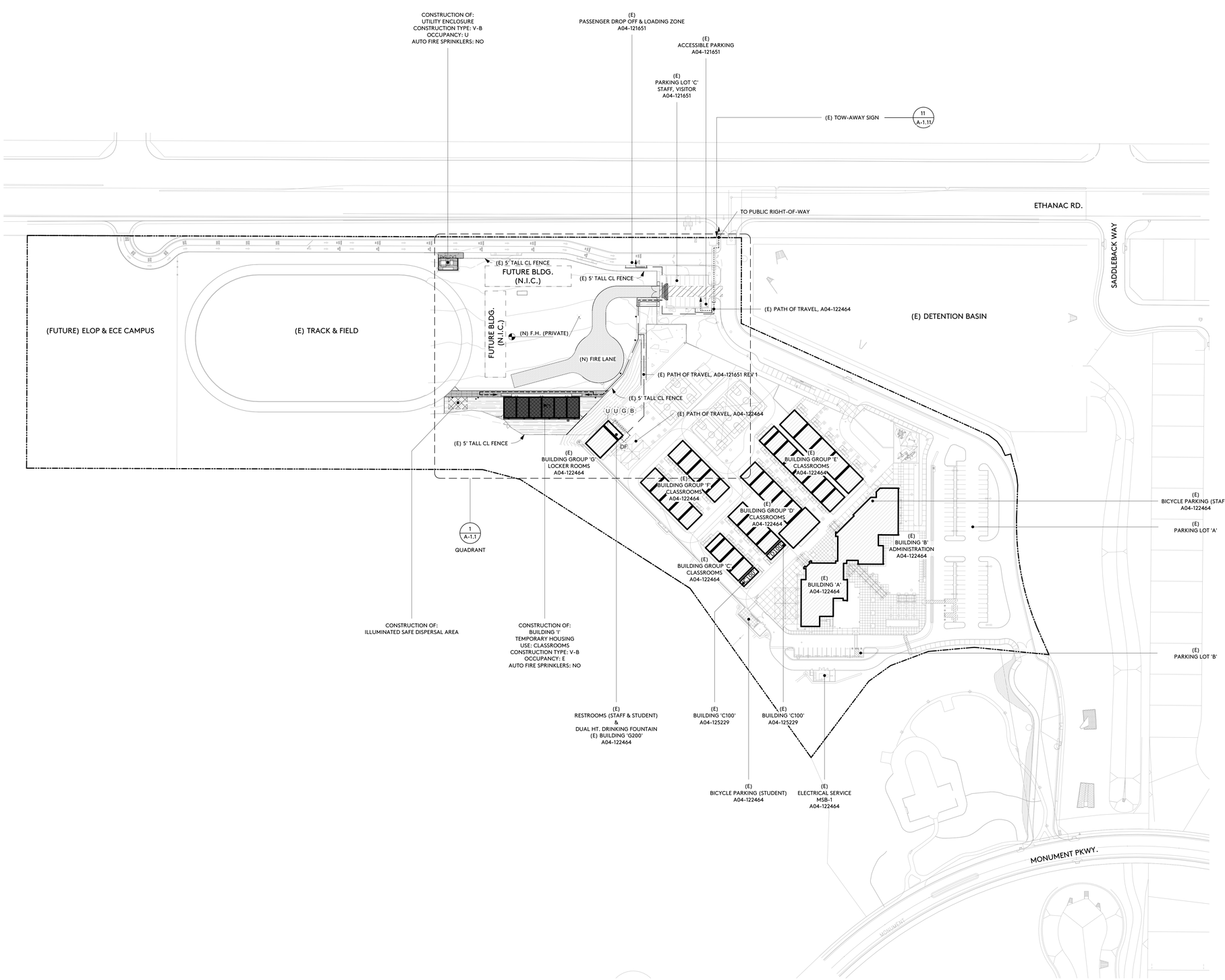
LICENSED ARCHITECT
DEREK C. STENFORD
NO. C34608
REN.12/27
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

BUILDING ANALYSIS

A-0.2

REV. # DATE



SITE PLAN

1" = 80'-0"

1. CONTRACTORS BIDDING OR PERFORMING WORK SHALL VERIFY THE CONDITIONS OF THE SITE, INCLUDING ACCESS BEFORE SUBMITTING BID OR COMMENCING WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOR PROMPT DIRECTION.
2. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES INDICATED OR NOT ON THE DRAWINGS ARE OBTAINED BY SEARCH OF AVAILABLE RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATIONS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES AND OTHER STRUCTURES. ANY DAMAGE SHALL BE PROMPTLY RESTORED TO THE OWNERS SATISFACTION.
3. REFERENCE CIVIL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL UNDERGROUND UTILITY WORK TO BE COMPLETED IN THIS CONTRACT.
4. GENERAL CONTRACTOR TO COORDINATE ALL PHASING AND UTILITY INTERRUPTIONS OF THIS PROJECT WITH THE OWNER AND ARCHITECT AS TO DO THE LEAST POSSIBLE INTERRUPTIONS. (AS-REQ'D)
5. PROVIDE CONSTRUCTION BARRICADES AS REQUIRED TO PROTECT THE PUBLIC'S HEALTH AND SAFETY INCLUDING WORK UNDER CONSTRUCTION TO THE REQUIREMENTS OF THE OWNER. COVER OPEN TRENCHES WITH ADEQUATE SOLID MATERIAL.
6. EXCAVATION AND TRENCHING SHALL COMPLY WITH THE REQUIREMENTS OF THE TESTING LAB AND JURISDICTIONAL REQUIREMENTS AT THE TIME WORK COMMENCES AND UP TO COMPLETION OF THE WORK.
7. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN SAFETY PLAN. REFER TO DSA PUBLICATION BU 24-05 FOR FURTHER INFORMATION.
8. FOR GRATINGS OR STRAINERS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY IN THE PATH OF TRAVEL, THE MAXIMUM GRATE OR STRAINER OPENINGS SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
9. TEMPORARY CONSTRUCTION FENCING TO BE SUPPLIED BY CONTRACTOR
10. ALL NEW WALK SURFACES ON P.O.T.'S SHALL HAVE FLUSH TRANSITIONS TO ALL ADJACENT NEW OR EXISTING WALK SURFACES IN P.O.T.'S

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NO. C34608
REN.12/27
STATE OF CALIFORNIA

GENERAL NOTES

	12" = 1'-0"
TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING LOT	= 17
ACCESSIBLE PARKING (CBC TABLE 11B-208.2)	
1. MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES	= 01
2. STANDARD ACCESSIBLE PARKING STALLS	= 00
3. VAN ACCESSIBLE STALLS	= 01
4. TOTAL PROVIDED	= 01

(E) PARKING LOT 'C' CALCULATIONS

BLDG. (N) BUILDING
BLDG. (E) BUILDING
(N) CONCRETE PAVING
CONTROL JOINT — 2 A-1.9
CONSTRUCTION JOINT — 3 A-1.9
(N) ASPHALT PAVING — 6 A-1.9
(N) CRUSHED BASE ROADWAY — 10 A-1.9
(N) LANDSCAPE PLANTING & IRRIGATION, SEE LANDSCAPE DRAWINGS

B BOYS RESTROOM, MULTI-OCCUPANCY
G GIRLS RESTROOM, MULTI-OCCUPANCY
U ALL GENDER RESTROOM, SINGLE OCCUPANCY
DF DRINKING FOUNTAIN

SITE PROPERTY LINE
(N) PATH OF TRAVEL
(E) PATH OF TRAVEL, A04-122464
(E) PATH OF TRAVEL, A04-121651 REV 1

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
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SYMBOLS

1" = 80'-0"

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE PLAN

A-1.0

10/9/2026 9:00:46 AM

REV. # DATE

2 A-1.3 ELECTRICAL ENCLOSURE

1 A-1.2 (E) PASSENGER DROP-OFF & LOADING ZONE A04-121651

3 A-1.3 ENTRY

(E) PEDESTRIAN GATE A04-121651

TO PUBLIC RIGHT OF WAY

SG-01 SG-02a SG-02b SG-03a SG-03b SD-01 PH SD-02 PH

FUTURE BUILDING FOOTPRINT (PHASE 2)

FUTURE BUILDING FOOTPRINT (PHASE 2)

BUILDING FACE

FF = 1432.61

(E) DETECTABLE WARNING PAVERS A04-121651 — 4 A-1.10

(E) PEDESTRIAN CROSSING WITH PAINTED WHITE STRIPING, A04-121651

(E) DETECTABLE WARNING PAVERS A04-121651 — 4 A-1.10

(E) DETECTABLE WARNING PAVERS A04-121651 — 4 A-1.10

(E) PEDESTRIAN CROSSING WITH PAINTED WHITE STRIPING, A04-121651

(E) PATH OF TRAVEL, A04-122464

EQ EQ 22'-0" SG-04a SG-04b SG-05 21'-0" EQ EQ

48'-0" 28'-0" 26'-0" 28'-0" 28'-0"

FIRE HYDRANT 3 A-1.2

(E) PATH OF TRAVEL, A04-121651 REV 1

1 A-1.3 (E) ACCESSIBLE PARKING A04-121651

1 A-1.4 (E) ACCESSIBLE RAMP A04-121651

125'-0" 28'-0" 48'-0" 26'-0"

ALIGN

(E) PATH OF TRAVEL, A04-121651 REV 1

(E) PATH OF TRAVEL, A04-122651 REV 1

TO TRACK AND FIELD

EQ EQ 38'-6" 12'-0" 43'-0" BUILDING FACE

BUILDING 'I1' BUILDING 'I2' BUILDING 'I3' BUILDING 'I4' BUILDING 'I5' BUILDING 'I6'

SG-07 PH SG-06 PH SG-08a SG-08b

U U G B DF

(E) PATH OF TRAVEL, A04-122464

TO ADMINISTRATION BUILDING

50'-0" 50'-0"

CONSTRUCTION OF: ILLUMINATED SAFE DISPERSAL

2 A-1.2 BUILDING 'I' TEMPORARY HOUSING

(E) RESTROOMS (STAFF & STUDENT) & DUAL HT. DRINKING FOUNTAIN (E) BUILDING 'G200' A04-122464

ENLARGED SITE PLAN - QUADRANT

1" = 20'-0"

SYMBOLS

1" = 20'-0"

BLDG. (N) BUILDING

BLDG. (E) BUILDING

(N) CONCRETE PAVING — 2 A-1.9

CONTROL JOINT — 2 A-1.9

CONSTRUCTION JOINT — 3 A-1.9

(N) ASPHALT PAVING — 6 A-1.9

(N) CRUSHED BASE ROADWAY — 10 A-1.9

(N) LANDSCAPE PLANTING & IRRIGATION, SEE LANDSCAPE DRAWINGS

(N)DG (N) DECOMPOSED GRANITE PAVING — 9 A-1.9

M MENS RESTROOM, MULTI-OCCUPANCY

W WOMENS RESTROOM, MULTI-OCCUPANCY

B BOYS RESTROOM, MULTI-OCCUPANCY

G GIRLS RESTROOM, MULTI-OCCUPANCY

U ALL GENDER RESTROOM, SINGLE OCCUPANCY

DF DRINKING FOUNTAIN

1 A-1.0 DETAIL REFERENCE NUMBER / SHEET REFERENCE NUMBER

SG-X PH SITE GATE, SEE SCHEDULE / GATE EQUIPPED WITH EXIT DEVICE, SEE SCHEDULE — 1 A-1.5

SD-X PH SITE DOOR, SEE SCHEDULE / DOOR EQUIPPED WITH EXIT DEVICE, SEE SCHEDULE — 1 A-1.5

POST TOP LUMINAIRE — 4 A-1.12

SITE WALL - CONCRETE MASONRY UNIT

SITE PROPERTY LINE

(N) PATH OF TRAVEL

(E) PATH OF TRAVEL, A04-122464

(E) PATH OF TRAVEL, A04-121651 REV 1

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
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PJHM architects

LICENSED ARCHITECT DEREK C. STENR, CA NO. C34608 REN.12/27 STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE PLAN - ENLARGED

A-1.1

10/9/2026 9:00:48 AM

REV. # DATE

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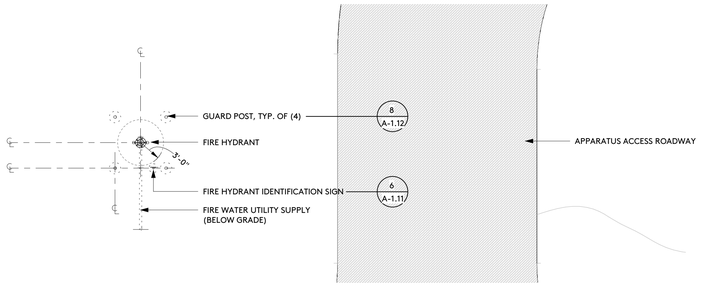
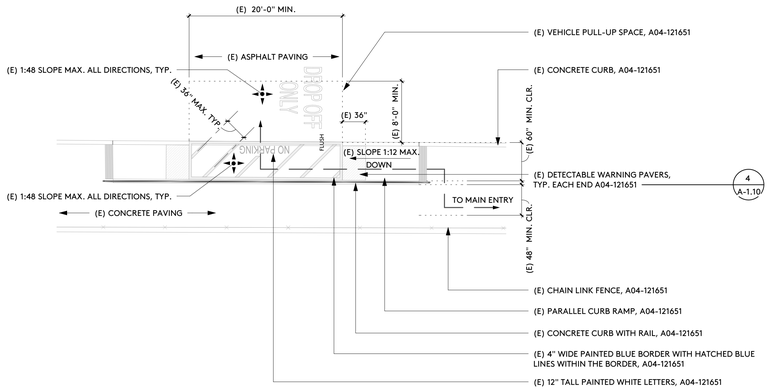


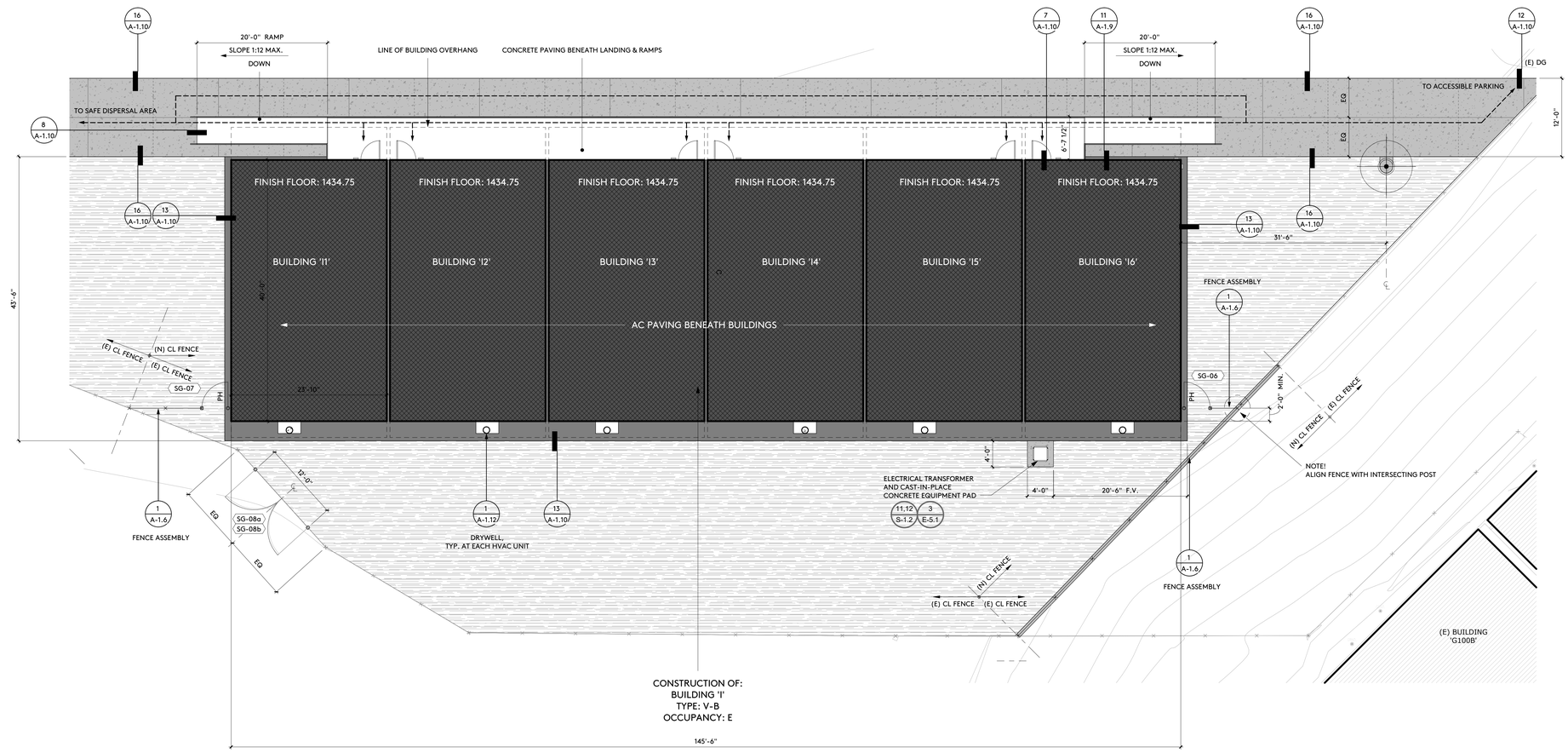
ENLARGED SITE PLAN - HYDRANT

1/8" = 1'-0"



ENLARGED SITE PLAN - (E) PASSENGER DROP-OFF & LOADING ZONE (A04-121651)

1/8" = 1'-0"



ENLARGED SITE PLAN - COURTYARD

1/8" = 1'-0"

SYMBOLS

1/8" = 1'-0"

- (N) BUILDING
- (E) BUILDING
- CONCRETE PAVING — 2 A-1.9
- CONTROL JOINT — 2 A-1.9
- CONSTRUCTION JOINT — 3 A-1.9
- (N) ASPHALT PAVING — 6 A-1.9
- (N) LANDSCAPE PLANTING & IRRIGATION, SEE LANDSCAPE DRAWINGS
- (N) DG — (N) DECOMPOSED GRANITE PAVING — 9 A-1.9
- 1 A-1.0 — DETAIL REFERENCE NUMBER / SHEET REFERENCE NUMBER
- SG-X — SITE GATE, SEE SCHEDULE — 1 A-1.5
- PH — GATE EQUIPPED WITH EXIT DEVICE, SEE SCHEDULE
- SD-X — SITE DOOR, SEE SCHEDULE — 1 A-1.5
- PH — DOOR EQUIPPED WITH EXIT DEVICE, SEE SCHEDULE
- ELEVATION DATUM
- POST TOP LUMINAIRE — 4 A-1.12
- SITE WALL - CONCRETE MASONRY UNIT
- (N) PATH OF TRAVEL
- (E) PATH OF TRAVEL, A04-122464
- (E) PATH OF TRAVEL, A04-121651 REV 1

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
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GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE PLAN - ENLARGED

A-1.2

10/9/2026 9:00:50 AM

REV. # DATE

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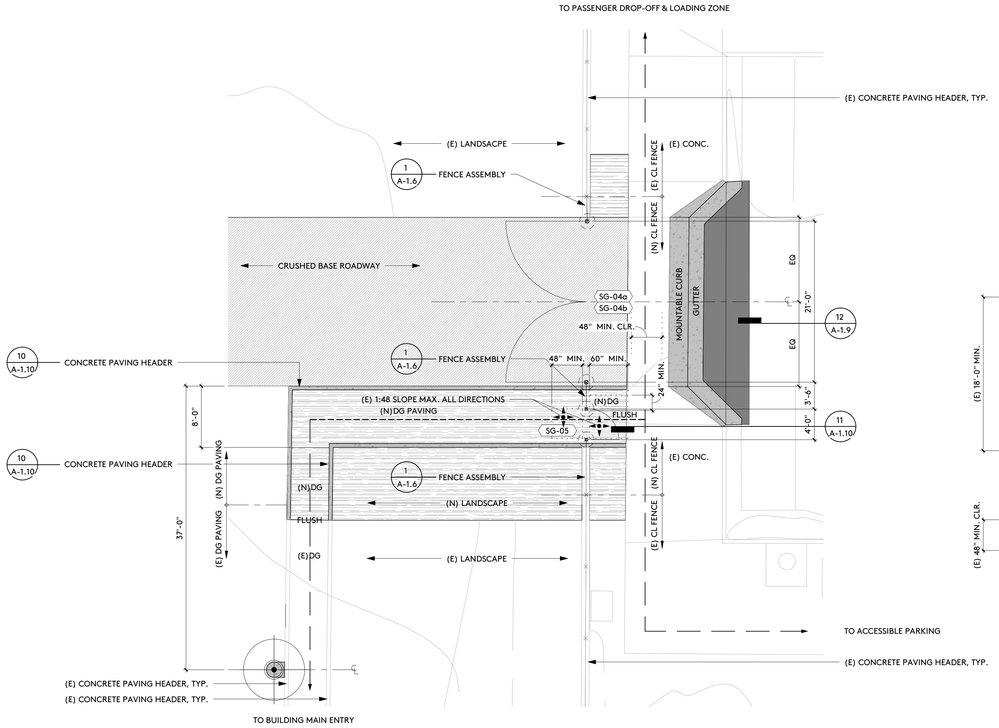
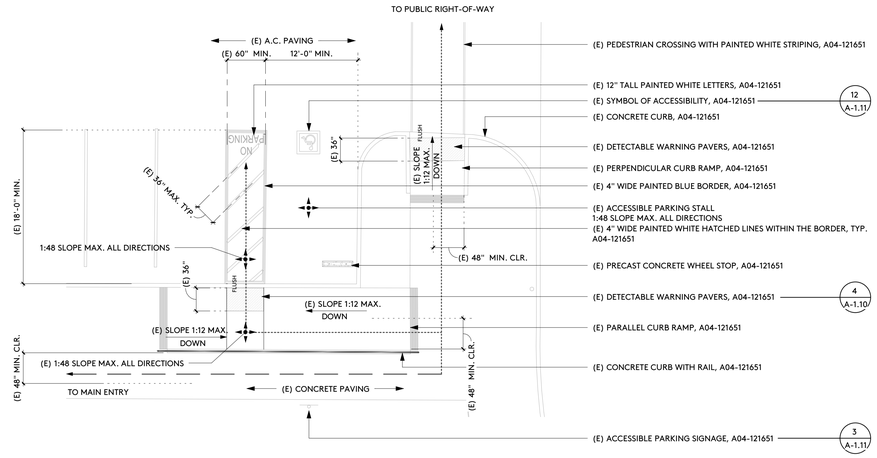


ENLARGED SITE PLAN - ENTRY GATES

1

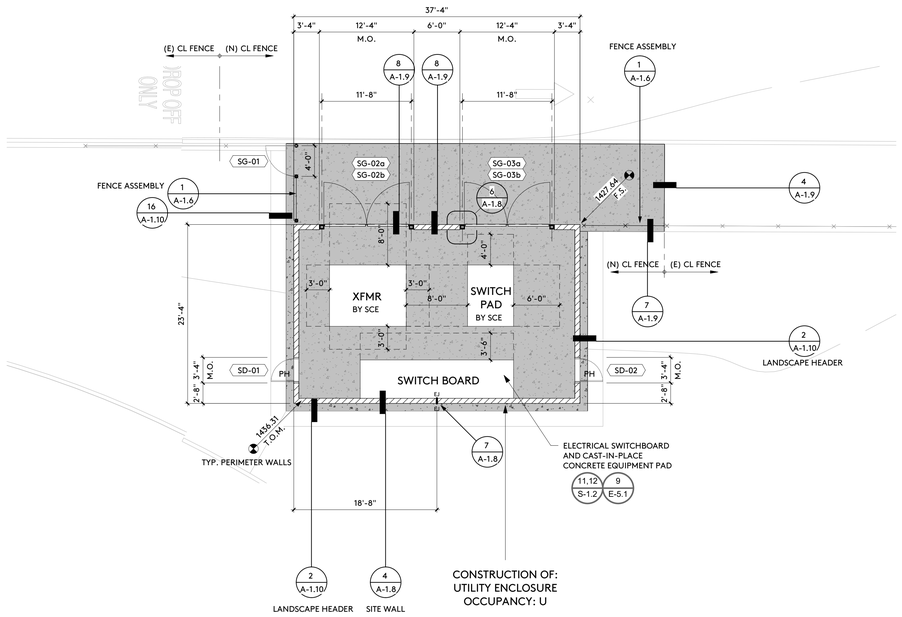
1/8" = 1'-0"



ENLARGED SITE PLAN - (E) ACCESSIBLE PARKING (A04-121651)

1

1/8" = 1'-0"



ENLARGED SITE PLAN - UTILITY ENCLOSURE

2

1/8" = 1'-0"

(N) BUILDING

(E) BUILDING

CONCRETE PAVING — 2 A-1.9

CONTROL JOINT — 2 A-1.9

CONSTRUCTION JOINT — 3 A-1.9

(N) ASPHALT PAVING — 6 A-1.9

(N) DG — (N) LANDSCAPE PLANTING & IRRIGATION, SEE LANDSCAPE DRAWINGS

(N) DECOMPOSED GRANITE PAVING — 9 A-1.9

1 A-1.0 DETAIL REFERENCE NUMBER / SHEET REFERENCE NUMBER

SG-X SITE GATE, SEE SCHEDULE — 1 A-1.5

PH GATE EQUIPPED WITH EXIT DEVICE, SEE SCHEDULE

SD-X SITE DOOR, SEE SCHEDULE — 1 A-1.5

PH DOOR EQUIPPED WITH EXIT DEVICE, SEE SCHEDULE

ELEVATION DATUM

POST TOP LUMINAIRE — 4 A-1.12

SITE WALL - CONCRETE MASONRY UNIT

(N) PATH OF TRAVEL

(E) PATH OF TRAVEL, A04-122464

(E) PATH OF TRAVEL, A04-121651 REV 1

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SYMBOLS

2

1/8" = 1'-0"

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE PLAN - ENLARGED

A-1.3

10/9/2026 9:00:51 AM

REV. # DATE

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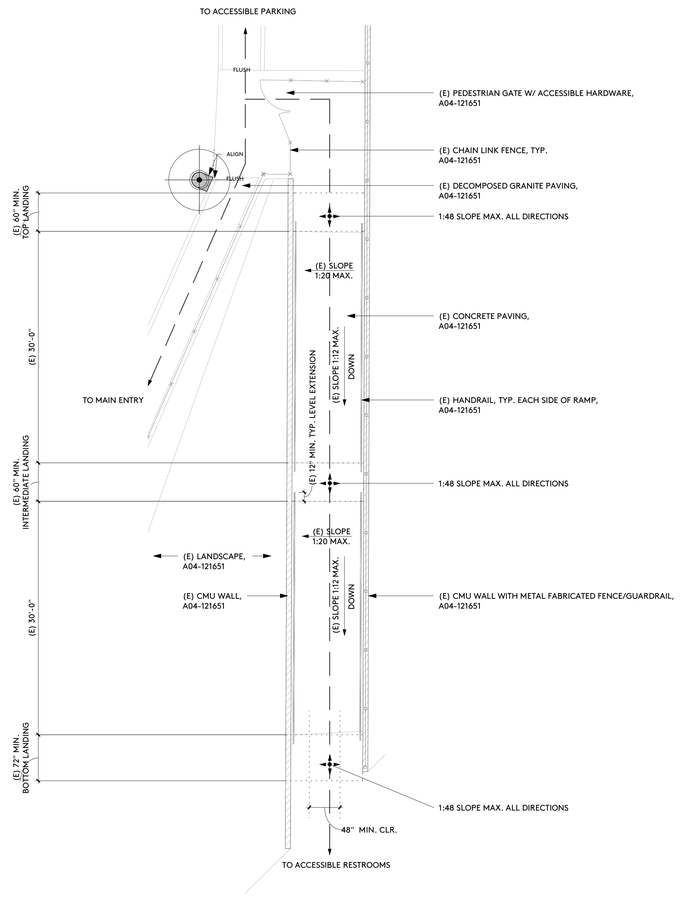

ENLARGED SITE PLAN - (E) SITE RAMP (A04-121651)

1/8" = 1'-0"

SYMBOLS

- (N) BUILDING
- (E) BUILDING
- CONCRETE PAVING — 2 / A-1.9
- CONTROL JOINT — 2 / A-1.9
- CONSTRUCTION JOINT — 3 / A-1.9
- (N) ASPHALT PAVING — 6 / A-1.9
- (N) LANDSCAPE PLANTING & IRRIGATION, SEE LANDSCAPE DRAWINGS
- (N) DG
- (N) DECOMPOSED GRANITE PAVING — 9 / A-1.9
- 1 / A-1.0 — DETAIL REFERENCE NUMBER / SHEET REFERENCE NUMBER
- SG-X — SITE GATE, SEE SCHEDULE — 1 / A-1.5
- PH — GATE EQUIPPED WITH EXIT DEVICE, SEE SCHEDULE
- SD-X — SITE DOOR, SEE SCHEDULE — 1 / A-1.5
- PH — DOOR EQUIPPED WITH EXIT DEVICE, SEE SCHEDULE
- ELEVATION DATUM
- POST TOP LUMINAIRE — 4 / A-1.12
- SITE WALL - CONCRETE MASONRY UNIT
- (N) PATH OF TRAVEL
- (E) PATH OF TRAVEL, A04-122464
- (E) PATH OF TRAVEL, A04-121651 REV 1

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EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE PLAN - ENLARGED

A-1.4

10/9/2026 9:00:52 AM

REV. # DATE

1. GATES THAT ARE PART OF THE ACCESSIBLE ROUTE SHALL MEET ALL THE REQUIREMENTS OF AN ACCESSIBLE DOOR IN COMPLIANCE WITH CBC SECTION 11B-404.
2. THE LEVERS OF LEVER ACTUATED LATCHES OR LOCKS FOR ACCESSIBLE GATES SHALL BE CURVED WITH A RETURN TO WITHIN 1/2" OF THE GATE SURFACES TO PREVENT CATCHING ON THE CLOTHING OR PERSONS. CALIFORNIA REFERENCED STANDARDS CODE. T-24 PART 12, SECTION 12-10-202, ITEM (F).
3. SWING DOORS AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR OR GROUND SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED. CBC SECTION 11B-404.2.10.
4. EMERGENCY EXIT AND PANIC HARDWARE PER SFM STANDARD 12-10-3, SECTION 12-10-302:
   (a) THE CROSS-BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE.
   (d) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

GENERAL NOTES - GATES, AND HARDWARE ACCESSIBILITY 13

1/8" = 1'-0"

1. ALL FENCE AND GATE METAL FABRICATIONS SHALL BE: A.E.S.S. LEVEL 3
2. GATE AND FENCE INFILL PANELS Ɛ=50% PER ASCE 7, SECTION 26.3.
NO MEMBRANE OR MATERIAL CAN BE ATTACHED OR HUNG TO THE NETTING OR FENCING THAT WOULD EXCEED THE Ɛ ABOVE
3. FENCE/GATE FRAME ASSEMBLY SHALL BE FULLY WELDED, WELDS ALL AROUND WITH FILLET WELDS, SEE WELDING NOTES (9 / A-1.5)
4. FENCE AND GATE METAL FABRICATIONS SHALL BE FINISHED AS NOTED ON DETAILS:
   a. FOR SHOP-PRIMER SPECIFICATION, SEE SECTION 05 50 00 METAL FABRICATIONS
   b. FOR FIELD PAINT SPECIFICATION (TOP COATS), SEE SECTION 09 91 13 EXTERIOR PAINTING
   c. FOR POWDER COATING SPECIFICATION, SEE SECTION 05 05 13 SHOP-APPLIED METAL FINISHES
   d. FOR HOT-DIP GALVANIZED SPECIFICATION, SEE SECTION 05 50 00 METAL FABRICATIONS
5. PRODUCT DATA AND SHOP DRAWINGS ARE REQUIRED FOR ALL FENCE AND GATE METAL FABRICATIONS. APPROVED SUBMITTALS ARE REQUIRED PRIOR TO FABRICATION. SHOP DRAWINGS SHALL NOT BE THE REPRODUCTION OF CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS OF SHOP DRAWINGS. SHOP DRAWINGS SHALL BE NEWLY PREPARED CONTENT AND PROJECT SPECIFIC. SHOP DRAWINGS SHALL BE DRAWN TO SCALE, UTILIZING INDUSTRY STANDARD CAD SOFTWARE (i.e. AUTOCAD, REVIT, ETC.).
6. SHOP DRAWINGS SHALL INCLUDE: 1) SITE PLAN, 2) EACH GATE DRAWING IN PLAN VIEW AND ELEVATION VIEW IDENTIFYING ADJACENT FINISH SURFACE GRADES AND SURROUNDING CONSTRUCTION (I.E. SITE WALLS, BUILDING WALLS, EXISTING FENCES, EXISTING GATES, SUBGRADE UTILITIES TRAVERSING FENCE LINE, ETC.), 3) TOTAL GATE LEAF WEIGHT (INCLUDING ALL ACCESSORIES) FOR EACH GATE, 4) WELDING PROCEDURES, 5) MATERIAL DESIGNATIONS AND FINISHES, 6) FOOTING SIZES.
7. PIPES SIZES ARE NOMINAL, UNLESS NOTED OTHERWISE.

FABRICATION AND SHOP DRAWING REQUIREMENTS 14

1/8" = 1'-0"

1. WELDING PROCEDURES, ELECTRODES AND WELDER QUALIFICATIONS SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION", AMERICAN WELDING SOCIETY (AWS), D1.1 AND THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
2. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS, AND SHALL BE CERTIFIED FOR THE WORK THEY ARE PERFORMING.
3. PROJECT WELDING SHALL BE PERFORMED ONLY IN ACCORDANCE WITH WELDING PROCEDURE SPECIFICATIONS (WPS) SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE EOR AND PROJECT WELDING INSPECTOR. THE WPS SHALL BE IN ACCORDANCE WITH AWS D1.1-D1.4 CURRENT EDITION.
4. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED PER AWS D1.1 USING E70XX ELECTRODES UNLESS OTHERWISE NOTED.
5. WELDING OF REINFORCING BARS SHALL BE PERFORMED PER AWS D1.4 USING E90XX ELECTRODES.
6. WELDING OF METAL DECK AND LIGHT GAGE STEEL SHALL BE IN ACCORDANCE WITH AWS D1.3.
7. ALL EXPOSED WELDS ON ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
8. FIELD WELDS HAVE BEEN INDICATED WHERE THEY ARE EXPECTED TO OCCUR. THE CONTRACTOR SHALL DETERMINE THE ACTUAL FIELD WELDING NECESSARY TO COMPLETE THE PROJECT AND INCLUDE ALL ASSOCIATED COSTS WITHIN THE BASE BID

GENERAL NOTES - WELDING 9

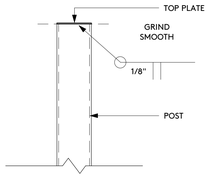
1/8" = 1'-0"

GATE SCHEDULE AS FOLLOWS:

GATE NUMBER	USE	HARDWARE GROUP	EXIT DEVICE REQUIRED	MATERIAL	FINISH	DETAIL
SD-01	SERVICE/EXIT	HW-1	YES	HOLLOW METAL DOOR & FRAME	SHOP PRIME/FIELD PAINT	DETAIL 1 / A-1.7
SD-02	SERVICE/EXIT	HW-1	YES	HOLLOW METAL DOOR & FRAME	SHOP PRIME/FIELD PAINT	DETAIL 1 / A-1.7
SG-01	SERVICE	HW-SG1	NO	FRAME: STEEL PIPE, INFILL PANEL: CHAIN LINK FENCE FABRIC	HOT-DIP GALV.	DETAIL 3 / A-1.7
SG-02a	SERVICE	HW-SG2	NO	FRAME: STEEL ANGLE, INFILL PANEL: STEEL DECKING	SHOP PRIME/FIELD PAINT	DETAIL 2 / A-1.7
SG-02b	SERVICE	HW-SG2	NO	FRAME: STEEL ANGLE, INFILL PANEL: STEEL DECKING	SHOP PRIME/FIELD PAINT	DETAIL 2 / A-1.7
SG-03a	SERVICE	HW-SG2	NO	FRAME: STEEL ANGLE, INFILL PANEL: STEEL DECKING	SHOP PRIME/FIELD PAINT	DETAIL 2 / A-1.7
SG-03b	SERVICE	HW-SG2	NO	FRAME: STEEL ANGLE, INFILL PANEL: STEEL DECKING	SHOP PRIME/FIELD PAINT	DETAIL 2 / A-1.7
SG-04a	VEHICLE ACCESS	HW-SG3	NO	FRAME: STEEL PIPE, INFILL PANEL: CHAIN LINK FENCE FABRIC	HOT-DIP GALV.	DETAIL 6 / A-1.7
SG-04b	VEHICLE ACCESS	HW-SG3	NO	FRAME: STEEL PIPE, INFILL PANEL: CHAIN LINK FENCE FABRIC	HOT-DIP GALV.	DETAIL 6 / A-1.7
SG-05	PEDESTRIAN	HW-SG4	NO	FRAME: STEEL PIPE, INFILL PANEL: CHAIN LINK FENCE FABRIC	HOT-DIP GALV.	DETAIL 4 / A-1.7
SG-06	SERVICE/EXIT	HW-SG6	YES	FRAME: STEEL PIPE, INFILL PANEL: CHAIN LINK FENCE FABRIC	HOT-DIP GALV.	DETAIL 4 / A-1.6
SG-07	SERVICE/EXIT	HW-SG6	YES	FRAME: STEEL PIPE, INFILL PANEL: CHAIN LINK FENCE FABRIC	HOT-DIP GALV.	DETAIL 4 / A-1.6
SG-08a	SERVICE	HW-SG5	NO	FRAME: STEEL PIPE, INFILL PANEL: CHAIN LINK FENCE FABRIC	HOT-DIP GALV.	DETAIL 5 / A-1.7
SG-08b	SERVICE	HW-SG5	NO	FRAME: STEEL PIPE, INFILL PANEL: CHAIN LINK FENCE FABRIC	HOT-DIP GALV.	DETAIL 5 / A-1.7

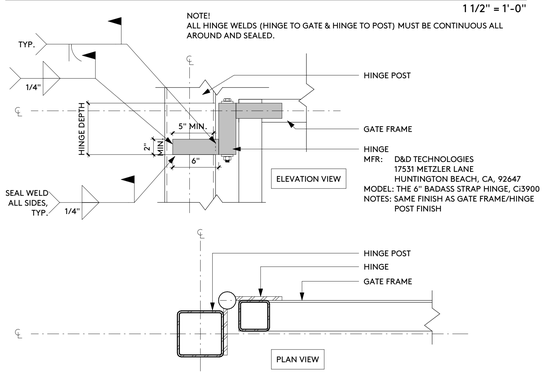
GATE SCHEDULE 1

1/8" = 1'-0"



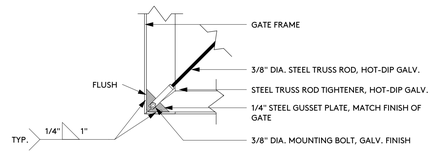
DETAIL 6

1 1/2" = 1'-0"



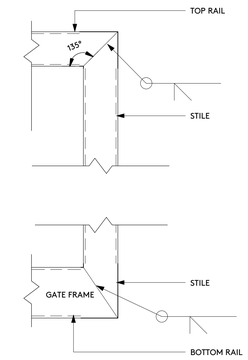
STEEL GATE - HINGE ANCHORAGE 7

1 1/2" = 1'-0"



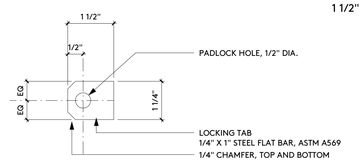
STEEL GATE - TRUSS ROD ATTACHMENT 8

1 1/2" = 1'-0"



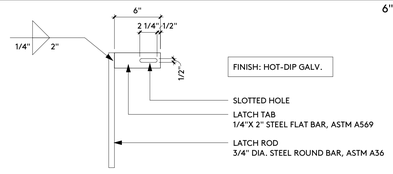
DETAIL 2

1 1/2" = 1'-0"



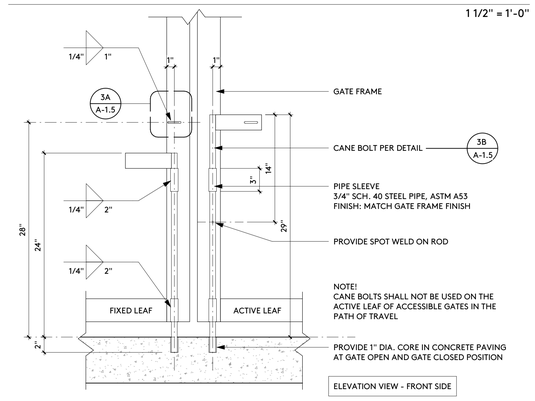
GATE HARDWARE - LOCKING TAB PROFILE 3A

6" = 1'-0"



GATE HARDWARE - CANE BOLT 3B

1 1/2" = 1'-0"



GATE HARDWARE - CANE BOLT 4

1 1/2" = 1'-0"

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DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEWART
NO. C34608
REN.12/27
STATE OF CALIFORNIA

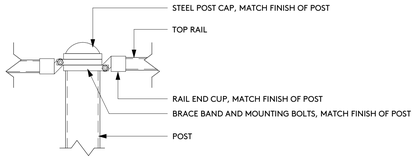
GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE DETAILS - FENCES, GATES, DOORS

A-1.5

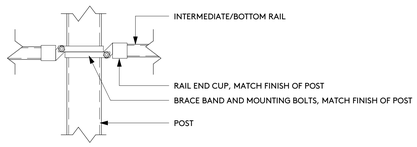
10/9/2026 9:00:53 AM

REV. # DATE



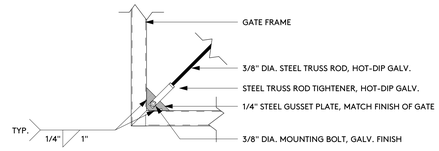
DETAIL 13A

1 1/2" = 1'-0"



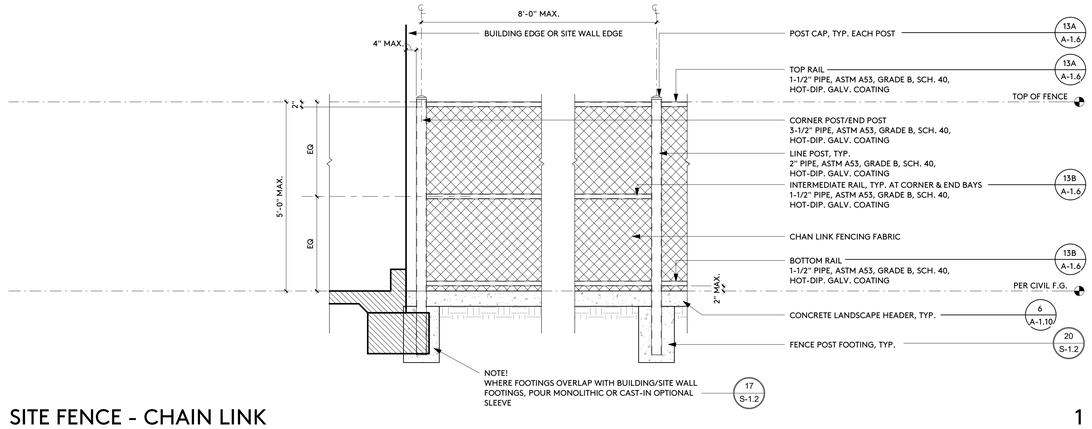
DETAIL 13B

1 1/2" = 1'-0"



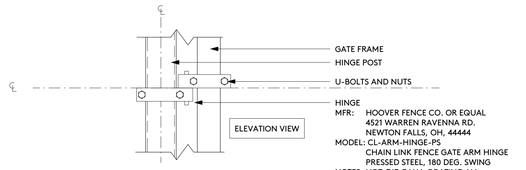
TRUSS ROD ATTACHMENT 9

1 1/2" = 1'-0"



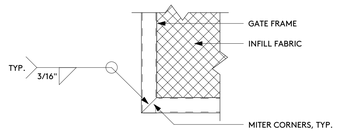
SITE FENCE - CHAIN LINK 1

1/2" = 1'-0"



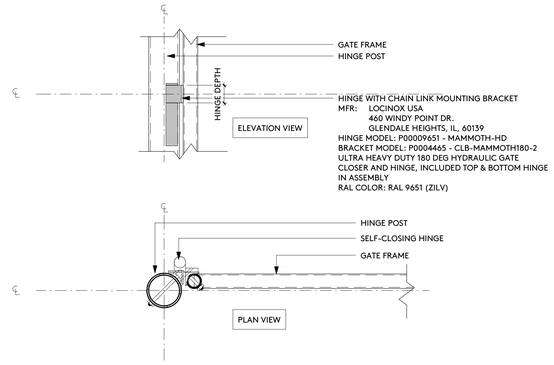
HINGE ANCHORAGE 14

1 1/2" = 1'-0"



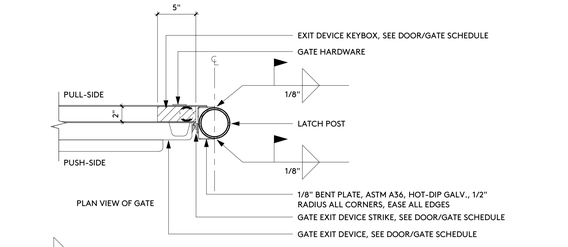
GATE FRAME CORNER 10

1 1/2" = 1'-0"



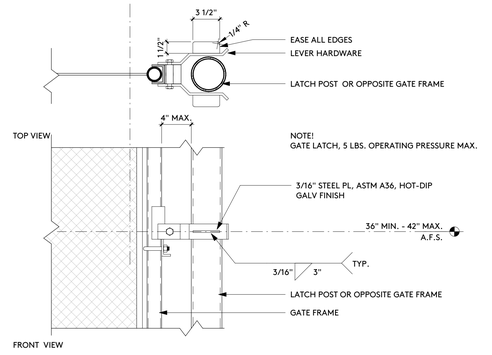
STEEL GATE - HINGE ANCHORAGE 6

1 1/2" = 1'-0"



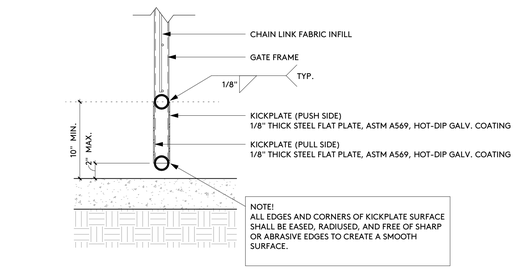
GATE HARDWARE 16

1 1/2" = 1'-0"



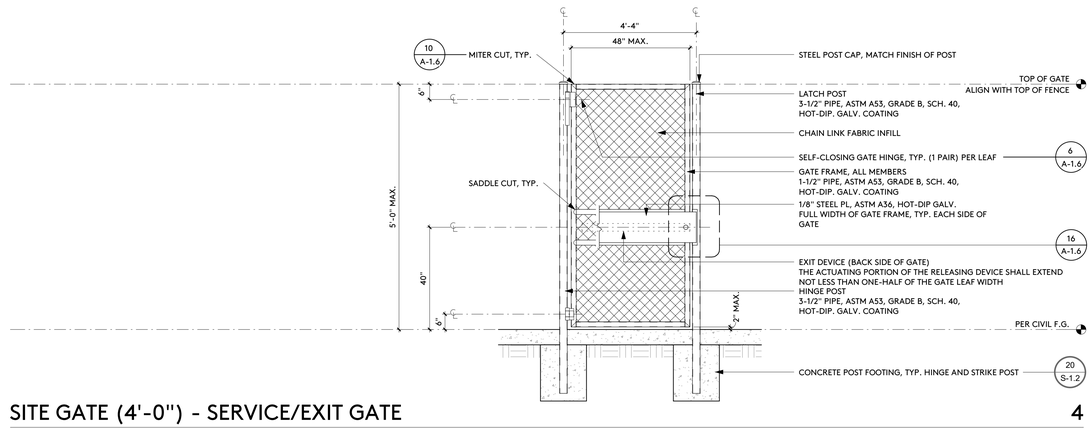
GATE HARDWARE 11

1 1/2" = 1'-0"



KICK PLATE ATTACHMENT 12

1 1/2" = 1'-0"



SITE GATE (4'-0") - SERVICE/EXIT GATE 4

1/2" = 1'-0"

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ROMOLAND SCHOOL DISTRICT

SITE DETAILS - FENCES, GATES, DOORS

A-1.6

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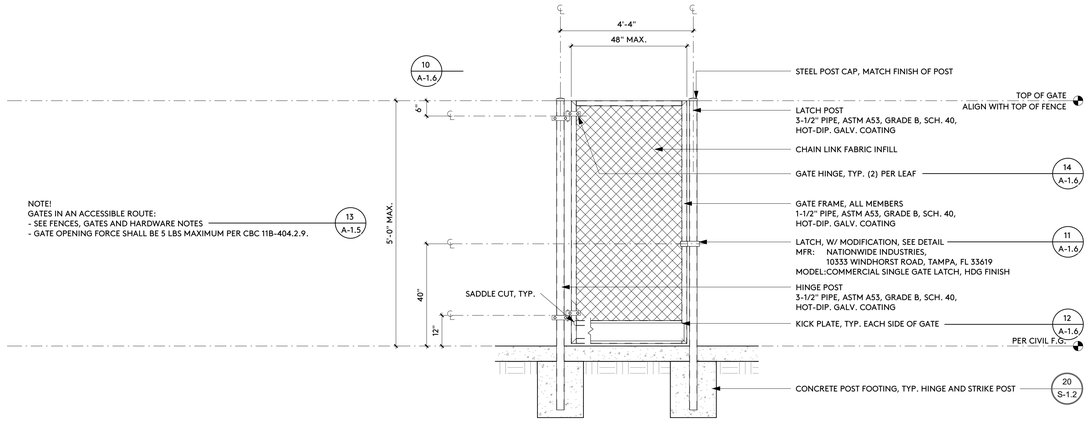
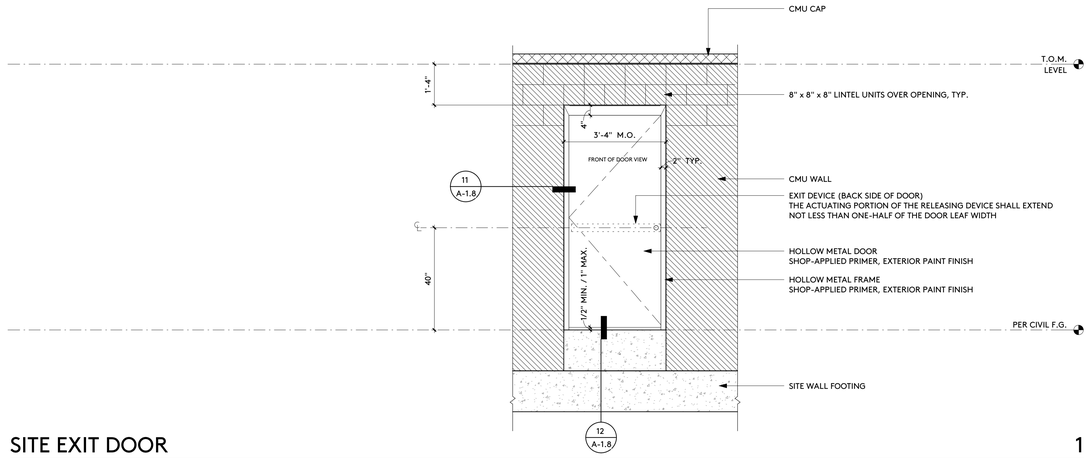


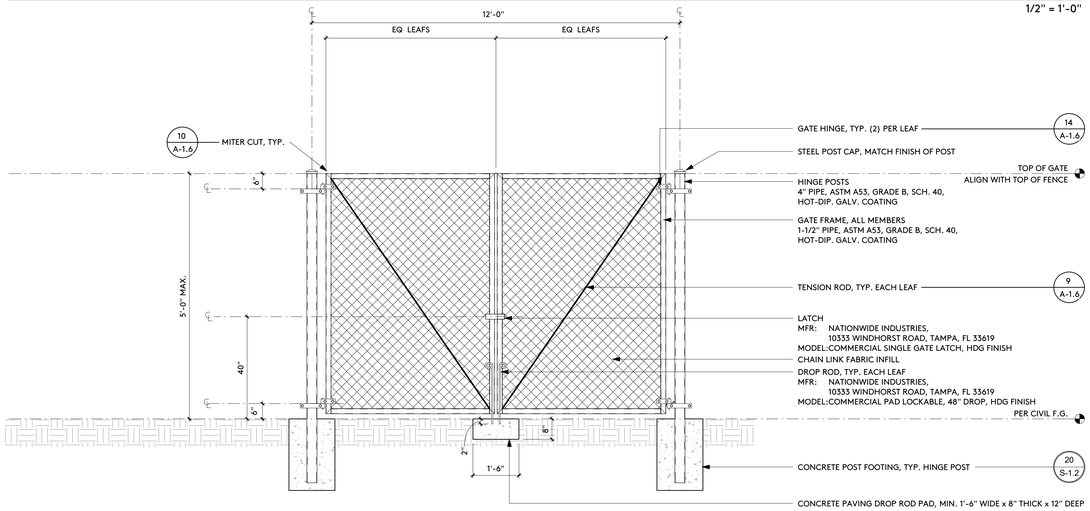
SITE GATE (4'-0") - PEDESTRIAN GATE 4

1/2" = 1'-0"



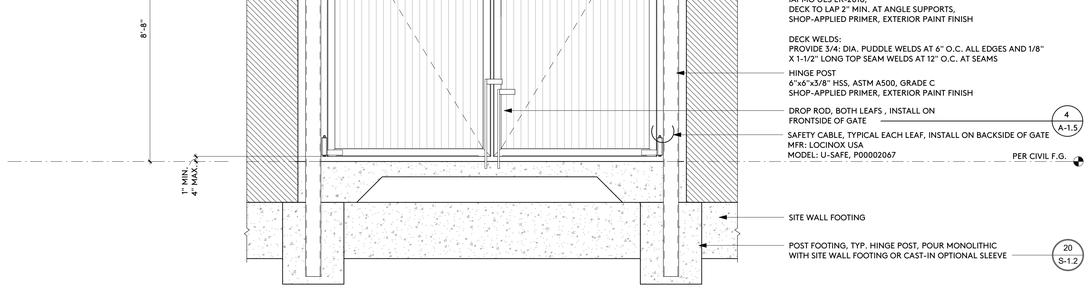
SITE EXIT DOOR 1

1/2" = 1'-0"



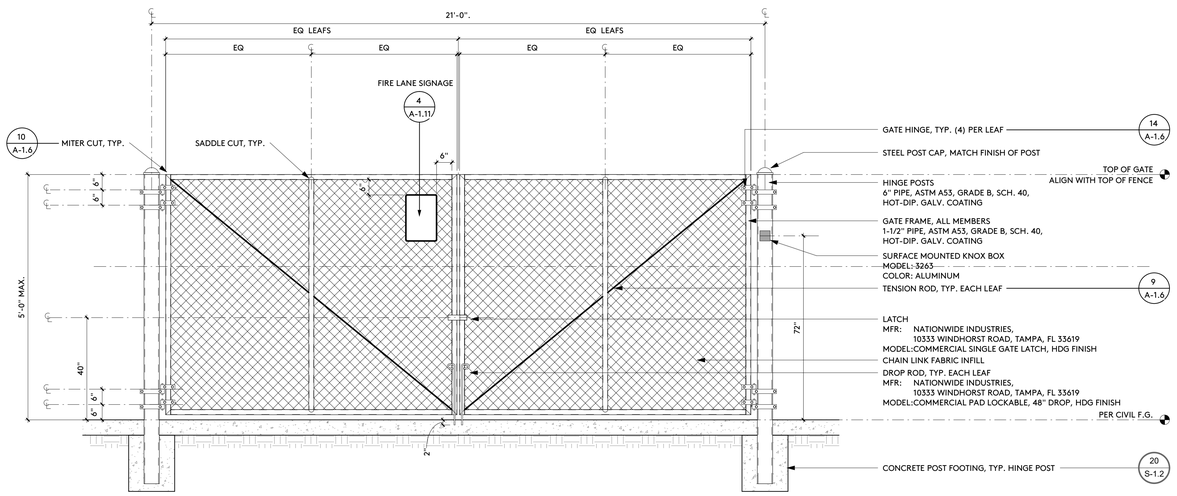
SITE GATE (10'-0") - SERVICE GATE 5

1/2" = 1'-0"



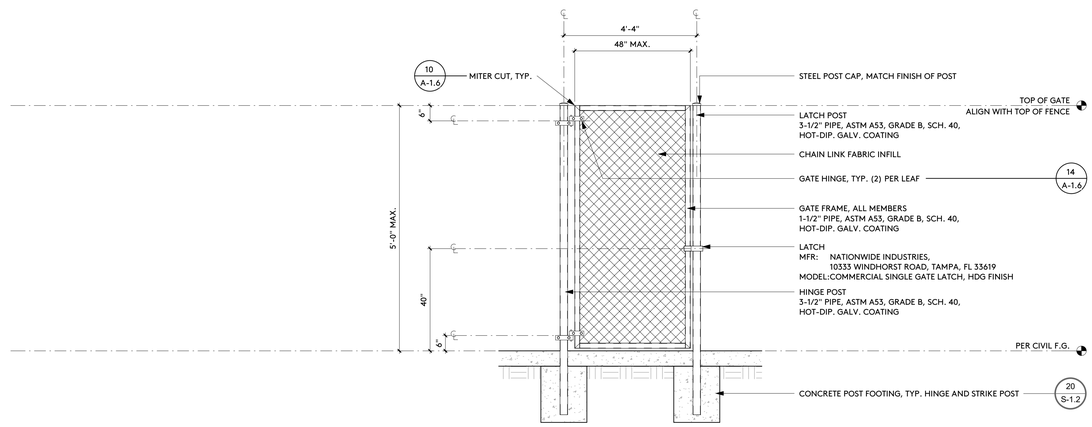
SITE GATE (11'-8") - SERVICE GATE 2

1/2" = 1'-0"



SITE GATE (21'-0") - SERVICE GATE 6

1/2" = 1'-0"



SITE GATE (4'-0") - SERVICE GATE 3

1/2" = 1'-0"

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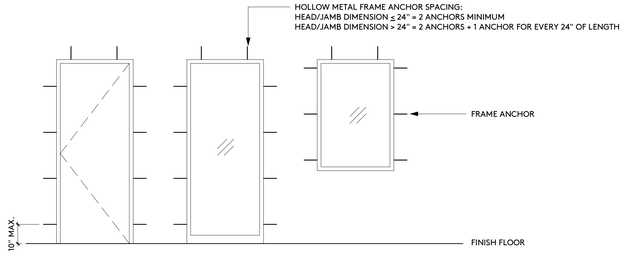
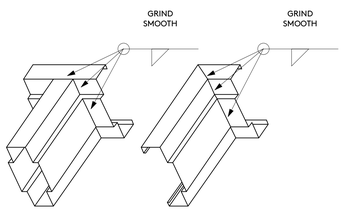


HM ANCHOR SPACING DIAGRAM 10

3/8" = 1'-0"

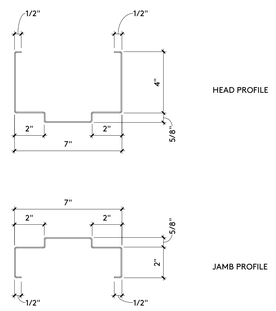
WELDING GENERAL NOTES:
1. ALL HOLLOW METAL FRAMES SHALL BE FULL PROFILE WELDED IN ACCORDANCE WITH ANSI A250.8 - CURRENT EDITION, SECTION 2.4.1.3
2. KNOCK-DOWN STYLE FRAMES WILL NOT BE PERMITTED
3. ALL FRAME ANCHORAGE MUST BE WELDED TO FRAME MEMBERS, 'TWIST-IN' STYLE OR LOOSE ANCHORS WILL NOT BE PERMITTED



GROUTING GENERAL NOTES:
1. GROUT MUST BE MIXED TO A 4" MAX. SLUMP PER ASTM C476 - STANDARD SPECIFICATION FOR GROUT FOR MASONRY
2. GROUT MUST BE HAND TROWELED IN PLACE AS THE MASONRY IS LAID.
3. CONTRACTOR SHALL BRACE THE FRAME DURING GROUT APPLICATION TO PREVENT BOWING AND SAGGING.
4. CONTRACTOR SHALL INSTALL IN ACCORDANCE WITH FRAME MANUFACTURER'S INSTRUCTIONS.
5. ALL GROUT ON EXPOSED SIDE OF FRAME SHALL BE REMOVED IMMEDIATELY.
6. FRAME INSTALLATION AND GROUTING SHALL BE IN ACCORDANCE WITH ANSI/SDI A250.8, SECTION 4.2 FRAME INSTALLATION.

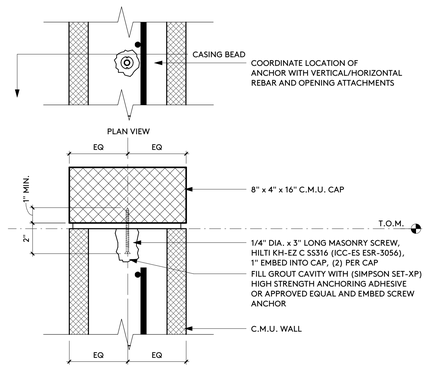
HM FRAME WELDING & GROUTING NOTES 15

3" = 1'-0"



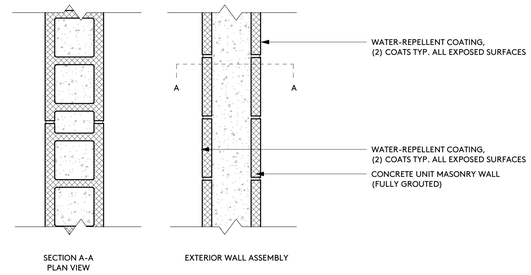
HM FRAME PROFILE 16

3" = 1'-0"



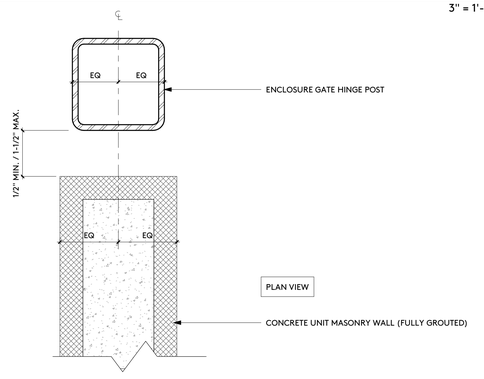
C.M.U. WALL CAP ANCHORAGE 5

3" = 1'-0"



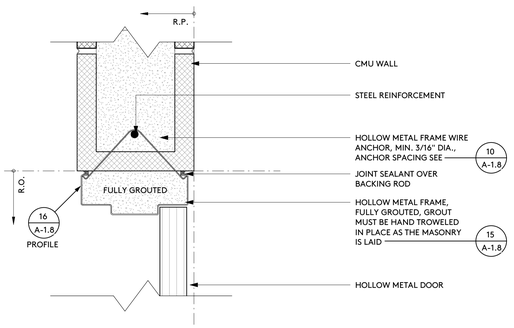
SITE WALL ASSEMBLY 1

1 1/2" = 1'-0"



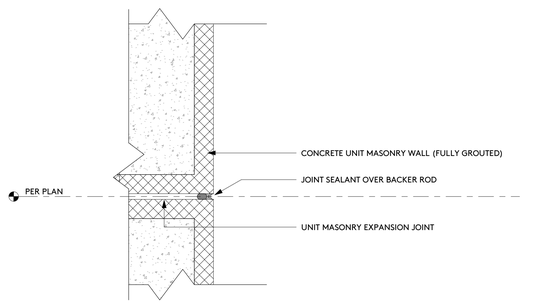
90 DEG. OUTSIDE CORNER 6

3" = 1'-0"



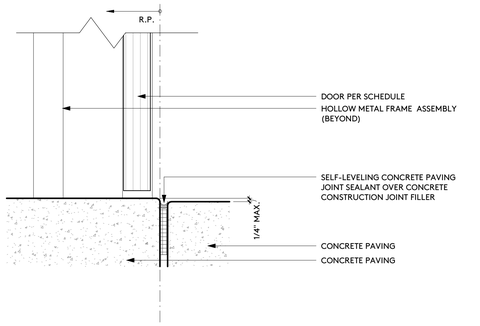
HEAD/JAMB 11

3" = 1'-0"



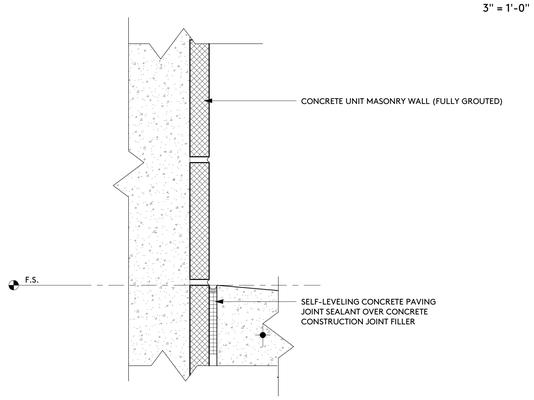
CONSTRUCTION JOINT 7

3" = 1'-0"



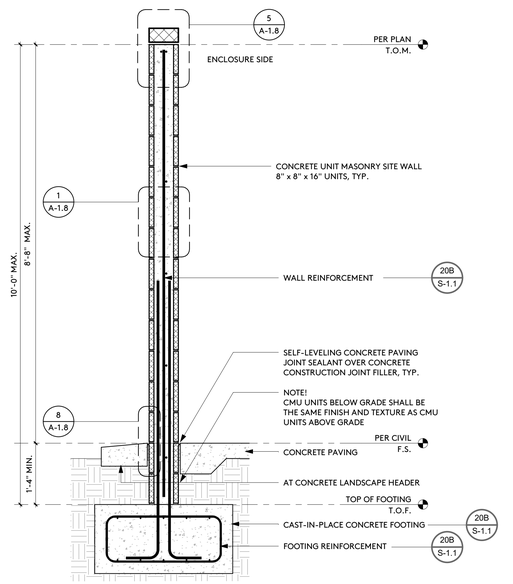
THRESHOLD 12

3" = 1'-0"



TERMINATION - AT GRADE 8

3" = 1'-0"



SITE WALL SECTION 4

3/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STENFORS
NO. C34608
REN.12/27
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE DETAILS - SITE WALLS

A-1.8

10/9/2026 9:00:55 AM

REV. # DATE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
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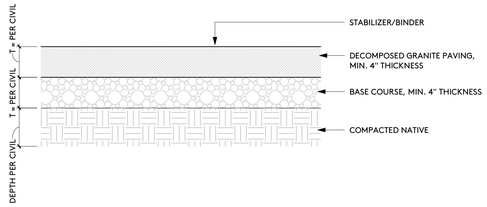
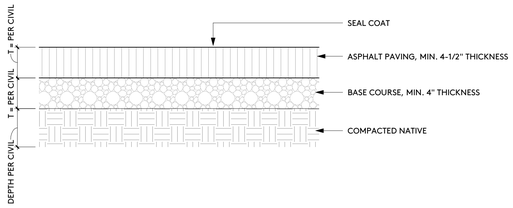
LICENSED ARCHITECT
DEREK C. STEWART
NO. C34608
REN.12/27
STATE OF CALIFORNIA



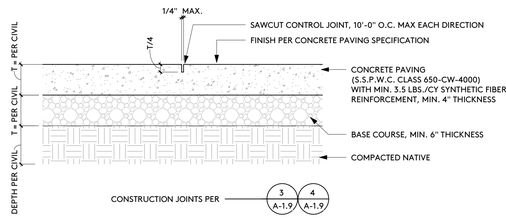
AT NON-APPARATUS ACCESS ROADWAY

DECOMPOSED GRANITE PAVING 9

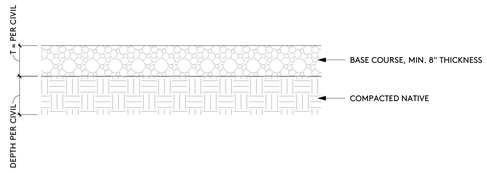
1 1/2" = 1'-0"



AT NON-APPARATUS ACCESS ROADWAY



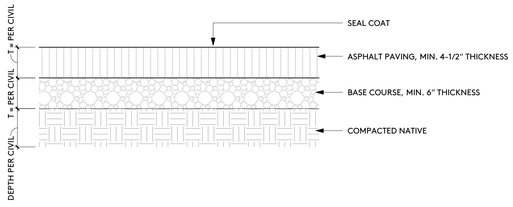
AT NON-APPARATUS ACCESS ROADWAY



AT APPARATUS ACCESS ROADWAY

CRUSHED BASE ROADWAY 10

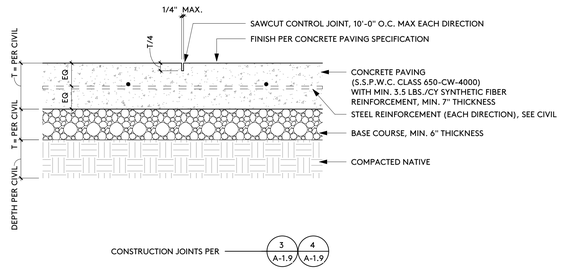
1 1/2" = 1'-0"



AT APPARATUS ACCESS ROADWAY

ASPHALT PAVING 6

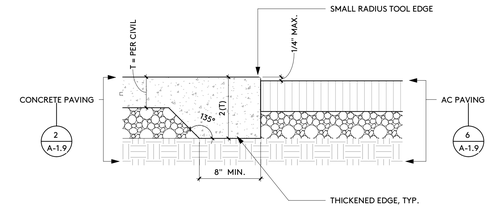
1 1/2" = 1'-0"



AT APPARATUS ACCESS ROADWAY

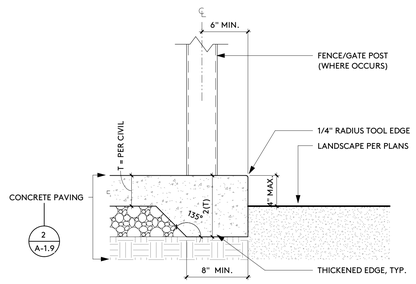
CONCRETE PAVING 2

1 1/2" = 1'-0"



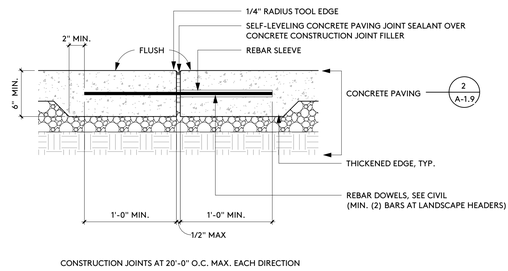
CONSTRUCTION JOINT - CONCRETE/AC 11

1 1/2" = 1'-0"



CONCRETE PAVING - SLAB EDGE 7

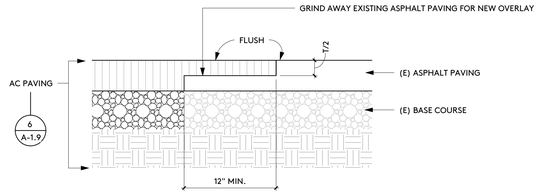
1 1/2" = 1'-0"



CONSTRUCTION JOINTS AT 20'-0" O.C. MAX. EACH DIRECTION

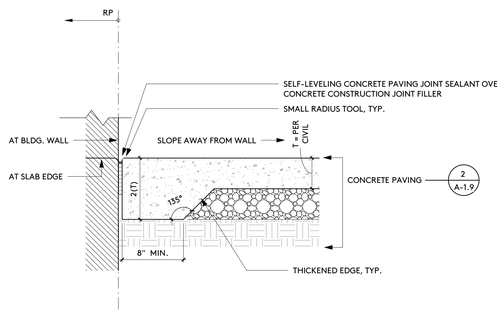
CONCRETE PAVING - CONSTRUCTION JOINT 3

1 1/2" = 1'-0"



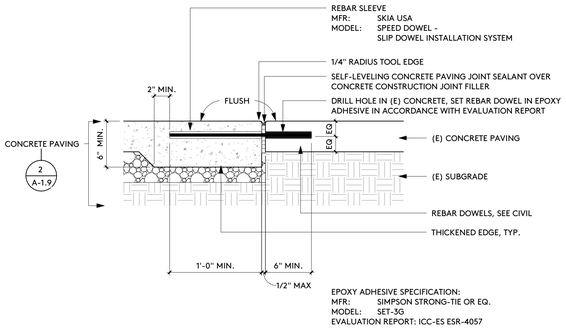
AC PAVING - CONSTRUCTION JOINT 12

1 1/2" = 1'-0"



CONCRETE PAVING - SLAB EDGE 8

1 1/2" = 1'-0"



CONCRETE PAVING - CONSTRUCTION JOINT 4

1 1/2" = 1'-0"

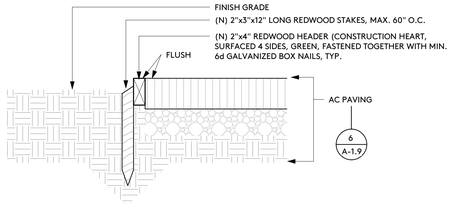
GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE DETAILS - HARDSCAPE

A-1.9

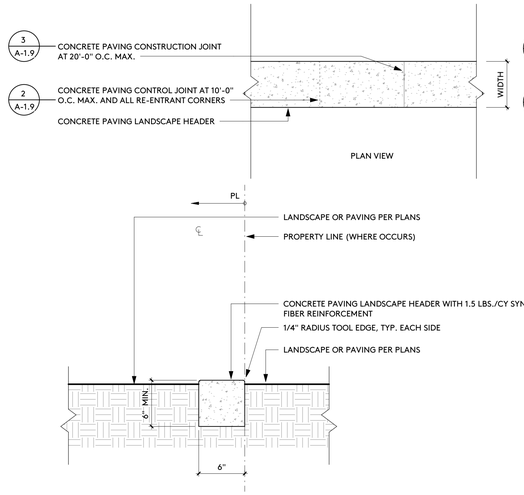
10/9/2026 9:00:55 AM

REV. # DATE



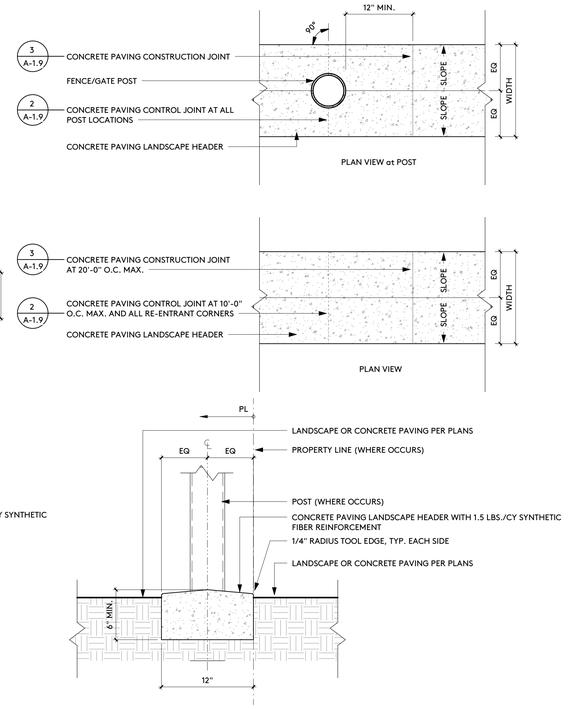
WOOD HEADER -ASPHALT PAVING 13

1 1/2" = 1'-0"



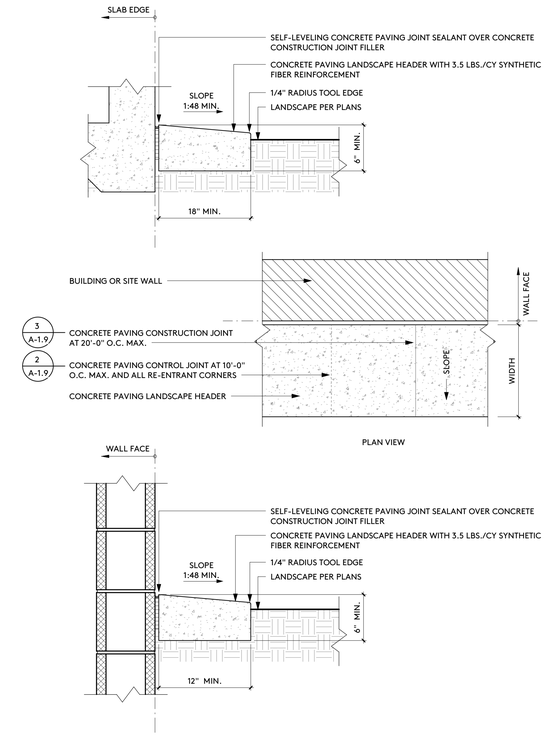
6" LANDSCAPE HEADER - CONCRETE 10

1 1/2" = 1'-0"



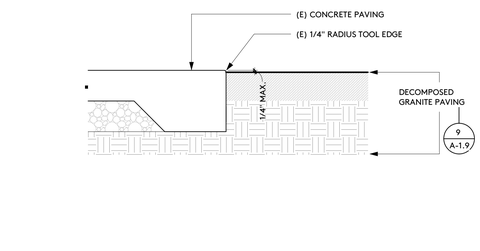
12" LANDSCAPE HEADER - CONCRETE 6

1 1/2" = 1'-0"



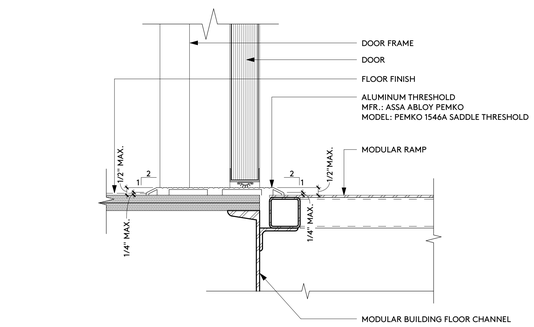
LANDSCAPE HEADER - CONCRETE 2

1 1/2" = 1'-0"



CONCRETE PAVING - SLAB EDGE 11

1 1/2" = 1'-0"

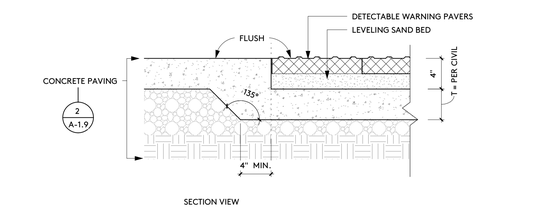


RAMP THRESHOLD AT DOOR 7

3" = 1'-0"

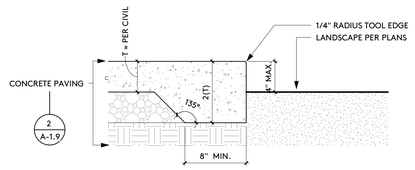
DETECTABLE WARNING SURFACES:

1. DETECTABLE WARNING SURFACES SHALL COMPLY WITH CBC SECTION 11B-705.1
2. DETECTABLE WARNING SURFACES AT TRANSIT BOARDING PLATFORM EDGES, BUS STOPS, HAZARDOUS VEHICULAR AREAS, REFLECTING POOLS, AND TRACK CROSSINGS SHALL BE YELLOW AND APPROXIMATE 33538 OF SAE AMS-STD-595A.
3. DETECTABLE WARNING SURFACES SHALL DIFFER FROM ADJOINING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT. SUCH CONSTRAINT SHALL NOT BE REQUIRED FOR DETECTABLE WARNING SURFACES AT CURB RAMPS, ISLANDS, OR CUT-THROUGH MEDIANS. CBC SECTION 11B-705.1.1.4 AND EXCEPTION.
4. PROVIDE MINIMUM 5 YEAR WARRANTY.



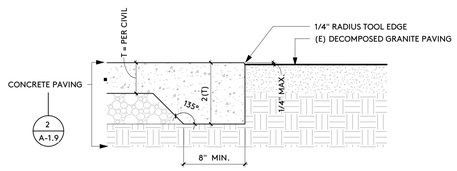
(E) DETECTABLE WARNING PAVERS 4

1 1/2" = 1'-0"



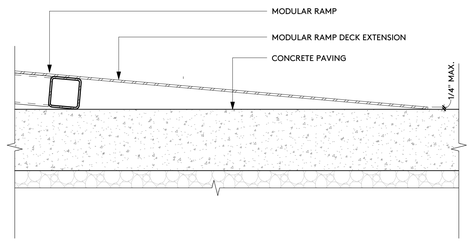
CONCRETE PAVING - SLAB EDGE 16

1 1/2" = 1'-0"



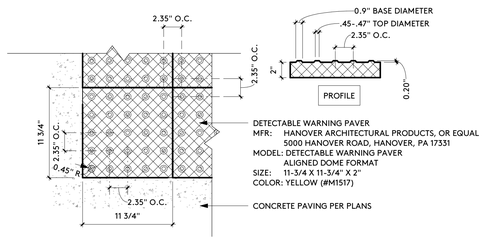
CONCRETE PAVING - SLAB EDGE 12

1 1/2" = 1'-0"



RAMP THRESHOLD AT LANDING 8

3" = 1'-0"



(E) PAVERS PER A04-121651
FOR REFERENCE ONLY

(E) DETECTABLE WARNING PAVERS 4

1 1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEWART
NO. C34608
REN.12/27
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE DETAILS - HARDSCAPE

A-1.10

10/9/2026 9:00:56 AM

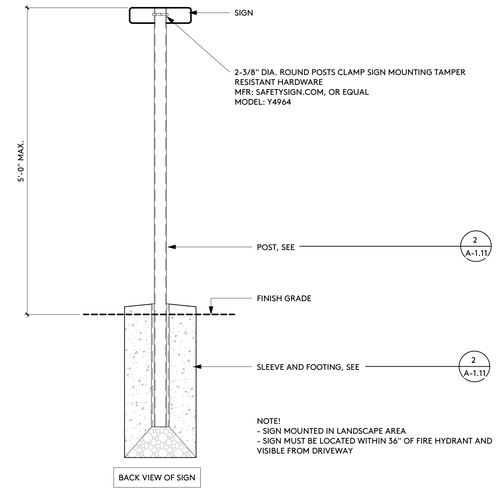
REV. # DATE

REAR ELEVATION

SITE SIGNAGE - SAFE DISPERSAL AREA 16

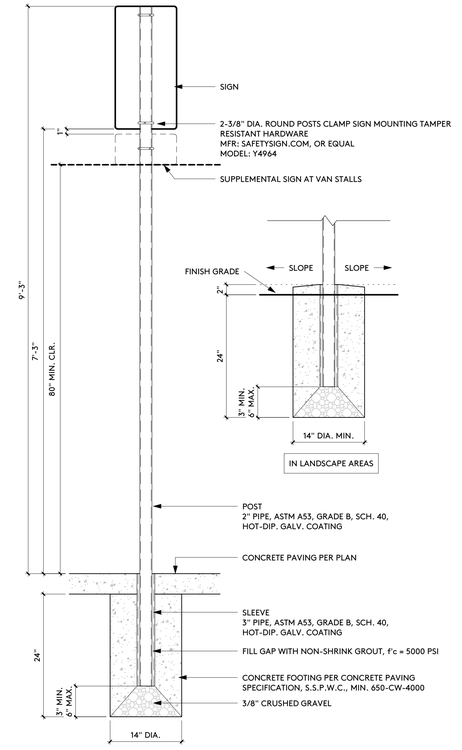
1 1/2" = 1'-0"

FRONT ELEVATION



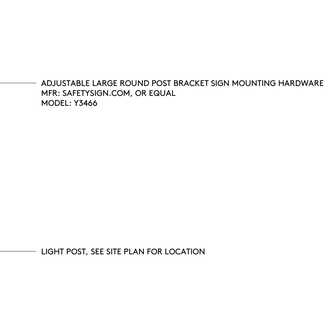
SITE SIGNAGE - MOUNTING POST 6

1" = 1'-0"

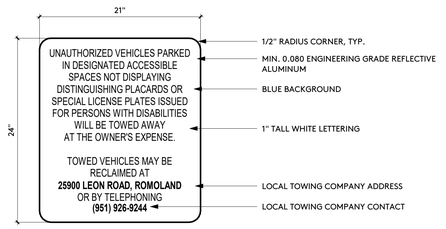


SITE SIGNAGE - MOUNTING POST 2

1" = 1'-0"



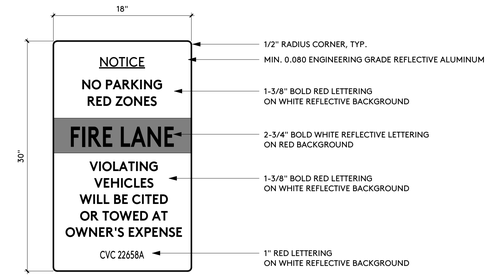
REAR ELEVATION



(E) SIGN PER A04-121651
FOR REFERENCE ONLY

(E) SITE SIGNAGE - TOW AWAY 11

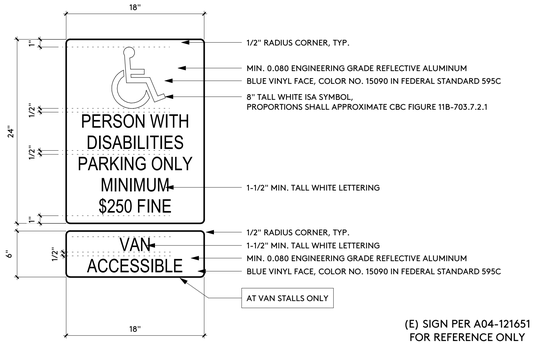
1 1/2" = 1'-0"



(E) SIGN PER A04-121651
FOR REFERENCE ONLY

(E) SITE SIGNAGE - FIRE LANE ENTRY 7

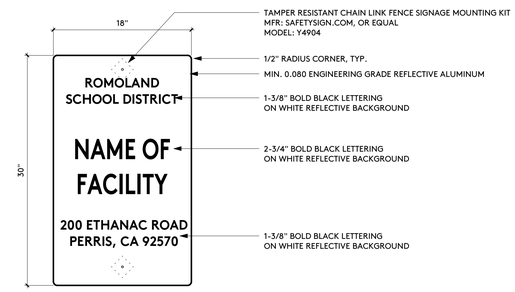
1 1/2" = 1'-0"



(E) SIGN PER A04-121651
FOR REFERENCE ONLY

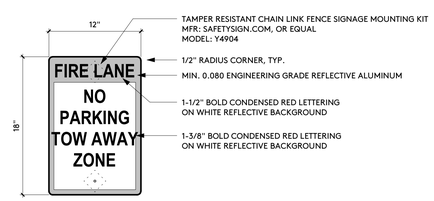
(E) SITE SIGNAGE - ACCESSIBLE PARKING 3

1 1/2" = 1'-0"



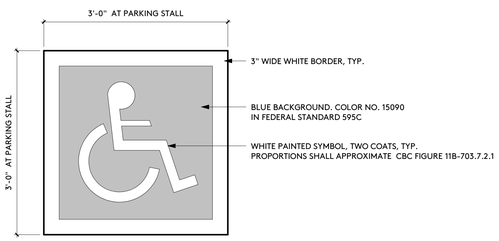
SITE SIGNAGE - BUILDING ADDRESS 8

1 1/2" = 1'-0"



SITE SIGNAGE - FIRE LANE GATES 4

1 1/2" = 1'-0"



(E) SIGN PER A04-121651
FOR REFERENCE ONLY

(E) SITE SIGNAGE - INT'L SYMBOL OF ACCESSIBILITY 12

1" = 1'-0"

IDENTIFICATION STAMP
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DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STENR CA
NO. C34608
REN.12/27
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE DETAILS - SIGNAGE

A-1.11

10/9/2026 9:00:57 AM

REV. # DATE

1. ALL RAIL FABRICATIONS SHALL BE: A.E.S.S. LEVEL 3

3. RAIL ASSEMBLY SHALL BE FULLY WELDED, WELDS ALL AROUND WITH FILLET WELDS, SEE WELDING NOTES (9 / A-1.5)

4. RAIL METAL FABRICATIONS SHALL BE FINISHED AS NOTED ON DETAILS:
   a. FOR SHOP-PRIMER SPECIFICATION, SEE SECTION 05 50 00 METAL FABRICATIONS
   b. FOR FIELD PAINT SPECIFICATION (TOP COATS), SEE SECTION 09 91 13 EXTERIOR PAINTING
   c. FOR POWDER COATING SPECIFICATION, SEE SECTION 05 05 13 SHOP-APPLIED METAL FINISHES
   d. FOR HOT-DIP GALVANIZED SPECIFICATION, SEE SECTION 05 50 00 METAL FABRICATIONS

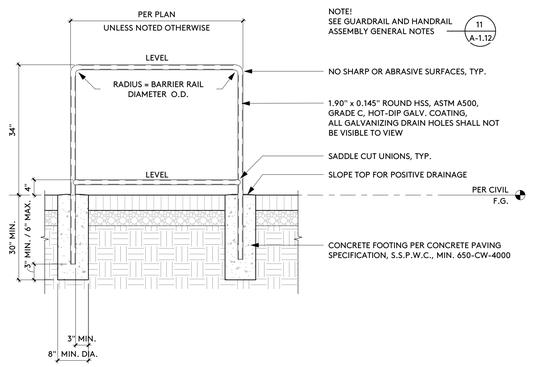
5. PRODUCT DATA AND SHOP DRAWINGS ARE REQUIRED FOR ALL RAIL METAL FABRICATIONS. APPROVED SUBMITTALS ARE REQUIRED PRIOR TO FABRICATION. SHOP DRAWINGS SHALL NOT BE THE REPRODUCTION OF CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS OF SHOP DRAWINGS. SHOP DRAWINGS SHALL BE NEWLY PREPARED CONTENT AND PROJECT SPECIFIC. SHOP DRAWINGS SHALL BE DRAWN TO SCALE, UTILIZING INDUSTRY STANDARD CAD SOFTWARE (i.e. AUTOCAD, REVIT, ETC.).

6. SHOP DRAWINGS SHALL INCLUDE: 1) SITE PLAN, 2) EACH RAIL DRAWING IN PLAN VIEW AND ELEVATION VIEW IDENTIFYING ADJACENT FINISH SURFACE GRADES AND SURROUNDING CONSTRUCTION (I.E. SITE WALLS, BUILDING WALLS, EXISTING FENCES, EXISTING GATES, SUBGRADE UTILITIES TRAVERSING AREA, ETC.), 3) TOTAL WEIGHT (INCLUDING ALL ACCESSORIES) FOR EACH RAIL, 4) WELDING PROCEDURES, 5) MATERIAL DESIGNATIONS AND FINISHES, 6) FOOTING SIZES.

7. PIPES SIZES ARE NOMINAL, UNLESS NOTED OTHERWISE.

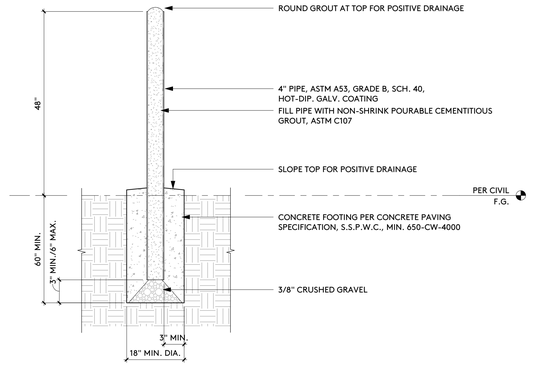
FABRICATION AND SHOP DRAWING REQUIREMENTS 11

1/8" = 1'-0"



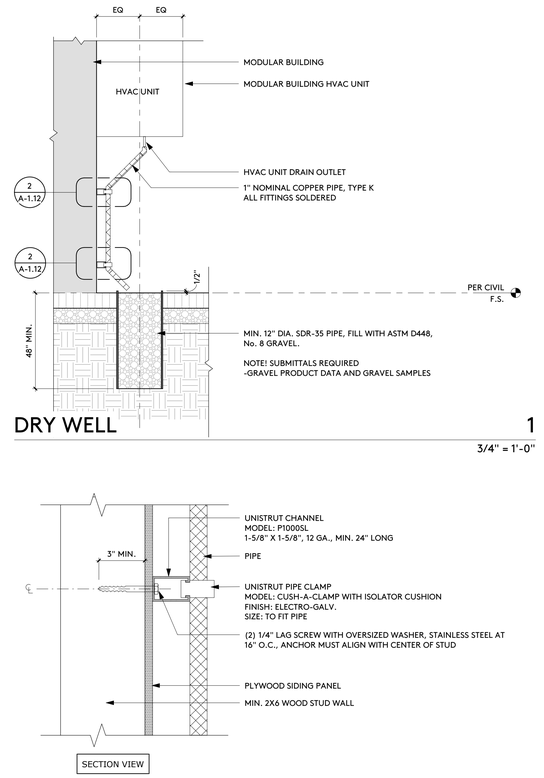
POST-MOUNT RAIL 12

3/4" = 1'-0"



GUARD POST 8

3/4" = 1'-0"

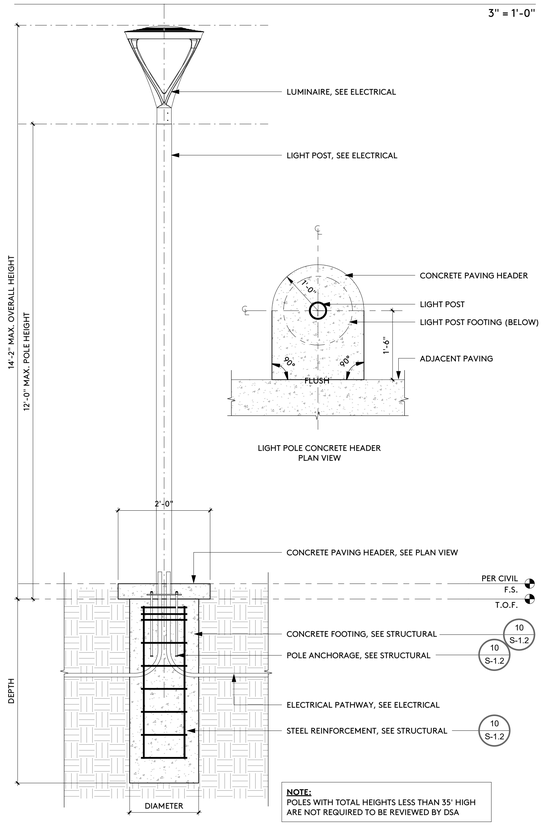


DRY WELL 1

3/4" = 1'-0"

DRAIN PIPE ANCHORAGE 2

3" = 1'-0"



POST TOP LUMINAIRE 4

3/4" = 1'-0"

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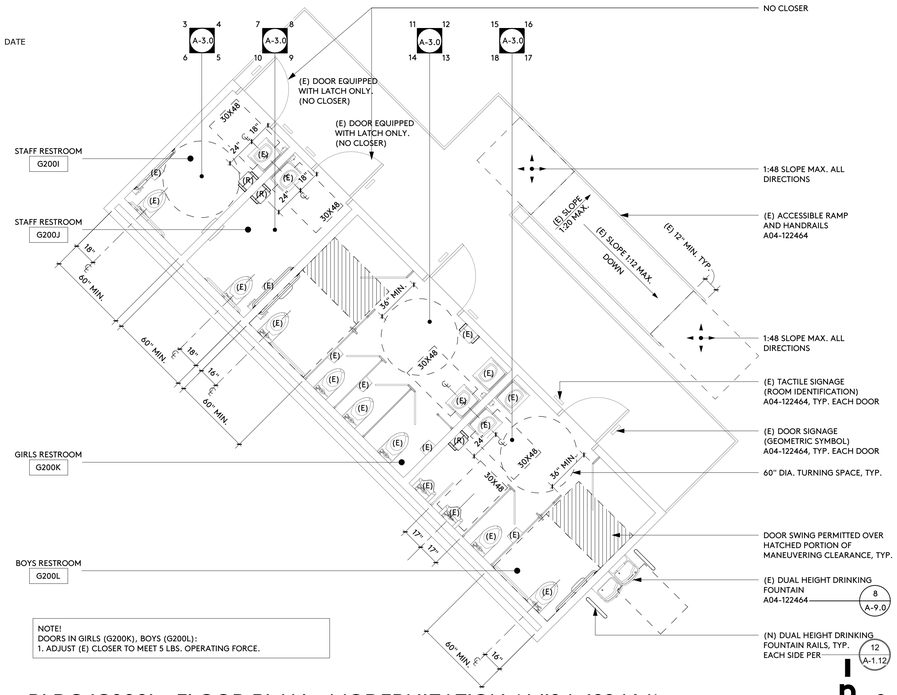
GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SITE DETAILS - MISCELLANEOUS

A-1.12

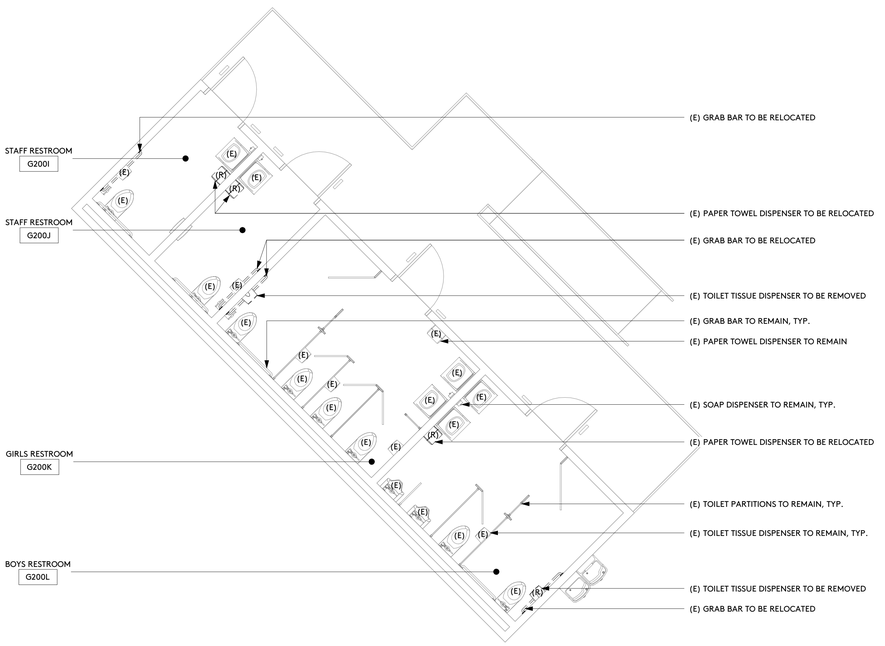
10/22/2026 9:37:18 AM

REV. # DATE



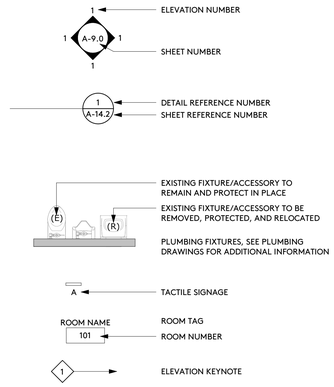
BLDG 'G200' - FLOOR PLAN - MODERNIZATION (A#04-122464)

1/4" = 1'-0"



BLDG 'G200' - FLOOR PLAN - DEMOLITION

1/4" = 1'-0"



SYMBOLS

1. (E) SOAP DISPENSER TO REMAIN
2. (E) TOILET SEAT COVER DISPENSERS TO REMAIN
3. (E) TOILET TISSUE DISPENSER TO REMAIN
4. (E) TOILET PARTITIONS TO REMAIN
5. (E) PAPER TOWEL DISPENSER TO REMAIN
6. (E) MIRROR TO REMAIN
7. (E) GRAB BAR TO REMAIN
8. (N) TOILET TISSUE DISPENSER
9. RELOCATED PAPER TOWEL DISPENSER
10. RELOCATED GRAB BAR
11. (N) WALL MOUNTED WASTE RECEPTACLE

STAFF RESTROOM - MODERNIZATION (ADULT)

G200B

1/4" = 1'-0"

STAFF RESTROOM - MODERNIZATION (ADULT)

G200A

1/4" = 1'-0"

GIRLS RESTROOM - MODERNIZATION (AGES 9-12)

G200C

1/4" = 1'-0"

BOYS RESTROOM - MODERNIZATION (AGES 9-12)

G200D

1/4" = 1'-0"

KEYNOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STENFORD
NO. C34608
REN.12/27
STATE OF CALIFORNIA

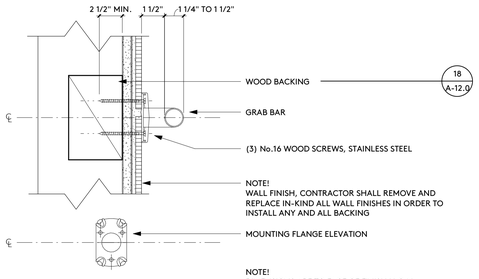
GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

FLOOR PLAN, INTERIOR ELEVATIONS

A-3.0

10/9/2026 1:37:19 PM

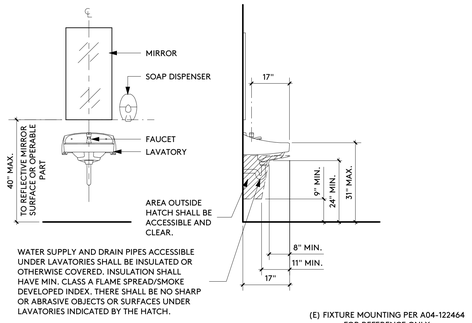
REV. # DATE



ANCHORAGE - GRAB BAR 9

3" = 1'-0"

NOTE!
1. DIMENSIONS ARE TO FACE OF FINISH U.O.N.
2. FOR FIXTURES...SEE PLUMBING DRAWINGS
3. FOR GRAB BARS AND DISPENSERS...SEE TOILET, BATH, AND LAUNDRY ACCESSORIES SPECIFICATION

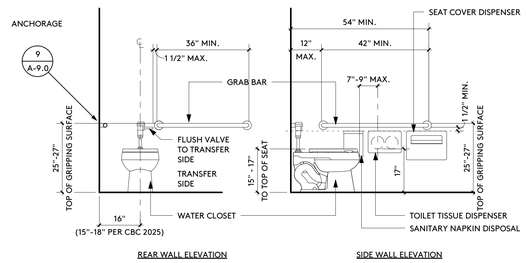


(E) FIXTURE MOUNTING PER A04-122464
FOR REFERENCE ONLY

(E) ACCESSIBLE LAVATORY (AGE 9-12) 10

1/2" = 1'-0"

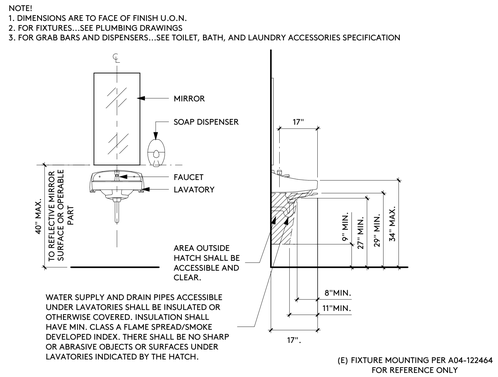
NOTE!
1. DIMENSIONS ARE TO FACE OF FINISH U.O.N.
2. FOR FIXTURES...SEE PLUMBING DRAWINGS
3. FOR GRAB BARS AND DISPENSERS...SEE TOILET, BATH, AND LAUNDRY ACCESSORIES SPECIFICATION



ACCESSIBLE WATER CLOSET (AGE 9-12) 11

1/2" = 1'-0"

NOTE!
1. DIMENSIONS ARE TO FACE OF FINISH U.O.N.
2. FOR FIXTURES...SEE PLUMBING DRAWINGS
3. FOR GRAB BARS AND DISPENSERS...SEE TOILET, BATH, AND LAUNDRY ACCESSORIES SPECIFICATION

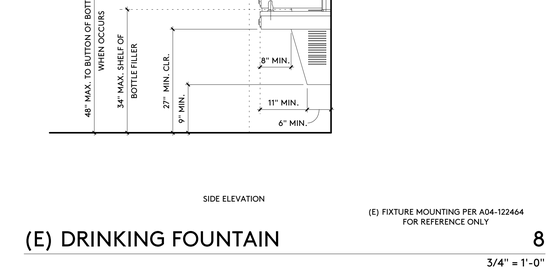


(E) FIXTURE MOUNTING PER A04-122464
FOR REFERENCE ONLY

(E) ACCESSIBLE LAVATORY (ADULT) 5

1/2" = 1'-0"

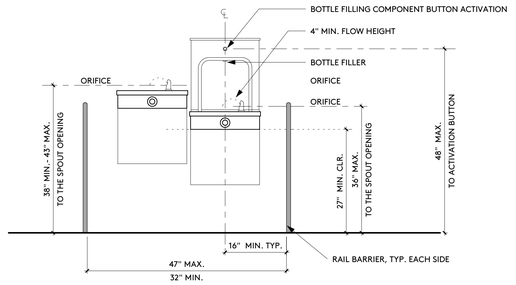
NOTE!
1. DIMENSIONS ARE TO FACE OF FINISH U.O.N.
2. FOR FIXTURES...SEE PLUMBING DRAWINGS
3. FOR GRAB BARS AND DISPENSERS...SEE TOILET, BATH, AND LAUNDRY ACCESSORIES SPECIFICATION



ACCESSIBLE WATER CLOSET (ADULT) 6

1/2" = 1'-0"

NOTE!
WATER FLOW SHALL COMPLY WITH **CBC 11B-602.6:** THE SPOUT SHALL PROVIDE A FLOW OF WATER 4" HIGH MIN. AND SHALL BE LOCATED 5" HIGH MAX. FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3" OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAX. WHERE SPOUTS ARE LOCATED BETWEEN 3" AND 5" MAX. FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAX.



FRONT ELEVATION

SIDE ELEVATION

(E) FIXTURE MOUNTING PER A04-122464
FOR REFERENCE ONLY

(E) DRINKING FOUNTAIN 8

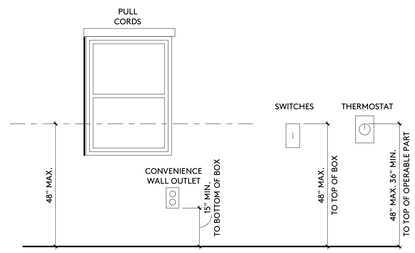
3/4" = 1'-0"

		ADULT	AGES 3 - 4	AGES 5 - 8	AGES 9 - 12	2025 CBC REF.
WATER CLOSET	TOILET OFFSET TO CENTERLINE (WHEELCHAIR ACCESSIBLE)	17"-18"	12"	12"-15"	15"-18"	S 11B-604.2 S 11B-604.9
	TOILET OFFSET TO CENTERLINE (AMBULATORY ACCESSIBLE)	17"-19"	17"-19"	17"-19"	17"-19"	S 11B-604.2
	TOILET SEAT HEIGHT	17"-19"	11"-12"	12"-15"	15"-17"	S 11B-604.4 S 11B-604.9
	TOILET FLUSH CONTROLS HEIGHT	44" MAX.	36" MAX.	36" MAX.	36" MAX.	S 11B-604.6 S 11B-604.9.5
	TOP OF GRAB BAR GRIPPING SURFACE	33"-36"	18"-20"	20"-25"	25"-27"	S 11B-609.4 S 11B-604.9
	T.P. DISPENSER OUTLET (VERTICAL DISTANCE TO CENTER-LINE OF ROLL OF DISPENSER)	19" MIN.	14"	14"-17"	17"-19"	F 11B-604.7.1 S 11B-604.9
	T.P. DISPENSER OUTLET (HORIZONTAL DISTANCE TO CENTERLINE OF ROLL OF DISPENSER)	7"-9"	7"-9"	7"-9"	7"-9"	F 11B-604.7.1
	SANITARY NAPKIN DISPOSAL (VERTICAL DISTANCE TO OPENING)	19" MIN. TO OUTLET, UNIT BETWEEN T.P. DISP. AND BACK WALL.	-	-	19" MIN. TO OUTLET, UNIT BETWEEN T.P. DISP. AND BACK WALL.	F 11B-604.7.2
	TOE CLEARANCE HEIGHT AT TOILET PARTITION	9" MIN.	12" MIN.	12" MIN.	12" MIN.	S 11B-604.8.1.4
LAVATORY	LAV/SINK RIM HEIGHT	34" MAX.	WITHIN REACH RANGES PER 11B-308	AGE 6-8: 31" MIN. AGE 5: WITHIN REACH RANGES PER 11B-308	31" MAX.	S 11B-606.2 S 11B-606.3
	LAV/SINK KNEE CLEARANCE HEIGHT	27" MIN. (29" MIN. AT APRON FOR LAVATORY)	PARALLEL APPROACH PERMITTED	AGE 6-8: 24" MIN. AGE 5: PARALLEL APPROACH PERMITTED	24" MIN.	S 11B-606.2 F 11B-306.3
URINAL	URINAL PROJECTION (HORIZONTAL DISTANCE)	13 1/2" MIN.	OMIT	OMIT	13 1/2" MIN.	S 11B-605.2
	URINAL HEIGHT	17" MAX.	17" MAX.	17" MAX.	17" MAX.	S 11B-605.2
	URINAL FLUSH CONTROLS HEIGHT	44" MAX.	36" MAX.	40" MAX.	44" MAX.	S 11B-605.4 T 11B-308.4
DRINKING FOUNTAIN	HIGH D.F. SPOUT HEIGHT	38"-43"	38"-43"	38"-43"	38"-43"	S 11B-602.7
	LOW D.F. APPROACH	FORWARD APPROACH	PARALLEL APPROACH IF SPOUT IS:	PARALLEL APPROACH IF SPOUT IS:	PARALLEL APPROACH IF SPOUT IS:	S 11B-602.2 EXCEPTION
	LOW D.F. SPOUT HEIGHT AND SPOUT LOCATION FROM FRONT EDGE OF UNITE INCLUDING BUMPERS	36" MAX. & 5" MAX	30" MAX. & 3 1/2" MAX.	30" MAX. & 3 1/2" MAX.	30" MAX. & 3 1/2" MAX.	S 11B-602.4 S 11B-602.5
	D.F. OPERABLE PARTS (FROM FRONT EDGE OF UNIT)	6" MAX.	6" MAX.	6" MAX.	6" MAX.	S 11B-602.3
	CANTILEVER D.F. PROJECTION	18"-19"	18"-19"	18"-19"	18"-19"	S 11B-602.8
ACCESSORIES	SHELF HEIGHT	40"-48"	36" MAX.	40" MAX.	44" MAX.	S 11B-604.8.3 S 11B-308.4
	COAT HOOK HEIGHT	15"-48"	20"-36"	18"-40"	16"-44"	S 11B-603.8 T 11B-308.4
	RESTROOM ACCESSORY REACH HEIGHT (BABY DIAPER CHANGING STATIONS EXCLUDED)	40" MAX.	36" MAX.	40" MAX.	40" MAX.	S 11B-603.5 S 11B-308.4
MIRROR	MIRROR HEIGHT (TO BOTTOM EDGE OF REFLECTED SURFACE) IN TOILET AND BATHING ROOMS	40" MAX. (ABOVE LAV OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV OR COUNTERTOP)	40" MAX. (ABOVE LAV OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV OR COUNTERTOP)	40" MAX. (ABOVE LAV OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV OR COUNTERTOP)	40" MAX. (ABOVE LAV OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV OR COUNTERTOP)	S 11B-603.3
	MIRROR HEIGHT (TO BOTTOM EDGE OF REFLECTED SURFACE) IN DRESSING, FITTING, & LOCKER ROOMS	20" MAX. TO BOTTOM 54" MIN. TO TOP 18" MIN. WIDE	20" MAX. TO BOTTOM 54" MIN. TO TOP 18" MIN. WIDE	20" MAX. TO BOTTOM 54" MIN. TO TOP 18" MIN. WIDE	20" MAX. TO BOTTOM 54" MIN. TO TOP 18" MIN. WIDE	S 11B-803.6

NOTE:
1.) ALL HEIGHT DIMENSIONS ARE A.F.F. (OR A.F.G. FOR EXTERIOR). ALL HORIZONTAL DIMENSIONS ARE TO FACE OF FINISH
2.) STANDARD OR CODE ALTERNATE AGE RANGES MUST BE USED
3.) COMBINING AGE RANGE DIMENSIONS WITHIN THE SAME ROOM IS NOT ACCEPTABLE

FIXTURE MOUNTING DIMENSIONS 2

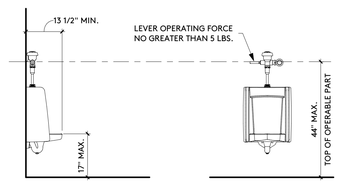
12" = 1'-0"



CONTROLS/SWITCHES/OUTLETS 3

1/2" = 1'-0"

NOTE!
1. DIMENSIONS ARE TO FACE OF FINISH U.O.N.
2. FOR FIXTURES...SEE PLUMBING DRAWINGS
3. FOR GRAB BARS AND DISPENSERS...SEE TOILET, BATH, AND LAUNDRY ACCESSORIES SPECIFICATION



(E) FIXTURE MOUNTING PER A04-122464
FOR REFERENCE ONLY

ACCESSIBLE URINAL 4

1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STENR CA
NO. C34608
REN.12/27
STATE OF CALIFORNIA

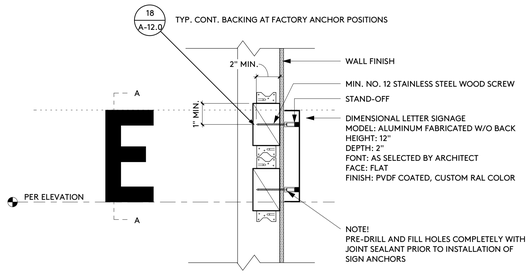
GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

INTERIOR ELEVATION DETAILS

A-9.0

10/9/2026 8:57:20 AM

REV. # DATE



BUILDING SIGNAGE 16

1 1/2" = 1'-0"

1. ALL DIMENSIONAL LETTER SIGNAGE SHALL BE MANUFACTURED BY:

   GEMINI USA, OR EQUAL
   103 MENSING WAY, CANNON FALLS, MN 55009

2. ALL ILLUMINATED LETTER SIGNAGE SHALL BE UL-LISTED, PRE-WIRED, SERVICEABLE LED MODULES AND RATED FOR WET OUTDOOR CONDITIONS.

3. DIMENSIONAL LETTER SIGNAGE SIZES ARE NOMINAL, UNLESS NOTED OTHERWISE.

4. DIMENSIONAL LETTER SIGNAGE HEIGHT, DEPTH, FONT, FACE AND FINISH AS INDICATED.

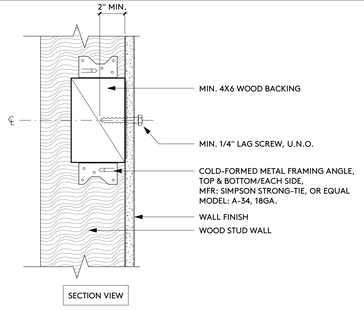
5. PRODUCT DATA AND SHOP DRAWINGS ARE REQUIRED FOR ALL DIMENSIONAL LETTER SIGNAGE. APPROVED SUBMITTALS ARE REQUIRED PRIOR TO FABRICATION. SHOP DRAWINGS SHALL NOT BE THE REPRODUCTION OF CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS OF SHOP DRAWINGS. SHOP DRAWINGS SHALL BE NEWLY PREPARED CONTENT AND PROJECT SPECIFIC. SHOP DRAWINGS SHALL BE DRAWN TO SCALE, UTILIZING INDUSTRY STANDARD CAD SOFTWARE (i.e. AUTOCAD, REVIT, ETC.). WIRING DIAGRAMS ARE REQUIRED FOR ALL ILLUMINATED SIGNAGE.

6. SHOP DRAWINGS SHALL INCLUDE: 1) REFERENCE BUILDING PLAN, 2) EACH LETTER/GROUP OF LETTERS SHOWN IN PLAN VIEW AND ELEVATION VIEW IDENTIFYING ADJACENT FINISH SURFACE AND SURROUNDING CONSTRUCTION, 3) ANCHORAGE TO SUBSTRATE, 4) MATERIAL DESIGNATIONS AND FINISHES, 6)LETTER SIZES, CHARACTER SPACING, FONT.

7. SELECTION AND VERIFICATION SAMPLES ARE REQUIRED FOR ALL SPECIFIED FINISHES.

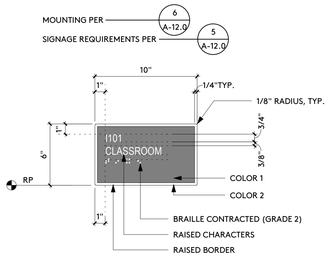
DIMENSIONAL LETTER FABRICATION AND SUBMITTAL REQUIREMENTS 17

1/8" = 1'-0"



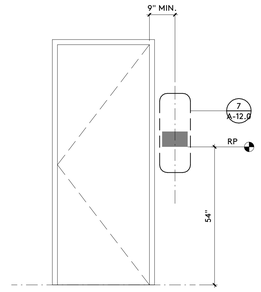
ANCHORAGE - TYP. BACKING 18

3" = 1'-0"



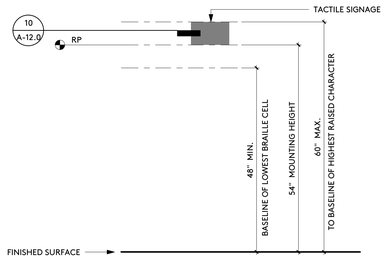
TYPICAL ROOM 11

1" = 0'-2"



TYPICAL DOOR 6

1/2" = 1'-0"



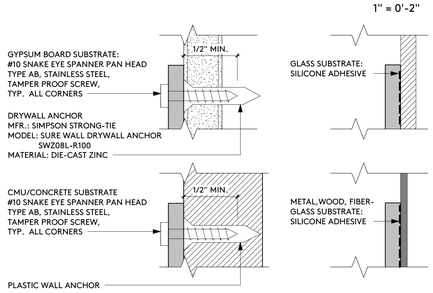
MOUNTING HEIGHTS 7

1" = 0'-2"

A NOT USED
B NOT USED
C NOT USED
D NOT USED
E NOT USED
F NOT USED
G NOT USED
H NOT USED
I NOT USED
J NOT USED
K ROOM DESIGNATION WALL SIGN — 11 / A-12.0
L NOT USED
M NOT USED
N NOT USED
O NOT USED
P NOT USED
Q NOT USED
R. NOT USED
S. NOT USED

TACTILE SIGNAGE LEGEND 9

1" = 0'-2"



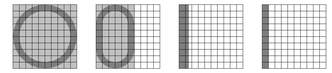
SIGN ANCHORAGE 10

12" = 1'-0"

SIGNAGE NOTES:

1. ATTACH TACTILE SIGNAGE PER DETAIL — 10 / A-12.0
2. NOT USED
3. **RAISED CHARACTERS** SHALL COMPLY WITH **CBC SECTION 11B-703.2:**
   -DEPTH: IT SHALL BE 1/32 INCH (0.8MM) MINIMUM ABOVE THEIR BACKGROUND AND SHALL BE SANS SERIF UPPERCASE AND BE DUPLICATED IN BRAILLE.
   -HEIGHT: IT SHALL BE 5/8 INCH (15.9MM) MINIMUM AND 2 INCHES (51MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". CBC SECTION 11B-703.2.5
   -FINISH AND CONTRAST: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTER SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. **CBC SECTION 11B-703.5.1.**
4. **PROPORTIONS:** IT SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER. **CBC SECTIONS 11B-703.4 AND 11B-703.6**
5. **CHARACTER SPACING:** SPACING BETWEEN INDIVIDUAL TACTILE CHARACTERS SHALL COMPLY WITH **CBC SECTION 11B-703.2.7.**
6. **LINE SPACING:** SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL COMPLY WITH **CBC SECTION 11B-703.2.8.**
7. **BRAILLE:** IT SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH **CBC SECTIONS 1B-703.3** AND **11B-703.4.** BRAILLE DOTS SHALL HAVE A DOMED AND ROUNDED SHAPE AND SHALL COMPLY WITH **CBC TABLE AND FIGURE 11B-703.3.1.**
8. **MOUNTING HEIGHT:** A TACTILE SIGN SHALL BE LOCATED 48" MINIMUM TO THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAXIMUM TO THE BASELINE OF THE HIGHEST LINE OF THE RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE.
9. **MOUNTING LOCATION:** A TACTILE SIGN SHALL BE LOCATED ON THE APPROACH SIDE, AS ONE ENTERS OR EXITS ROOMS OS SPACE, AND BE REACHED WITHIN 0" OF THE REQUIRED CLEAR FLOOR SPACE PER **CBC SECTION AND FIGURE 11B-703.4.2** AS FOLLOWS:
   - A CLEAR FLOOR SPACE OF 18" X 18" MINIMUM, CENTERED ON THE TACTILE CHARACTERS, SHALL BE PROVIDED BEYOND THE ARC OF ANY DOOR SWINGS BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.
   - ON THE WALL AT THE LATCH SIDE OF A SINGLE DOOR.
   - ON THE INACTIVE LEAF OF A DOUBLE DOOR WITH ONE ACTIVE LEAF.
   - ON THE WALL AT THE RIGHT SIDE OF A DOUBLE DOOR WITH TWO ACTIVE LEAFS.
   - ON THE NEAREST ADJACENT WALL WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR NO SPACE AT THE RIGHT SIDE OF A DOUBLE DOOR WITH TWO ACTIVE LEAFS.
10. **VISUAL CHARACTERS** SHALL COMPLY WITH **CBC SECTION 11B-703.5**
    -VISUAL CHARACTERS SHALL BE 40" MINIMUM FINISH FLOOR OR GROUND.
    -CHARACTER HEIGHT SHALL BE DETERMINED BASED UPON HEIGHT ABOVE GROUND AND HORIZONTAL VIEWING DISTANCE PER CBC TABLE 11B-705.5.5.
    -PROPORTIONS FOR VISUAL CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". CBC SECTION 11B-703.5.4.
    -STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10% MINIMUM AND 20% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC SECTION 11B-703.5.7.
    -LINE SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135% MIN. AND 170% MAX. OF THE CHARACTER HEIGHT PER CBC SECTION 11B-703.5.9.
    -CHARACTER SPACING BETWEEN INDIVIDUAL ADJACENT CHARACTERS SHALL BE 10% MIN. AND 35% MAX. OF CHARACTER HEIGHT PER **CBC SECTION 11B-703.5.8.**
11. **PICTOGRAMS** SHALL COMPLY WITH **CBC SECTION 11B-703.6.**
12. **SYMBOL OF ACCESSIBILITY** SHALL COMPLY WITH **CBC SECTION 11B-703.7.**
    - THE SYMBOL SHALL CONSIST OF A LIGHT FIGURE ON A DARK BACKGROUND OR A DARK FIGURE ON A LIGHT BACKGROUND. **CBC SECTION 11B-703.7.2.1 EXCEPTION 1.**

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS



13. **11B-703.3 BRAILLE.** BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH **CBC SECTIONS 11B-703.3 AND 11B-703.4.**
14. **11B-703.3.1 DIMENSIONS AND CAPITALIZATION.** BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITITALS, AND ACRONYMS.

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 (1.5 mm) TO 0.063 (1.6 mm)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL[1]	0.100 (2.5 mm)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS[1]	0.300 (7.6 mm)
DOT HEIGHT	0.025 (0.6 mm) TO 0.037 (0.9 mm)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW[1]	0.395 (10 mm) TO 0.400 (10.2 mm)

1. MEASURED CENTER TO CENTER

TABLE 11B-703.3.1
BRAILLE DIMENSIONS

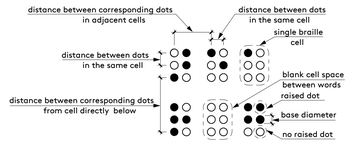


FIGURE 11B-703.3.1
BRAILLE MEASUREMENT

15. **11B-703.3.2 POSITION.** BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH (9.5 mm) MINIMUM AND 1/2 INCH (12.7 mm) MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH (9.5 mm) MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
16. **MATERIAL NOTES:**

SIZE:	AS INDICATED
FONT:	HELVETICA (OR SIMILAR, SANS SERIF STYLE, VERIFY WITH ARCHITECT)
SHEEN:	MATTE
GRAPHICS:	RAISED 1/32" PRINTED GRAPHICS ON CONTRASTING BACKGROUND
TEXT COLOR:	PER ARCHITECT
BACKGROUND COLOR:	PER ARCHITECT
BORDER COLOR:	PER ARCHITECT
MATERIAL THICKNESS:	1/4"

GENERAL NOTES 5

1" = 0'-2"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STENR CA
NO. C34608
REN.12/27
STATE OF CALIFORNIA

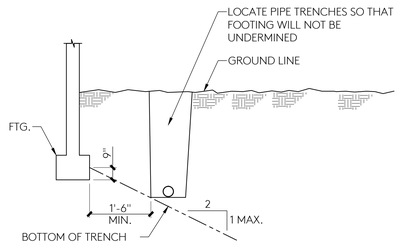
GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SIGNAGE DETAILS

A-12.0

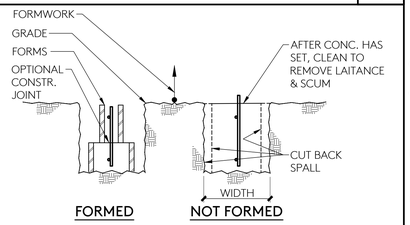
10/9/2026 8:57:21 AM

REV. # DATE



CONTRACTOR TO BE RESPONSIBLE FOR MAINTAINING THE SIDES OF THE TRENCH FROM CAVING IN UNTIL ALL BACKFILL IS COMPLETED.
BACKFILL AS PER SPECIFICATIONS.

TYP. TRENCH EXCAVATION | 1



1. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE STRUCTURAL ENGINEER SUBJECT TO THE APPROVAL OF D.S.A. THE MINIMUM FORM WORK SHOWN ON DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACEMENT OF CONCRETE.
2. WHEN SIDES OF FOOTING PAD ARE FORMED, PAD AND STEM MAY BE POURED MONOLITHICALLY.
3. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FOOTING AND WALL ARE FULLY FORMED.
4. STAKES NOT PERMITTED WITHIN FOOTING SECTION.
5. EXCAVATION MUST BE KEPT CLEAN AND FREE OF DEBRIS.

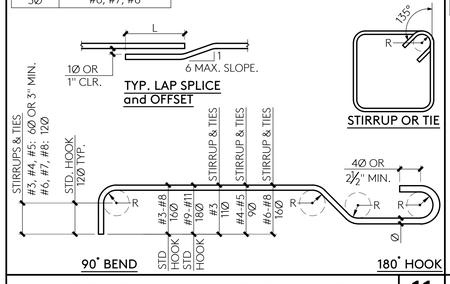
TYP. FORMED & UNFORMED FOOTING | 6

DSA2-008

R	BAR SIZE
STANDARD REBAR	
3Ø	#3, #4, #5
3Ø	#6, #7, #8
4Ø	#9, #10, #11
STIRRUP OR TIE	
2Ø	#3, #4, #5
3Ø	#6, #7, #8

"L" = LAP SPLICE LENGTH IN CONCRETE/MASONRY: CONCRETE PER 12 - MASONRY PER 17 -

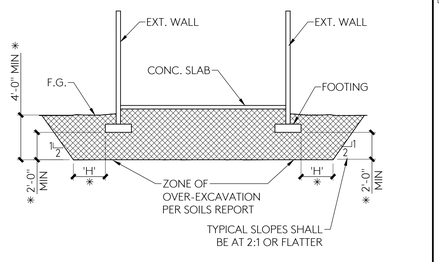
Ø = DIAMETER OF BAR.
R = RADIUS OF BEND MEASURED ON THE INSIDE OF BAR.



TYP. REBAR HOOKS, BENDS, SPLICES | 11

FOR ADDITIONAL NOTES REFER TO "GRADING REQUIREMENTS" AND "GENERAL GRADING REQUIREMENTS" IN SOILS REPORT:

✳ UPPER 4 FEET OF SOILS OR 2 FEET BELOW BOTTOM OF FOOTING, WHICHEVER IS DEEPER. HORIZONTAL DISTANCE, 'H', SHALL EXTEND A MINIMUM DISTANCE EQUAL TO 5 FEET BEYOND OUTSIDE EDGES OF EXTERIOR FOOTINGS (2:1 SLOPE FROM BOTTOM CORNER OF EXISTING FOOTINGS). DEPTH OF EXCAVATION TO BE CONFIRMED BY GEOTECHNICAL ENGINEER'S REPRESENTATIVE DURING CONSTRUCTION.



TYPICAL SOIL OVEREXCAVATION | 16

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE GRADE 60 EXCEPT FOR #3 AND SMALLER WHICH MAY BE GRADE 40 IN ACCORDANCE WITH A.S.T.M. A 615 UNLESS OTHERWISE NOTED.
2. BARS NOTED AS "CONTINUOUS", TYPICAL WALL REINFORCING, AND VERTICAL COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE EQUAL TO STANDARD LAP SPLICE. STANDARD LAP SHALL BE PER 11 -
3. REINF. SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. ALL VERTICAL WALL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN SPLICE LOCATIONS SHOWN IN THE DETAILS. ALL VERTICAL WALL REINF. SHALL HAVE NO SPLICES EXCEPT AT THE FOUNDATIONS, UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
4. SPLICES IN ADJACENT HORIZ. WALL REINF. BARS SHALL BE STAGGERED 4'-0" MINIMUM UNLESS OTHERWISE NOTED.
5. PROVIDE DOWELS IN FOOTINGS AND/OR GRADE BEAMS THE SAME SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING DOWELS SHALL HAVE A MINIMUM PROJECTION EQUAL TO STANDARD LAP SPLICES UNLESS OTHERWISE NOTED.
6. ALL REINFORCING, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY.
7. PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE:

BELOW GRADE (UNFORMED)	3"	CLEAR
BELOW GRADE (FORMED)	2"	CLEAR
WALLS (NOT EXPOSED TO WEATHER)	¾"	CLEAR
WALLS (EXPOSED TO WEATHER)	1½"	CLEAR
COLUMNS	1½"	CLEAR
BEAMS AND GIRDERS	1½"	CLEAR
STRUCTURAL SLAB (ABOVE GRADE)	¾"	CLEAR
STRUCTURAL SLAB (EXPOSED TO WEATHER)	1½"	CLEAR

8. #5 OR LARGER REINF. BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF STRUCTURAL ENGINEER.
9. TESTS OF REINFORCING BARS ARE NOT REQUIRED FOR THIS PROJECT PER CBC SECTION 1910A.2 FOR ONE-STORY BUILDINGS AND NON-BUILDING STRUCTURES, PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED TO THE INSPECTOR OF RECORD FOR EACH SHIPMENT OF SUCH REINFORCEMENT.
10. SUBMITTAL OF REBAR SHOP DRAWINGS IS NOT REQUIRED BY THE STRUCTURAL ENGINEER FOR THIS PROJECT. REBAR SHOP DRAWINGS WILL NOT BE REVIEWED BY THE STRUCTURAL ENGINEER.
11. REINFORCING STEEL BAR SIZES INDICATED ON THESE DRAWINGS ARE BASED UPON INCH-POUND BAR SIZE DESIGNATION. FOR SOFT METRIC BAR SIZES REFER TO THE CONVERSION CHART BELOW:

BAR SIZE CONVERSION CHART									
INCH-POUND DESIGNATION	#3	#4	#5	#6	#7	#8	#9	#10	#11
SOFT METRIC DESIGNATION	#10	#13	#16	#19	#22	#25	#29	#32	#36

f'c = 4000 PSI

	BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
TOP BARS	LAP	25	33	41	49	71	81	91	102	114
	Ld	19	25	31	37	54	62	70	79	87
OTHER BARS	LAP	19	25	31	37	54	62	70	79	87
	Ld	15	19	24	29	42	48	54	61	67

NOTES:
1. ALL LENGTHS ARE IN INCHES.
2. ALL VALUES ARE FOR UNCOATED GRADE 60 REINFORCING IN NORMAL WEIGHT CONCRETE.
3. TABULATED VALUES ARE MINIMUM LENGTHS. PROVIDING LONGER LENGTHS IS GENERALLY ACCEPTABLE.
4. "Ld" = TENSION DEVELOPMENT LENGTH (INCHES)
   "LAP" = LAP SPLICE LENGTH (INCHES)
   "d_b" = DIAMETER OF REINFORCING BAR (INCHES)
5. LENGTHS ARE BASED UPON:
   a) BAR CLEAR SPACING ≥ $2d_b$, AND CONCRETE COVER ≥ d_b; OR
   b) BAR CLEAR SPACING ≥ d_b, CLEAR COVER ≥ d_b, AND STIRRUPS/TIES THROUGHOUT Ld
6. ALL LAP SPLICE LENGTHS ARE FOR CLASS B SPLICES = 1.3 Ld
7. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW.

TYP. LAP SPLICE & DEVELOPMENT LENGTHS FOR REINFORCING IN CONCRETE | 12

f'm = 2000 PSI

	BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
52 d_b	LAP	20	26	33	39	46	52	59	-	-
72 d_b	LAP	27	36	45	54	63	72	81	-	-
93 d_b	LAP	35	47	59	70	82	93	105	-	-

NOTES:
1. ALL LENGTHS ARE IN INCHES.
2. ALL VALUES ARE FOR UNCOATED GRADE 60 REINFORCING IN MASONRY.
3. TABULATED VALUES ARE MINIMUM LENGTHS. PROVIDING LONGER LENGTHS IS GENERALLY ACCEPTABLE.
4. "LAP" = LAP SPLICE LENGTH AND TENSION DEVELOPMENT LENGTH (INCHES)
   "d_b" = DIAMETER OF REINFORCING BAR (INCHES)
5. LENGTHS ARE BASED UPON:
   BAR SPACING ≥ 3", AND MASONRY COVER ≥ 1¼"
6. PROVIDE 52 d_b LAP SPLICE MINIMUM, U.N.O.
   PROVIDE 72 d_b LAP SPLICE MINIMUM WHERE NOTED.
   PROVIDE 93 d_b LAP SPLICE MINIMUM WHERE BAR SPACING IS LESS THAN 3" OR WHERE NOTED.

TYP. LAP SPLICE & DEVELOPMENT LENGTHS FOR REINFORCING IN MASONRY | 17

CONCRETE BLOCK MASONRY

1. MASONRY SHALL CONFORM TO:
   a. CBC CHAPTER 21A
   b. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, TMS 402-22.
   c. SPECIFICATION FOR MASONRY STRUCTURES, TMS 602-22.
   d. AND THE FOLLOWING REQUIREMENTS:

MASONRY MATERIAL PROPERTIES			
	MINIMUM COMPRESSIVE STRENGTH (PSI)	STANDARD	TYPE
MASONRY	f'm = 2000 PSI	CBC 2103A.1 OR ASTM C1314	STACK BOND PATTERN
BLOCK UNITS	2000	ASTM C90	GRADE N (TYPE 1) MEDIUM WEIGHT
MORTAR	1800	ASTM C270	S
GROUT	2000	ASTM C476	COARSE
CEMENT	-	ASTM C150	PORTLAND
LIME	-	ASTM C207	HYDRATED TYPE N OR S

2. SEE ARCHITECTURAL FOR TYPE, COLOR, TEXTURE, AND JOINT DETAILS FOR CONCRETE BLOCKS/MORTAR.
3. USE DOUBLE OPEN-END BLOCKS TO ACCOMPLISH GROUT CONTINUITY AND CONTINUOUS VERTICAL REINFORCEMENT.
4. MORTAR SHALL CONFORM TO THE "PROPORTIONS SPECIFICATIONS" OF CBC SECTIONS 2103A.2.1, ARTICLES 2.1.A AND 2.6A OF TMS 602, AND ASTM C270 TABLE 1.
5. BED JOINT THICKNESS SHALL BE ⅜" NOMINAL AND WITHIN THE TOLERANCES OF ARTICLE 3.3F OF TMS 602. ALL CROSS WEBS SHALL BE FULL BEDDED IN MORTAR.
6. SOLID GROUT ALL CELLS.
7. GROUT SHALL CONFORM TO ARTICLE 2.2 OF TMS 602.
8. GROUT SHALL CONTAIN MASONRY "GROUT-AID" ADDITIVE OR EQUAL TO REDUCE SHRINKAGE. (FLY ASH SHALL NOT BE USED) GROUT SLUMP SHALL BE DESIGNED TO 8" MAXIMUM OR LESS AS REQUIRED BY ADDITIVE MANUFACTURER.
9. MAXIMUM GROUT POUR HEIGHT SHALL NOT EXCEED 4'-0". AT 6-INCH NOMINAL WALLS, MAXIMUM GROUT POUR HEIGHT SHALL NOT EXCEED 1'-0", (CLEANOUT OPENINGS ARE NOT REQUIRED PER 2104A.1.3.5 FOR GROUT POUR HEIGHTS NOT EXCEEDING 4'-0").
10. MAXIMUM GROUT LIFT HEIGHT SHALL NOT EXCEED MAXIMUM GROUT POUR HEIGHT NOTED ABOVE.
11. VERTICAL CELLS SHALL HAVE VERTICAL ALIGNMENT THAT MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL. MINIMUM GROUT SPACE FOR VERTICAL CELLS SHALL BE 2½"x3" FOR 8-INCH NOMINAL AND LARGER MASONRY. MINIMUM GROUT SPACE FOR VERTICAL CELLS SHALL BE 1½"x3" FOR 6-INCH NOMINAL MASONRY. DOWELS FROM FOOTINGS SHALL BE SET TO ALIGN WITH CORE CONTAINING VERTICAL WALL REINFORCEMENT.
12. CONCRETE SURFACES SHALL BE CLEANED OF ALL LAITANCE PRIOR TO SETTING OF BLOCKS.
13. SPLICE VERTICAL REINFORCMENT ONLY WHERE INDICATED ON THE STRUCTURAL DRAWINGS.
14. GROUT POURS SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION.
15. REINFORCEMENT SHALL HAVE MINIMUM ½" GROUT CLEARANCE TO SURFACE OF MASONRY UNITS. REINFORCEMENT SHALL HAVE MINIMUM 1-BAR DIAMETER GROUT CLEARANCE TO SURFACE OF MASONRY BLOCK UNITS.
16. PIPES, CONDUITS, AND SLEEVES SHALL NOT BE USED IN MASONRY UNLESS SPECIFICALLY DETAILED. PIPES CONTAINING LIQUID, GAS, OR VAPORS SHALL NOT BE EMBEDDED IN MASONRY.

MASONRY TESTING AND INSPECTION REQUIREMENTS [1]

TEST/ INSPECTION	TYPE	REQUIRED (YES/NO) [2]	FREQUENCY	STANDARD
INSPECTION	SPECIAL INSPECTION	NO	-	-
	INSPECTION [4]	YES	CONTINUOUS	DSA IR 21-1
	BATCH PLANT	NO [5]	-	CBC 1705A.3.3.2
PRISM TEST METHOD [3]	PRISM TESTS	YES	CONTINUOUS	C 1314
UNIT STRENGTH METHOD [3]	BLOCK UNITS	YES / NO [6]		C 140
	MORTAR	NO	-	CBC 2105A.3
	GROUT	NO	-	CBC 2105A.3
	CORE	NO	-	CBC 2105A.4 EXCEPTION 1
TEST	REBAR	NO [7]	-	CBC 1910A.2

NOTES:
1. REFER TO FORM DSA-103 FOR ADDITIONAL NOTES AND REQUIREMENTS.
2. "NO" MEANS TEST/INSPECTION IS NOT REQUIRED FOR THIS PROJECT.
   "YES" MEANS TEST/INSPECTION IS REQUIRED FOR THIS PROJECT.
3. COMPRESSIVE STRENGTH OF MASONRY SHALL BE DETERMINED BY "UNIT STRENGTH METHOD" OR "PRISM TEST METHOD" AS DEFINED BY THE CBC.
4. INSPECTION BY DSA-CERTIFIED PROJECT INSPECTOR FOR ALL STAGES OF CONSTRUCTION.
5. BATCH PLANT INSPECTION IS NOT REQUIRED PROVIDED THE REQUIREMENTS OF CONCRETE NOTE 8 SHEET S-1.0 ARE MET.
6. TESTING FOR BLOCK UNITS IS REQUIRED FOR UNITS WITHOUT MATERIAL CERTIFICATES. UNITS TESTS SHALL BE DONE AND RESULTS REVIEWED PRIOR TO STARTING LAYUP OF UNITS. TESTING IS NOT REQUIRED FOR UNITS WITH MATERIAL CERTIFICATES.
7. TESTS OF REINFORCING BARS ARE NOT REQUIRED FOR MASONRY PER REINFORCING STEEL NOTE 9 SHEET S-1.0, PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED TO THE INSPECTOR OF RECORD FOR EACH SHIPMENT OF SUCH REINFORCEMENT.

CONCRETE:

1. MIX DESIGN REQUIREMENTS:
   A. CONCRETE MIXTURES SHALL COMPLY WITH THE MOST RESTRICTIVE REQUIREMENTS FROM CBC SECTIONS 1903A, 1904A, 1905A, AND ACI 318 TABLE 19.3.2.1 AND BASED UPON THE FOLLOWING:

	ANTICIPATED EXPOSURE CLASS PER ACI 318				REQUIREMENTS		
					CEMENT TYPE	MAX w/cm	MIN f'c
ALL CONCRETE	F0	S1	W0	C0	II	0.50	4000

   NOTES:
   1. CEMENT TYPE = ALL CEMENT USED SHALL BE IN CONFORMANCE WITH ASTM C-150. ALTERNATE BLENDED CEMENTS PER ACI 318 TABLE 19.3.2.1 ARE ALSO PERMITTED.
   2. MAX w/cm = MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO BY WEIGHT.
   3. MIN f'c = MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS
   4. EXPOSURE CATEGORIES/CLASSES:
      F = FREEZING AND THAWING - SEE ACI 318 SECTION 19.3.3 FOR ADDITIONAL AIR CONTENT AND CEMENT REQUIREMENTS WHERE EXPOSURE CLASSES F1, F2, AND F3 OCCUR.
      S = SULFATE
      W = REQUIRING LOW PERMEABILITY
      C = CORROSION PROTECTION OF REINFORCEMENT
      0 TO 3 = LEVEL OF SEVERITY PER ACI TABLE 19.3.1.1

   B. MAXIMUM SIZE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL BE AS LARGE AS POSSIBLE TO MINIMIZE CONCRETE SHRINKAGE POTENTIAL, 1 1/2 INCH MAXIMUM SIZE IS RECOMMENDED.
   C. CONCRETE SLUMP SHALL BE DESIGNED TO 4 INCHES. ALL CONCRETE WITH SLUMPS IN EXCESS OF 5 INCHES SHALL NOT BE USED.
   D. FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C-33 FOR HARD ROCK AGGREGATES AND ASTM C-330 FOR LIGHT WEIGHT AGGREGATES.
   E. ALL CONCRETE SHALL BE NORMAL WEIGHT (HARD ROCK) UNLESS NOTED AS LIGHT WEIGHT. LIGHT WEIGHT CONCRETE SHALL NOT EXCEED 110 POUNDS PER CUBIC FOOT.
   F. THE CONCRETE SUPPLIER MUST BEAR THE TOTAL RESPONSIBILITY THAT THE MIX DESIGNS WILL ATTAIN THE REQUIRED STRENGTH.
2. CONTINUOUS INSPECTION BY A D.S.A. APPROVED INSPECTOR IS REQUIRED FOR ALL CONCRETE PLACEMENT.
3. LOCATIONS OF CONSTRUCTION OR POUR JOINTS MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
4. PIPES OR DUCTS EXCEEDING ONE THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
5. PIPES MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES, BUT SHALL NOT BE EMBEDDED THEREIN.
6. PROVIDE 3/4" CHAMFERS AT ALL EXPOSED CORNERS.
7. REFER TO ARCH'L DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR GROUNDS REQUIRED TO BE CAST IN CONCRETE, AND/OR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
8. BATCH PLANT INSPECTION IS NOT REQUIRED FOR THIS PROJECT PER CBC SECTION 1705A.3.3.2, PROVIDED THE FOLLOWING REQUIREMENTS ARE MET:
   A. THE CONCRETE PLANT FULLY COMPLIES WITH REQUIREMENTS OF ASTM C94, SECTIONS 9 AND 10, AND HAS A CURRENT CERTIFICATE FROM THE NATIONAL READY MIXED CONCRETE ASSOCIATION OR OTHER AGENCY APPROVED BY DSA. THE CERTIFICATION SHALL INDICATE THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES.
   B. AN APPROVED AGENCY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY TO VERIFY MATERIALS AND PROPORTIONS CONFORM TO THE APPROVED MIX DESIGN.
   C. A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
   D. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS, SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP AND MAINTAIN A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE.

ABBREVIATIONS:

(SEE ARCH'L AND OTHER STANDARDS FOR ADD'L)

ALT.	=	ALTERNATE	M.B.	=	MACHINE BOLT
B	=	BOTTOM	N.T.S	=	NOT TO SCALE
B, ℄	=	BASE PLATE	N.S.	=	NEAR SIDE
BM.	=	BEAM	OPP.	=	OPPOSITE ON CENTER
C.	=	CAMBER	o/c	=	ON CENTER
C.J.	=	CONSTRUCTION JOINT	OWJ	=	OPEN WEB JOIST
℄, CL	=	CENTER LINE	℄, PL	=	PLATE
CONC.	=	CONCRETE	PIL.	=	PILASTER
CONT.	=	CONTINUOUS	P.J.	=	PANEL JOINT
CTSK.	=	COUNTER SUNK	PWJ.	=	WOOD 'I' JOIST
D.	=	DEPTH	PTDF.	=	PRESSURE TREATED DOUGLAS FIR
E.F.	=	EACH FACE	P/T	=	POST-TENSIONED (CONCRETE)
E.W.	=	EACH WAY	R.B.	=	RADIUS BENT
EXP.	=	EXPANSION	SDS	=	SIMPSON SELF DRILLING SCREW
E.J.	=	EXPANSION JOINT	SIM.	=	SIMILAR
F.O.C.	=	FACE OF CONCRETE	S.M.S.	=	SHEET METAL SCREW (SAME AS SDS)
F.O.M.	=	FACE OF MASONRY	S.P.C.	=	STANDARD PIPE COL.
F.O.S.	=	FACE OF STUD	STL.	=	STEEL
F.S.	=	FAR SIDE	T.O.F.	=	TOP OF FOOTING
GLB	=	GLUE-LAMINATED BEAM	T.O.S.	=	TOP OF STEEL
GRD. BM.	=	GRADE BEAM	T.O.W.	=	TOP OF WALL
HDR.	=	HEADER	TS.	=	TUBE STEEL
HGR.	=	HANGER	TYP.	=	TYPICAL
H.R.	=	HARDROCK (CONCRETE)	U.N.O	=	UNLESS NOTED OTHERWISE
HSS	=	HOLLOW STRUCTURAL SECTION	V.I.F.	=	VERIFY IN FIELD
K.	=	KIPS	W.S.	=	WOOD SCREW
K.P.	=	KING POST	(E)	=	EXISTING (CONSTRUCTION)
LLV.	=	LONG LEG VERTICAL	(N)	=	NEW (CONSTRUCTION)
LLH.	=	LONG LEG HORIZONTAL			
LT. WT.	=	LIGHT WEIGHT (CONCRETE)			

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT OR ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.
2. NOTES & DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
3. ALL MATERIAL & WORKMANSHIP SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, 2025 EDITION AND C.C.R. TITLE 24.
4. THE DESIGN, ADEQUACY & SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORT FORMS ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO INSURE THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ALL WALLS, ROOF & FLOOR SHEATHING, AND FINISH MATERIALS. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE AFOREMENTIONED MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH OSHA REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, THE ADDITION OF ANCHOR BOLTS AND/OR TEMPORARY BRACING TO INSURE COLUMN STABILITY DURING CONSTRUCTION. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
5. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR SITE SAFETY. ANY FABRICATOR AND ERECTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND IF THE STRUCTURE, AS SHOWN ON THOSE DOCUMENTS, IS IN CONFLICT WITH THE REQUIREMENTS OF ANY SAFETY REGULATION, THE FABRICATOR SHALL NOTIFY THE STRUCTURAL ENGINEER (ME STRUCTURAL ENGINEERING) PRIOR TO COMMENCING SHOP DRAWING PRODUCTION. IF THE FABRICATOR AND/OR ERECTOR FAIL TO NOTIFY THE STRUCTURAL ENGINEER, AS STATED ABOVE, THEY SHALL BECOME RESPONSIBLE FOR ALL COSTS FOR CORRECTING SUCH CONFLICTS WITH THE REQUIREMENTS OF ANY AND ALL SAFETY REGULATIONS.
6. ALL WORKS TO HAVE CONTINUOUS INSPECTION BY PROJECT INSPECTOR PER SEC 1701A, 2025 CBC.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
11. THE STRUCTURAL ENGINEER REQUIRES 5 TO 10 WORKING DAYS FROM WHEN THE SHOP DRAWINGS ARE RECEIVED UNTIL THE TIME THEY ARE SENT OUT OF THE OFFICE. THE TIME FOR PROCESSING MAY VARY FURTHER, DEPENDING UPON THE VOLUME OF DRAWINGS RECEIVED AT ONE TIME. THE CONTRACTOR SHALL FURNISH ONE PRINTED COPY FOR THE STRUCTURAL ENGINEER'S RECORDS IN ADDITION TO OTHER COPIES.
13. DESIGN CRITERIA: (2025 CALIFORNIA BUILDING CODE)
   1. DEAD AND LIVE LOADS N/A
   2. ROOF SNOW LOAD DATA: GROUND SNOW LOAD, Pg = 8 PSF
   3. RISK CATEGORY: = II
   4. WIND DESIGN DATA:
      BASIC DESIGN WIND SPEED, V = 96 MPH
      ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd} = 74 MPH
      WIND EXPOSURE = C
      INTERNAL PRESSURE COEFFICIENT = ±0.00
      COMPONENTS AND CLADDING WIND PRESSURE ON BUILDINGS = N/A
   5. TORNADO DESIGN DATA: (SITE IS NOT IN TORNADO-PRONE REGION)
   6. EARTHQUAKE DESIGN DATA:
      SEISMIC IMPORTANCE FACTOR, I_e = 1.0
      SEISMIC COMPONENT IMPORTANCE FACTOR, I_p = 1.0
      SEISMIC DESIGN CATEGORY: D
      SITE CLASS: BC, C
      S_S = 1.5 S_{DS} = 1.03
      S_1 = 0.53 S_{D1} = 0.51
      SEISMIC FORCE RESISTING SYSTEM:
      GROUND-SUPPORTED CANTILEVER WALLS OR FENCES
      R = 1.25 Ω_0 = 2.0 ρ = 1.0 C_s = 0.88
      DESIGN BASE SHEAR, V = 0.88W [ULTIMATE]
      ANALYSIS PROCEDURE: ASCE 7 CHAPTER 15 SEISMIC DESIGN FOR NONBUILDING STRUCTURES, SECTION 15.6.8 AND SECTION 15.4. EQUIVALENT LATERAL FORCE PROCEDURE
      APPLICABLE HORIZONTAL STRUCTURAL IRREGULARITIES: N/A
      APPLICABLE VERTICAL STRUCTURAL IRREGULARITIES: N/A
      LOCATION OF BASE: GROUND LEVEL
   7. ROOF RAIN DESIGN DATA:
      RAIN INTENSITY = N/A

FOUNDATIONS:

1. ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF (+ 1/3 INCREASE WITH WIND/SEISMIC)
   MINIMUM EMBEDMENT = 24"
   MINIMUM FOOTING WIDTH = 18" (CONT. FOOTINGS) = 24" x 24" (PAD FOOTINGS)
   ALLOWABLE PASSIVE PRESSURE = 200 PSF/FT (+ 1/3 INCREASE WITH WIND/SEISMIC)
   FRICTION COEFFICIENT = 0.35 (PASSIVE REDUCED BY 1/3 WHEN COMBINED WITH FRICTION)
   BASED ON SOILS REPORT BY: UES PROFESSIONAL SOLUTIONS, INC. MARCH AIR RESERVE BASE, CA PROJECT NO. A26167.00538.000 DATED JULY 31, 2026
2. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING ANY REINFORCING IN THE EXCAVATED TRENCHES.
3. REFER TO GEOTECHNICAL REPORT FOR EXTENT OF SITE OVER-EXCAVATION AND RE-COMPACTION. ALSO REFER TO 16 -
4. SOIL CLASSIFICATION: SILTY SAND (SM), SAND WITH SILT, AND SILT WITH SAND
5. FOR ALL FILLS USED TO SUPPORT THE FOUNDATION OF BUILDINGS, SUBMIT A REPORT OF SATISFACTORY PLACEMENT OF FILL TO D.S.A. PRIOR TO ANY REINFORCING BEING PLACED IN FOUNDATION EXCAVATIONS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT DEREK C. STEMEN NO. C34608 REN. 12/27 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MATTHEW J. GRAY NO. 90744 STRUCTURAL STATE OF CALIFORNIA

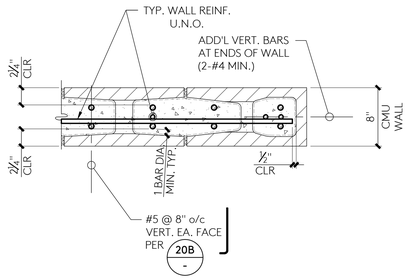
10/21/26

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

STRUCTURAL GENERAL NOTES AND TYPICAL DETAILS

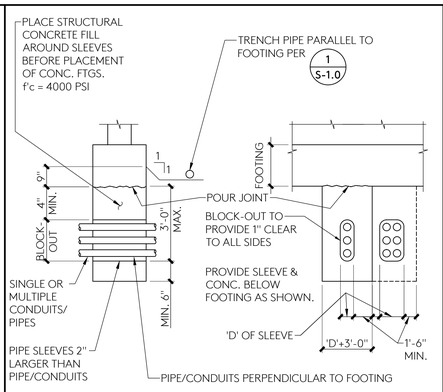
10/21/2026

REV. # DATE



PLAN VIEW

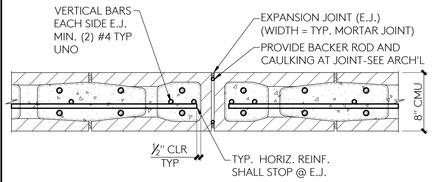
TYP END OF WALL - SITE WALLS | 1



TYP. PIPES/CONDUITS BELOW FOOTING | 2

NOTE: PROVIDE JOINTS:

SITE ENCLOSURE WALLS: WHERE NOTED

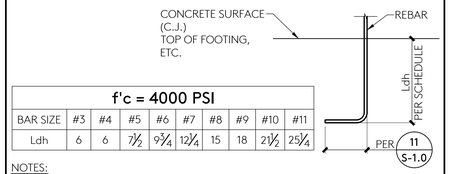


PLAN VIEW

NOTES:

1. DO NOT PLACE MORTAR IN EXPANSION JOINT.

TYP. EXPANSION JOINT - SITE WALLS | 6

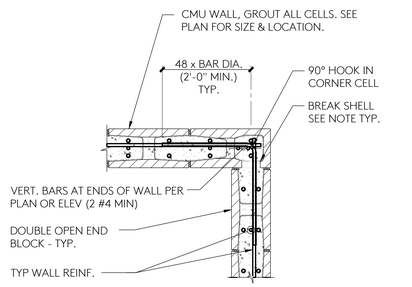


f'c = 4000 PSI									
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
Ldh	6	6	7½	9¾	12¼	15	18	21½	25¾

NOTES:

1. ALL LENGTHS ARE IN INCHES.
2. ALL VALUES ARE FOR UNCOATED GRADE 60 REINFORCING IN NORMAL WEIGHT CONCRETE.
3. TABULATED VALUES ARE MINIMUM LENGTHS. PROVIDING LONGER LENGTHS IS GENERALLY ACCEPTABLE.
4. "Ldh" = HOOK DEVELOPMENT LENGTH (INCHES)
   "LAP" = LAP SPLICE LENGTH (INCHES)
   "d_b" = DIAMETER OF REINFORCING BAR (INCHES)
5. LENGTHS ARE BASED UPON:
   a) BAR CLEAR SPACING ≥ $2d_b$, AND CONCRETE COVER ≥ d_b; OR
   b) BAR CLEAR SPACING ≥ d_b, CLEAR COVER ≥ d_b, AND STIRRUPS/TIES THROUHOUT Ldh

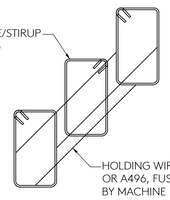
TYP. HOOK DEVELOPMENT LENGTHS FOR REINF. | 7



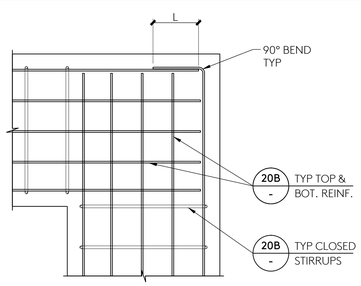
PLAN VIEW

NOTES: BLOCK LAYOUT SHOWN IS DIAGRAMMATIC. ACTUAL CONDITION WILL VARY PER RUNNING BOND PATTERN, USE APPROPRIATE UNITS OR BREAK CMU SHELL AS REQUIRED FOR REINFORCING PLACEMENT AND FLOW OF GROUT.

TYP. REINF. AT CORNERS | 11



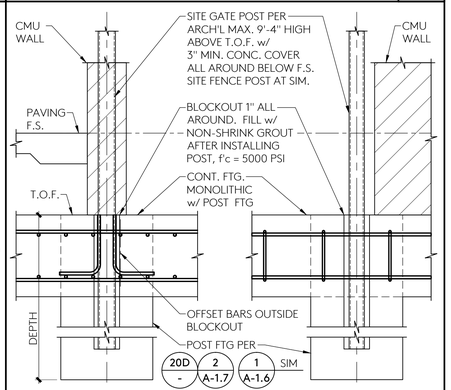
OPTIONAL HOLDING WIRES | 12



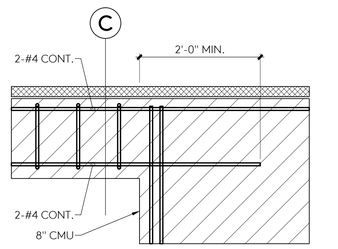
PLAN VIEW

"L"= 48 BAR DIAMETER IN CONCRETE/MASONRY.

TYP. REINF. AT CORNERS | 16



TYP. GATE POST AT CMU WALL | 17

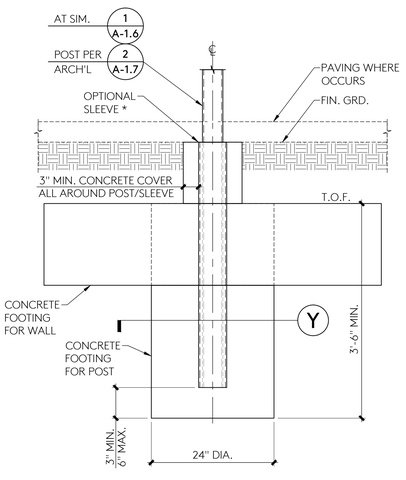


ELEVATION AT CORNER — SCALE: 1" = 1'-0" — E

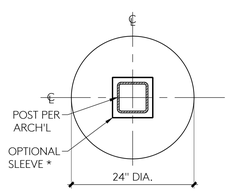
POST FOOTING NOTES:

1. FOOTINGS SHALL BE IN ACCORDANCE WITH ACI 336.1.
2. CENTER OF FOOTINGS SHALL BE PLACED AT CENTER OF STEEL POSTS UNLESS NOTED OTHERWISE.
3. POUR POST FOOTINGS MONOLITHIC WITH ENCLOSURE WALL FOOTINGS. REFER TO 17 -
4. FOOTING EXCAVATION IS EXEMPT FROM GEOTECHNICAL SPECIAL INSPECTION PER DSA 103 APPENDIX.
5. CONCRETE IS EXEMPT FROM BATCH PLANT SPECIAL INSPECTION PER DSA 103 APPENDIX, PROVIDED THE REQUIREMENTS PER CONCRETE NOTE 8 ON SHEET S-1.0 ARE MET.
6. REFER TO CONCRETE NOTES ON SHEET S-1.0 FOR ADDITIONAL REQUIRMENTS FOR THESE FOOTINGS.

* NOTE:
OPTIONAL SLEEVE TO ALLOW POST TO BE INSTALLED AFTER FOOTING. OPTIONAL SLEEVE SHALL BE GALVANIZED HSS WITH MINIMUM SIZE ½" LARGER THAN POST SIZE (i.e. HSS4½x4½x¼ SLEEVE FOR HSS3x3 POST, HSS8x8x⅝ SLEEVE FOR HSS6x6 POST). GAP SHALL BE FILLED WITH NON-SHRINK FLOWABLE GROUT, f'c = 5000 PSI.

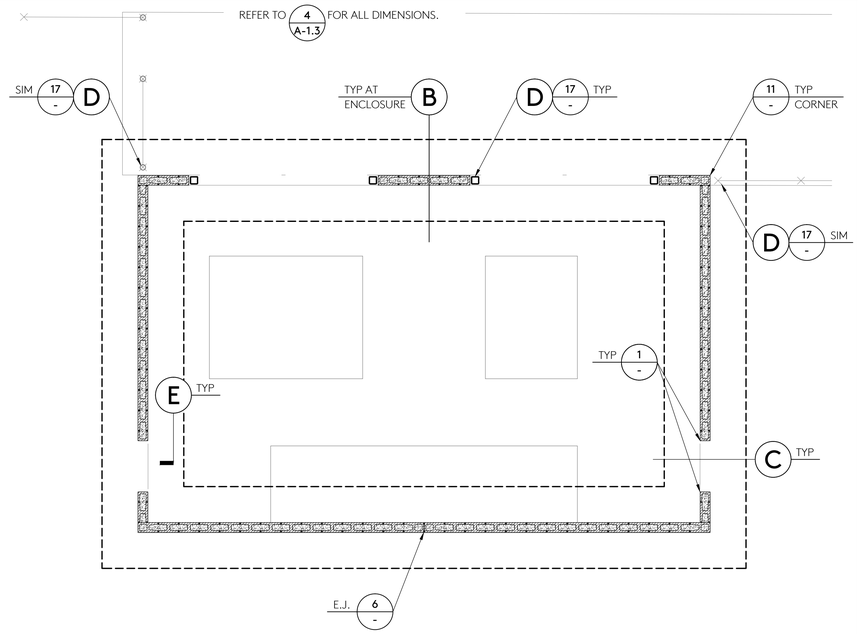


X — ELEVATION

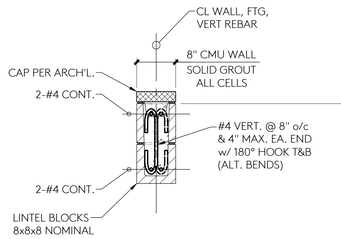


Y — PLAN VIEW

GATE POST FOOTING — SCALE: 1" = 1'-0" — D



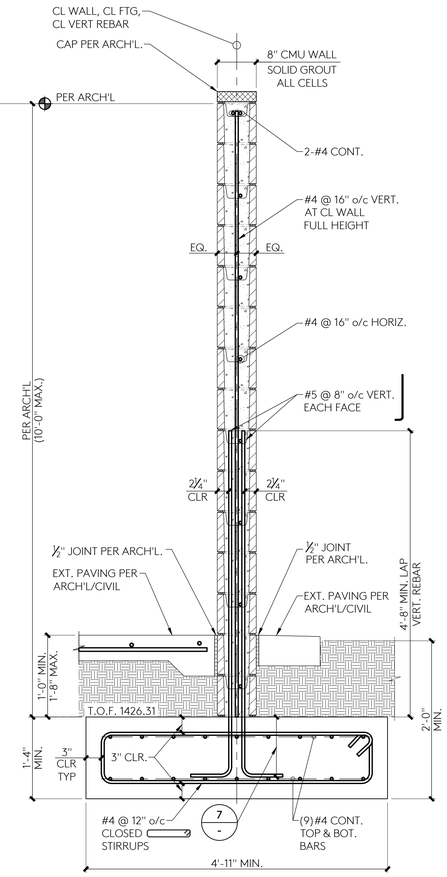
FOUNDATION PLAN — SCALE: 1/4" = 1'-0" — A



LINTEL — SCALE: 1" = 1'-0" — C

MASONRY SITE WALL NOTES:

1. REFER TO CONCRETE BLOCK MASONRY NOTES ON SHEET S-1.0 FOR ADDITIONAL NOTES AND REQUIREMENTS.
2. CORE SAMPLING AND TESTING IS NOT REQUIRED FOR THESE WALLS PER EXCEPTION #1 OF CBC SECTION 2105A.4
3. PROVIDE FULL HEIGHT VERTICAL EXPANSION JOINTS IN WALLS PER 6 -
4. PROVIDE ADD'L VERTICAL BARS AT ENDS OF WALL PER 1 -
5. PROVIDE REINFORCING AT CORNERS OF WALLS PER 11 - AND AT CORNERS OF FOOTINGS PER 16 -
5. REFER TO 12 - FOR OPTIONAL HOLDING WIRES.
6. HEIGHT OF ALL MASONRY BLOCKS SHALL BE 8" NOMINAL.
7. CONCRETE IS EXEMPT FROM BATCH PLANT SPECIAL INSPECTION PER DSA 103 APPENDIX, PROVIDED THE REQUIREMENTS PER CONCRETE NOTE 8 ON SHEET S-1.0 ARE MET.



MASONRY WALL SECTION — SCALE: 1" = 1'-0" — B

UTILITY ENCLOSURE | 20

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DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT — DEREK C. STEMKOSKI — NO. C34608 REN. 12/27 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MATTHEW J. GRAY — No. 3 — STRUCTURAL — STATE OF CALIFORNIA

10/21/26

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

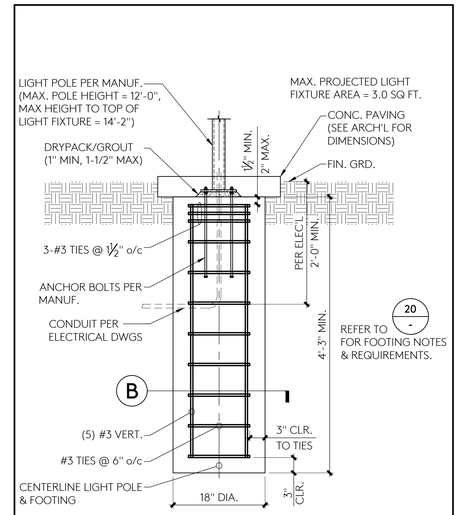
STRUCTURAL TYPICAL DETAILS

S-1.1

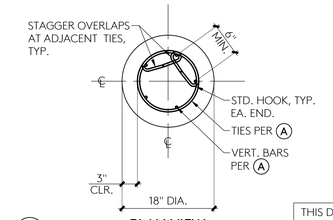
10/21/2026

PROJECT NO.: \Matt\ PLOT DATE: 10/21/2026 FILE: S PH1.DWG

REV. # DATE



A ELEVATION



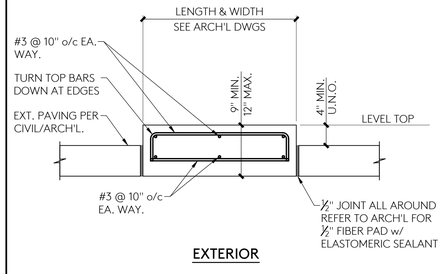
B PLAN VIEW

THIS DETAIL IS NOT PART OF THE DSA SS APPROVAL

TYPICAL LIGHT POLE FOOTING | 10

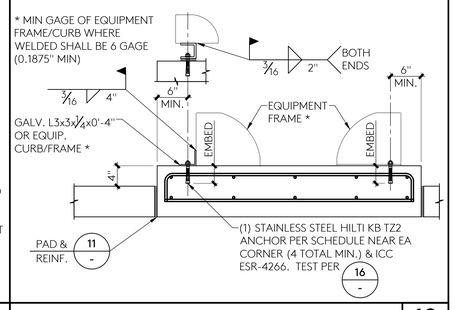
HILTI KB-TZ2 (STAINLESS STEEL) SCHEDULE				
SIZE	MINIMUM EMBED		EQUIPMENT	MAX. WT.
	EFFECTIVE	NOMINAL		
⅜ x 3	2"	2½"	3/E5.1 TRANSFORMER	1263 LBS
⅝ x 4¾	3¼"	3¾"	9/E5.1 SWITCHBOARD	1200 LBS
⅝ x 4¾	3¼"	3¾"	SCE SWITCH **	9200 LBS
⅝ x 4¾	3¼"	3¾"	SCE TRANSFORMER **	16000 LBS

** SCE EQUIPMENT DIMENSIONS:
SWITCH: 3'-6"H x 4'-0"W x 7'-0"L
TRANSFORMER: 7'-8"H x 8'-5"W x 6'-0"L



EXTERIOR

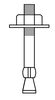
TYP. RAISED CONCRETE EQUIPMENT PAD | 11



TYP. EQUIPMENT ANCHORS - EXTERIOR | 12

PROOF LOAD TEST FOR EXPANSION TYPE ANCHOR BOLTS:
(BOLT MUST HAVE I.C.C. APPROVAL)
LOAD TEST TO "PULL LOAD" IN TENSION (FOR EA. JOB) PER FOLLOWING FREQUENCY:
NON-STRUCTRURAL APPLICATIONS: TEST 50% OR ALT. BOLTS IN A GROUP. IF ANY ANCHOR FAILS, THEN TEST ALL ANCHORS. PERFORM THE LOAD TEST IN THE PRESENCE OF THE PROJECT INSPECTOR. THE LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR, SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, A TORQUE WRENCH CALIBRATED FOR USE WITH THE SPECIFIC ANCHOR, CALIBRATED SPRING-LOADING DEVICES, ETC. ANCHORS IN WHICH THE TORQUE IS USED TO EXPAND THE ANCHOR WITHOUT APPLYING TENSION TO THE BOLT MAY NOT BE VERIFIED WITH A TORQUE WRENCH.

HARDROCK CONCRETE				
ANCHOR DIA. IN.	EXPANSION ANCHOR			
	PULL LOAD LBS.	TORQUE FT. LBS.	MIN. EMBED, IN.	
			EFFECTIVE	NOMINAL
⅜"	1900	30	2"	2½"
⅝"	4700	60	3¼"	3¾"



EXPANSION TYPE

TYP. EXPANSION BOLT TESTS | 16

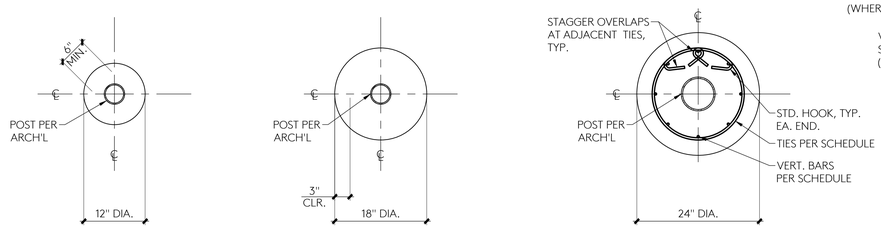
FOOTING NOTES:

1. FOOTINGS SHALL BE IN ACCORDANCE WITH ACI 336.1.
2. CENTER OF FOOTINGS SHALL BE PLACED AT CENTER OF STEEL POSTS UNLESS NOTED OTHERWISE.
3. (NOT USED)
4. CONCRETE IS EXEMPT FROM BATCH PLANT SPECIAL INSPECTION PER DSA 103 APPENDIX, PROVIDED THE REQUIREMENTS PER CONCRETE NOTE 8 ON SHEET S-1.0 ARE MET.
5. ANCHORAGE OF INDIVIDUAL CIRCULAR TIES SHALL BE IN ACCORDANCE WITH (a) THROUGH (c)
   a) ENDS SHALL OVERLAP BY AT LEAST 6 IN.
   b) ENDS SHALL TERMINATE WITH STANDARD HOOKS IN ACCORDANCE WITH ACI 318 SECTION 25.3.2 THAT ENGAGE A LONGITUDINAL BAR.
   c) OVERLAPS AT ENDS OF ADJACENT CIRCULAR TIES SHALL BE STAGGERED AROUND THE PERIMETER ENCLOSING THE LONGITUDINAL BARS

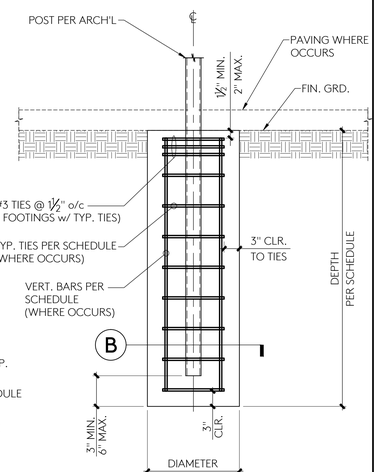
FOOTING SCHEDULE							
FENCE/GATE/POLE				FOOTING			
TYPE		DESIGN HEIGHT *	DESIGN WIDTH *	SIZE		REBAR	
				DIAMETER	DEPTH *	VERT.	TYP. TIES
GATE	3/A-1.7	5'-0"	4'-4"	18"	3'-8"	N/A	N/A
GATE	4/A-1.7	5'-0"	4'-4"	18"	3'-8"	N/A	N/A
GATE - DOUBLE	5/A-1.7	5'-0"	12'-0"	24"	3'-10"	(8) #3	#3 @ 5" o/c
GATE - DOUBLE	6/A-1.7	5'-0"	21'-0"	24"	4'-6"	(8) #3	#3 @ 5" o/c
FENCE	1/A-1.6	5'-0"	8'-0"	12"	3'-4"	N/A	N/A
LIGHT POLE	4/A-1.12	12'-0"	-	REFER TO DETAIL 10 THIS SHEET			

* NOTE: DESIGN HEIGHT IS MEASURED FROM FINISH SURFACE OR FINISH GRADE TO TOP OF POST/POLE. DESIGN WIDTH IS MEASURED FROM CENTERLINE TO CENTERLINE OF POSTS. HEIGHTS & WIDTHS NOTED IN SCHEDULE ARE MAXIMUM DIMENSIONS FOR FOOTING DESIGN. REFER TO ARCH'L FOR ACTUAL DIMENSIONS.

* NOTE: DEPTH (MINIMUM) IS MEASURED FROM BOTTOM OF PAVING OR FINISH GRADE



PLAN VIEW B



ELEVATION A

TYPICAL - POST/POLE FOOTINGS | 20

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PJHM architects

LICENSED ARCHITECT
DEREK C. STEMKOSKI
NO. C34608
REN. 12/27
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
STRUCTURAL
STATE OF CALIFORNIA

10/21/26

GRANITE HILLS MIDDLE SCHOOL
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ABBREVIATIONS

4S/DP	4" SQUARE BY 2-1/8" DEEP BOX	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	NO	NORMALLY OPENED
ADA	AMERICAN WITH DISABILITIES ACT	GFP	GROUND FAULT PROTECTION	NF	NON-FUSED
A.F.F.	ABOVE FINISH FLOOR	GE or GEC	GROUNDING ELECTRODE CONDUCTOR	NIC	NOT IN CONTRACT
A.F.G.	ABOVE FINISH GRADE	HACR	HEATING AIR CONDITIONING REFRIGERATION	N.T.S.	NOT TO SCALE
AWG	AMERICAN WIRE GAUGE			NL	NIGHT LIGHT
AMP, A	AMPERE	HOA	HAND-OFF-AUTO	NO. or #	NUMBER
A.I.C. or AIC	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
A.F.C. or AFC	AVAILABLE FAULT CURRENT	H.,W.,D.,L.	HEIGHT, WIDTH, DEPTH, LENGTH	%Z	PERCENT IMPEDANCE
AF/AT	AMP FRAME, AMP TRIP	HID	HIGH INTENSITY DISCHARGE	PH. or ø	PHASE
AHJ	AUTHORITY HAVING JURISDICTION	HP	HORSEPOWER	PC	PHOTOCELL
AS/AF	AMP SWITCH, AMP FUSE	HPS	HIGH PRESSURE SODIUM	P.C.	PLUMBING CONTRACTOR
ATS	AUTOMATIC TRANSFER SWITCH	IN. or "	INCHES	P	POLE
AVG	AVERAGE	I/G	ISOLATED GROUND	PVC	POLY VINYL CHLORIDE
BJ	BONDING JUMPER	IBC	INTERNATIONAL BUILDING CODE	PDU	POWER DISTRIBUTION UNIT
BDF	BUILDING DISTRIBUTION FRAME	I.D.C.S.	INTEGRATED DIMMING CONTROL PANEL	PRIMARY	OVER 600 VOLTS
BR	BRANCH	IDF	INTERMEDIATE DISTRIBUTION FRAME	PROVIDE	FURNISH, INSTALL AND CONNECT
BLDG	BUILDING	JBOX	JUNCTION BOX	PT	POTENTIAL TRANSFORMER
CBC	CALIFORNIA BUILDING CODE	K	DEGREE KELVIN	PA	PUBLIC ADDRESS
CEC	CALIFORNIA ELECTRICAL CODE	KCMIL	THOUSAND CIRCULAR MILS	(R)	DENOTES RELOCATED DEVICE LOCATION.
CIRC., CKT.	CIRCUIT	KVA	KILOVOLT AMPERES		
CB	CIRCUIT BREAKER	KW	KILOWATT	REC, RECEPT	RECEPTACLE
CSFD	COMBINATION SMOKE FIRE DAMPER	KWH	KILOWATT HOUR	REF	REFRIGERATOR
C	CONDUIT	LCL	LONG CONTINUOUS LOAD	RGS	RIGID GALVANIZED STEEL
C.O.	CONDUIT ONLY, COMPLETE WITH PULLSTRING	LF, L.F.	LINEAR FEET	RMS	ROOT MEAN SQUARE
		LTG, LTS	LIGHTING	SCC	SHORT CIRCUIT CURRENT
CONN	CONNECTED	LPS	LOW PRESSURE SODIUM	SCCR	SHORT CIRCUIT CURRENT RATING
CPT	CONTROL POWER TRANSFORMER	MAX.	MAXIMUM	SCS	STRUCTURED CABLING SYSTEM
CLCB	CURRENT LIMITING CIRCUIT BREAKER	MBJ	MAIN BONDING JUMPER	SFD	SMOKE FIRE DAMPER
CLF	CURRENT LIMITING FUSE	MDF	MAIN DISTRIBUTION FRAME	SECONDARY	600 VOLTS AND LESS
CT	CURRENT TRANSFORMER	MOCP	MAXIMUM OVERCURRENT PROTECTION	SMACNA	SHEET METAL AND AIR COND. CONTRACTOR'S NAT'L ASSOC.
(D)	EXISTING DEVICE TO BE DEMOLISHED	MCB	MAIN CIRCUIT BREAKER		
DAS	DISTRIBUTED ANTENNA SYSTEM	MLO	MAIN LUGS ONLY	SQ.	SQUARE
DIA	DIAMETER	M.C.	MECHANICAL CONTRACTOR	SSBJ	SUPPLY SIDE BONDING JUMPER
DISC	DISCONNECT	M	METER	SBJ	SYSTEM BONDING JUMPER
DIST	DISTRIBUTION	M/M	METER MAIN	TC	TIMECLOCK
D.P.C.S.	DIMMING PANEL CONTROL STATION	MV	MERCURY VAPOR	TEL/DATA	TELEPHONE AND DATA
E.C.	ELECTRICAL CONTRACTOR	MH	METAL HALIDE	TV	TELEVISION
EMS	ENERGY MANAGEMENT CONTROL SYSTEM	MIN.	MINIMUM	T.V.S.S.	TRANSIENT VOLTAGE SURGE SUPPRESSION
EMT	ELECTRICAL METALLIC TUBING	MCA	MINIMUM CIRCUIT AMPS		
ENT	ELECTRICAL NON-METALLIC TUBING	MCC	MOTOR CONTROL CENTER	TYP	TYPICAL
EWC	ELECTRIC WATER COOLER	MCM	THOUSAND CIRCULAR MILS	U.G.P.S.	UNDERGROUND PULL SECTION
E.P.O.	EMERGENCY POWER OFF	MCP	MOTOR CIRCUIT PROTECTOR	U.O.N.	UNLESS OTHERWISE NOTED
E-O-L	END-OF-LINE CIRCUIT TERMINATOR	MFR.	MANUFACTURER	U.P.S. or UPS	UNINTERRUPTABLE POWER SYSTEM
EF	EXHAUST FAN	MTD	MOUNTED	VAV	VARIABLE AIR VOLUME
EGC or EG or E/G	EQUIPMENT GROUND (GREEN)	MW	MICROWAVE	V	VOLTS
(E)	EXISTING DEVICE TO REMAIN	NATS	NON AUTOMATIC DISCONNECT	VA	VOLT AMPERES
EP	EXPLOSION PROOF	NEC	NATIONAL ELECTRICAL CODE	VD	VOLTAGE DROP
(ER)	EXISTING DEVICE TO BE RELOCATED	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	WP	WEATHERPROOF
FT or '	FEET			W	WIRE
FA or F.A.	FIRE ALARM	NC	NORMALLY CLOSED	XFMR	TRANSFORMER
FLA	FULL LOAD AMPS				
GRD	GROUND				

FIRE ALARM SYSTEM SYMBOLS

SEE FIRE ALARM OR CENTRAL MONITORING SYSTEM DRAWINGS FOR FIRE ALARM SYMBOLS.

SIGNAL SYSTEM SYMBOLS

- WALL MOUNTED I.P. INTERCOM CLOCK & BELL SYSTEM CLOCK/SPEAKER COMBINATION UNIT, WITH BACKBOX AND 3/4"C TO NEAREST PATCH PANEL WITH CONDUCTORS PER SPECIFICATIONS.
- C — CONCEALED CLOCK CONDUIT RUN 1/2" CONDUIT, OR AS NOTED, WITH CONDUCTORS PER SPECIFICATIONS.
- TV OUTLET, WALL MOUNTED. STUB A 3/4" C.O. UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE BUSHING.
- TV OUTLET FLUSH CEILING MOUNTED.
- TV — CONCEALED TELEVISION CONDUIT RUN, 3/4" CONDUIT, OR AS NOTED, WITH CONDUCTORS - REFER TO SPECIFICATIONS.
- MICROPHONE OUTLET, WALL MOUNTED. PROVIDE 3/4" C.O. (WITH PULL ROPE) UP TO 6" ABOVE ACCESSIBLE CEILING SPACE. PROVIDE BUSHING AT EACH END.
- MICROPHONE OUTLET, FLUSH CEILING MOUNTED.
- M — CONCEALED MICROPHONE CONDUIT RUN, 3/4" CONDUIT, OR AS NOTED, WITH CONDUCTORS - REFER TO SPECIFICATIONS.
- SURFACE WALL MOUNTED SPEAKER, "V" INDICATES VOLUME CONTROL.
- SURFACE MOUNTED SPEAKER , "V" INDICATES VOLUME CONTROL.
- FLUSH WALL MOUNTED SPEAKER , "V" INDICATES VOLUME CONTROL.
- CEILING FLUSH MOUNTED SPEAKER , "V" INDICATES VOLUME CONTROL.
- ABOVE CEILING MOUNTED SPEAKER , "V" INDICATES VOLUME CONTROL.
- VOLUME CONTROL, WALL MOUNTED.
- S — CONCEALED SPEAKER CONDUIT RUN 3/4" CONDUIT, OR AS NOTED, WITH CONDUCTORS - REFER TO SPECIFICATIONS.
- WP EXTERIOR INTERCOM I.P. SYSTEM SPEAKER, WALL MOUNTED, WITH BACKBOX AND 3/4"C TO NEAREST PATCH PANEL WITH CONDUCTORS PER SPECIFICATIONS. "WP" INDICATES WEATHER PROOF.

ANNOTATIONS

- PANEL CALLOUT, "A" INDICATES PANELBOARD OR EQUIPMENT DESIGNATION.
- AC / 2 — MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.
- 3 / E-1 — DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.
- 2 — PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.
- 4 — REVISION REFERENCE.
- WYE CONFIGURATION — DELTA CONFIGURATION — GROUND

TELEPHONE / DATA SYSTEM SYMBOLS

- TELEPHONE OUTLET BOX, WALL MOUNTED. MOUNT +44" AFF UNLESS OTHERWISE NOTED. STUB A 1" C. WITH CONDUCTORS UP 6" ABOVE THE NEAREST ACCESSIBLE CEILING OR TO NEAREST HEAD-END EQUIPMENT AS REQUIRED. 4S DEEP BOX WITH SINGLE GANG RING. REFER TO SPECIFICATIONS AND FACE PLATE DETAILS FOR MORE INFORMATION.
- DATA OUTLET BOX, WALL MOUNTED. STUB A 1" C. WITH CONDUCTORS UP 6" ABOVE THE NEAREST ACCESSIBLE CEILING OR TO NEAREST HEAD-END EQUIPMENT AS REQUIRED. 4S DEEP BOX WITH SINGLE GANG RING. NUMBER IN PARENTHESES INDICATES REQUIRED QUANTITY OF CABLES AND JACKS WHEN MORE THAN 1 IS REQUIRED. IF NO NUMBER IS SHOWN, PROVIDE ONE CABLE AND JACK MINIMUM. REFER TO SPECIFICATIONS AND FACE PLATE DETAILS FOR MORE INFORMATION.
- DATA OUTLET BOX MOUNTED ABOVE CEILING WITH CONDUCTORS. NUMBER IN PARENTHESES INDICATES REQUIRED QUANTITY OF CABLES AND JACKS WHEN MORE THAN 1 IS REQUIRED. IF NO NUMBER IS SHOWN, PROVIDE ONE CABLE AND JACK MINIMUM. REFER TO SPECIFICATIONS AND FACE PLATE DETAILS FOR MORE INFORMATION.

  SURFACE MOUNTED DATA OUTLET BOX WITH CONDUCTORS FOR WIRELESS ACCESS POINT. 4S DEEP BOX WITH BLANK COVER AND 1"C. MINIMUM TO NEAREST ACCESSIBLE CEILING OR AS NOTED ON PLANS. REFER TO SPECIFICATIONS AND FACE PLATE DETAILS FOR MORE INFORMATION.
- WAP — DATA OUTLET BOX MOUNTED ABOVE CEILING WITH CONDUCTORS FOR WIRELESS ACCESS POINT. REFER TO SPECIFICATIONS AND FACE PLATE DETAILS FOR MORE INFORMATION.
- FLUSH 4S DP BOX MINIMUM WITH WEATHERPROOF BLANK COVER AND 3/4" C. STUB TO ACCESSIBLE CEILING, WITH CONDUCTORS. FOR FUTURE VIDEO SURVEILLANCE CAMERA. REFER TO FACE PLATE DETAILS AND LAN NETWORK BLOCK DIAGRAM FOR MORE INFORMATION.
- D1 — CONCEALED DATA / TELEPHONE CONDUIT RUNS, 1" CONDUIT (MIN) U.O.N. WITH CONDUCTORS. SEE
- T1 — TABLE BELOW FOR CONDUIT SIZE VARIATIONS:

D2 = (1) 1 1/4" C.	D3 = (1) 1 1/2" C.	D4 = (1) 2" C.
T2 = (1) 1 1/4" C.	T3 = (1) 1 1/2" C.	T4 = (1) 2" C.

- FLUSH MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.
- SURFACE MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.
- TELEPHONE TERMINAL PLYWOOD BACKBOARD SIZED AS NOTED, REFER TO TELECOM BACKBOARD AND GROUND BUS BAR DETAIL.

SECURITY ALARM SYSTEM SYMBOLS

- SECP — SECURITY ALARM SYSTEM CONTROL PANEL AND CABINET COMPLETE. REFER TO BLOCK DIAGRAMS AND SPECIFICATIONS.
- SEPS — SECURITY ALARM TERMINAL CABINET COMPLETE WITH POWER SUPPLY, ZONE EXPANDERS, TERMINAL BLOCKS, POPITS, ETCETERA, WITH CONDUCTORS BACK TO EXISTING CONTROL PANEL ON CAMPUS. PROVIDE CONDUCTORS. REFER TO BLOCK DIAGRAM AND SPECIFICATIONS.
- MS — CEILING MOUNTED SECURITY ALARM MOTION SENSOR - SEE SPECIFICATIONS. WHERE NO CEILING OCCURS, PROVIDE 4S DP BOX AND 3/4" C. WITH CONDUCTORS, STUB CONDUIT UP 6" ABOVE NEAREST ACCESSIBLE CEILING SPACE. PROVIDE CONDUCTORS. REFER TO BLOCK DIAGRAM AND SPECIFICATIONS.
- DS — FLUSH RECESSED SECURITY ALARM DOOR CONTACT - WITH PULL STRING IN HOLLOW METAL DOOR FRAME TO ACCESSIBLE CEILING. PROVIDE CONDUCTORS AND PROVIDE 3/4"C. TO NEAREST ACCESSIBLE CEILING SPACE OR PER PLANS. REFER TO BLOCK DIAGRAM, DOOR ELEVATION DETAIL, AND SPECIFICATIONS.
- SA — SECURITY ALARM SYSTEM CONCEALED CONDUIT 3/4" (UON) WITH CONDUCTORS. REFER TO BLOCK DIAGRAM AND SPECIFICATIONS.
- K — SURFACE MOUNTED SECURITY ALARM KEYPAD WITH BACKBOX AND CONDUCTORS. REFER TO BLOCK DIAGRAM AND SPECIFICATIONS.

LIGHTING SYMBOLS

SITE LIGHTING FIXTURE SYMBOLS DEPICTED WITH CAPITAL LETTER(S) ADJACENT TO RESPECTIVE SYMBOL(S) INDICATE(S) LIGHT FIXTURE MOUNTING BASE DETAIL(S). SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE SYMBOL INFORMATION.

- 1a — LIGHTING FIXTURE CALL OUT, NUMBER(S) AND/OR UPPER CASE LETTER(S) (i.e. "1") INDICATES FIXTURE TYPE (REFER TO LIGHTING FIXTURE SCHEDULE). LOWER CASE LETTER (i.e. "a") ADJACENT TO FIXTURE TYPE INDICATES BALLAST OPTION (SEE GENERAL LIGHTING FIXTURE SCHEDULE NOTES).
- J — INDICATES FINAL CONNECTION TO A LIGHTING FIXTURE, NUMBER OF CONDUCTORS AS REQUIRED.

LIGHTING CONTROL SYMBOLS

SEE THE DISTRIBUTED LIGHTING CONTROL (DLCS) SPECIFICATIONS AND SEQUENCE OF OPERATIONS (SOO) FOR MORE INFORMATION.

- LOW VOLTAGE WIRING INTERCONNECTING DLCS COMPONENTS AS REQUIRED. SEE DLCS SPECIFICATIONS FOR MORE INFORMATION.
- WALL MOUNTED DIMMER. SEE SINGE POLE SWITCH SYMBOL FOR RELATED SUBSCRIPTS. QUANTITY OF ADJACENT LOWER CASE LETTERS INDICATES QUANTITY OF DIMMERS REQUIRED. PROVIDE DIMMER TYPE TO MATCH INDICATED BALLAST TYPE AND CONTROL REQUIREMENTS.
- WALL MOUNTED STAND ALONE OCCUPANCY SENSOR.
- WALL MOUNTED SYSTEM-BASED OCCUPANCY SENSOR.
- 1-WAY DIRECTIONAL CEILING MOUNTED, SYSTEM-BASED OCCUPANCY SENSOR.
- 2-WAY DIRECTIONAL CEILING MOUNTED, SYSTEM-BASED OCCUPANCY SENSOR.
- LOW VOLTAGE MOMENTARY SWITCHES, WALL MOUNTED, FOR MANUAL ON/OFF SWITCHING, DIMMING, AND OVERRIDE CONTROL OF LIGHTING.
- AUTOMATIC SWITCHING/STEP-DIMMING DAYLIGHTING CONTROLLER USED TO SWITCH OFF LIGHTS WHEN SUFFICIENT NATURAL LIGHT IS PRESENT. REFER TO THE DLCS SOO FOR TARGET ILLUMINATION VALUE.
- AUTOMATIC CONTINUOUS DIMMING DAYLIGHTING CONTROLLER USED TO DIM LIGHTS WHEN SUFFICIENT NATURAL LIGHT IS PRESENT. REFER TO THE DLCS SOO FOR TARGET ILLUMINATION VALUE.

LIGHTING CONTROL SYMBOL SUPERSCRIPT & SUBSCRIPT KEY:

1. "y" INDICATES THAT SWITCH LEG "y" TO BE CONFIGURED PER THE SOO. ADJACENT LOWER CASE LETTERS INDICATES QUANTITY OF SWITCHLEGS TO BE CONTROLLED. EXACT CONTROL FUNCTION IS DETERMINED BY THE BALLAST/DRIVER/FIXTURE TYPE.
2. ADJACENT UPPER CASE LETTER(S) INDICATE THE FOLLOWING:

   AV INDICATES CONNECTION TO A/V CONTROL SYSTEM.
   DM INDICATES DUAL MODE CONTROL AT CORRIDORS, STAIRWELLS AND WAREHOUSE AISLEWAYS
   H INDICATES CONNECTION TO HVAC SYSTEM CONTROLS VIA CONTROLLED DRY-CONTACT CLOSURE.
   K INDICATES LOCKING SWITCH FOR THE SUBSEQUENT LOWER CASE LETTER.
   P INDICATES CONNECTION TO MOVEABLE PARTITION INTERFACE, SENSOR AND STATUS INDICATOR.
   V INDICATES VANDAL RESISTANT SWITCH.
3. ADJACENT LOWER CASE LETTER(S) INDICATE SWITCH LEG(S) CONTROLLED EXCEPT WHERE "DM" INDICATES DUAL MODE CONTROL SWITCH.
4. ADJACENT "+, ++ AND *" INDICATES PORTION OF SWITCHLEG CONTROLLED BY SENSOR WHERE "+" INDICATES PRIMARY SIDELIT DAYLIT ZONE, "++" INDICATES SECONDARY SIDELIT DAYLIT ZONE, AND "*" INDICATES SKYLIT DAYLIT ZONE.

BRANCH CIRCUIT SYMBOLS

- A-1,3,5 — HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS. HASH MARKS INDICATE NUMBER OF CONDUCTORS IN CONDUIT RUN, #12 AWG MINIMUM UNLESS OTHERWISE NOTED.
- A-1&3&5 — HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS WITH SEPARATE NEUTRALS. "&" INDICATES SEPARATE NEUTRALS.
- A-1+3+5 — HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS. "+" INDICATES SEPARATE #10 NEUTRAL THROUGHOUT BRANCH CIRCUIT. HASH MARK "/" INDICATES AN ISOLATED GROUND CONDUCTOR.
- CONCEALED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM.
- CONDUIT OR BRANCH CIRCUIT CONCEALED BELOW GRADE, 3/4" CONDUIT MINIMUM WITH (2) 12 AWG CONDUCTORS MINIMUM AND A CODE SIZED EQUIPMENT GROUND.
- SURFACE-MOUNTED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM.
- TANDEM WIRING CONNECTION.
- CONDUIT STUB OUT, CAP, MARK AND RECORD ON AS-BUILT DRAWINGS
- CONDUIT CONTINUATION.
- FLEXIBLE CONNECTION AS REQUIRED. NUMBER OF CONDUCTORS AS REQUIRED. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
- CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION DOWN WALL TO FLOOR BELOW
- CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION UP WALL TO FLOOR ABOVE

FLOOR BOX / SPECIALTY WALL BOX / PEDESTAL BOX SYMBOLS

- ON-GRADE FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX SCHEDULE, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.
- ABOVE GRADE POKE-THRU DEVICE. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX SCHEDULE, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.
- RECESSED, ADJUSTABLE DEPTH, FLAT PANEL TV/DISPLAY WALL BOX WITH FLUSH GROMMETED COVER PANEL (CHIEF #PAC525F) AND MINIMUM OF (1) 1-1/4"C.O. FROM TOP-MOUNTED L.V. CONDUIT ENTRY BOX TO ACCESSIBLE CEILING. SEE PLANS FOR ANY ADDITIONAL CONDUIT REQUIREMENTS. PROVIDE ADDITIONAL L.V. AND LINE VOLTAGE CONDUIT ENTRY BOXES AS REQUIRED TO ACCOMPLISH WALL BOX CONFIGURATION DEPICTED ON PLANS. FLUSH GROMMETED COVER SHALL BE WHITE, BLACK OR CUSTOM COLOR PER ARCHITECT. WHEN FIELD CONDITIONS PROHIBIT INSTALLATION OF THIS DEVICE (SUCH AS WALL STUD/CAVITY DEPTH OF LESS THAN 2.5" ETC), CONFIRM VIA WRITTEN RFI THE INSTALLATION OF A TRADITIONAL POWER AND DATA RECEPTACLE INSTALLATION ALONG SIDE CCTV/AV JUNCTION BOX CONSISTING OF 2-GANG DEEP JUNCTION BOX/2-GANG RING WITH 1-1/4"C.O. TO ACCESSIBLE CEILING IN ADDITION TO ANY OTHER CONDUIT REQUIREMENTS DEPICTED ON PLANS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHT.
- SINGLE OR DUAL SERVICE RECESSED EXTERIOR WALL BOX - TYPE "WP-A". PROVIDE DEVICES PER PLAN. EACH LV OR UNUSED COMPARTMENT SHALL BE EQUIPPED WITH A 1"C.O. TO THE NEAREST ACCESSIBLE CEILING SPACE U.O.N. SEE EXTERIOR DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.
- SINGLE OR DUAL SERVICE EXTERIOR PEDESTAL - TYPE "WP-C". PROVIDE DEVICES PER PLAN. SEE EXTERIOR DETAILS AND SPECIFICATIONS FOR MORE INFORMATION. ARROW DENOTES DEVICE DOOR LOCATION.

POWER SYMBOLS

ALL RECEPTACLE OUTLETS SHOWN WITH A DIAGONAL SLASH SHALL BE CONTROLLED BY OCCUPANCY SENSOR OR LIGHTING CONTROL PANEL. SEE DISTRIBUTED LIGHTING CONTROLS FOR ADDITIONAL REQUIREMENTS. WHERE DOUBLE DUPLEX RECEPTACLE OUTLETS ARE INDICATED AS CONTROLLED, ONLY A SINGLE DUPLEX RECEPTACLE OUTLET (NON-IG, NON-GCFI TYPE) SHALL BE CONTROLLED. WITHIN ANY CONTROLLED DUPLEX RECEPTACLE OUTLET, ONLY ONE RECEPTACLE SHALL BE CONTROLLED. NOTE THAT FOR FLOOR BOXES OR POKE-THRU DEVICES, THE ASSOCIATED CONTROL RELAY MAY NEED TO BE LOCATED WITHIN THE ELECTRICAL ROOM WHERE THE CONTROLLED CIRCUIT ORIGINATES.

- R_a — OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLE RELAY. WHERE LETTER DESIGNATION "a" REPRESENTS OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM CONTROL ZONE. SEE THE DISTRIBUTED LIGHTING CONTROL SPECIFICATION FOR MORE INFORMATION.
- DUPLEX RECEPTACLE, WALL MOUNTED.
- DUPLEX RECEPTACLE, WALL MOUNTED.
- DUPLEX, GFCI RECEPTACLE, WALL MOUNTED. WP INDICATES WEATHERPROOF, A, B OR C INDICATES THE TYPE OF COVER, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
- DOUBLE DUPLEX, WALL MOUNTED, WITH (1) GFCI RECEPTACLE AND (1) DUPLEX RECEPTACLE CONNECTED ON LOAD SIDE OF GFCI. WP INDICATES WEATHERPROOF, A, B OR C INDICATES THE TYPE OF COVER, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
- DUPLEX RECEPTACLE, ONE HALF SWITCHED, WALL MOUNTED.
- DUPLEX, ISOLATED GROUND RECEPTACLE, WALL MOUNTED.
- 1,3 / 1,3a — COMBINATION DOUBLE DUPLEX: ONE ISOLATED GROUND DUPLEX RECEPTACLE AND ONE DUPLEX RECEPTACLE, WALL MOUNTED.
- COMBINATION DOUBLE DUPLEX: TWO ISOLATED GROUND RECEPTACLES, WALL MOUNTED.
- SIMPLEX RECEPTACLE, WALL MOUNTED.
- SPECIAL RECEPTACLE, WALL MOUNTED. REFER TO PLAN NOTES.
- DUPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
- DOUBLE DUPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
- DUPLEX RECEPTACLE, ONE HALF SWITCHED, FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
- DUPLEX, ISOLATED GROUND RECEPTACLE, FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
- 1,3 / 1,3a — COMBINATION DOUBLE DUPLEX: ONE ISOLATED GROUND DUPLEX RECEPTACLE AND ONE DUPLEX RECEPTACLE, MOUNTED FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN FLOOR BOX SYMBOL.
- COMBINATION DOUBLE DUPLEX FLUSH IN CEILING: TWO ISOLATED GROUND RECEPTACLES - MOUNT FLUSH IN FLOOR WHEN INDICATED IN FLOOR BOX SYMBOL.
- SIMPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
- SPECIAL RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
- DUPLEX RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.
- DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.
- DUPLEX, GFCI RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH. WP INDICATES WEATHERPROOF, A, B OR C INDICATES THE TYPE OF COVER, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
- DOUBLE DUPLEX, WALL MOUNTED 6-INCHES ABOVE COUNTER OR SPLASH, WITH (1) GFCI RECEPTACLE AND (1) DUPLEX RECEPTACLE CONNECTED ON LOAD SIDE OF GFCI. WP INDICATES WEATHERPROOF, A, B OR C INDICATES THE TYPE OF COVER, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
- DUPLEX RECEPTACLE, BOTTOM HALF SWITCHED, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.
- DUPLEX, ISOLATED GROUND RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.
- 1,3 / 1,3a — COMBINATION DOUBLE DUPLEX: ONE ISOLATED GROUND DUPLEX RECEPTACLE AND ONE DUPLEX RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.
- COMBINATION DOUBLE DUPLEX: TWO ISOLATED GROUND DUPLEX RECEPTACLES, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.
- SIMPLEX RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.
- SPECIAL RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH. REFER TO PLAN NOTES.
- WP-B — WET LOCATION-LISTED (RAINTITE-IN-USE) RECEPTACLE - SEE ELECTRICAL SPECIFICATION FOR ADDITIONAL INFORMATION.
- WP-D — DAMP LOCATION-LISTED (NOT-RAINTITE-IN-USE) RECEPTACLE - SEE ELECTRICAL SPECIFICATION FOR ADDITIONAL INFORMATION.
- DUPLEX RECEPTACLES WITH TWO 5V, 3.6A USB CHARGING PORTS. PROVIDE COLOR AS REQUIRED IN 15A OR 20A CONFIGURATION AND/OR TAMPER RESISTANT AND/OR HOSPITAL GRADE AS REQUIRED BY PLANS AND THE WIRING DEVICES SECTION OF THE GENERAL ELECTRICAL SPECIFICATIONS. (PASS & SEYMOUR OR EQUAL BY HUBBELL OR LEVITON.)
- QUAD RECEPTACLES WITH TWO 5V, 3.6A USB CHARGING PORTS. PROVIDE COLOR AS REQUIRED IN 15A OR 20A CONFIGURATION AND/OR TAMPER RESISTANT AND/OR HOSPITAL GRADE AS REQUIRED BY PLANS AND THE WIRING DEVICES SECTION OF THE GENERAL ELECTRICAL SPECIFICATIONS. (PASS & SEYMOUR OR EQUAL BY HUBBELL OR LEVITON.)
- J — JUNCTION BOX, WALL MOUNTED AT +18-INCHES A.F.F. OR AS NOTED. 4S/DP MINIMUM OR AS REQUIRED BY N.E.C. OR CEC, WHERE ADOPTED.
- J — JUNCTION BOX, MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN. 4S/DP MINIMUM OR AS REQUIRED BY N.E.C. OR CEC, WHERE ADOPTED.
- J — JUNCTION BOX, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH. 4S/DP MINIMUM OR AS REQUIRED BY N.E.C., OR CEC, WHERE ADOPTED.
- J — JUNCTION BOX, 4S MINIMUM OR AS REQUIRED BY N.E.C., OR CEC, WHERE ADOPTED. MOUNTED IN ACCESSIBLE CEILING SPACE PER PLAN FOR FLEXIBLE CONNECTION TO PRE-WIRED FURNITURE SYSTEM. MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL. WHEN SHOWN WITH A DIAGONAL SLASH, THE LAST GENERAL RECEPTACLE CIRCUIT ON THE HOME-RUN CALL OUT SHALL BE CONTROLLED BY THE OCCUPANCY SENSOR. COORDINATE CONTROLLED CIRCUIT CONNECTION REQUIREMENTS WITH FURNITURE SYSTEM MANUFACTURER PRIOR TO ROUGH-IN. SEE DISTRIBUTED LIGHTING CONTROLS FOR ADDITIONAL REQUIREMENTS.
- J / X — JUNCTION BOX, WALL MOUNTED AT +18-INCHES A.F.F., 4S/DP MINIMUM OR AS REQUIRED BY N.E.C., OR CEC, WHERE ADOPTED, FOR FLEXIBLE CONNECTION TO PREWIRED FURNITURE SYSTEM. WHEN SHOWN WITH A DIAGONAL SLASH, THE LAST GENERAL RECEPTACLE CIRCUIT ON THE HOME-RUN CALLOUT SHALL BE CONTROLLED BY THE OCCUPANCY SENSOR. COORDINATE CONTROLLED CIRCUIT CONNECTION REQUIREMENTS WITH FURNITURE SYSTEM MANUFACTURER PRIOR TO ROUGH-IN. SEE DISTRIBUTED LIGHTING CONTROLS FOR ADDITIONAL REQUIREMENTS.
- SURFACE MOUNTED MULTI-OUTLET ASSEMBLY. REFER TO GENERAL PRODUCT SPECIFICATIONS. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION.
- T — THERMOSTAT OUTLET BOX, PROVIDE 1/2" C.O. TO RESPECTIVE MECHANICAL UNIT.
- EXHAUST FAN, OR MOTOR LOAD. REFER TO MECHANICAL, PLUMBING OR KITCHEN DRAWINGS FOR SPECIFIC LOAD REQUIREMENTS OR AS NOTED.
- FLUSH MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.
- SURFACE MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.
- DISTRIBUTION SWITCHBOARD. REFER TO SINGLE LINE DIAGRAM.
- T — TRANSFORMER, REFER TO SINGLE LINE DIAGRAM.
- F — FUSED DISCONNECT SWITCH, HP RATED, OR COMBINATION MOTOR STARTER/DISCONNECT SWITCH WITH FUSES PER EQUIPMENT MANUFACTURER AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT AND STARTER SIZES.
- NON-FUSED DISCONNECT SWITCH, HP RATED AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT SIZES.
- M — UTILITY COMPANY METER. PROVIDE "CT's" AND "PT's" AS REQUIRED, REFER TO SINGLE LINE DIAGRAM

REV. # DATE

23 PROVIDE NEW FLUSH-IN-GRADE 2'X3'XDEPTH AS REQUIRED CONCRETE VAULT/PULL BOX WITH BOLT-DOWN TRAFFIC RATED COVER AT EXISTING IRRIGATION CONTROLLER LOCATION. PERMANENTLY ENGRAVE LID "IRRIGATION". SPLICE AND EXTEND EXISTING IRRIGATION CONTROL WIRING TO SERVE RELOCATED IRRIGATION CONTROLLER.

24 PROVIDE NEW FLUSH-IN-GRADE 2'X3'XDEPTH AS REQUIRED CONCRETE VAULT/PULL BOX WITH BOLT-DOWN TRAFFIC RATED COVER AT NEW IRRIGATION CONTROLLER LOCATION. PERMANENTLY ENGRAVE LID "IRRIGATION". EXTEND EXISTING IRRIGATION CONTROL WIRING FROM EXISTING LOCATION TO NEW CONTROLLER LOCATION. PROVIDE NEW CONDUIT, CONDUCTORS, SPLICES, AND ASSOCIATED MATERIALS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.

13 PROVIDE THE FOLLOWING UNDERGROUND CONDUITS WITH CONDUCTORS AS SPECIFIED:
(1) 2"C FA
(1) 2"C SECURITY

14 PROVIDE THE FOLLOWING UNDERGROUND CONDUITS WITH CONDUCTORS AS SPECIFIED:
(1) 2"C DATA

15 ROUTE 2"C DATA CONDUIT TO EXISTING IDF LOCATED AT G100B.

16 EXISTING FIRE ALARM CONDUIT TO REMAIN PROTECTED IN PLACE.

17 NEW FIRE ALARM CONDUCTORS SHALL BE ROUTED THROUGH EXISTING CONDUIT. VERIFY CONDUIT FILL AND CODE COMPLIANCE PRIOR TO INSTALLATION.

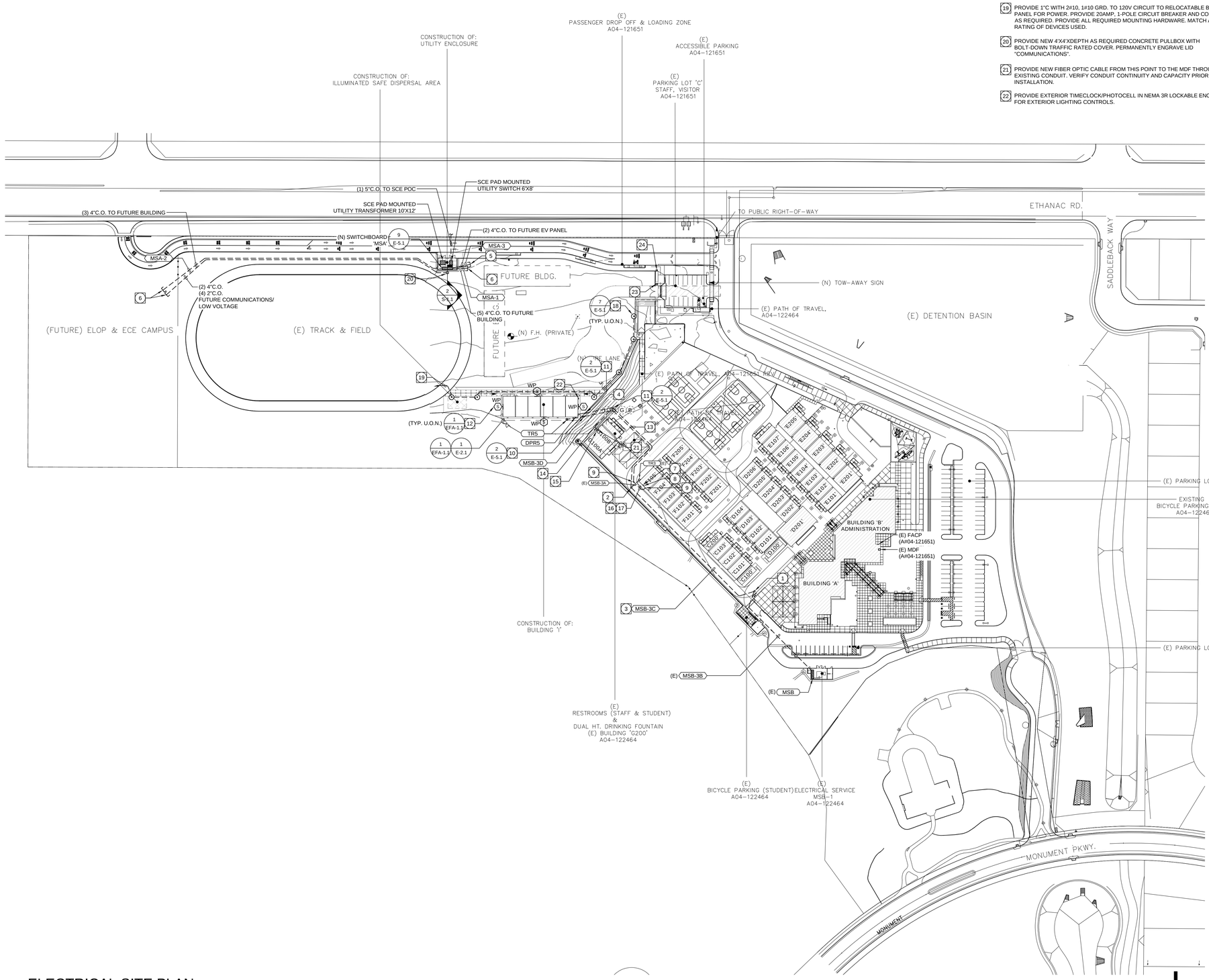
18 PROVIDE 14'-2" ROUND POST-TOP LED LIGHT FIXTURE WITH 4" ROUND POLE. 70CRI, 0-10V DIMMING, 120-277V, 71W, 4000K, TYPE III WIDE DISTRIBUTION. NLS LIGHTING MODEL HRZ-1-T3-32L-7-40K7-UNV-PTXX-BRZ. STEEL POLE RSSP-12-4R-11G-9BC-T4R-BRZ-3430.

19 PROVIDE 1"C WITH 2#10, 1#10 GRD. TO 120V CIRCUIT TO RELOCATABLE BUILDING PANEL FOR POWER. PROVIDE 20AMP, 1-POLE CIRCUIT BREAKER AND CONNECT AS REQUIRED. PROVIDE ALL REQUIRED MOUNTING HARDWARE. MATCH A.I.C. RATING OF DEVICES USED.

20 PROVIDE NEW 4'X4'XDEPTH AS REQUIRED CONCRETE PULLBOX WITH BOLT-DOWN TRAFFIC RATED COVER. PERMANENTLY ENGRAVE LID "COMMUNICATIONS".

21 PROVIDE NEW FIBER OPTIC CABLE FROM THIS POINT TO THE MDF THROUGH EXISTING CONDUIT. VERIFY CONDUIT CONTINUITY AND CAPACITY PRIOR TO INSTALLATION.

22 PROVIDE EXTERIOR TIMECLOCK/PHOTOCELL IN NEMA 3R LOCKABLE ENCLOSURE FOR EXTERIOR LIGHTING CONTROLS.



ELECTRICAL SITE PLAN

SPECIFIC PLAN NOTES:

1 EXISTING PULLBOX TO REMAIN PROTECTED IN PLACE. SPLICE AND EXTEND EXISTING 3#4/0, 1#6G. COILED INSIDE OF EXISTING PULLBOX.

2 INTERCEPT EXISTING 4" FEEDER WITH NEW 2'X3'XDEPTH AS REQUIRED CONCRETE PULLBOX WITH BOLT-DOWN TRAFFIC RATED COVER. PERMANENTLY ENGRAVE LID "POWER". BACKFEED EXISTING 150KVA TRANSFORMER 'TR3' WITH 3-350MCM, #4G. NEW 2"C - 3#4/0, #6G TO SPLIT FROM THIS JUNCTION BOX TO TRANSFORMER 'TR5'.

3 PULL OUT EXISTING 3-350MCM, #4G IN EXISTING 4"C. PULL IN THE EXISTING 3-350MCM, #4G AND ADDITIONAL 3#4/0, #6G (MSB-3C) IN THE SAME EXISTING 4"C.

4 PROVIDE THE FOLLOWING UNDERGROUND CONDUITS WITH CONDUCTORS AS SPECIFIED:
(1) 2"C FA
(1) 2"C DATA
(1) 2"C SECURITY
(1) 2"C SPARE

5 STUB OUT CONDUITS FOR CONNECTION TO FUTURE EV PANEL. PROTECT CONDUITS FROM WATER INFILTRATION, CAP AND MARK "FOR FUTURE USE".

6 STUB OUT CONDUITS FOR CONNECTION TO FUTURE BUILDINGS. PROTECT CONDUITS FROM WATER INFILTRATION, CAP AND MARK "FOR FUTURE USE".

7 EXISTING FIRE ALARM VOICE EVACUATION AMPLIFIER PANEL 'AMPC' (A#04-122464).

8 EXISTING FIRE ALARM NAC EXPANDER PANEL 'RPSC' (A#04-122464)

9 EXISTING FIRE ALARM PULL BOX TO REMAIN PROTECTED IN PLACE (A#04-122464).

10 PROVIDE NEW 2'X3'XDEPTH AS REQUIRED CONCRETE PULLBOX WITH BOLT-DOWN TRAFFIC RATED COVER. PERMANENTLY ENGRAVE LID "POWER".

11 PROVIDE NEW 2'X3'XDEPTH AS REQUIRED CONCRETE PULLBOX WITH BOLT-DOWN TRAFFIC RATED COVER. PERMANENTLY ENGRAVE LID "FIRE ALARM/LOW VOLTAGE".

12 EXTERIOR 2-WATT FIRE ALARM SPEAKER SHOWN FOR REFERENCE ONLY. SEE ENLARGED FIRE ALARM PLAN FOR EXACT SPEAKER LOCATIONS.

SITE PLAN GENERAL NOTES:

1. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
2. CALL UNDERGROUND SERVICE ALERT (USA) AT 1 (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4" - U.O.N.
4. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG. - U.O.N.
5. ALL SITE BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR THAT, AT MINIMUM, MATCHES THE SIZE OF THE ASSOCIATED BRANCH CIRCUIT CONDUCTOR. WHERE MULTIPLE BRANCH CIRCUITS ARE ROUTED/GROUPED TOGETHER, THE EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH THE SIZE OF THE LARGEST BRANCH CIRCUIT CONDUCTOR IN THE GROUP.
6. ALL ELECTRICAL EQUIPMENT MOUNTED OUTDOORS SHALL BE WEATHERPROOF (NEMA #3R).
7. ALL CONDUIT ONLY SHALL BE PROVIDED WITH A NYLON PULL STRING.
8. SEE ARCHITECTURAL/LANDSCAPE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
9. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

SITE UTILITY PLAN CONSTRUCTION NOTES:

THESE NOTES ESTABLISH MINIMUM QUALITY LEVELS AND COORDINATION REQUIREMENTS. RESPECTIVE UTILITY COMPANY PLANS AND REQUIREMENTS TAKE PRECEDENCE OVER THESE NOTES WITH REGARD TO RESPECTIVE UTILITY COMPANY CONDUIT AND UNDERGROUND STRUCTURE SYSTEMS.

1. CALL UNDERGROUND SERVICE ALERT (USA) AT (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
2. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
3. VAULTS, MAINTENANCE HOLES (MH's), FORMERLY KNOWN AS MANHOLES, AND CONDUITS SHALL MAINTAIN A MINIMUM COVER OF 24" BELOW FINAL SURFACE AT ALL CONDITIONS. INCLUDE ALL COSTS IN BASE BID TO MEET UTILITY COMPANY REQUIREMENTS WHICH MAY REQUIRE GREATER MINIMUM CONDUIT DEPTHS.
4. VAULTS, MH's AND PULLBOXES (PB's) SHALL BE EQUIPPED WITH KNOCKOUT PANELS OR PRE-CAST INDIVIDUAL CONDUIT OPENINGS. CONDUITS SHALL ONLY ENTER AND EXIT ON END/SHORT WALLS. CONDUITS MAY NOT ENTER AND EXIT ON SIDE/LONG WALLS, CEILINGS OR FLOORS UNLESS OTHERWISE NOTED.
5. CUT DUCTS FLUSH WITH INTERIOR VAULT/MH/PB WALL.
6. GROUT AROUND DUCT ENTRANCES ON VAULT/MH/PB WALLS.
7. SLURRY BACKFILL AROUND DUCTS WITHIN 5 FEET OF VAULT/MH/PB TO PREVENT SHEARING.
8. CONDUITS PASSING UNDER THE BUILDING PERIMETER SHALL BE ENCASED IN LIGHTWEIGHT CONCRETE OR WATER-IMPERVIOUS CLAY TO PREVENT WATER INFILTRATION. SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. CONDUIT BEND RADIUS FOR BUILDING ENTRANCES AND AT POLES SHALL BE A MINIMUM OF 24" FOR CONDUITS WITH LESS THAN 2" INTERNAL DIAMETER AND A MINIMUM OF 48" FOR CONDUITS WITH MORE THAN 2" INTERNAL DIAMETER.
10. PREFERRED CONDUIT SWEEP RADIUS BETWEEN VAULTS IS 25 FEET. UNDER NO CIRCUMSTANCES SHALL THE CONDUIT SWEEP RADIUS BE LESS THAN 12.5 FEET. MAXIMUM OF 90 DEGREES PER SWEEP AND LIMITED TO NO MORE THAN (2) 90 DEGREE SWEEPS BETWEEN VAULTS.
11. VAULTS/MH's/PB's ARE TO BE EQUIPPED WITH RACKING, GROUNDING LUGS, AND BOLT-DOWN LIDS UNLESS OTHERWISE NOTED.
12. VAULTS AND MH's TO BE EQUIPPED WITH ROUND COVERS, EXTENSION RINGS AS REQUIRED, LADDERS AND (3) SEGMENTS OF 6 FOOT HIGH CABLE RACKING PER EACH LONG WALL.
13. LABEL ALL NON-UTILITY COMMUNICATION VAULT/MH/PB COVERS WITH "COMMUNICATIONS" UNLESS OTHERWISE NOTED ON PLANS.
14. COORDINATE FINAL VAULT/MH/PB OPENING HEIGHT WITH G.C. PRIOR TO ROUGH-IN TO ENSURE FINAL GRADE DOES NOT SLOPE INTO VAULT/MH/PB OPENING.
15. CONTRACTOR TO PROVIDE A MINIMUM OF 8" DEEP COMPACTED 1/2" DIAMETER GRAVEL, UNDER ALL VAULTS, MH's OR PB's TO ENSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE ON THE FLOOR AND BE ABLE TO DISSIPATE WATER OUT OF THE VAULT, MH OR PB.
16. ALL VAULTS/MH's/PB's WITHOUT GROUNDING LUGS SHALL HAVE AN 8' x 3/4" COPPER GROUND ROD DRIVEN THRU THE FLOOR TO ALLOW GROUNDING OF ITEMS WITHIN.
17. ALL VAULTS/MH's/PB's SHALL BE PROVIDED WITH TRAFFIC RATED COVERS WHEN LOCATED IN PAVED AREAS UTILIZED FOR VEHICLE TRAFFIC.
18. IF THE WATER OR MOISTURE BARRIER ON OR NEAR THE FOUNDATION OF A BUILDING IS DISTURBED IN ANY MANNER BY EXCAVATION OR OTHER CONSTRUCTION WORK, THE MOISTURE BARRIER MUST BE REPAIRED FOLLOWING THE RECOMMENDATIONS OF THE MANUFACTURER OF THE ORIGINAL BARRIER PRODUCT.
19. THE CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS TO COMPLY WITH ALL REQUIREMENTS FOR CONFINED SPACE ENTRY PER THE OSHA REQUIREMENTS 29 CFR-1910.146, 29 CFR-1910.268, ETC. DURING ANY CONFINED SPACE ENTRY.
20. ANY DUCTS LEAVING A VAULT, MH OR PB ROUTED INTO A FACILITY SHALL BE PLUGGED AT EACH END USING REMOVABLE MECHANICAL PLUGS DESIGNED TO PREVENT WATER AND GAS FROM ENTERING THE FACILITY.
21. SEE ELECTRICAL SPECIFICATIONS AND PLAN DETAILS FOR ADDITIONAL REQUIREMENTS REGARDING UNDERGROUND CONDUITS AND IN-GRADE VAULT/MH/PB/JUNCTION BOXES.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT DEREK C. STEMM CM NO. C34608 REN.12/27 STATE OF CALIFORNIA

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11870 Pierce Street, Suite 160
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Project Leader: Nikolas Bruno
Electrical Lead: Reid Cordry
WSP Job #: US0056491.0917

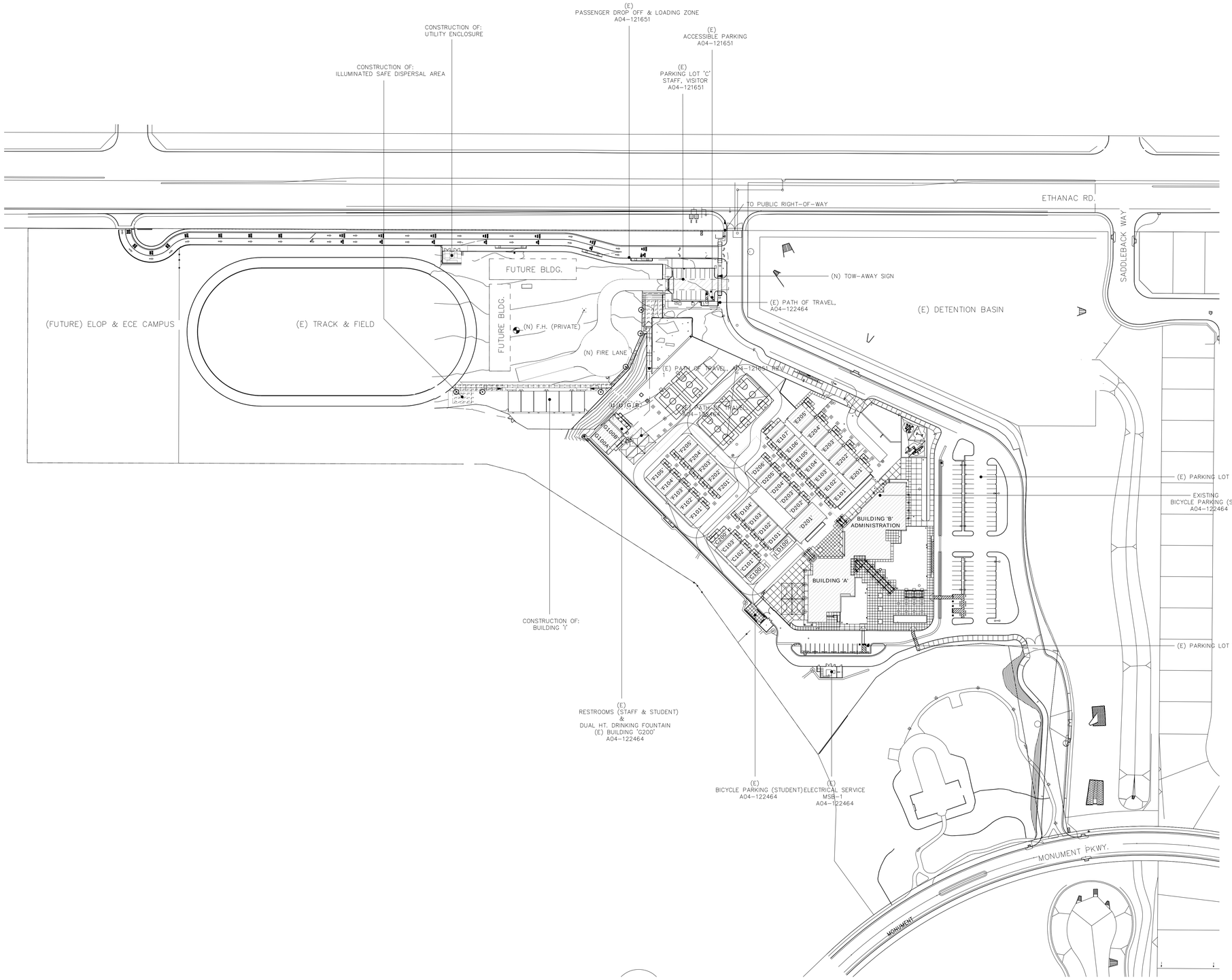
REGISTERED PROFESSIONAL ENGINEER REID W. SWEET No. E15610 Ex. 12/31/2027 ELECTRICAL STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

ELECTRICAL SITE PLAN

E-1.0

REV. # DATE



SITE PHOTOMETRIC PLAN

1

1" = 80'-0"

NOTE:

THIS LIGHTING CALCULATION REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY (IES) APPROVED METHODS.

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
SAFE DISPERSAL AREA	+	4.3 fc	14.4 fc	0.1 fc	144.0:1	43.0:1
PATH OF TRAVEL	+	4.3 fc	15.9 fc	0.1 fc	159.0:1	43.0:1

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EXPANSION (PHASE 1)
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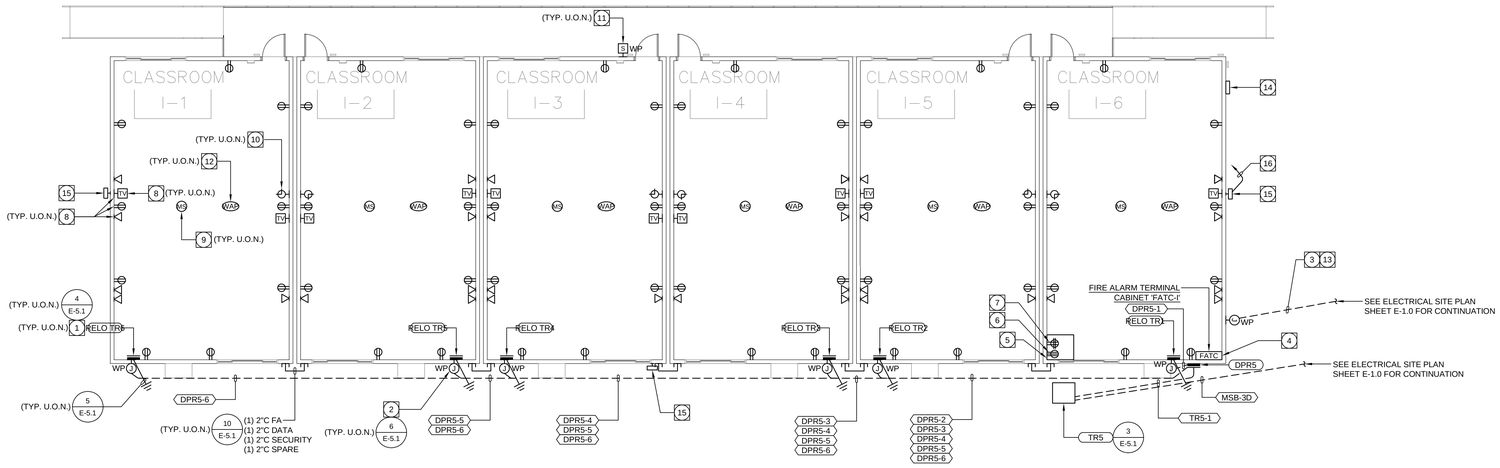
SITE PHOTOMETRIC PLAN

E-1.1

REV. # DATE



ENLARGED BUILDING I - ELECTRICAL PLAN

I n

1

1/8" = 1'-0"

PLAN NOTES:

1. PANEL BOARD TO BE PROVIDED BY RELOCATABLE BUILDING SUPPLIER. VERIFY EXACT LOCATION WITH RELOCATABLE BUILDING PLANS.
2. CONNECT TO RELOCATABLE BUILDING PANEL BY RELOCATABLE BUILDING MANUFACTURER. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
3. PROVIDE THE FOLLOWING UNDERGROUND CONDUITS WITH CONDUCTORS AS SPECIFIED:
   (1) 2"C FA
   (1) 2"C DATA
   (1) 2"C SECURITY
   (1) SPARE
4. PROVIDE 3/4"C WITH 2#12, 1#2 GRD. TO ONE (1) 120V DEDICATED CIRCUIT FOR POWER. PROVIDE ONE (1) 20AMP, 1-POLE CIRCUIT BREAKER WITH APPROVED LOCK-ON DEVICE, RED INDICATOR AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT" (NFPA 72, 10.6). CONNECT AS REQUIRED. PROVIDE ALL REQUIRED MOUNTING HARDWARE. MATCH A.I.C. RATING OF DEVICES USED.
5. CONTRACTOR FURNISHED AND INSTALLED IDF. PROVIDE COMPLETE AND OPERATIONAL INSTALLATION. SEE SPECIFICATIONS FOR MODEL NUMBER. SEE 5/E5.2 FOR MOUNTING DETAIL.
6. PROVIDE 3/4"C WITH 3#10, 1#10 GRD. TO ONE (1) 208V DEDICATED CIRCUIT FOR POWER. PROVIDE ONE (1) 30AMP, 2-POLE CIRCUIT BREAKER FOR DEDICATED IDF RECEPTACLE.
7. PROVIDE 3/4"C WITH 2#12, 1#12 GRD. TO ONE (1) 120V DEDICATED CIRCUIT FOR POWER. PROVIDE ONE (1) 20AMP, 1-POLE CIRCUIT BREAKER FOR DEDICATED IDF RECEPTACLE.
8. TV OUTLET BEHIND MONITOR PROVIDED BY MODULAR MANUFACTURER.
9. PROVIDE OPTEX FX-360 CEILING MOUNTED MOTION SENSOR TO MATCH EXISTING. PROVIDE ZONE EXPANDER, CABLING, CONDUIT, AND POWER SUPPLY AS REQUIRED FOR COMPLETE AND OPERATIONAL DMP SYSTEM.
10. PROVIDE IP RAULAND WALL MOUNTED PUBLIC ADDRESS SPEAKER/CLOCK. MATCH EXISTING. TELECENTER U ACC3011S. PROVIDE WITH CABLING BACK TO IDF.
11. PROVIDE IP BASED EXTERIOR MOUNTED PUBLIC ADDRESS SPEAKER. MATCH EXISTING. RAULAND ACC1411.
12. CONTRACTOR FURNISH AND INSTALLED WIRELESS ACCESS POINT. PROVIDE COMPLETE AND OPERATIONAL INSTALLATION. PROVIDE (2)CAT6A CABLE TERMINATED IN IDF FOR EACH. SEE SPECIFICATIONS FOR MODEL NUMBER.
13. PROVIDE NEW FIBER OPTIC CABLE BACK TO MDF ROOM. VERIFY EXISTING FIBER OPTIC CABLE ON SITE AND MATCH.
14. PROVIDE EXTERIOR TIMECLOCK/PHOTOCELL IN NEMA 3R LOCKABLE ENCLOSURE FOR EXTERIOR LIGHTING CONTROLS.
15. PROVIDE EXTERIOR WALL PACK WITH 4000K, 24.2W, UNIVERSAL VOLTAGE. ILP VIEWPOINT VMS2-3L-U-CCTS-DS-(FINISH). CONFIRM COLOR AND FINISH WITH ARCHITECT PRIOR TO ORDERING. CONFIRM MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. CONNECT THROUGH PHOTOCELL / TIMECLOCK. CONNECT POWER TO 120V 20A CIRCUIT ON PORTABLE VIA 3/4"C - 2#12, #12G. PROVIDE (1)20A 120V CIRCUIT BREAKER.
16. PROVIDE 3/4"C WITH 2#12, 1#12 GRD. TO 120V CIRCUIT TO RELOCATABLE BUILDING PANEL FOR POWER. PROVIDE 20AMP, 1-POLE CIRCUIT BREAKER AND CONNECT AS REQUIRED. PROVIDE ALL REQUIRED MOUNTING HARDWARE. MATCH A.I.C. RATING OF DEVICES USED.

POWER PLAN GENERAL NOTES:

1. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24-INCHES MINIMUM.
2. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
   a. ALL BRANCH CIRCUITS SHALL BE EMT.
   b. ALL BRANCH CIRCUITS SHALL BE ROUTED ORTHOGONALLY, NEATLY TRAINED, IN PARALLEL TO STRUCTURES OR DUCTWORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
   c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
5. EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR CEC WHERE ADOPTED, ARTICLE 300.22(C).
6. PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY A GFCI CIRCUIT BREAKER(S) WHEN RECEPTACLES ARE 50A OR LESS, 150V TO GROUND OR LESS AND ARE LOCATED WITHIN 6-FEET OF ANY SINK OR THERAPEUTIC TUB, LAUNDRY AREA, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE, LOCKER ROOM AREA, GARAGE AND BATHROOM SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED TO ENSURE PROPER GFCI FUNCTION.
7. PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
8. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

COMMUNICATIONS PATHWAYS GENERAL NOTES:

1. CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.), AND (b) CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULL BOX. SPLIT CONDUITS IN PLACE OF PULL BOXES ARE UNACCEPTABLE.
2. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
3. CONDUIT BEND RADIUS SHALL BE (a) A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2-INCHES IN DIAMETER OR LESS, AND (b) 10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2-INCHES IN DIAMETER.
4. TERMINATE CONDUIT STUBS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2-INCHES TO 3-INCHES ABOVE THE FLOOR SURFACE.
5. INSTALL BUSHINGS OR BELL ENDS AS REQUIRED ON ALL CONDUITS.
6. FLEX CONDUIT IS UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND/OR IF APPROVED IN WRITING BY THE ENGINEER.
7. ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE ELECTRICAL SPECIFICATIONS, DETAILS AND PLANS FOR ADDITIONAL CONDUIT SEALING REQUIREMENTS.
8. ALL PULL BOXES SHALL BE SIZED AND INSTALLED PER ANSI-TIA-569-C. PULL BOXES FOR IN/UNDER SLAB CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULL BOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULL BOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3R RATED. PULL BOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:

CONDUIT SIZE	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL CONDUIT
1"	4"	16"	3"	2"
2"	8"	36"	4"	5"
3"	12"	48"	5"	6"
4"	15"	60"	8"	8"

   FOR OTHER CONDUIT SIZES REFER TO ANSI/TIA-569-C TABLE 12. - LATEST PUBLISHED EDITION.
9. CONDUIT(S) SHALL EXIT A PULL BOX ON THE WALL OPPOSITE THE WALL ENTERED.
10. PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
11. PROVIDE INTERNAL/EXTERNAL GAS AND WATER TIGHT MECHANICAL SEALING/PLUGGING OF EACH BUILDING ENTRY CONDUIT AS SPECIFIED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.

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LICENSED ARCHITECT
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REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

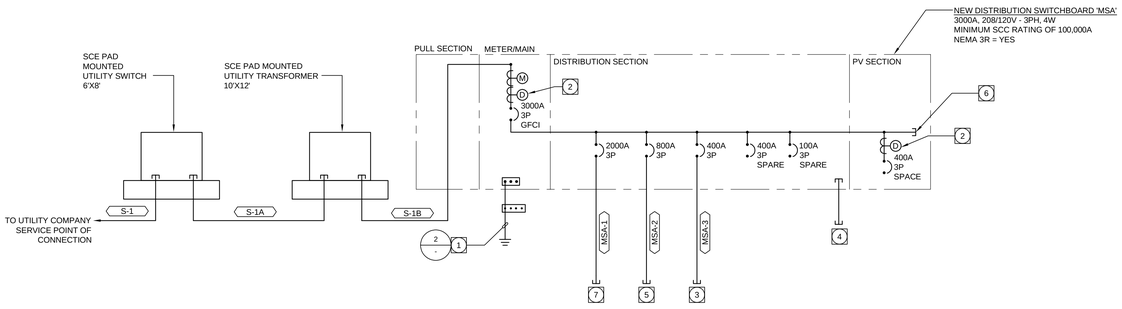
ENLARGED BUILDING I -
ELECTRICAL PLAN

E-2.1

REV. # DATE

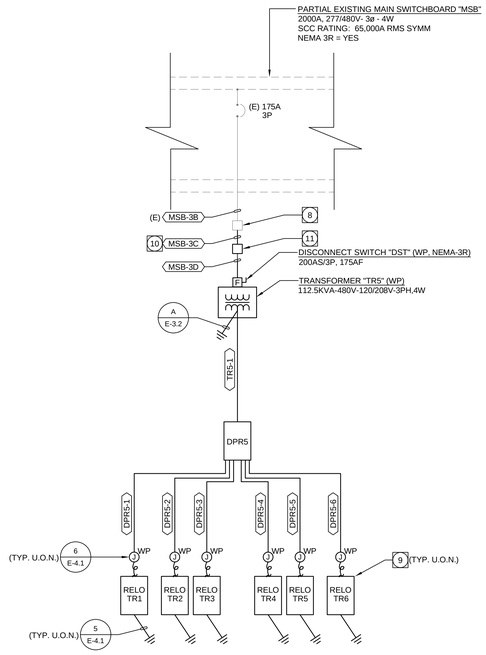
SPECIFIC SINGLE LINE NOTES:

1. SEE MAIN SYSTEM GROUNDING DETAIL FOR MORE INFORMATION.
2. PROVIDE NEW DIGITAL METER CAPABLE OF MEASURING, VOLTAGE, CURRENT, PEAK DEMAND, CURRENT DEMAND AND RECORD VALUES FOR 12 MONTH PERIOD.
3. CAP (2) 4"C.O. OUTSIDE ELECTRICAL ENCLOSURE FOR FUTURE EV CHARGER PANEL.
4. PROVIDE (3) 4"C.O. , (2) 2"C.O. AND (4) 1"C.O. SPARE TO LANDSCAPE AREA OUTSIDE OF ELECTRICAL ENCLOSURE FOR FUTURE USE.
5. PROVIDE (3) 4"C.O. SPARE TO LANDSCAPE AREA OUTSIDE OF ELECTRICAL ENCLOSURE FOR FUTURE 10KSQFT BUILDING WEST OF THE TRACK.
6. SPACE AT END FOR FUTURE BUS EXTENSION.
7. PROVIDE (5) 4"C.O. SPARE TO LANDSCAPE AREA OUTSIDE OF ELECTRICAL ENCLOSURE FOR FUTURE 32KSQFT BUILDING EAST.
8. EXISTING PULLBOX TO REMAIN PROTECTED IN PLACE. SPLICE AND EXTEND EXISTING 3#4/0, 1#6G. COILED INSIDE OF EXISTING PULLBOX.
9. CONNECT TO RELOCATABLE BUILDING PANEL PER MANUFACTURER'S REQUIREMENTS.
10. PULL OUT EXISTING 3-350MCM, #4G IN EXISTING 4"C. PULL IN THE EXISTING 3-350MCM, #4G AND ADDITIONAL 3#4/0, #6G (MSB-3C) IN THE SAME EXISTING 4"C.
11. INTERCEPT EXISTING 4" FEEDER WITH NEW 2'X3'XDEPTH AS REQUIRED CONCRETE PULLBOX WITH BOLT-DOWN TRAFFIC RATED COVER. PERMANENTLY ENGRAVE LID "POWER". BACKFEED EXISTING 150KVA TRANSFORMER 'TR3' WITH 3-350MCM, #4G. NEW 2"C - 3#4/0, #6G TO SPLIT FROM THIS JUNCTION BOX TO TRANSFORMER 'TRS'.



SINGLE LINE DIAGRAM

SCALE: NTS — 1



NOTE:
EXISTING SOURCE OF POWER HAS BEEN INVESTIGATED AND IS ADEQUATE FOR THE NEW ADDITIONAL LOAD AS INDICATED ON DRAWINGS.

GENERAL SINGLE LINE DIAGRAM NOTES:

1. ALL SWITCHGEAR SHALL BE SQUARE D OR EQUAL BY CUTLER-HAMMER, G.E., SIEMENS, IEM, OR Z-POWER AND DISTRIBUTION.
2. ALL ITEMS DEPICTED ON THE SINGLE LINE DRAWINGS SHALL BE ASSUMED AS NEW U.O.N.
3. ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE OVERALL RATING OF THE EQUIPMENT. SERIES-RATING OF DEVICES WITHIN A PIECE OF EQUIPMENT IS NOT ALLOWED. SEE SPECIFICATIONS FOR MORE INFORMATION.
4. ALL SWITCHBOARDS, SWITCHGEAR, AND PANELBOARDS SHALL HAVE A SHORT-CIRCUIT CURRENT RATING NOT LESS THAN THE AVAILABLE FAULT CURRENT. THE AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED SHALL BE FIELD MARKED ON THE ENCLOSURE AT THE POINT OF SUPPLY.
5. SERIES RATED DEVICES SHALL HAVE BEEN INVESTIGATED BY U.L. IN COMBINATION WITH THE END USE EQUIPMENT AND IN THE EQUIPMENT IN WHICH THESE DEVICES ARE USED AND SHALL BE MARKED WITH A SERIES RATING. ALL EQUIPMENT SHALL BE MARKED IN ACCORDANCE WITH NEC (OR CEC-WHERE ADOPTED) REQUIREMENTS. SEE SPECIFICATIONS FOR MORE INFORMATION. WHERE SERIES RATINGS ARE ALLOWED, THE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE A SERIES COMBINATION RATING WHICH SHALL BE READILY VISIBLE AND STATE THE FOLLOWING:

   CAUTION - SERIES COMBINATION SYSTEM RATED AT ??,???
   AMPERES. USE ONLY IDENTIFIED REPLACEMENT COMPONENTS IN THIS SYSTEM.

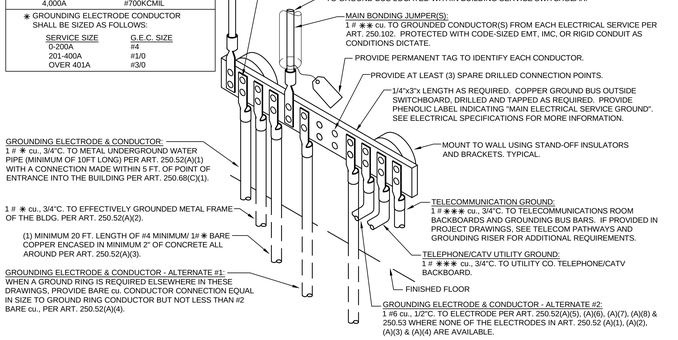
   WHERE ??,??? REPRESENTS AVAILABLE FAULT CURRENT. SEE SPECIFICATIONS FOR PLACARD REQUIREMENTS.
6. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
7. ALL SERVICE ENTRANCE EQUIPMENT RATED AT 400A OR GREATER SHALL BE PROVIDED WITH A BACKFEED-RATED, SOLID STATE MAIN OVERCURRENT DEVICE AND BUSSING RATED AT 100% OPERATION (1000A/sq.in. FOR CU, 750A/sq.in. FOR AL). NO HEAT RISE RATED BUSSING ALLOWED. NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARDS LARGER THAN 600A SHALL BE PROVIDED WITH BUSSING RATED FOR 100% OPERATION - SEE SPECIFICATION FOR CIRCUIT BREAKER REQUIREMENTS. ALL NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARD MAIN OVERCURRENT DEVICES SHALL BE BACKFEED-RATED. BACKFEED RATINGS SHALL COMPLY WITH NEC, OR CEC WHERE ADOPTED, 710.15 (E) AND 705.12(B)(4). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING CIRCUIT BREAKERS.
8. PROVIDE CIRCUIT BREAKER ARC ENERGY REDUCTION MAINTENANCE SWITCHING PER NEC, OR CEC WHERE ADPOPTED, 240.87(B)(3) FOR ANY CIRCUIT BREAKER, 1200A FRAME AND LARGER. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE:
   a. TIN-PLATED ALUMINUM BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE MINIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE 100% NEUTRAL BUSSING MINIMUM UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUS AND, WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS.
   b. LUGS SUITABLE FOR USE WITH COPPER OR ALUMINUM CONDUCTORS LISTED FOR USE WITH 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
   c. PERMANENT PLACARD(S) MARKED PER THE SPECIFICATIONS AND PER NEC (OR CEC-WHERE ADOPTED) SECTIONS 225.37, 230.2(E), 690.56, 692.56, 700.7, 701.7, 702.7, AND 705.10 AND IFC (OR CFC - WHERE ADOPTED) SECTION 608.2.6.1. DENOTING THE PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY, STATIONARY BATTERY STORAGE SYSTEMS, OR STAND-BY POWER SOURCES AS APPLICABLE.
10. CONTRACTOR SHALL SUBMIT SWITCHBOARD SHOP DRAWINGS TO THE SERVING UTILITY FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL SECURE CONFIRMATION THAT THE PROPOSED SWITCHBOARD COMPLIES WITH ELECTRIC UTILITY COMPANY REGULATIONS.
11. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE SPECIFICATIONS FOR SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS, PANEL BOARDS, AND ALL OTHER DEVICES SHOWN ON THE SINGLE LINE, PRIOR TO FABRICATION.
12. ALLOWABLE DIMENSIONS IN MAIN ELECTRICAL ROOM ARE A CRITICAL COORDINATION ITEM. CONTRACTOR SHALL PROVIDE 1/4"= 1'-0" SCALE DRAWINGS WITH SWITCHGEAR SUBMITTALS SHOWING THAT ALL PROPOSED EQUIPMENT WILL FIT IN THE SPACE PROVIDED. SUBMITTALS WITHOUT THIS DRAWING SHALL BE REJECTED AS INCOMPLETE.
13. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
14. WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION OR WHERE A NEW GROUND FAULT PROTECTIVE DEVICE IS BEING INSTALLED, A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER NEC (OR CEC-WHERE ADOPTED) 230.95(C). THE GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN THE PRESENCE OF THE LOCAL AUTHORITY HAVING JURISDICTION. VERIFICATION OF DEVICE SETTINGS PER THE POWER SYSTEMS STUDY SPECIFICATION SHALL BE PERFORMED BY THE SAME INDEPENDENT TESTING AGENCY. THE GROUND FAULT TEST RESULTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD. DURING THE CONSTRUCTION PHASE OF THE PROJECT, ALL NEW GROUND FAULT RELAYS SHALL BE SET AT THE LOWEST AVAILABLE TIME DELAY AND PICK-UP SETTINGS.
15. SEE POWER SYSTEMS STUDY SPECIFICATION FOR ADDITIONAL REQUIREMENTS. ALL REQUIRED POWER SYSTEMS STUDIES MUST BE COMPLETED AND SUBMITTED WITH ELECTRICAL POWER DISTRIBUTION EQUIPMENT SUBMITTAL. FAILURE TO DO SO WILL PREVENT THE ENGINEER FROM EFFECTIVELY EVALUATING THE SUBMITTAL AND SHALL RESULT IN REJECTION OF THE ELECTRICAL POWER DISTRIBUTION EQUIPMENT SUBMITTAL AS INCOMPLETE.

FEEDER SCHEDULE

FEEDER	CONDUIT AND CONDUCTORS	LOAD (A)	DISTANCE (FT)	V.D. (%)	AVAIL FAULT CURRENT (A)	NOTES
S-1	(2) 5"C.O. - CONDUCTORS BY SCE	-	-	-	-	SCE POC TO SCE SWITCH -
S-1A	(2) 5"C.O. - CONDUCTORS BY SCE	-	-	-	-	SCE SWITCH TO SCE XFMR
S-1B	(11) [4"C - 4-500MCM, #4/0 GRD.]	2400	15	0.07	-	SCE XFMR TO MSA -
MSA-1	-	-	-	-	-	MSA TO MSB -
MSA-2	-	-	-	-	-	MSA TO FUTURE BLDG. -
MSA-3	-	-	-	-	-	MSA TO PANEL EV -
MSB-3B	(E) 4"C - 3#4/0, #6 GRD.	140	240'	0.77	14870	MSB TO (N)PULLBOX -
MSB-3C	(E) 4"C - 3#4/0, #6 GRD.	140	350'	1.73	7570	MSB TO (N)TR5 -
MSB-3D	2"C - 3#4/0, #6 GRD.	140	290'	0.93	5135	MSB TO (N)TR5 -
TR5-1	3-1/2"C - 4#500KCMIL, 1#1/0 GRD.	280	17	0.11	4967	TR5 TO DPR5 -
DPR5-1	1-1/2"C - 3#1, 1#8 GRD.	80	14	0.15	4611	DPR5 TO RELO TR1 -
DPR5-2	1-1/2"C - 3#1, 1#8 GRD.	80	38	0.41	4107	DPR5 TO RELO TR2 -
DPR5-3	1-1/2"C - 3#1, 1#8 GRD.	80	56	0.60	3795	DPR5 TO RELO TR3 -
DPR5-4	1-1/2"C - 3#1, 1#8 GRD.	80	87	0.93	3357	DPR5 TO RELO TR4 -
DPR5-5	1-1/2"C - 3#1, 1#8 GRD.	80	105	1.12	3146	DPR5 TO RELO TR5 -
DPR5-6	1-1/2"C - 3#1, 1#8 GRD.	80	136	1.45	2839	DPR5 TO RELO TR6 -

GENERAL FEEDER SCHEDULE NOTES:

1. ALL FEEDERS SHOWN, UNLESS SPECIFICALLY NOTED OTHERWISE, ARE PRESUMED TO BE ROUTED IN METAL RACEWAYS. IF P.V.C. CONDUITS ARE UTILIZED, THE CONTRACTOR SHALL PROVIDE AN EQUIPMENT GROUND PER NEC, OR CEC WHERE ADOPTED, TABLE 250.122 OR, WHERE REQUIRED, PROVIDE A MAIN BONDING JUMPER PER TABLE 250.66 AND INCREASE THE CONDUIT SIZE ACCORDINGLY.
2. LOADS INDICATED WITH " ( ) " REPRESENT WORST CASE LOAD IN AMPS.
3. DISTANCE SHOWN IS FOR DESIGN PURPOSES ONLY. IT IS NOT A MATERIAL TAKEOFF.
4. VOLTAGE DROP VALUE INDICATED IS AT THE END OF THE FEEDER.
5. AVAILABLE FAULT CURRENT VALUE AT THE END OF THE FEEDER INDICATED. CALCULATIONS ARE BASED UPON INITIAL VALUES RECEIVED FROM THE SERVING UTILITY AND THE LENGTH AND IMPEDANCE OF THE FEEDER. THE SHORT CIRCUIT CURRENT RATING, EQUIPMENT BUS BRACING, AND/OR AMP INTERRUPTING CURRENT OF EQUIPMENT CONNECTED ON THE LOAD SIDE OF THE FEEDER SHALL BE GREATER THAN THE AVAILABLE FAULT CURRENT.



MAIN SERVICE SYSTEM GROUNDING DETAIL

SCALE: NTS — 2

VOLTAGE DROP WORKSHEET: REFERENCE ONLY

1. ALL BRANCH CIRCUITS ARE DESIGNED TO LIMIT VOLTAGE DROP 3% OR LESS USING THE FOLLOWING CRITERIA:

277 VOLT, 1 PHASE LOAD:

LOAD (VA)	DISTANCE	CU CONDUCTOR SIZE
0-4432 VA	0-158 FT	#12
0-16 AMPS	159-250 FT	#10
	251-397 FT	#8

480 VOLT, 3 PHASE LOAD:

LOAD (VA)	DISTANCE	CU CONDUCTOR SIZE
0-13,296 VA (4,432 PER PHASE)	0-45 FT	#12
0-16 AMPS	46-72 FT	#10
	73-114 FT	#8
13,297-19,994 VA (6,648 PER PHASE)	0-30 FT	#12
16-24 AMPS	31-48 FT	#10
	49-76 FT	#8

208 VOLT, 1 PHASE LOAD:

LOAD (VA)	DISTANCE	CU CONDUCTOR SIZE
0-1000 VA (500 PER PHASE)	0-225 FT	#12
0-4.8 AMPS	226-360 FT	#10
	361-572 FT	#8
1001-2000 VA (1,000 PER PHASE)	0-151 FT	#12
4.8-9.6 AMPS	152-240 FT	#10
	241-380 FT	#8
	381-604 FT	#6
2001-3,328 VA (1,664 PER PHASE)	0-78 FT	#12
9.6-16 AMPS	79-125 FT	#10
	126-198 FT	#8
3329-4,992 VA (2,496 PER PHASE)	0-52 FT	#12
16-24 AMPS	53-83 FT	#10
	84-132 FT	#8

120 VOLT, 1 PHASE LOAD:

LOAD (VA)	DISTANCE	CU CONDUCTOR SIZE
0-1000 VA	0-130 FT	#12
0-8 AMPS	131-205 FT	#10
	205-330 FT	#8
1001-1500 VA	0-87 FT	#12
8-12.5 AMPS	88-138 FT	#10
	139-219 FT	#8
	220-350 FT	#6
1501-1920 VA	0-68 FT	#12
12.5-16 AMPS	69-108 FT	#10
	109-172 FT	#8
	173-273 FT	#6
1921-2880 VA	0-72 FT	#10
16-24 AMPS	73-114 FT	#8
	115-182 FT	#6

ANY 3 PHASE LOADS GREATER THAN 30 AMPS ARE SHOWN ON THE FEEDER SCHEDULE OR MOTORIZED EQUIPMENT SCHEDULE WITH ASSOCIATED VOLTAGE DROP LIMITED TO 2% OR LESS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEMM
NO. C34608
REN.12/27
STATE OF CALIFORNIA

WSP USA
11870 Pierce Street, Suite 160
Riverside, California 92505
951.299.4160 wsp.com
Project Leader: Nikolas Bruno
Electrical Lead: Reid Cordry
WSP Job #: US005649.0917

REGISTERED PROFESSIONAL ENGINEER
RAYMOND W. SWITZER
No. E15610
Ex. 12/31/2027
ELECTRICAL
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

SINGLE LINE DIAGRAM

E-3.1

REV. # DATE

POWER SYSTEMS STUDY SPECIFICATIONS:

THE CONTRACTOR SHALL PROVIDE, WITH THE ASSISTANCE OF THE SWITCHGEAR MANUFACTURER, POWER SYSTEMS STUDIES CONSISTING OF A SHORT CIRCUIT STUDY, A COORDINATION STUDY, AND AN ARC FLASH STUDY - ALL PER LATEST PUBLISHED EDITIONS OF THE FOLLOWING STANDARDS: ANSI C37, IEEE 141, IEEE 242, IEEE 399 - BROWN BOOK, NFPA 70E AND IEEE STD 1584/1584a. ADDITIONALLY:

a. CONTRACTOR SHALL PERFORM STUDY USING SKM "SYSTEMS ANALYSIS POWER TOOLS FOR WINDOWS" COMPUTER SOFTWARE PROGRAM - LATEST AVAILABLE VERSION OR EQUAL BY ETAP.

b. CONTRACTOR SHALL FURNISH/OBTAIN ALL DATA REQUIRED FOR POWER SYSTEMS STUDIES. DATA COLLECTION EFFORT SHALL BE PERFORMED IN AN EXPEDITIOUS MANNER AND AS SOON AS POSSIBLE AFTER CONTRACT AWARD TO ENSURE STUDY COMPLETION FOR SUBMISSION AS PART OF THE ELECTRICAL DISTRIBUTION EQUIPMENT SHOP DRAWINGS AND SUBMITTALS. DATA COLLECTION EFFORTS MAY INCLUDE, BUT ARE NOT LIMITED TO, CALCULATED UTILITY COMPANY FAULT VALUES, SERVICE TRANSFORMER PRIMARY PROTECTIVE DEVICE AND APPLIED VOLTAGE, ELECTRICAL CHARACTERISTICS AND FAULT CONTRIBUTION FROM EXISTING MOTORS/GENERATORS, EXISTING CONDUCTOR QUANTITIES, SIZE AND LENGTHS, EXISTING/ NEW OVERCURRENT PROTECTIVE DEVICE SPECIFICATIONS AND PART NUMBERS, TRANSFER SWITCH CHARACTERISTICS AND SHORT CIRCUIT CURRENT RATINGS IN ADDITION TO ANY OTHER DATA REQUIRED TO PERFORM COMPREHENSIVE POWER SYSTEM STUDIES. RANGES OF FAULT CURRENT VALUES OR GENERIC FAULT CURRENT VALUES PROVIDED BY THE UTILITY COMPANY ARE UNACCEPTABLE AS ARE ANY FAULT CURRENT VALUES SHOWN ON THE SINGLE LINE DIAGRAM OR FEEDER SCHEDULE.

DATA GATHERING SHALL BE CONDUCTED IN A SAFE MANNER WITH 1) EQUIPMENT COMPLETELY DE-ENGERIZED IN COORDINATION WITH THE OWNER DURING A SCHEDULED POWER SHUTDOWN OR 2) UTILIZING A LICENSED ELECTRICIAN WEARING APPROPRIATE PERSONNEL PROTECTIVE EQUIPMENT PER NFPA 70E STANDARDS.

CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING UTILITY DATA FROM THE UTILITY COMPANY - INCLUDE ALL COSTS IN BASE BID FOR ANY UTILITY COMPANY FEES FOR PROVIDING NECESSARY DATA. WHERE THE PROJECT IS LOCATED ON A CAMPUS WITH AN OWNER-FURNISHED ELECTRICAL DISTRIBUTION SYSTEM, CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN SUFFICIENT ELECTRICAL SYSTEM DATA TO DEMONSTRATE COORDINATION OF THE PROJECT'S ELECTRICAL SYSTEM WITH CAMPUS DISTRIBUTION SYSTEM. THIS DATA MAY BE AVAILABLE IN THE FORM OF AN OWNER-PROVIDED CAMPUS POWER SYSTEM STUDY. WHERE SUCH STUDIES ARE NOT AVAILABLE, THE CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO PERFORM NECESSARY FIELD INVESTIGATION OF CAMPUS DISTRIBUTION SYSTEM INCLUDING CAMPUS SERVICE ENTRANCE AND SERVING UTILITY DATA AS REQUIRED TO DEMONSTRATE COORDINATION OF THE PROJECT'S ELECTRICAL SYSTEM WITH CAMPUS DISTRIBUTION SYSTEM. INCLUDE ALL COSTS FOR RECOMMENDING ADJUSTMENTS TO EXISTING CAMPUS DISTRIBUTION SYSTEM SETTINGS DISCOVERED TO BE INCORRECT. OWNER SHALL BE RESPONSIBLE TO UNDERTAKE ANY PHYSICAL ADJUSTMENTS TO EXISTING MEDIUM OR HIGH VOLTAGE DISTRIBUTION EQUIPMENT WITH THE EXCEPTION OF FUSES, RELAYS OR OTHER CIRCUIT PROTECTIVE DEVICES LOCATED IN EXISTING DISTRIBUTION EQUIPMENT THAT ARE DEDICATED TO SERVE ONLY THIS PROJECT'S ELECTRICAL SYSTEM.

CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING EQUIPMENT SCCR RATING FROM ALL OTHER PROJECT TRADES AND FOR ANY OWNER-FURNISHED OR TENANT-FURNISHED EQUIPMENT CONNECTED TO THE ELECTRICAL SYSTEM IN ORDER TO VALIDATE AVAILABLE FAULT CURRENT AT THE EQUIPMENT CONNECTIONS IS LESS THAN THE RESPECTIVE EQUIPMENT SCCR.

c. THE SHORT CIRCUIT STUDY SHALL INCLUDE CALCULATED SHORT-CIRCUIT MOMENTARY AND INTERRUPTING DUTIES FOR 3-PHASE BOLTED FAULTS AND LINE-TO-GROUND FAULTS THROUGHOUT THE SINGLE LINE TO INCLUDE UTILITY SERVICE SUPPLY, GENERATORS AND TRANSFER SWITCHES, SUBSTATIONS, SWITCHGEAR, PANEL BOARDS ETC. STUDY SHALL EVALUATE ALL ELECTRICAL DISTRIBUTION EQUIPMENT AND PROTECTIVE DEVICES AGAINST SHORT CIRCUIT CURRENT RATINGS. THIS STUDY EFFORT SHALL EXTEND TO SCCR RATINGS OF EQUIPMENT, EQUIPMENT CONTROL PANELS, VARIABLE FREQUENCY DRIVES ETC PROVIDED BY OTHER TRADES THAT ARE CONNECTED TO THE ELECTRICAL SYSTEM. NOTE ANY EXISTING CIRCUIT PROTECTIVE DEVICE(S)/ELECTRICAL DISTRIBUTION THAT IS INADEQUATELY RATED TO WITHSTAND CALCULATED FAULT VALUES OR WHERE EQUIPMENT SCCR IS EXCEEDED. WHERE THE UTILITY COMPANY PROVIDES MULTIPLE FAULT CURRENT VALUES REFLECTING INITIAL TRANSFORMER CAPACITY AND WORST CASE TRANSFORMER CAPACITY, THE CONTRACTOR SHALL PROVIDE SHORT CIRCUIT ANALYSIS PRIMARILY BASED ON WORST CASE TRANSFORMER CAPACITY. ALL SERVICE EQUIPMENT SHALL BE LABELED WITH THE MAXIMUM AVAILABLE FAULT CURRENT AND FAULT CURRENT CALCULATION DATE PER NEC (OR CEC WHERE ADOPTED) 110.24. SEE LABELING SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

d. THE COORDINATION STUDY SHALL INCLUDE TIME-CURRENT CURVES (TCC) FOR OVER CURRENT PROTECTIVE DEVICES (OCPDs) ALONG WITH TRANSFORMER FULL-LOAD CURRENT, INRUSH CURRENT, AND THROUGH-FAULT PROTECTION CURVES, CONDUCTOR DAMAGE CURVES, GROUND FAULT PROTECTIVE DEVICE CURVES, MOTOR STARTING CURVE(S)/DAMAGE POINT(S), GENERATOR SHORT-CIRCUIT CURVE(S) /DAMAGE POINT(S) ETC. - CLEARLY IDENTIFIED AND PLOTTED ON LOG-LOG SCALE GRAPH(S). TCC GRAPH(S) SHALL INCLUDE A ONE-LINE DIAGRAM IDENTIFYING THE SPECIFIC PORTION COVERED BY THE GRAPH. DEMONSTRATE THAT ADEQUATE CLEARING TIMES/SELECTIVE OPERATION EXISTS BETWEEN PROTECTIVE DEVICES WHILE PROVIDING PROPER SYSTEM PROTECTION & COORDINATION. STUDY SHALL INCLUDE ALL MAIN AND FEEDER OCPDs INCLUDING SECONDARY SIDE OF EACH TRANSFORMER DOWN TO BREAKERS IN PANEL BOARDS AND INDIVIDUAL BREAKERS IN DISTRIBUTION BOARDS. IN ALL CASES, SOLID STATE AND/OR ADJUSTABLE OCPDs SHALL BE ANALYZED WITH UPSTREAM AND DOWNSTREAM OCPDs AS REQUIRED TO ESTABLISH PROPER COORDINATION SETTINGS. SPECIAL EMPHASIS SHALL BE PLACED ON ANALYZING PORTIONS OF THE ELECTRICAL SYSTEM REQUIRING SELECTIVE COORDINATION WHICH INCLUDE, BUT ARE NOT LIMITED TO, NEC (OR CEC WHERE ADOPTED) ARTICLES 517, 620, 700, 701 & 708; ALONG WITH ANY ARTICLE 702 OPTIONAL STANDBY SYSTEMS SERVING SERVER ROOMS/DATA CENTERS OR OTHER AREAS REQUIRING HIGH AVAILABILITY/PROPER COORDINATION SUCH AS MANUFACTURING, CLEAN ROOM OR LAB FACILITIES. CONTRACTOR SHALL BE RESPONSIBLE TO RECOMMEND SETTINGS OF ALL DEVICES, TO INCLUDE GROUND FAULT SETTINGS, TO ACHIEVE SYSTEM COORDINATION. THE CONTRACTOR SHALL FIELD ADJUST NEW AND EXISTING DEVICES ACCORDINGLY UTILIZING A QUALIFIED MANUFACTURER'S REPRESENTATIVE OR A THIRD-PARTY ELECTRICAL TESTING AGENCY.

e. THE ARC FLASH ANALYSIS SHALL BE BASED ON THE INCIDENT ENERGY ANALYSIS METHOD (NFPA 70E 130.5). THE ARC FLASH ANALYSIS SHALL DETERMINE THE FLASH BOUNDARY, THE WORKING DISTANCE, THE INCIDENT ENERGY AND MINIMUM ARC RATING OF CLOTHING(CAL/CM²) AT LOCATIONS IN THE ELECTRICAL SYSTEM WHERE WORK CAN OR MIGHT BE PERFORMED ON ENERGIZED COMPONENTS WHERE MULTIPLE SYSTEM CONFIGURATION SCENARIOS ARE POSSIBLE, THE CONFIGURATION WITH GREATEST INCIDENT ENERGY MUST BE SHOWN. DECREMENT FAULT CONTRIBUTIONS FROM MOTOR(S) AND GENERATOR(S) BASED ON INDUSTRY STANDARDS. THE CONTRACTOR SHALL MAKE RECOMMENDATIONS WITH REGARD TO SYSTEM ADJUSTMENTS OR OTHER MITIGATION MEASURES TO OPTIMIZE THE RESULTS OF THE STUDY AS IT RELATES TO SAFE AND RELIABLE ELECTRICAL SYSTEM OPERATION (E.G. OVERCURRENT DEVICE SETTINGS, WORKING DISTANCES, CURRENT LIMITING DEVICES). THIS INCLUDES MITIGATION, WHERE POSSIBLE, OF INCIDENT ENERGY LEVELS THAT EXCEED 40 CAL/CM². PERFORM ITERATIVE CALCULATIONS TO DEMONSTRATE EFFECTS OF OPENING PROTECTIVE DEVICES UTILIZING A VARIETY OF DIFFERENT SETTINGS TO BEST MITIGATE ARC FLASH ENERGY WHILE MAINTAINING AN ACCEPTABLE LEVEL OF SYSTEM COORDINATION. WHERE SUCH RECOMMENDATIONS COMPROMISE SELECTIVE COORDINATION SETTINGS, SO STATE IN THE ANALYSIS.

INCLUDE INCIDENT ENERGY/FLASH PROTECTION BOUNDARY CALCULATIONS FOR BOTH LINE/LOAD SIDE OF ALL SEPARATELY ENCLOSED MAIN CIRCUIT BREAKERS. ALL CALCULATIONS SHALL BE BASED ON ACTUAL OVERCURRENT DEVICE CLEARING TIMES.

f. BASED ON THE RESULTS OF THE ARC FLASH ANALYSIS, THE CONTRACTOR SHALL PRODUCE AND INSTALL A WARNING LABEL (ORANGE <40 CAL/CM2) OR DANGER LABEL (RED > 40 CAL/CM2) FOR EACH PIECE OF EQUIPMENT PER NEC (OR CEC WHERE ADOPTED) 110.16 AND IN ACCORDANCE WITH ANSI Z535.4-2007 OR LATEST PUBLISHED EDITION. THE LABEL MUST BE READABLE IN BOTH INDOOR AND OUTDOOR ENVIRONMENTS FOR AT LEAST 3 YEARS AND CONTAIN THE FOLLOWING INFORMATION: NOMINAL SYSTEM VOLTAGE, ARC HAZARD BOUNDARY (INCHES), WORKING DISTANCE (INCHES), AVAILABLE ARC FLASH INCIDENT ENERGY AT THE WORKING DISTANCE (CAL/CM²), MINIMUM ARC RATING OF CLOTHING, EQUIPMENT/BUS NAME, DATE PREPARED, SUPPLIER'S NAME AND ADDRESS. PROVIDE LABEL AS MANUFACTURED BY BRADY OR EQUAL. PRIOR TO PLACING ARC FLASH LABELS, CONTRACTOR SHALL SET ALL PROTECTIVE DEVICE SETTINGS PER THE APPROVED COORDINATION STUDY.

g. DURING THE CONSTRUCTION PHASE OF THE PROJECT, ALL GROUND FAULT RELAYS SHALL BE SET AT THE LOWEST AVAILABLE TIME DELAY AND PICK-UP SETTINGS.

h. POWER SYSTEMS STUDIES SHALL BE SUBMITTED AS PART OF THE OVERALL SWITCHGEAR SUBMITTAL. THE RESULTS OF THE POWER SYSTEMS STUDY SHALL BE PRESENTED IN A COMPREHENSIVE REPORT THAT INCLUDES:

- REPORT SUMMARY WITH ANALYSIS METHODOLOGY, FINDINGS AND RECOMMENDATIONS
- SUMMARY OF INPUT DATA FOR UTILITY SOURCE, EQUIPMENT AND CABLES
- AVAILABLE FAULT CURRENT AT EACH EQUIPMENT LOCATION WITH COMPARISON TO EQUIPMENT RATING
- OVERCURRENT DEVICE SETTINGS (E.G. PICK-UP, TIME DELAY, CURVE), "AS FOUND" AND "AS RECOMMENDED"
- OVERCURRENT DEVICE COORDINATION CURVES INCLUDING RELATED SECTION OF THE SINGLE-LINE DIAGRAM
- COMPLETE SYSTEM SINGLE-LINE DIAGRAM FOR THE SYSTEM ANALYZED
- INCIDENT ENERGY LEVEL (CAL/CM²) FOR EACH EQUIPMENT LOCATION, RECOMMENDED PPE AND SAMPLE ARC FLASH WARNING LABELS
- A DVD OR CD CONTAINING ELECTRONIC PROJECT FILES USED TO DEVELOP THE STUDY TO INCLUDE SKM OR ETAP PROJECT AND REFERENCE LIBRARY FILES. ALL FILES SHALL BE AVAILABLE FOR REVIEW AND/OR FUTURE MODIFICATION WITHOUT LIMITATION. LOCKING OR SECURING FILES BY OTHER MEANS IS NOT ACCEPTABLE. FAILURE TO SUBMIT COMPLETE STUDIES AND FULLY ACCESSIBLE FILES SHALL RESULT IN THE REJECTION OF THE ENTIRE SWITCHGEAR SUBMITTAL.

i. AS A PART OF A CLOSEOUT SUBMITTAL TO BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL PROJECT CONSTRUCTION OBSERVATIONS, CONTRACTOR SHALL PROVIDE PHOTOS OF ALL ADJUSTABLE CIRCUIT BREAKERS DEPICTING THEIR FINAL SETTINGS BASED ON THE POWER SYSTEMS STUDY. SUBMITTAL SHALL BE ORGANIZED WITH OCPD IDENTIFICATION, OCPD PHOTO IMAGE AND RESPECTIVE POWER SYSTEM STUDY OCPD SETTING REQUIREMENTS TO ALLOW EFFICIENT CONFIRMATION OF RECORD SETTINGS. PLEASE NOTE THAT IMAGES MAY NEED TO BE TAKEN PRIOR TO INSTALLATION OF EQUIPMENT COVERS/EQUIPMENT ENERGIZATION SINCE OCPD SETTINGS MAY BE OBSTRUCTED BY EQUIPMENT COVERS.

j. THE STUDY SHALL INCLUDE ALL PORTIONS OF ELECTRICAL SINGLE LINE DIAGRAM TO INCLUDE UPSTREAM OR DOWNSTREAM ELEMENTS THAT MAY NOT BE SHOWN INCLUDING, BUT NOT LIMITED TO, UTILITY SOURCE CONTRIBUTION, RELEVANT PORTIONS OF THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM WITHIN A BUILDING AND/OR CAMPUS ELECTRICAL DISTRIBUTION SYSTEMS AS DESCRIBED ABOVE.

THE STUDY SHALL BE LIMITED IN SCOPE TO INCLUDE JUST NEW PORTIONS OF ELECTRICAL SINGLE LINE DIAGRAM TO INCLUDE UPSTREAM OR DOWNSTREAM ELEMENTS THAT MAY INFLUENCE STUDY RESULTS INCLUDING, BUT NOT LIMITED TO, UTILITY SOURCE CONTRIBUTION, RELEVANT PORTIONS OF THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM WITHIN A BUILDING AND/OR CAMPUS ELECTRICAL DISTRIBUTION SYSTEMS AS DESCRIBED ABOVE. IN THIS CASE APPLICATION OF ARC FLASH LABELING SHALL BE LIMITED TO THE NEW PORTIONS OF THE SINGLE LINE AND ANY CONNECTED UPSTREAM ELECTRICAL SYSTEM COMPONENTS UP TO AND INCLUDING THE MAIN ELECTRICAL SERVICE, ANY LIFE-SAFETY, EMERGENCY, LEGALLY REQUIRED OR OPTIONAL STANDBY SYSTEMS, ELEVATORS, AND FIRE PUMPS.

TRANSFORMER SYSTEM SPECIFICATIONS:

1. TRANSFORMERS SHALL BE DRY TYPE, INTEGRAL, SELF-COOLED, ENCLOSED DISTRIBUTION, TWO-WINDING TYPE PER UL 506. TRANSFORMERS SHALL BE PROVIDED WITH WINDINGS AS SPECIFIED IN THE TRANSFORMER SCHEDULE. EACH TRANSFORMER MUST UNDERGO RESISTANCE, IMPEDANCE AND RATIO TESTING, THE RESULTS OF WHICH SHALL BE PROVIDED AS PART OF THE TRANSFORMER SUBMITTAL PACKAGE.

2. TRANSFORMERS SHALL BE EQUIPPED WITH TWO (2) 2 1/2% FCAN AND TWO (2) 2 1/2% FCBN TAPS. TAP LEADS SHALL BE TERMINATED ON AN INTERNAL BLOCK WITH LUGS FOR CONNECTION OF INCOMING CONDUCTORS. THE TERMINAL COMPARTMENT SHALL BE LOCATED BELOW THE LEVEL OF THE TRANSFORMER WINDINGS. PROVIDE ACCESS TO TERMINALS FROM THE FRONT FOR WALL AND FLOOR MOUNTED TRANSFORMERS, AND FROM THE FRONT AND BOTTOM FOR SUSPENDED TRANSFORMERS.

3. VENTILATION OPENINGS SHALL BE LOCATED TO PERMIT PLACING THE TRANSFORMER IN A CORNER WITHIN 6" OF THE TWO ADJACENT WALLS. ENCLOSURE SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL, COATED INSIDE AND OUT WITH ZINC CHROMATE OR IRON OXIDE RUST INHIBITING PRIMER. ENCLOSURE SHALL THEN BE FINISHED IN GRAY ENAMEL. EACH TRANSFORMER SHALL BE FURNISHED WITH A MANUFACTURER'S NAMEPLATE LOCATED ON THE FRONT OF THE UNIT. THE NAMEPLATE SHALL BE ANODIZED ALUMINUM STENCILED WITH VOLTAGE, KVA RATING, K-RATING, PHASE, TAP ADJUSTMENTS AND WIRING DIAGRAMS.

4. SEISMICALLY-RATED VIBRATION ISOLATORS (KORFUND COMPANY, MASON INDUSTRIES, CALDYN OR EQUAL) SHALL BE LOCATED AT EACH CORNER OF THE TRANSFORMER. ELASTOMER PADS MAY BE USED FOR ISOLATION OF TRANSFORMERS 1) WEIGHTING LESS THAN 1000 LBS AND 2) THAT ARE NOT SPECIFIED WITH REDUCED SOUND LEVELS PER THE TRANSFORMER SCHEDULE. ELASTOMER PADS SHALL BE EQUIPPED WITH SHOULDERED BUSHINGS PREVENTING METAL-TO-METAL CONTACT BETWEEN ANCHOR BOLT AND THE TRANSFORMER. NEOPRENE ISOLATORS SHALL BE USED FOR TRANSFORMERS WEIGHING 1000 LBS OR MORE OR ANY TRANSFORMER SPECIFIED WITH REDUCED SOUND LEVEL OUTPUT PER THE TRANSFORMER SCHEDULE. NEOPRENE ISOLATORS SHALL HAVE CAPTIVE STEEL OR DUCTILE IRON HOUSINGS AS REQUIRED BY SEISMIC CONDITIONS AND WEIGHT OF THE TRANSFORMER. NEOPRENE ELEMENTS SHALL BE ARRANGED IN OPPOSITION TO PROVIDE POSITIVE MECHANICAL RESTRAINT IN ALL DIRECTIONS. NEOPRENE ISOLATORS SHALL BE SELECTED TO PROVIDE NOMINAL 0.2" OF NOMINAL STATIC DEFLECTION IN COMPRESSION (0.15" MINIMUM DEFLECTION) AND LESS THAN 70 DUROMETER (BASED ON SHORE SCALE A AND IN COMPLIANCE WITH ASTM D2240 TYPE A) TO LIMIT SOUND/VIBRATION TRANSMISSION TO THE STRUCTURE - SUBMIT ISOLATOR DEFLECTION CALCULATIONS FOR SELECTED ISOLATORS WITH TRANSFORMER SUBMITTAL. TRANSFORMER SHALL BE BOLTED, VIA VIBRATION ISOLATORS, TO THE FLOOR, HOUSEKEEPING PAD, CEILING OR WALL MOUNTING BRACKETS AT ALL FOUR CORNERS. WHEN SHOWN AS WALL-MOUNTED, PROVIDE EITHER MANUFACTURER'S STANDARD TRANSFORMER WALL MOUNTING BRACKETS OR FIELD-FABRICATED MOUNTING SYSTEMS. TRANSFORMER INSTALLATIONS SHALL, AT MINIMUM, MEET THE SEISMIC BRACING AND ANCHORAGE REQUIREMENTS MANDATED BY GOVERNING BUILDING CODES. SEE GENERAL ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

5. STANDARD TRANSFORMERS SHALL HAVE CLASS 220 INSULATION, HAVING A 150 DEGREE CELSIUS TEMPERATURE RISE ABOVE 30 DEGREE CELSIUS AVERAGE AND 40 DEGREE CELSIUS MAXIMUM, WHEN OPERATING AT FULL LOAD - WITHOUT A LOSS OF LIFE. STANDARD TRANSFORMERS SHALL COMPLY WITH NEMA ENERGY EFFICIENCY STANDARD "TP-1". WHERE TRANSFORMER STOCKS BECOME DEPLETED, INCLUDE ALL COSTS IN BASE BID TO PROVIDE 2016 DEPARTMENT OF ENERGY (DOE) TRANSFORMER EFFICIENCY STANDARD-COMPLIANT TRANSFORMERS.

6. K RATED TRANSFORMERS SHALL HAVE CLASS 220 INSULATION, HAVING A 115 DEGREE CELSIUS TEMPERATURE RISE ABOVE 30 DEGREE CELSIUS AVERAGE AND 40 DEGREE CELSIUS MAXIMUM, WHEN OPERATING AT FULL LOAD - WITHOUT A LOSS OF LIFE. K RATED TRANSFORMERS SHALL COMPLY WITH NEMA ENERGY EFFICIENCY STANDARD "TP-1". WHERE TRANSFORMER STOCKS BECOME DEPLETED, INCLUDE ALL COSTS IN BASE BID TO PROVIDE 2016 DEPARTMENT OF ENERGY (DOE) TRANSFORMER EFFICIENCY STANDARD-COMPLIANT TRANSFORMERS.

7. USE FLEXIBLE CONDUIT FOR PRIMARY AND SECONDARY CONNECTIONS WITH A SEPARATE EQUIPMENT GROUND CONDUCTOR.

8. THE "MIN. %Z" COLUMN INDICATES THE MINIMUM ALLOWED TRANSFORMER IMPEDANCE.

9. THE "A.I.C. VALUE" COLUMN INDICATES THE INTERRUPTING CURRENT AT THE SECONDARY TERMINALS BASED UPON AN INTERRUPTING CURRENT OF INFINITY AT THE PRIMARY TERMINALS.

10. THE "K VALUE" COLUMN INDICATES THE MINIMUM UL APPROVED K RATING. K RATED TRANSFORMERS SHALL BE PROVIDED WITH DOUBLE SIZE NEUTRAL TERMINALS, ADDITIONAL COIL CAPACITY, AN ELECTROSTATIC SHIELD, AND SHALL BE U.L. LISTED FOR NON-LINEAR LOADS.

11. THE "GEC/BJ SIZE" COLUMN INDICATES THE MINIMUM CONDUIT AND COPPER GROUNDING ELECTRODE CONDUCTOR AND BONDING JUMPER SIZES. THE G.E.C. AND CONDUIT SIZE SHALL BE INCREASED PER NEC OR CEC WHERE ADOPTED, TABLE 250.66 BY THE CONTRACTOR BASED ON EQUIVALENT SIZE OF THE TRANSFORMER SECONDARY CONDUCTORS.

12. WHEN THE TRANSFORMER SCHEDULE INDICATES A "REDUCED SOUND LEVEL" TRANSFORMER, PROVIDE A TRANSFORMER THAT PRODUCES 3 DECIBELS LESS SOUND AS COMPARED TO NEMA STANDARD SOUND LEVELS. WHEN REDUCED SOUND LEVEL TRANSFORMER IS NOT INDICATED, PROVIDE A TRANSFORMER THAT MEETS NEMA STANDARD SOUND LEVELS, WHICH ARE:

10-50 KVA - 45 DECIBELS.
51-150 KVA - 50 DECIBELS.
151-300 KVA - 55 DECIBELS.
301-500 KVA - 60 DECIBELS.

13. THE "NEMA/MNTG" COLUMN INDICATES THE NEMA RATED ENCLOSURE TYPE AS WELL AS THE MOUNTING METHOD:

"1" - INDICATES AN INDOOR TYPE.
"3" - INDICATES AN NEMA 3R, OUTDOOR TYPE WITH VENTILATED OPENINGS AND RODENT/TAMPER SCREENS.
"F" - INDICATES FLOOR MOUNTED.
"W" - INDICATES WALL MOUNTED.
"RF" - INDICATES RAISED FLOOR MOUNTING WHICH REQUIRES A CUSTOM MOUNTING FRAME SUCH THAT THE RAISED FLOOR DOES NOT SUPPORT THE TRANSFORMER(S). SUGGESTED SOURCE: MASON WEST INC. (www.masonwest.com)

14. THE "DIMENSIONS" COLUMN INDICATES "H" HEIGHT, "W" WIDTH, AND "D" DEPTH. ALL DIMENSIONS AND WEIGHTS ARE BASED UPON SQUARE D PRODUCTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST IMPACTS OF LARGER DIMENSIONS FROM AN ALTERNATE MANUFACTURER.

15. TRANSFORMERS SHALL BE GROUNDED TO A CODE APPROVED GROUND SOURCE PER NEC, OR CEC WHERE ADOPTED, ARTICLE 250.30.

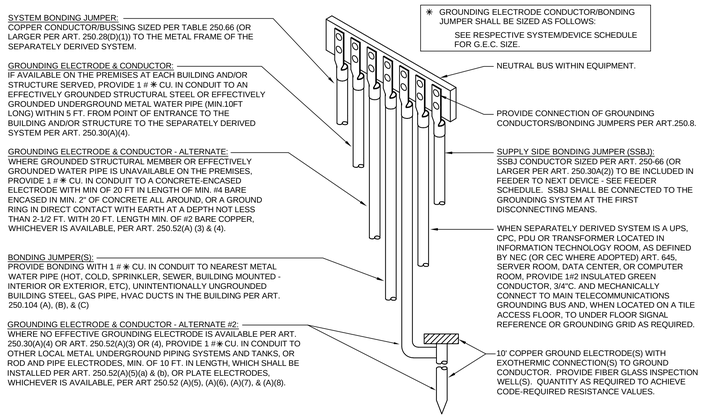
16. IF THE SINGLE LINE DIAGRAM INDICATES TWO (2) SECONDARY FEEDERS THE TRANSFORMER SHALL BE PROVIDED WITH A DOUBLE LUG KIT.

17. SHOP DRAWINGS SHALL BE SUBMITTED PER THE ELECTRICAL SUBMITTAL REQUIREMENTS SHOWING CONFORMANCE TO THESE SPECIFICATIONS.

18. TRANSFORMERS SHALL BE MANUFACTURED BY GE, CUTLER-HAMMER, SIEMENS, SQUARE D, MGM, HAMMOND POWER SOLUTIONS, OR OLSEN.

TRANSFORMER SCHEDULE

NAME	KVA	WINDING MATERIAL	INPUT			OUTPUT			MIN %Z	A.I.C. VALUE	K VAL.	GEC/BJ SIZE	REDUCED SOUND LEVEL	NEMA/ MNTG.	DIMENSIONS			WGT.	REMARKS
			V	P	W	V	P	W							H	W	D		
TR5	112.5	COPPER	480	3	3	120/208	3	4	3.5	8,922	-	3/4"C, #1/0	N/A	3R/FLR	51	35	32	1263	-



A SEPARATELY DERIVED SYSTEM (SDS) GROUNDING DETAIL
SCALE: NTS
(OCPD NOT A PART OF SDS)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PJHM architects

LICENSED ARCHITECT
DEREK C. STEARNS
NO. C34688
REN.12/27
STATE OF CALIFORNIA

wsp

WSP USA
11870 Pierce Street, Suite 160
Riverside, California 92505
951.299.4160 wsp.com
Project Leader: Nikolas Bruno
Electrical Lead: Reid Cordry
WSP Job #: US0056491.0917

REGISTERED PROFESSIONAL ENGINEER
REID W. SWEET
No. E15610
Ex. 12/31/2027
ELECTRICAL
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

TRANSFORMER SCHEDULE

E-3.2

REV. # DATE

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 / §170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires [2]	Luminaire Status[3]	Excluded per §140.7(a) / §170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) /§160.5(c)1 [4]	Field Inspector	
										Pass	Fail
SITE	SITE	☐ Linear	71	Mfr. Spec	6	New	☐	426	NA: < 6200 lumens	☐	☐
							Total Design Watts:	426			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) / §160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)/ §160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 / §170.2(e)6 or §141.0(b)2L / § 180.2(b)4Bv											Compliance Results		
01		02		03		04		05		06	07	08	09
General Hardscape Allowance §140.7(d)1 / §170.2(e)6 (See Table I)	+	Per Application §140.7(d)2 / §170.2(e)6 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 / §170.2(e)6 (See Table L)	+	Per Specific Area / §140.7(d)2 / §170.2(e)6 (See Table M)	OR	Existing Power Allowance §141.0(b)2L / § 180.2(b)4Bv (See Table N)	= **Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
468	+	---	+	---	+	---	+	---	OR	---	= 468	≥	426	COMPLIES
Shielding Compliance (See Table G for Details)														N/A
Controls Compliance (See Table H for Details)														Not applicable

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e)6, §180.1(a) and §180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	PERRIS	04 Total Illuminated Hardscape Area (ft²)	6394
02	Climate Zone	10		
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐	LZ-0: Very Low - Undeveloped Parkland	☒ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Rural Areas	☐ LZ-3: Moderately High - Urban Areas		
05	Occupancy Types within Project			
•	All Other Occupancies			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 / §170.2(e)6 or §141.0(b)2L / § 180.2(b)4Bv for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from §140.7 / §170.2(e)6
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

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I. LIGHTING POWER ALLOWANCE (per §140.7 /§170.2(e))

This table includes areas using allowance calculations per §140.7 /§170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01 "Use it or lose it" Allowance (select all that apply) (select all that apply)				
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
SITE	6394	0.019	121.5	978	0.2	146.8	268
					Initial Wattage Allowance for Entire Site (Watts):		200
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		468

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1 / §160.5(c)	Auto-Schedule §130.2(c)2 / §160.5(c)	Motion Sensor §130.2(c)3 / §160.5(c)	Field Inspector	
				Pass	Fail

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: RAYMOND W. SWARTZ	Documentation Author Signature:
Company: WSP USA	Signature Date: 2026-08-17
Address: 11870 PIERCE ST, SUITE 160	CEA/AEA/ECC Certification Identification (if applicable):
City/State/Zip: RIVERSIDE, CA 92505	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name: RAYMOND W. SWARTZ	Responsible Person Signature:
Responsible Person Scope:	
Company: WSP USA	Date Signed: 2026-08-17
Address: 11870 PIERCE ST, SUITE 160	License:
City/State/Zip: RIVERSIDE, CA 92505	Phone:

TITLE 24 PROCEDURES FOR TESTING AND ADJUSTING

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENT PROCEDURES. INCLUDE ALL COSTS IN THE BASE BID. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2025 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTIONS 13.1.2.2 AND 13.1.2.3.

LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-02-A DOCUMENTS.

AUTOMATIC DAYLIGHT CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-03-A DOCUMENTS.

DEMAND RESPONSE LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-04-A DOCUMENTS.

INSTITUTIONAL TUNING PAF ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-05-A DOCUMENTS.

OUTDOOR LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTO-02-A DOCUMENTS.

ALL LIGHTING CONTROLS TESTING AND ADJUSTING DOCUMENTS NOTED ABOVE ARE AVAILABLE FROM THE CALIFORNIA ENERGY COMMISSION WEB SITE AT:
https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-5

TITLE 24 GENERAL NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENT PROCEDURES. INCLUDE ALL COSTS IN THE BASE BID. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2025 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTION 14.1.2.

SEE STATE OF CALIFORNIA 2025 BUILDING ENERGY EFFICIENCY STANDARDS SECTIONS 10-103(a)3A AND 10-103(a)3B AND SECTION 130.4 FOR MORE INFORMATION.

SEE STATE OF CALIFORNIA 2025 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL CHAPTER 14 FOR MORE DETAILED REQUIREMENTS / INFORMATION.

SEE STATE OF CALIFORNIA 2025 BUILDING ENERGY EFFICIENCY STANDARDS RESIDENTIAL COMPLIANCE MANUAL CHAPTER 2 FOR MORE DETAILED REQUIREMENTS / INFORMATION.

PROVIDE COMPLETED INSTALLATION CERTIFICATE(S) AND CERTIFICATE(S) OF ACCEPTANCE AS REQUIRED TO THE SATISFACTION OF THE ENFORCEMENT AGENCY.

IDENTIFICATION STAMP
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APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

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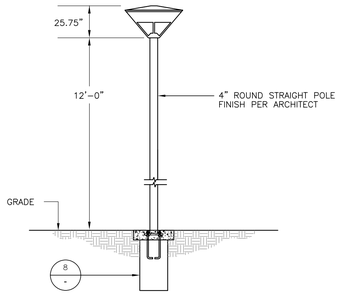
ELECTRICAL
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

TITLE 24 CALCULATION

E-4.1

REV. # DATE

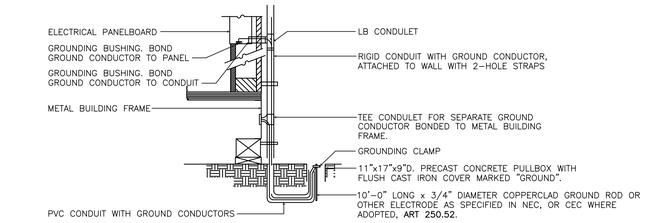


NOTE: POLES WITH TOTAL HEIGHTS LESS THAN 35' HIGH ARE NOT REQUIRED TO BE REVIEWED BY DSA.

SUBMITTALS REQUIRED: PRODUCT DATA, SHOP DRAWINGS, SAMPLES.

POST TOP FIXTURE DETAIL 7

SCALE: N.T.S.

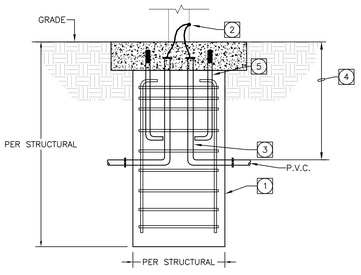


NOTES:

1. METAL MODULAR BUILDINGS: WHEN METAL BUILDINGS ARE MADE OF COMPONENTS, EACH BUILDING COMPONENT, INCLUDING STEEL RAMPS, MUST BE ELECTRICALLY BONDED TOGETHER IN A MANNER ACCEPTABLE TO DSA/SSS. PAINT ON THE SURFACE WILL INHIBIT PASSAGE OF ELECTRICAL CURRENT; THEREFORE, BOLTED CONNECTIONS OF COMPONENT PARTS ARE NOT AN ACCEPTABLE ELECTRICAL BOND.
2. WOOD MODULAR BUILDINGS: IN WOOD FRAME MODULAR BUILDINGS, THE ELECTRICAL SYSTEM MUST BE GROUNDED AS REQUIRED IN TITLE 24, C.E.C.
3. GROUNDING: THE ELECTRICAL CIRCUITS ARE USUALLY PROPERLY GROUNDED, HOWEVER, IT IS ALSO NECESSARY TO INDEPENDENTLY GROUND THE STEEL FRAMES. THIS IS PARTICULARLY IMPORTANT WHEN THE BUILDING IS SUPPORTED ON A FOUNDATION MADE OF WOOD.
4. INSPECTOR OF RECORD (I.O.R.) SHALL WITNESS GROUND TEST AND SUBMIT A COPY OF THE REPORT TO THE ARCHITECT. ALL BUILDING COMPONENTS MUST BE ELECTRICALLY BONDED TOGETHER AND MUST BE INDEPENDENTLY GROUNDED. ALL GROUNDING SYSTEMS ARE TO BE TESTED WITH A MEGGER UNIT OR IN AN OTHERWISE ACCEPTABLE MANNER. REFER TO C.E.C. SECTIONS 250-52 AND NEC. 250-53 FOR SPECIFIC GROUNDING REQUIREMENTS.
5. SIZE OF CONDUCTORS SHALL COMPLY WITH NEC. TABLE 250-95.
6. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC. 250-52). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL CONDUCTOR GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FEET INTO THE SOIL IF AVAILABLE (N.E.C. 250-52 AND NEC. 250-53).
7. ALL MODULES OF METAL FRAME BUILDINGS AND RAMPS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
8. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (NEC. 250-53).
9. SEE SPECIFICATIONS FOR TESTING OF GROUNDING REQUIRED.
10. ALL ELECTRICAL WORK TO MEET THE REQUIREMENTS OF THE STATE ELECTRICAL CODES. PART 3 OF TITLE 24, CAC, WHICH REQUIRES PROPER GROUNDING OF ALL ELECTRICAL CIRCUITS, EQUIPMENT, ETC. FOR PUBLIC SCHOOL BUILDING(S), REGARDLESS OF THE TYPE OF CONSTRUCTION.

RELOCATABLE BUILDING GROUNDING DETAIL 5

SCALE: N.T.S.

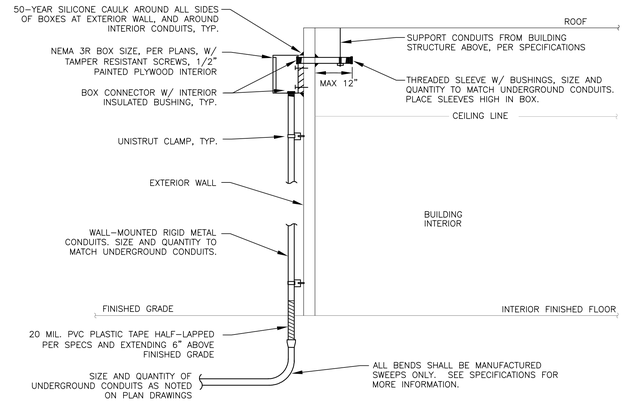


NOTE: MAX HEIGHT OF LIGHT POLE = 14'-2". MAX WEIGHT OF LIGHT FIXTURE = 35 LBS.

1. FOR CONCRETE POLE FOOTING INFORMATION, SEE 10/S-1.2.
2. BOND EQUIPMENT GROUND TO POLE.
3. BRANCH CIRCUIT CONDUIT PER SITE PLAN.
4. PROVIDE MINIMUM COVER OF 24" FROM FINISH GRADE.
5. POLE ANCHOR BOLTS PER MANUFACTURER SPEC'S.

POLE BASE "A" DETAIL 8

SCALE: N.T.S.



NOTES:

1. ALL BOXES/PLYWOOD TO BE SECURED TO BUILDING STRUCTURE USING MIN. ⅜" X 2" WALL ANCHORS/LAG BOLTS. TYPICAL FOR FOUR, ONE AT EACH CORNER.
2. 50-YEAR SILICONE CAULK AROUND ALL PENETRATIONS, BOXES AND ALL THREADS AS REQUIRED.
3. SEAL ALL UNDERGROUND CONDUITS PER COMMUNICATION PATHWAY NOTES, GENERAL PROJECT NOTES, AND PROJECT SPECIFICATIONS.
4. SEE SPECIFICATIONS FOR MORE INFORMATION.

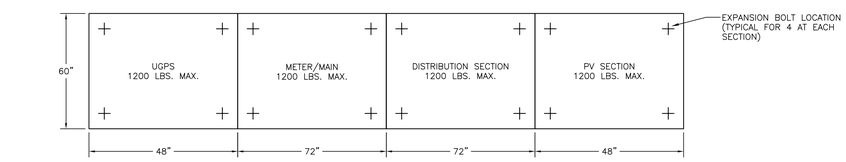
TYPICAL EXTERIOR JUNCTION BOX DETAIL 6

SCALE: N.T.S.

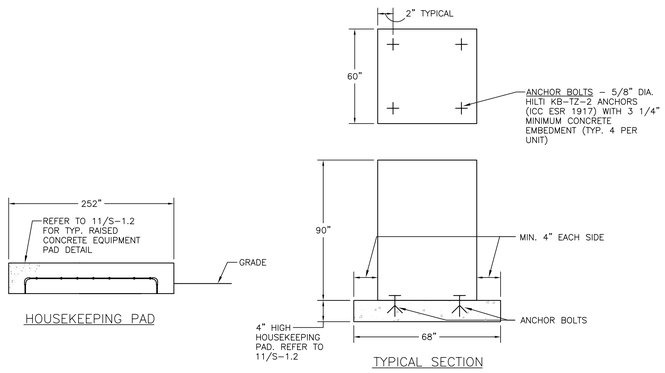
1. FIRESTOP SLEEVES WITH STI'S SPEC SEAL PUTTY (#SSP100) OR EQUAL, IN AND AROUND CABLES AT BOTH ENDS PER MANUFACTURER'S DIRECTIONS.
2. 1/2" BEAD 30-YEAR SILICONE CAULK (CLEAR) INTERIOR WALL TYPICAL.
3. SILICONE CAULK PUSHED INTO BOTH WALL VOIDS FOR A WEATHERTIGHT SEAL.
4. 1/2" BEAD 50-YEAR SILICONE CAULK (CLEAR) EXTERIOR WALL TYPICAL.
5. CABLES TO BE SUPPORTED WITHIN 24" OF BUSHING WITH APPROVED CAT-6 SUPPORT EACH SIDE.
6. MAINTAIN MINIMUM 2" BEND RADIUS FOR CABLES,
7. CONTRACTOR SHALL INSTALL LIQUID TIGHT CONDUIT SIDE BY SIDE W/ MINIMUM 2" SEPARATION BETWEEN CONDUITS. ENVIRONMENT WILL DICTATE BEST APPROACH. FLEXIBLE CONDUIT TO ALLOW 4 INCHES OF MOVEMENT IN ANY HORIZONTAL DIRECTION. MINIMUM LENGTH OF CONDUITS SHALL BE W+8", TYPICAL.
8. WEATHERPROOF JUNCTION BOX, SIZED AS REQUIRED.

TYPICAL LIQUID TIGHT SLEEVE DETAIL 10

SCALE: N.T.S.



PLAN VIEW

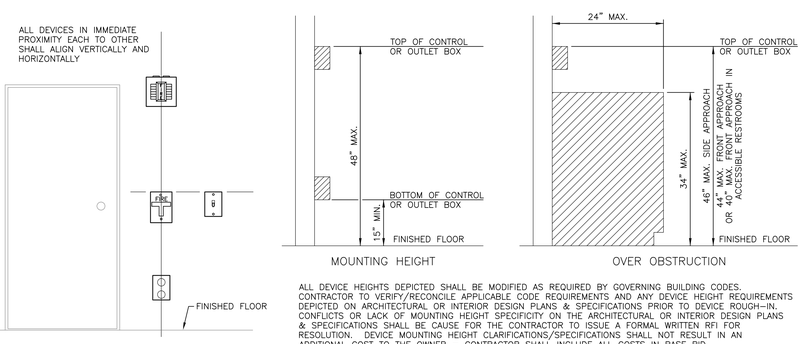


HOUSEKEEPING PAD

TYPICAL SECTION

SWITCHBOARD / INVERTER ANCHORAGE DETAIL 9

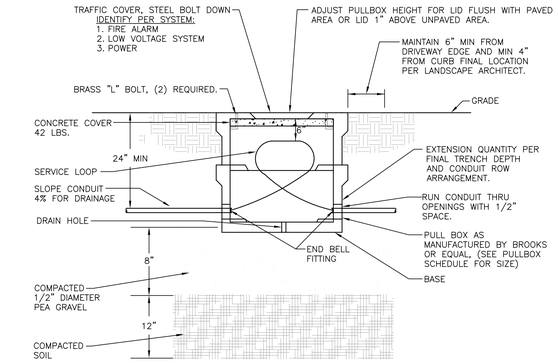
SCALE: N.T.S.



ALL DEVICE HEIGHTS DEPICTED SHALL BE MODIFIED AS REQUIRED BY GOVERNING BUILDING CODES. CONTRACTOR TO VERIFY/RECONCILE APPLICABLE CODE REQUIREMENTS AND ANY DEVICE HEIGHT REQUIREMENTS DEPICTED ON ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS PRIOR TO DEVICE ROUGH-IN. CONFLICTS OR LACK OF MOUNTING HEIGHT SPECIFICITY ON THE ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS SHALL BE CAUSE FOR THE CONTRACTOR TO ISSUE A FORMAL WRITTEN RFI FOR RESOLUTION. DEVICE MOUNTING HEIGHT CLARIFICATIONS/SPECIFICATIONS SHALL NOT RESULT IN AN ADDITIONAL COST TO THE OWNER – CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID.

DEVICE ALIGNMENT & MOUNTING HEIGHT DETAILS 1

SCALE: N.T.S.

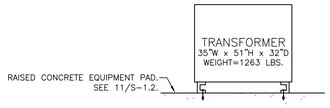


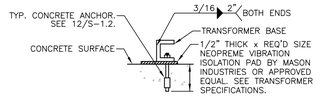
PULL BOX DETAIL 2

SCALE: N.T.S.

PULL BOX NOTES

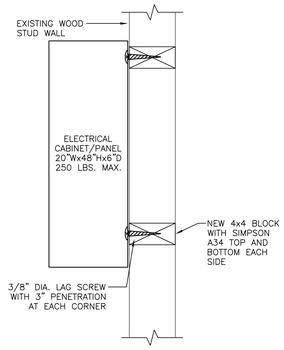
1. ALL BOXES SHALL BE SET ON A MINIMUM 8" GRAVEL BASE WITH 1/2" DIAMETER PEA GRAVEL.
2. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
3. PROVIDE WATERTIGHT SPLICES AND CAPS FOR POWER CONDUCTORS.
4. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS.) THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/ THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY 3M #4442 RE-ENTERABLE ENCAPSULANT.
5. PROVIDE IDENTIFYING TAGS ON ALL POWER AND COMMUNICATION CONDUCTORS IN PULLBOXES.
6. PULLBOX SHALL BE SIZED PER N.E.C. REQUIREMENTS.





STANDARD TRANSFORMER MOUNTING DETAIL 3

SCALE: N.T.S.



SURFACE PANEL MOUNTING 4

SCALE: N.T.S.

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GRANITE HILLS MIDDLE SCHOOL
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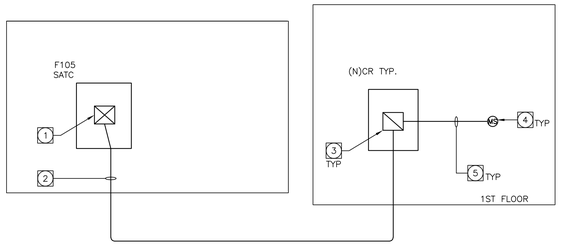
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

ELECTRICAL DETAILS

E-5.1

REV. # DATE



SECURITY ALARM SYSTEM SPECIFIC NOTES:

1. EXISTING SECURITY SYSTEM TERMINAL CABINET. PROVIDE ZONE EXPANDERS, POWER SUPPLY, BATTERY BACKUP, TERMINAL BLOCKS, ETCETERA PER SPECIFICATIONS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
2. MULTI-PAIR BACKBONE CABLE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE OSP-RATED WHEN INSTALLED IN UNDERGROUND CONDUIT BETWEEN BUILDINGS.
3. WALL MOUNT LOCKABLE TERMINAL CABINET COMPLETE WITH TERMINAL STRIPS, POWER SUPPLY, POPITS, ETCETERA FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. ALL CABLES AND TERMINATIONS SHALL CLEARLY IDENTIFY THE DEVICE LOCATIONS WITH MACHINE GENERATED LABELS.
4. MOTION DETECTOR PER SPECIFICATIONS, CEILING MOUNT. QUANTITY AND LOCATIONS PER PLAN DRAWINGS. ONE PER BUILDING.
6. PROVIDE SECURITY SYSTEM DEVICE CABLING PER MANUFACTURER'S SPECIFICATIONS. INSTALL IN CONDUIT WHEN PLACED IN OPEN CEILINGS AND INACCESSIBLE CEILINGS. CABLE SHALL BE RATED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.

SECURITY SYSTEM GENERAL NOTES:

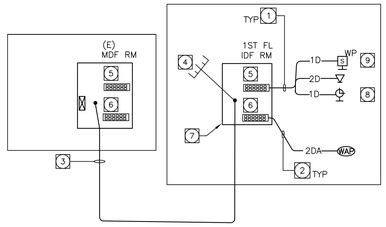
1. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. DRAWINGS AND LAYOUTS ARE PRIMARILY DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR FINAL FOOTAGES AND EXACT LOCATIONS.
3. CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE DISTRICT FOR ALL ZONING AND DEVICE ADDRESSING REQUIREMENTS.

SECURITY ALARM SYSTEM DIAGRAM 4

SCALE: NTS

I.P. CLOCK/PUBLIC ADDRESS SYSTEM GENERAL NOTES:

1. PROVIDE CAT-6 CABLES TO EACH CLOCK AND I.P. PUBLIC ADDRESS SPEAKER AS NOTED ON THIS LAN SYSTEM BLOCK DIAGRAM AND THE IP PUBLIC ADDRESS SYSTEM SPECIFICATIONS.
2. PROVIDE INFORMACAST PA/CLOCK SOFTWARE INCLUDING ALL LICENSES, PROGRAMMING ETCETERA AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
3. REFER TO THE IP CLOCK/PA SYSTEM SPECIFICATIONS FOR SYSTEM REQUIREMENTS AND ADDITIONAL REQUIREMENTS.
4. REFER TO PLAN DRAWINGS FOR QUANTITY AND LOCATIONS OF ALL DEVICES.
5. REFER TO SYMBOLS LIST FOR CLOCK AND I.P. PA SPEAKER DESCRIPTIONS.
6. CONTRACTOR SHALL PAINT ALL EXTERIOR AND INTERIOR SPEAKER BAFFLES TO MATCH SURROUNDING SURFACES.
7. EXTERIOR SPEAKERS SHALL BE WEATHERPROOF.
8. CONTRACTOR SHALL SET AND ADJUST ALL SPEAKER VOLUME LEVELS TO THE DISTRICT'S SATISFACTION.



LAN/VOIP CABLE SCHEDULE

DESIGNATOR	CABLE QUANTITY AND TYPE
1D	(1) CATEGORY-6 UTP 4-PAIR
2D	(2) CATEGORY-6 UTP 4-PAIR
2DA	(2 CATEGORY-6A UTP 4-PAIR

LAN/VOIP SYSTEM GENERAL NOTES:

1. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. DRAWINGS AND LAYOUTS ARE PRIMARILY DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR FINAL FOOTAGES AND EXACT LOCATIONS.

LAN / VOIP / IP CLOCK PA SYSTEM BLOCK DIAGRAM KEY NOTES:

1. CATEGORY-6 UTP 4-PAIR CABLE(S). CABLE QUANTITIES AT EACH DEVICE PER PLAN DRAWINGS, FACEPLATE DETAILS AND CABLE SCHEDULE. TERMINATE ON CAT-6 OUTLET(S) AT DEVICE LOCATION AND ON CAT-6 PATCH PANEL(S) AT IDF/MDF LOCATIONS.
2. CATEGORY-6A UTP 4-PAIR CABLE(S). CABLE QUANTITIES AT EACH DEVICE PER PLAN DRAWINGS, FACEPLATE DETAILS AND CABLE SCHEDULE. TERMINATE ON CAT-6A OUTLET(S) AT DEVICE LOCATION AND ON CAT-6A PATCH PANEL(S) AT IDF/MDF LOCATIONS.
3. FIBER OPTIC BACKBONE CABLES TO MATCH EXISTING CAMPUS, INDOOR/OUTDOOR OSP-RATED. TERMINATE AND TEST ALL STRANDS BOTH ENDS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. RACK MOUNT FIBER OPTIC CABLE ENCLOSURE(S) COMPLETE WITH ALL CONNECTORS, PANELS, ADAPTERS, FAN OUT KITS, FIBER PATCH CORDS, ETC. PER SPECIFICATIONS. TERMINATE ALL STRANDS. PROVIDE QUANTITY AS REQUIRED TO TERMINATE ALL CABLES AND ALL STRANDS. LABEL ALL PANELS AND CONNECTORS WITH MACHINE GENERATED LABELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE 1RU ENCLOSURE IN IDF RACKS, AND A MINIMUM OF 4RU ENCLOSURE IN MDF ROOM.
5. RACK MOUNT CATEGORY-6 PATCH PANEL, INSTALL IN IDF/MDF RACK/CABINET. QUANTITY AS REQUIRED TO TERMINATE ALL CAT-6 CABLES ON THIS PROJECT. SEE SPECIFICATIONS FOR MORE INFORMATION. PROVIDE MACHINE GENERATED LABELS.
6. RACK MOUNT CATEGORY-6A PATCH PANEL, INSTALL IN IDF/MDF RACK/CABINET. TERMINATE ALL CAT-6A CABLES IN CAT-6A PATCH PANELS. QUANTITY AS REQUIRED TO TERMINATE ALL CAT-6A CABLES. SEE SPECIFICATIONS FOR MORE INFORMATION. PROVIDE MACHINE GENERATED LABELS.
7. IDF RACK, PER PLAN DRAWINGS AND SPECIFICATIONS, COMPLETE WITH FIBER OPTIC CABLE ENCLOSURE, CATEGORY-6 PATCH PANELS, CAT-6 PATCH CORDS, CATEGORY-6A PATCH PANELS, CAT-6A PATCH CORDS, VERTICAL AND HORIZONTAL WIRE MANAGERS, ETC. SEE ENLARGED SIGNAL ROOM PLANS AND BUILDING FLOOR PLANS FOR QUANTITY AND LOCATIONS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8. COMBINATION I.P. SPEAKER AND DIGITAL CLOCK WITH BACKBOX PER SPECIFICATIONS.
9. EXTERIOR FLUSH WALL MOUNT WEATHER PROOF I.P. PUBLIC ADDRESS SPEAKER WITH BACK BOX AND BAFFLE, PER SPECIFICATIONS. QUANTITY AND LOCATIONS PER PLAN DRAWINGS.

LAN / VOIP / I.P. CLOCK PA NETWORK SYSTEMS BLOCK DIAGRAM 1

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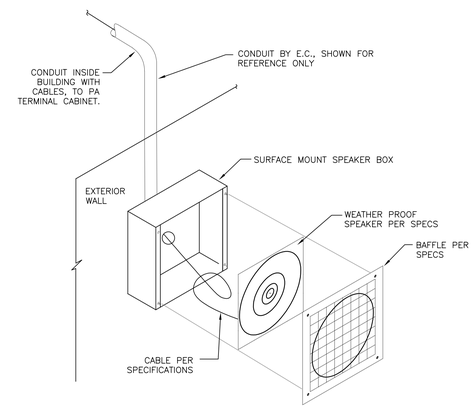
ELECTRICAL
STATE OF CALIFORNIA

WHERE THE FOLLOWING SYMBOLS ARE INDICATED ON THE ELECTRICAL DRAWINGS, ARCHITECTURAL DRAWINGS AND/OR STRUCTURED CABLING SYSTEM DRAWINGS:

S WP

THE FOLLOWING SHALL BE PROVIDED, AS DEPICTED IN THE FOLLOWING DIAGRAMMATIC CONNECTIVITY DETAIL.



NOTES:

1. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS.
2. SURFACE MOUNT SPEAKER BOX TO WALL. PROVIDE WEATHERPROOF SEAL.
3. CONTRACTOR SHALL PAINT BACKBOX AND BAFFLE TO MATCH SURROUNDING SURFACES.
4. PROVIDE CABLING PER SYSTEM SPECIFICATIONS.
5. VERIFY FINAL MOUNTING HEIGHT WITH OWNER IN FIELD PRIOR TO ROUGH-IN.
6. MAX. INSTALLED WEIGHT 6.5 POUNDS.

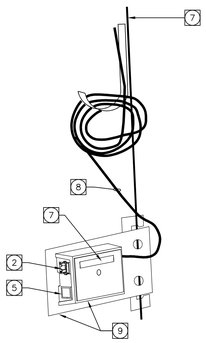
EXTERIOR PUBLIC ADDRESS SPEAKER 6

SCALE: N.T.S.

WHERE THE FOLLOWING SYMBOLS ARE INDICATED ON THE ELECTRICAL DRAWINGS ARCHITECTURAL DRAWINGS AND/OR STRUCTURED CABLING SYSTEM DRAWINGS:

WAP

THE FOLLOWING SHALL BE PROVIDED, AS DEPICTED IN THE FOLLOWING DIAGRAMMATIC CONNECTIVITY DETAIL.

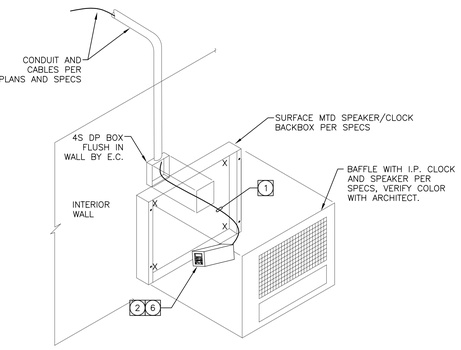


ABOVE CEILING WIRELESS ACCESS POINT 7

SCALE: N.T.S.

WHERE THE FOLLOWING SYMBOLS ARE INDICATED ON THE ELECTRICAL DRAWINGS ARCHITECTURAL DRAWINGS AND/OR STRUCTURED CABLING SYSTEM DRAWINGS:

THE FOLLOWING SHALL BE PROVIDED, AS DEPICTED IN THE FOLLOWING DIAGRAMMATIC CONNECTIVITY DETAIL.

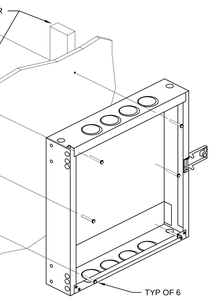


NOTES:

1. COORDINATE ELEVATIONS WITH ARCHITECTURAL PLANS
2. SEE I.P. CLOCK/PA SYSTEM SPECIFICATIONS FOR CLOCK/SPEAKER AND BACKBOX PART NUMBERS.
3. INCLUDE CABLE, 1 PORT JACK, AND CAT-6 PATCH CORD.
4. TOTAL WEIGHT: 4.25 LBS

SURFACE MOUNT CLOCK/SPEAKER DETAIL 2

SCALE: N.T.S.



GENERAL NOTES:

1. THE REAR FRAME MUST BE SECURED TO WALL AT (6) LOCATIONS AND ARE INTENDED TO GO THROUGH 3/4" PLYWOOD BACKBOARD INTO WALL:

   WOOD STUD: PROVIDE 1/4" DIAMETER X 3" LAG SCREWS AND WASHERS CENTERED ON WOOD WALL STUDS, 6 TOTAL, 3 PER STUD.

2. CONTRACTOR TO INSTALL CABINET TO BACKBOARD. E.C. TO INSTALL PAINTED PLYWOOD BACKBOARD. SEE SPECIFICATIONS FOR MORE INFORMATION.
3. MAXIMUM TOTAL EQUIPMENT WEIGHT: 100 POUNDS.

IDF MOUNTING DETAIL 5

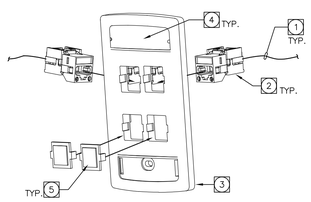
SCALE: N.T.S.

FACEPLATE NOTES:

1. PROVIDE (1) CAT-6, 4 PAIR UTP CABLE(S) TO RESPECTIVE IDF RACK. TERMINATE STATION END(S) IN STATION CONNECTOR(S) PER DETAILS. TERMINATE RACK END(S) ON CAT-6A PATCH PANEL(S) PER DETAILS.
2. PROVIDE DATA CAT-6 STATION CONNECTOR. COLOR OF CONNECTOR PER SPECIFICATIONS.
3. PROVIDE FACEPLATE, FACEPLATE MATERIAL AND FINISH SHALL MATCH ADJACENT AND NEARBY POWER FACEPLATES.
4. PROVIDE FACEPLATE LABELING PER SPECIFICATIONS. SEE SPECIFICATIONS FOR ALL OTHER LABELING REQUIREMENTS.
5. BLANK INSERT. ALL UNUSED OPENINGS SHALL BE COVERED WITH A BLANK INSERT MATCHING THE COLOR OF THE FACEPLATE.
6. PROVIDE 1-PORT WHITE SURFACE MOUNT DATA BOX, HUBBELL #HSB10W OR EQUAL. MOUNT INSIDE CLOCK/SPEAKER HOUSING OR IN J-BOX. COORDINATE FINAL LOCATION IN FIELD. PROVIDE ONE 2-FOOT CAT-6 PATCH CORD.
7. INSTALL DEDICATED SUSPENDED CEILING WIRE/HANGAR OR SUPPORT ROD/ROD HANGAR DIRECTLY TO STRUCTURAL CEILING ABOVE TO SUPPORT WAP 2-PORT HOUSING.
8. PROVIDE (2) CAT-6A, 4-PAIR UTP CABLE(S) TO RESPECTIVE IDF. COLOR OF CABLE(S) PER DISTRICT STANDARDS. TERMINATE STATION END(S) IN CAT-6A STATION CONNECTOR(S) PER SPECIFICATIONS. TERMINATE RACK END(S) ON CAT-6A PATCH PANEL(S) PER SPECIFICATIONS.
9. PROVIDE (1) SURFACE MOUNT, PLENUM-RATED DUAL-PORT HOUSING. MOUNTED TO IN-CEILING BRACKET WITH SPRING WIRE MOUNT(LEVITON 49223-CBC OR EQUAL) WHERE APPLICABLE. PROVIDE 15-FT SLACK LOOP NEAR WAP SUSPENSION POINT.

WHERE THE FOLLOWING SYMBOLS ARE INDICATED ON THE ELECTRICAL DRAWINGS, ARCHITECTURAL DRAWINGS AND/OR STRUCTURED CABLING SYSTEM DRAWINGS:

THE FOLLOWING SHALL BE PROVIDED, AS DEPICTED IN THE FOLLOWING DIAGRAMMATIC CONNECTIVITY DETAIL.



DUAL DATA DEVICE 3

SCALE: N.T.S.

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

TECHNOLOGY DETAILS

REV. # DATE

FIRE ALARM GENERAL NOTES

1. WALL MOUNTED, AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM ABOVE THE FINISHED FLOOR, AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE. (NFPA 72, SECTION 18.4.8.1). ALL WALL MOUNTED VISUAL APPLIANCES AND COMBINATION AUDIBLE/VISUAL APPLIANCES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM ABOVE FINISHED FLOOR AS MEASURED TO THE LENS. (NFPA 72, SECTION 18.5.5.1)
2. ALL EQUIPMENT SHALL BE U.L. AND CSFM LISTED.
3. ALL FIRE ALARM WIRING SHALL BE FLP (FIRE POWER LIMITED) OR FPLP (FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
4. PER THE CEC, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC AND SHALL HAVE THEIR COVERS PAINTED RED WHERE APPLICABLE.
5. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM ELECTRICAL ENGINEER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
6. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY MECHANICAL CONTRACTOR, AND SHALL BE COORDINATED WITH FIRE ALARM SYSTEM.
7. ALL DUCT SMOKE DETECTORS SHALL BE MOUNTED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTORS EXPOSED TO THE WEATHER SHALL BE C.S.F.M. LISTED FOR OUTDOOR INSTALLATION, AND WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.
8. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
9. SMOKE DETECTOR TESTING SHALL BE PERFORMED TO ENSURE THAT EACH DETECTOR IS WITHIN ITS LISTED AND MARKED SENSITIVITY RANGE USING THE METHODS RECOMMENDED PER CFC, SECTION 907.8.3 AND NFPA 72, SECTION 14.4.4.3.4.
10. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
    A. INITIATING DEVICE CIRCUITS (IDC): CLASS B
    B. SIGNALING LINE CIRCUITS (SLC): CLASS B
    C. NOTIFICATION APPLIANCE CIRCUITS (NAC): CLASS B
11. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
12. POINT AND COMMON ANNUNCIATION AND T-TAPPING ARE PROHIBITED. (T-TAPPING IS ALLOWABLE ON STYLE 4 SLC LOOPS).
13. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING.
14. CONTRACTOR TO FIELD VERIFY AND PROVIDE DECIBEL METER FOR TESTING OF AMBIENT NOISE LEVELS AUDIBLE DEVICES TO BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 DBA AT 10 FEET OR 5 DBA ABOVE THE MAXIMUM SOUND LEVEL BUT NOT MORE THAN 110 DBA AT THE MINIMUM HEARING DISTANCE. SOUND LEVEL SHALL BE MAINTAINED FOR DURATION OF AT LEAST 60 SECONDS (CFC, SECTION 907.5.2.1.1). THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS. PROVIDE UPDATED PLANS AND CALCULATIONS THROUGH THE "CHANGE ORDER" PROCESS WHEN INSTALLING ADDITIONAL DEVICES.
15. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15-CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
16. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT OR APPROVED SURFACE RACEWAY IN A NEAT AND PROTECTED MANNER AS INDICATED ON THE DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. ALL CONDUITS SHALL BE 3/4" MINIMUM. CONTRACTOR TO VERIFY CONDUIT FILL PRIOR TO INSTALLATION.
17. ALL FLOW SWITCHES SHALL BE 2 WIRE WITH NON-ELECTRONIC RETARD TYPE SIMILAR TO THE SAFE SIGNAL MODEL "WFDN SERIES" ONLY.
18. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
19. SYSTEM SHALL BE FURNISHED AND INSTALLED BY AN AUTHORIZED DISTRIBUTOR.
20. FIRE ALARM SYSTEM INSTALLATION COMPANY SHALL BE UL LISTED (UUJS).
21. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
22. SMOKE DETECTOR SHALL NOT BE ANY CLOSER THAN 1 FOOT FROM FIRE SPRINKLERS OR 3 FEET FROM ANY SUPPLY DIFFUSER. IN THE AREA OF CONSTRUCTION OR WHERE POSSIBLE DAMAGE/CONTAMINATION COULD OCCUR ON NEWLY INSTALLED FIRE ALARM DEVICES, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER. DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO FINAL CLEAN-UP BY ALL TRADES SHALL BE CLEANED OR REPLACED IN ACCORDANCE WITH CFC, SECTION 907. CLEANING OR REPLACEMENT OF DEVICES THAT WERE MOUNTED AT THE REQUEST OF THE CONTRACTOR WILL NOT BE PERFORMED WITHOUT WRITTEN AUTHORIZATION THAT ASSUMES FINANCIAL RESPONSIBILITY FOR COSTS INCURRED. TESTING OF DETECTORS SHALL BE PERFORMED PER NFPA 72, SECTION 14.4.5.3 AND CFC, SECTION 907.8.4.
23. PER CBC, SECTION 11B-309 ACTIVATION OF INITIATING DEVICE SHALL NOT REQUIRE MORE THAN 5 LBS. (22.2N) OF FORCE OR REQUIRE TIGHT GRASPING PINCHING, OR TWISTING OF WRIST.
24. THE SYSTEM SHALL CONFORM TO CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 AND 24 AS APPLICABLE TO THIS PROJECT.
25. THE VOICE/ALARM COMMUNICATION SYSTEM VOICE MESSAGE SHALL COMPLY WITH NFPA 72, SECTIONS 18.4 AND 24.4 FOR GENERAL REQUIREMENTS, INTELLIGIBILITY, AUDIBILITY, MESSAGE PRIORITY, TONES, ETC.
26. A DEDICATED 120V BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. PROVIDE A LABEL WITHIN THE FACP AND EACH POWER SUPPPLY WITH THE PANEL NUMBER AND CIRCUIT NUMBER OF THE 120 VOLT POWER SOURCE. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION AND BE LABELED AS FOLLOWS:
    A. "FIRE ALARM" FOR FIRE ALARM SYSTEMS.
    B. "EMERGENCY COMMUNICATIONS" FOR EMERGENCY COMMUNICATION SYSTEMS, OR
    C. "FIRE ALARM/ECS" FOR COMBINATION FIRE ALARM AND COMMUNICATIONS SYSTEMS.
27. WHERE A DETECTOR IS INSTALLED ABOVE THE CEILING, THE DETECTOR SHALL BE EASILY ACCESSIBLE AND THE LOCATION OF THE DETECTOR SHALL BE CLEARLY MARKED. FOR DUCT SMOKE DETECTORS A REMOTE TEST STATION SHALL BE PROVIDED. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC.
28. THE "END OF LINE RESISTANCE" OF EACH CIRCUIT SHALL BE TESTED IN THE PRESENCE OF THE I.O.R. AND SHALL NOT EXCEED THE LISTED MANUFACTURER'S MINIMUM OPERATING VOLTAGE.
29. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE LISTED FOR WET LOCATIONS, IN ACCORDANCE WITH CEC, SECTIONS 110.11, 300.5(B), 300.6, 300.9, 310.10, AND 760.3(D).
30. FIRE ALARM SYSTEM IS A FULLY AUTOMATIC SYSTEM. CONTRACTOR TO UTILIZE AREA COVERAGE SMOKE DETECTORS AND ADDRESSABLE CONTROL RELAYS FOR THE SHUTDOWN AND/OR CLOSURE OF HVAC UNITS AND COMBINATION SMOKE/FIRE DAMPERS. CONTROL RELAYS TO BE LOCATED WITHIN 3FT OF THE CONTROLLED CIRCUIT OR APPLIANCE PER NFPA 72, SECTION 21.2.4.
31. PROVIDE (VIA CHANGE ORDER PROCESS) APPROPRIATE MANUFACTURER PRODUCT DATA SHEETS AND APPLICABLE CSFM LISTINGS FOR ALL SUBSTITUTED MANUFACTURER'S MATERIAL, EQUIPMENT OR APPLIANCES, TO DSA PRIOR TO START OF INSTALLATION.
32. CONTRACTOR SHALL PROVIDE FIRE WATCH FOR ALL OCCUPIED AREAS OF WORK WHERE THE REQUIRED FIRE ALARM SYSTEM IS OUT OF SERVICE FOR THE DURATION OF THE SYSTEM OUTAGE. FIRE WATCH AND SYSTEM/EQUIPMENT SHALL BE PER CFC, SECTION 901.7.
33. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 72. THE OPERATION OF ANY AUTOMATIC FIRE DETECTOR, SPRINKLER WATERFLOW DEVICE OR MANUAL FIRE ALARM BOX SHALL AUTOMATICALLY SOUND AN ALERT TONE FOLLOWED BY VOICE INSTRUCTIONS GIVING APPROVED INFORMATION AND DIRECTIONS FOR A GENERAL OR STAGED EVACUATION IN ACCORDANCE WITH THE FIRE SAFETY EVACUATION PLANS REQUIRED BY CFC, SECTION 404 PER CBC/CFC, SECTION 907.5.2.2.
34. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS SHALL HAVE THE CAPABILITY TO BROADCAST LIVE VOICE MESSAGES BY PAGING ZONES ON A SELECTIVE AND ALL-CALL BASIS PER CBC/CFC, SECTION 907.5.2.2.2.
35. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS SHALL BE PROVIDED WITH AN APPROVED EMERGENCY POWER SOURCE PER CBC/CFC, SECTION 907.5.2.2.5.
36. UPON DETECTION OF CARBON MONOXIDE THE FIRE ALARM SYSTEM SHALL PRODUCE A FOUR-PULSE TEMPORAL PATTERN SIGNAL WITHIN THE BUILDING AND COMPLY WITH NFPA 72 SECTION 18.4.3.
37. ALL MEMBRANE AND THROUGH-PENETRATIONS OF RATED ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED FIRE STOP SYSTEM AS IDENTIFIED IN CBC, CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE FIRE ALARM SECTION OF THE PROJECT SPECIFICATIONS.
38. CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
39. THE EXISTING CAMPUS FIRE ALARM SYSTEM SHALL BE MAINTAINED AND OPERATIONAL AT ALL TIMES DURING ALTERATIONS AND CONSTRUCTION. WHEN PORTIONS OF THE SYSTEM REQUIRE ALTERATIONS, THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE. IF NECESSARY TO SHUT DOWN ENTIRE FIRE ALARM SYSTEM, CONTRACTOR SHALL PROVIDE FIREWATCH FOR ALL OCCUPIED AREAS OF WORK UNTIL THE FIRE ALARM SYSTEM IS RETURNED TO OPERATIONAL SERVICE. FIREWATCH AND SYSTEM/EQUIPMENT IDENTIFICATION SHALL BE PER THE 2025 CFC, CHAPTER 33. LOCAL FIRE AUTHORITY AND OWNER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY SHUT DOWN.

FIRE ALARM SYSTEM TESTING NOTES

1. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
2. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
3. DISTRICT SHALL PROVIDE A CERTIFIED IMPARTIAL FIRE ALARM INSPECTOR. DSA, ARCHITECT/ ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
4. 100% OF THE SYSTEM IN CONTRACT WILL BE TESTED AND INSPECTED WITH THE CONTRACTOR OR CONTRACTOR'S SUB AND DISTRICT'S ETS STAFF MEMBER PRESENT. INSPECTION WILL INCLUDE, BUT NOT BE LIMITED TO, REMOVING STROBES/HORNS TO CHECK FOR "T-TAPS", REMOVING J-BOX COVERS TO CHECK WIRE GAGE AND SPLICES.
5. FOLLOW ALL REQUIREMENTS AND INSTRUCTIONS PROVIDED BY MANUFACTURER UPON INSTALLATION OF MANUFACTURER'S PRODUCTS AND DEVICES.
6. PRIOR TO REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE FIRE CODE OFFICIAL THAT THE SUBJECT FIRE PROTECTION SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND HAS BEEN TESTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND THE APPROPRIATE INSTALLATION STANDARD. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT. ANY DEVIATIONS FROM THE DESIGN STANDARDS SHALL BE NOTED AND COPIES OF THE APPROVALS FOR SUCH DEVIATIONS SHALL BE ATTACHED TO THE WRITTEN STATEMENT. (CFC, SECTION 901.2.1)
7. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO DSA/I.O.R. CONTRACTOR SHALL SUPPLY NECESSARY TESTING EQUIPMENT, INCLUDING A "SOUND LEVEL METER" TO CHECK ACCEPTABLE NOISE LEVELS OF AUDIBLE DEVICES. PROVIDE TEST RESULTS PER NFPA 72 TO ARCHITECT, D.S.A., I.O.R. AND TO LOCAL FIRE AUTHORITY, PER CFC, SECTION 907.8.2.
8. INSPECTION, TESTING AND MAINTENANCE SHALL BE IN COMPLIANCE WITH NFPA 72, CHAPTER 14, REACCEPTANCE TESTING SHALL BE IN COMPLIANCE WITH NFPA 72, SECTION 14.4.2.
9. THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED FOR TESTING. THE FIRE AUTHORITY SHALL BE PRESENT AND SHALL BEAR WITNESS FOR TESTING PROCEDURES. DOCUMENTATION FOR WHETHER THE FIRE AUTHORITY WAS PRESENT AND WITNESSED TESTING SHALL BE DOCUMENTED AS PART OF TESTING PROCEDURES DOCUMENTATION.
10. PRIOR TO COMPLETION OF FIRE ALARM SYSTEM THE TWO WAY COMMUNICATION SYSTEM SHALL BE TESTED AND CERTIFIED VIA NFPA 72 EMERGENCY COMMUNICATION SYSTEM SUPPLEMENTARY RECORD OF INSPECTION AND TESTING FORM.
11. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED RECORD OF COMPLETION PER NFPA 72, FIGURE 7.8.2(A) THROUGH (I) AS APPLICABLE. A COMPLETE RECORD OF THE TESTS AND OPERATIONS OF EACH SYSTEM SHALL BE KEPT UNTIL THE NEXT TEST AND FOR ONE YEAR AFTER PER NFPA 72, SECTION 7.7.1.
12. FIRE ALARM SYSTEM DOCUMENTS SHALL BE HOUSED IN THE DOCUMENT CABINET. THE DOCUMENT CABINET SHALL BE INSTALLED AT THE SYSTEM CONTROL UNIT OR AT ANOTHER APPROVED LOCATION AT THE PROTECTED PREMISES AS REQUIRED BY NFPA 72, SECTION 7.7.2.
13. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CFC, SECTION 907.6.6. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A FIRE ALARM SYSTEM MONITORING CONTRACT.
14. THE VOICE/ALARM COMMUNICATION SYSTEM VOICE MESSAGE SHALL COMPLY WITH NFPA 72 SECTIONS 18.4 AND 24.4 FOR GENERAL REQUIREMENTS, INTELLIGIBILITY, AUDIBILITY, MESSAGE PRIORITY, TONES, ETC. REFER TO NFPA 72 ANNEX D, D.1 THROUGH D.6 FOR DETERMINING THE FUNDAMENTALS OF TEST PROTOCOL AND METHOD OF MEASURING INTELLIGIBILITY.

WIRING LEGEND

WIRE DESIGNATION	WIRE IN CONDUIT	WIRE IN CONDUIT UNDERGROUND/WET LOC.	UNDERGROUND/WET WIRE DESIGNATION
INITIATING CIRCUITS Z	2 CONDUCTOR #18 FPL TWISTED/ UNSHEILDED W/OVERALL JACKET	2 CONDUCTOR #18 FPL TWISTED/ UNSHEILDED W/OVERALL JACKET	INITIATING CIRCUITS ZU
POWER CKT. P	2 CONDUCTOR #12 THHN STRANDED	2 CONDUCTOR #12 STRANDED TYPE THWN	POWER CKT. PU
NETWORK CONTROL C	2 CONDUCTOR #12 THHN STRANDED	2 CONDUCTOR #12 STRANDED TYPE THWN	NETWORK CONTROL CU
ANNUNCIATOR D	4 CONDUCTOR #18 FPL TWISTED/ UNSHEILDED W/OVERALL JACKET	4 CONDUCTOR #18 FPL TWISTED/ UNSHEILDED W/OVERALL JACKET	ANNUNCIATOR DU
AUDIBLE LOOP B	2 CONDUCTOR #18 FPL TWISTED/ SHIELDED W/OVERALL JACKET	2 CONDUCTOR #18 FPL TWISTED/ SHIELDED W/OVERALL JACKET	AUDIBLE LOOP BU
AUDIBLE (SPEAKER) A	2 CONDUCTOR #16 FPL TWISTED/ SHIELDED W/OVERALL JACKET	2 CONDUCTOR #16 FPL TWISTED/ SHIELDED W/OVERALL JACKET	AUDIBLE (SPEAKER) AU
VISUAL (STROBE) V	2 CONDUCTOR #12 FPL TWISTED/ UNSHIELDED W/OVERALL JACKET	2 CONDUCTOR #12 FPL TWISTED/ UNSHIELDED W/OVERALL JACKET	VISUAL (STROBE) VU
S-BUS S	4 CONDUCTOR #16 FPLR (2 PAIR)	4 CONDUCTOR #16 FPLR (2 PAIR)	S-BUS SU

NOTE:
1. ALL WIRE TO BE CLASS 'B' PATHWAY SURVIVAL LEVEL 1.
2. ALL CABLING TO BE WEST PENN OR APPROVED EQUAL.
3. COLOR CODE ALL FIRE ALARM CONDUCTORS PER DISTRICT STANDARDS. VERIFY COLOR SCHEMES PRIOR TO ORDERING FIRE ALARM CONDUCTORS.

FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION	MODEL	MANUFACTURER	BACKBOX	MOUNTING HEIGHT	C.S.F.M. NUMBER
FACP	FIRE ALARM CONTROL PANEL	IFP-2000ECS	SILENT KNIGHT	EXISTING	EXISTING	EXISTING
AMP	FIRE ALARM DIGITAL AUDIO AMPLIFIER	ECS-50W	SILENT KNIGHT	EXISTING	EXISTING	EXISTING
FAPS	FIRE ALARM POWER SUPPLY	RPS-1000	SILENT KNIGHT	EXISTING	EXISTING	EXISTING
FATC	FIRE ALARM TERMINAL CABINET	N/A	BY ELECTRICIAN	18"SQ. x 6"D U.N.O. (RED)	VERIFY IN FIELD	N/A
SD	AREA SMOKE DETECTOR (ADDRESSABLE/PHOTO.)	IDP-PHOTO B300-6 (BASE)	FARENHYT BY SILENT KNIGHT	4S DEEP BOX W/ 3-0 RING	CEILING	7272-0559:0149 7300-1653:0109
HD	AREA HEAT DETECTOR (ADDRESS./FIXED 200°F)	IDP-HEAT-HT B210LP (BASE)	FARENHYT BY SILENT KNIGHT	4S DEEP BOX W/ 3-0 RING	ABOVE ACCESSIBLE CEILING, U.O.N.	7270-0559:0147 7300-1653:0109
SF cd	FIRE ALARM SPEAKER/STROBE (CEILING)	SPSCWLED (RED)	SYSTEM SENSOR	4S DEEP BOX W/ 4S EXTENSION	CEILING	7320-1653:0533
S WP	FIRE ALARM SPEAKER (WEATHERPROOF/WALL)	SPRKL (RED)	SYSTEM SENSOR	WP BACKBOX PROVIDED	90" A.F.F. TO TOP	7320-1653:0538

GENERAL FIRE ALARM SYMBOL LIST NOTES:

1. CONFIRM NOTIFICATION DEVICE COLOR (WHITE OR RED) WITH ARCHITECT PRIOR TO ANY ORDER OR INSTALLATION. COLOR TO BE INDICATED IN SHOP DRAWING SUBMITTAL.
2. ALL NOTIFICATION DEVICES ARE TO HAVE "FIRE" MARKING ON THE DEVICE PER MANUFACTURERS LISTED OPTIONS.
3. NUMBER ADJACENT TO VISUAL DEVICES INDICATES MINIMUM CANDELA RATING OF STROBE DEVICE.

GENERAL FIRE ALARM ABBREVIATIONS:

A.F.F.	ABOVE FINISHED FLOOR	N/A	NOT APPLICABLE
E.O.L.	END OF LINE RESISTOR	U.N.O.	UNLESS NOTED OTHERWISE
(E)	EXISTING DEVICE	VL	VERIFY LOCATION IN FIELD
F.B.O.	FURNISHED BY OTHERS	WP	WEATHERPROOF DEVICE
TSP	TWISTED SHIELDED PAIR	cd	INDICATED CANDELA RATING OF STROBE DEVICE

SEQUENCE OF OPERATIONS

ACTION \ DEVICE	120 VOLT POWER FAILURE	SYSTEM TROUBLE: WIRING FAULT OR OPEN, GROUND FAULT, SHORT OR BATTERY, CIRCUIT SHORT	AREA SMOKE DETECTOR	AREA OF ATTIC HEAT DETECTOR
SOUND CONTROL PANEL TROUBLE BUZZER	YES	YES	NO	NO
SOUND CONTROL PANEL SUPERVISORY BUZZER	NO	NO	NO	NO
SOUND CONTROL PANEL ALARM BUZZER	NO	NO	YES	YES
ACTIVATE RELAY FOR CENTRAL STATION MONITORING	YES	YES	YES	YES
ANNUNCIATE AT FIRE ALARM CONTROL PANEL (ALARM)	NO	NO	YES	YES
ANNUNCIATE AT FIRE ALARM CONTROL PANEL (TROUBLE)	YES	YES	NO	NO
ANNUNCIATE AT REMOTE ANNUNCIATOR PANEL (ALARM)	NO	NO	YES	YES
ANNUNCIATE AT REMOTE ANNUNCIATOR PANEL (TROUBLE)	YES	YES	NO	NO
ACTIVATE AUDIBLE NOTIFICATION ALARM SIGNAL THROUGHOUT CAMPUS	NO	NO	YES	YES
ACTIVATE VISUAL NOTIFICATION ALARM SIGNAL THROUGHOUT CAMPUS	NO	NO	YES	YES
ACTIVATE AUDIBLE NOTIFICATION ALARM SIGNAL THROUGHOUT BLDG	NO	NO	YES	YES
ACTIVATE VISUAL NOTIFICATION ALARM SIGNAL THROUGHOUT BLDG	NO	NO	YES	YES
NOTIFY FIRE DEPARTMENT VIA MONITORING STATION -	NO	NO	YES	YES
SOUND AN ALERT TONE FOLLOWED BY VOICE INSTRUCTION	NO	NO	YES	YES

PLAN REVIEW REQUIREMENTS AND APPLICABLE CODES AND STANDARDS

1.0 FIRE ALARM PLAN REVIEW

A. FIRE ALARM PLAN REVIEW

1. AS PART OF THE FIRE ALARM PLAN REVIEW, PLANS AND SPECIFICATIONS FOR THE FIRE ALARM SYSTEM HAVE BEEN INCLUDED FOR REVIEW AND COMMENT BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY.
2. THE FLOOR PLANS AND SPECIFICATIONS INCLUDE THE FOLLOWING: LOCATIONS OF ALL ALARM-INITIATING AND SIGNALING DEVICES, CONTROL AND TROUBLE SIGNALING EQUIPMENT (FIRE ALARM CONTROL PANEL, BUILDING ANNUNCIATION (FIRE ALARM ANNUNCIATOR).

B. FIRE ALARM COMPONENTS

1. PROVIDE CALIFORNIA STATE FIRE MARSHAL LISTING SHEETS AND U.L. LISTING NUMBERS FOR EACH COMPONENT.
2. EQUIPMENT POWER CONNECTIONS.
3. RISER DIAGRAM SHOWING EACH COMPONENT.
4. VOLTAGE DROP CALCULATIONS.
5. POWER CONNECTIONS TO APPLICABLE COMPONENTS.
6. WIRE AND/OR CABLING TYPES AND SIZES.
7. PROVIDE CATALOG DATA SHEETS FOR ALL FIRE ALARM SYSTEM COMPONENTS.
8. CONTRACTOR TO FURNISH STATEMENT OF COMPLIANCE BEFORE REQUESTING FINAL APPROVAL OF INSTALLATION IN ACCORDANCE WITH CFC, SECTION 901.2.1.
9. A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE PROJECT INSPECTOR AND, IF APPLICABLE, LOCAL FIRE AUTHORITY.
10. THE INSTALLER SHALL SUPPLY THE OWNER WITH A WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS BUILT DRAWINGS AND EQUIPMENT SPECIFICATIONS. AS BUILT RECORDS SHALL BE MAINTAINED ON PREMISES FOR A MINIMUM OF THREE YEARS PER CFC, SECTION 901.6.3.

C. SCOPE OF WORK

1. INSTALL A FULLY AUTOMATIC, ADDRESSABLE, FIRE ALARM SYSTEM WITH AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM WITHIN ALL BUILDINGS IN SCOPE OF PROJECT AS DEFINED PER CFC, SECTION 907.2.3 AND NFPA 72.
2. FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE U.L. LISTED AS UUFX (CENTRAL STATION) PER CFC, SECTION 907.6.6.3.
3. FIRE SPRINKLER SYSTEM UTILIZED FOR HEAT DETECTION IN ALL ABOVE CEILING, ATTIC SPACES AND CONCEALED COMBUSTIBLE AREAS. PROVIDE HEAT DETECTORS WHERE FIRE SPRINKLERS HAVE BEEN OMITTED PER NFPA 72 AND NFPA 13.

2.0 LIST OF CURRENT CALIFORNIA CODE OF REGULATIONS

APPLICABLE CODES AS OF JANUARY 1, 2026

2025 California Administrative Code (CAC), Part 1, Title 24, C.C.R.
2025 California Building Code (CBC), Part 2, Title 24, C.C.R.
2025 California Electrical Code (CEC), Part 3, Title 24, C.C.R.
2025 California Mechanical Code (CMC), Part 4, Title 24, C.C.R.
2025 California Plumbing Code (CPC), Part 5, Title 24, C.C.R.
2025 California Energy Code, Part 6, Title 24, C.C.R.
2025 California Fire Code (CFC), Part 9, Title 24, C.C.R.
2025 California Wild-Urban Interface Code (CWUIC), Part 7, Title 24, C.C.R.
2025 California Existing Building Code (CEBC), Part 10, Title 24, C.C.R.
2025 California Green Building Standards Code (CALGreen), Part 11, Title 24, C.C.R.
2025 California Referenced Standards Code, Part 12, Title 24, C.C.R.
Title 19 C.C.R., Public Safety, State Fire Marshal Regulations

LIST OF FEDERAL CODES AND STANDARDS (if applicable)
Americans with Disabilities Act (ADA), Title II or Title III
For Title II: Uniform Federal Accessibility Standards (UFAS) or ADA Standards for Accessible Design (Appendix A of 28 CFR Part 36.)
For Title III: ADA Standards for Accessible Design (Appendix A of 28 CFR Part 36.)
Americans with Disabilities Act Accessibility Guidelines (ADAAG) (with amendments through September 2002)

APPLICABLE STANDARDS

For a list of applicable standards, including California amendments to the NFPA Standards, refer to CBC Chapter 35 and CFC Chapter 80.

COMPLETE FIRE ALARM SUBMITTAL
AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM WITH EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM

IDENTIFICATION STAMP
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PJHM architects

LICENSED ARCHITECT — DEREK C. STEMP — NO. C-34618 — REN. 12/27 — STATE OF CALIFORNIA

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Project Leader: Nikolas Bruno
Electrical Lead: Reid Cordry
WSP Job #: US0056491.0917

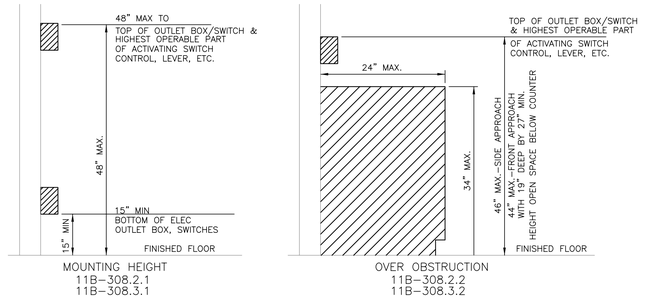
REGISTERED PROFESSIONAL ENGINEER — RAYMOND W. SWIFT — No. E15610 — Ex. 12/31/2027 — ELECTRICAL — STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

FIRE ALARM
SYSTEM INFORMATION

EFA-0.0

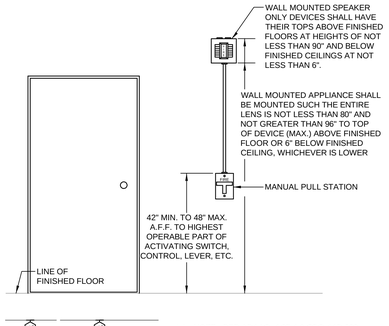
REV. # DATE



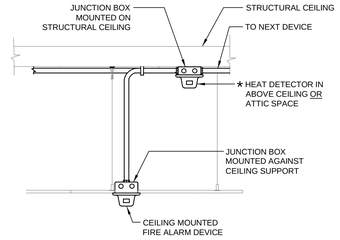
ALL DEVICE HEIGHTS DEPICTED SHALL BE MODIFIED AS REQUIRED BY GOVERNING BUILDING CODES. CONTRACTOR TO VERIFY/RECONCILE APPLICABLE CODE REQUIREMENTS AND ANY DEVICE HEIGHT REQUIREMENTS DEPICTED ON ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS PRIOR TO DEVICE ROUGH-IN. CONFLICTS OR LACK OF MOUNTING HEIGHT SPECIFICITY ON THE ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS SHALL BE CAUSE FOR THE CONTRACTOR TO ISSUE A FORMAL WRITTEN RFI FOR RESOLUTION. DEVICE MOUNTING HEIGHT CLARIFICATIONS/SPECIFICATIONS SHALL NOT RESULT IN AN ADDITIONAL COST TO THE OWNER -- CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID.

MOUNTING HEIGHT OVER OBSTRUCTION DETAIL 7

SCALE: NTS



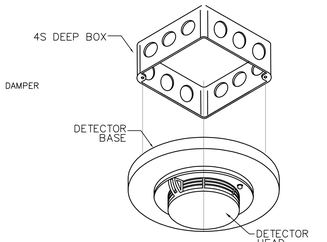
★★ NOTE: PER ADAAG, 4.27.4 & CBC, 11B-309 CONTROLS AND OPERATING MECHANISMS AT INITIATING DEVICE "SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5lbf (22.2N)."



★ TEMPERATURE SETTING OF HEAT DETECTOR DEVICE TO BE SET AT MINIMUM OF 20°F. ABOVE THE MAXIMUM EXPECTED TEMPERATURE OF THE SPACE INSTALLED PER NFPA 72, 17.6.2.3.

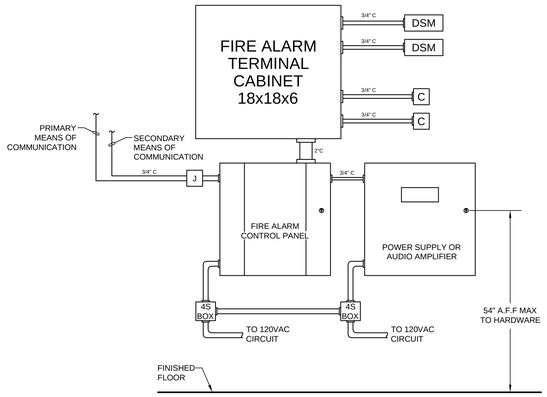
DEVICE MOUNTING DETAILS 4

SCALE: N.T.S.



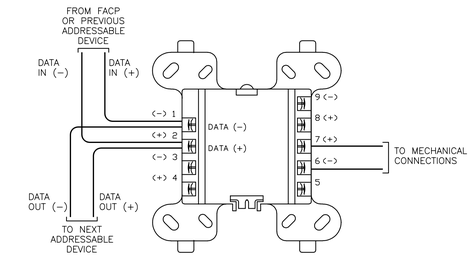
DETECTOR MOUNTING DETAIL 1

SCALE: N.T.S.

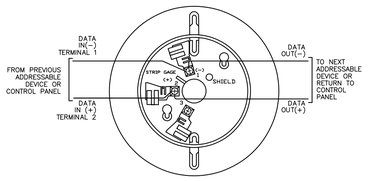


FIRE ALARM PANEL/POWER SUPPLY MOUNTING ELEVATION 5

SCALE: N.T.S.



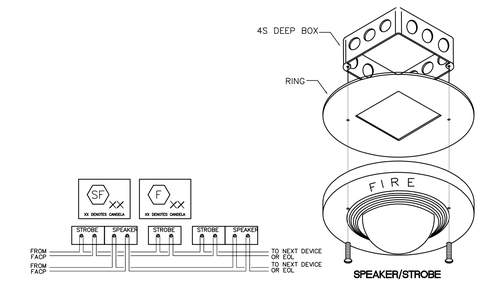
CONTROL MODULE WIRING



ADDRESSABLE SMOKE/HEAT DETECTOR

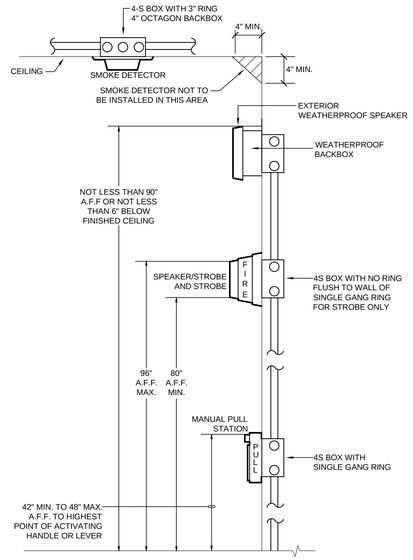
DEVICE WIRING DETAILS 6

SCALE: N.T.S.



CEILING MTD. AUDIBLE/VISUAL 2

SCALE: N.T.S.



GENERAL NOTES:

1. THE ENTIRE LENS OF STROBE LIGHTS MUST BE BETWEEN 80" AND 96" ABOVE FLOOR FINISH. (NFPA 72, 18.5.5)
2. MANUAL FIRE ALARM BOXES SHALL BE INSTALLED IN ACCORDANCE WITH CFC, SECTIONS 907.4 THROUGH 907.5.
3. WHEN APPLICABLE, MANUAL FIRE ALARM BOXES SHALL BE LOCATED NOT MORE THAN 5 FEET FROM THE ENTRANCE TO EACH EXIT. ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE LOCATED SO THAT TRAVEL DISTANCE TO THE NEAREST BOX DOES NOT EXCEED 200 FEET. (CFC, 907.4.2.1)

MOUNTING HEIGHT DETAIL 3

SCALE: N.T.S.

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GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

FIRE ALARM DETAILS

EFA-0.1

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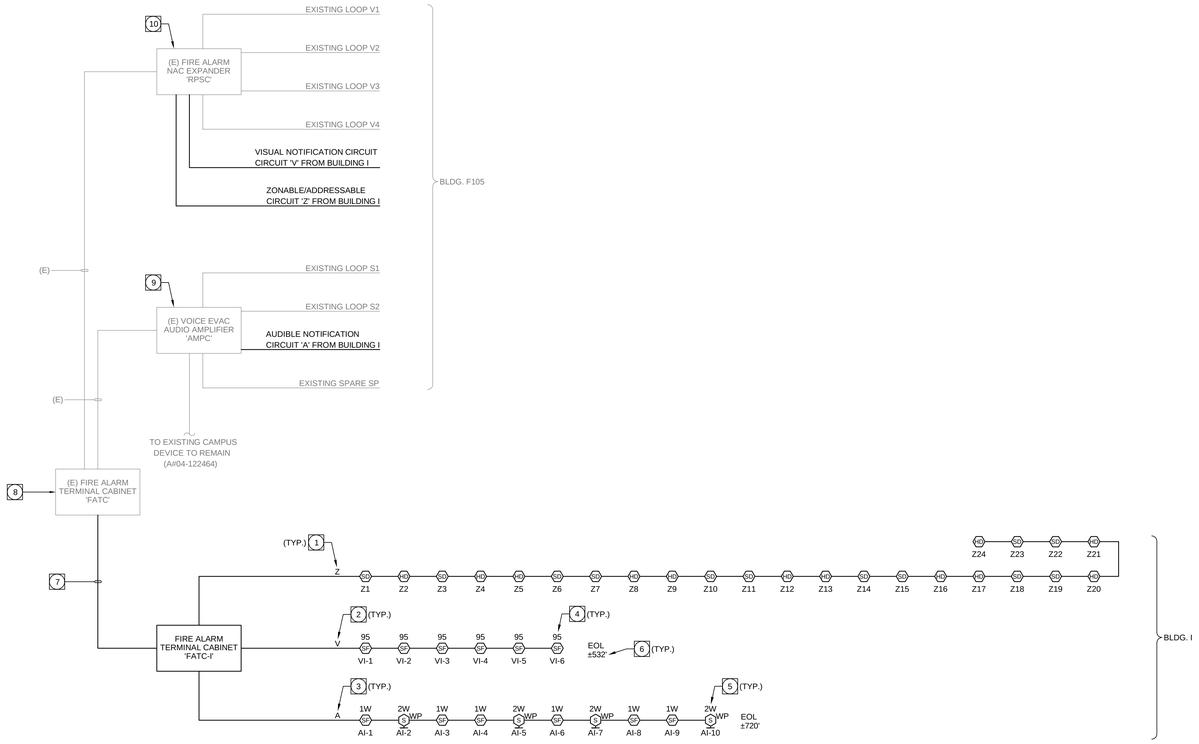

FIRE ALARM RISER DIAGRAM

SCALE: NTS

1

RISER DIAGRAM PLAN NOTES:

1. Z - ZONABLE/ADDRESSABLE CIRCUIT, PROVIDE 2#18 TWISTED PAIR PER CIRCUIT, TYPICAL.
2. V - VISUAL NOTIFICATION CIRCUIT, PROVIDE 2#12 PER CIRCUIT, TYPICAL.
3. A - AUDIBLE NOTIFICATION CIRCUIT, PROVIDE 2#16 PER CIRCUIT, TYPICAL.
4. CANDELA RATING OF STROBE DEVICE, TYPICAL.
5. TAPPED WATTAGE FOR SPEAKER, TYPICAL.
6. DISTANCE TO END OF LINE (EOL) DEVICE, TYPICAL.
7. PROVIDE 2"C. WITH FIBER OPTIC CABLING PER MANUFACTURERS REQUIREMENTS.
8. EXISTING FIRE ALARM DEVICE TO REMAIN PROTECTED IN PLACE (A#-04-122464).
9. EXISTING VOICE EVAC AUDIO AMPLIFIER 'AMPC' TO REMAIN PROTECTED IN PLACE (A#-04-122464).
10. EXISTING FIRE ALARM NAC EXPANDER 'RPSC' TO REMAIN PROTECTED IN PLACE (A#-04-122464).

FIRE ALARM GENERAL NOTES:

1. NOTIFICATION DEVICES IN ROOMS CONTAINING (2) OR MORE AUDIBLE AND/OR (2) OR MORE VISUAL DEVICES SHALL BE SYNCHRONIZED PER NFPA 72. THIS SHALL INCLUDE AUDIBLE AND VISUAL DEVICES LOCATED IN ADJACENT/ADJOINING SPACES.
2. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER / ENGINEER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC. THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR—FLOW, NOR CLOSER THAN 3 FEET (915 mm) FROM ANY AIR SUPPLY DIFFUSER.
4. THE AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIED SPACE WITHIN THE BUILDING PER CFC SECTION 907.5.2.1.1. THE MINIMUM SOUND PRESSURE LEVEL SHALL BE 60 dBA PER NFPA 72, TABLE A.18.4.3.
5. THE AUDIBLE ALARM SIGNAL SHALL BE THE STANDARD FIRE ALARM EVACUATION SIGNAL, ANSI S3A.1 AUDIBLE EMERGENCY EVACUATION SIGNAL, "THREE PULSE TEMPORAL PATTERN", AS DESCRIBED IN NFPA 72. EXCEPTION: THE USE OF THE EXISTING EVACUATION SIGNALING SCHEME SHALL BE PERMITTED WHERE APPROVED BY THE ENFORCING AGENT. (CFC, SECTION 907.5.2.1.3)
6. THE EXISTING CAMPUS FIRE ALARM SYSTEM SHALL BE MAINTAINED AND OPERATIONAL AT ALL TIMES DURING ALTERATIONS AND CONSTRUCTION. WHEN PORTIONS OF THE SYSTEM REQUIRE ALTERATIONS, THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE. IF NECESSARY TO SHUT DOWN ENTIRE FIRE ALARM SYSTEM, CONTRACTOR SHALL PROVIDE A FIRE WATCH FOR ALL OCCUPIED AREAS OF WORK WHERE THE REQUIRED FIRE ALARM SYSTEM IS OUT OF SERVICE FOR THE DURATION OF THE SYSTEM OUTAGE. FIRE WATCH AND SYSTEM/EQUIPMENT IDENTIFICATIONS SHALL BE PER CFC, SECTION 901.7. LOCAL FIRE AUTHORITY SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY SHUT DOWN.
7. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 72. THE OPERATION OF ANY AUTOMATIC FIRE DETECTOR, SPRINKLER WATERFLOW DEVICE OR MANUAL FIRE ALARM BOX SHALL AUTOMATICALLY SOUND AN ALERT TONE FOLLOWED BY VOICE INSTRUCTIONS GIVING APPROVED INFORMATION AND DIRECTIONS FOR A GENERAL OR STAGED EVACUATION IN ACCORDANCE WITH THE FIRE SAFETY EVACUATION PLANS REQUIRED BY CFC SECTION 404 PER CBC/CFC SECTION 907.5.2.2.
8. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS SHALL HAVE THE CAPABILITY TO BROADCAST LIVE VOICE MESSAGES BY PAGING ZONES ON A SELECTIVE AND ALL—CALL BASIS PER CBC/CFC, SECTION 907.5.2.2.2.
9. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS SHALL BE PROVIDED WITH AN APPROVED EMERGENCY POWER SOURCE PER CBC/CFC, SECTION 907.5.2.2.5.

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REID W. SWEITZER
No. E15610
Ex. 12/31/2027
ELECTRICAL
STATE OF CALIFORNIA

BATTERY SIZING CALCULATION

PROJECT NAME: GRANITE HILLS MS EXPANSION PHASE 1
PANEL LOCATION: (E) BLDG B ROOM B108
DATE PERFORMED: August 24, 2026

(E) FACP (A#04-125229)

QTY.	DEVICE NAME	STD-BY (AMPS)		ALARM (AMPS)	
	EXISTING LOAD		0.6958		4.1876
	NEW LOAD				
12	SMOKE DETECTOR	0.0002	0.0024	0.0045	0.0540
12	HEAT DETECTOR	0.0002	0.0024	0.0020	0.0240
		0.0000	0.0000	0.0000	0.0000
		0.0000	0.0000	0.0000	0.0000
	TOTALS =		0.7006		4.2656

STAND-BY LOAD = 0.7006 ALARM LOAD = 4.2656 AMPS
STAND-BY TIME = 24 ALARM TIME = 15 / 60 HRS

STAND-BY = 16.8144 ALARM = 1.0664 AMP HRS

TOTAL = STAND-BY + ALARM
= 16.81 + 1.07
= 17.88 Ah (AMP HRS)
MULTIPLY BY DERATING FACTOR OF 1.25 = 22.35 Ah (AMP HRS)

MINIMUM BATTERY SIZE = 22.35 AMPERE HOURS
EXISTING (2) 35.00 Ah 12VDC BATTERIES SUFFICIENT FOR 24VDC OPERATION

BATTERY SIZING CALCULATION

PROJECT NAME: GRANITE HILLS MS EXPANSION PHASE 1
PANEL LOCATION: F105
DATE PERFORMED: October 22, 2026

(E) RPSC (A#04-122464)

QTY.	DEVICE NAME	STD-BY (AMPS)		ALARM (AMPS)	
	EXISTING LOAD		0.0100		2.1700
	NEW LOAD				
0	15cd STROBE (CEILING)	0.0000	0.0000	0.0180	0.0000
0	30cd STROBE (CEILING)	0.0000	0.0000	0.0220	0.0000
0	75cd STROBE (CEILING)	0.0000	0.0000	0.0700	0.0000
6	95cd STROBE (CEILING)	0.0000	0.0000	0.0750	0.4500
		0.0000	0.0000	0.0000	0.0000
	TOTALS =		0.0100		2.6200

STAND-BY LOAD = 0.0100 ALARM LOAD = 2.6200 AMPS
STAND-BY TIME = 24 ALARM TIME = 15 / 60 HRS

STAND-BY = 0.2400 ALARM = 0.6550 AMP HRS

TOTAL = STAND-BY + ALARM
= 0.24 + 0.66
= 0.90 Ah (AMP HRS)
MULTIPLY BY DERATING FACTOR OF 1.25 = 1.12 Ah (AMP HRS)

MINIMUM BATTERY SIZE = 1.12 AMPERE HOURS
EXISTING (2) 10.00 Ah 12VDC BATTERIES SUFFICIENT FOR 24VDC OPERATION

BATTERY SIZING CALCULATION

PROJECT NAME: GRANITE HILLS MS EXPANSION PHASE 1
PANEL LOCATION: F105
DATE PERFORMED: October 8, 2026

(E) AMPC (A#04-122464)

QTY.	DEVICE NAME	STD-BY (AMPS)		ALARM (AMPS)	
	EXISTING LOAD		0.2000		0.8250
	NEW LOAD				
0	SPEAKER 1/4W	0.0000	0.0000	0.0035	0.0000
0	SPEAKER 1/2W	0.0000	0.0000	0.0071	0.0000
6	SPEAKER 1W	0.0000	0.0000	0.0141	0.0846
4	SPEAKER 2W	0.0000	0.0000	0.0283	0.1132
		0.0000	0.0000	0.0000	0.0000
	TOTALS =		0.2000		1.0228

STAND-BY LOAD = 0.2000 ALARM LOAD = 1.0228 AMPS
STAND-BY TIME = 24 ALARM TIME = 15 / 60 HRS

STAND-BY = 4.8000 ALARM = 0.2557 AMP HRS

TOTAL = STAND-BY + ALARM
= 4.80 + 0.26
= 5.06 Ah (AMP HRS)
MULTIPLY BY DERATING FACTOR OF 1.25 = 6.32 Ah (AMP HRS)

MINIMUM BATTERY SIZE = 6.32 AMPERE HOURS
EXISTING (2) 12.00 Ah 12VDC BATTERIES SUFFICIENT FOR 24VDC OPERATION

VOLTAGE DROP CALCULATIONS
GRANITE HILLS MS EXPANSION PHASE 1

DEVICE	UL MAX. CURRENT AMPS	NO	VISUAL CIRCUIT EXIST	NO	VISUAL CIRCUIT EXIST	NO	VISUAL CIRCUIT EXIST	NO	VISUAL CIRCUIT EXIST	NO	VISUAL CIRCUIT V5
STROBE (CEILING) 15 CD	0.0180		0.000		0.000		0.000		0.000		0.000
STROBE (CEILING) 30 CD	0.0220		0.000		0.000		0.000		0.000		0.000
STROBE (CEILING) 75 CD	0.0700		0.000		0.000		0.000		0.000		0.000
STROBE (CEILING) 95 CD	0.0750		0.000		0.000		0.000		0.000	6	0.450
			0.000		0.000		0.000		0.000		0.000
TOTAL CURRENT ON CIRCUIT			0.000 AMPS		0.000 AMPS		0.000 AMPS		0.000 AMPS		0.450 AMPS
TOTAL WIRE LENGTH IN FEET			EXIST #12		EXIST #12		EXIST #12		EXIST #12		532
% VOLTAGE DROP			**0.00**		**0.00**		**0.00**		**0.00**		**3.88**
WIRE SIZE			#12		#12		#12		#12		#12
CIRCUIT LOCATION			(E) RPSC		(E) RPSC		(E) RPSC		(E) RPSC		(E) RPSC
VOLTS DROPPED			**0.00**		**0.00**		**0.00**		**0.00**		**0.79**

VOLTAGE DROP CALCULATIONS
GRANITE HILLS MS EXPANSION PHASE 1

DEVICE	UL MAX. CURRENT AMPS	NO	AUDIBLE CIRCUIT EXIST	NO	AUDIBLE CIRCUIT EXIST	NO	AUDIBLE CIRCUIT A3	NO	AUDIBLE CIRCUIT NST SPAR
SPEAKER 1/4W	0.0035		0.000		0.000		0.000		0.000
SPEAKER 1/2W	0.0071		0.000		0.000		0.000		0.000
SPEAKER 1W	0.0141		0.000		0.000	6	0.085		0.000
SPEAKER 2W	0.0283		0.000		0.000	4	0.113		0.000
			0.000		0.000		0.000		0.000
			0.000		0.000		0.000		0.000
TOTAL CURRENT ON CIRCUIT			0.000 AMPS		0.000 AMPS		0.198 AMPS		0.000 AMPS
TOTAL WIRE LENGTH IN FEET			EXIST		EXIST		720		EXIST SPAR
% VOLTAGE DROP			**0.00**		**0.00**		**5.84**		**0.00**
WIRE SIZE			#16		#16		#16		#16
CIRCUIT LOCATION			(E) AMPC		(E) AMPC		(E) AMPC		(E) AMPC
VOLTS DROPPED			**0.00**		**0.00**		**1.19**		**0.00**

BATTERY CALCULATIONS GENERAL NOTE:

1. CONTRACTOR TO PROVIDE BATTERY MANUFACTURER DATE STAMP PER NFPA 72. TYPICAL FOR ALL CONTROL PANELS, POWER SUPPLY PANELS AND AUDIO AMPLIFIER PANELS.

VOLTAGE DROP CALCULATIONS GENERAL NOTES:

1. THE LISTED MANUFACTURE OPERATING VOLTAGE RANGE FOR EQUIPMENT AND DEVICES ARE AS FOLLOWS:

   DEVICES = 16 – 33 VDC (STROBES), 70.7 VDC (SPEAKERS)
   EQUIPMENT = +24VDC FILTERED, REGULATED
   BATTERY = 20.4 VDC END OF USEFUL LIFE PER NFPA 72 HANDBOOK AND UL 864.

2. VOLTAGE DROP OPERATING VOLTAGE FORMULA:

$$\left(\frac{\text{WIRE LENGTH} \times \text{TOTAL CURRENT AMPS} \times 21.6}{\text{CIRC. MILS.}}\right) = \text{VOLTS DROPPED}$$

$$\left(\frac{\text{VOLTS DROPPED} \times 100}{20.4}\right) = \text{\% VOLTS DROPPED}$$

$$\text{VOLTS DROPPED} - 20.4 = \text{OPERATING VOLTAGE}$$

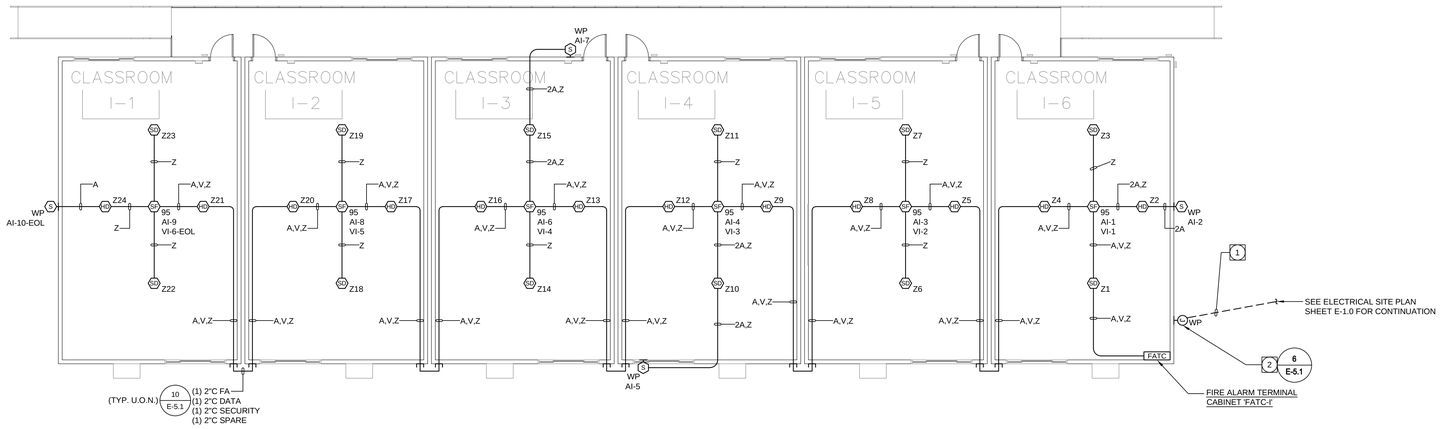
COMPLETE FIRE ALARM SUBMITTAL
AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM WITH EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

FIRE ALARM RISER DIAGRAM AND CALCULATIONS

EFA-0.2

REV. # DATE



ENLARGED BUILDING I - FIRE ALARM PLAN

1/8" = 1'-0"

PLAN NOTES:

1. PROVIDE THE FOLLOWING UNDERGROUND CONDUITS WITH CONDUCTORS AS SPECIFIED:
   - (1) 2"C FA
   - (1) 2"C DATA
   - (1) 2"C SECURITY
   - (1) SPARE
2. PROVIDE WEATHERPROOF 8" x 8" x 4"D PULLBOX FOR FIRE ALARM.

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

LICENSED ARCHITECT
DEREK C. STEMM
NO. C34608
REN.12/27
STATE OF CALIFORNIA

FIRE ALARM PLAN GENERAL NOTES:

1. NOTIFICATION DEVICES IN ROOMS CONTAINING (2) OR MORE AUDIBLE AND/OR (2) OR MORE VISUAL DEVICES SHALL BE SYNCHRONIZED PER NFPA 72. THIS SHALL INCLUDE AUDIBLE AND VISUAL DEVICES LOCATED IN ADJACENT/ADJOINING SPACES.
2. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER / ENGINEER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC. THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR–FLOW, NOR CLOSER THAN 3 FEET (915 mm) FROM ANY AIR SUPPLY DIFFUSER.
4. THE AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIED SPACE WITHIN THE BUILDING PER CFC SECTION 907.5.2.1.1. THE MINIMUM SOUND PRESSURE LEVEL SHALL BE 60 dBA PER NFPA 72, TABLE A.18.4.3.
5. THE VOICE/ALARM COMMUNICATION SYSTEM VOICE MESSAGE SHALL COMPLY WITH NFPA 72, SECTIONS 18.4 AND 24.4 FOR GENERAL REQUIREMENTS, INTELLIGIBILITY, AUDIBILITY, MESSAGE PRIORITY, TONES, ETC.
6. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR PRECISE OUTLET LOCATIONS.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
8. IF SHIELDED WIRE IS USED, THE FOLLOWING MUST BE OBSERVED.
   - A. METALLIC CONTINUITY OF THE SHIELD MUST BE MAINTAINED AND INSULATED THROUGHOUT THE ENTIRE LENGTH OF THE CABLE.
   - B. THE ENTIRE LENGTH OF THE CABLE MUST HAVE A RESISTANCE GREATER THAN 1 MEGOHM TO EARTH.
9. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRE STOP SYSTEM EQUAL TO OR GREATER THAN THE FIRE RATING OF THE STRUCTURE / SURFACE BEING PENETRATED AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE FIRE ALARM SECTION OF THE PROJECT SPECIFICATIONS.
10. A SYSTEM GROUND MUST BE PROVIDED FOR EARTH DETECTION AND LIGHTNING PROTECTION DEVICES. THIS CONNECTION SHALL BE MADE TO AN APPROVED DEDICATED EARTH CONNECTION PER CEC, ARTICLE 250.
11. WIRING IN DUCTS, PLENUMS AND OTHER AIR HANDLING SPACES MUST BE INSTALLED IN ACCORDANCE WITH CEC.
12. UNDERGROUND WIRING MUST BE FREE OF ALL WATER.
13. ALL FIRE ALARM SYSTEM CONDUCTORS SHALL BE RUN IN A DEDICATED FIRE ALARM CONDUIT SYSTEM.
14. WHERE A DETECTOR IS INDICATED TO BE INSTALLED ABOVE THE CEILING AND NO ACCESS TO THE CEILING SPACE EXISTS, THE ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS. THE DETECTOR SHALL BE EASILY ACCESSIBLE AND THE LOCATION OF THE DETECTOR SHALL BE CLEARLY MARKED.
15. FIRE ALARM SYSTEM UTILIZES A COMPLETE COVERAGE, FULLY AUTOMATIC SYSTEM. PROVIDE RELAY MODULE(S) AT FATC/FACP LOCATIONS FOR CONTROL OF HVAC SHUT DOWN, SMOKE/FIRE DAMPER CLOSURE AND DOOR HOLD RELEASES.
16. WHERE NEW DEVICES (AND ASSOCIATED CONDUIT) CANNOT PHYSICALLY BE MOUNTED CONCEALED IN WALLS, RUN IN PANDUIT SURFACE RACEWAY/WIREWAY (AND DEVICES SHALL BE MOUNTED ON SURFACE OUTLET BOXES). REFER TO SPECIFICATIONS. PROVIDE SIZE OF RACEWAY TO ACCOMMODATE THE REQUIRED CONDUCTORS. WHERE CONDUIT IS INDICATED, PROVIDE SURFACE RACEWAY WITH AN EQUAL CROSS SECTION TO THE DIAMETER OF THE CONDUIT INDICATED.
17. DETECTOR SENSITIVITY SHALL BE TESTED USING MANUFACTURER'S CALIBRATED SENSITIVITY INSTRUMENT OR OTHER CALIBRATED TESTING METHOD. (CFC, SECTIONS 907.8.3 AND 907.8.4)
18. THE VOICE/ALARM COMMUNICATION SYSTEM VOICE MESSAGE SHALL COMPLY WITH NFPA 72 SECTIONS 18.4 AND 24.4 FOR GENERAL REQUIREMENTS, INTELLIGIBILITY, AUDIBILITY, MESSAGE PRIORITY, TONES, ETC. REFER TO NFPA 72 ANNEX D, D.1 THROUGH D.6 FOR DETERMINING THE FUNDAMENTALS OF TEST PROTOCOL AND METHOD OF MEASURING INTELLIGIBILITY.
19. THE EXISTING CAMPUS FIRE ALARM SYSTEM SHALL BE MAINTAINED AND OPERATIONAL AT ALL TIMES DURING ALTERATIONS AND CONSTRUCTION. WHEN PORTIONS OF THE SYSTEM REQUIRE ALTERATIONS, THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE. IF NECESSARY TO SHUT DOWN ENTIRE FIRE ALARM SYSTEM, CONTRACTOR SHALL PROVIDE FIREWATCH FOR ALL OCCUPIED AREAS OF WORK UNTIL THE FIRE ALARM SYSTEM IS RETURNED TO OPERATIONAL SERVICE. FIREWATCH AND SYSTEM/EQUIPMENT IDENTIFICATION SHALL BE PER THE 2025 CFC, CHAPTER 33. LOCAL FIRE AUTHORITY AND OWNER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY SHUT DOWN.

VOICE EVACUATION SPEAKER NOTE:
– ALL INTERIOR SPEAKERS SHALL BE 70 VRMS TAPPED AT 1 WATT, U.O.N.
– ALL EXTERIOR SPEAKERS SHALL BE 70 VRMS TAPPED AT 2 WATTS, U.O.N.

COMPLETE FIRE ALARM SUBMITTAL
AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM WITH EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM

PJHM architects

WSP USA
11870 Pierce Street, Suite 160
Riverside, California 92505
951.299.4160 wsp.com
Project Leader: Nikolas Bruno
Electrical Lead: Reid Cordry
WSP Job #: US0056491.0917

REGISTERED PROFESSIONAL ENGINEER
REID W. SWARTZ
No. E15610
Ex. 12/31/2027
ELECTRICAL
STATE OF CALIFORNIA

GRANITE HILLS MIDDLE SCHOOL
EXPANSION (PHASE 1)
SITE WORK FOR TEMP. HOUSING
ROMOLAND SCHOOL DISTRICT

ENLARGED BUILDING I -
FIRE ALARM PLAN

EFA-1.1

MODULAR CLASSROOM BUILDINGS - 24' X 40'

PC 04-121999

BY

SILVER CREEK MODULAR, INC.

2830 BARRETT AVE, PERRIS, CALIFORNIA 92571

PHONE : (951) 943-5393 FAX : (951) 943-2211

ROMOLAND SCHOOL DISTRICT

GRANITE HILLS TK-8

(6) 24' x 40' CLASSROOM BUILDINGS

SCM PROJECT #11694

GENERAL NOTES	BUILDING DATA	
SEE EQUIVALENT PC SHEET A-0 FOR GENERAL NOTES	SEE EQUIVALENT PC SHEET A-0 FOR BUILDING DATA	SEE EQUIVALENT PC SHEET A-0 FOR SEISMIC DESIGN PARAMETERS

APPLICABLE STANDARDS

SEE EQUIVALENT PC SHEET A-0 FOR APPLICABLE STANDARDS

APPLICABLE CODES

SEE EQUIVALENT PC SHEET A-0 FOR APPLICABLE NOTES

SHT NO.	PROJECT SPECIFIC
A-0N	PROJECT SPECIFIC RESTROOM COVER SHEET
A-1.00N	PROJECT SPECIFIC COMPOSITE FLOOR PLAN
A-1.01N	PROJECT SPECIFIC FLOOR PLAN - 24' x 40'
A-3.03N	PROJECT SPECIFIC ROOF PLAN
A-4.04N	PROJECT SPECIFIC EXTERIOR ELEVATIONS
SHT NO.	**FOUNDATION**
A-F.001N	PROJECT SPECIFIC FOUNDATION PLAN
SHT NO.	**ELECTRICAL**
E-1.01N	PROJECT SPECIFIC ELECTRICAL PLANS
SHT NO.	**RAMP**
R-1.03N	PROJECT SPECIFIC RAMP LANDING

	PC SHEETS
A-0	COVER SHEET
A-0A	T & I FORMS
A-0B	T & I FORMS
A-0.1	SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE
A-0.2	SCHEDULES
A-0.3	TYPICAL KEY PLANS - 24' TO 120' x 40'
A-0.53	DESIGN ENERGY VALUES - WOOD FLOOR - WALL HVAC
A-0.54	PRF FORMS - ZONE 24x40 - 14 WORST CASE
A-0.55	PRF FORMS - ZONE 24x40 - 15 WORST CASE
A-0.56	PRF FORMS - ZONE 24x40 - 16 WORST CASE
A-0.6A	CERTIFICATE OF COMPLIANCE FORMS
A-0.6B	CERTIFICATE OF COMPLIANCE FORMS
A-0.6C	CERTIFICATE OF COMPLIANCE FORMS
A-0.7	ENERGY MANDATORY MEASURES & CALGREEN SPEC'S
A-1.01	FLOOR PLAN - 24' x 40'
A-2.01	REFLECTED CEILING PLAN - 24' x 40'
A-2.20	CEILING DETAILS - T-GRID
A-3.03	ROOF PLAN - 48' -120' x 40' - METAL DECK - MONO SLOPE
A-3.50	ROOF DETAILS - STANDING SEAM ROOF DECK
A-4.04	EXTERIOR ELEVATIONS - 48' TO 120' x 40' - MONO SLOPE
A-5.01	CROSS SECTION - MONO SLOPE
A-5.05	CROSS SECTION
A-5.50	ARCHITECTURAL DETAILS - WOOD STUD - SHTG
A-5.70	ARCHITECTURAL DETAILS - FLOOR
A-5.80	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-5.81	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-6.01	INTERIOR ELEVATIONS - 24' x 40'
SHT NO.	**FOUNDATION**
F-0.01	WOOD FOUNDATION PLAN - 24' x 40' (50 PSF)
F-0.50	FOUNDATION DETAILS - WOOD
SHT NO.	**STRUCTURAL**
S-0.1	STRUCTURAL SPECIFICATIONS
S-1.01	FLOOR FRAMING PLAN - WOOD FLOOR
S-1.50	FLOOR FRAMING PLAN - WOOD FLOOR
S-2.01	ROOF FRAMING PLAN - MONO SLOPE
S-2.50	ROOF FRAMING DETAILS - MONO SLOPE
S-2.60	ROOF FRAMING DETAILS
S-2.90	ROOF FRAMING DETAILS - TRUSS
S-3.01	BUILDING SECTION - MONO SLOPE
S-5.00	WALL FRAMING ELEVATIONS - WOOD STUDS
S-5.10	WALL FRAMING DETAILS - WOOD STUDS
S-5.11	WALL FRAMING DETAILS - WOOD STUDS
SHT NO.	**MECHANICAL**
M-0.1	MECHANICAL NOTES, SCHEDULES, AND DETAILS
M-1.01	MECHANICAL PLAN - WALL MOUNT - 24' x 40'
SHEET	**ELECTRICAL**
E-1.01	ELECTRICAL PLAN AND SCHEDULE - 24' x 40'
SHEET	**RAMP**
R-1.03	RAMP LANDING
R-2.01	RAMP DETAILS

TOTAL SHEETS 52

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PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS TK-8
(6) 24' x 40'
CLASSROOM BUILDINGS

SHEET TITLE:

COVER SHEET

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

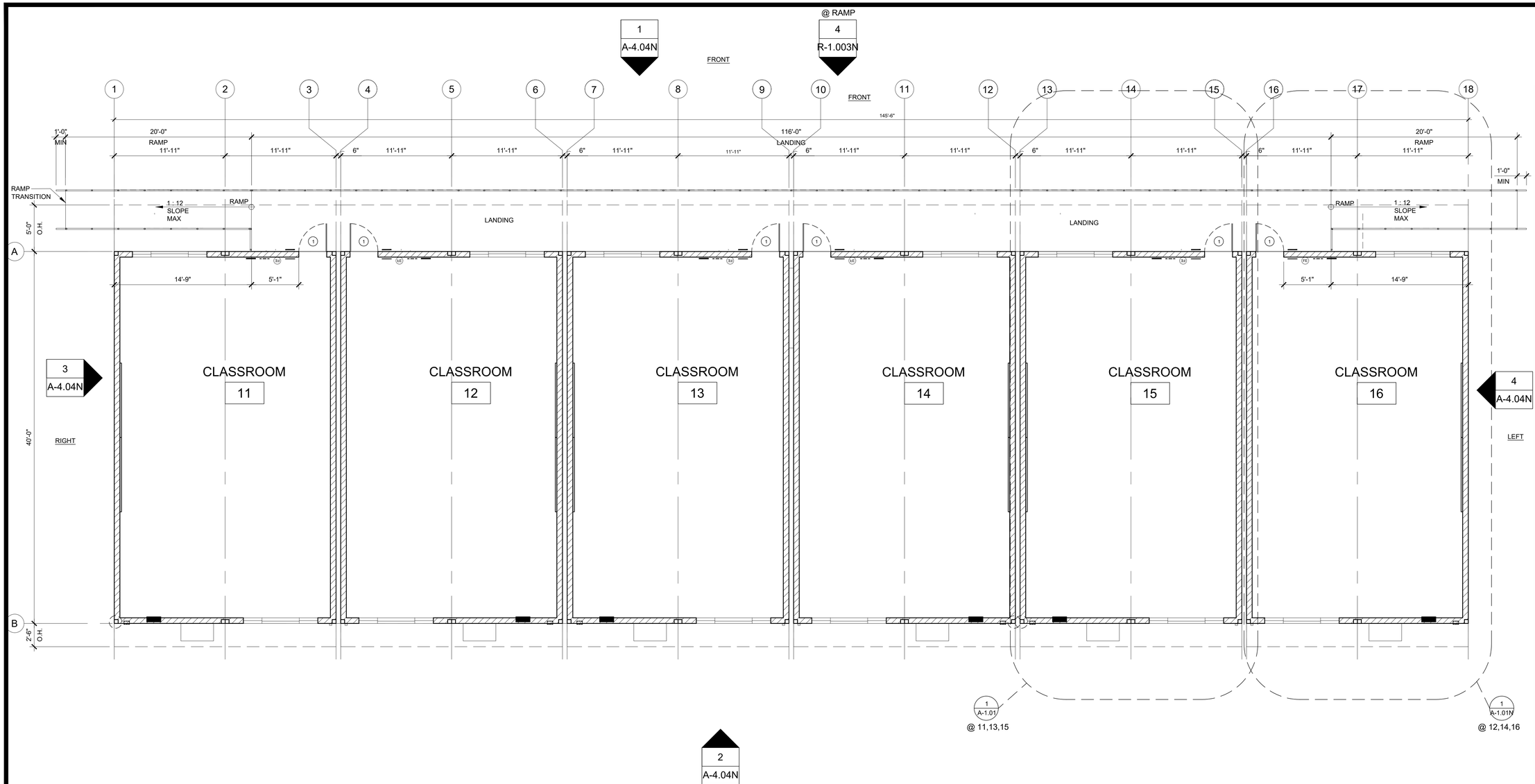
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	11694
DRAWN BY:	MG
SCALE:	AS NOTED
DATE:	07-28-2026

P.C. SHEET NUMBER

A-0N



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PROJECT NAME:

GRANITE HILLS TK-8
(6) 24' x 40'
CLASSROOM BUILDINGS

SHEET TITLE:

COMPOSITE FLOOR PLAN
(6) 24' x 40'

REVISIONS

1	
2	
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REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES	24' x 40' PC
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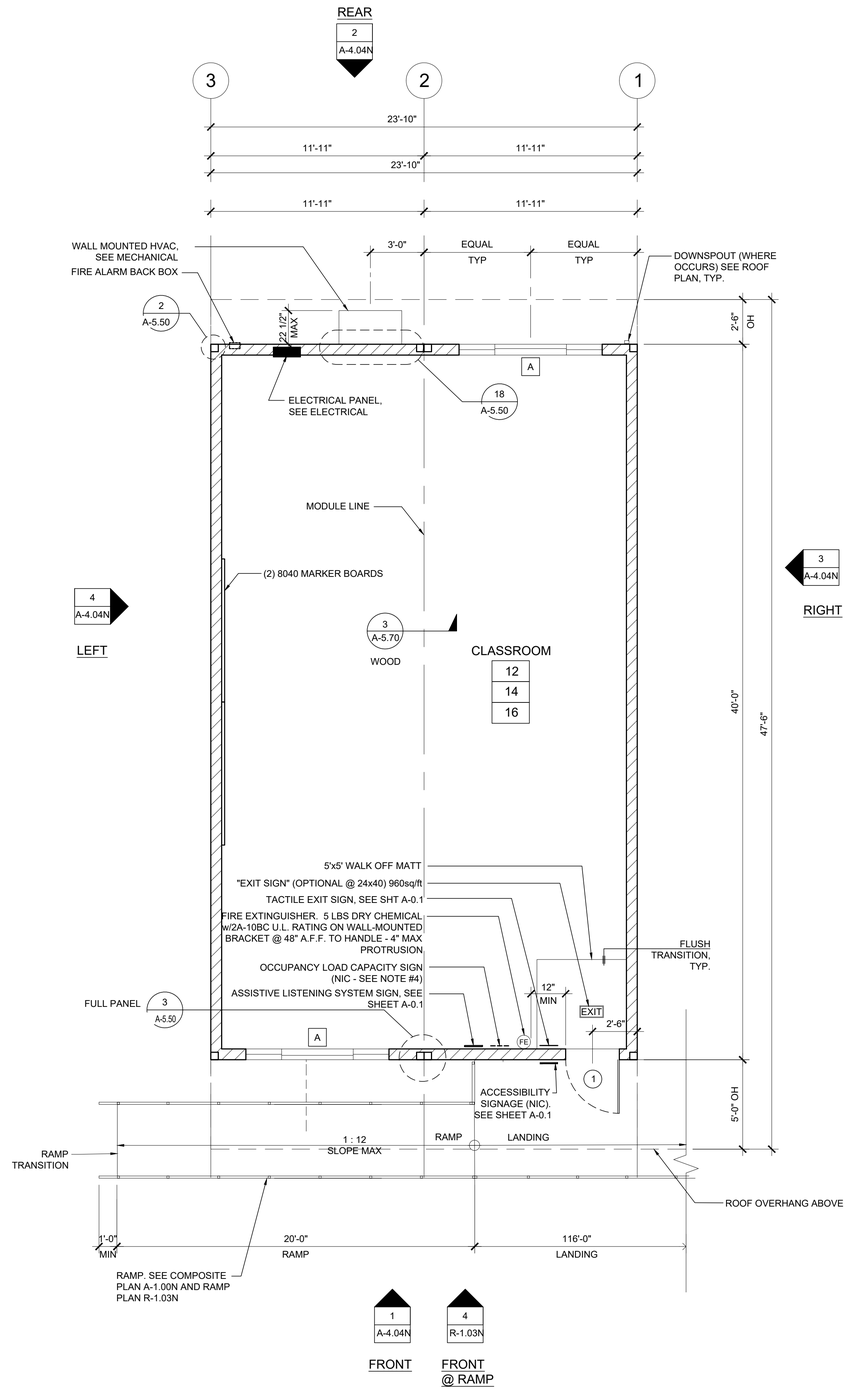
A-1.00N

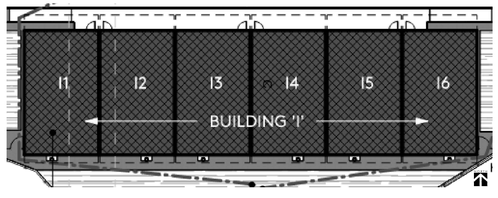
COMPOSITE FLOOR PLAN

SCALE: 3/16" = 1' - 0" | 1



THIS ORIENTATION OCCURS @ CLASSROOMS 12, 14 & 16

NORTH



KEY MAP

FLOOR PLAN - B

SCALE: 1/4" = 1' - 0"

NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. PER IR 16-1.13 (2.1)
   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 2019 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = S_S
2. VINYL TACKBOARD INTERIOR FINISH SHALL COMPLY WITH CBC SECTION 803.7
3. LOCATIONS OF DOORS AND WINDOWS MAY VARY PER JOB. (IF THE NUMBER OF WINDOWS INCREASE, A NEW TITLE 24 SHALL BE SUBMITTED TO DSA)
4. POSTING OF OCCUPANCY LOAD SIGNS SHALL COMPLY WITH CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 ART. 3.30 (NOT IN MODULAR MANUFACTURER'S SCOPE OF WORK
5. IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS
6. FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBES, PER IR 16-1.13 (2.1)
7. ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION
8. INTERIOR WALLS MAY BE ADDED TO FLOOR PLAN. SEE STRUCTURAL
9. FOR CASEWORK, TEACHER WALL, OR TV BLOCKING OPTIONS, SEE SHEET A-5.80
10. INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. SEE SHEET A-0.7 FOR WALL ASSEMBLY
11. TOILET ROOM FLOORING AND BASE SHALL BE INSTALLED PER 10/A-5.70 IN LIEU OF PROVIDING A CURB (IR 23-2)

DETAIL SCHEDULE

FINISH:	SHEET #:
☒ SIDING OVER WOOD STUDS	A-5.50
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

FIRE PROTECTION:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

WALL LEGEND

NOMINAL 4" WALL STUD ☒
NOMINAL 6" WALL STUD ☐
NOMINAL 8" WALL STUD ☐

A WINDOW PER SCHEDULE SHEET A-0.2
DOOR PER SCHEDULE SHEET A-0.2

NOTES:
ALL EXTERIOR WALL FRAMING SHALL BE 2x6 (OR 6" NOMINAL STEEL STUD) (MIN). EXCEPTION: AT UNCONDITIONED RESTROOM MODULES.

2x4 (OR 4" NOMINAL STEEL STUD) WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH AT UNCONDITIONED RESTROOM MODULES WITH WALLS OVER 9'-0" IN HEIGHT.

THIS PLAN MAY INCLUDE THE VARIOUS EXERCISABLE OPTIONS APPLICABLE TO THE PC SUCH AS PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS CAN BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES.

SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

MARKING & IDENTIFICATION OF FIRE RATED CONSTRUCTION. (CBC 703.7)
FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:

1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES;
2. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
3. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT AND A MIN. 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING. "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER SIMILAR WORDING.

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PROJECT NAME:

GRANITE HILLS TK-8
(6) 24' x 40'
CLASSROOM BUILDINGS

SHEET TITLE:

FLOOR PLAN
24' x 40'

REVISIONS
1
2
3
4
5

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24975
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

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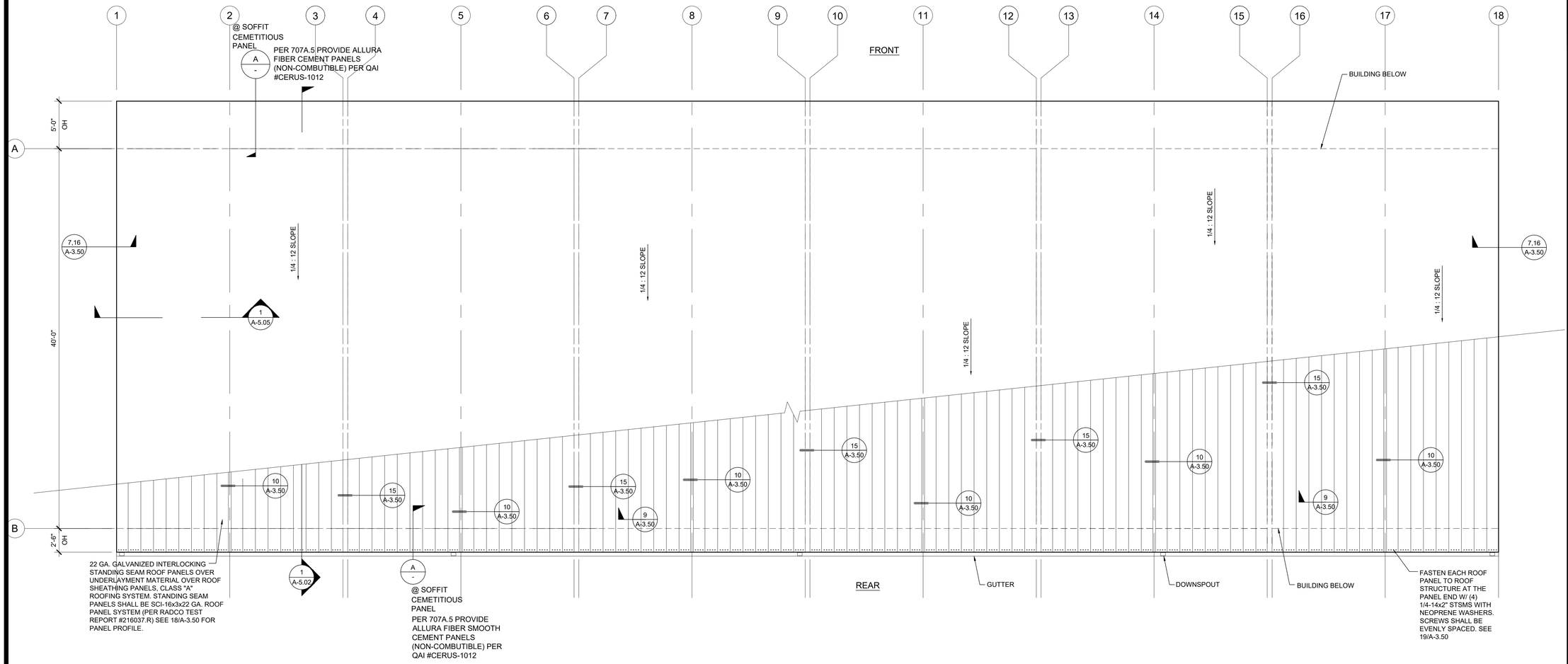
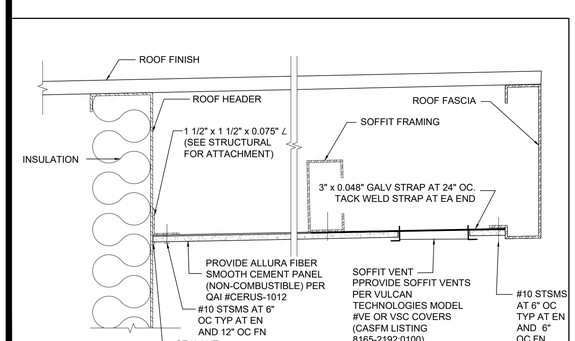
A-1.01N





SOFFIT AT ROOF HEADER WITH VENT-CWUIC SCALE : 3" = 1'-0" | A

COMPOSITE ROOF PLAN SCALE: 3/16" = 1' - 0" | 1

NORTH

SEE PC SHEET A-3.03 FOR NOTES, ROOF SYSTEM CAPACITY AND ETC.

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(6) 24' x 40'
CLASSROOM BUILDINGS

SHEET TITLE:

PROJECT SPECIFIC ROOF PLAN
(6) 24' x 40'

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REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

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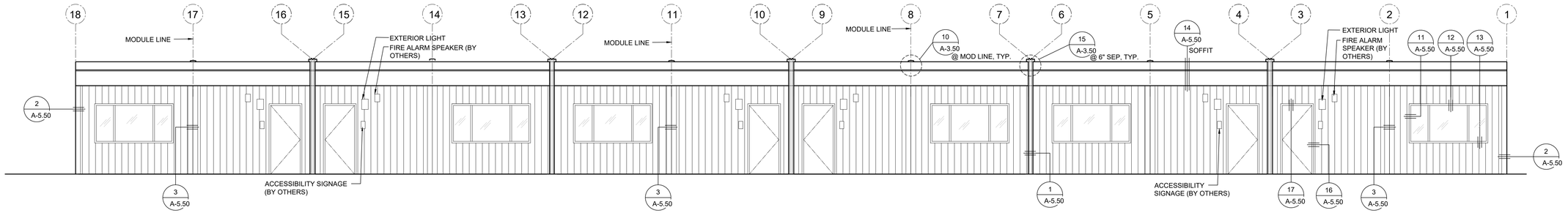
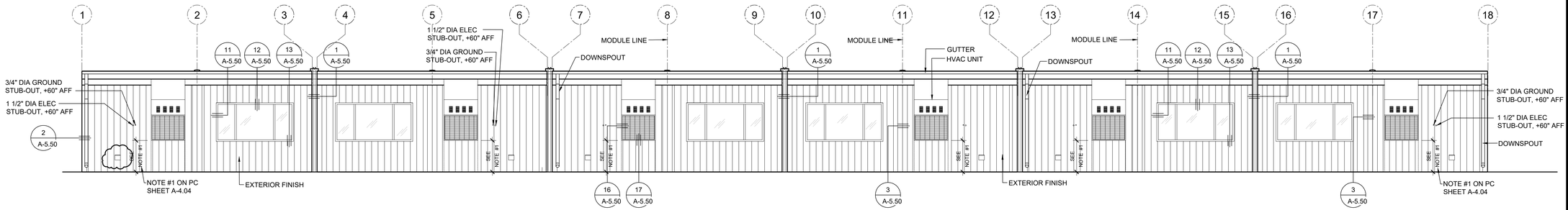


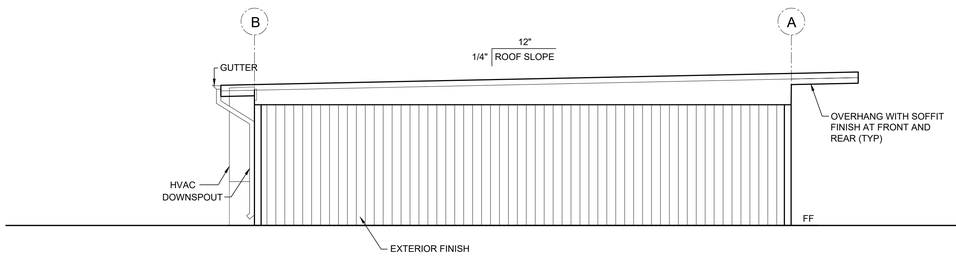
EXTERIOR ELEVATIONS - FRONT - MONO SLOPE

SCALE: 3/16" = 1' - 0" | 1



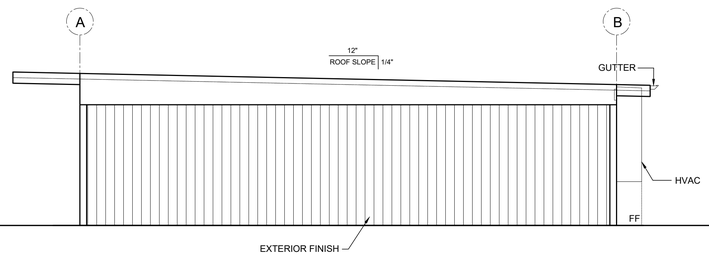
EXTERIOR ELEVATIONS - REAR - MONO SLOPE

SCALE: 3/16" = 1' - 0" | 2



EXTERIOR ELEVATIONS - LEFT - MONO SLOPE

SCALE: 3/16" = 1' - 0" | 4



EXTERIOR ELEVATIONS - RIGHT - MONO SLOPE

SCALE: 3/16" = 1' - 0" | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS TK-8
(6) 24' x 40'
CLASSROOM BUILDINGS

SHEET TITLE:

EXTERIOR ELEVATION
48' TO 120' X 40'
MONO SLOPE

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

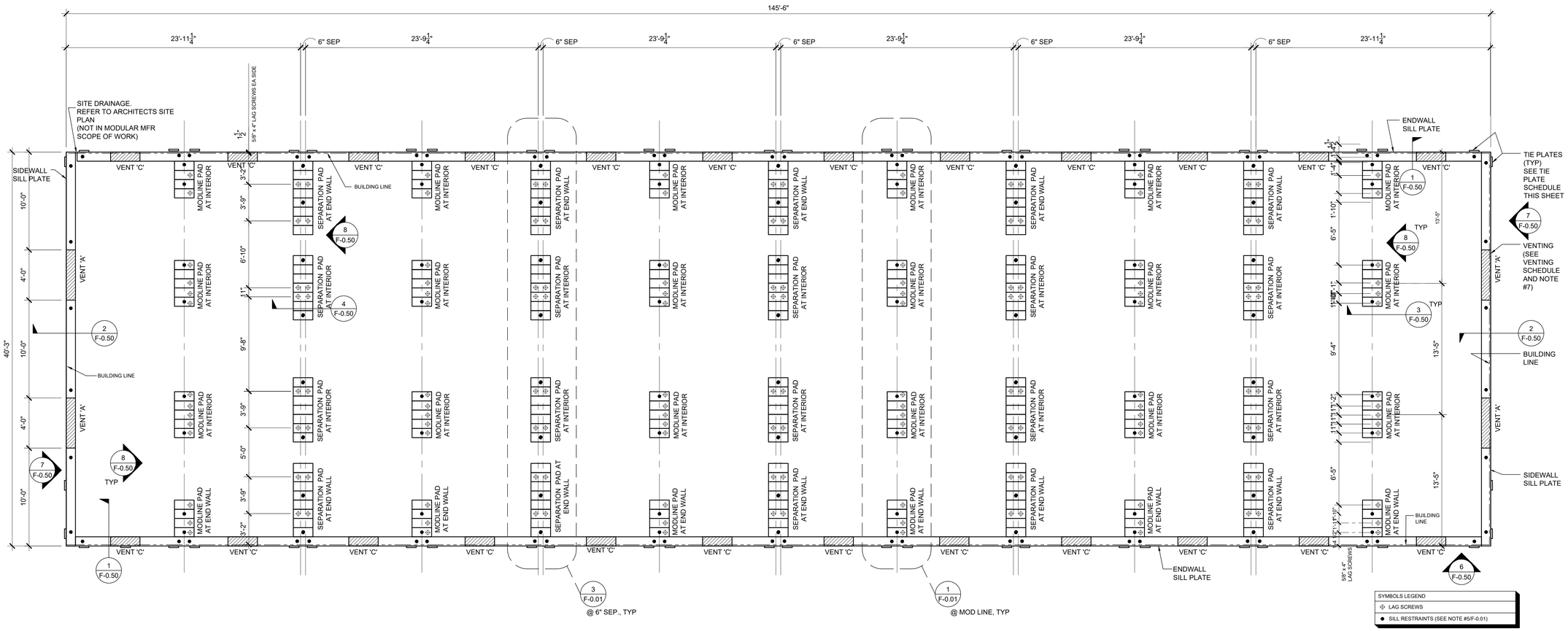
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	11694
DRAWN BY:	MG
SCALE:	AS NOTED
DATE:	07-28-2026

P.C. SHEET NUMBER

A-4.04N



FOUNDATION PLAN

SCALE: 1/4" = 1' - 0" | 1

145'-0" x 40' BUILDING:

@ CRAWL SPACE = INTERIOR PREIMETER OF RAISED WOOD FOUNDATION = 5,505 SF
5,505 SF / 150 = 36.7 REQUIRED VENTILATION

(4) - "A" VENT @ 2.56 SF EA = 10.24 SF
(12) "C" VENT @ 1.125 SF EA = 27.00 SF
TOTAL VENTILATION PROVIDED = 37.24 SF

37.24 SF PROVIDED > 36.70 REQUIRED VENTILATION

VENTING SCHEDULE

BUILDING SIZE	(2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE
24' x 40'	5" OC AT ENDWALL - 1 / F-0.50B 12" OC AT SIDEWALL - 2 / F-0.50B 10" OC AT SEPARATION - 4 / F-0.50B

	BUILDING SIZE	BUILDING AREA	REQUIRED VENTING	SIDE VENTING	TOTAL VENTING SUPPLIED
W/O PARAPET	24' x 40'	960 SF	6.4 SF (1/150)	5.125' x 6" = (4) 2.56 SF/EA	10.25 SF SEE NOTE #8

BUILDING SIZE	SIDE WALL TIE PLATES	END WALL TIE PLATES	TOTAL NUMBER OF TIE PLATES
24' x 40'	4	7	22

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PROJECT NAME:

GRANITE HILLS TK-8
(6) 24' x 40'
CLASSROOM BUILDINGS

SHEET TITLE:

WOOD FOUNDATION PLAN
24x40
(50 PSF)

REVISIONS

1	
2	
3	
4	
5	

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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

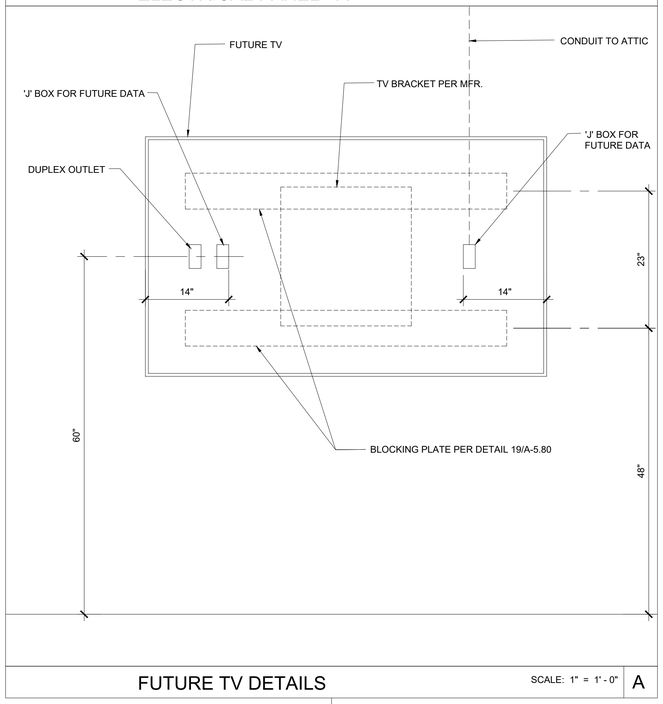
PROJECT NO:	11694
DRAWN BY:	MG
SCALE:	AS NOTED
DATE:	07-28-2026

P.C. SHEET NUMBER

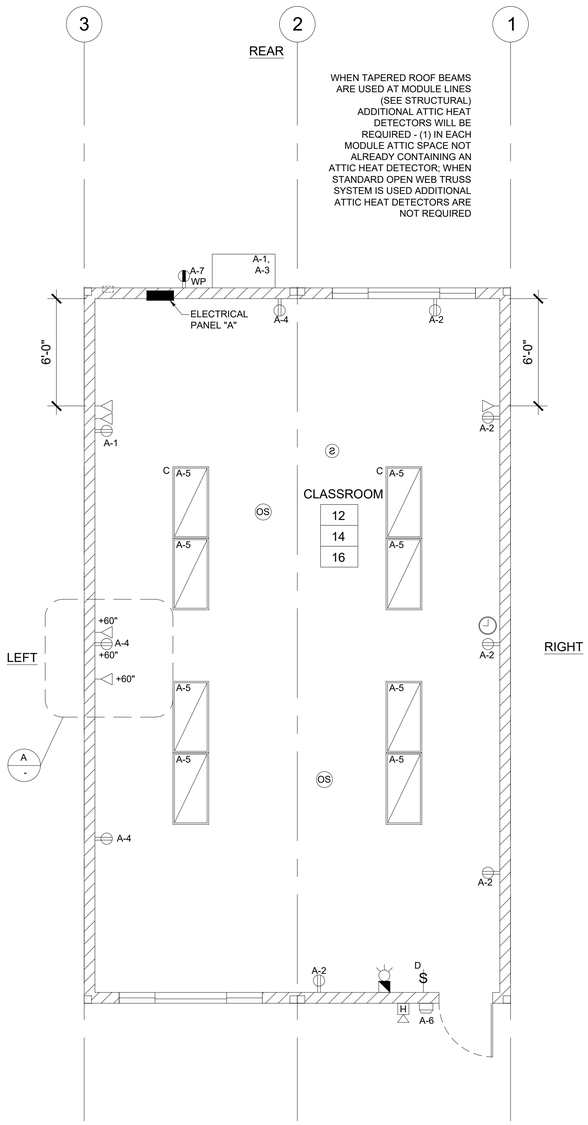
F-0.01N

PANEL: A	PHASE:			VOLTS:		BUSS:			MAIN:				LOCATION:			FEED:				MOUNTING:
S/N:	SINGLE			120/208		100 AMP			100 AMP				INTERIOR			REAR				RECESSED
OBJECT	WATT	NO.		WATTS				WIRE	CKT	LEG		CKT	WIRE			WATTS			NO	WATT	OBJECT
DESCRIPTION	PER	OF	LCL	A	B	BRK	POLE	SIZE	NO	A	B	NO	SIZE	POLE	BRK	A	B	LCL	OF	PER	DESCRIPTION
5 TON A/C	4830	1		4830		60	2	#6	1	X		2	#12	1	20	900			5	180	RECEPTS
5 TON A/C	4830	/			4830	/	/	#6	3		X	4	#12	1	20		360		2	180	RECEPTS
LIGHTS	65	8	X	520		20	1	#12	5	X		6	#12	1	20	45		X	1	45	EXT LIGHT
RECEPTACLE-WP	180	1			180	20	1	#12	7		X	8	#12	1	20		0				
				0		20	1	#12	9	X		10	#12	1	20	180			1	180	FIRE ALARM
					0	20	1	#12	11		X	12	#12	1	20		180		1	180	LOW VOLTAGE
	LEG TOTALS			5350	5010											1125	540	LEG TOTALS			
LCL=141.25+12025=12166.25																					
TOTAL WATTS=12166.25						LEG BALANCE = 7.7%										TOTAL AMPS: 58.49					

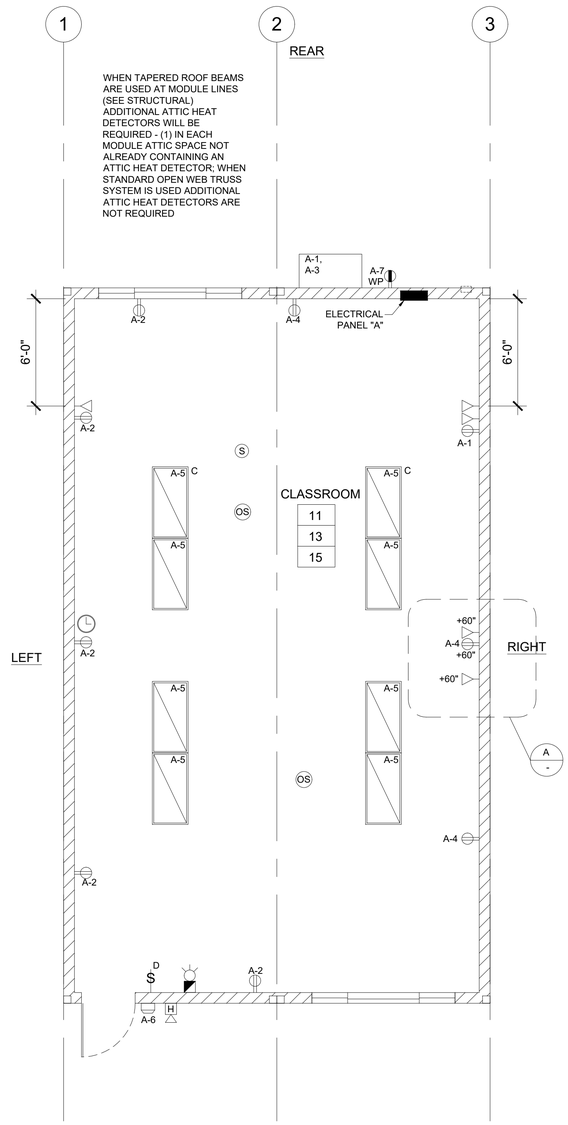
ELECTRICAL PANEL - A



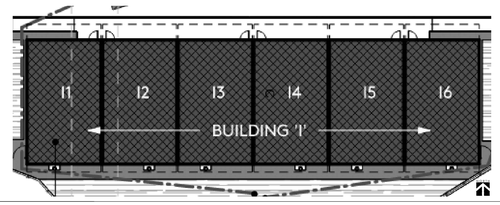
FUTURE TV DETAILS — SCALE: 1" = 1' - 0" — A



@ CLASSROOMS 12, 14 & 16



@ CLASSROOMS 11, 13 & 15



KEY MAP

FLOOR PLAN - B — SCALE: 1/4" = 1' - 0" — 2

FLOOR PLAN - A — SCALE: 1/4" = 1' - 0" — 1

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PROJECT NAME:

GRANITE HILLS TK-8
(6) 24' x 40'
CLASSROOM BUILDINGS

SHEET TITLE:

ELECTRICAL PLAN
AND SCHEDULE
24' x 40'

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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Silver Creek
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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

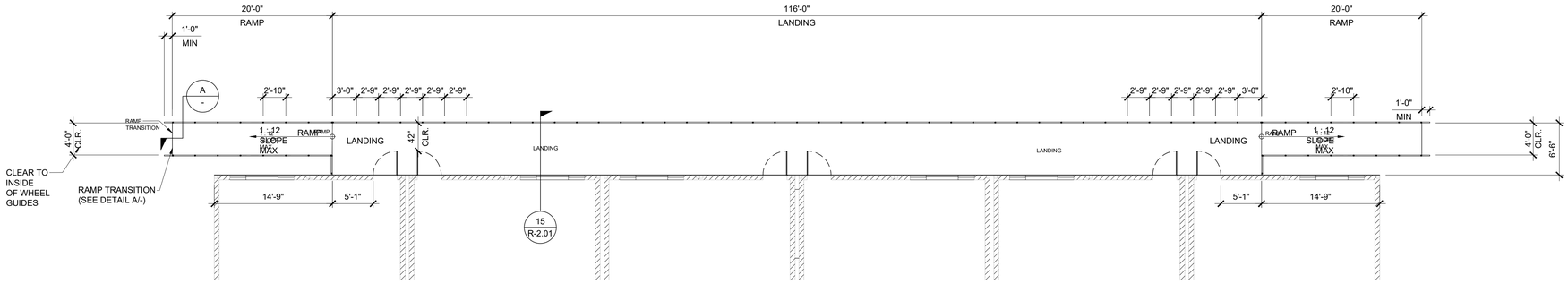
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
2975
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	11694
DRAWN BY:	MG
SCALE:	AS NOTED
DATE:	07-28-2026

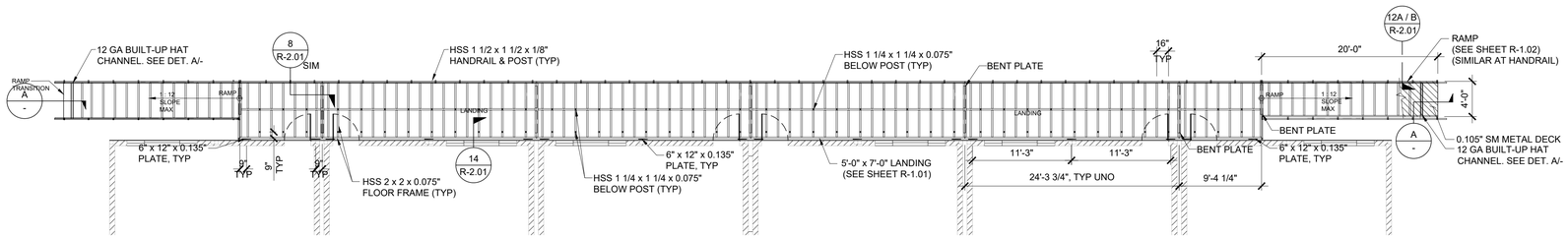
P.C. SHEET NUMBER

E-1.01N



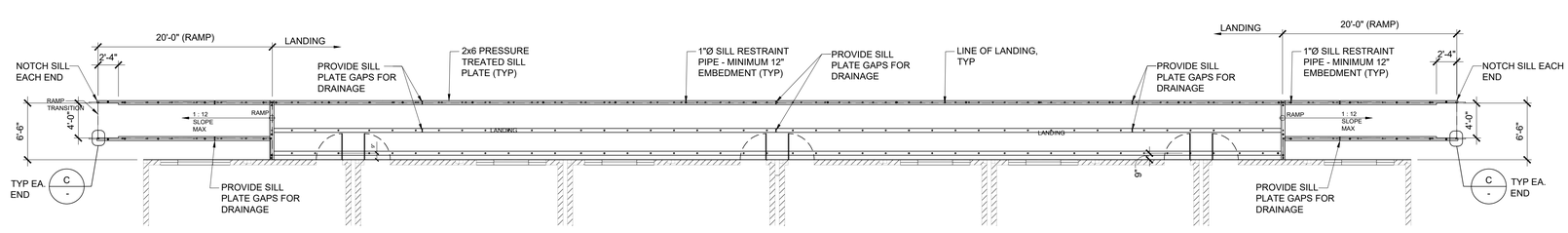
PROJECT SPECIFIC LANDING PLAN

SCALE: 1/8" = 1' - 0" | 1



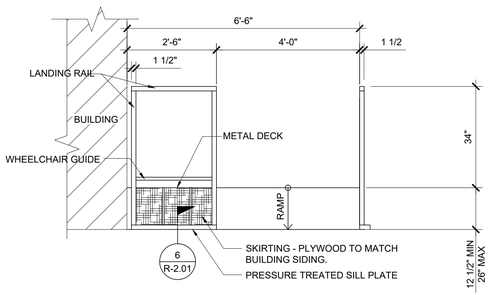
PROJECT SPECIFIC LANDING FRAME

SCALE: 1/8" = 1' - 0" | 2



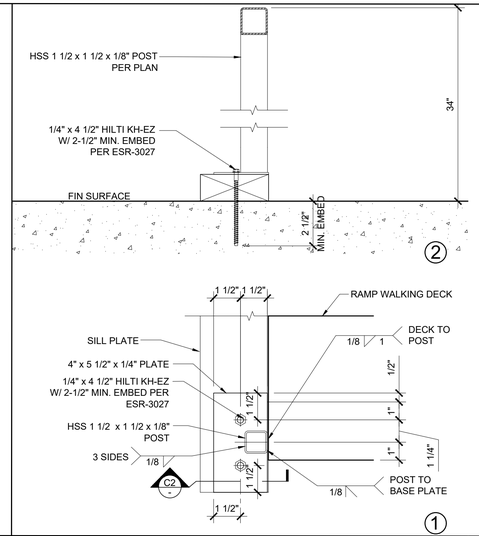
PROJECT SPECIFIC SILL PLAN

SCALE: 1/8" = 1' - 0" | 3



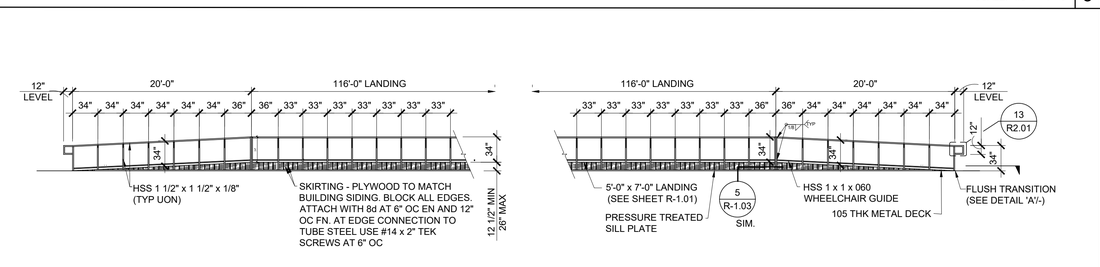
PROJECT SPECIFIC RAMP SIDE ELEVATION

SCALE: 1/2" = 1' - 0" | 5



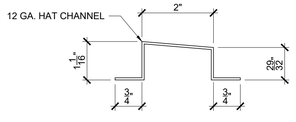
END OF RAMP GUARDRAIL POST

SCALE: 3" = 1' - 0" | C



PROJECT SPECIFIC RAMP AND LANDING ELEVATION

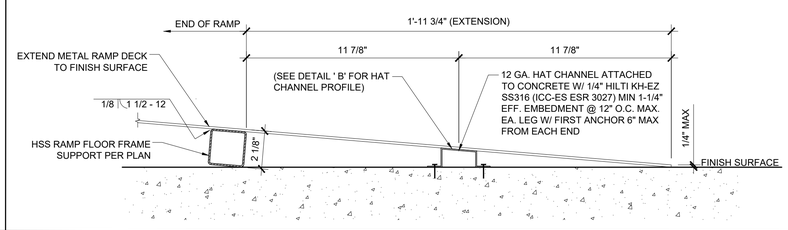
SCALE: 1/8" = 1' - 0" | 4



HAT CHANNEL PROFILE

HAT CHANNEL PROFILE

SCALE: 6" = 1' - 0" | B



PROJECT SPECIFIC TRANSITION AT BOTTOM OF RAMP

SCALE: 3" = 1' - 0" | A

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PROJECT NAME:

GRANITE HILLS TK-8
(6) 24' x 40'
CLASSROOM BUILDINGS

SHEET TITLE:

RAMP LANDING

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24275
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	11694
DRAWN BY:	MG
SCALE:	AS NOTED
DATE:	07-28-2026

P.C. SHEET NUMBER

R-1.03N

MODULAR CLASSROOM BUILDINGS

~~(WITH OPTIONAL RESTROOM MODULES)~~

BUILDING SIZE: 24' X 40'
EXPANDABLE TO 120' X 40'

PC 04-121999

BY

SILVER CREEK MODULAR, INC.

2830 BARRETT AVE, PERRIS, CALIFORNIA 92571

PHONE : (951) 943-5393 FAX : (951) 943-2211

ROMOLAND SCHOOL DISTRICT

GRANITE HILLS TK-8

200 ETHANAC ROAD, PERRIS CA 92570

PROJECT # 11694

GENERAL NOTES

1. FIRE ALARM IS NOT PART OF THIS APPROVAL.
2. ALLOWABLE AREA IS BASED ON 10' SET BACK FROM IMAGINARY ASSUMED LINE PER 2022 CBC 705.3.
3. THIS PC IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.
4. PC IS DESIGNED AS A SINGLE STORY MODULAR BUILDING.
5. FOR SOILS TYPES / DESIGN BEARING STRENGTH, SEE STRUCTURAL SPECIFICATIONS.
6. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
7. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES.
8. EXTERIOR WALL OPENINGS TO COMPLY W/ 705.8, 2022 CBC. THE USE OF UNPROTECTED OPENINGS SHALL BE VERIFIED IN THE PROJECT SPECIFIC APPLICATIONS.
9. EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED WHERE REQUIRED BY SECTIONS 705.2 & 1405.
10. SEE SHEETS A-0.7 FOR REQUIRED BUILDING ENVELOPE ASSEMBLIES AND HVAC SYSTEM.
11. PURSUANT TO D.S.A. APPROVAL ALL PRODUCTS CAN BE SUBSTITUTED BY AN "EQUAL".
12. BUILDING(S) TO BE LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR ANY WILDLAND - URBAN INTERFACE FIRE AREA SHALL COMPLY WITH CBC CHAPTER 7A.
13. WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES NEED TO COMPLY WITH CALGREEN CODE, SECTION 5.507.4 FOR THE SITE SPECIFIC LOCATION.
14. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO THE SAME PC CLASSROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR-CEILING SHALL MEET THE MINIMUM REQUIREMENTS OF THE STC RATING OF 40 PER CALGREEN CODE, SECTION 5.507.4.3.
15. FOR THE CONCRETE BELOW GRADE (AMM*) FOUNDATION OPTION THIS PC USES A DSA APPROVED ALTERNATE MEANS OF COMPLIANCE WITH THE FOUNDATION DURABILITY REQUIREMENTS OF CBC 1402.2 + 1403.2 (WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESTISTIVE BARRIER ON WALLS TO FOUNDATION) + 2304.12.1.2 (PROTECTION AGAINST DECAY AND TERMITES). DETAILS ARE PROVIDED ON SHEETS A-5.71 - A-5.78 AS APPLICABLE.
16. THE BUILDING PAD ELEVATION SHALL ABOVE THE DESIGN FLOOD ELEVATION.
17. WHEN THE SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A SEALED LETTER FROM A GEOTECHNICAL ENGINEER SHALL BE PROVIDED TO VALIDATE THE APPLICABILITY OF THE ALLOWABLE SOIL BEARING PRESSURES INDICATED ON THE PC DRAWINGS.
EXCEPTION: THIS LETTER IS NOT REQUIRED FOR PROJECTS LOCATED IN FLOOD ZONE D WHEN A GEOTECHNICAL REPORT IS AVAILABLE FOR IMPROVEMENTS ON THE SAME PROJECT SITE, AND IN ACCORDANCE WITH THE CURRENT CBC, WHICH CONFIRMS THAT THE SITE IS NOT IN A FLOOD HAZARD ZONE OR CONFIRMS THAT THE FLOOD HAZARD DOES NOT RESULT IN A REDUCTION OF SOIL CAPACITY VALUES.

APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CA. AMENDED)	2022 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2022 EDITION
ACI 318	BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE	2019 EDITION
ASME A17.1 (W/A17.1A CSA B44A-2019 ADDENDA) SAFETY CODE FOR ELEVATORS & ESCALATORS.		2007 EDITION

APPLICABLE CODES

LIST OF 2022 CALIFORNIA CODE OF REGULATIONS

2022 BUILDING ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.

2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.

2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.

2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.

2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.

2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

BUILDING DATA

NUMBER OF STORIES:	1 - STORY	
OCCUPANCY:	E or B	
TYPE OF CONSTRUCTION:	V-B	
FLOOR LIVE LOAD:	☑ 50 PSF ☐ 100 PSF	☐ 50+15 PSF PARTITION LOAD ☐ 150 PSF
ROOF LIVE LOAD:	20 PSF	
FLOOR DEAD LOAD:	☑ WOOD FLOOR - 11 PSF	☐ CONCRETE FLOOR - 35 PSF
ROOF DEAD LOAD:	18 PSF (INCLUDING SPRINKLER LOAD AND SOLAR ALLOWANCE)	
SOLAR ALLOWANCE:	0.6 PSF OVER ENTIRE ROOF AREA	
RAMP LIVE LOAD:	100 PSF	
BUILDING AREA:	☑ 24'x40' BLDG - 960 S.F.	☐ 84'x40' BLDG - 3,360 S.F.
	☐ 36'x40' BLDG - 1,440 S.F.	☐ 96'x40' BLDG - 3,840 S.F.
	☐ 48'x40' BLDG - 1,920 S.F.	☐ 108'x40' BLDG - 4,320 S.F. ★
ALLOWABLE AREA: 9,000 S.F.	☐ 60'x40' BLDG - 2,400 S.F.	☐ 120'x40' BLDG - 4,800 S.F. ★
	☐ 72'x40' BLDG - 2,880 S.F.	★ SEE S-0.1 FOR GEOTECHNICAL REPORT REQUIREMENT
(ALL w/o OVERHANGS)		
FOUNDATION:	☑ WOOD (CONDITIONAL) ☐ CONCRETE ABOVE GRADE ☐ CONCRETE BELOW GRADE (<2,160 SF, CONDITIONAL) ☐ CONCRETE BELOW GRADE (AMM, SEE NOTE 15)	
CEC CLIMATE ZONE:	☑ ALL ZONES (1-16)	☐ SINGLE ZONE (SEE PROJECT SPECIFIC DRAWINGS)

ALLOWABLE SOIL PRESSURE

WOOD FOOTING (DL & DL+LL & DL+LL+SEISMIC)	1,000 psf
CONCRETE FOOTING (DL & DL+LL & DL+LL+SEISMIC)	1,500 psf

ROOF SNOW LOAD

GROUND SNOW LOAD, P_g FROM COUNTY	0
ROOF SNOW LOAD: ☐ FLAT P_f OR ☐ LOW-SLOW, P_{flt} OR ☐ SLOPED, P_s	
SNOW EXPOSURE FACTOR C_s	-
SNOW IMPORTANCE FACTOR I_s	1.0
THERMAL FACTOR C_t	-

FLOOD DESIGN (SEE GENERAL NOTE #16 + 17)

FLOOD HAZARD AREA	YES ☐ NO ☑

WIND DESIGN

BASIC WIND SPEED (3 SECOND GUST) V_{ult}	120
RISK CATEGORY	II
WIND EXPOSURE CATEGORY	C
TOPOGRAPHIC FACTOR K_{zt}	1

SEISMIC DESIGN

LATERAL FORCE-RESISTING SYSTEM	OMF
ANALYSIS PROCEDURE	EQIV. LATERAL FORCE
SEISMIC DESIGN CATAGORY (SDC)	E
SEISMIC IMPORTANCE FACTOR I_e	1.0
SEISMIC RESPONSE COEFFICIENT C_s	0.45
RESPONSE MODIFICATION COEFFICIENT R	3.5
SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD S_s	2.8
SHORT PERIOD SITE COEFFICIENT F_a	1.2
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD S_{DS}	2.23 +++
MAPPED SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD S_1	1.064 ++
LONG PERIOD SITE COEFFICIENT, F_v	1.7
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD S_{D1}	1.2
HORIZONTAL OR VERTICAL IRREGULARITY TYPES	NONE
REDUNDANCY FACTOR Rho	1.0
FUNDAMENTAL PERIOD T	< 0.5s

++ PER SUPPLEMENT 3 OF ASCE 7-16, STRUCTURES SITUATED IN SITE CLASS D WITH S1 VALUES THAT ARE EQUAL TO OR GREATER THAN 0.2 ARE EXEMPTED FROM THE GROUND MOTION HAZARD ANALYSIS. THIS EXEMPTION APPLIES WHEN THE PARAMETER SM1, DETERMINED THROUGH THE USE OF EQ. 11.4-2, IS ELEVATED BY 50% FOR ALL APPLICATIONS OF SM1

+++ FOR THE PURPOSES OF CALCULATING C_S (PER ASCE 7-16 12.8.1.3) S_{DS} = 1.56

FOR SITE SPECIFIC PROJECT

☐ SOLAR PV IS REQUIRED AND REFERENCE SHEET A-0.7

☐ GEOTECH REPORT IS REQUIRED

SEISMIC DESIGN FOR SITE SPECIFIC PROJECTS

SELECT ONE

☑ DESIGN BASED ON SITE CLASS $D_{default}$

NO GEOTECHNICAL INVESTIGATION REQUIRED

Ss = 1.441 Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16

GEOTECHNICAL INVESTIGATION PROVIDED

SITE CLASS: ☐ C ☐ D

Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3, TABLE 11.4-1

☐ DESIGN BASED ON SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16

SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{DS}, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION

CGS APPROVAL REQUIRED

NOT ELIGIBLE FOR OTC REVIEW

SITE CLASS: ☐ C ☐ D

$S_{DS} = \frac{2}{3}$ Fa Ss = 1.153

☑ SITE CLASS C or D: 0.7 x S_{DS}* = 0.7 x 1.153 = .8071 ≤ 1.56

C_S = 0.45 USED IN DESIGN

SEISMIC DESIGN CATEGORY: ☑ D ☐ E

* SITE SPECIFIC S_{DS} VALUE BEFORE APPLYING REDUCTION ALLOWED BY ASCE 7 SECTION 12.8.1.3

NOTE:
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.

SHEET INDEX

SHEET	ARCHITECTURAL	SHEET	FOUNDATION
A-0	☑ COVER SHEET	F-0.01	☑ WOOD FOUNDATION PLAN - 24' x 40' (50 PSF)
A-0A	☑ T & I FORMS	F-0.02	☐ WOOD FOUNDATION PLAN - 24' x 40' (50+15 PSF)
A-0B	☑ T & I FORMS	F-0.03	☐ WOOD FOUNDATION PLAN - 24' x 40' (100 PSF)
A-0.1	☑ SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE	F-0.04	☐ WOOD FOUNDATION PLAN - 24' x 40' (150 PSF)
A-0.2	☑ SCHEDULES	F-0.11	☐ WOOD FOUNDATION PLAN - 36' x 40' (50 PSF)
A-0.3	☑ TYPICAL KEY PLANS - 24' TO 120' x 40'	F-0.12	☐ WOOD FOUNDATION PLAN - 36' x 40' (50+15 PSF)
A-0.50	☐ DESIGN ENERGY VALUES - CONC FLOOR - ROOF HVAC	F-0.13	☐ WOOD FOUNDATION PLAN - 36' x 40' (100 PSF)
A-0.51	☐ DESIGN ENERGY VALUES - CONC FLOOR - WALL HVAC	F-0.14	☐ WOOD FOUNDATION PLAN - 36' x 40' (150 PSF)
A-0.52	☐ DESIGN ENERGY VALUES - WOOD FLOOR - ROOF HVAC	F-0.21	☐ WOOD FOUNDATION PLAN - 48' x 40' (50 PSF)
A-0.53	☑ DESIGN ENERGY VALUES - WOOD FLOOR - WALL HVAC	F-0.22	☐ WOOD FOUNDATION PLAN - 48' x 40' (50+15 PSF)
A-0.54	☑ PRF FORMS - ZONE 24x40 - 14 WORST CASE	F-0.23	☐ WOOD FOUNDATION PLAN - 48' x 40' (100 PSF)
A-0.55	☑ PRF FORMS - ZONE 24x40 - 15 WORST CASE	F-0.24	☐ WOOD FOUNDATION PLAN - 48' x 40' (150 PSF)
A-0.56	☑ PRF FORMS - ZONE 24x40 - 16 WORST CASE	F-0.50	☑ FOUNDATION DETAILS - WOOD
A-0.57	☐ PRF FORMS - ZONE 36x40 - 14 WORST CASE		
A-0.58	☐ PRF FORMS - ZONE 36x40 - 15 WORST CASE	F-1.01	☐ CONCRETE FOUNDATION PLAN - ABOVE GRADE - WOOD FLOOR
A-0.59	☐ PRF FORMS - ZONE 36x40 - 16 WORST CASE	F-1.11	☐ CONCRETE FOUNDATION PLAN - ABOVE GRADE - CONCRETE FLOOR
A-0.6A	☑ CERTIFICATE OF COMPLIANCE FORMS	F-1.50	☐ CONCRETE FOUNDATION DETAILS - ABOVE GRADE
A-0.6B	☑ CERTIFICATE OF COMPLIANCE FORMS	F-2.01	☐ CONCRETE FOUNDATION PLAN - BELOW GRADE - WOOD FLOOR
A-0.6C	☑ CERTIFICATE OF COMPLIANCE FORMS	F-2.11	☐ CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETE FLOOR
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A-0.6E	☐ TWO MODULE TOILET BUILDING COMPLIANCE FORMS	F-2.51	☐ FOUNDATION DETAILS - CONCRETE
A-0.7	☑ PV SYSTEM REQ'S, ENERGY MANDATORY MEASURES & CALGREEN SPEC'S		
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A-1.02	☐ FLOOR PLAN - 36' x 40'		
A-1.03	☐ FLOOR PLAN - 48' TO 120' x 40'	S-1.01	☑ FLOOR FRAMING PLAN - WOOD FLOOR
A-1.04	☐ OPTIONAL RESTROOM END MODULE ADULT HEIGHT PLAN & ELEVATIONS	S-1.11	☐ FLOOR FRAMING PLAN - CONCRETE FLOOR
A-1.04A	☐ OPTIONAL RESTROOM END MODULE ALTERNATE HEIGHT PLANS	S-1.50	☑ FLOOR FRAMING DETAILS - WOOD FLOOR
A-1.05	☐ OPTIONAL RESTROOM END MODULE PLUMBING PLAN	S-1.60	☐ FLOOR FRAMING DETAILS - CONCRETE FLOOR
A-1.06	☐ TOILET BUILDING 24' x 40' ADULT HEIGHT PLAN & ELEVATIONS		
A-1.06A	☐ TOILET BUILDING 24' x 40' ALTERNATE HEIGHT PLANS		
A-1.07	☐ TOILET BUILDING 24' x 40' PLUMBING PLAN		
A-1.08	☐ TOILET BUILDING 24' x 40' INTERIOR ELEVATIONS	S-2.01	☑ ROOF FRAMING PLAN - MONO SLOPE
		S-2.03	☐ ROOF FRAMING PLAN - PARAPET - MONO SLOPE
A-2.01	☑ REFLECTED CEILING PLAN - 24' x 40'	S-2.11	☐ ROOF FRAMING PLAN - DUAL SLOPE
A-2.02	☐ REFLECTED CEILING PLAN - 36' x 40'	S-2.13	☐ ROOF FRAMING PLAN - PARAPET - DUAL SLOPE
A-2.03	☐ REFLECTED CEILING PLAN - 48' TO 120' x 40'	S-2.50	☑ ROOF FRAMING DETAILS - MONO SLOPE
A-2.20	☑ CEILING DETAILS - T-GRID	S-2.51	☐ ROOF FRAMING DETAILS - DUAL SLOPE
A-2.21	☐ CEILING DETAILS - HARD LID	S-2.60	☑ ROOF FRAMING DETAILS
		S-2.70	☐ ROOF FRAMING DETAILS - PARAPET
A-3.01	☑ ROOF PLAN - 24' x 40' - METAL DECK - MONO ~~OR DUAL~~ SLOPE	S-2.90	☑ ROOF FRAMING DETAILS - TRUSS
A-3.02	☐ ROOF PLAN - 36' x 40' - METAL DECK - MONO OR DUAL SLOPE		
A-3.03	☐ ROOF PLAN - 48' TO 120' x 40' - METAL DECK - MONO SLOPE	S-3.01	☑ BUILDING SECTION - MONO SLOPE
A-3.04	☐ ROOF PLAN - 48' TO 120' x 40' - METAL DECK - DUAL SLOPE	S-3.02	☐ BUILDING SECTION - DUAL SLOPE
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A-3.32	☐ ROOF PLAN - 36' x 40' - PARAPET - MONO OR DUAL SLOPE	S-5.10	☑ WALL FRAMING DETAILS - WOOD STUDS
A-3.33	☐ ROOF PLAN - 48' TO 120' x 40' - PARAPET - MONO SLOPE	S-5.11	☑ WALL FRAMING DETAILS - WOOD STUDS
A-3.34	☐ ROOF PLAN - 48' TO 120' x 40' - PARAPET - DUAL SLOPE	S-5.20	☐ WALL FRAMING ELEVATIONS - STEEL STUDS
		S-5.30	☐ WALL FRAMING DETAILS - STEEL STUDS
A-3.41	☐ ROOF PLAN - 24' x 40' - TPO - MONO OR DUAL SLOPE	S-5.31	☐ WALL FRAMING DETAILS - STEEL STUDS
A-3.42	☐ ROOF PLAN - 36' x 40' - TPO - MONO OR DUAL SLOPE		
A-3.43	☐ ROOF PLAN - 48' TO 120' x 40' - TPO - MONO SLOPE		
A-3.44	☐ ROOF PLAN - 48' TO 120' x 40' - TPO - DUAL SLOPE	**SHEET**	**PLUMBING**
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A-3.80	☐ ROOF DETAILS - PARAPET		
A-3.90	☐ ROOFING DETAILS - TPO ROOF		
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A-4.02	☐ EXTERIOR ELEVATIONS - 36' x 40' - MONO SLOPE		
A-4.03	☐ EXTERIOR ELEVATIONS - 36' x 40'- DUAL SLOPE	M-1.01	☑ MECHANICAL PLAN - WALL MOUNT - 24' x 40'
A-4.04	☑ EXTERIOR ELEVATIONS - 48' TO 120' x 40' - MONO SLOPE	M-1.02	☐ MECHANICAL PLAN - WALL MOUNT - 36' x 40'
A-4.05	☐ EXTERIOR ELEVATIONS - 48' TO 120' x 40' - DUAL SLOPE	M-1.03	☐ MECHANICAL PLAN - WALL MOUNT - 48' TO 120' x 40'
A-4.21	☐ EXTERIOR ELEVATIONS - 24' x 40' PARAPET - MONO OR DUAL SLOPE	M-2.01	☐ MECHANICAL PLAN - ROOF MOUNT - 24' x 40'
A-4.22	☐ EXTERIOR ELEVATIONS - 36' x 40' PARAPET - MONO OR DUAL SLOPE	M-2.02	☐ MECHANICAL ROOF PLAN - ROOF MOUNT - 24' x 40'
A-4.23	☐ EXTERIOR ELEVATIONS - 48' x 120' x 40' PARAPET - MONO OR DUAL SLOPE	M-3.01	☐ MECHANICAL PLAN - ROOF MOUNT - 36' x 40'
		M-3.02	☐ MECHANICAL ROOF PLAN - ROOF MOUNT - 36' x 40'
A-5.01	☑ CROSS SECT. - MONO SLOPE	M-4.01	☐ MECHANICAL PLAN - ROOF MOUNT - 48' TO 120' x 40'
A-5.02	☐ CROSS SECT. - DUAL SLOPE	M-4.02	☐ MECHANICAL ROOF PLAN - ROOF MOUNT - 48' TO 120' x 40'
A-5.05	☑ CROSS SECTION		
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A-5.51	☐ ARCHITECTURAL DETAILS - WOOD STUD - PLASTER	E-1.02	☐ ELECTRICAL PLAN AND SCHEDULE - 36' x 40'
A-5.52	☐ ARCHITECTURAL DETAILS - WOOD STUD - WOOD SIDING - 1 HOUR RATED	E-1.03	☐ ELECTRICAL PLAN AND SCHEDULE - 48' TO 120' x 40'
A-5.53	☐ ARCHITECTURAL DETAILS - WOOD STUD - PLASTER - 1 HOUR RATED		
A-5.60	☐ ARCHITECTURAL DETAILS - STEEL STUD - SHTG		
A-5.61	☐ ARCHITECTURAL DETAILS - STEEL STUD - PLASTER		
A-5.62	☐ ARCHITECTURAL DETAILS - STEEL STUD - 1 HOUR RATED		
A-5.63	☐ ARCHITECTURAL DETAILS - STEEL STUD - PLASTER - 1 HOUR RATED	**SHEET**	**RAMP**
A-5.64	☐ ARCHITECTURAL DETAILS - 1 HOUR RATED OPTIONS	R-1.01	☐ RAMP LANDING
		R-1.02	☐ OFFSET RAMP PLAN
A-5.70	☑ ARCHITECTURAL DETAILS - FLOOR	R-1.03	☑ RAMP LANDING
A-5.71	☐ DETERIORATION PROTECTION - NON-WD SIDING - CONC FLR - WD STUDS	R-1.04	☐ STANDARD LANDING WITH STEPS
A-5.72	☐ DETERIORATION PROTECTION - STUCCO FINISH - CONC FLR - WD STUDS	R-1.05	☐ SWITCHBACK RAMP PLAN
A-5.73	☐ DETERIORATION PROTECTION - NON-WD SIDING - WD FLR - WD STUDS	R-2.01	☑ RAMP DETAILS
A-5.74	☐ DETERIORATION PROTECTION - STUCCO FINISH - WD FLR - WD STUDS	R-3.01	☐ STANDARD CONCRETE RAMP AND DETAILS
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A-5.77	☐ DETERIORATION PROTECTION - NON-WD SIDING - WD FLR - STL STUDS		
A-5.78	☐ DETERIORATION PROTECTION - STUCCO FINISH - WD FLR - STL STUDS	**SHEET**	**RELOCATABLE SHEETS**
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A-5.80	☑ ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS	REL-102	☐ BUILDING RELOCATION DETAILS
A-5.81	☑ ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS		
A-6.01	☑ INTERIOR ELEVATIONS - 24' x 40'		
A-6.02	☐ INTERIOR ELEVATIONS - 36' x 40'		
A-6.03	☐ INTERIOR ELEVATIONS - 48' TO 120' x 40'		

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

COVER SHEET

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

~~IDENTIFICATION STAMP~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-121999 INC:~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑~~
~~DATE: 08/31/2023~~

~~PC STATE AGENCY APPROVAL~~

Silver Creek

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:

DRAWN BY:

SCALE: AS NOTED

DATE: 02-27-2023

P.C. SHEET NUMBER

A-0

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	DE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
	LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Periodic – Indicates that a periodic special inspection is required	PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
Test – Indicates that a test is required	SI (Special Inspector) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

SUA1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify certification of materials and: • Mill certificates indicate material properties that comply with requirements. • Material size, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a- 3a, 2202A.1, AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Section A4 & A6. * By special inspector or qualified technician when performed off-site.
☐	b. Test unidentified materials	Test	LOR	2202A.1
☐	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☐	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses 1705A.2.4.
☐	e. Building restrained braces.	Test	LOR	Testing and special inspections in accordance with R 22-4.

SUA2. HIGH-STRENGTH BOLTS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1, AISC 360-16 Section A3.3, J3.1, and M2.2, RCSC 2014 Section 11.5 & 2.1; DSA IR 17-1 & DSA IR 17-6
☐	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1, RCSC 2014 Section 7.2; DSA IR 17-6
☐	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2, AISC 360-16 J1.1, J1.2, M2.5 & M3.6; RCSC 2014 Section 9.1; DSA IR 17-3
☐	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2, AISC 360-16 J1.1, J1.2, M2.5 & M3.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-3 *"Continuous" or "Periodic" depends on the tightening method used.

SUA3. WELDING:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 4 & 5, AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-2
☐	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-2.
☐	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

SUA4. SHOP WELDING (IN ADDITION TO SECTION SUA3):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds < 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a, 1.–4, AISC 360-16 and AISC 341-16 as applicable; DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≥ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a & 5b & 6b, AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1, AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.
	Test or Special Inspection	Type	Performed By	Code References and Notes

SUA5. FIELD WELDING (IN ADDITION TO SECTION SUA3):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds < 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a, 1.–4, AISC 360-16 and AISC 341-16 as applicable; DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≥ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a & 5b, AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	d. Inspect floor and roof deck welds.	Periodic	SI	Table 1705A.2.1, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.3, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1, AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.
	Test or Special Inspection	Type	Performed By	Code References and Notes

SUA6. NONDESTRUCTIVE TESTING:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5, AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5, AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1; DSA IR 17-2.
☐	c.	Test	LOR	

SUA7. STEEL JOISTS AND TRUSSES:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	1705A.2.3, Table 1705A.2.3, AWS D1.1 OSA IR 22-3 for steel joists only. 1705A.2.4, AWS D1.3 for cold-formed steel trusses.
	Test or Special Inspection	Type	Performed By	Code References and Notes

SUA8. SPRAYED FIRE-RESISTANT MATERIALS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.
☐	b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E736
☐	c. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E605

SUA9. ANCHOR BOLTS AND ANCHOR RODS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

SUA10. STORAGE RACK SYSTEMS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Periodic	SI	Table 1705A.13.7
☐	b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5 Table 1705A.13.7
☐	c. Storage rack anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 11.2; Table 1705A.13.7
☐	d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7. * May be performed by the project inspector when specifically approved by DSA.

SUA11. Other Steel

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-122203	School Name: Silver Creek Modular	School District: Silver Creek
DSA File Number: 33-Silver	Increment Number:	Date Created: 2023-08-23 09:27:21

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents.** The project inspector shall verify all construction complies with the approved construction documents.

SOILS:

☐	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following uses: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g. lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following uses: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

CONCRETE/MASONRY:

☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ACI 318, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in CMU, Network and/or other non-structural concrete.

CONCRETE/MASONRY:

☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

WELDING:

☐	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post-base connections per the "Exception" language in Section 1705A.2.1); filled welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a load of or less than 10 psf.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to supernstructure elements using welding will require special inspection as noted in selected item(s) for Sections SUA3, SUA4 and/or SUA5 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Alton, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to supernstructure elements using welding will require special inspection as noted in selected item(s) for Sections SUA3, SUA4 and/or SUA5 of listing above).
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) connections of such elements to supernstructure elements using welding will require special inspection as noted in selected item(s) for sections SUA3, SUA4 and/or SUA5 located in the Steel/Aluminum category of listing above).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) <4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 psf for distributed systems.

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

Application Number: 04-122203	School Name: Silver Creek Modular	School District: Silver Creek
DSA File Number: 33-Silver	Increment Number:	Date Created: 2023-08-23 09:27:21

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

PERMANENT WOOD FOUNDATION | 5

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents.** The project inspector shall verify all construction complies with the approved construction documents.

SOILS:

☐	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following uses: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g. lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following uses: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

CONCRETE/MASONRY:

☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ACI 318, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in CMU, Network and/or other non-structural concrete.

CONCRETE/MASONRY:

☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

WELDING:

☐	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post-base connections per the "Exception" language in Section 1705A.2.1); filled welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or long stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to supernstructure elements using welding will require special inspection as noted in selected item(s) for Sections SUA3, SUA4 and/or SUA5 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Alton, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to supernstructure elements using welding will require special inspection as noted in selected item(s) for Sections SUA3, SUA4 and/or SUA5 of listing above).
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) connections of such elements to supernstructure elements using welding will require special inspection as noted in selected item(s) for sections SUA3, SUA4 and/or SUA5 located in the Steel/Aluminum category of listing above).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) <4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 psf for distributed systems.

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

Application Number: 04-122203	School Name: Silver Creek Modular	School District: Silver Creek
DSA File Number: 33-Silver	Increment Number:	Date Created: 2023-08-23 09:27:21

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

GENERAL 103-22 NOTES | 4

STOCKPILE CONCRETE FLOOR, CONT. | 3

The example form DSA 103 sections shown on this sheet are for illustration purposes only. A form DSA 103 is to be completed for each application that this PC is being incorporated into and the example sections shown on this drawing are to be crossed out.

- UT TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS COLUMN SPLICES OR BEAM SPLICES WHERE THE MATERIAL THICKNESS BEING WELDED IS 5/16" OR GREATER.
- UT TEST SHALL NOT BE REQUIRED TO BE PERFORMED ON CJP GROOVE WELDS WHERE THE MATERIAL THICKNESS BEING WELDED IS 1/4" OR LESS.
- MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM TO COLUMN OR TRUSS CHORD TO COLUMN CJP GROOVE WELDS.

STOCKPILE CONCRETE FLOOR | 3

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	DE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
	LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Periodic – Indicates that a periodic special inspection is required	PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
Test – Indicates that a test is required	SI (Special Inspector) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

C1. CAST-IN-PLACE CONCRETE

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify use of the proper mix design.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☐	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2, ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☐	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item B, ACI 318-19 Sections 26.5 & 26.12.
☐	d. Test concrete (F'c).	Test	LOR	1909A.1.17, ACI 318-19 Section 26.12.
☐	e. In-situ (in place) concrete: Periodic	See Notes	SI	Default of 'Continuous' per 1705A.3.2.3 approved by DSA. In-situ (in place) inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2; See also 1917.13. (See Appendix (end of this form) for exemptions.)
☐	f. Welding of reinforcing steel.			Provide special inspection per STEEL, Category S(Axis) & (e) and/or S(Axis) & (h) below.

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Sampling of steel prestressing tendons and anchorages.	Test	LOR	1705A.3.4, Table 1705A.3 Items 1 & 5.
☐	b. Inspect prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 5.
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Verify in-structure test strength prior to stressing of post tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13. Special inspector to verify specified concrete strength test prior to stressing.
☐	d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item B; ACI 318-19 Section 26.13.

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13.
☐	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.
☐	c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high sensitivity in accordance with ACI 550.5 and assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts; 2. Completion of the continuity reinforcement across joints; 3. Completion of connections in the field.	Continuous	SI	Table 1705A.3, ACI 318-19 Section 26.13.1.3, ACI 550.5
☐	d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Periodic	SI	Table 1705A.3, ACI 318-19 Section 26.13.1.3, ACI 550.5

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 1.7, ACI 506R-16.
☐	b. Sample and test shotcrete (F'c).	Test	LOR	1908A.2, 1705A.3

C5. POST-INSTALLED ANCHORS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.18.7 (which replaces ACI 318-19, Section 17.8.2.1), ACI 318-19 Section 26.7.1 & 26.13.2, ICC-ES AC193 & AC308, ACI 355.4 Table 7.6 & 26.13.1 * May be performed by the project inspector when specifically approved by DSA.
☐	b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)

C6. OTHER CONCRETE:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

SUA1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify certification of materials and: • Mill certificates indicate material properties that comply with requirements. • Material size, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a- 3a, 2202A.1, AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Section A4 & A6. * By special inspector or qualified technician when performed off-site.
☐	b. Test unidentified materials	Test	LOR	2202A.1
☐	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☐	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses 1705A.2.4.
☐	e. Building restrained braces.	Test	LOR	Testing and special inspections in accordance with R 22-4.

SUA2. HIGH-STRENGTH BOLTS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1, AISC 360-16 Section A3.3, J3.1, and M2.2, RCSC 2014 Section 11.5 & 2.1; DSA IR 17-1 & DSA IR 17-6
☐	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1, RCSC 2014 Section 7.2; DSA IR 17-6
☐	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2, AISC 360-16 J1.1, J1.2, M2.5 & M3.6; RCSC 2014 Section 9.1; DSA IR 17-3
☐	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2, AISC 360-16 J1.1, J1.2, M2.5 & M3.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-3 *"Continuous" or "Periodic" depends on the tightening method used.

SUA3. WELDING:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 4 & 5, AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-2
☐	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-2.
☐	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

SUA4. SHOP WELDING (IN ADDITION TO SECTION SUA3):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds < 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a, 1.–4, AISC 360-16 and AISC 341-16 as applicable; DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≥ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a & 5b & 6b, AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1, AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.
	Test or Special Inspection	Type	Performed By	Code References and Notes

SUA5. FIELD WELDING (IN ADDITION TO SECTION SUA3):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds < 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a, 1.–4, AISC 360-16 and AISC 341-16 as applicable; DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≥ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a & 5b, AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	d. Inspect floor and roof deck welds.	Periodic	SI	Table 1705A.2.1, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.3, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1, AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.
	Test or Special Inspection	Type	Performed By	Code References and Notes

SUA6. NONDESTRUCTIVE TESTING:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5, AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5, AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1; DSA IR 17-2.
☐	c.	Test	LOR	

SUA7. STEEL JOISTS AND TRUSSES:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles;

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE

Continuous – Indicates that a continuous special inspection is required

Periodic – Indicates that a periodic special inspection is required

Test – Indicates that a test is required

2. PERFORMED BY

GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.

PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.

SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

C. CAST-IN-PLACE CONCRETE

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2, ACI 318-19 Ch.20 and Section 26.6.1.2, DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5.6 ,26.12.
☑	d. Test concrete (f'c).	Test	LOR	1905A.1.17, ACI 318-19 Section 26.12.
☑	e. Batch plant inspection: Periodic	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐	f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3.
☐	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Item 7 & 8.
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13. Special Inspector to verify specified concrete strength test prior to stressing.
☐	d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13
☐	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.
☐	c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE), or those assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	Continuous	SI	Table 1705A.3, ACI 318-19 Section 26.13.3; ACI 550.5
☐	d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Periodic	SI	Table 1705A.3, ACI 318-19 Section 26.13.3; ACI 550.5

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2 Section 3.4; ACI 506R-16.
☐	b. Sample and test shotcrete (f'c).	Test	LOR	1908A.2, 1705A.3.9

C5. POST-INSTALLED ANCHORS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
☐	b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)

C6. OTHER CONCRETE:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

S. SOILS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	1. Deep foundations acting as a cantilever footing with a design bed on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" and are above adjacent grade.			
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.			

CONCRETE/MASONRY:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below			
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.			
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.			
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.			
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.			

WELDING:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	1. Solid-clad and open-mesh fences, gates with a maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof			
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the "Exception" language in Section 1705A.2.1). fillet welds shall not be ground flush.			
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.			
☐	4. Manufactured support frames and curtains using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 200lf (equipment only) connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).			
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).			
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).			

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IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE

Continuous – Indicates that a continuous special inspection is required

Periodic – Indicates that a periodic special inspection is required

Test – Indicates that a test is required

2. PERFORMED BY

GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.

PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.

SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

C. CAST-IN-PLACE CONCRETE

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2, ACI 318-19 Ch.20 and Section 26.6.1.2, DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5.6 ,26.12.
☑	d. Test concrete (f'c).	Test	LOR	1905A.1.17, ACI 318-19 Section 26.12.
☑	e. Batch plant inspection: Periodic	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐	f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3.
☐	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Item 7 & 8.
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13. Special Inspector to verify specified concrete strength test prior to stressing.
☐	d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13
☐	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.
☐	c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE), or those assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	Continuous	SI	Table 1705A.3, ACI 318-19 Section 26.13.3; ACI 550.5
☐	d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Periodic	SI	Table 1705A.3, ACI 318-19 Section 26.13.3; ACI 550.5

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2 Section 3.4; ACI 506R-16.
☐	b. Sample and test shotcrete (f'c).	Test	LOR	1908A.2, 1705A.3.9

C5. POST-INSTALLED ANCHORS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
☐	b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)

C6. OTHER CONCRETE:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

S. SOILS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	1. Deep foundations acting as a cantilever footing with a design bed on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" and are above adjacent grade.			
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.			

CONCRETE/MASONRY:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below			
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.			
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.			
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.			
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.			

WELDING:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	1. Solid-clad and open-mesh fences, gates with a maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof			
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the "Exception" language in Section 1705A.2.1). fillet welds shall not be ground flush.			
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.			
☐	4. Manufactured support frames and curtains using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 200lf (equipment only) connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).			
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).			
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).			

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A6. SPRAYED FIRE-RESISTANT MATERIALS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.
☐	b. Test density.	Test	LOR	1705A.15.1, 1705A.15.4, ASTM E736
☐	c. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.4, ASTM E605

	S/A8. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☑	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	S/A10. STORAGE RACK SYSTEMS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Materials used, to verify compliance with one or more of the approved construction documents with the approved construction documents.	Periodic	SI	Table 1705A.13.7
☐	b. Hot-rolled storage rack elements.	Periodic	SI	1704A.2.5 Table 1705A.13.7
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	c. Storage rack anchorage	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
☐	d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7.* May be performed by the project inspector when specifically approved by DSA.

	S/A11. Other Steel			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a.			

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

S. SOILS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	1. Deep foundations acting as a cantilever footing with a design bed on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" and are above adjacent grade.			
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.			

CONCRETE/MASONRY:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below			
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.			
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.			
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.			

CONCRETE/MASONRY:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.			

WELDING:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	1. Solid-clad and open-mesh fences, gates with a maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof			
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the "Exception" language in Section 1705A.2.1). fillet welds shall not be ground flush.			
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.			
☐	4. Manufactured support frames and curtains using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 200lf (equipment only) connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).			
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).			
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).			

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE

Continuous – Indicates that a continuous special inspection is required

Periodic – Indicates that a periodic special inspection is required

Test – Indicates that a test is required

2. PERFORMED BY

GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.

PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.

SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

C. CAST-IN-PLACE CONCRETE

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2, ACI 318-19 Ch.20 and Section 26.6.1.2, DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5.6 ,26.12.
☑	d. Test concrete (f'c).	Test	LOR	1905A.1.17, ACI 318-19 Section 26.12.
☑	e. Batch plant inspection: Periodic	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐	f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3.
☐	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Item 7 & 8.
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13. Special Inspector to verify specified concrete strength test prior to stressing.
☐	d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13
☐	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.
☐	c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE), or those assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	Continuous	SI	Table 1705A.3, ACI 318-19 Section 26.13.3; ACI 550.5
☐	d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Periodic	SI	Table 1705A.3, ACI 318-19 Section 26.13.3; ACI 550.5

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2 Section 3.4; ACI 506R-16.
☐	b. Sample and test shotcrete (f'c).	Test	LOR	1908A.2, 1705A.3.9

C5. POST-INSTALLED ANCHORS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
☐	b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)

C6. OTHER CONCRETE:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a–3c, 2203A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3.8 & 4.5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	b. Test undescribed materials	Test	LOR	2203A.1.
☑	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☑	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
☐	e. Buckling restrained braces	Test	LOR	Testing and special inspections in accordance with IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify identification markings and manufacturer's certificate of compliance conform to ASTM standards specified in the DSA-approved construction documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1 and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
☑	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2

REFLECTED CEILING NOTES

1. CEILING SYSTEM GENERAL NOTES

1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.
1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.
1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

Manufacturer:	Armstrong
Evaluation Report Type and Number:	ICC ESR-1308
Main Runner Part, Model, or Catalog Number:	7301
Cross Runner Part, Model, Catalog Number:	XL7328

1.04 Seismic Wall Clip:

Manufacturer's Model:	BERC-2

1.05 Ceiling panels shall not support any luminaires, air terminals or devices.
1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ¾" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.
2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50ksi.
2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (FY) of 30 ksi and minimum ultimate strength (FU) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES

3.01 Separate all ceiling hanger and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.
3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit and equipment.
3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.
3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g., bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

4. FASTENERS AND WELDING

4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
4.02 Expansion anchors shall be: [RDP to indicate manufacturer, product, evaluation report number and test load for each size specified per CBC 1910A.5.4.]
4.03 Power-Actuated Fasteners shall be: [RDP to indicate manufacturer, product, evaluation report number.]
4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member
4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.
4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.
4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING

5.01 All field testing must be performed in the presence of the project inspector.
5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.

6. LUMINAIRES

6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.
6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.
6.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners, shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.
6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.
6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.

7. SERVICES WITHIN THE CEILING

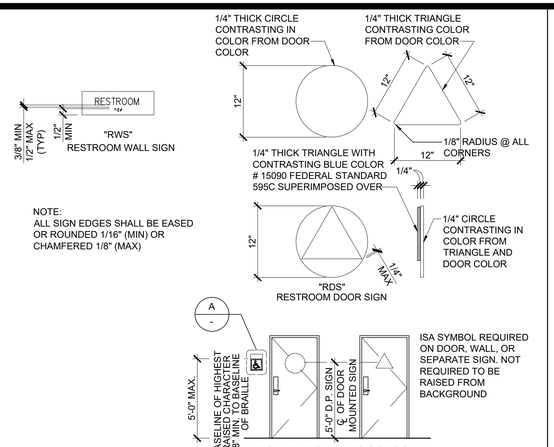
7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.
7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12 gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

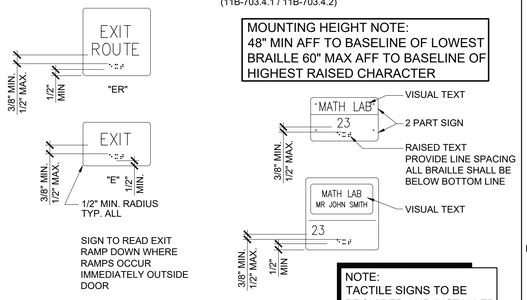
8. OTHER DEVICES WITHIN THE CEILING

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

NOTE:
ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE AND CBC CLASS C FLAME-SPREAD 76-200; SMOKE-DEVELOPED 0-450.

NOTE:
PER CBC SECTION 718.2.1, FIRE BLOCKS MAY BE OF GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. (SECTION 718.2.1). FLAME SPREAD - 25 SMOKE DEVELOPMENT - 50 MAX
FIRE BLOCKING IS NOT REQUIRED WITHIN CONCEALED SPACES CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS





SIGNAGE TEMPLATES

COORDINATE WITH SIGNAGE NOTES (BELOW)

SIGNAGE NOTES

1. CHARACTER TYPE: CHARACTERS ON TACTILE SIGNS SHALL BE RAISED 1/32" (0.794 mm) MINIMUM ABOVE THEIR BACKGROUND AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (SEE NOTE 5 BELOW) 11B-703.2.1 & 11B-703.2.2 &11B-703.23.

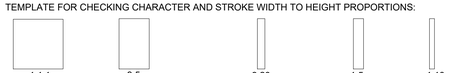
2. RAISED CHARACTER HEIGHT: CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (15.9 mm) MINIMUM AND 2 INCH (51 mm) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". 11B-703.2.5

3. FINISH AND CONTRAST: SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH SYMBOLS. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND. 11B-703.7.1.

4. PROPORTIONS: RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE "I" SHALL BE 15% MAX OF THE HEIGHT OF THE CHARACTER. 11B-703.2.4 + 11B-703.2.6

VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER ' I '. STROKE THICKNESS OF THE UPPER CASE ' I ' SHALL BE 10% MIN. AND 20% MAX OF THE HEIGHT OF THE CHARACTER.

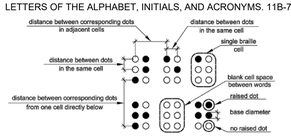
TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

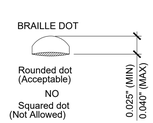


5. CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX). WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE BASE OF THE CROSS SECTIONS, AND 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" (MIN). 11B-703.2.7

6. LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% (MIN) AND 170% (MAX) OF THE RAISED CHARACTER HEIGHT. 11B-703.2.8

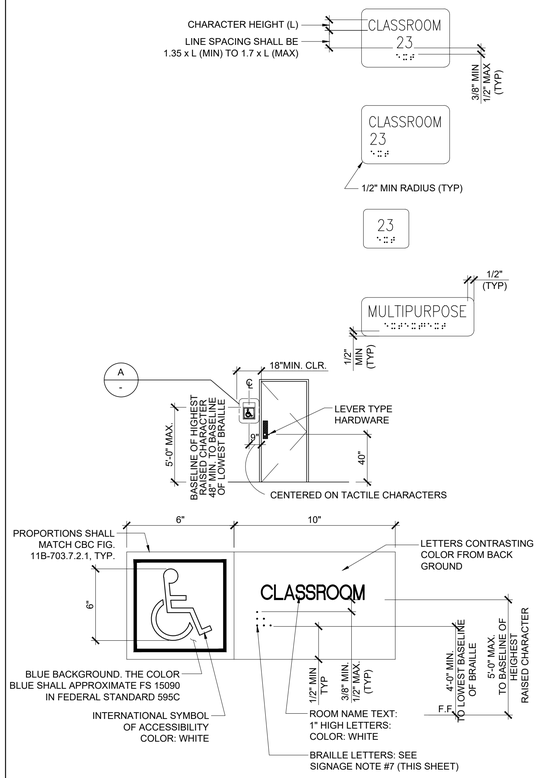
7. BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4. DIMENSIONS AND CAPITALIZATION: BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. 11B-703.3.1.





MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6mm)
Distance between two dots in the same cell[1] (Rhodrotile-1)	*0.100 (2.5 mm)*
Distance between corresponding dots in adjacent cells[1] (Rhodrotile-1)	*0.300 (7.6 mm)*
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below[1] (Rhodrotile-1)	0.395 (10 mm) to 0.400 (10.2 mm)

1. Measured center to center.



NOTE:
SIGN MATERIAL TO BE 1/8" THK. E.S. PLASTIC W/1/32" RAISED GRAPHICS AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. CBC SECTION 11B-703. WHERE RAISED BOARDERS OCCUR, PROVIDE 1/2" MIN. CLEARANCE BETWEEN TOP OF BOARDER AND LOWEST LEVEL OF BRAILLE TEXT.

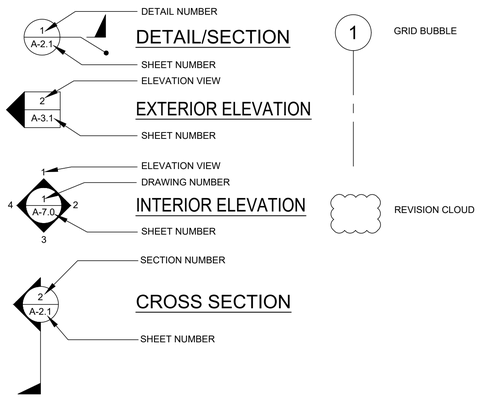
A ROOM IDENTIFCATION ROOM SIGNAGE (BY DISTRICT)

FOR SITE SPECIFIC LOCATIONS ARCHITECT TO PROVIDE BUILDING / ROOM IDENTIFICATION SIGNS. DETAILS AND LOCATIONS OF SIGNAGE TO BE INDICATED.

COORDINATE WITH SIGNAGE NOTES 1 THROUGH 7 ON THIS SHEET.

THIS DETAIL FOR REFERENCE ONLY

SYMBOLS LEGEND



ABBREVIATIONS

AB	ANCHOR BOLT	FIN	FINISH	℄ OR PL	PLATE
ABS	ABSOLUTE	FLR	FLOOR	PC	PRE-CHECKED
ABV	ABOVE	FN	FIELD NAILING	PLAS	PLASTER
ACC	ACCESS	FND	FOUNDATION	PLYWD	PLYWOOD
ADDL	ADDITIONAL	FOC	FACE OF CONCRETE	PNL	PANEL
ADJ	ADJACENT	FOS	FACE OF STUD	POC	POINT OF CONNECTION
AFF	ABOVE FINISH FLOOR	FTG	FOOTING	POT	PATH OF TRAVEL
AFG	ABOVE FINISH GRADE	FOF	FACE OF FINISH	PSF	POUNDS PER SQUARE FOOT
AGC	ABOVE GRADE CONCRETE			PSI	POUNDS PER SQUARE INCH
ALT	ALTERNATE	GA	GAUGE	PT	PRESSURE TREATED
AOR	ARCHITECT OF RECORD	GALV	GALVANIZE		
APPROX	APPROXIMATE	GC	GENERAL CONTRACTOR	RAG	RETURN AIR GRILLE
ARCH	ARCHITECTURAL / ARCHITECT	GR	GRADE	RD	ROOF DRAIN
		GYP	GYPSUM	REF	REFERENCE
BD	BOARD	GYP BD	GYPSUM BOARD	REINF	REINFORCE
BGC	BELOW GRADE CONCRETE			REQ'D	REQUIRED
BLDG	BUILDING	HB	HOSE BIBB	REV	REVISION
BLK	BLOCK	HD	HEAVY DUTY	RF	ROOF
BLKG	BLOCKING	HDR	HEADER	RM	ROOM
BM	BEAM	HDW	HARDWARE	RO	ROUGH OPENING
BOT	BOTTOM (OR BTM)	HF	HEM FIR	ROH	ROOF OVERHANG
BTWN	BETWEEN	HORIZ	HORIZONTAL		
BU	BUILT UP	HT	HEIGHT	SCHED	SCHEDULE
		HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	SEC	SECTION
CAB	CABINET			SHT	SHEET
CBC	CALIFORNIA BUILDING CODE			SHTG	SHEATHING
CI	CAST IRON			SIM	SIMILAR
CJ	CONTROL JOINT	INCL	INCLUDED	SPEC	SPECIFICATION
CJP	COMPLETE JOINT PENETRATION	INFO	INFORMATION	SQ	SQUARE
		INT	INTERIOR	SST	STAINLESS STEEL
℄	CENTER LINE			STD	STANDARD
CLG	CEILING	J-BOX	JUNCTION BOX	STIFF	STIFFENER
CO	CLEAN OUT	JST	JOIST	STL	STEEL
COL	COLUMN	JT	JOINT	STS	SELF-TAPPING SCREW
CONC	CONCRETE			STSMS	SELF-TAPPING SHEET METAL SCREW
CONN	CONNECTION	KO	KNOCK OUT		
CONST	CONSTRUCTION				
CONT	CONTINUOUS	LAB	LABORATORY		
CPT	CARPET	LAM	LAMINATED	T&B	TOP AND BOTTOM
CSK	COUNTERSINK	LAV	LAVATORY	T&G	TONGUE AND GROOVE
CTR	CENTER	LB	POUNDS	TEL	TELEPHONE
		LT	LIGHT	THK	THICK
DBL	DOUBLE	LT WT	LIGHT WEIGHT	TOC	TOP OF COLUMN
DET	DETAIL	LVR	LOUVER	TOS	TOP OF STEEL
DF	DOUGLAS FIR			TS	TUBE STEEL
DIA OR Ø	DIAMETER	MAX	MAXIMUM	TV	TELEVISION
DIAG	DIAGONAL	MB	MACHINE BOLT	TYP	TYPICAL
DIM	DIMENSION	MED	MEDIUM		
DSA	DIVISION OF THE STATE ARCHITECT	MFR	MANUFACTURER	UBC	UNIFORM BUILDING CODE
		MIN	MINIMUM	UON	UNLESS OTHERWISE NOTED
DWG	DRAWING	MISC	MISCELLANEOUS		
		MOD	MODULE	UR	URINAL
(E)	EXISTING	MTL	METAL		
EA	EACH			VERT	VERTICAL
EJ	EXPANSION JOINT	(N)	NEW	VCT	VINYL COMPOSITION TILE
ELEV	ELEVATION	N	NORTH		
EN	END NAIL	NIC	NOT IN CONTRACT (NOT IN SILVER CREEK'S SCOPE OF WORK	W/	WITH
EQ	EQUAL			WC	WATER CLOSET
EQUIP	EQUIPMENT	NO	NUMBER	WCO	WALL CLEAN OUT
EW	EACH WAY	NTS	NOT TO SCALE	WD	WOOD
EXT	EXTERIOR			WH	WATER HEATER
		OC	ON CENTER	WIC	WOODWORK INSTITUTE OF CALIFORNIA
FA	FIRE ALARM	OD	OUTSIDE DIAMETER		
FCO	FLOOR CLEAN OUT	OH	OPPOSITE HAND	WND	WINDOW (OR WDW)
FF	FINISH FLOOR	OPNG	OPENING	W/O	WITHOUT
FG	FINISH GRADE	OPP	OPPOSITE	WP	WATER PROOF

SPECIFICATIONS

DIVISION 5 - METALS
- ALL WELDED JOINTS AND SURFACES SHALL BE GROUNDED SMOOTH, NO SHARP OR ABRASIVES CORNERS, EDGES OR SURFACES. WALL SURFACES ADJACENT TO HANDRAILS SHALL BE SMOOTH,
- ALL HANDRAILS SHALL BE ROUND OR SHALL HAVE RADIUSED EDGES (r = 1/8" MIN)

DIVISION 6 - WOOD AND PLASTICS
- ALL CABINET AND DRAWERS WILL HAVE U-SHAPED WIRE PULLS

DIVISION 9 - FINISHES
- CEILING INSTALLATION SHALL BE PER THE NOTES PROVIDED ON THIS SHEET.

DIVISION 10 - SPECIALITIES
- ALL TOILET ACCESSORIES SHALL BE INSTALLED AT THE HEIGHT AND CLEARANCES SHOWN ON SHEET P-1.01

DIVISION 22 - PLUMBING
- FAUCETS SHALL BE LEVER OPERATED (4" MIN BLADE) OR SHALL BE PUSH TYPE OR AUTOMATIC ELECTRONICALLY CONTROLLED. CONTROLS TO BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- FORCE TO ACTIVATE CONTROLS SHALL NOT BE GREATER THAN 5 LBS
- FORCE TO REMAIN OPEN FOR A MINIMUM OF 10 SECONDS WHEN SELF CLOSING VALVES ARE USED
- PIPE COVERS SHALL BE PROVIDED FOR WATER LINES AND DRAIN PIPES UNDER ACCESSIBLE SINKS AND LAVATORIES
- ACCESSIBLE SINKS SHALL NOT BE DEEPER THAN 6 1/2"

ASSISTIVE LISTENING SYSTEM



ASSISTIVE LISTENING SYSTEM SIGN
(SYMBOL PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.4)

NOTES:
1. ASSISTIVE-LISTENING SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTIONS 11B-216.10 AND 11B-219 AND SHALL COMPLY WITH CBC SECTION 11B-706.
2. THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4% OF THE TOTAL NUMBER OF SEATS, BUT IN NO CASE LESS THAN TWO. 25% (MIN) OF RECEIVERS PROVIDED, BUT NO FEWER THAN TWO, SHALL BE HEARING AID COMPATIBLE IN ACCORDANCE WITH CBC SECTION 11B-706.3
3. SIGNAGE SHALL BE POSTED IN A PROMINENT PLACE INDICATING THE AVAILABILITY OF ASSISTIVE LISTENING DEVICES.
4. OWNER/SCHOOL DISTRICT SHALL PROVIDE A PERMANENT OR PORTABLE ASSISTIVE LISTENING SYSTEM.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

SYMBOLS LEGEND, ABBREVIATIONS & ADA SIGNAGE

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24576 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES	24' x 40' PC
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023
P.C. SHEET NUMBER	A-0.1

WILDLAND URBAN INTERFACE REQUIREMENTS ☑

WHEN THIS BUILDING IS TO BE INSTALLED WHERE THE REQUIREMENTS OF CHAPTER 7A OF THE 2022 CBC ARE APPLICABLE COMPLIANCE WITH THE APPLICABLE REQUIREMENTS SHALL BE AS OUTLINED BELOW:

CHAPTER 7A REQUIREMENTS:

705A ROOFING

705A.1 - ROOF SHALL BE CLASS 'A'.
705A.2 - NOT APPLICABLE. NO VOIDS OCCUR, ROOF IS APPLIED DIRECTLY.
705A.3 - NOT APPLICABLE. NO VALLEYS OCCUR.
705A.4 - LEAF GUARDS/COVERS SHALL BE PROVIDED AT ALL GUTTERS.

706A VENTS

706A.2 - THE UNDER-FLOOR ACCESS AND VENT OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT WIRE MESH WITH A CLEAR OPENING NOT EXCEEDING 1/8".
706A.3 - THE SOFFIT VENTS SHALL BE VULCAN TECHNOLOGIES MODEL #VE OR VSC SOFFIT VENT COVERS (PER CASFM LISTING 8165-2192:0100).

707A EXTERIOR COVERINGS

707A.3 - EXTERIOR WALL FINISH SHALL BE PLASTER (NON-COMBUSTIBLE) OVER 1/2" OSB OVER STUDS OR 19/32" DURATEMP SIDING OVER STUDS (PER SFM LISTING# 8140-2031:0004).
707A.4 - NOT APPLICABLE. NO OPEN ROOF EAVES OCCUR.
707A.5 - SOFFIT FINISH SHALL BE PLASTER (NON-COMBUSTIBLE) OVER FRAMING OR ALLURA FIBER-CEMENT PANELS (NON-COMBUSTIBLE) (PER ESR-1668).
707A.6 - NOT APPLICABLE. DOES NOT OCCUR
707A.7 - NOT APPLICABLE. DOES NOT OCCUR
707A.8 - NOT APPLICABLE. DOES NOT OCCUR
707A.9 - NOT APPLICABLE. DOES NOT OCCUR

708A EXTERIOR DOORS AND WINDOWS

708A.2 - NOT APPLICABLE. DOES NOT OCCUR
708A.3 - EXTERIOR DOORS AND FRAMES ARE NON-COMBUSTIBLE (HOLLOW METAL).
708A.4 - NOT APPLICABLE.

709A - DECKING - THE EXTERIOR DECKING (WHERE APPLICABLE) IS A NON-COMBUSTIBLE STEEL FRAME AND DECK. SKIRTING MATERIAL (WHERE APPLICABLE) SHALL BE 19/32" DURATEMP SIDING (PER SFM LISTING# 8140-2031:0004).

710A - NOT APPLICABLE.

WINDOW SCHEDULE

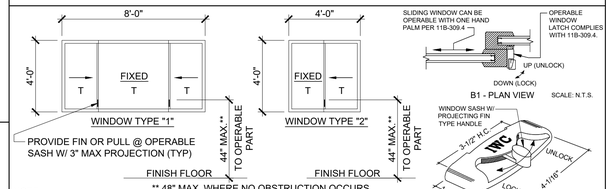
WINDOW NO.	TYPE	SIZE WIDTH	SIZE HEIGHT	FRAME MAT.	OPERABLE	MAX U-FACTOR	REQUIRED SHGC	MIN VT	NFRC RATED	GLASS SPECS	NOTES
A	1	8'-0"	4'-0"	ANOD	YES	0.520	0.350	0.610	YES	DP	
B	2	4'-0"	4'-0"	ANOD	YES	0.520	0.350	0.610	YES	DP	

WINDOW FINISH

ANOD: CLEAR ANODIZED ALUMINUM FRAME
DP: 3/16" MINIMUM DUAL PANE TEMPERED GLASS OF SOLAR GRAY - 3/16" ENERGYSHIELD
T: TEMPERED GLASS

NOTES:
1. ALL OPERABLE SASH SHALL HAVE SCREENS.
2. TEMPORARY NFRC LABELS SHALL STAY ON WINDOWS UNTIL PROJECT INSPECTOR HAS VERIFIED INSTALLED FENESTRATION MATCHES WINDOW SCHEDULE ON PLAN.

WINDOW TYPE



** 48" MAX. WHERE NO OBSTRUCTION OCCURS

NOTE:
1. OPERABLE WINDOW CONTROLS SHALL COMPLY WITH CBC 11B.309.4 AND SHALL NOT REQUIRE TIGHT GRASPING,PINCHING OR TWISTING OF THE WRIST.
2. WINDOW CONTROLS SHALL NOT REQUIRE MORE THAN 5LBS OF FORCE TO OPEREATE
3. THE REQUIRED FORCE TO PUSH/PULL THE WINDOW PANEL SHALL NOT EXCEED 5LBS
4. ALL SAFETY GLAZING SHALL BE IDENTIFIED PER CBC CHAPTER 24.

B1 - PLAN VIEW SCALE: N.T.S.

B2 - PERSPECTIVE VIEW of OPERABLE WINDOW LATCH

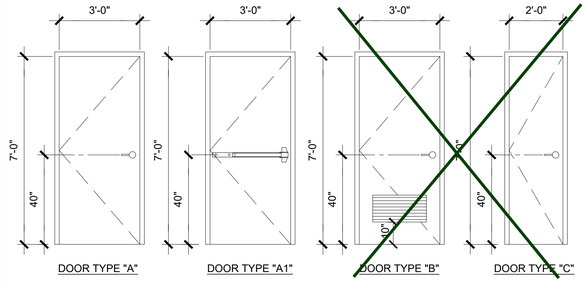
DOOR SCHEDULE

DOOR NO	WIDTH	HEIGHT	DOOR TYPE	QTY	DOOR MAT/FIN	FRAME MAT/FIN	HARDWARE SET	LOCKABLE FROM INT.	NOTES*
~~1~~	~~3'-0"~~	~~7'-0"~~	~~A~~		~~HM~~	~~KD~~	~~HW - 1~~	~~YES~~	
1P	3'-0"	7'-0"	A1		HM	KD	HW - 2	YES	90 DEG SWING
~~2~~	~~3'-0~~	~~7'-0~~	~~A~~		~~SCL~~	~~KD~~	~~HW - 3~~	~~NO~~	
~~3~~	~~3'-0~~	~~7'-0~~	~~B~~		~~HM~~	~~KD~~	~~HW - 4~~	~~NO~~	
~~4~~	~~3'-0~~	~~7'-0~~	~~B~~		~~HM~~	~~KD~~	~~HW - 5~~	~~NO~~	~~NO CLOSER REQ'D.~~
~~5~~	~~2'-0"~~	~~7'-0"~~	~~C~~		~~HM~~	~~KD~~	~~HW - 6~~	~~NO~~	

DOOR MATERIAL AND FINISH ABBREVIATIONS

HM: 18GA HOLLOW METAL
WF: 16GA WELDED FRAME
AL: ALUMINUM
SST: STAINLESS STEEL
KD: KNOCK DOWN FRAME
SCL: SOLID CORE WOOD LEGACY
HC: HOLLOW CORE WOOD
PT: PAINTED
* EXTERIOR DOORS TO BE UNINSULATED SINGLE LAYER DOORS W/ U-FACTOR OF 1.450 MAX

DOOR TYPES & NOTES



1. DOOR HANDLE FOR LOCKSETS AND PANIC HARDWARE TO BE CENTED AT 40" AFF
2. HARDWARE TO BE OPENED FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR.
3. ALL DOORS SHALL BE 1 3/4" THICK U.N.O.
4. CLOSER SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 5 LBS AT EXTERIOR AND INTERIOR DOORS.
5. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
6. ALL HARDWARE SHALL COMPLY WITH SILVER CREEK'S SPECS ON THIS SHEET AND CBC SECTIONS 11B-206.5,11B-404.1 & 1010.
7. DOOR CLOSER SHALL BE ADJUSTED TO SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO A POINT 12° FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR.
8. PANIC AND FIRE EXIT HARDWARE. WHERE THIS TYPE HARDWARE IS INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING:
   - THE ACTUATING PORTION OF THE RELEASING DEVICE SHALL EXTEND AT LEASE ONE-HALF OF THE DOOR LEAF WIDTH.
   - THE MAXIMUM FORCE TO ACTIVATE ANY OPERABLE PART SHALL NOT EXCEED 5 LBS PER THE 2022 CBC, PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.1.10
9. ALL HAND ACTIVATED HARDWARE SHALL BE LEVER TYPE, PANIC BARS, PUSH/PULL TYPE OR 'U' SHAPED HANDLES.
10. ALL HAND ACTIVATED HARDWARE SHALL BE EASY TO OPERATE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST TO OPERATE.
11. FLOOR STOP SHALL BE LOCATED 4" MAX FROM FACE OF WALL.

FINISH SCHEDULE

ROOM NAME	FLOORING FLOOR	FLOORING BASE	WALL FINISH FRONT	WALL FINISH LEFT	WALL FINISH REAR	WALL FINISH RIGHT	CEILING	CEILING HT	NOTES
CLASSROOM 11-16	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"	
~~CLASSROOM 102~~	~~CARP~~	~~4" TS~~	~~TACK~~	~~TACK~~	~~TACK~~	~~TACK~~	~~CP~~	~~8'-6"~~	
~~TOILET 103~~	~~SV~~	~~6" TS~~	~~FRP~~	~~FRP~~	~~FRP~~	~~FRP~~	~~GP~~	~~8'-0"~~	~~SEE 10/A-5.70~~
~~GIRLS 104~~	~~SV~~	~~SC~~	~~FRP~~	~~FRP~~	~~FRP~~	~~FRP~~	~~GBP~~	~~8'-0"~~	~~SEE 10/A-5.70~~
~~BOYS 105~~	~~SV~~	~~SC~~	~~FRP~~	~~FRP~~	~~FRP~~	~~FRP~~	~~GBP~~	~~8'-0"~~	~~SEE 10/A-5.70~~
~~STAFF 106~~	~~SV~~	~~SC~~	~~FRP~~	~~FRP~~	~~FRP~~	~~FRP~~	~~GBP~~	~~8'-0"~~	~~SEE 10/A-5.70~~
~~STAFF 107~~	~~SV~~	~~SC~~	~~FRP~~	~~FRP~~	~~FRP~~	~~FRP~~	~~GBP~~	~~8'-0~~	~~SEE 10/A-5.70~~
~~PLUMBING CHASE~~	~~---~~	~~---~~	~~---~~	~~---~~	~~---~~	~~---~~	~~---~~	~~---~~	

FLOOR, WALL, CEILING MATERIALS

FLOORING
CARP: CARPET PER STATE OF CALIFORNIA SPECIFICATIONS COMPLYING WITH GROUP 1; TYPE "A" OR TYPE "B"; CLASS 2; DENSITY 4600; DIRECT GLUE DOWN
SV: SHEET VINYL FLOORING W/ FULLY SEALED JOINTS
VCT: VINYL COMPOSITION TILE

BASE
4" TS: 4" TOP SET BASE
6" TS: 6" TOP SET BASE
SC: 6" SELF-COVE BASE, CONTINUE FLOOR MATERIAL UP THE WALL PER 10/A-5.70

WALLS
TACK: 1/2" VINYL TACKBOARD CLASS 1 OVER ½" GYPSUM BOARD BACKING
FRP: 1/8" FIBER REINFORCED PANEL OVER ½" WATER RESISTANT GYPSUM BOARD
GYP: 1/2" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH
PLY: 1/2" PLYWOOD FINISH
NF: NO FINISH

CEILING
CP: ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATION NOTES ON REFLECTED CEILING PLAN)
HC: 5/8" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH (HARD LID CEILING)
GBP: 1/2" GYPSUM BOARD WASHABLE PANELS (PAINTED)

FINISH NOTES

1. ALL FINISHES SHALL COMPLY WITH CBC, CFC AND TITLE 19 CCR.
2. PREPARATION FOR SUB-FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB-FLOOR IS 2.4.1. PLYWOOD. OUTER PLYWOOD IS PLUGGED AND TOUCH SANDED. ANY DEFORMITIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR. THE JOINT AT THE MODLINE SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.
3. RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.
4. CARPET SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT, OR LEVEL CUT / UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2" PER THE 2022 CBC. CARPET EDGED SHALL COMPLY WITH THE 2022 CBC

DOOR HARDWARE

CLASSROOM - EXTERIOR DOOR HW-1

LOCKSET	TAL LHV75-LFIC SAT	Finish 626	or equal
I/C CORE	SCHLAGE 23-030 C123	Finish 626	or equal
BUTTS	TAL BB179 4 ½" x 4 ½" NRP	Finish 626	or equal
CLOSER	TAL DC851 DA	Finish 689	or equal
WEATHER STRIP	COLUMBIA 3340S 3684 (ON DR FRAME)	Finish Alum	or equal
THRESHOLD	COLUMBIA 4920 36"	Finish Alum	or equal
DOOR BOTTOM	COLUMBIA 2590 36"	Finish Alum	or equal

DOOR W/ PANIC HARDWARE - EXTERIOR DOOR HW-2

EXIT DEVICE	VON DUPRIN AX-99L-PA-2	Finish 626	or equal
I/C CORE	SCHLAGE 23-030 C123 W/ 20-079 29T KEYWAY	Finish 626	or equal
BUTTS	TAL BB179 4 ½" x 4 ½" NRP BB1191	Finish 626	or equal
CLOSER	TAL DC851 DA LCN P4040XP	Finish 689	or equal
WEATHER STRIP	COLUMBIA 3340S 368 AL HAG 891SAV 1/36 x2/84"	nish Alum	or equal
THRESHOLD	COLUMBIA 4920 36"	Finish Alum	or equal
DOOR BOTTOM	COLUMBIA 2590 36" 783SAV - 36"	Finish Alum	or equal

DOOR PULL - VR910NL X SGL X VON 99EO

EMERGENCY EXIT AND PANIC HARDWARE IS TO COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302:
a) THE CROSS BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE.
d) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

STAFF RESTROOM / SINGLE-OCCUPANCY - INTERIOR DOOR HW-3

LOCKSET	TAL LHV40 SAT	Finish 626	or equal
BUTTS	TAL BB179 4 ½" x 4 ½" NRP	Finish 626	or equal

BOYS & GIRLS RESTROOM - EXTERIOR DOOR HW-4

LOCKSET	TAL LHV70-LFIC SAT	Finish 626	or equal
I/C CORE	SCHLAGE 23-030 C123	Finish 626	or equal
BUTTS	TAL BB179 4 ½" x 4 ½" NRP	Finish 626	or equal
CLOSER	TAL DC851 DA	Finish 689	or equal
WEATHER STRIP	COLUMBIA 3340S 3684 (ON DR FRAME)	Finish Alum	or equal
THRESHOLD	COLUMBIA 4920 36"	Finish Alum	or equal
DOOR BOTTOM	COLUMBIA 2590 36"	Finish Alum	or equal
LOUVER	ANEMO 24 x 12	Finish Bronze	or equal

STAFF RESTROOM - EXTERIOR DOOR HW-5

LOCKSET	SCHLAGE L9496J 06A X 09-505 X L583-363	Finish 626	or equal
I/C CORE	SCHLAGE 23-030 C123	Finish 626	or equal
BUTTS	TAL BB179 4 ½" x 4 ½" NRP	Finish 626	or equal
WEATHER STRIP	COLUMBIA 3340S 3684 (ON DR FRAME)	Finish Alum	or equal
THRESHOLD	COLUMBIA 4920 36"	Finish Alum	or equal
DOOR BOTTOM	COLUMBIA 2590 36"	Finish Alum	or equal
LOUVER	ANEMO 24 x 12	Finish Bronze	or equal

CHASE EXTERIOR DOOR - INTERIOR DOOR HW-6

LOCKSET	TAL LHV70 LFIC SAT	Finish 626	or equal
I/C CORE	SCHLAGE 23-030 C123	Finish 626	or equal
BUTTS	TAL BB179 4 ½" x 4 ½" NRP	Finish 626	or equal

INSULATION SPECIFICATIONS

MOISTURE PROTECTION INSULATION:

DESCRIPTION OF WORK: THE FURNISHING AND INSTALLING OF ALL INSULATION FOR ALL CEILING, FLOOR AREAS, PIPES AND EXTERIOR WALLS. (CLASS A = 0-25 FLAME SPREAD:) SMOKE DEVELOPMENT DENSITY LESS THAN 450.

MATERIAL:
INSULATING MATERIAL FOR WALLS SHALL BE FIBERGLASS BATTS (UNFACED) AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL BE AS MANUFACTURED BY OWENS-CORNING, JOHNS-MANVILLE, OR EQUAL.

INSULATING MATERIAL FOR ROOFS SHALL BE CLOSED CELL SPRAY FOAM AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL HAVE A MINIMUM R-VALUE OF R-6 PER EACH INCH OF THICKNESS, AN AIR PERMEANCE RATE OF NOT MORE THAN 0.02 L/s AT 75 Pa, AND A WATER VAPOR TRANSMISSION RATE OF NOT MORE THAN 0.9 PERMS. THE FOAM SHALL BE APPLIED TO FILL ALL VOIDS IN THE ROOF FRAMING MEMBERS.

MIN INSULATION VALUES:

WOOD STUD EXTERIOR WALL INSULATION (MIN.)
☐ R-13 (4" WALL @ UNCONDITIONED RESTROOM MODULE ONLY)
☑ R-19 (6" WALL)
☐ R-30 (8" WALL)

STEEL STUD EXTERIOR WALL INSULATION (MIN.)
☐ R-13 (4" WALL @ UNCONDITIONED RESTROOM MODULE ONLY)
☐ R-19 BATT + R-8.8 (MIN) CONTINUOUS RIGID FOAM INSULATION ON THE INTERIOR SIDE OF THE WALL ((6" WALL)
☐ R-30 BATT + R-8.8 (MIN) CONTINUOUS RIGID FOAM INSULATION ON THE INTERIOR SIDE OF THE WALL (8" WALL)

INTERIOR WALL INSULATION (MIN.)
R-13

FLOOR INSULATION
☐ NONE (CONCRETE MASS)
☐ R-11 (MIN) + CONCRETE MASS
☑ R-19 (MIN)

ROOF INSULATION (MIN.)
R-30 (5" MIN. DEPTH) CLOSED CELL SPRAY FOAM

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PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

SCHEDULES

REVISIONS
1
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3
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5

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

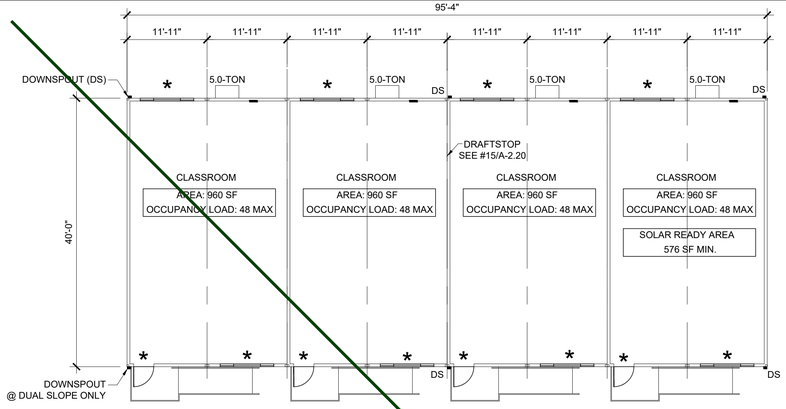
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24075
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0.2

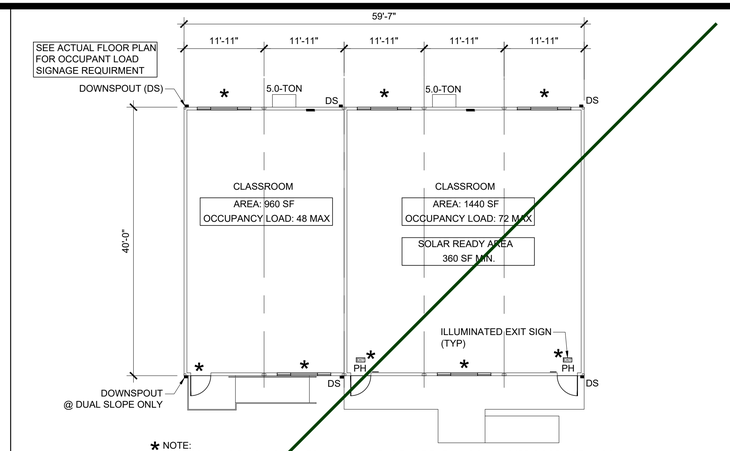


SEE ACTUAL FLOOR PLAN FOR OCCUPANT LOAD SIGNAGE REQUIRMENT

★ NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.

DRAFT STOP NOT REQUIRED W/ FIRE SPRINKLERS

96' x 40' KEY PLAN (TOTAL AREA - 3840 SF) SCALE: 3/32" = 1' - 0" | 7



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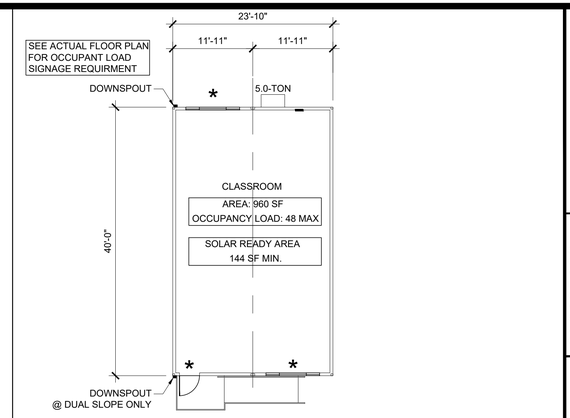
3. PROVIDE PANIC HARDWARE FOR ROOMS WITH TWO OR MORE EXIT DOORS.
4. PROVIDE TACTILE EXIT SIGN, PER DETAIL ON SHEET A-0.1, (TYP), SEE FLOOR PLAN SHT. FOR LOCATIONS

60' x 40' KEY PLAN (TOTAL AREA - 2400 SF) SCALE: 3/32" = 1' - 0" | 4



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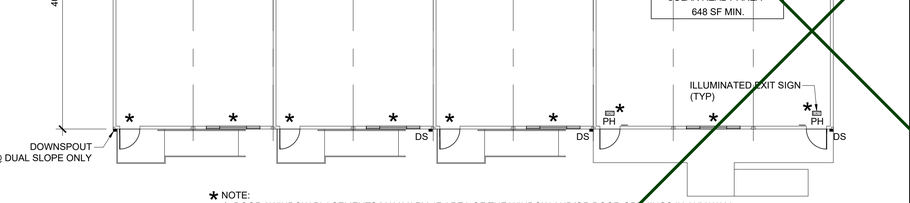
24' x 40' KEY PLAN (TOTAL AREA - 960 SF) SCALE: 3/32" = 1' - 0" | 1



SEE ACTUAL FLOOR PLAN FOR OCCUPANT LOAD SIGNAGE REQUIRMENT

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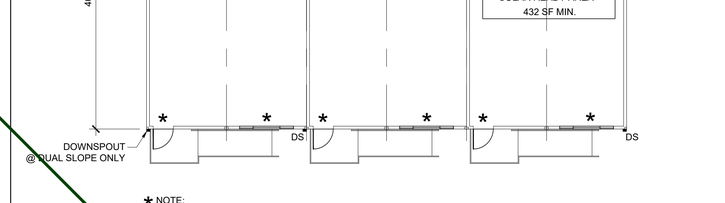
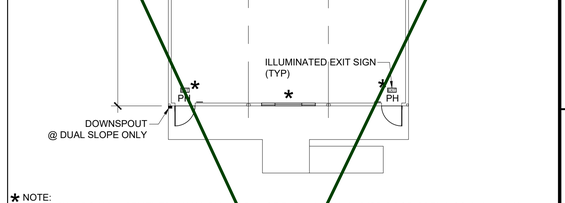
DRAFT STOP NOT REQUIRED W/ FIRE SPRINKLERS

108' x 40' KEY PLAN (TOTAL AREA - 4320 SF) SCALE: 3/32" = 1' - 0" | 8



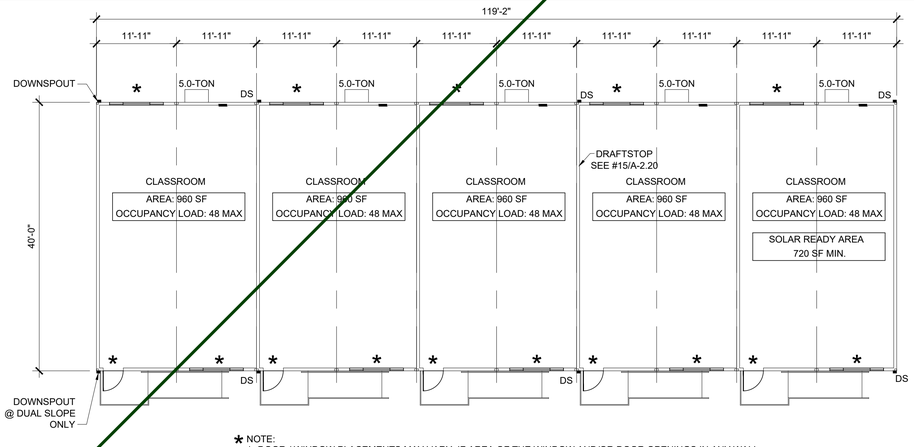
★ NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.

72' x 40' KEY PLAN (TOTAL AREA - 2880 SF) SCALE: 3/32" = 1' - 0" | 5



★ NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.
3. PROVIDE PANIC HARDWARE FOR ROOMS WITH TWO OR MORE EXIT DOORS.
4. PROVIDE TACTILE EXIT SIGN, PER DETAIL ON SHEET A-0.1, (TYP), SEE FLOOR PLAN SHT. FOR LOCATIONS

36' x 40' KEY PLAN (TOTAL AREA - 1440 SF) SCALE: 3/32" = 1' - 0" | 2

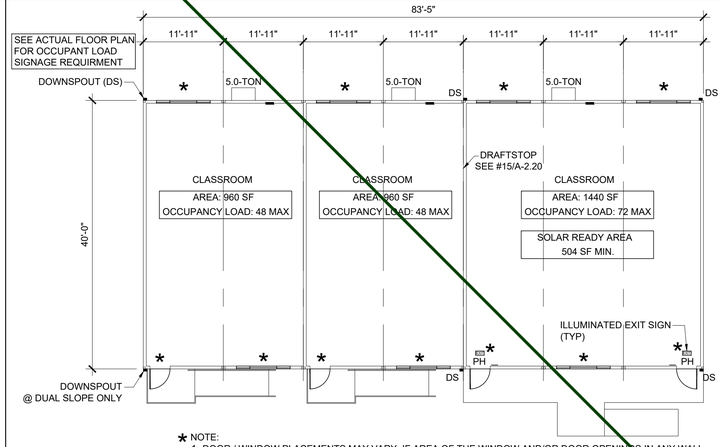


SEE ACTUAL FLOOR PLAN FOR OCCUPANT LOAD SIGNAGE REQUIRMENT

★ NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.

DRAFT STOP NOT REQUIRED W/ FIRE SPRINKLERS

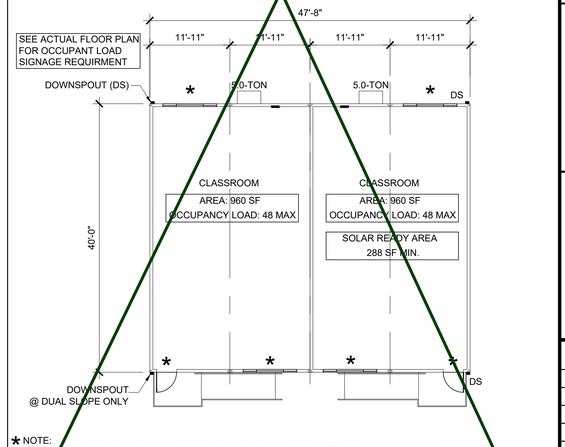
120' x 40' KEY PLAN (TOTAL AREA - 4800 SF) SCALE: 3/32" = 1' - 0" | 9



DRAFT STOP NOT REQUIRED W/ FIRE SPRINKLERS

★ NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.
3. PROVIDE PANIC HARDWARE FOR ROOMS WITH TWO OR MORE EXIT DOORS.
4. PROVIDE TACTILE EXIT SIGN, PER DETAIL ON SHEET A-0.1, (TYP), SEE FLOOR PLAN SHT. FOR LOCATIONS

84' x 40' KEY PLAN (TOTAL AREA - 3360 SF) SCALE: 3/32" = 1' - 0" | 6



★ NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.

48' x 40' KEY PLAN (TOTAL AREA - 1920 SF) SCALE: 3/32" = 1' - 0" | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

TYPICAL KEY PLANS
24' - 120' x 40'

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

A-0.3

Zone Zip Code (Weather Station)	Rotation	☑ 24x40 (1) 5-ton unit							☐ 36x40 (1) 5-ton unit						
		TDV Eff.	%	TDV Total	%	Source EN.	%	Result	TDV Eff.	%	TDV Total	%	Source EN.	%	Result
Zone 14 92301 (PALMDALE)	30	75.68	18.0%	75.68	18.0%	6.98	19.3%	0.0%	95.31	26.2%	95.31	26.2%	8.77	28.3%	PASS
	75	78.22	18.3%	78.22	18.3%	7.26	19.8%	0.0%	98.31	26.5%	98.31	26.5%	9.05	28.8%	PASS
	120	78.82	18.5%	78.82	18.5%	7.27	19.8%	0.0%	97.91	26.5%	97.91	26.5%	8.99	28.7%	PASS
	165	69.06	16.8%	69.06	16.8%	6.39	17.9%	0.0%	88.70	25.0%	88.70	25.0%	8.13	26.9%	PASS
	210	72.38	17.4%	72.38	17.4%	6.65	18.5%	0.0%	95.51	26.3%	95.51	26.3%	8.75	28.3%	PASS
	255	74.24	17.7%	74.24	17.7%	6.87	19.0%	0.0%	98.80	26.7%	98.80	26.7%	9.07	28.9%	PASS
	300	75.17	17.9%	75.17	17.9%	6.93	19.2%	0.0%	98.08	26.6%	98.08	26.6%	8.98	28.7%	PASS
	345	68.01	16.6%	68.01	16.6%	6.32	17.9%	0.0%	87.68	24.8%	87.68	24.8%	8.04	26.7%	PASS
Zone 15 92225 (PALM SPRINGS)	30	72.14	16.8%	72.14	16.8%	6.79	20.9%	0.0%	7.51	2.6%	7.51	2.6%	0.51	2.5%	PASS
	75	76.94	17.6%	76.94	17.6%	7.22	21.9%	0.0%	6.59	2.2%	6.59	2.2%	0.52	2.6%	PASS
	120	78.02	17.8%	78.02	17.8%	7.34	22.2%	0.0%	7.89	2.7%	7.89	2.7%	0.55	2.7%	PASS
	165	67.89	16.1%	67.89	16.1%	6.41	20.1%	0.0%	16.78	5.6%	16.78	5.6%	0.56	2.8%	PASS
	210	68.26	16.1%	68.26	16.1%	6.53	20.3%	0.0%	15.35	5.2%	15.35	5.2%	0.46	2.3%	PASS
	255	70.52	16.4%	70.52	16.4%	6.80	20.9%	0.0%	8.56	2.9%	8.56	2.9%	0.66	3.3%	PASS
	300	67.87	15.9%	67.87	15.9%	6.61	20.5%	0.0%	8.02	2.7%	8.02	2.7%	0.56	2.8%	PASS
	345	65.76	15.6%	65.76	15.6%	6.27	19.7%	0.0%	8.18	2.8%	8.18	2.8%	0.43	2.2%	PASS
Zone 16 96006 (BLUE CANYON)	30	53.58	15.0%	53.58	15.0%	19.96	33.1%	0.0%	70.82	22.8%	70.82	22.8%	19.50	38.6%	PASS
	75	56.56	15.7%	56.56	15.7%	20.06	33.2%	0.0%	74.47	23.6%	74.47	23.6%	19.55	38.6%	PASS
	120	54.70	15.2%	54.70	15.2%	19.96	33.0%	0.0%	70.44	22.6%	70.44	22.6%	19.31	38.2%	PASS
	165	43.85	12.6%	43.85	12.6%	19.58	32.7%	0.0%	63.49	21.0%	63.49	21.0%	19.05	38.0%	PASS
	210	57.00	15.8%	57.00	15.8%	20.16	33.3%	0.0%	71.64	23.0%	71.64	23.0%	19.51	38.6%	PASS
	255	60.18	16.5%	60.18	16.5%	20.16	33.3%	0.0%	74.64	23.7%	74.64	23.7%	19.54	38.6%	PASS
	300	56.39	15.6%	56.39	15.6%	19.88	33.0%	0.0%	70.14	22.5%	70.14	22.5%	19.32	38.3%	PASS
	345	46.54	13.3%	46.54	13.3%	19.52	32.7%	0.0%	63.68	21.0%	63.68	21.0%	19.10	38.1%	PASS

☐ **48x40**
(2) 5-ton units

(2) 24x40 CLASSROOMS

☐ **60x40**
(2) 5-ton units

(1) 24x40 CLASSROOM +
(1) 36x40 CLASSROOM

☐ **72x40**
(3) 5-ton units

(3) 24x40 CLASSROOMS

☐ **84x40**
(3) 5-ton units

(2) 24x40 CLASSROOMS +
(1) 36x40 CLASSROOM

☐ **96x40**
(4) 5-ton units

(4) 24x40 CLASSROOMS

☐ **108x40**
(4) 5-ton units

(3) 24x40 CLASSROOMS +
(1) 36x40 CLASSROOM

☐ **120x40**
(5) 5-ton units

(5) 24x40 CLASSROOMS

Envelope Min Design - Zone: 1-16		
Buildings: All		
Assembly	U-Value	Insulation R-Value
Walls:	0.062	R-19 batt
Floor:	0.054	R-19 batt
Roof:	0.055	R-30 Foam

☑

HVAC Min Design - Zone: 1-16	
Building: 24 x 40	
Tonnage	5
Min. EER / COP	11.0/3.3
Outside Air	See Ventilation Calcs on Mechanical Plans
Occupancy Sensor	Yes
DCV/ Economizer	Yes
Cooling Stages (Min.)	1
Allowable Mechanical Unit (See Equipment Schedule)	SPVU 1 STANDARD; SPVU 2 OPTIONAL

☐

HVAC Min Design - Zone: 1-16	
Buildings: 36 x 40	
Tonnage	5
Min. EER / COP	11.0/3.3
Outside Air	See Ventilation Calcs on Mechanical Plans
Occupancy Sensor	Yes
DCV/ Economizer	Yes
Cooling Stages (Min.)	2
Allowable Mechanical Unit (See Equipment Schedule)	SPVU 2 STANDARD

LEGEND
Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

NOTES:
- Interior lights shall be dimmable LED fixtures, 51 Watts Max per fixtures, 4 fixtures per module per floor
- Windows shall be NFRC #INT-A-73-00213-00011 or equal, U-Factor = 0.520 (Max), SHGC = 0.350 (Max), Visual Transmittance = 0.610 (Min)
- Doors shall be hollow metal, uninsulated single layer doors (Min), U-Factor = 1.450 (Max)
- Refer to sheet A-0.2 For windows specifications
- Refer to sheet A-0.2 For insulation specifications
- Refer to sheets A-0.3 for mechanical layout per classroom
- Refer to Mechanical plans for more info
- Where Steel stud walls are used the exterior wall assembly shall be as follows:
  U-Value 0.062 (max) - provide 6" (Nominal) studs @ 24" oc with R-19 batt cavity insulation and continious 1.5" rigid foam insulation (R=8.8 min) on the interior side of the wall.

DESIGN ENERGY VALUES BY BUILDING SIZE - WOOD FLOOR - WALL HVAC

ENERGY SPECS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

DESIGN ENERGY VALUES
WOOD FLOOR - WALL HVAC

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

~~IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023~~

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-0.53

Project Name: 04-121999 - 24x40 - CONC FLR - RF HVAC | **Date Prepared:** 2023-07-17

A. General Information

1	Project Name	04-121999 - 24x40 - CONC FLR - RF HVAC			
2	Run Title				
3	Project Location	- specify -			
4	City	- specify -	5	Standards Version	Compliance 2022
6	Zip code	92301	7	Compliance Software (version)	CBECC 2022.2.1 SP1 (1298)
8	Climate Zone	14	9	Building Orientation (deg)	345
10	Building Type(s)	• Relocable Public School Building for use in all climate zones Occupancy: E	11	Weather File	PALMDALE_STFY20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	960	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	960	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively			
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E):	
	MultiFam	Not Included		00	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		00	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		00	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☐	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		00	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				00	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

C1. COMPLIANCE SUMMARY

COMPLIES[1]	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency[2] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)
Standard Design	410.64	410.64	35.39
Proposed Design	351.62	351.62	29.35
Compliance Margins	**59.02**	**59.02**	**6.04**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[1]			
Energy Component	**Standard Design (TDV)**	**Proposed Design (TDV)**	**Compliance Margin (TDV)[2]**
Space Heating	31.03	28.78	2.25
Space Cooling	107.73	107.28	0.45
Indoor Fans	178.08	131.18	46.9
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	61.19	61.28	-0.09
Indoor Lighting	32.61	23.1	9.51
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**410.64**	**351.62**	**59.02 (14.4%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**410.64**	**351.62**	**59.02 (14.4%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	67.93	67.93	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**478.57**	**419.55**	**59.02 (12.3%)**

[1] Notes: This table is not used for Energy Code Compliance.

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[1]			
Energy Component	**Standard Design (SOURCE)**	**Proposed Design (SOURCE)**	**Compliance Margin (SOURCE)[2]**
Space Heating	4.6	4.17	0.43
Space Cooling	4.04	4.1	-0.06
Indoor Fans	17.7	12.77	4.93
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	6.48	6.49	-0.01
Indoor Lighting	2.57	1.82	0.75
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**35.39**	**29.35**	**6.04 (17.1%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**35.39**	**29.35**	**6.04 (17.1%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[2]
Receptacle	4.92	4.92	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**40.31**	**34.27**	**6.04 (15%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	1	0.9	0.1	---	---	---
Space Cooling	2.7	2.6	0.1	---	---	---
Indoor Fans	6	4.4	1.6	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	2.3	2.3	0	---	---	---
Indoor Lighting	1.2	0.8	0.4	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**13.2**	**11**	**2.2**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**13.2**	**11**	**2.2**	**0**	**0**	**0**
Receptacle	2.5	2.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**15.7**	**13.5**	**2.2**	**0**	**0**	**0**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	55.8	47.98	7.82	14.01
NET EUI[1]	55.8	47.98	7.82	14.01

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D5. EXCEPTIONAL CONDITIONS

• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
• Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
• Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
• Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

G3. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01 Opaque Surfaces & Orientation	02 Total Gross Surface Area (ft²)	03 Total Fenestration Area (ft²)	04 Window to Wall Ratio (%)
North-Facing[1]	276	32	11.59
East-Facing[2]	440	0	0
South-Facing[3]	252	32	12.7

Notes
[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW).
[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE).
[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE).
[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW).

G3. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01 Opaque Surfaces & Orientation	02 Total Gross Surface Area (ft²)	03 Total Fenestration Area (ft²)	04 Window to Wall Ratio (%)
West-Facing[4]	440	0	0
Total	**1408**	**64**	**4.55**
Roof	960	0	0

Notes
[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW).
[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE).
[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE).
[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW).

G4. NONRESIDENTIAL AIR BARRIER

01 Building Story Name	02 Air Barrier
BuildingStory 1	Air barrier - not verified

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01 Surface Name	02 Construction Type	03 Area (ft²)	04 Framing Type	05 Cavity R-Value	06 Continuous R-Value Interior	06 Continuous R-Value Exterior	07 Units	08 Value	09 Description of Assembly Layers	10 Status[1]
2x6 T111 WALL	Exterior Wall	1,408	Wood	19	N/A	N/A	U-factor	0.0619	Wood siding - 1/2 in. Vapor seal - plastic film - 1/16 in. SCI - 2x6 WD STUD WALL @ 16 16 OC Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
SCI MTL ROOF	Roof	960	Metal	30	N/A	N/A	U-factor	0.0554	Metal Standing Seam - 1/16 in. Building Paper - 1/16 in. Plywood - 3/4 in. SCI - STL JOIST ROOF R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.	N
SCI CONC FLOOR	Exterior Floor	960	N/A	0	N/A	N/A	U-factor	0.1153	Vented Crawl Space Concrete - 80 lb/ft3 - 4 in. Linoleum/cork tile - 1/4 in.	N

[1] Status: N - New, A - Altered, E - Existing

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01 Assembly Name	02 Area (ft²)	03 Overall U-factor	04 Status[1]
SCI - STD HM DOOR	21	1.45	N

[1] Status: N - New, A - Altered, E - Existing

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01 Fenestration Assembly Name	02 Fenestration Type/ Product Type / Frame Type	03 Certification Method[2]	04 Assembly Method	05 Area (ft²)	06 Overall U-factor	07 Overall SHGC	08 Overall VT	09 Status[1]
NFRC #NT-A-73-00213-00011	Vertical fenestration Operable window N/A	NFRC	Site built	64	0.52	0.35	0.61	N

[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center-of-Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[1] Status: N - New, A - Altered, E - Existing

H1. DHY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01 Equipment Name	02 Equipment Type	03 Qty	04 Heating: Total Heating Output (kBtu/h)	05 Heating: Supp Heat Output (kBtu/h)	06 Heating: Efficiency Unit	07 Heating: Efficiency	08 Cooling: Total Cooling Output (kBtu/h)	09 Cooling: Efficiency Unit	10 Cooling: Efficiency	11 Economizer Type (if present)	12 Status[1]
AirSystem 101	Single Zone Heat Pump (SZHP) Air System	1	57	0	N/A	NA	57	EER SEER	12 15	Fixed DB	N

[1] Status: N - New, A - Altered, E - Existing

H8. SYSTEM SPECIAL FEATURES

01 System Name	02 Equipment Type	03 Interlocks per 140.4(k)[2]	04 Other Special Features and Controls
AirSystem 101	Single Zone Heat Pump (SZHP) Air System	No	Zone(s) With CO2 Sensor Vent. Control Fixed DB

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01 Zone Name	02 Mechanical Ventilation: Ventilation Function	03 Mechanical Ventilation: # of People	04 Mechanical Ventilation: Supply OA CFM	05 Mechanical Ventilation: Exhaust CFM	06 Conditioned Area (sf)	07 DCV or Occupant Sensor Controls, or Both
ThermalZone 101	Education - Classrooms (ages 9-18)	31.2	468	0	960	DCV

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01 Name or Item Tag	02 Qty	03 Design OA CFM	04 Supply Fan: CFM	05 Supply Fan: Power	06 Supply Fan: Power Units	07 Supply Fan: Control	08 Return / Relief Fan: Fan Type	09 Return / Relief Fan: CFM	10 Return / Relief Fan: Power	11 Return / Relief Fan: Power Units	12 Return / Relief Fan: Control	13 Status[1]
AirSystem 101	1	468	1,750	0.9	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H2. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Airflow (cfm): Rated Capacity (kBtu/h): Heating	05 Airflow (cfm): Rated Capacity (kBtu/h): Cooling	06 Fan: Design	07 Fan: Min.	08 Fan: Min. Ratio	09 Fan: Power	10 Fan: Power Units	11 Fan: Cycles	12 VSD
TerminalUnit 101	Uncontrolled	1	N/A	N/A	1,750	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01 Occupancy Type[1]	02 Conditioned Floor Area[2] (ft²)	03 Installed Lighting Power (Watts)	04 Lighting Control Credits (Watts)	05 Additional (Custom) Allowance: Area Category Footnotes (Watts)	06 Additional (Custom) Allowance: Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	960	408	0	0	0
Building Totals:	**960**	**408**	**0**	**0**	**0**

[1]See Table 140.6-C
[2]See NRCC-LTI-E for unconditioned spaces
[3]Lighting information for existing spaces modeled is not included in this table

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Airflow (cfm): Rated Capacity (kBtu/h): Heating	05 Airflow (cfm): Rated Capacity (kBtu/h): Cooling	06 Fan: Design	07 Fan: Min.	08 Fan: Min. Ratio	09 Fan: Power	10 Fan: Power Units	11 Fan: Cycles	12 VSD
TerminalUnit 101	Uncontrolled	1	N/A	N/A	1,750	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01 Occupancy Type[1]	02 Conditioned Floor Area[2] (ft²)	03 Installed Lighting Power (Watts)	04 Lighting Control Credits (Watts)	05 Additional (Custom) Allowance: Area Category Footnotes (Watts)	06 Additional (Custom) Allowance: Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	960	408	0	0	0
Building Totals:	**960**	**408**	**0**	**0**	**0**

[1]See Table 140.6-C
[2]See NRCC-LTI-E for unconditioned spaces
[3]Lighting information for existing spaces modeled is not included in this table

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01 Name or Item Tag	02 Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	03 Installed Watts (Conditioned): Watts per luminaire	04 Installed Watts (Conditioned): How is Wattage determined	05 Installed Watts (Conditioned): Total Number of Luminaires	06 Installed Watts (Conditioned): Installed Watts
SCI - 2x4 LED	---	51	According to	8	408

[1] If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01 Area Description	02 Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	03 Type of Lighting Control	04 Power Adjustment Factor (PAF)	05 Luminaire Item Tag	06 Watts per Luminaire	07 # of Luminaires	08 Lighting Controlled (Watts)	09 Control Credit (Watts)
Classroom 101	Classroom, Lecture, or Training Vocational	N/A	N/A	SCI - 2x4 LED	51	2	102	0
Classroom 101	Classroom, Lecture, or Training Vocational	N/A	N/A	SCI - 2x4 LED	51	6	306	0
						Lighting Control Credits (Conditioned) Total (Watts):		**0**

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight Controls.
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.
Mechanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
Mechanical	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance
Mechanical	NRCA-MCH-19-A Occupancy Sensor Controls

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

Documentation Author's Declaration Statement

I. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: SILVER CREEK	Documentation Author Signature:
Company: SILVER CREEK	Signature Date:
Address:	CEA/HERS Certification Identification (if applicable):
City/State/Zip: _	Phone: 951-943-5393

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: JOHN STARLIN	Responsible Designer Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed:
City/State/Zip: PERRIS , CA 92571	License #: 2475
Phone: 951-943-5393	Title: Engineer — Scope: Envelope
Responsible Designer Name: JOHN STARLIN	Responsible Designer Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed:
City/State/Zip: PERRIS , CA 92571	License #: 2475
Phone: 951-943-5393	Title: Engineer — Scope: Lighting

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance — Report Version: 2022.0.000 Schema Version: rev 20220601 — Report Generated: 2023-

Project Name: 04-121999 - 24x40 - CONC FLR - RF HVAC — **Date Prepared:** 2023-07-17

A. General Information

1	Project Name	04-121999 - 24x40 - CONC FLR - RF HVAC		
2	Run Title			
3	Project Location	- specify -		
4	City	- specify -	5	Standards Version — Compliance 2022
6	Zip code	92225	7	Compliance Software (version) — CBECC 2022.2.1 SP1 (1298)
8	Climate Zone	15	9	Building Orientation (deg) — 345
10	Building Type(s)	• Relocable Public School Building for use in all climate zones Occupancy: E	11	Weather File — PALM-SPRINGS_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units — 0
14	Total Conditioned Floor Area in Scope (ft²)	960	15	Total # of hotel/motel rooms — 0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type — Natural gas
18	Nonresidential Conditioned Floor Area	960	19	Total # of Stories (Habitable Above Grade) — 1
20	Residential Conditioned Floor Area	0		

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively		
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐ Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E):	
	MultiFam	Not Included		☒ Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table I)	☐ Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒ Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table I)	☐ Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒ Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☐ Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E):	
	MultiFam	Not Included		☒ Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐ Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒ Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

C1. COMPLIANCE SUMMARY

COMPLIES[1]

	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency[2] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)
Standard Design	421.74	421.74	31.74
Proposed Design	374.85	374.85	27.42
Compliance Margins	**46.89**	**46.89**	**4.32**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[1]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Space Heating	6.05	6.2	-0.15
Space Cooling	176.5	176.12	0.38
Indoor Fans	163.21	126.15	37.06
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	43.76	43.56	0.2
Indoor Lighting	32.22	22.82	9.4
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**421.74**	**374.85**	**46.89 (11.1%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**421.74**	**374.85**	**46.89 (11.1%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	66.69	66.69	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**488.43**	**441.54**	**46.89 (9.6%)**

[1] Notes: This table is not used for Energy Code Compliance.

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[1]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[2]
Space Heating	0.83	0.84	-0.01
Space Cooling	8.73	8.65	0.08
Indoor Fans	15.02	11.51	3.51
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	4.59	4.6	-0.01
Indoor Lighting	2.57	1.82	0.75
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**31.74**	**27.42**	**4.32 (13.6%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**31.74**	**27.42**	**4.32 (13.6%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[2]
Receptacle	4.92	4.92	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**36.66**	**32.34**	**4.32 (11.8%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.2	0.2	0	---	---	---
Space Cooling	5.2	5.1	0.1	---	---	---
Indoor Fans	5.5	4.3	1.2	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	1.6	1.6	0	---	---	---
Indoor Lighting	1.2	0.8	0.4	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**13.7**	**12**	**1.7**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**13.7**	**12**	**1.7**	**0**	**0**	**0**
Receptacle	2.5	2.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**16.2**	**14.5**	**1.7**	**0**	**0**	**0**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	57.58	51.54	6.04	10.49
NET EUI[1]	57.58	51.54	6.04	10.49

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D5. EXCEPTIONAL CONDITIONS

• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(b) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
• Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
• Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
• Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

G3. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01 Opaque Surfaces & Orientation	02 Total Gross Surface Area (ft²)	03 Total Fenestration Area (ft²)	04 Window to Wall Ratio (%)
North-Facing[1]	276	32	11.59
East-Facing[2]	440	0	0
South-Facing[3]	252	32	12.7

Notes
[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW).
[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE).
[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE).
[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW).

G3. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01 Opaque Surfaces & Orientation	02 Total Gross Surface Area (ft²)	03 Total Fenestration Area (ft²)	04 Window to Wall Ratio (%)
West-Facing[4]	440	0	0
Total	**1408**	**64**	**4.55**
Roof	960	0	0

Notes
[1]North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW).
[2]East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE).
[3]South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE).
[4]West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW).

G4. NONRESIDENTIAL AIR BARRIER

01 Building Story Name	02 Air Barrier
BuildingStory 1	Air barrier - not verified

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01 Surface Name	02 Construction Type	03 Area (ft²)	04 Framing Type	05 Cavity R-Value	06 Continuous R-Value Interior	06 Continuous R-Value Exterior	07 Units	08 Value	09 Description of Assembly Layers	10 Status[1]
2x6 T111 WALL	Exterior Wall	1,408	Wood	19	N/A	N/A	U-factor	0.0619	Wood siding - 1/2 in. Vapor seal - plastic film - 1/16 in. SCI - 2x6 WS STUD WALL R-19 16 OC Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
SCI MTL ROOF	Roof	960	Metal	30	N/A	N/A	U-factor	0.0554	Metal Standing Seam - 1/16 in. Building Paper - 1/16 in. Plywood - 3/4 in. SCI - STL JOIST ROOF R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.	N
SCI CONC FLOOR	Exterior Floor	960	N/A	0	N/A	N/A	U-factor	0.1153	Vented Crawl Space Concrete - 80 lb/ft3 - 4 in. Linoleum/cork tile - 1/4 in.	N

[1] Status: N - New, A - Altered, E - Existing

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01 Assembly Name	02 Area (ft²)	03 Overall U-factor	04 Status[1]
SCI - STD HM DOOR	21	1.45	N

[1] Status: N - New, A - Altered, E - Existing

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01 Fenestration Assembly Name	02 Fenestration Type/ Product Type / Frame Type	03 Certification Method[1]	04 Assembly Method	05 Area (ft²)	06 Overall U-factor	07 Overall SHGC	08 Overall VT	09 Status[2]
NFRC #NT-A-73-00213-00011	Vertical fenestration Operable window N/A	NFRC	Site built	64	0.52	0.35	0.61	N

[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center-of-Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A - Altered, E - Existing

H1. DHV SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01 Equipment Name	02 Equipment Type	03 Qty	04 Heating Total Heating Output (MBtu/h)	05 Heating Supp Heat Output (MBtu/h)	06 Heating Efficiency Unit	07 Heating Efficiency	08 Cooling Total Cooling Output (MBtu/h)	09 Cooling Efficiency Unit	10 Cooling Efficiency	11 Economizer Type (if present)	12 Status[1]
AirSystem 101	Single Zone Heat Pump (SZHP) Air System	1	57	0	N/A	NA	57	EER SEER	12 15	Fixed DB	N

[1] Status: N - New, A - Altered, E - Existing

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01 Name or Item Tag	02 Qty	03 Design OA CFM	04 Supply Fan	05 Supply Fan	06 Supply Fan	07 Supply Fan	08 Return / Relief Fan	09 Return / Relief Fan	10 Return / Relief Fan	11 Return / Relief Fan	12 Return / Relief Fan	13 Status[1]
			CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	
AirSystem 101	1	468	1,750	0.9	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H8. SYSTEM SPECIAL FEATURES

01 System Name	02 Equipment Type	03 Interlocks per §40.4(c)[1]	04 Other Special Features and Controls
AirSystem 101	Single Zone Heat Pump (SZHP) Air System	No	Zone(s) With CO2 Sensor Vent. Control Fixed DB

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01 Zone Name	02 Mechanical Ventilation Function	03 Mechanical Ventilation # of People	04 Mechanical Ventilation Supply OA CFM	05 Mechanical Ventilation Exhaust CFM	06 Conditioned Area (sf)	07 DCV or Occupant Sensor Controls, or Both
ThermalZone 101	Education - Classrooms (ages 9-18)	31.2	468	0	960	DCV

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01 Name or Item Tag	02 Qty	03 Design OA CFM	04 Supply Fan CFM	05 Supply Fan Power	06 Supply Fan Power Units	07 Supply Fan Control	08 Return / Relief Fan Fan Type	09 Return / Relief Fan CFM	10 Return / Relief Fan Power	11 Return / Relief Fan Power Units	12 Return / Relief Fan Control	13 Status[1]
AirSystem 101	1	468	1,750	0.9	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H8. SYSTEM SPECIAL FEATURES

01 System Name	02 Equipment Type	03 Interlocks per §40.4(c)[1]	04 Other Special Features and Controls
AirSystem 101	Single Zone Heat Pump (SZHP) Air System	No	Zone(s) With CO2 Sensor Vent. Control Fixed DB

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01 Zone Name	02 Mechanical Ventilation Function	03 Mechanical Ventilation # of People	04 Mechanical Ventilation Supply OA CFM	05 Mechanical Ventilation Exhaust CFM	06 Conditioned Area (sf)	07 DCV or Occupant Sensor Controls, or Both
ThermalZone 101	Education - Classrooms (ages 9-18)	31.2	468	0	960	DCV

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Ruled Capacity (kBtu/h) Heating	05 Ruled Capacity (kBtu/h) Cooling	06 Airflow (cfm) Design	07 Airflow (cfm) Min.	08 Min. Ratio	09 Fan Conditioned Area (sf)	10 Fan Power Units	11 Fan Cycles	12 VSD
TerminalUnit 101	Uncontrolled	1	N/A	N/A	1,750	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01 Occupancy Type[1]	02 Conditioned Floor Area[2] (ft²)	03 Installed Lighting Power (Watts)	04 Lighting Control Credits (Watts)	05 Additional (Custom) Allowance Area Category Footnotes (Watts)	06 Additional (Custom) Allowance Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	960	408	0	0	0
Building Totals:	**960**	**408**	**0**	**0**	**0**

[1]See Table 140.6-C
[2]See NRCC-LTI-E for unconditioned spaces
[3]Lighting information for existing spaces modeled is not included in this table

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01 Name or Item Tag	02 Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	03 Installed Watts (Conditioned) Watts per luminaire	04 Installed Watts (Conditioned) How is Wattage determined	05 Installed Watts (Conditioned) Total Number of Luminaires	06 Installed Watts (Conditioned) Installed Watts
SCI - 2x4 LED	---	51	According to	8	408

[1] If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01 Area Description	02 Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	03 Type of Lighting Control	04 Power Adjustment Factor (PAF)	05 Luminaire Item Tag	06 Watts per Luminaire	07 # of Luminaires	08 Lighting Controlled (Watts)	09 Control Credit (Watts)
Classroom 101	Classroom, Lecture, or Training Vocational	N/A	N/A	SCI - 2x4 LED	51	2	102	0
Classroom 101	Classroom, Lecture, or Training Vocational	N/A	N/A	SCI - 2x4 LED	51	6	306	0
						Lighting Control Credits (Conditioned) Total (Watts)		**0**

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author Indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight Controls.
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.
Mechanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
Mechanical	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance
Mechanical	NRCA-MCH-19-A Occupancy Sensor Controls

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

Documentation Author's Declaration Statement

I. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: SILVER CREEK	Documentation Author Signature:
Company: SILVER CREEK	Signature Date:
Address:	CEA/HERS Certification Identification (if applicable):
City/State/Zip: _	Phone: 951-943-5393

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for this permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: JOHN STARLIN	Responsible Designer Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed:
City/State/Zip: PERRIS , CA 92571	License #: 2475
Phone: 951-943-5393	Title: Engineer — Scope: Mechanical
Responsible Designer Name: JOHN STARLIN	Responsible Designer Signature:
Company: SILVER CREEK	

Project Name: 04-121999 - 24x40 - CONC FLR - RF HVAC — **Date Prepared:** 2023-07-17

A. General Information

1	Project Name	04-121999 - 24x40 - CONC FLR - RF HVAC			
2	Run Title				
3	Project Location	- specify -			
4	City	- specify -	5	Standards Version	Compliance 2022
6	Zip code	96006	7	Compliance Software (version)	CBECC 2022.2.1 SP1 (1298)
8	Climate Zone	16	9	Building Orientation (deg)	165
10	Building Type(s)	• Relocable Public School Building for use in all climate zones Occupancy: E	11	Weather File	BLUE-CANYON_ST7P20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	960	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	960	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively		
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐ Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E):	
	MultiFam	Not Included		☒ Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table I)	☐ Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒ Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐ Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒ Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☐ Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒ Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐ Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒ Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

C1. COMPLIANCE SUMMARY

	COMPLIES[1]		
	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency[2] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)	Total[3] (kBtu/ft² - yr)
Standard Design	347.46	347.46	59.92
Proposed Design	319.82	319.82	41.38
Compliance Margins	**27.64**	**27.64**	**18.54**
	Pass	**Pass**	**Pass**

[1] *Efficiency measures include improvements like a better building envelope and more efficient equipment*
[2] *Compliance Totals include efficiency, photovoltaics and batteries*
[3] *Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

	COMPLIES[1]		
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Space Heating	71.12	101.19	-30.07
Space Cooling	20.15	18.52	1.63
Indoor Fans	183.24	136.22	47.02
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	41.89	41.89	0
Indoor Lighting	31.06	22	9.06
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**347.46**	**319.82**	**27.64 (8%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**347.46**	**319.82**	**27.64 (8%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	63.66	63.66	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**411.12**	**383.48**	**27.64 (6.7%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

	COMPLIES[1]		
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[2]
Space Heating	22.6	9.71	12.89
Space Cooling	1.36	1.31	0.05
Indoor Fans	18.3	13.45	4.85
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	15.09	15.09	0
Indoor Lighting	2.57	1.82	0.75
Flexibility	---	---	---
EFFICIENCY TOTAL	**59.92**	**41.38**	**18.54 (30.9%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**59.92**	**41.38**	**18.54 (30.9%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[2]
Receptacle	4.92	4.92	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**64.84**	**46.3**	**18.54 (28.6%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.1	2.6	-2.5	23	---	---
Space Cooling	0.8	0.7	0.1	---	---	---
Indoor Fans	6.1	4.5	1.6	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	15.8	15.8	0
Indoor Lighting	1.2	0.8	0.4	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**8.2**	**8.6**	**-0.4**	**38.8**	**15.8**	**23**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**8.2**	**8.6**	**-0.4**	**38.8**	**15.8**	**23**
Receptacle	2.5	2.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**10.7**	**11.1**	**-0.4**	**38.8**	**15.8**	**23**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	78.45	55.91	22.54	28.73
NET EUI[1]	78.45	55.91	22.54	28.73

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

D5. EXCEPTIONAL CONDITIONS

• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls is Secondary Daylit Zones is required.
• The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
• Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
• Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
• Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

G3. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	252	32	12.7
East-Facing[2]	440	0	0
South-Facing[3]	276	32	11.59

Notes
[1]*North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW).*
[2]*East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE).*
[3]*South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE).*
[4]*West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW).*

G3. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
West-Facing[4]	440	0	0
Total	**1408**	**64**	**4.55**
Roof	960	0	0

Notes
[1]*North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW).*
[2]*East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE).*
[3]*South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE).*
[4]*West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW).*

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
BuildingStory 1	Air barrier - not verified

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
					Continuous R-Value					
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Interior	Exterior	Units	Value	Description of Assembly Layers	Status[1]
2x6 T111 WALL	Exterior Wall	1,408	Wood	19	N/A	N/A	U-factor	0.0619	Wood siding - 1/2 in. Vapor seal - plastic film - 1/16 in. SCI - 2x6 WD STUD WALL @ 19 16 OC Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
SCI MTL ROOF	Roof	960	Metal	30	N/A	N/A	U-factor	0.0554	Metal Standing Seam - 1/16 in. Building Paper - 1/16 in. Plywood - 3/4 in. SCI - STL JOIST ROOF R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.	N
SCI CONC FLOOR	Exterior Floor	960	N/A	0	N/A	N/A	U-factor	0.1153	Vented Crawl Space Concrete - 80 lb/ft3 - 4 in. Linoleum/cork tile - 1/4 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	02	03	04
Assembly Name	Area (ft²)	Overall U-factor	Status[1]
SCI - STD HM DOOR	21	1.45	N

[1] *Status: N - New, A - Altered, E - Existing*

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[1]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
NFRC #NT-A-73-00213-00011	Vertical fenestration Operable window N/A	NFRC	Site built	64	0.52	0.35	0.61	N

[1] *Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center-of-Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A - Altered, E - Existing*

H1. DHV SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
AirSystem 101	Single Zone Heat Pump (SZHP) Air System	1	57	0	N/A	NA	57	EER SEER	12 15	Fixed DB	N

[1] *Status: N - New, A - Altered, E - Existing*

H2. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
			Supply Fan				Return / Relief Fan					
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status[1]
AirSystem 101	1	468	1,750	0.9	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(k)[1]	Other Special Features and Controls
AirSystem 101	Single Zone Heat Pump (SZHP) Air System	No	Zone(s) With CO2 Sensor Vent. Control Fixed DB

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
		Mechanical Ventilation				
Zone Name	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
ThermalZone 101	Education - Classrooms (ages 5-18)	31.2	468	0	960	DCV

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
			Supply Fan				Return / Relief Fan					
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status[1]
AirSystem 101	1	468	1,750	0.9	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(k)[1]	Other Special Features and Controls
AirSystem 101	Single Zone Heat Pump (SZHP) Air System	No	Zone(s) With CO2 Sensor Vent. Control Fixed DB

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H8. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
		Mechanical Ventilation				
Zone Name	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
ThermalZone 101	Education - Classrooms (ages 5-18)	31.2	468	0	960	DCV

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtu/h)		Airflow (cfm)			Fan			
System ID	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
TerminalUnit 101	Uncontrolled	1	N/A	N/A	1,750	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
				Additional (Custom) Allowance	
Occupancy Type[1]	Conditioned Floor Area[2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	960	408	0	0	0
Building Totals:	**960**	**408**	**0**	**0**	**0**

[1]*See Table 140.6-C*
[2]*See NRCC-LTI-E for unconditioned spaces*
[3]*Lighting information for existing spaces modeled is not included in this table*

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01	02	03	04	05	06
		Installed Watts (Conditioned)			
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
SCI - 2x4 LED	---	51	According to	8	408

[1] *If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
Classroom 101	Classroom, Lecture, or Training Vocational	N/A	N/A	SCI - 2x4 LED	51	2	102	0
Classroom 101	Classroom, Lecture, or Training Vocational	N/A	N/A	SCI - 2x4 LED	51	6	306	0
						Lighting Control Credits (Conditioned) Total (Watts):		0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight Controls.
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.
Mechanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
Mechanical	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance
Mechanical	NRCA-MCH-19-A Occupancy Sensor Controls

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

Documentation Author's Declaration Statement

I. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: SILVER CREEK	Documentation Author Signature:
Company: SILVER CREEK	Signature Date:
Address:	CEA/HERS Certification Identification (if applicable):
City/State/Zip: _	Phone: 951-943-5393

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: JOHN STARLIN	Responsible Designer Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed:
City/State/Zip: PERRIS , CA 92571	License #: 2475
Phone: 951-943-5393	Title: Engineer — Scope: Envelope
Responsible Designer Name: JOHN STARLIN	Responsible Designer Signature:
Company: SILVER CREEK	
Address: 2830

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
This document is used to demonstrate compliance with mandatory commissioning requirements in 120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.			
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	**Report Page:**	**(Page 1 of 6)**
Project Address:		**Date Prepared:**	2023-01-31T18:53:26-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Perris	04	Building Size (ft²)	960
02	Occupancy Type	Nonresidential	05	Nonresidential Conditioned Floor Area (ft²)	< 10,000 ft²
03	Project Type	Newly constructed	06	HVAC System Type	Unitary or packaged equipment each serving one zone
			07	Climate Zone	10

B. PROJECT SCOPE

Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per 120.8. Table B is not editable by the user.

Commissioning Requirements per 120.8

01	Table F: Design Review Kickoff	120.8(d)1 and 120.8(d)2	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)	120.8(b)	This requirement does not apply.
03	Table H: Basis of Design (BOD)	120.8(c)	This requirement does not apply.
04	Table I: Design Review	120.8(d) and 120.8(e)	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft² of nonresidential conditioned floor area, the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan	120.8(f)	This requirement does not apply.
06	Table K: Functional Performance Testing	120.8(g)	This requirement does not apply.
07	Table L: Documentation and Training	120.8(h)	This requirement does not apply.
08	Table M: Commissioning Report	120.8(i)	This requirement does not apply.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	**Report Page:**	**(Page 2 of 6)**
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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per 120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01	02	03	04	05	06	07	08	09
Design Kickoff Review	Owner's Project Requirements	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	Compliance Results
Table F	Table G	Table H	Table I	*Table J*	Table K	Table L	Table M	
Yes			Yes					COMPLIES
10	Design Reviewer(s) for the project include:			John Starlin				COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	**Report Page:**	**(Page 3 of 6)**
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F. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff requirements per 120.8(d)2. This meeting should occur during the Schematic Design phase of the project.

Design Review Kickoff Meeting Details

01	Date of Design Review Kickoff Meeting			2022-12-05
02	Meeting Attendees: (one person may play multiple roles)			
☒	Owner/Facility Manager:	Ryan McIntosh	☐ Design Reviewer(s)	
☐	Project Manager:		☒ Design Architect/ Engineer(s):	John Starlin
☐	Contractor:		☐ Certified Acceptance Test Tech(s):	
☐	Commissioning Provider:		☒ Energy/ T24 Part 6 Consultant:	John Starlin

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1

		Do the Design Reviewer(s) meet these qualifications?	
	The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.	Yes	No
03	In addition, for buildings with < 10,000 ft², the design reviewer(s) may be the engineer or architect of record. The design reviewer(s) may also be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect or contractor.	●	○
04	The design reviewer(s) for this project will be:	John Starlin	

Preliminary Construction Schedule

		Start Date	Completion Date
05	Schematic Design	2022-12-05	2022-12-05
06	Design Development	2022-12-05	2022-12-05
07	Construction Documents	2022-12-05	2023-02-24
08	Construction	2024-01-01	2024-01-01
09	Building Turnover	2024-01-01	2024-01-01

Project Goals Related to Energy Efficiency

10	Operational Costs	Code Minimum performance
11	Desired Building Lifespan	30 - 50 years.
12	Equipment Lifecycle	Industry standard.
13	Project Energy Efficiency Goals	Code Minimum performance

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	**Report Page:**	**(Page 4 of 6)**
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F. DESIGN REVIEW KICKOFF MEETING

14	Envelope Goals	Code minimum performance.
15	HVAC System Goals	Code minimum performance.
16	Indoor Lighting System Goals	Code minimum performance.
17	Outdoor Lighting System Goals	Code minimum performance.
18	Water Heating System Goals	Code minimum performance.
19	Equipment and System Specifications	Industry standard equipment.
20	Operations and Maintenance	No specific requirements.

G. OWNER'S PROJECT REQUIREMENTS (OPR)

This section does not apply to this project.

H. BASIS OF DESIGN (BOD)

This section does not apply to this project.

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

This table is only completed if a design review document is not attached to permit application to demonstrate compliance with 120.8(b) and 120.8(e). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff.

		YES	NO
01	Attaching Completed Design Review Documentation?	○	●

Design Review Checklist

02	Envelope Design	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.
03	HVAC System Design	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.
04	HVAC Controls Design	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.
05	Indoor Lighting System Design	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.
06	Indoor Lighting Controls Design	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.

CERTIFICATE OF COMPLIANCE, NONRESIDENTIAL BUILDING COMMISSIONING

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	**Report Page:**	**(Page 1 of 6)**
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I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

07	Outdoor Lighting System and Controls Design	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.
08	Water Heating System Design	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.
09	Other Systems and Features	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.

J. COMMISSIONING PLAN

This section does not apply to this project.

K. FUNCTIONAL PERFORMANCE TESTING

This section does not apply to this project.

L. DOCUMENTATION AND TRAINING

This section does not apply to this project.

M. COMMISSIONING REPORT

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no forms required for this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	**Report Page:**	**(Page 6 of 6)**
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company: Silver Creek Industries, LLC	Signature Date: 02-20-2023
Address: 2830 Barrett Ave	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance [responsible designer]
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: John Starlin	Responsible Designer Signature:
Company: Silver Creek Industries, LLC	Date Signed: 02-20-2023
Address: 2830 Barrett Ave	License: 2475
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NREC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii			
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	**Report Page:**	**(Page 1 of 4)**
Project Address:		**Date Prepared:**	2023-01-31T18:53:58-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Perris	02	Climate Zone	10
			03	Occupancy Types Within Project:	Classroom

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
Site feeder	Add/Alt to feeders and branch circuits only	---	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.5/ 160.5, and mechanical, Indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
[2] *If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
[3] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NREC-ELC-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	**Report Page:**	**(Page 2 of 4)**
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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND		AND	Yes	AND			COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bvic.

01	02		03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
					Pass	Fail
Site feeder	☒ Voltage drop less than 5%	☐ Permitted by CA Elec Code (Exception to 130.5(c))*	Contractor Responsible		☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
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K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	**Report Page:**	**(Page 4 of 4)**
Project Address:		**Date Prepared:**	2023-01-31T18:53:58-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company: Silver Creek Industries, LLC	Signature Date: 02-20-2023
Address: 2830 Barrett Ave	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: John Starlin	Responsible Designer Signature:
Company: Silver Creek Industries, LLC	Date Signed: 02-20-2023
Address: 2830 Barrett Ave	License: 2475
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

CERTIFICATE OF COMPLIANCE, ELECTRICAL POWER DISTRIBUTION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

CERTIFICATE OF COMPLIANCE FORMS

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

~~IDENTIFICATION STAMP~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-121999 INC:~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑~~
~~DATE: 08/31/2023~~

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-0.6A

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 1 of 8)
Project Address:		Date Prepared:	2023-01-31T18:54:22-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Perris	04	Total Illuminated Hardscape Area (ft²)	60
02	Climate Zone	10			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐	LZ-2: Moderate - Urban Clusters	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Rural Areas	☒	LZ-3: Moderately High - Urban Areas		
05	Occupancy Types within Project				
• Classroom					

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2I. / 180.2(b)4Br for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table C. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 2 of 8)
Project Address:		Date Prepared:	2023-01-31T18:54:22-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2I. / 180.2(b)4Br												Compliance Results		
01		02		03		04		05		06		07	08	09
General Hardscape Allowance 140.7(d1) / 170.2(e)6 (See Table I)	+	Per Application Allowance 140.7(d2) / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d2) (See Table K)	+	Ornamental 140.7(d2) / 170.2(e)9 (See Table L)	+	Per Specific Area 140.7(d2) / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2I. / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥ **Total Actual** (Watts)	**07 must be >= 08**
258.06	+	19	+	---	+	---	+	---	OR	---	=	277.06	≥ 30	COMPLIES
Shielding Compliance (See Table G for Details)														N/A
Controls Compliance (See Table H for Details)														COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Selections made in Certificates of Installation Table have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

(NRCI-LTO-01-E Explanation) 1

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 3 of 8)
Project Address:		Date Prepared:	2023-01-31T18:54:22-05:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2I. only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 3]	How is Wattage determined	Total Number Luminaires[1]	Luminaire Status[2]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
F-1	0 Watt LED Wallpack	☐ Linear	30	Mfr. Spec	1	New	☐	30	NA; < 6200 lumens	☐	☐
						Total Design Watts:		30			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 4 of 8)
Project Address:		Date Prepared:	2023-01-31T18:54:22-05:00

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Entry; "F-1"	Photocontrol	Provided	NA: Facade, etc. >=24 ft	☐	☐

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from I and iii.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 5 of 8)
Project Address:		Date Prepared:	2023-01-31T18:54:22-05:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-B while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

01				
	☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)		
		☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Entry	60	0.021	1.26	34	0.2	6.8	8.06
				Initial Wattage Allowance for Entire Site (Watts):			250
				Instances of Initial Wattage Allowance (LZ 0 only)[1]			
				Total General Hardscape Allowance (Watts):			258.06

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B[1]	**CALCULATED ALLOWANCE (Watts)**			**DESIGN WATTS**				Additional Allowance (Watts)
		# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Entry Door	Building Entrance/Exit	1	19	19	F-1	30	1	30	19
							Total Design Watts for this Area:	30	
							Total Allowance (Watts) All Areas:		19

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.*
[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 6 of 8)
Project Address:		Date Prepared:	2023-01-31T18:54:22-05:00

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Entry: "F-1"

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 7 of 8)
Project Address:		Date Prepared:	2023-01-31T18:54:22-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Ryan McIntosh	
Company: Silver Creek Industries, LLC	Signature Date: 02-16-2023
Address: 2830 Barrett Ave	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
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5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: John Starin	Responsible Designer Signature:
Company: Silver Creek Industries, LLC	Date Signed: 02-16-2023
Address: 2830 Barrett Ave	License: 2475
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 8 of 8)
Project Address:		Date Prepared:	2023-01-31T18:54:22-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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Documentation Author Name:	Documentation Author Signature:
Ryan McIntosh	
Company: Silver Creek Industries, LLC	Signature Date: 02-16-2023
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RESPONSIBLE PERSON'S DECLARATION STATEMENT

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3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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Responsible Designer Name: John Starin	Responsible Designer Signature:
Company: Silver Creek Industries, LLC	Date Signed: 02-16-2023
Address: 2830 Barrett Ave	License: 2475
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

CERTIFICATE OF COMPLIANCE, OUTDOOR LIGHTING

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 1 of 6)
Project Address:		Date Prepared:	2023-02-02T16:17:35-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Perris	02	Climate Zone	10
03	Occupancy Types Within Project (select all that apply):				
• Classroom sinks and restroom lavatories					

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.7 / 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAR compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03	
My project consists of (check all that apply):	System Type[1,2]	System Components	
☒ New system (DHW system being installed for the first time in newly constructed building)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution ☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution ☐ Controls

[1] *FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*
[2] *Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.*
[3] *DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 2 of 6)
Project Address:		Date Prepared:	2023-02-02T16:17:35-05:00

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1 / 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03	04	05	06					
System Name	WH-1	Exception to 140.5(c)/ 170.2(d)3	Exceptions Do Not Apply	☐	Gas Service Water Heating System >= 1MMBtu/h[1]	Capacity-weighted Average Efficiency %		
07	08	09	10		11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
WH-1	Consumer Rated Electric Instantaneous (<=12kW)	<=2	10,264	0 <= GPM <1.7	0.91	0.91	UEF		

[1] *FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 3 of 6)
Project Address:		Date Prepared:	2023-02-02T16:17:35-05:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	SILVER CREEK PC - TYPICAL CLASSROOM	Report Page:	(Page 4 of 6)
Project Address:		Date Prepared:	2023-02-02T16:17:35-05:00

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity (dgte/) 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-PLB-E - Must be submitted for all buildings

CERTIFICATE OF COMPLIANCE, WATER HEATER SYSTEM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

CERTIFICATE OF COMPLIANCE FORMS

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-121999 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 08/31/2023~~

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-0.6B

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: 40- PC-PV	Report Page: (Page 1 of 5)
Project Address:	Date Prepared: 2023-02-17T18:05:07-05:00

This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/ 170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(i)3C for multifamily and hotel/ motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in 110.10/ 160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in 110.10/ 160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft² of roof area. Alterations, or additions of less than 2,000 ft² of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.

A. GENERAL INFORMATION

01	Project Location (city)	N/A	04	Building Occupancies	School or Classroom
02	Climate Zone	15	05	Construction Type	New construction
03	Conditioned Floor Area (ft²)	4800	06	Number of Stories	Bldg <= 3 stories

B. PROJECT SCOPE

The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.

Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)

	01
☐	Provided PV system and battery storage sized per 140.10/ 170.2 (g and h)
☐	Exception to PV and Battery: Not enough Solar Access Roof Area
☐	Exception to PV and Battery: Required PV < 4kW
☐	Exception to PV and Battery: No contiguous Solar Access Roof Area
☐	Exception to PV and Battery: Can't meet snow load
☐	Exception to PV and Battery: Multi-tenant without VNEM or Community Solar
☐	The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.
☐	The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101
Documentation Software: Energy Code Ace Compliance ID: 90125-0223-0002 Report Generated: 2023-02-17 15:05:11

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: 40- PC-PV	Report Page: (Page 2 of 5)
Project Address:	Date Prepared: 2023-02-17T18:05:07-05:00

Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamily and hotel/ motel occupancies only)

	01
☐	The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H. Compliance meets Exception 2 to solar ready requirements in 110.10(b).

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance or see the applicable Table referenced below.

Allocated Solar Zone				Installed PV System					Installed SWH System					Smart Tstat and Alternative EE Measure		Compliance Results
01		02		03		04			05		06			07	08	
Required Minimum Area (ft²)	<=	Designated Area (ft²)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR		Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR		JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)				(See Tables G or J)					(See Table H)					(See Table I)		
171	<=	172	OR	0	<=	0	OR			<=		OR				COMPLIES
N/A				Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).												COMPLIES
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J.																Not Applicable

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: 40- PC-PV	Report Page: (Page 3 of 5)
Project Address:	Date Prepared: 2023-02-17T18:05:07-05:00

F. ALLOCATED SOLAR ZONE

This section does not apply to this project.

G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: 40- PC-PV	Report Page: (Page 4 of 5)
Project Address:	Date Prepared: 2023-02-17T18:05:07-05:00

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This table documents compliance with prescriptive photovoltaic and battery system requirements in 140.10/ 170.2(g and h). Unless the project meets one of the listed exceptions, or trades-off PV in an energy model using performance path, 140.10/ 170.2(g and h) requires installed photovoltaic and battery systems for newly constructed buildings. The installed PV systems must meet the minimum requirements in Joint Appendix 11.

Photovoltaic (PV) System

01	02	03	04	05	06	07	08
Occupancy	Conditioned Floor Area (ft²)	Area of New Roof[1] (ft²)	Roof Area < 70% Solar Access[2] (ft²)	Plansheet or Document showing Solar Access Calculations	Occupied Roof Area[3] (ft²)	Solar Access Roof Area (SARA) (ft²)	Min Size of PV System Required (kWdc)
School or Classroom	4,800	5,700	0	Sheet A-0.7	0	5,700	11.8
						Total Min Size PV System Required for all Spaces (kWdc):	11.81
						Total Size PV System in Design (kWdc):	11.81

[1]FOOTNOTES: Includes the area of the building's roof space capable of structurally supporting a PV system and the area of all roof space on covered parking areas, carports, and all other newly constructed structures on the site that are compatible with supporting a PV system per Title 24, Part 2 Section 1511.2.
[2]Solar access must be determined using CEC approved solar access calculation tools found at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/solar-assessment-tools.
[3]As specified by CBC Section 503.1.4.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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CERTIFICATE OF COMPLIANCE, SOLAR & BATTERY - PV

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: 40- PC-PV	Report Page: (Page 5 of 5)
Project Address:	Date Prepared: 2023-02-17T18:05:07-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company: Silver Creek Industries, LLC	Signature Date: 02-20-2023
Address: 2830 Barrett Ave	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: John Starlin	Responsible Designer Signature:
Company: Silver Creek Industries, LLC	Date Signed: 02-20-2023
Address: 2830 Barrett Ave	License: 2475
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: 40- PC-Solar Ready	Report Page: (Page 1 of 7)
Project Address:	Date Prepared: 2023-02-17T18:06:54-05:00

A. GENERAL INFORMATION

01	Project Location (city)	N/A	04	Building Occupancies	School or Classroom
02	Climate Zone	15	05	Construction Type	New construction
03	Conditioned Floor Area (ft²)	960	06	Number of Stories	Bldg <= 3 stories

B. PROJECT SCOPE

The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.

Compliance with Solar Readiness Requirements in 110.10(b)1B

	01
☒	Provide Solar Ready Area no exceptions — The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.
☐	Exception to Solar Ready Area: Installed Solar Photovoltaic System — The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.
☐	Exception to Solar Ready Area: Installed Solar Water Heating System — The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H.
☐	Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure — The project is a multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I.
☐	Exception to Solar Ready Area: Roof is designed for vehicular traffic, parking or for heliport — Plan sheet showing roof designed for vehicular traffic, parking or heliport
☐	Exception to Solar Ready Area: Roof too small — The project is new construction and has a total roof area <= 533 square feet[1]
☐	Exception to Solar Ready Area: Number of building stories — The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories.

[1]FOOTNOTE: Buildings with roof area <=533 ft² would have a required solar zone < 80 ft² and are therefore exempt per 110.10(b)1.

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STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: 40- PC-Solar Ready	Report Page: (Page 2 of 7)
Project Address:	Date Prepared: 2023-02-17T18:06:54-05:00

Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)

	01
☐	Provided PV system and battery storage sized per 140.10/ 170.2 (g and h) — The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table J.
☐	Exception to PV and Battery: Not enough Solar Access Roof Area — The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J.
☒	Exception to PV and Battery: Required PV < 4kW — The required PV system size is less than 4 kW dc as documented in Table J..
☐	Exception to PV and Battery: No contiguous Solar Access Roof Area — The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.
☐	Exception to PV and Battery: Can't meet snow load — The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.
☐	Exception to PV and Battery: Multi-tenant without VNEM or Community Solar — The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program.
☐	The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form. — The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program.

Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamily and hotel/ motel occupancies only)

	01
☐	The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H. Compliance meets Exception 2 to solar ready requirements in 110.10(b).

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: 40- PC-Solar Ready	Report Page: (Page 3 of 7)
Project Address:	Date Prepared: 2023-02-17T18:06:54-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance or see the applicable Table referenced below.

Allocated Solar Zone				Installed PV System					Installed SWH System					Smart Tstat and Alternative EE Measure		Compliance Results
01		02		03		04			05		06			07	08	
Required Minimum Area (ft²)	<=	Designated Area (ft²)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR		Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR		JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)				(See Tables G or J)					(See Table H)					(See Table I)		
171	<=	172	OR	0	<=	0	OR			<=		OR				COMPLIES
N/A				Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).												COMPLIES
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J.																Not Applicable

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: 40- PC-Solar Ready	Report Page: (Page 4 of 7)
Project Address:	Date Prepared: 2023-02-17T18:06:54-05:00

F. ALLOCATED SOLAR ZONE

This table is completed if the project is designating a solar zone to comply with §110.10(b)1B. New construction consider the total roof area; Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zones must also comply with fire code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.

Required Minimum Solar Zone

01	02	03	04	05	06			07	08
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Sky/f)) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones[1]	Potential Solar Zone Areas: Roof areas with >= 70% Solar Access			Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
					Low-Sloped Area (<= 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch) Oriented 90 - 300 ° (ft²)	Total Potential Solar Zone Area (ft²)		
Total New or Added Roof Area	1140	0	171						171

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3 A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3 B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Solar Zone	Roof plans sheets A-3.xx	Low slope		Yes	Yes	Yes	Yes	80	172	COMPLIES

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STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
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Interconnection Pathways

location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).	N/A

[1]FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.

G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This table documents compliance with prescriptive photovoltaic and battery system requirements in 140.10/ 170.2(g and h). Unless the project meets one of the listed exceptions, or trades-off PV in an energy model using performance path, 140.10/ 170.2(g and h) requires installed photovoltaic and battery systems for newly constructed buildings. The installed PV systems must meet the minimum requirements in Joint Appendix 11.

Photovoltaic (PV) System

01	02	03	04	05	06	07	08
Occupancy	Conditioned Floor Area (ft²)	Area of New Roof[1] (ft²)	Roof Area < 70% Solar Access[2] (ft²)	Plansheet or Document showing Solar Access Calculations	Occupied Roof Area[3] (ft²)	Solar Access Roof Area (SARA) (ft²)	Min Size of PV System Required (kWdc)
School or Classroom	960	1,140	0	Roof plans A-3.xx	0	1,140	1.36
						Total Min Size PV System Required for all Spaces (kWdc):	0
						Total Size PV System in Design (kWdc):	0

[1]FOOTNOTES: Includes the area of the building's roof space capable of structurally supporting a PV system and the area of all roof space on covered parking areas, carports, and all other newly constructed structures on the site that are compatible with supporting a PV system per Title 24, Part 2 Section 1511.2.
[2]Solar access must be determined using CEC approved solar access calculation tools found at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/solar-assessment-tools.
[3]As specified by CBC Section 503.1.4.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101
Documentation Software: Energy Code Ace Compliance ID: 90123-0223-0003 Report Generated: 2023-02-17 15:06:58

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-SAB-E
Project Name: 40- PC-Solar Ready	Report Page: (Page 7 of 7)
Project Address:	Date Prepared: 2023-02-17T18:06:54-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company: Silver Creek Industries, LLC	Signature Date: 02-20-2023
Address: 2830 Barrett Ave	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: John Starlin	Responsible Designer Signature:
Company: Silver Creek Industries, LLC	Date Signed: 02-20-2023
Address: 2830 Barrett Ave	License: 2475
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101
Documentation Software: Energy Code Ace Compliance ID: 90123-0223-0003 Report Generated: 2023-02-17 15:06:58

CERTIFICATE OF COMPLIANCE, SOLAR & BATTERY - SOLAR READY AREAS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

CERTIFICATE OF COMPLIANCE FORMS

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

~~IDENTIFICATION STAMP~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-121999 INC:~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑~~
~~DATE: 08/31/2023~~

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

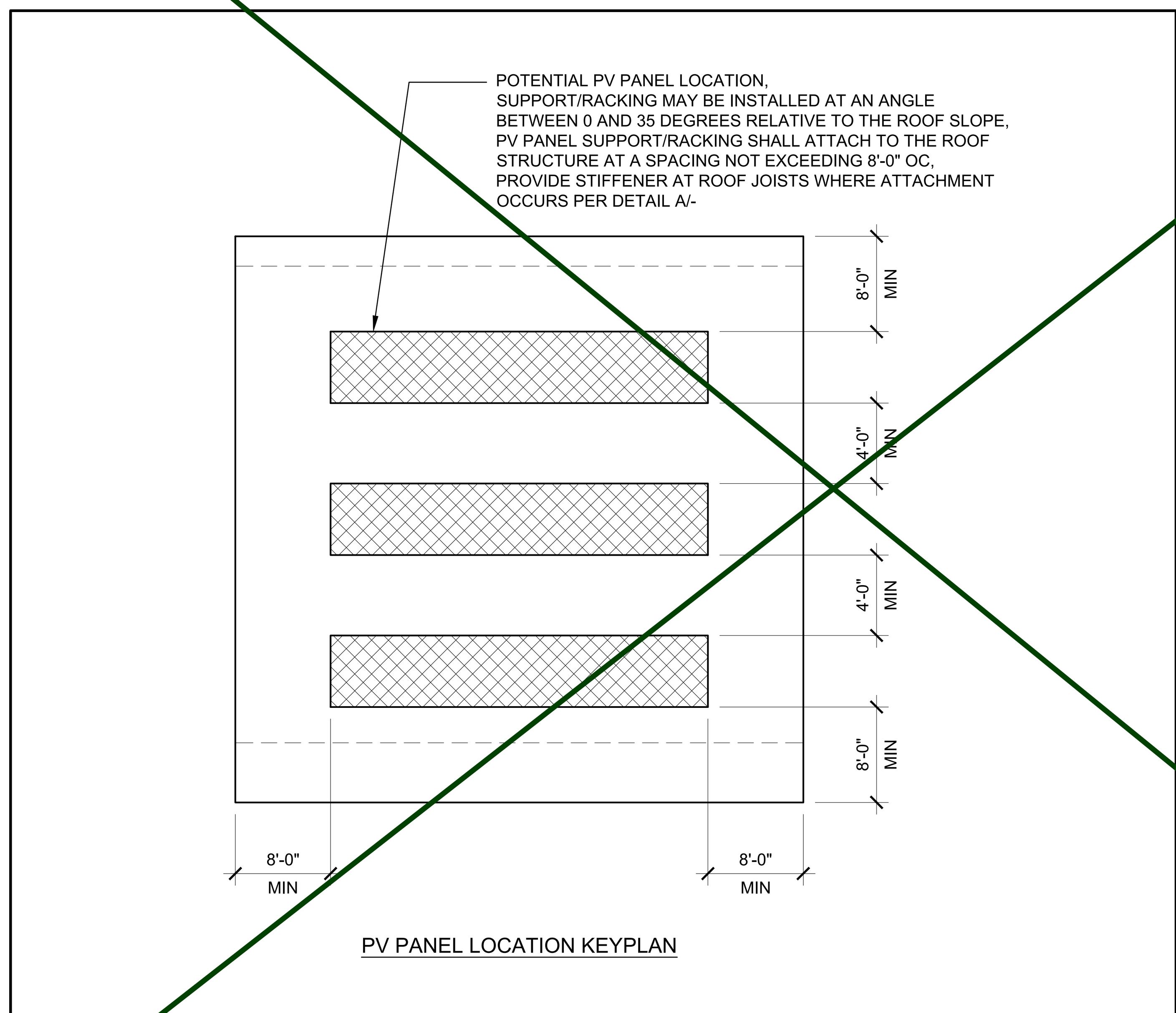
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

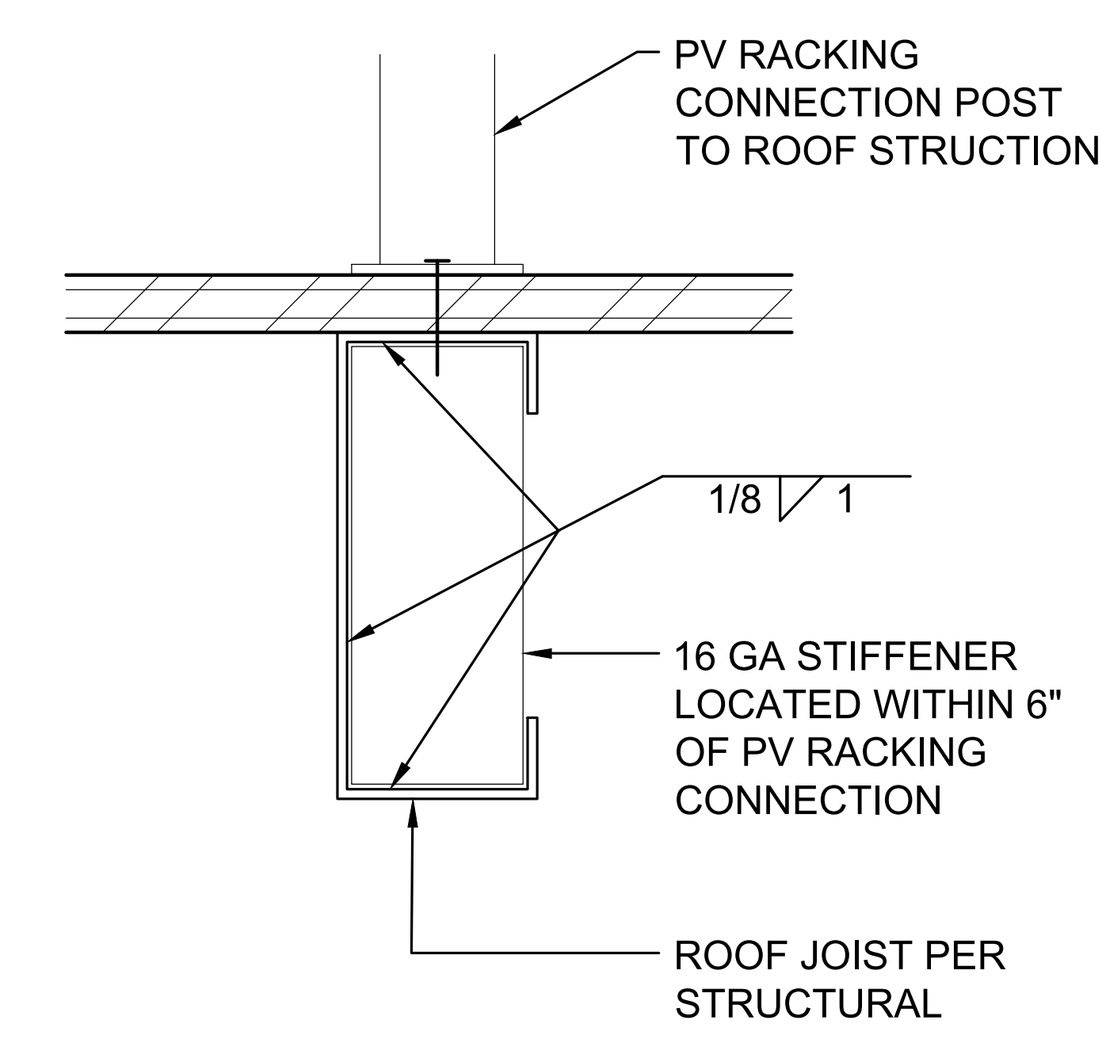
A-0.6C

NOTE:
THE PC ROOF STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE MASS OF A PV SYSTEM (TOTAL ALLOWANCE IS EQUAL TO 0.6 POUNDS x THE TOTAL ROOF AREA) TO BE DESIGNED AND INSTALLED UNDER THE PROJECT SPECIFIC APPLICATION.

THE PC ROOF STRUCTURE HAS BEEN DESIGNED TO ACCOMMODATE THE POTENTIAL UPLIFT ON THE ROOF FRAMING MEMBERS WHEN THE PV SYSTEM IS INSTALLED PER THE EDGE CLEARANCE AND SPACING AS INDICATED BELOW.



PV PANEL LOCATION KEYPLAN



STIFFENER AT PV RACKING CONNECTION SCALE : 3" = 1'-0" A

REQUIRED PV SYSTEM SIZE (kW)

CLIMATE ZONE	BUILDING SIZE								
	24'x40'	36'x40'	48'x40'	60'x40'	72'x40'	84'x40'	96'x40'	108'x40'	120'x40'
	APPROXIMATE CONDITIONED FLOOR AREA								
	960	1440	1920	2400	2880	3360	3840	4320	4800
1	NONE	NONE	NONE	NONE	NONE	4.3	4.9	5.5	6.1
2	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
3	NONE	NONE	NONE	NONE	NONE	4.3	4.9	5.5	6.1
4	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
5	NONE	NONE	NONE	NONE	NONE	4.3	4.9	5.5	6.1
6	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
7	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
8	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
9	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
10	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
11	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
12	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
13	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
14	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
15	NONE	NONE	4.7	5.9	7.1	8.3	9.4	10.6	11.8
16	NONE	NONE	NONE	NONE	NONE	4.3	4.9	5.5	6.1
ALL ZONES	NONE	NONE	4.7	5.9	7.1	8.3	9.4	10.6	11.8

THE PRESCRIPTIVE MINIMUM REQUIRED PV SYSTEM SIZE IS INDICATED IN THE CHART ABOVE. THE ACTUAL PV SYSTEM SHALL BE INCLUDED IN THE PROJECT SPECIFIC DRAWING PACKAGE. ALL PV SYSTEM COMPONENT, CONNECTIONS AND DETAILING SHALL BE INCLUDED IN THE PROJECT SPECIFIC DRAWING PACKAGE.

WHERE THE PROJECT SPECIFIC DRAWING PACKAGE INDICATES THAT THE BUILDING IS BEING APPROVED FOR A SPECIFIC CLIMATE ZONE THE (MINIMUM) PV SYSTEM SIZE SHALL BE AS INDICATED FOR THAT CLIMATE ZONE IN THE CHART ABOVE. WHERE THE BUILDING IS INTENDED TO BE ELIGIBLE FOR RELOCATION TO ANY CLIMATE ZONE THE (MINIMUM) PV SYSTEM SIZE SHALL BE AS INDICATED IN THE "ALL ZONES" ROW.

PV SYSTEM SIZING AND INSTALLATION REQUIREMENTS 3

CALIFORNIA ENERGY CODE - MANDATORY MEASURES

INTERIOR LIGHTING MANDATORY MEASURES:

- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- EACH ROOM AND AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL BE EQUIPPED WITH MANUAL ON AND OFF LIGHTING CONTROLS PER SECTION 130.1(a).
- ALL ROOMS AND AREAS 100 SF OR GREATER AND WITH MORE THAN 0.5 WATT PER SF OF LIGHTING LOAD WITH 2 OR MORE LUMINAIRES SHALL BE CONTROLLED WITH MULTI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM. CONTROL STEPS SHALL MEET REQUIREMENTS IN TABLE 130.1-A.
- PROVIDE VACANCY SENSOR OR PARTIAL-ON OCCUPANCY SENSOR IN ALL ROOMS.
- ALL GENERAL LIGHTING IN PRIMARY SIDELIT DAYLIT ZONES AND SKYLIT DAYLIT ZONES IN ENCLOSED SPACES WITH 120 WATTS, OR MORE IN COMBINED PRIMARY/SKYLIT ZONES AND 24 SF, OR MORE OF FENESTRATION, SHALL BE CONTROLLED WITH AUTOMATIC DAYLIGHTING CONTROLS PER SECTION 130.1(d).

OUTDOOR LIGHTING MANDATORY MEASURES:

- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- ALL OUTDOOR LIGHTING SHALL BE OPERATED WITH CONTROLS WHICH AUTOMATICALLY TURNS OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE PER SECTION 130.2(c).
- ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS WHICH ARE CONTROLLED BY AN AUTOMATIC SCHEDULING CONTROL PER SECTION 130.2(c).

SPACE CONDITIONING EQUIPMENT MANDATORY MEASURES:

- ALL SPACE CONDITIONING EQUIPMENT SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.2.
- MECHANICAL VENTILATION SHALL BE PROVIDED PER SECTION 120.1.
- ALL SPACE CONDITIONING CONTROLS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 120.2.
- ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 120.4.

BUILDING ENVELOPE MANDATORY MEASURES:

- ALL FENESTRATION PRODUCTS AND EXTERIOR DOORS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.6.
- ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT INFILTRATION AND EXFILTRATION PER SECTION 110.7.
- ALL INSULATION, ROOFING PRODUCTS AND RADIANT BARRIERS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.8.
- THE WEIGHTED AVERAGE U-FACTOR OF THE ROOF ASSEMLY SHALL NOT EXCEED 0.075 PER SECTION 120.7(a).
- THE WEIGHTED AVERAGE U-FACTOR OF THE EXTERIOR WALL ASSEMBLY SHALL NOT EXCEED 0.110 PER SECTION 120.7(b).
- THE WEIGHTED AVERAGE U-FACTOR OF THE FLOOR ASSEMBLY SHALL NOT EXCEED 0.071 PER SECTION 120.7(c).

SOLAR READY AND ELECTRICAL DISTRIBUTION MANDATORY MEASURES:

- A SOLAR ZONE SHALL BE PROVIDED ON THE ROOF OF THE BUILDING PER SECTION 110.10(b).
- A PATHWAY SHALL BE PROVIDED FROM THE SOLAR ZONE TO AN INDICATED LOCATION SUITABLE FOR THE FUTURE INSTALLATION OF INVERTERS AND METERING EQUIPMENT PER SECTION 110.10(c).
- ELECTRICAL SERVICE METERING SHALL UTILIZE A PERMANENTLY INSTALLED METERING SYSTEM PER SECTION 130.5(a).
- SEPERATION OF ELECTRICAL CIRCUITS SHALL NOT BE REQUIRED WHERE ELECTRICAL SERVICE OR FEEDER IS RATED AT 50 KVA OR LESS PER SECTION 130.5(b).
- THE VOLTAGE DROP TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5% PER SECTION 130.5(c).

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE
-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

THIS LIST OF REQUIRED ACCEPTANCE TESTS FOR THE PROJECT IS FOUND IN THE LAST PAGES OF THE ENERGY COMPLIANCE REPORTS (T24) UNDER DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE.

CALIFORNIA ENERGY CODE - MANDATORY MEASURES 1

CONSTRUCTION WASTE MANAGEMENT PLAN

A. DEFINITIONS
1. CONSTRUCTION AND DEMOLITION (C&D) WASTE: INCLUDES ALL NON-HAZARDOUS SOLID WASTES RESULTING FROM CONSTRUCTION, REMODELING, ALTERATIONS, REPAIR, AND DEMOLITION. INCLUDES MATERIAL THAT IS RECYCLED, REUSED, SALVAGED OR DISPOSED AS GARBAGE.
2. RECYCLING: THE PROCESS OF SORTING, CLEANING, TREATING, AND RECONSTITUTING MATERIALS FOR THE PURPOSE OF USING THE MATERIAL IN THE MANUFACTURE OF A NEW PRODUCT.
3. CO-MINGLED C&D RECYCLING: THE PROCESS OF COLLECTING MIXED RECYCLABLE MATERIALS IN ONE CONTAINER ON-SITE. THE CONTAINER IS TAKEN TO A MATERIAL RECOVERY FACILITY WHERE MATERIALS ARE SEPARATED FOR RECYCLING.

B. PERFORMANCE REQUIREMENTS
1. GENERAL: WASTE MATERIAL GENERATED DURING PROJECTS SHALL BE RECYCLED OR REUSED WHENEVER PRACTICABLE. DIVERT A MINIMUM OF 90% C&D WASTE, BY WEIGHT, FROM THE LANDFILL BY A CO-MINGLED C&D RECYCLING FACILITY.
   I. C&D WASTE MATERIALS THAT SHALL BE SALVAGED, REUSED OR RECYCLED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   CONCRETE, METALS, WINDOW GLASS, WOOD, GYPSUM BOARD, CARPETING AND PAD, CEILING TILES

C. QUALITY ASSURANCE
1. PRECONSTRUCTION CONFERENCE: REVIEW METHODS AND PROCEDURES RELATED TO WASTE MANAGEMENT INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
   I. REVIEW AND DISCUSS WASTE MANAGEMENT PLAN INCLUDING RESPONSIBILITIES OF WASTE MANAGEMENT COORDINATOR.
   II. REVIEW REQUIREMENTS FOR DOCUMENTING QUANTITIES OF EACH TYPE OF MATERIALS THAT WILL BE SALVAGED, RECYCLED OR DISPOSED OF AS WASTE.
   III. REVIEW PROCEDURES FOR PERIODIC WASTE COLLECTION AND TRANSPORTATION TO RECYCLING AND DISPOSAL FACILITIES.
   IV. REVIEW WASTE MANAGEMENT REQUIREMENTS FOR EACH TRADE.

D. WASTE MANAGEMENT PLAN
1. INDENTIFY AND CONTRACT WITH A WASTE MANAGEMENT SERVICES PROVIDER OR ASSIGN RESPONSIBILITY TO INHOUSE WASTE MANAGEMENT PROJECT ADMINISTRATOR
2. RESPONSIBLE PARTY SHALL DEVELOP AND PROVIDE A PLAN WHICH INCLUDES THE FOLLOWING INFORMATION:
   I. TYPES OF C&D WASTE EXPECTED TO BE GENERATED DURING DEMOLITION AND CONSTRUCTION.
   II. PROPOSED METHODS FOR C&D WASTE SALVAGE, REUSE, RECYCLING AND DISPOSAL.
   III. PROPOSED METHODS FOR SALVAGE, REUSE, RECYCLING AND DISPOSAL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, ONE OR MORE OF THE FOLLOWING:
   A. REQUIRING SUBCONTRACTORS TO TAKE THEIR C&D WASTE TO A RECYCLING FACILITY,
   B. CONTRACTING WITH A RECYCLING HAULER TO HAUL RECYCLABLE C&D WASTE TO AN APPROVED RECYCLING OR MATERIAL RECOVERY FACILITY,
   C. PROCESSING AND REUSING MATERIALS ON-SITE

E. WASTE MANAGEMENT REPORT
1. WASTE MANAGEMENT SERVICES PROVIDER OR ADMINISTRATOR SHALL SUBMIT A CUMULATIVE WASTE MANAGEMENT REPORT ON A REGULAR BASIS WHICH INCLUDES:
   I. A RECORD OF THE TYPE AND QUANTITY, BY WEIGHT, OF EACH MATERIAL SALVAGED, REUSED, RECYCLED OR DISPOSED.
   II. TOTAL QUANTITY OF WASTE RECYCLED AS A PERCENTAGE OF TOTAL WASTE.
   III. DISPOSAL RECEIPTS: COPY OF RECEIPTS ISSUED BY A DISPOSAL FACILITY FOR C&D WASTE THAT IS DISPOSED IN A LANDFILL.
   IV. RECYCLING RECEIPTS: COPY OF RECEIPTS ISSUED BY APPROVED RECYCLING FACILITIES FOR COMINGLED MATERIALS. INCLUDE WEIGHT TICKETS FROM THE RECYCLING HAULER OR MATERIAL RECOVERY FACILITY AND VERIFICATION OF THE RECYCLING RATE FOR CO-MINGLED LOADS AT THE FACILITY.
   V. SALVAGED MATERIALS DOCUMENTATION: TYPES AND QUANTITIES, BY WEIGHT, FOR MATERIALS SALVAGED FOR REUSE ON SITE, SOLD OR DONATED TO A THIRD PARTY.

F. CONSTRUCTION WASTE MANAGEMENT, GENERAL REQUIREMENTS
1. USE DETAILED MATERIAL ESTIMATES TO REDUCE RISK OF UNPLARMED AND POTENTIALLY WASTEFUL CUTS.
2. TO THE GREATEST EXTENT POSSIBLE, INCLUDE IN MATERIAL PURCHASING AGREEMENTS A WASTE REDUCTION PROVISION REQUESTING THAT MATERIALS AND EQUIPMENT BE DELIVERED IN PACKAGING MADE OF RECYCLABLE MATERIAL, THAT THEY REDUCE THE AMOUNT OF PACKAGING, THAT PACKAGING BE TAKEN BACK FOR REUSE OR RECYCLING, AND TO TAKE BACK ALL UNUSED PRODUCT. INSURE THAT SUBCONTRACTORS REQUIRE THE SAME PROVISIONS IN THEIR PURCHASE AGREEMENTS.
3. CONDUCT REGULAR VISUAL INSPECTIONS OF DUMPSTERS AND RECYCLING BINS TO REMOVE CONTAMINANTS.
4. A MINIMUM OF 65% (BY WEIGHT) OF THE NON-HAZARDOUS CONSTRUCTION WASTE SHALL BE RECYCLED AND/OR SALVAGED FOR REUSE.
5. CONSTRUCTION WASTE MATERIALS SHALL BE COLLECTED IN CO-MINGLED CONTAINERS EXCEPT STEEL AND WOOD SHALL BE COLLECTED SEPARATELY.
6. CONSTRUCTION WASTE SHALL BE HAULED, SEPARATED, AND MEASURED BY CR+R (OR AN EQUAL WASTE MANAGEMENT COMPANY). A REPORT SHALL BE PROVIDED INDICATING THE DIVERSION RATE (BY VOLUME).

G. REMOVAL OF CONSTRUCTION WASTE MATERIALS, GENERAL REQUIREMENTS
1. REMOVE C&D WASTE MATERIALS FROM PROJECT SITE ON A REGULAR BASIS. DO NOT ALLOW C&D WASTE TO ACCUMULATE ON-SITE.
2. TRANSPORT C&D WASTE MATERIALS OFF PROPERTY AND LEGALLY DISPOSE OF THEM.
3. BURNING OF C&D WASTE IS NOT PERMITTED.

IEQ PLAN

A. CONSTRUCTION PHASE:
1. FILTERS
   I. ALL MECHANICAL EQUIPMENT WHICH REQUIRES A FILTER SHALL NOT BE OPERATED WITHOUT A FILTER IN PLACE.
   II. ALL FILTERS SHALL HAVE A MERV RATING OF 13 OR GREATER (2" THICK).
   III. A PRESSURE GAUGE SHALL BE INSTALLED AT ALL MECHANICAL EQUIPMENT REQUIRING FILTERS WHICH MEASURES THE PRESSURE DROP ACROSS THE FILTER AND WHICH IS MARKED TO INDICATE WHEN THE FILTER REQUIRES CLEANING OR REPLACEMENT
2. PROTECTION OF MATERIALS
   I. ALL BUILDING MATERIALS SHALL BE PROTECTED FROM WEATHER AND OTHER MOISTURE SOURCES WHEN RECOMMEND BY THE MANUFACTURER.
   II. ANY POROUS MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL NOT BE INSTALLED.
   III. ANY OTHER MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL BE THOROUGHLY CLEAN AND DECONTAMINATED PRIOR TO INSTALLATION.
3. PROTECTION OF INTERIOR ENVIRONMENT
   I. WHENEVER POSSIBLE ALL SANDING, CUTTING GRINDING OR OTHER ACTIVITIES WHICH WILL GENERATE AIRBORNE PARTICLES SHALL BE PERFORMED AWAY FROM THE BUILDING.
   II. WHERE AIRBORNE PARTICLE GENERATING ACTIVITIES CANNOT BE PERFORMED AWAY FROM THE BUILDING PROTECTIVE MEASURES SHALL BE TAKE TO SEAL INTERIOR AREAS TO REDUCE OR ELIMINATE PARTICLE TRANSFER.
   III. ANY TEMPORARILY UNFILLED EXTERIOR OPENINGS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, TO PREVENT THE MOISTURE AND OTHER CONTAMINANTS FROM ENTERING THE BUILDING.
   IV. ALL WELDING SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF EXTERIOR WALLS WHEREVER POSSIBLE.
4. DUCT SYSTEM CONSTRUCTION
   I. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA HV AC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTWORK.
   II. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS.
   III. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED NFPA 90A & NFPA 90B.
   IV. ONCE INSTALLED ALL OPEN DUCTS AND REGISTERS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, UNTIL THE BUILDING HAS BEEN COMPLETELY INSTALLED AND ENCLOSED AND THE MECHANICAL SYSTEM IS READY TO BE STARTED.
   V. ALL OIL FILM SHALL BE REMOVED FROM DUCTS PRIOR TO INSTALLATION.
   VI. ALL DUST AND DIRT SHALL BE REMOVED FROM BOTH THE INTERIOR AND EXTERIOR OF ALL DUCTS PRIOR TO INSTALLATION.
5. MATERIALS INSTALLATION
   I. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE PROVIDED WHEN MATERIALS WHICH EMIT VOLATILE ORGANIC COMPOUNDS (VOC) ARE INSTALLED.
   II. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE CONTINUED UNTIL SUCH A TIME THAT THE VOC EMISSIONS HAVE DISSIPATED.
   III. ANY TEMPORARY VENTILATION SHALL BE EXHAUSTED TO THE EXTERIOR OF THE BUILDING.
   IV. WHEN TEMPORARY MECHANICAL VENTILATION IS USED A CONSTRUCTION FILTER SHALL BE INSTALLED WITH MERV RATING OF NOT LESS THAN 13 (2" THICK). THE CONSTRUCTION FILTER SHALL BE REPLACED PRIOR TO OCCUPANCY.
   V. MATERIALS INSTALLATION SHALL BE SEQUENCED WHENEVER POSSIBLE TO ALLOW FOR THE INSTALLATION OF VOC EMITTING MATERIALS PRIOR TO THE INSTALLATION OF POROUS AND FIBROUS MATERIALS.
   VI. MATERIALS WHICH EMIT A SIGNIFICANT AMOUNT OF VOCS OR ODORS SHALL BE STORED IN A MANNER WHICH ALLOWS FOR OFF-GASSING, IN A DRY AND WELL VENTILATION AREA, PRIOR TO INSTALLATION.
   VII. CARPETED SURFACES SHALL BE VACUUMED PER THE CRJ/GREEN LABEL VACUUM CLEANER PROGRAM REQUIREMENTS AT COMPLETION OF CONSTRUCTION AND PRIOR TO OCCUPANCY.

LOW EMITTING MATERIALS + MOISTURE MANAGEMENT

SEALANTS AND CAULKS
ALL ADHESIVES, SEALANTS AND CAULKS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.1. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO CARPET, RESILIENT AND WOOD FLOORING ADHESIVES; BASE COVE ADHESIVES; CERAMIC TILE ADHESIVES; DRYWALL AND PANEL ADHESIVES; AEROSOL ADHESIVES; ADHESIVE PRIMERS; ACOUSTICAL SEALANTS; FIRE STOP SEALANTS; HVAC DUCT SEALANTS, SEALANT PRIMERS; AND CAULKS.

PAINTS & COATINGS
ALL PAINTS AND ARCHITECTURAL COATINGS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.3. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO SEALERS, STAINS, CLEAR WOOD FINISHES, FLOOR SEALERS AND COATINGS, WATERPROOFING SEALERS, PRIMERS, FLAT PAINTS AND COATINGS, NON-FLAT PAINTS AND COATINGS, AND RUST PREVENTATIVE COATINGS.

RESILIENT FLOORING SYSTEMS
ALL FLOORING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.6.

COMPOSITE WOOD
ALL OF THE COMPOSITE WOOD PRODUCTS INSTALLED IN THE PROJECT SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.5. COMPOSITE WOOD PRODUCTS IN THIS CATEGORY ARE DEFINED IN THE CALIFORNIA AIR RESOURCES BOARD (CARE) AIRBORNE TOXIC CONTROL MEASURE (ATCM) TO REDUCE FORMALDEHYDE EMISSIONS FROM COMPOSITE WOOD PRODUCTS (SECTIONS 93120-93120.12, TITLE 17, CALIFORNIA CODE OF REGULATIONS. THE AFFECTED PRODUCTS INCLUDE HARDWOOD PLYWOOD, PLYWOOD WITH DECORATIVE SOFTWOOD VENEER, LAMINATED PRODUCTS WITH A COMPOSITE WOOD CORE OR PLATFORM, PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF), AND FINISHED GOODS FABRICATED FROM THESE PRODUCTS.

CEILING & WALL SYSTEMS
ALL CEILING AND WALL SYSTEMS INSTALLED IN THE PROJECT'S INTERIOR TOTALING 90% OR MORE OF THE TOTAL AREAS OF SUCH PRODUCTS SHALL MEET THESE REQUIREMENTS. CEILING AND WALL SYSTEMS INCLUDE BUT ARE NOT LIMITED TO CEILING INSULATION INSTALLED WITHIN THE STRUCTURAL ENVELOP, WALL INSULATION, ACOUSTICAL CEILING PANELS, GYPSUM BOARD WALL PANELS, TACKABLE WALL PANELS, AND WALL COVERINGS. CERAMIC TILE AND OTHER ORGANIC-FREE METAL- OR MINERAL-BASED WALL COVERINGS ARE AVAILABLE FOR CREDIT WITHOUT ANY TESTING REQUIREMENTS. SITE APPLIED ADHESIVES AND SEALANTS AND SITE APPLIED PAINTS AND COATINGS ASSOCIATED WITH CEILING AND WALL SYSTEMS ARE TREATED UNDER OPTIONS 1 AND 2, RESPECTIVELY. CEILING AND WALL SYSTEMS SHALL BE TESTED AND EVALUATED FOR EMISSIONS OF VOCS OF CONCERN WITH RESPECT TO CHRONIC INHALATION EXPOSURES FOLLOWING THE SPECIFICATIONS OF THE CDPH STANDARD METHOD V1.1. THE SEPARATE COMPONENTS OR DISTINCT LAYERS OF THESE SYSTEMS SHALL BE MODELED TO THE STANDARD PRACTICE SCHOOL CLASSROOM USING THE CLASSROOM CEILING AREA AND/OR WALL AREA AS APPROPRIATE. FOR SYSTEMS CONSISTING OF MORE THAN ONE DISTINCT LAYER (E.G., WALLS COMPRISED OF INSULATION, WALL PANEL AND WALL COVERING), ALL LAYERS SHALL INDIVIDUALLY MEET THE REQUIREMENTS OF THE STANDARD PRACTICE.

CARPET SYSTEMS
ALL CARPET SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.4. ALL CARPET SHALL BE PER THE CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM OR SHALL BE LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE. ALL CARPET PAD SHALL BE PER THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.

PRIMARY EXTERIOR DOORS
ALL WALL AND FLOOR SURFACES WITHIN 24" OF A PRIMARY EXTERIOR DOOR SHALL BE NON-ABSORBANT. SEE DETAIL A/- FOR TYPICAL FLOOR AND WALL FINISH DIAGRAM.

ALL PRIMARY EXTERIOR DOORS SHALL BE PROTECTED BY AN OVERHANG, AWNING OR SIMILAR ELEMENT NOT LESS THAN 48" IN DEPTH.

OUTDOOR AIR QUALITY

HVAC, REFRIGERATION AND FIRE SUPPRESSION SYSTEMS SHALL NOT CONTAIN CFCs OR HALONS.

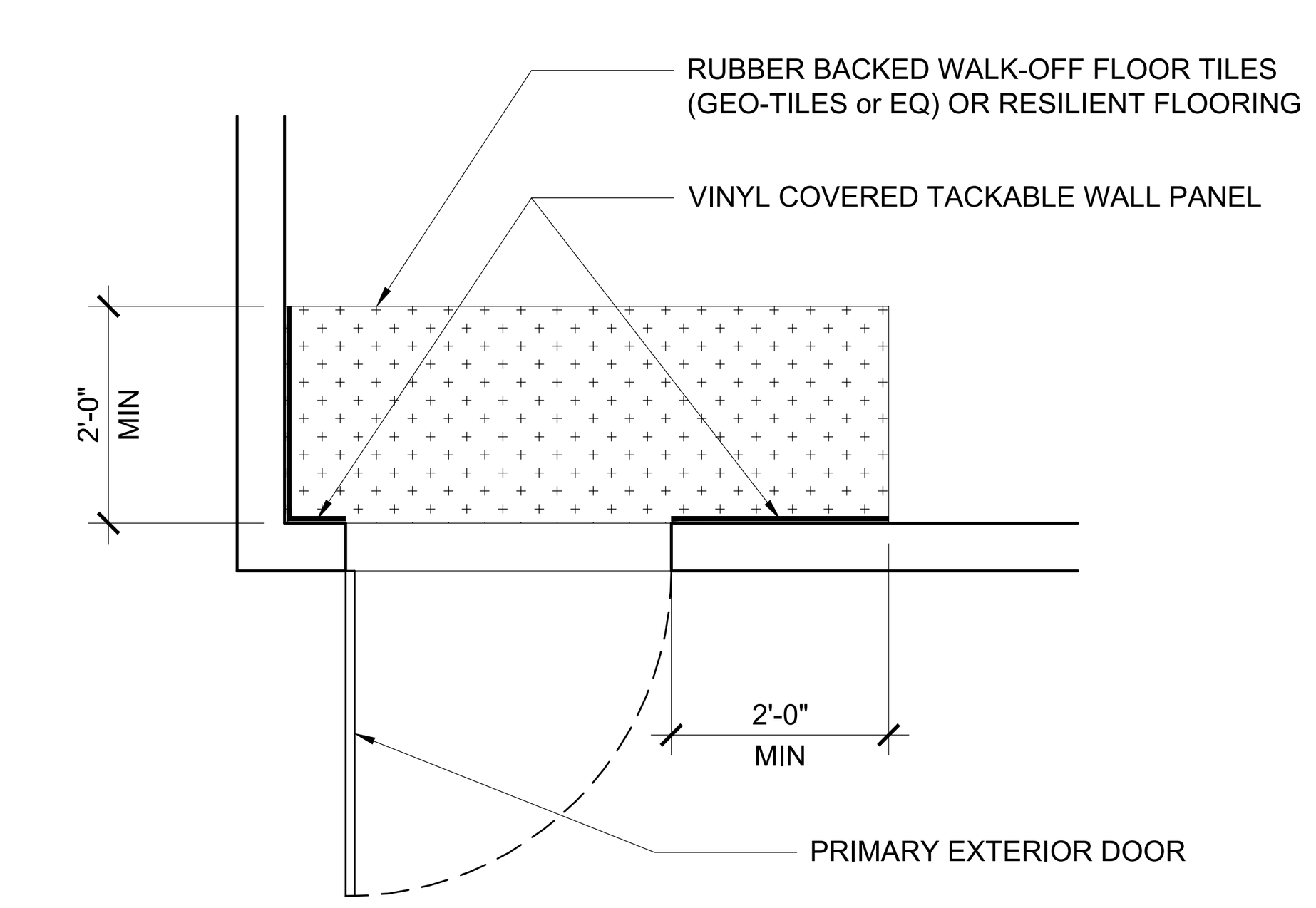
ACOUSTICAL CONTROL

INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. ONE OF THE FOLLOWING ASSEMBLY SHALL BE USED:

- ☐ 2x4 (MIN) STUDS @ 24" O.C. WITH 1 LAYER OF 1/2" GYP BD. EA SIDE OF WALL & 3 1/2" BATT INSULATION, ADDITIONAL LAYERS OF FINISH MATERIAL MAY BE INSTALLED OVER THE GYP BD., GYP BD SHALL BE FASTENED TO THE STUDS w/ 1-1/4" TYPE W SCREWS AT 12" OC, JOINTS SHALL BE STAGGERED (DESIGN #NGC 2012065)(STC-42)
- ☐ 2x4 (MIN) STUDS @ 16" O.C. WITH 2 LAYER OF 5/8" TYPE "X" GYP BD. EA SIDE OF WALL & 3 1/2" BATT INSULATION, ADDITIONAL LAYERS OF FINISH MATERIAL MAY BE INSTALLED OVER THE GYP BD., BASE LAYER OF GYP BD SHALL BE FASTENED TO THE STUDS w/1-7/8" 6d COATED NAILS AT 6" OC, FACE LAYER OF GYP BD SHALL BE FASTENED TO THE STUDS w/2-3/8" 8d COATED NAILS AT 8" OC, VERTICAL JOINTS SHALL OCCUR OVER A STUD, STAGGER JOINTS EACH LAYER AND EACH SIDE (DESIGN #NGC 2364) (STC-41)

WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDINGS CONSTRUCTED PER THIS PC SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.507.4. THE ARCHITECT OF RECORD FOR THE PROJECT SITE THE PC BUILDING IS TO BE INSTALLED UPON SHALL IDENTIFY ANY ADDITIONAL NOISE TRANSMISSION MEASURES WHICH ARE REQUIRED BASED UPON THE NOISE LEVEL PRESENT AT THE PROJECT SITE. IF NECESSARY EXTERIOR WALL, ROOF AND WINDOW ASSEMBLIES MEETING THE STC AND OR OITC RATINGS SPECIFIED IN SECTIONS 5.507.4.1 + 5.507.4.1.1 SHALL BE UTILIZED.

WHEN THE PC BUILDING IS PLACED ADJACENT TO ANOTHER BUILDING, A SEPARATION (AIR GAP) OF NOT LESS THAN 6" SHALL BE PROVIDED.



A PRIMARY EXTERIOR WALL FINISH DIAGRAM

CALGREEN SPECIFICATIONS 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

PV SYSTEM REQUIREMENTS, ENERGY MANDATORY MEASURES & CALGREEN SPEC'S

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

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APP. 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

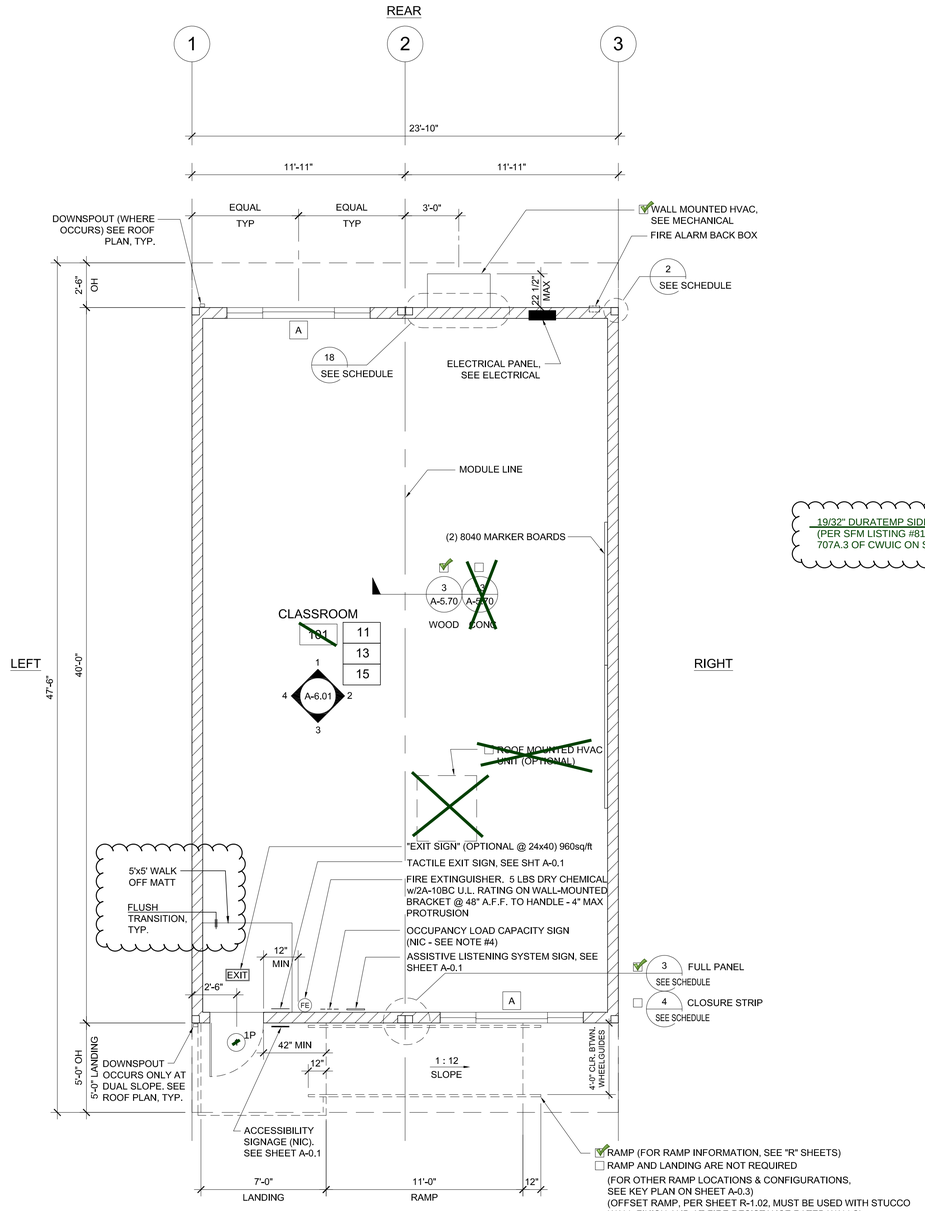
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

A-0.7



THIS ORIENTATION OCCURS @ CLASSROOMS 11,13 & 15. SEE KEY MAP A-1.01N

19/32" DURATEMP SIDING OVER STUDS (PER SFM LISTING #8140-2031.0004). SEE 707A.3 OF CWUIC ON SHEET A-0.2

NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. PER IR 16-1 (4.1)
   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, REQUIRED PV SYSTEM CAPACITY (kW), WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 2022 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = S_S
2. VINYL TACKBOARD INTERIOR FINISH SHALL COMPLY WITH CBC SECTION 803.7
3. LOCATIONS OF DOORS AND WINDOWS MAY VARY PER JOB. (IF THE NUMBER OF WINDOWS INCREASE, A NEW TITLE 24 SHALL BE SUBMITTED TO DSA)
4. POSTING OF OCCUPANCY LOAD SIGNS SHALL COMPLY WITH CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 ART. 3.30 (NOT IN MODULAR MANUFACTURER'S SCOPE OF WORK
5. IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS
6. FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBES, PER IR 16-1.13 (2.1)
7. ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION
8. INTERIOR WALLS MAY BE ADDED TO FLOOR PLAN. SEE STRUCTURAL
9. FOR CASEWORK, TEACHER WALL, OR TV BLOCKING OPTIONS, SEE SHEET A-5.80
10. INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. SEE SHEET A-0.7 FOR WALL ASSEMBLY
11. TOILET ROOM FLOORING AND BASE SHALL BE INSTALLED PER 10/A-5.70 IN LIEU OF PROVIDING A CURB (IR 23-2)
12. DOORS SHALL PROVIDED WITH MINIMUM 4' CANOPY OR ROOF OVERHANG

DETAIL SCHEDULE

FINISH:	SHEET #:
☑ SIDING OVER WOOD STUDS	A-5.50
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

FIRE PROTECTION:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

WALL LEGEND

- NOMINAL 4" WALL STUD ☐
- NOMINAL 6" WALL STUD ☑
- NOMINAL 8" WALL STUD ☐

A WINDOW PER SCHEDULE SHEET A-0.2

(#) DOOR PER SCHEDULE SHEET A-0.2

NOTES:
ALL EXTERIOR WALL FRAMING SHALL BE 2x6 (OR 6" NOMINAL STEEL STUD) (MIN). EXCEPTION: AT UNCONDITIONED RESTROOM MODULES.

2x4 (OR 4" NOMINAL STEEL STUD) WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH AT UNCONDITIONED RESTROOM MODULES WITH WALLS OVER 9'-0" IN HEIGHT.

THIS PLAN MAY INCLUDE THE VARIOUS EXERCISABLE OPTIONS APPLICABLE TO THE PC SUCH AS PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS CAN BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES.

SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

MARKING & IDENTIFICATION OF FIRE RATED CONSTRUCTION. (CBC 703.5)
FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:

1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES;
2. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
3. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT AND A MIN. 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING. "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER SIMILAR WORDING.

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PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

FLOOR PLAN
24' x 40'

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

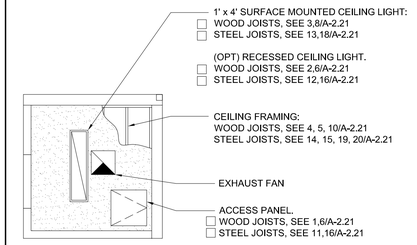
REGISTERED PROFESSIONAL ENGINEER JOHN W STARUN 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

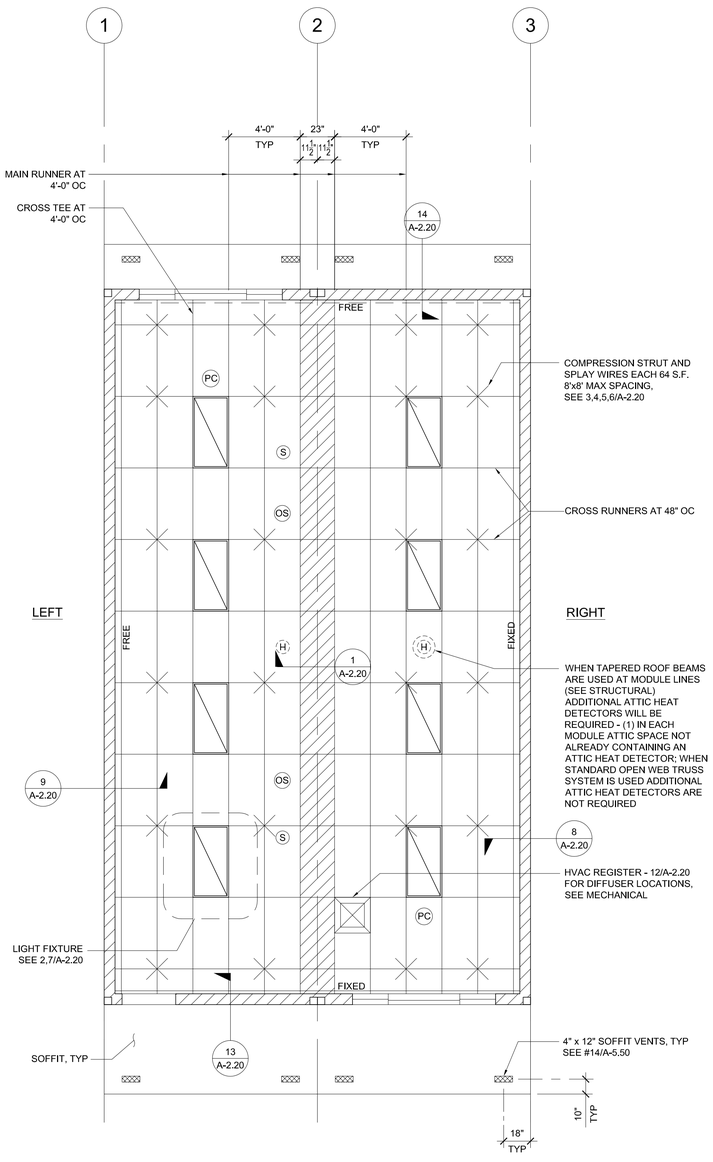
P.C. SHEET NUMBER

A-1.01



HARDLID CEILING (OPTIONAL) SCALE: 1/4" = 1'-0" | 1A

REAR



NOTE:
CEILING TO BE 8'-6" AFF (UNO)

FRONT

NORTH

LEGEND

- T-BAR CEILING
- FIELD INSTALLED PANEL AT MODULE LINE
- 2' x 4' RECESSED LIGHT FIXTURE, HATCHING DENOTES EMERGENCY LIGHT FIXTURE (SEE ELECTRICAL PLAN)
- "OPTIONAL" 1' x 4' RECESSED LIGHT FIXTURE
- SPLAY WIRE
- RETURN AIR REGISTER
- SUPPLY AIR REGISTER
- CEILING EXHAUST FAN
- (OS) CEILING MOUNTED OCCUPANCY SENSOR
- (PC) CEILING MOUNTED PHOTOCELL
- (S) CEILING MOUNTED SMOKE DETECTOR
- (H) ATTIC MOUNTED HEAT DETECTOR

NOTE:
FOR ALL REFLECTED CEILING NOTES SEE SHEET A-0.1

T-BAR SCHEDULE

ARMSTRONG PART NUMBERS ICC-ES ESR-1308

MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328

STANDARD 7/8" WALL ANGLE WITH BERC-2 CLIP (ICC #ESR-1308) 2"
WALL ANGLE: 7810 (OPTIONAL)

REFLECTED CEILING PLAN - A SCALE: 1/4" = 1'-0" | 1

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PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

REFLECTED CEILING PLAN
24' x 40'

REVISIONS

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2.
3.
4.
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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

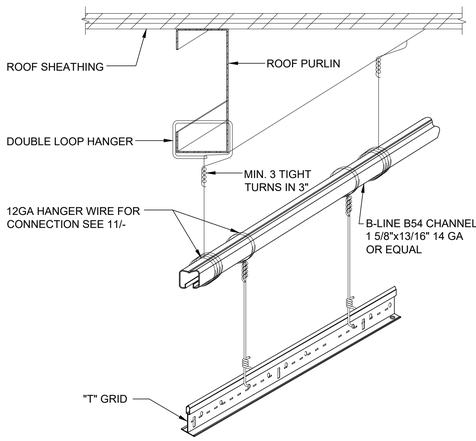
REGISTERED PROFESSIONAL ENGINEER JOHN W STARUN 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

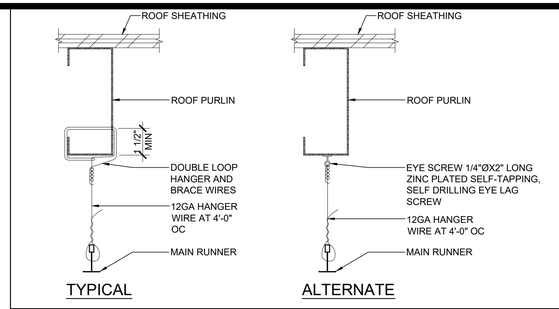
P.C. SHEET NUMBER

A-2.01

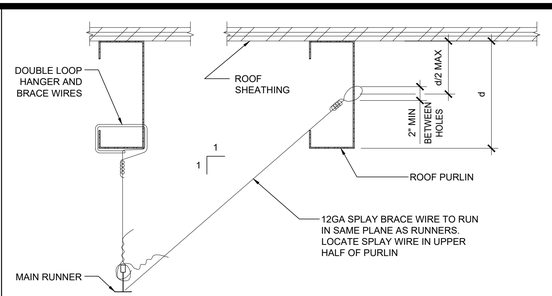


NOTE:
LOCATION MAY VARY (SEE NOTE "C" ON SHEET A-0.1)

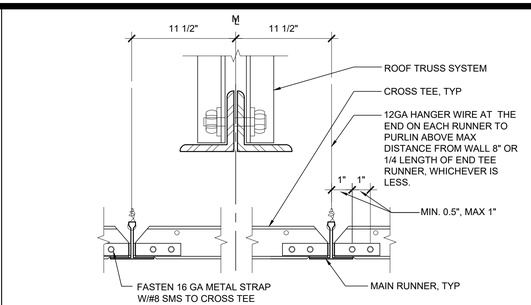
TRAPEZE DETAIL 17



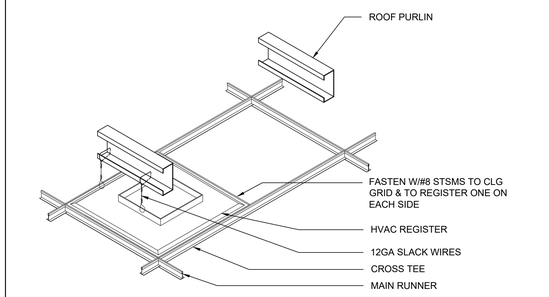
HANGER WIRE DETAIL SCALE : 3"=1'-0" 11



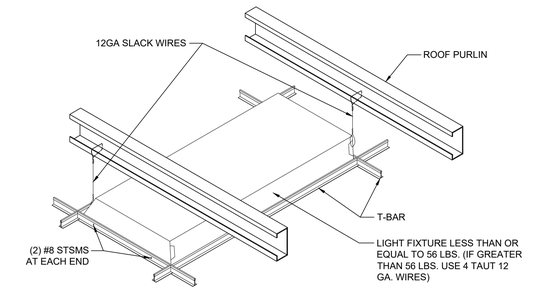
SPLAY BRACING WIRE SCALE : 3"=1'-0" 6



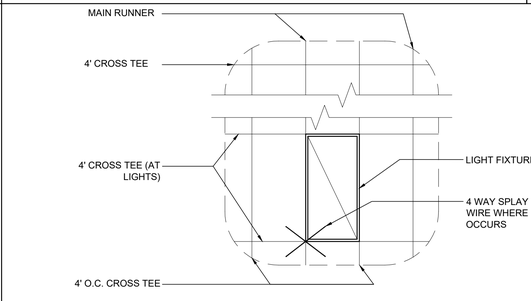
GRID AT MODLINE SCALE : 3"=1'-0" 1



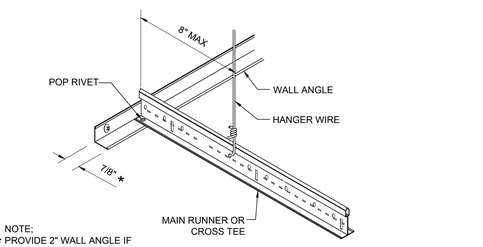
HVAC REGISTER MOUNTING SCALE : NTS 12



LIGHT FIXTURE MOUNTING SCALE : NTS 7

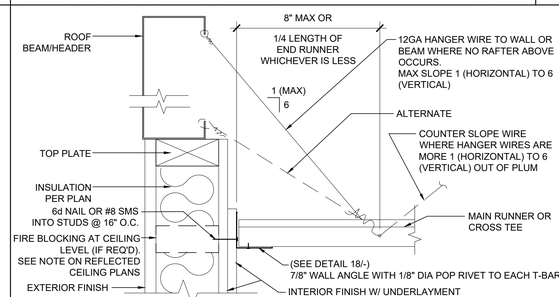


4' CROSS TEE AT LIGHTS SCALE : 3/8"=1'-0" 2

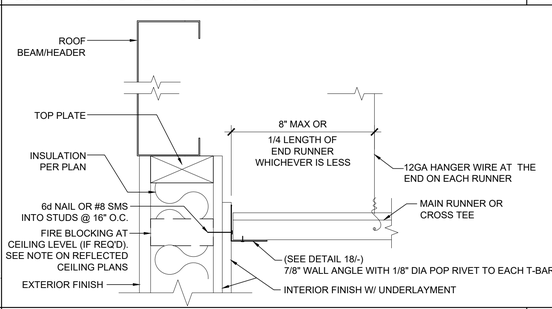


NOTE:
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED ON FREE SIDES

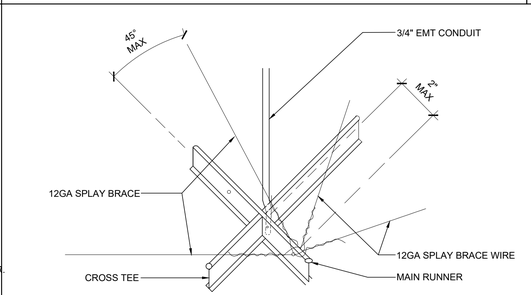
FIXED SIDE SCALE : NTS 18



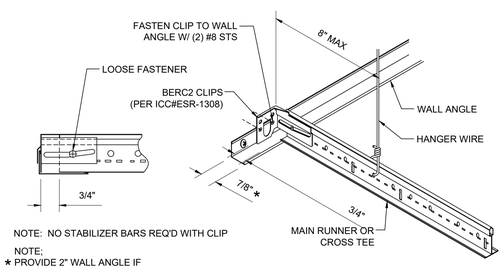
HANGER WIRE - FIXED SIDE (ENDWALL) SCALE : 3"=1'-0" 13



HANGER WIRE - FIXED SIDE (SIDEWALL) SCALE : 3"=1'-0" 8



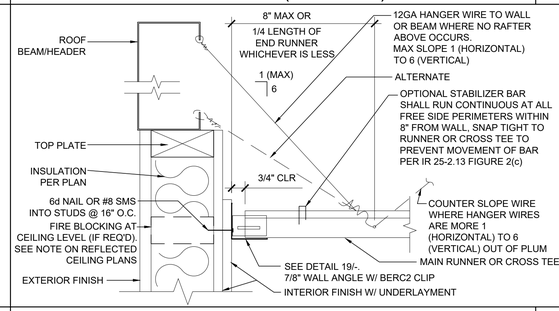
SEISMIC SPLAY - 4 WAY SCALE : NTS 3



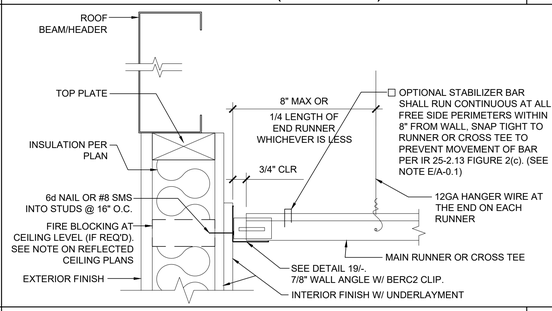
NOTE: NO STABILIZER BARS REQ'D WITH CLIP

NOTE;
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED

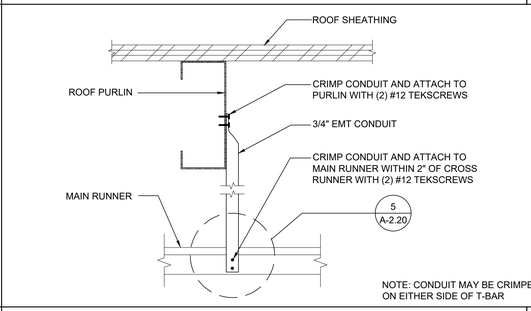
FREE SIDE SCALE : NTS 19



HANGER WIRE - FREE SIDE (ENDWALL) SCALE : 3"=1'-0" 14

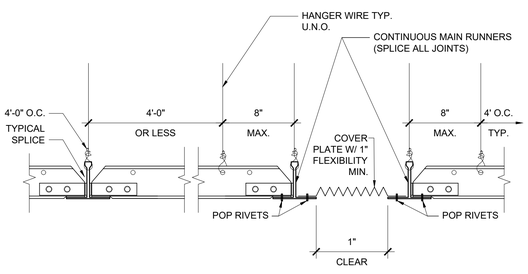


HANGER WIRE - FREE SIDE (SIDEWALL) SCALE : 3"=1'-0" 9

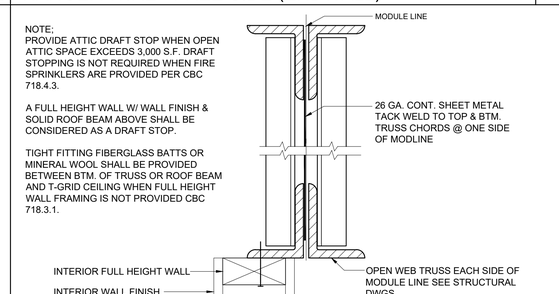


NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR

COMPRESSION STRUT SCALE : 3"=1'-0" 4



GRID SEISMIC SEPARATION JOINT SCALE : 3"=1'-0" 20

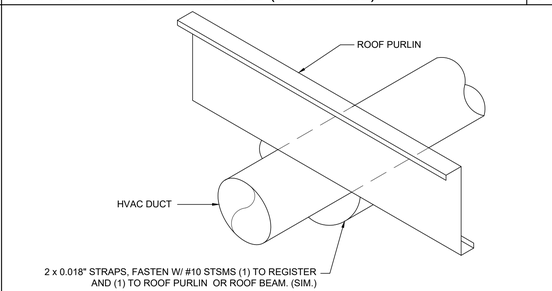


NOTE:
PROVIDE ATTIC DRAFT STOP WHEN OPEN ATTIC SPACE EXCEEDS 3,000 S.F. DRAFT STOPPING IS NOT REQUIRED WHEN FIRE SPRINKLERS ARE PROVIDED PER CBC 718.4.3.

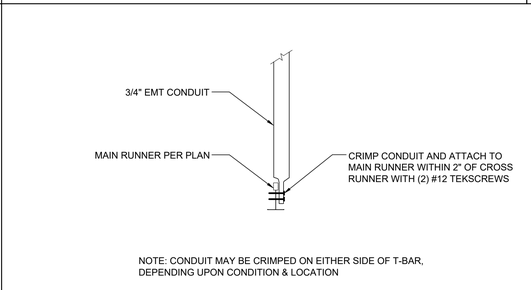
A FULL HEIGHT WALL W/ WALL FINISH & SOLID ROOF BEAM ABOVE SHALL BE CONSIDERED AS A DRAFT STOP.

TIGHT FITTING FIBERGLASS BATTS OR MINERAL WOOL SHALL BE PROVIDED BETWEEN BTM. OF TRUSS OR ROOF BEAM AND T-GRID CEILING WHEN FULL HEIGHT WALL FRAMING IS NOT PROVIDED CBC 718.3.1.

ATTIC DRAFT STOP SCALE : 3"=1'-0" 15



HVAC DUCTWORK MOUNTING SCALE: NTS 10



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION

COMPRESSION STRUT SCALE : 3"=1'-0" 5

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

CEILING DETAILS
T-GRID

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

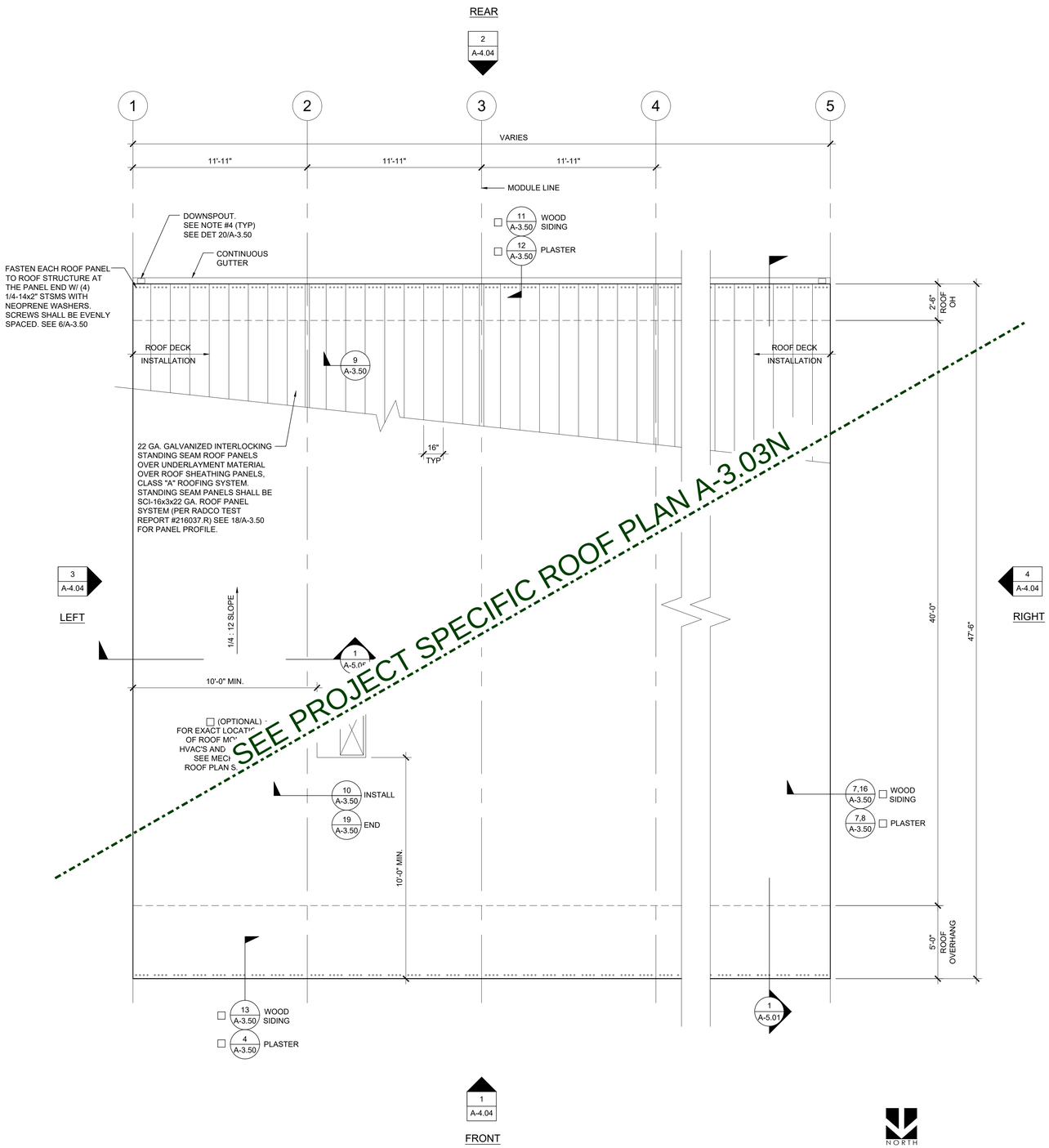
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

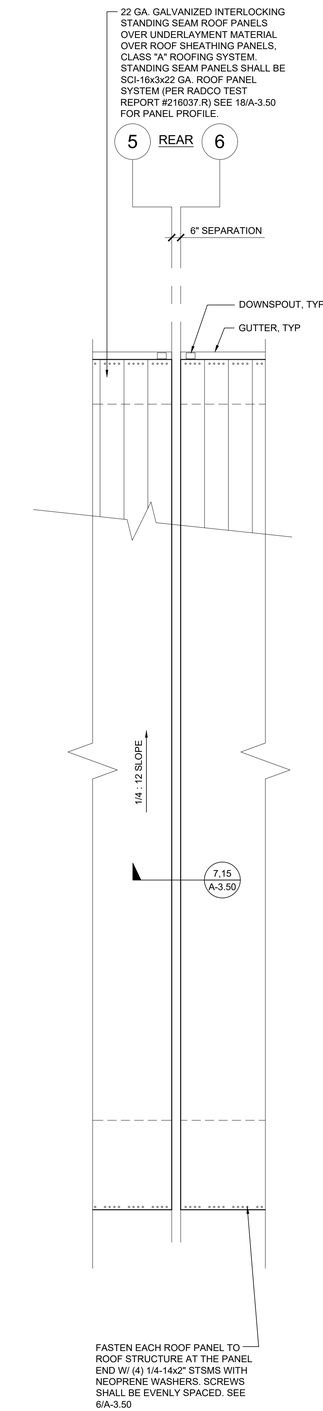
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-2.20

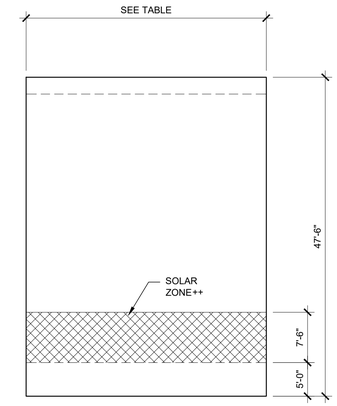




NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
3. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. OR A GUARDRAIL SHALL BE PROVIDED PER 7/S-2.60
4. SEE DETAIL "A" (THIS SHEET) FOR ROOF SYSTEM UPLIFT CAPACITY

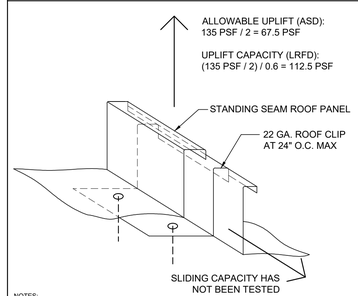
SOLAR ZONE



KEYPLAN

SOLAR ZONE CALCULATION TABLE		
BUILDING SIZE	REQUIRED SOLAR ZONE	PROVIDED SOLAR ZONE
24'-0" x 40'-0"	172 SF	178 SF
36'-0" x 40'-0"	258 SF	267 SF
48'-0" x 40'-0"	344 SF	356 SF
60'-0" x 40'-0"	430 SF	445 SF
72'-0" x 40'-0"	516 SF	534 SF
84'-0" x 40'-0"	602 SF	623 SF
96'-0" x 40'-0"	688 SF	712 SF
108'-0" x 40'-0"	774 SF	801 SF
120'-0" x 40'-0"	860 SF	890 SF
ROOF AREA PER MODULE	=	567 SF
REQUIRED SOLAR ZONE	=	86 SF
PROVIDED SOLAR ZONE	=	89 SF

++ NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.



NOTES:

1. THE ALLOWABLE UPLIFT VALUES PROVIDED ABOVE ARE BASED ON TESTING PERFORMED IN ACCORDANCE WITH UL STANDARD 1897 (UPLIFT TEST FOR ROOF COVERING SYSTEM).

   TEST REPORT:
   TI RADCO (RADCO, A TWINING COMPANY)
   REPORT # 216037.R
   DATE: 6.22.2021

2. THE ULTIMATE LOAD DETERMINED BY TESTING = 135 PSF.
   A SAFETY FACTOR OF 2.0 HAS BEEN USED IN CALCULATING THE ALLOWABLE VALUES.
3. PV PANEL ATTACHMENT OPTION IS NOT INCLUDED WITHIN THIS PC.
4. THE CLIP SLIDING CAPACITY HAS NOT BEEN TESTED. IF PV PANELS ARE INSTALLED THE SLIDING CAPACITY OF THE ROOF PANEL SYSTEM MUST BE DETERMINED BY FIELD TESTING FOR ROOF SLOPES OF NOT LESS THAN 7 DEGREES.
   EXCEPTION: WHERE THE SLIDING LOAD FOR SEISMIC AND WIND FORCES ON THE PV PANEL SYSTEM IS LESS THAN THE DISPLACED DESIGN LIVE LOAD SLIDING COMPONENT PER DSA IR 16-8 (SECTION 5.1.1.2).
5. CONVERSION FROM ALLOWABLE UPLIFT (ASD) TO UPLIFT CAPACITY (LRFD) IS BASED ON ASD WIND PRESSURE = 0.6 x (LFRD WIND PRESSURE).

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

ROOF PLAN
48' TO 120' x 40'
METAL DECK - MONO SLOPE

REVISIONS

1	
2	
3	
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REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

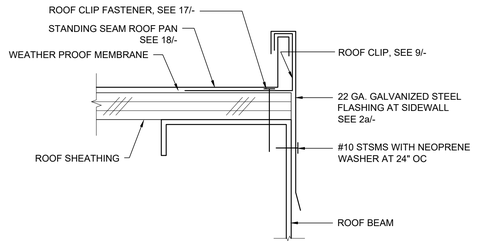
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER
A-3.03

ROOF PLAN - METAL DECK - MONO SLOPE SCALE: 1/4" = 1' - 0" 2

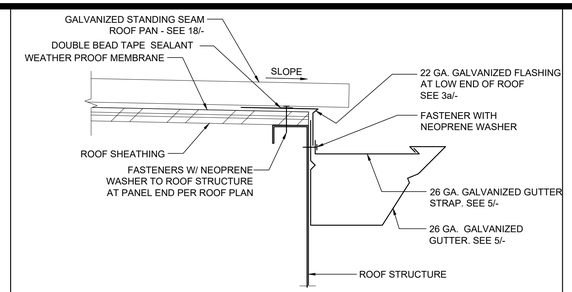
ROOF SEP. PLAN OPTION SCALE: 1/4" = 1' - 0" 1

ROOF SYSTEM CAPACITY SCALE: NTS A



REF: A3.01, A3.02, A3.03, A3.04

ROOF FLASHING AT SIDEWALL — SCALE : 6"=1'-0" — 16



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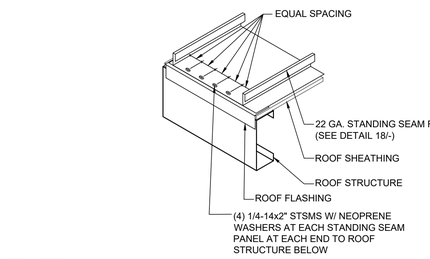
GUTTER AT ROOF FASCIA BEAM — SCALE : 3"=1'-0" — 11



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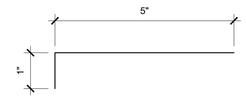
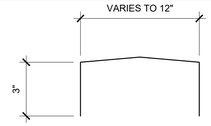
STANDING SEAM PANEL AT ENDS — SCALE : NTS — 6



REF: A3.50

FLASHING AT MODULE LINE WALL — SCALE : 6"=1'-0" — 1a



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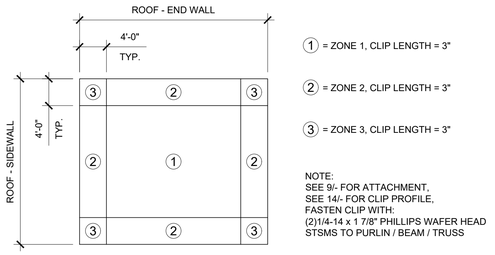
0.018" ROOF CAP AT MODULE LINE — SCALE : 6"=1'-0" — 1b



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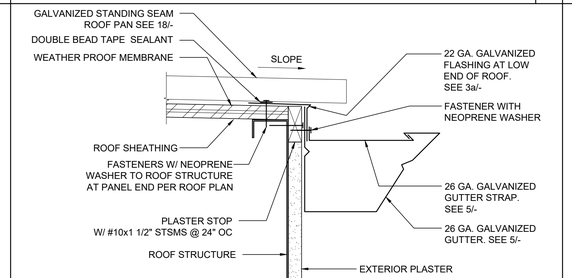
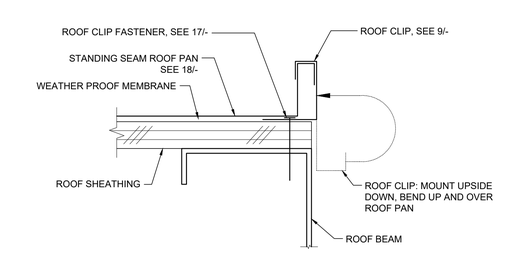
ROOF CLIP ZONES — NTS — 17



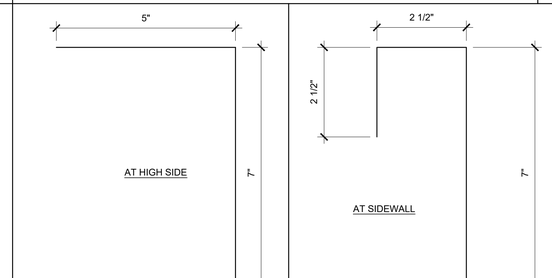
REF: A3.01, A3.02, A3.03, A3.04

GUTTER AT ROOF FASCIA BEAM — SCALE : 3"=1'-0" — 12



REF: A3.01, A3.02, A3.03, A3.04

STARTER ROOF PAN CONNECTION — SCALE : 6"=1'-0" — 7

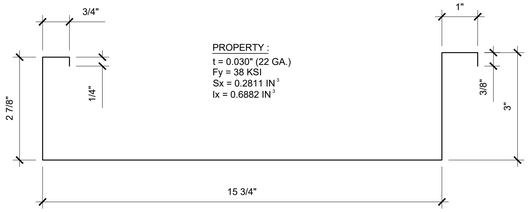


REF: A3.50

ROOF FLASHING — SCALE : 6"=1'-0" — 2b

REF: A3.50

ROOF FLASHING — SCALE : 6"=1'-0" — 2a



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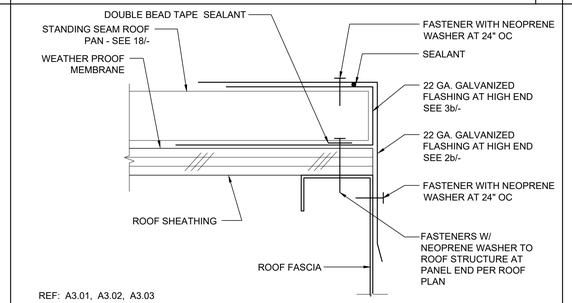
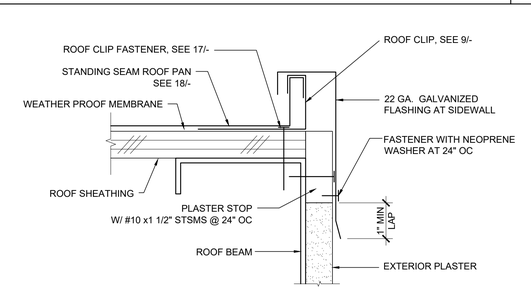
ROOF DECK PROFILE — SCALE : NTS — 18



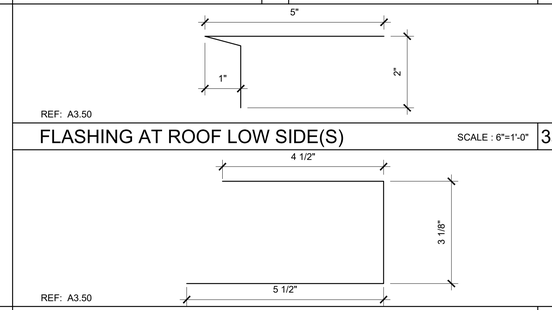
REF: A3.01, A3.02, A3.03

ROOF FLASHING AT HIGH SIDE — SCALE : 6"=1'-0" — 13



REF: A3.01, A3.02, A3.03, A3.04

ROOF FLASHING AT SIDEWALL — SCALE : 6"=1'-0" — 8



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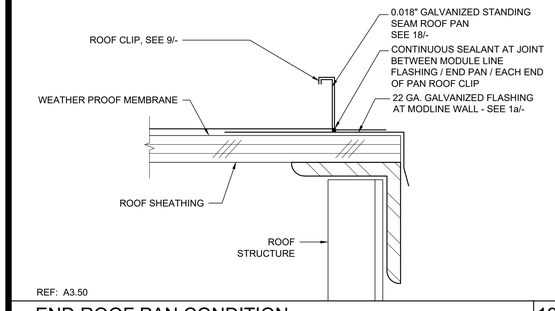
FLASHING AT ROOF HIGH SIDE — SCALE : 6"=1'-0" — 3b



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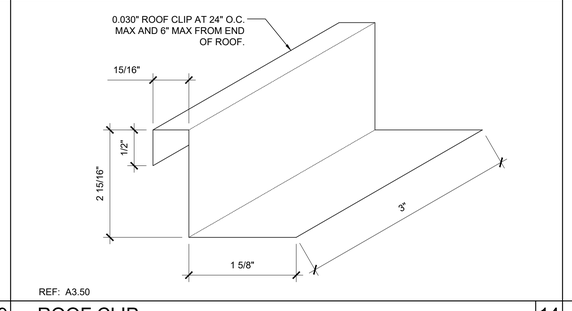
END ROOF PAN CONDITION — SCALE : 6"=1'-0" — 19



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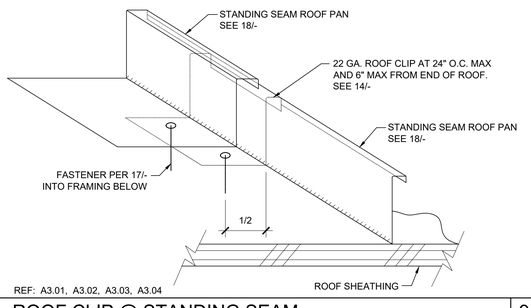
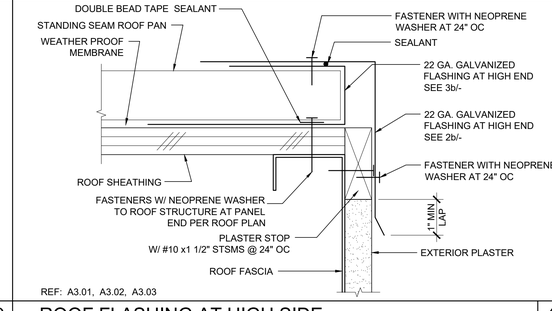
ROOF CLIP — SCALE : 1'-0"=1'-0" — 14



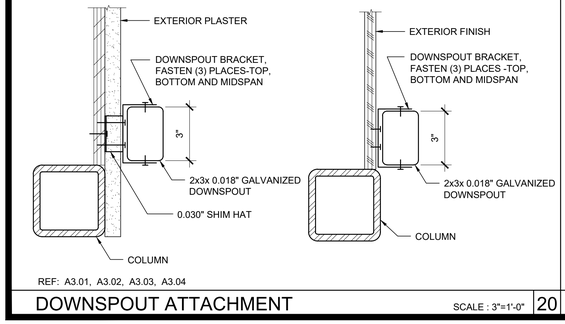
REF: A3.01, A3.02, A3.03, A3.04

ROOF CLIP @ STANDING SEAM — SCALE : NTS — 9



REF: A3.01, A3.02, A3.03

ROOF FLASHING AT HIGH SIDE — SCALE : 6"=1'-0" — 4



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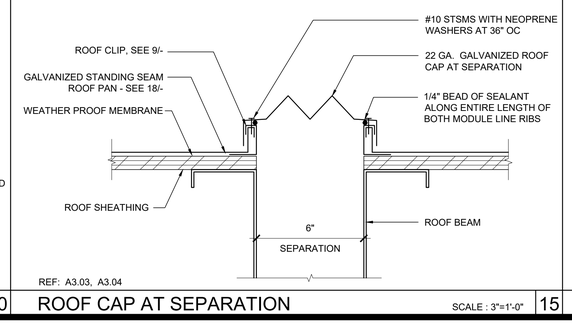
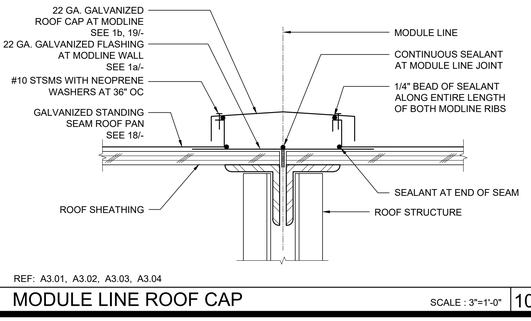
DOWNSPOUT ATTACHMENT — SCALE : 3"=1'-0" — 20



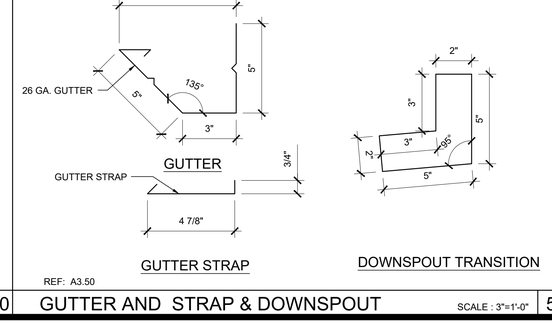
REF: A3.03, A3.04

ROOF CAP AT SEPARATION — SCALE : 3"=1'-0" — 15



REF: A3.01, A3.02, A3.03, A3.04

MODULE LINE ROOF CAP — SCALE : 3"=1'-0" — 10



REF: A3.50

GUTTER AND STRAP & DOWNSPOUT — SCALE : 3"=1'-0" — 5

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PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

ROOF DETAILS
STANDING SEAM ROOF DECK

REVISIONS

1
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3
4
5

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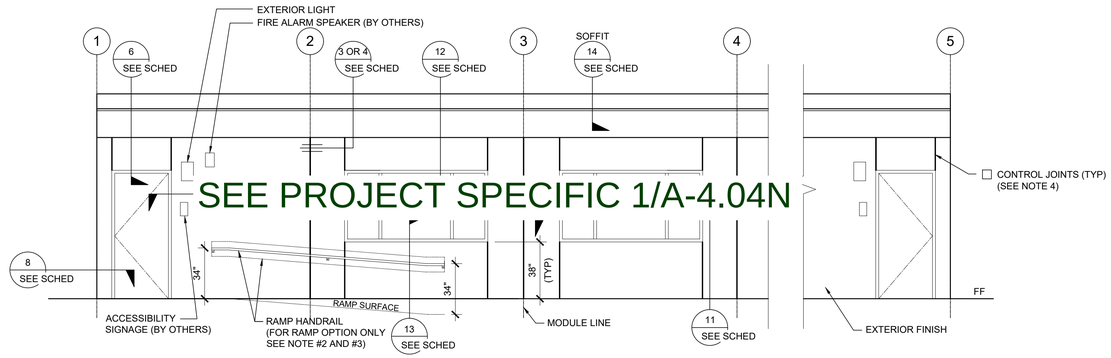
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

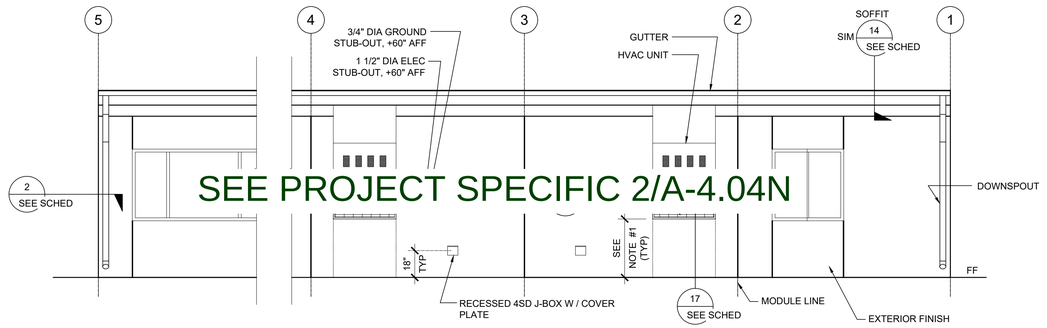
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

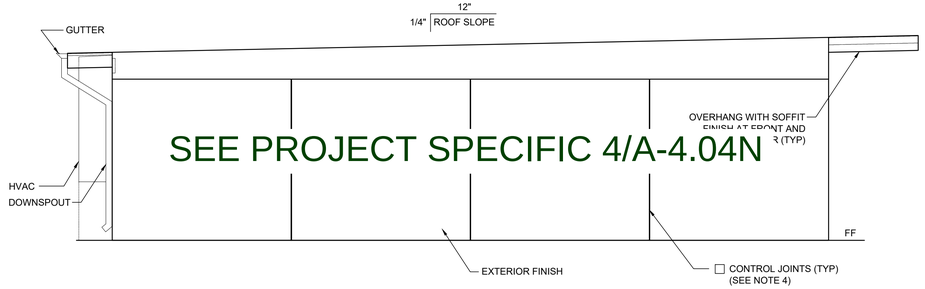
A-3.50



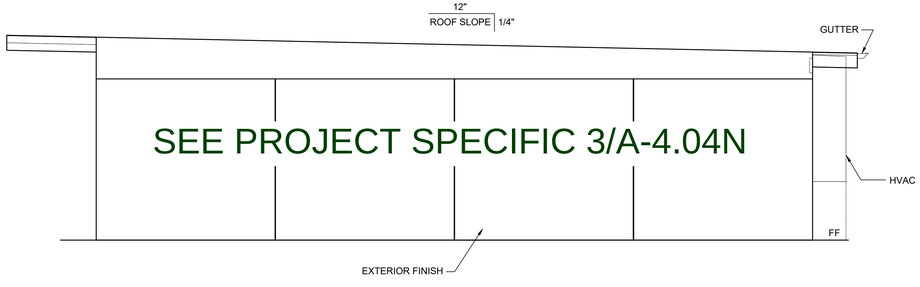
EXTERIOR ELEVATIONS - FRONT - MONO SLOPE — SCALE: 1/4" = 1' - 0" | 1



EXTERIOR ELEVATIONS - REAR - MONO SLOPE — SCALE: 1/4" = 1' - 0" | 2



EXTERIOR ELEVATIONS - LEFT - MONO SLOPE — SCALE: 1/4" = 1' - 0" | 3



EXTERIOR ELEVATIONS - RIGHT - MONO SLOPE — SCALE: 1/4" = 1' - 0" | 4

NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
2. RAMP (WHERE OCCURS), NOT SHOWN FOR CLARITY.
3. WALL BEYOND HANDRAIL SHALL NOT HAVE ANY SHARP OR ABRASIVE SURFACE ADJACENT TO HANDRAILS. (GRIND SMOOTH ALL METAL RAILING CONNECTIONS - SMOOTH SURFACE TO EXTEND 18" ABOVE HANDRAIL)
4. FOR PLASTER ONLY, PROVIDE CONTROL JOINT AT EACH MODLINE, ON END WALLS, 10'-0" OC AT SIDE WALLS, AND / OR ABOVE AND BELOW OPENINGS. WHERE FIRE RATED WALLS ARE REQUIRED, MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT JOINTS WILL COMPLY WITH CBC SECTION 703.2 AND 705.
5. EXTERIOR PROJECTIONS SHALL COMPLY W/ SECTION 705 AND 1406, 2022 CBC
6. PROVIDE AN OFFSET RAMP (PER SHEET R-1.02) WHEN A RAMP IS REQUIRED ADJACENT TO A STUCCO WALL AND/OR FIRE RESISTANCE RATED EXTERIOR WALL.

DETAIL SCHEDULE

FINISH:	SHEET #:
☑ SIDING OVER WOOD STUDS	A-5.50
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

19/32" DURATEMP SIDING OVER STUDS (PER SFM LISTING #8140-2031.0004). SEE 707A.3 OF CWUIC ON SHEET A-0.2

FIRE RATED DETAIL SCHEDULE

FIRE PROTECTION:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

EXTERIOR ELEVATION
48' TO 120' X 40'
MONO SLOPE

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
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APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24975
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES	24' x 40' PC
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

A-4.04

19/32" DURATEMP SIDING OVER STUDS
(PER SFM LISTING #8140-2031.0004). SEE 707A.3 OF CWUIC ON SHEET A-0.2

DETAIL SCHEDULE

FINISH:	SHEET #:
☑ SIDING OVER WOOD STUDS	A-5.50
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

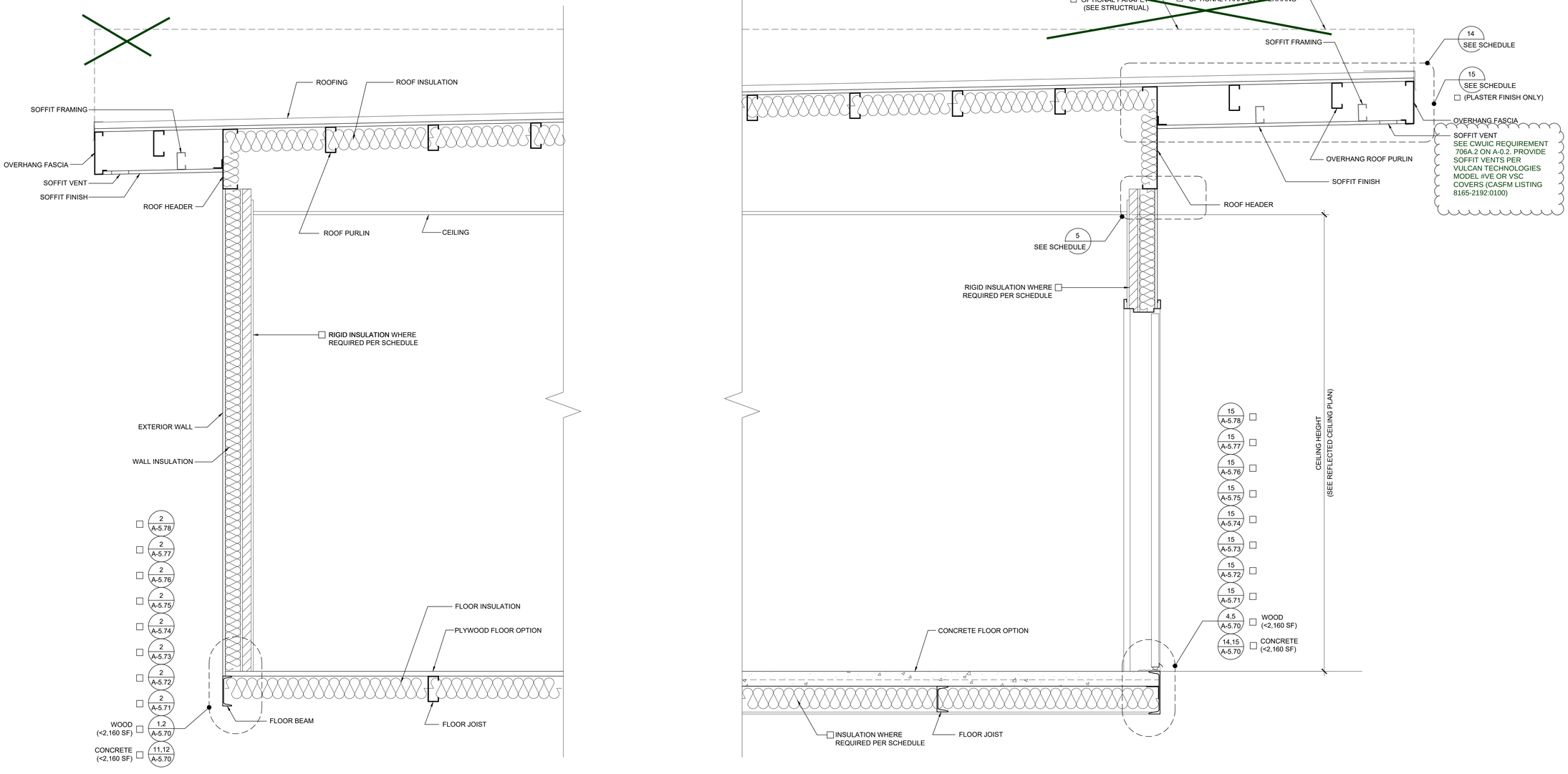
FINISH:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

FLOOR OPTION

- ☑ WOOD FLOOR
- ☐ CONCRETE FLOOR

NOTES

SEALANTS AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL SEALANTS AND CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING AND TO LIMIT AIR LEAKAGE.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS. SEALANT SHALL BE APPLIED WITH A GUN IN A STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS. COMPLETELY FILL THE JOINT AND FIRMLY TOOL AGAINST THE BACKING, MAKING A SMOOTH CONVEX BEAD.
COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.
ALL EXTERIOR JOINTS, PENETRATIONS AND OTHER OPENINGS SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED.



BUILDING SECTION

SCALE: 1" = 1' - 0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

CROSS SECTION
MONO SLOPE

REVISIONS

1	
2	
3	
4	
5	

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CODE: 2022 CBC
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARKEY 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES	24' x 40' PC
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

A-5.01

19/32" DURATEMP SIDING OVER STUDS (PER SFM LISTING #8140-2031.0004). SEE 707A.3 OF CWUIC ON SHEET A-0.2

DETAIL SCHEDULE

FINISH:	SHEET #:
☑ SIDING OVER WOOD STUDS	A-5.50
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

FINISH:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

FLOOR OPTION

- ☐ WOOD FLOOR
- ☐ CONCRETE FLOOR

NOTES

SEALANTS AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL SEALANTS AND CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING AND TO LIMIT AIR LEAKAGE.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
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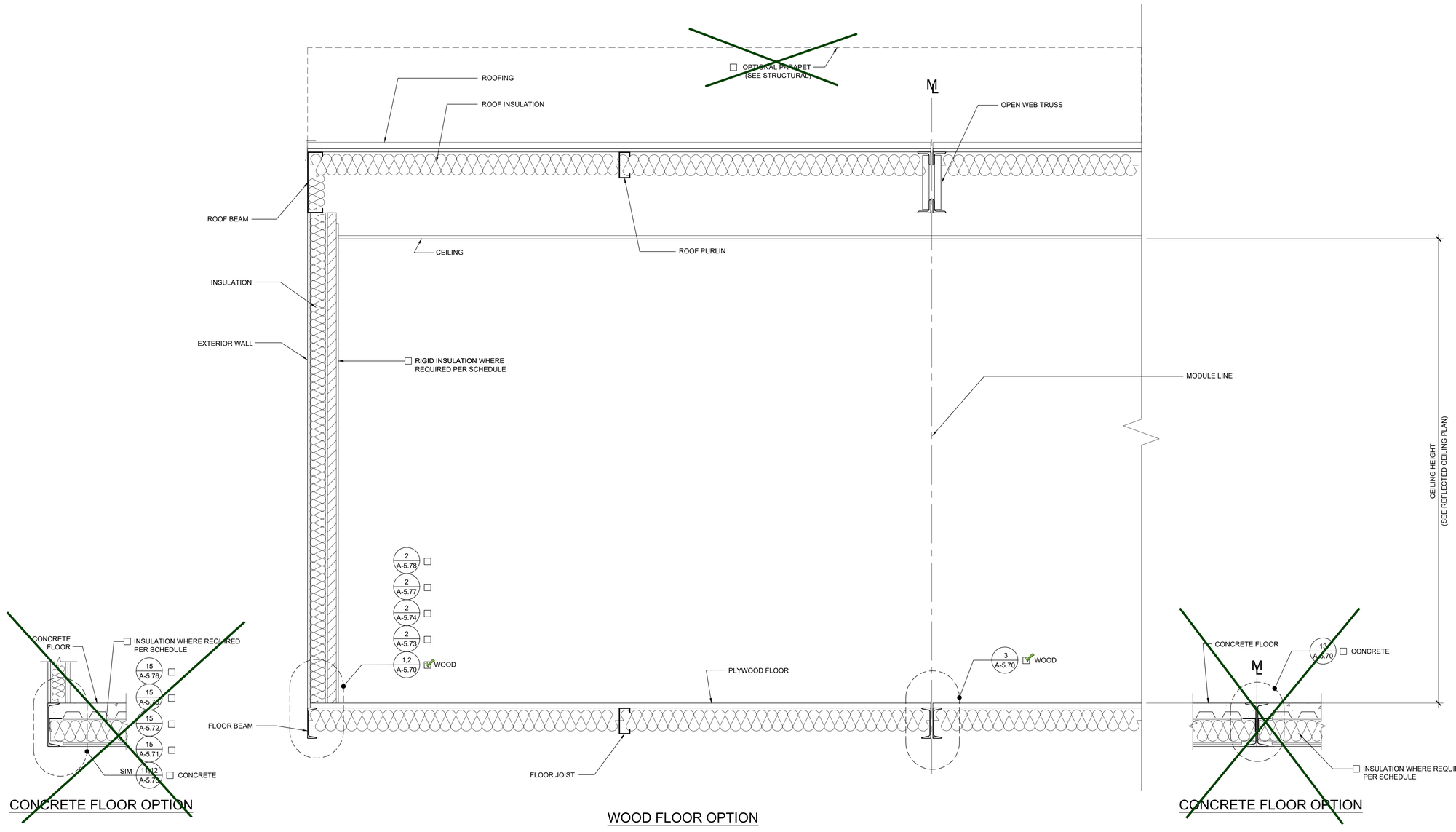

CONCRETE FLOOR OPTION

WOOD FLOOR OPTION

CONCRETE FLOOR OPTION

BUILDING SECTION

SCALE: 1" = 1' - 0" | 1

IDENTIFICATION STAMP
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APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

CROSS SECTION

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

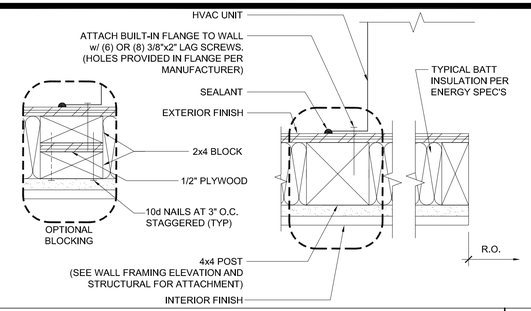
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

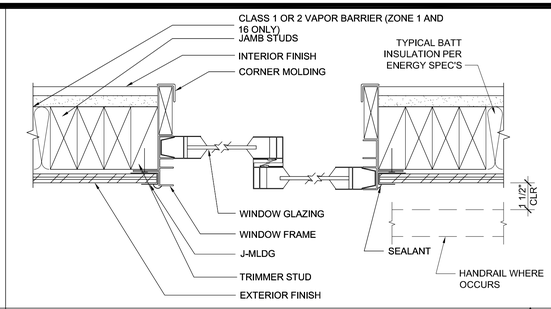
P.C. SHEET NUMBER

A-5.05



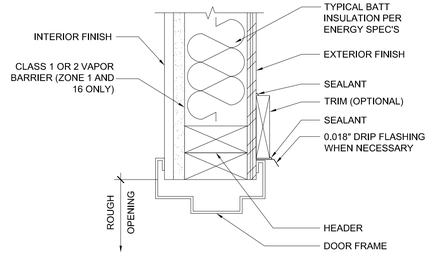
HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



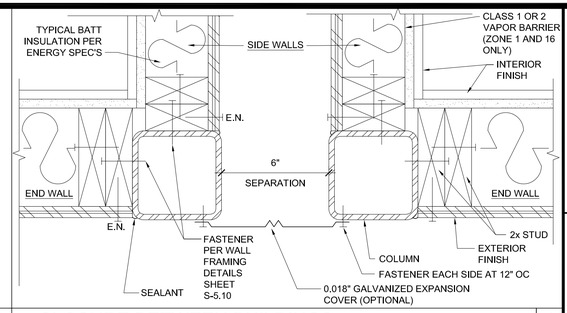
WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11



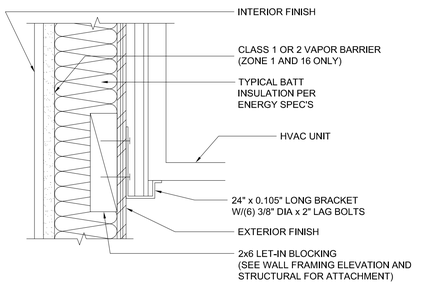
EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



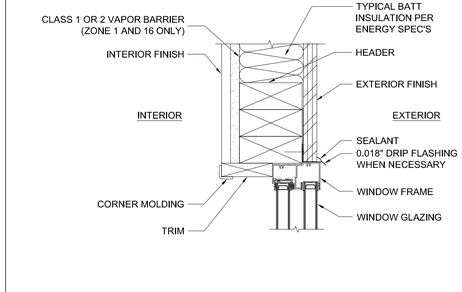
CLOSURE BETWEEN BUILDINGS

SCALE : 3"=1'-0" | 1



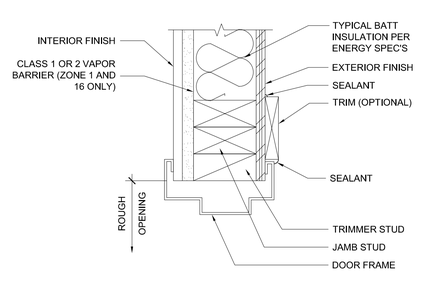
HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



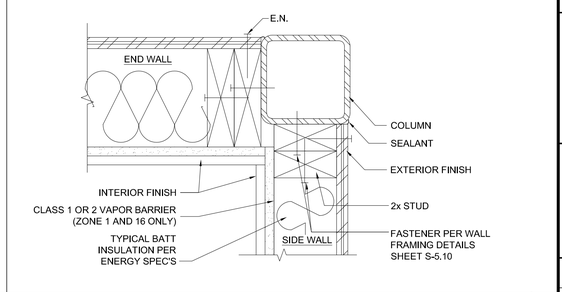
WINDOW HEADER

SCALE : 3"=1'-0" | 12



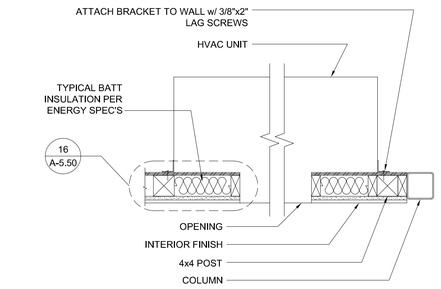
EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7



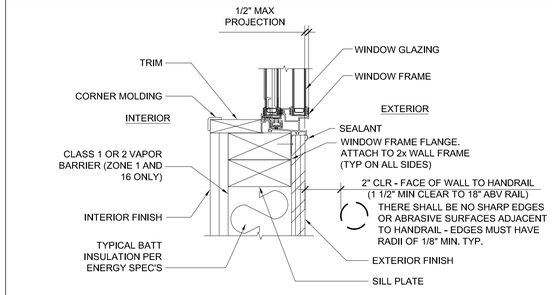
COLUMN AT CORNER

SCALE : 3"=1'-0" | 2



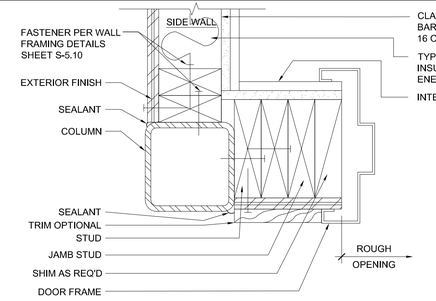
HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18



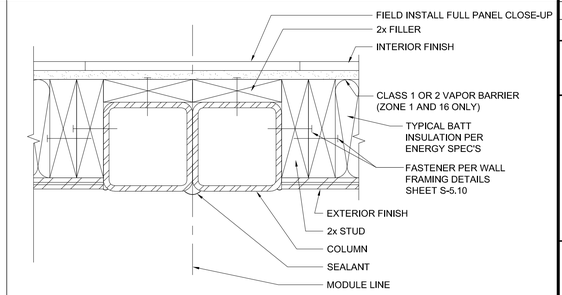
WINDOW SILL

SCALE : 3"=1'-0" | 13



COLUMN AT CORNER

SCALE : 3"=1'-0" | 8

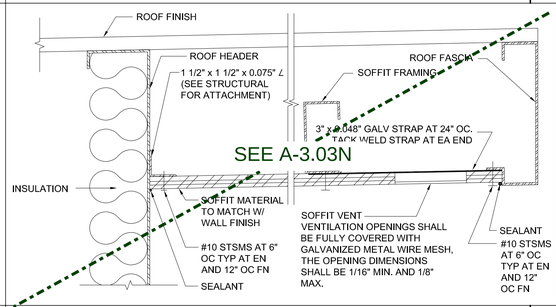


COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP)

SCALE : 3"=1'-0" | 3

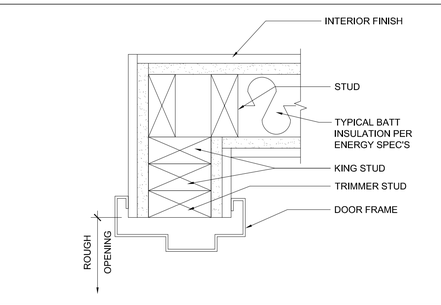
NOT USED

19



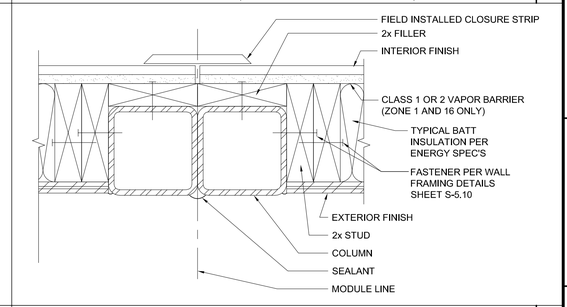
SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14



INTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 9



COLUMN AT MODULE LINE (CLOSURE STRIP)

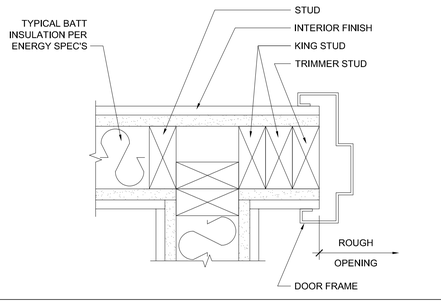
SCALE : 3"=1'-0" | 4

NOT USED

20

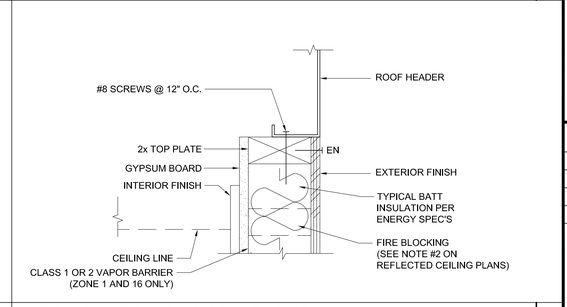
NOT USED

15



INTERIOR DOOR JAMBS

SCALE : 3"=1'-0" | 10



TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5

IDENTIFICATION STAMP
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APP: 04-125701 INC:
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PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

ARCHITECTURAL DETAILS
WOOD STUD - SHTG

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

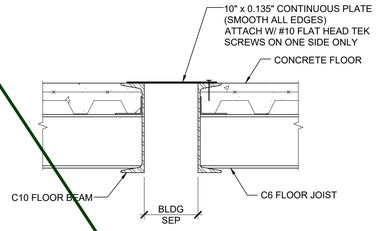
REGISTERED PROFESSIONAL ENGINEER JOHN W STARUN 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

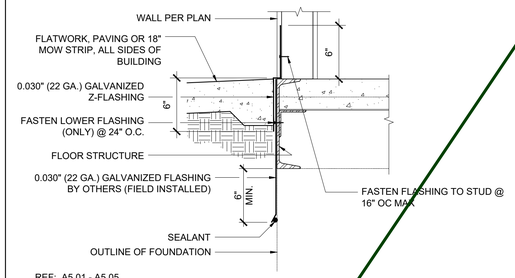
P.C. SHEET NUMBER

A-5.50



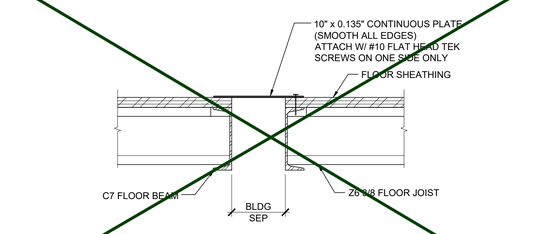
REF: A1.03

FLOOR AT SEPARATION (CONCRETE FLR) SCALE : 1 1/2"=1'-0" | 16



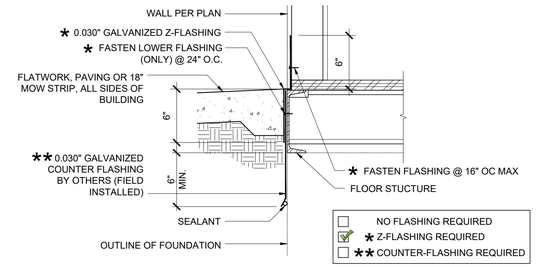
REF: A5.01 - A5.05

SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" | 11



REF: A1.03

FLOOR AT SEPARATION (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 6



REF: A5.01 - A5.05

SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 1

IDENTIFICATION STAMP	
DIV. OF THE STATE ARCHITECT	
APP:	04-125701 INC:
REVIEWED FOR	
SS ☑	FLS ☑ ACS ☑
DATE:	10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

ARCHITECTURAL DETAILS
FLOOR

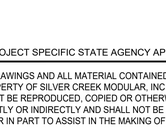
REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP	
DIV. OF THE STATE ARCHITECT	
APP:	04-121999 INC:
REVIEWED FOR	
SS ☑	FLS ☑ ACS ☑
DATE:	08/31/2023

PC STATE AGENCY APPROVAL



Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

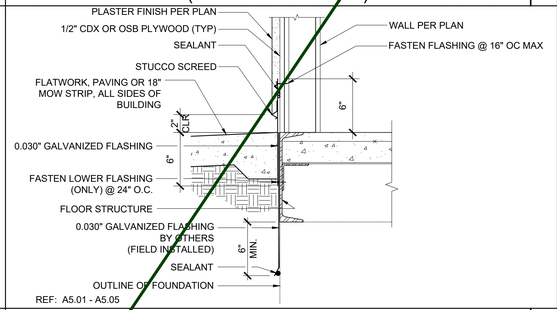
MODULAR BUILDING DESIGN PROFESSIONAL



SILVER CREEK INDUSTRIES	
24' x 40' PC	
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

A-5.70



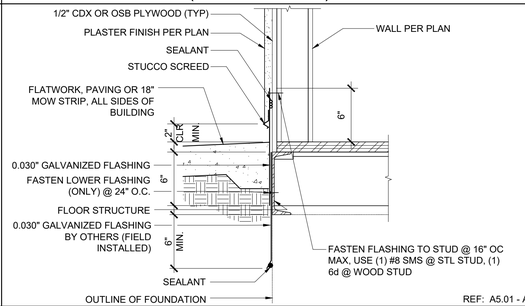
REF: A5.01 - A5.05

SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" | 12

NOTE:

1. WHEN THE BUILDING IS INSTALLED AT GROUND LEVEL (BELOW GRADE FOUNDATION OPTION) DETAILS 1,2,5,11,12+15 CAN ONLY BE USED WHERE THE BUILDING SIZE DOES NOT EXCEED 2,160 SF. SEE SHEETS A-5.71 THRU A-5.78 FOR ALTERNATE FLASHING DETAILS FOR BUILDINGS LARGER THAN 2,160 SF.
2. THE DETAILS ON SHEETS A-5.71 THRU A-5.78 MAY BE USED FOR BUILDINGS LESS THAN 2,160 SF.
3. FOR BUILDINGS INSTALLED ON ABOVE GRADE FOUNDATION SYSTEMS (WOOD FOUNDATION OR CONCRETE FOUNDATION WITH ABOVE GRADE STEMWALL) THE DETAILS SHOWN ON THIS SHEET MAY BE USED FOR ANY SIZE BUILDING.
4. FOR BUILDINGS INSTALLED ON ABOVE GRADE FOUNDATION SYSTEMS (WOOD FOUNDATION OR CONCRETE FOUNDATION WITH ABOVE GRADE STEMWALL) THE FLATWORK/PAVING/MOW STRIP WHICH IS INDICATED IN THE DETAILS ON THIS SHEET SHALL BE OMITTED.

7



REF: A5.01 - A5.05

SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 2

17

REF: A1.01 - A1.03

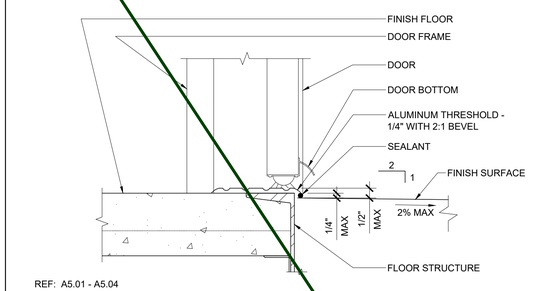
FLOOR AT MODLINE (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" | 13

8

REF: A1.01 - A1.03

FLOOR AT MODLINE (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 3

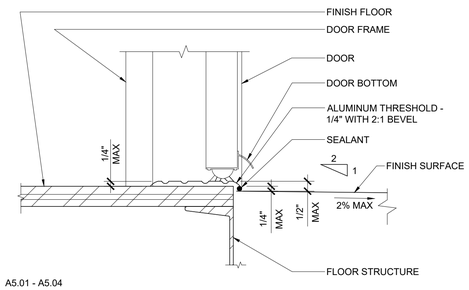
18



REF: A5.01 - A5.04

THRESHOLD SCALE : 3"=1'-0" | 14

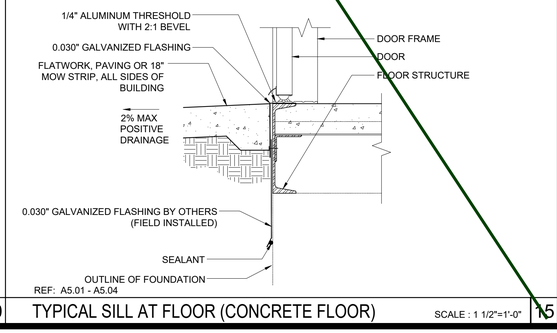
9



REF: A5.01 - A5.04

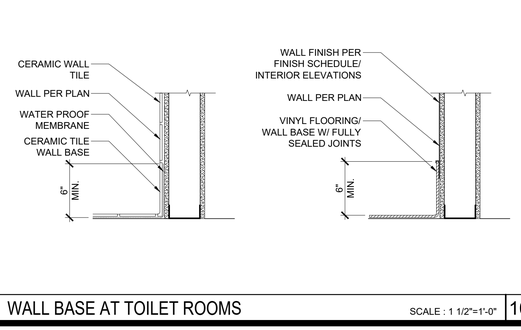
THRESHOLD SCALE : 3"=1'-0" | 4

19

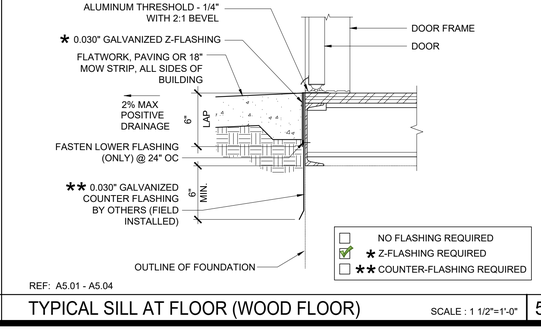


REF: A5.01 - A5.04

TYPICAL SILL AT FLOOR (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" | 15



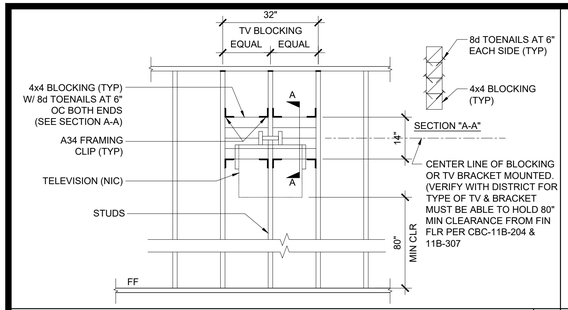
WALL BASE AT TOILET ROOMS SCALE : 1 1/2"=1'-0" | 10



REF: A5.01 - A5.04

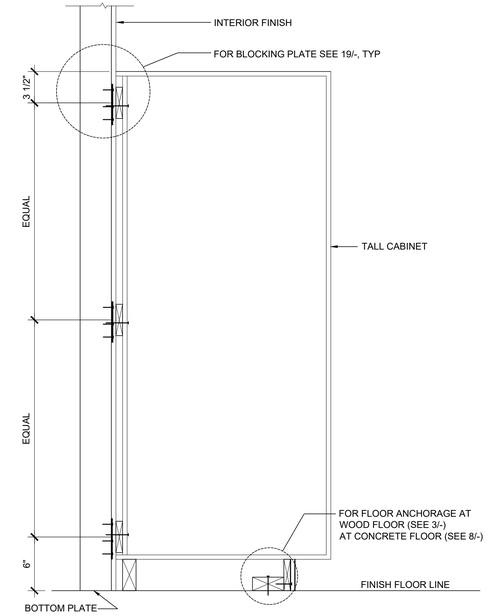
TYPICAL SILL AT FLOOR (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 5

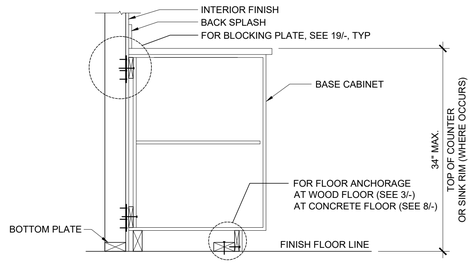
20



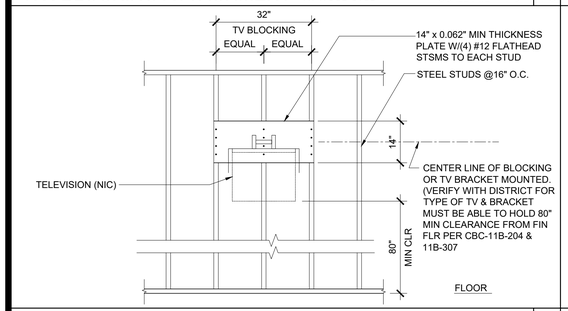
T.V. BLOCKING ATTACHMENT AT WOOD STUD SCALE : 1/2" = 1'-0" 16

NOT USED 11

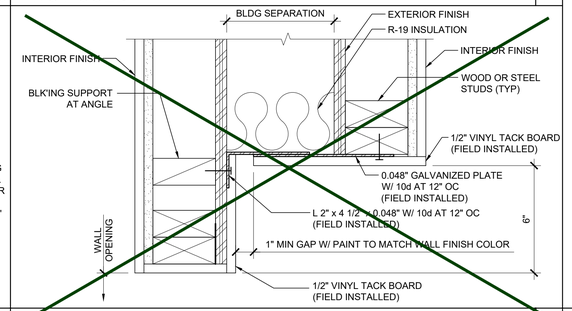




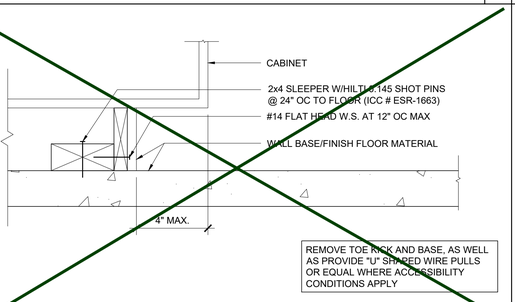
BASE CABINET WALL ANCHORAGE SCALE : 1" = 1'-0" 1



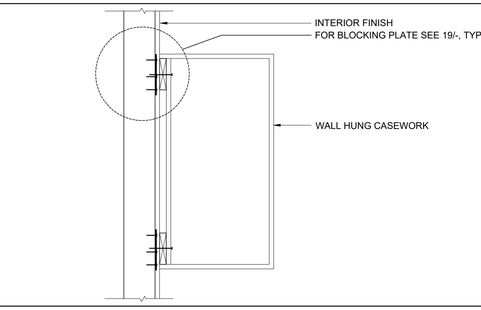
T.V. BLOCKING ATTACHMENT AT STEEL STUD SCALE : 1/2" = 1'-0" 17



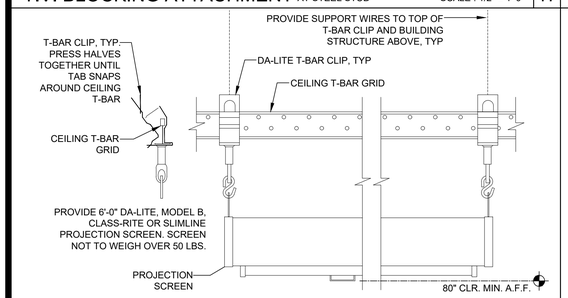
WALL OPENING AT HEADER AND JAMB SCALE : 3"=1'-0" 12



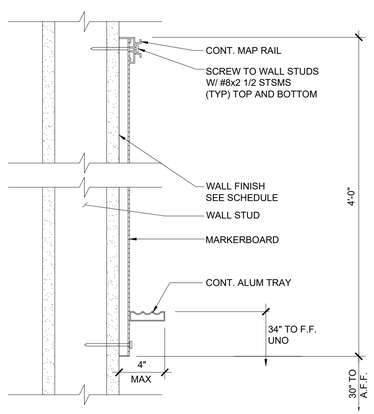
TALL CABINET WALL ANCHORAGE SCALE : 1 1/2" = 1'-0" 7



WALL HUNG ANCHORAGE CABINET SCALE : 1 1/2" = 1'-0" 2

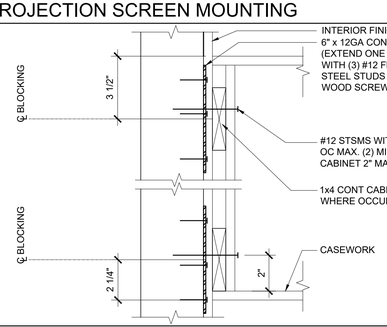


PROJECTION SCREEN MOUNTING SCALE : NTS 18

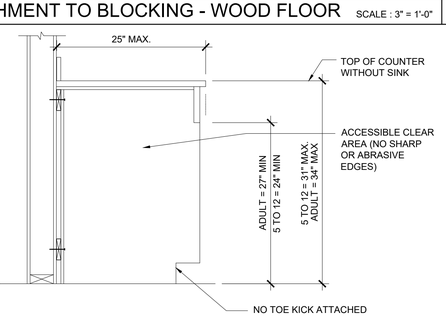


MARKER BOARD ATTACHMENT SCALE : 3" = 1'-0" 14

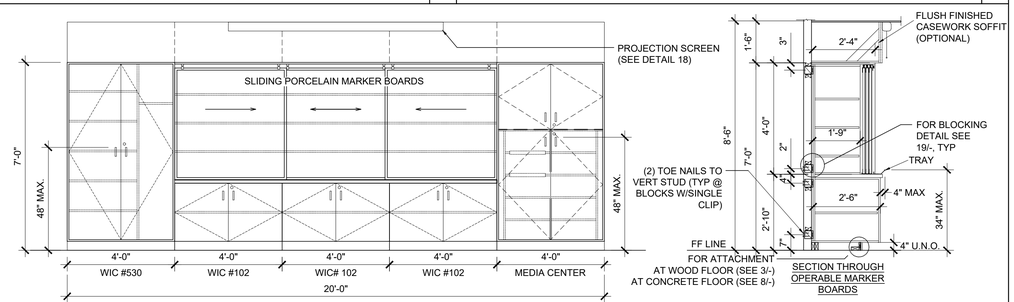
ATTACHMENT TO BLOCKING - WOOD FLOOR SCALE : 3" = 1'-0" 3



ATTACHMENT TO BLOCKING PLATE SCALE : 3" = 1'-0" 19



ACCESSIBLE COUNTER SCALE : 1" = 1'-0" 4



TEACHING WALL - ELEVATION / SECTION - OPTION SCALE : 3/8" = 1'-0" 15

NOT USED 10

NOT USED 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

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PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

ARCHITECTURAL DETAILS

MISCELLANEOUS/OPTIONS

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

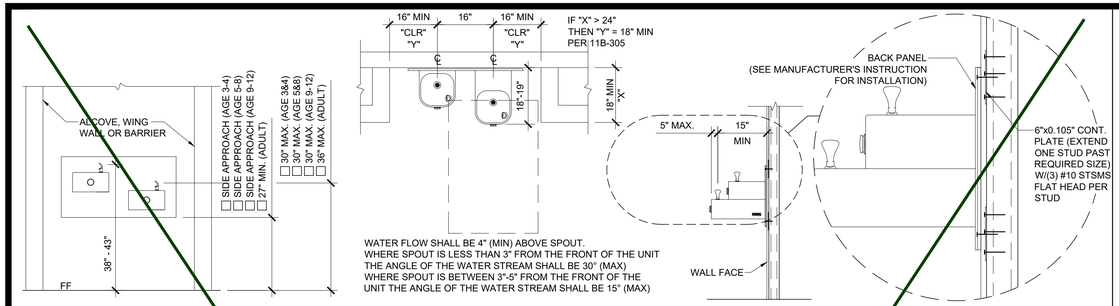
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

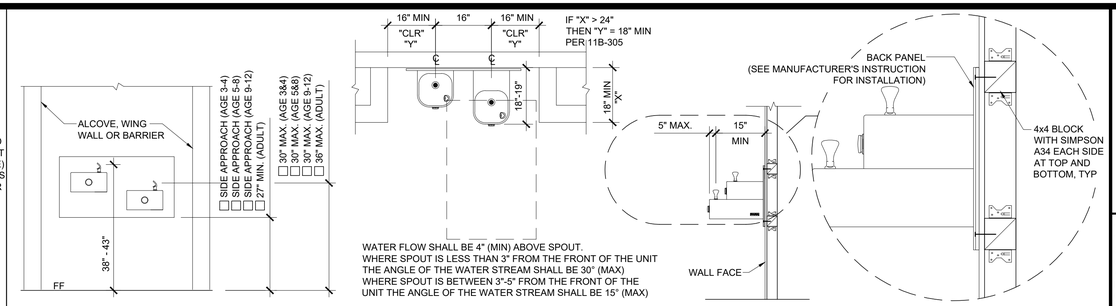
P.C. SHEET NUMBER

A-5.80



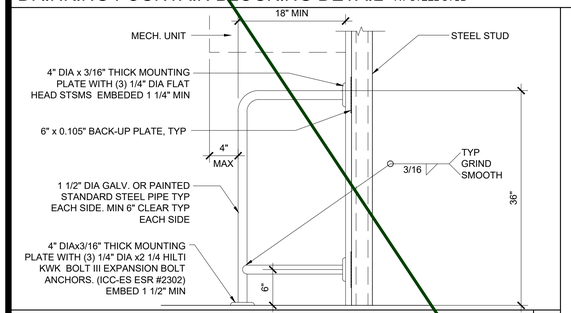
DRINKING FOUNTAIN BLOCKING DETAIL AT STEEL STUD

SCALE : 1/2" = 1'-0" | 11



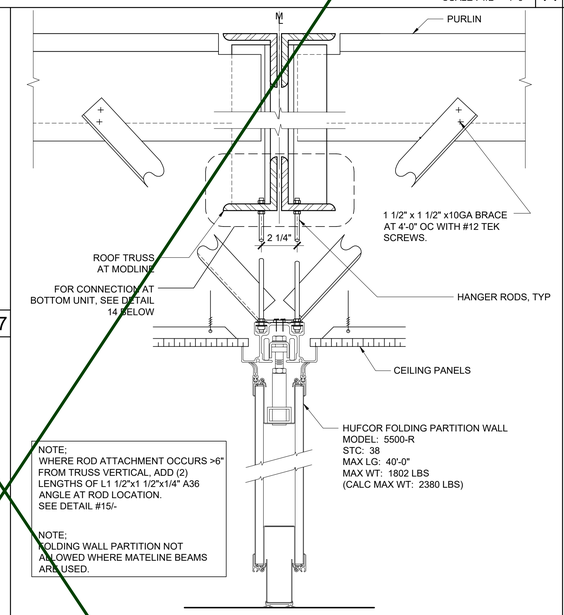
DRINKING FOUNTAIN BLOCKING DETAIL AT WOOD STUD

SCALE : 1/2" = 1'-0" | 1



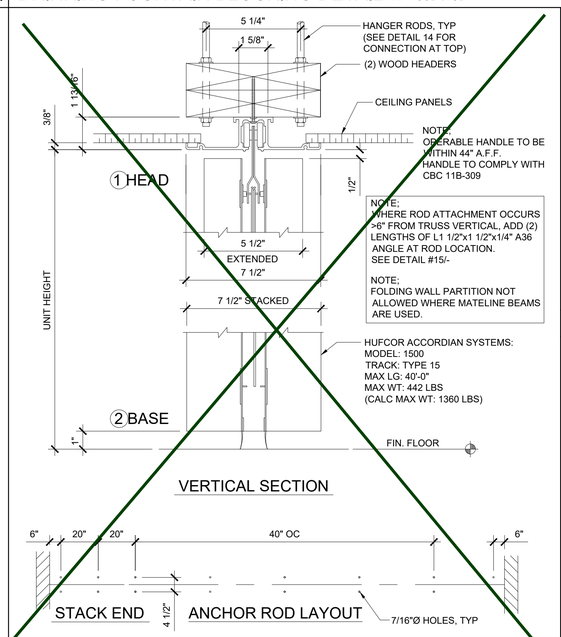
HVAC BARRIER - OPT. D.F. BARRIER AT STEEL STUD

SCALE : 1" = 1'-0" | 17



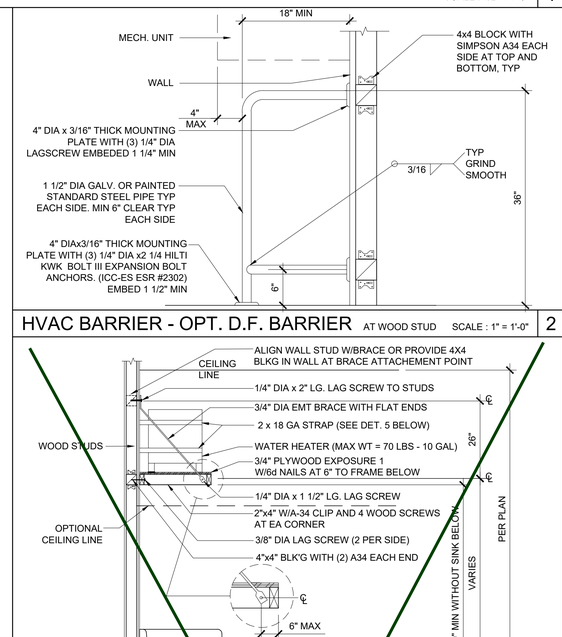
FOLDING WALL PARTITION ATTACH @ TOP UNIT

SCALE : 3" = 1'-0" | 13



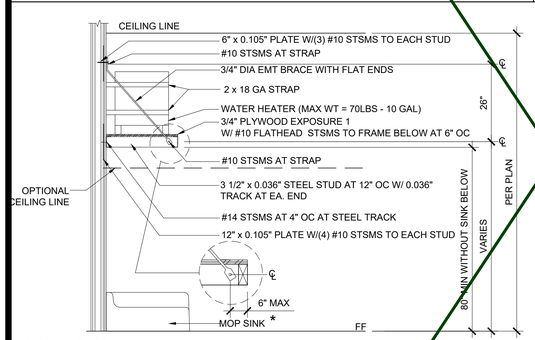
ACCORDION PARTITION ATTACHMENT

SCALE: 3" = 1'-0" | 8



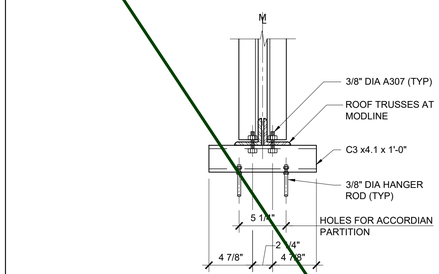
HVAC BARRIER - OPT. D.F. BARRIER AT WOOD STUD

SCALE : 1" = 1'-0" | 2



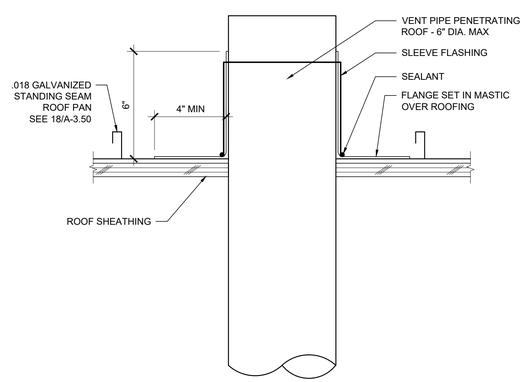
WATER HEATER SHELF AT STEEL STUD

SCALE : 1/2" = 1'-0" | 19



ACCORDIAN DOOR - TOP CONN AT TRUSS

SCALE : 1 1/2" = 1'-0" | 14

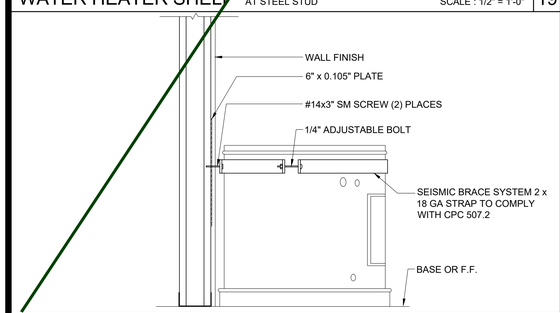


PIPE PENETRATION THROUGH ROOF

SCALE : 3"=1'-0" | 10

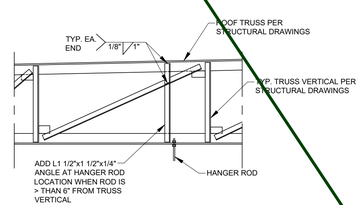
WATER HEATER SHELF AT WOOD STUD

SCALE : 1/2" = 1'-0" | 4



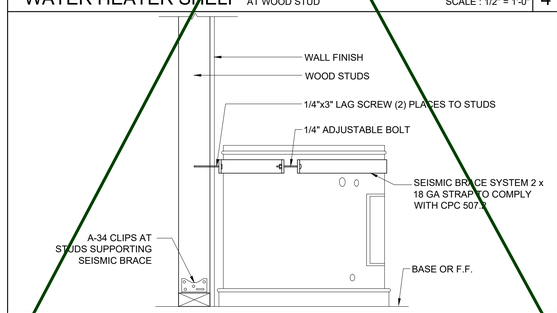
WATER HEATER BRACING AT STEEL STUD

SCALE : 1 1/2" = 1'-0" | 20



TRUSS SUPPORT @ HANGER ROD

15



WATER HEATER BRACING AT WOOD STUD

SCALE : 1 1/2" = 1'-0" | 5

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SHEET TITLE:

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
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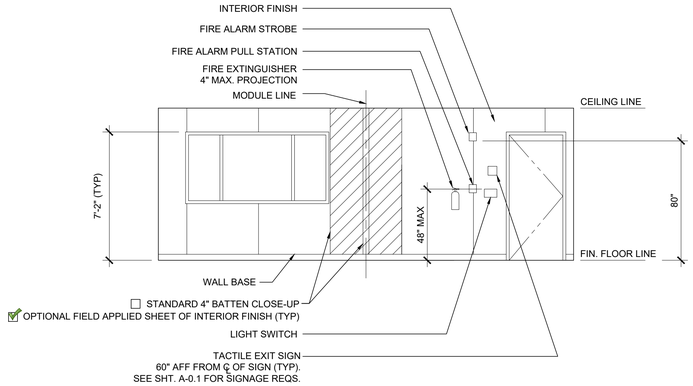
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24875 STRUCTURAL STATE OF CALIFORNIA

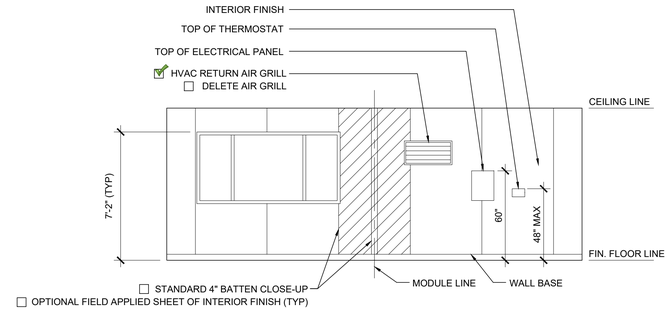
SILVER CREEK INDUSTRIES	24' x 40' PC
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

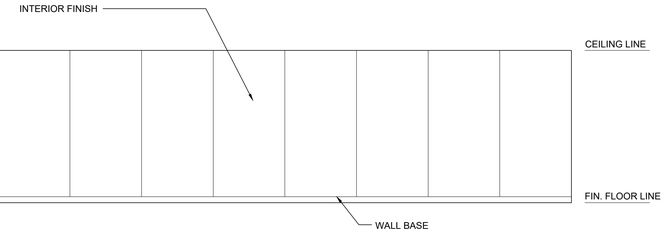
A-5.81



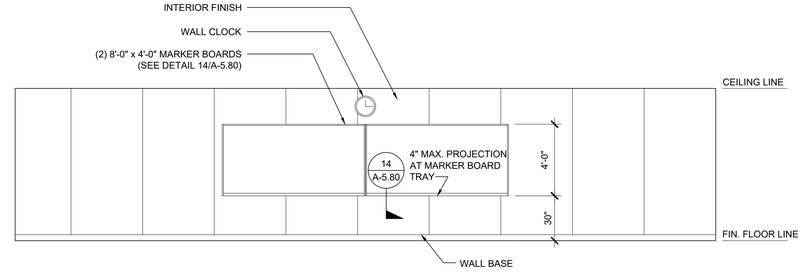
FRONT ELEVATION — SCALE: 1/4" = 1'-0" — 3



REAR ELEVATION — SCALE: 1/4" = 1'-0" — 1



SIDE ELEVATION — SCALE: 1/4" = 1'-0" — 4



SIDE ELEVATION — SCALE: 1/4" = 1'-0" — 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

INTERIOR ELEVATION
24' x 40'

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

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APP: 04-121999 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023~~

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

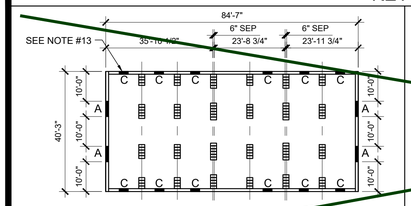
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

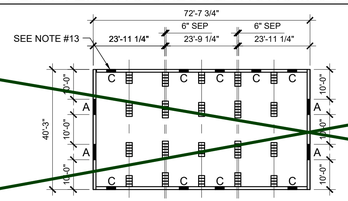
P.C. SHEET NUMBER

A-6.01

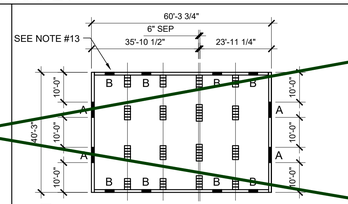
KEY PLAN VENTING CALCULATIONS w/o PARAPET



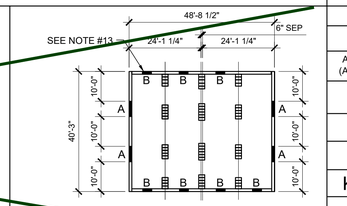
☐ 85' x 40' BUILDING: 3400 SF / 150 = 22.66 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(12) - "C" VENT = 13.50 SF
23.74 SF TOTAL VENTILATION (> 22.66 SF)



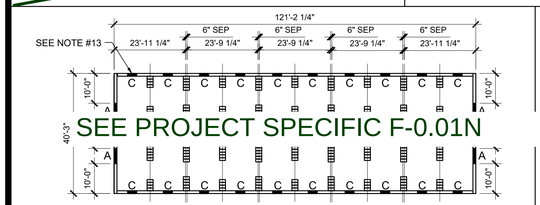
☐ 73'-0" x 40' BUILDING: 2920 SF / 150 = 19.46 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(9) - "C" VENT = 10.12 SF
20.36 SF TOTAL VENTILATION (> 19.46 SF)



☐ 60'-6" x 40' BUILDING: 2420 SF / 150 = 16.14 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(8) - "B" VENT = 6.00 SF
16.24 SF TOTAL VENTILATION (> 16.14 SF)

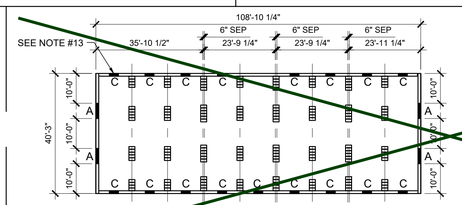


☐ 48'-6" x 40' BUILDING: 1940 SF / 150 = 12.93 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(7) - "B" VENT = 5.25 SF
15.49 SF TOTAL VENTILATION (> 12.93 SF)

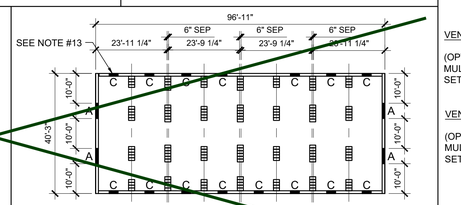


SEE PROJECT SPECIFIC F-0.01N

☐ 122'-0" x 40' BUILDING: 4880 SF / 150 = 32.53 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(20) - "C" VENT = 22.50 SF
32.74 SF TOTAL VENTILATION (> 32.53 SF)
(VAPOR BARRIER REQUIRED)



☐ 109'-0" x 40' BUILDING: 4380 SF / 150 = 29.2 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(17) - "C" VENT = 19.12 SF
29.36 SF TOTAL VENTILATION (> 29.2 SF)



☐ 97'-6" x 40' BUILDING: 3900 SF / 150 = 26 SF VENT REQ'D
(4) - "A" VENT = 10.24 SF
(15) - "C" VENT = 16.87 SF
27.11 SF TOTAL VENTILATION (> 26 SF)

WOOD FOUNDATION PLATE SCHEDULE

50 PSF

PLATES	END WALL	SIDE WALL	MODLINE PAD AT END WALL	MODLINE PAD AT INTERIOR	SEPARATION PAD AT ENDWALL		SEPARATION PAD AT INTERIOR	
					☐ SEPARATE	☐ CONTINUOUS	☐ SEPARATE	☐ CONTINUOUS
ADDITIONAL (AS NEEDED)	2x4	2x4	2x6	2x6	(2) ROWS OF 2x4	2x12	(2) ROWS OF 2x4	2x12
TOP	2x6	2x6	2x8	2x8	(2) ROWS OF 2x6	2x12	(2) ROWS OF 2x6	2x12
BLOCK	2x8	2x8	2x10	2x10	(2) ROWS OF 2x8	2x12	(2) ROWS OF 2x8	2x12
SILL	2x12 (2x14)[15]	2x12 (2x14)[15]	(5) 2x12 x 2'-0"	(5) 2x12 x 2'-0"	(2) ROWS OF 2x14	(8) 2x12 x 2'-0"	(2) ROWS OF 2x14	(7) 2x12 x 2'-0"

KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL): 5'-1 1/2" x 6" = 2.56 S.F. VENTILATION

"VENT OPENING BELOW CONT UPPER PLATE"

VENT "B" (ENDWALL): 3'-0" x 3" = 0.75 S.F. VENTILATION

(OPTIONAL AT MULTIPLE BLDG SETS)

"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATE"

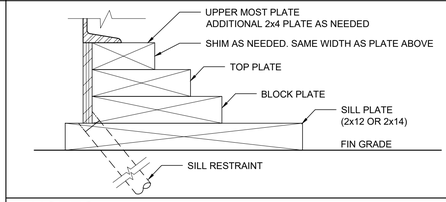
VENT "C" (ENDWALL): 3'-0" x 4.5" = 1.125 S.F. VENTILATION

(OPTIONAL AT MULTIPLE BLDG SETS)

"VENT OPENING ABOVE CONT. SILL AND BLOCK PLATE"

NOTE:
@ BUILDINGS WITH PARAPETS UP TO 48" HIGH, SIDE WALL VENTS CHANGE FROM 5'-1 1/2" TO 4'-0", SEE VENTING SCHEDULE

FOUNDATION PLATE DESCRIPTION



NOTES

1. BUILDINGS OVER 2,160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153.
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/F0.50.
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE.
11. FOR FOUNDATION SPLICE - SEE 5/F-0.50.
12. CRAWLSPACE VAPOR RETARDERS (WHERE INDICATED):
THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
MATERIALS:
GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
INSTALLATION RECOMMENDATIONS:
OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/F0.50; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE.
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION.
15. IF PARAPET IS HIGHER THAN 18", COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING.
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OR PARAPET OPTION.
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
B. VENTS ARE A MAXIMUM OF 6'-0" LONG x 3" MIN. HIGH.
C. VENTS ARE SPACED A MINIMUM OF 8'-0" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.
18. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

NAILING SCHEDULE

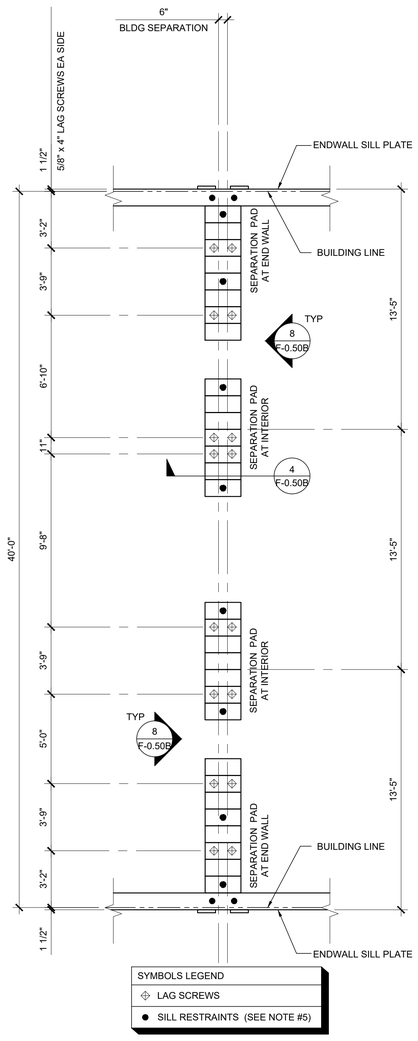
BUILDING SIZE	(2) 16d BOX NAILS PLATE TO PLATE ATTACHMENT BELOW UPPER MOST PLATE
24' x 40'	5" OC AT ENDWALL - 1 / F-0.50B 12" OC AT SIDEWALL - 2 / F-0.50B 10" OC AT SEPARATION - 4 / F-0.50B

VENTING SCHEDULE

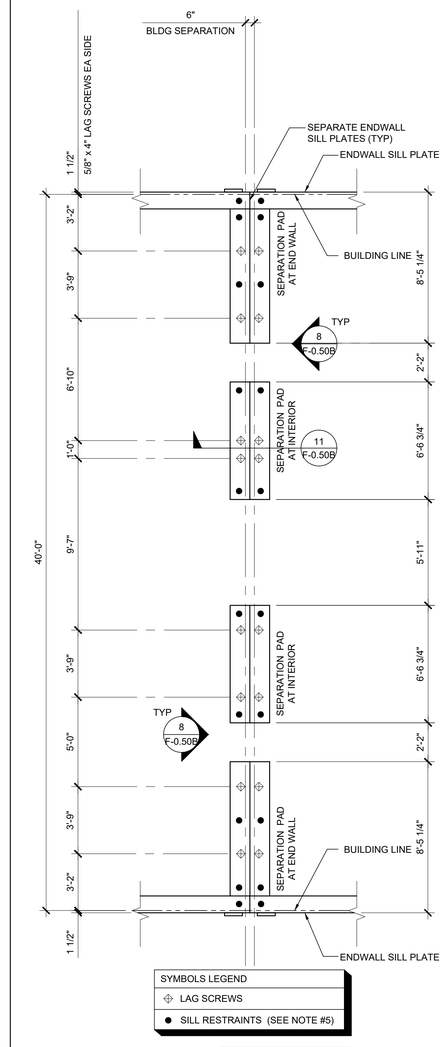
	BUILDING SIZE	BUILDING AREA	REQUIRED VENTING	SIDE VENTING	TOTAL VENTING SUPPLIED
W/O PARAPET	24' x 40'	960 SF	6.4 SF (1/150)	5.125' x 6" = (4) 2.56 SF/EA	10.25 SF SEE NOTE #8
W/ PARAPET	24' x 40'	960 SF	6.4 SF (1/150)	4'-0" x 6" = (4) 2 SF/EA	8 SF SEE NOTE #8

TIE PLATE SCHEDULE (14 / F-0.50B)

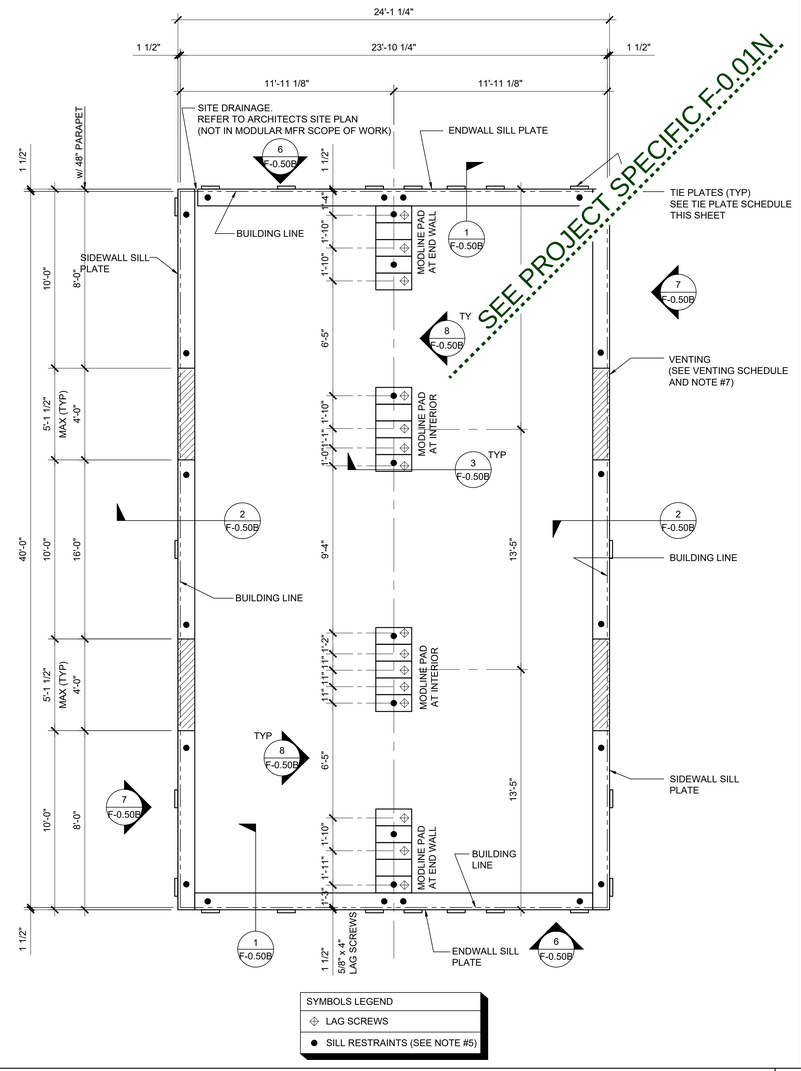
BUILDING SIZE	SIDE WALL TIE PLATES	END WALL TIE PLATES	TOTAL NUMBER OF TIE PLATES
24' x 40'	4	7	22



FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" 3



FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" 2



FOUNDATION PLAN SCALE: 1/4" = 1' - 0" 1

IDENTIFICATION STAMP
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PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

WOOD FOUNDATION PLAN
24x40
(50 PSF)

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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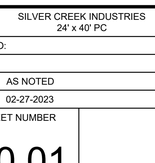
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

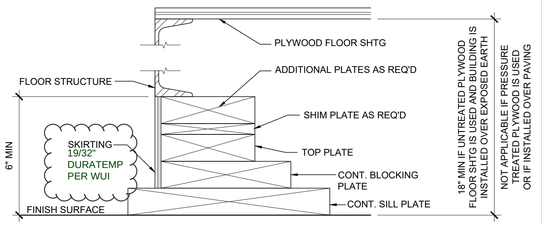


SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

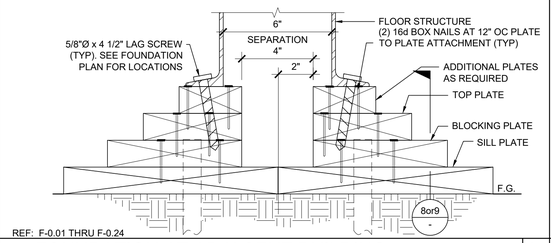
P.C. SHEET NUMBER

F-0.01



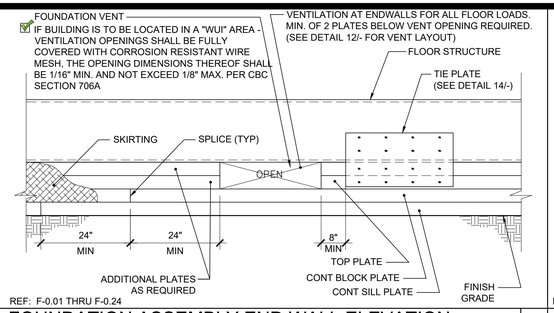
NOTE:
SEE SCHEDULE ON SHEET S-1.01 TO DETERMINE IF PRESSURE TREATED PLYWOOD FLOOR SHTG IS BEING PROVIDED

CLEARANCE TO PLYWOOD SHTG
SCALE : 3"=1'-0" | 16



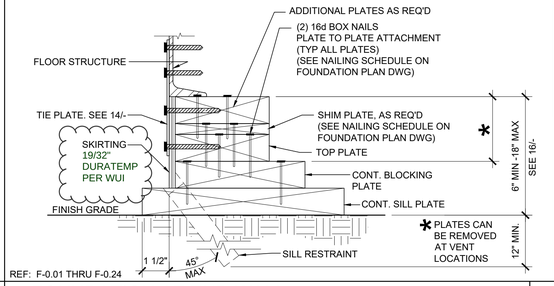
REF: F-0.01 THRU F-0.24

FOUNDATION AT ADJACENT BUILDING
SCALE : 3"=1'-0" | 11



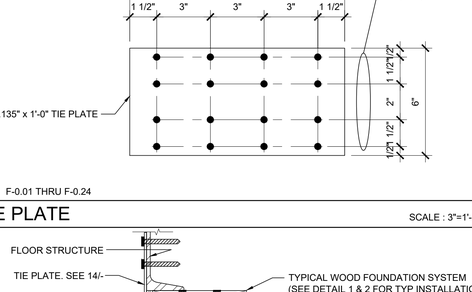
REF: F-0.01 THRU F-0.24

FOUNDATION ASSEMBLY END WALL ELEVATION
SCALE : 1 1/2"=1'-0" | 6

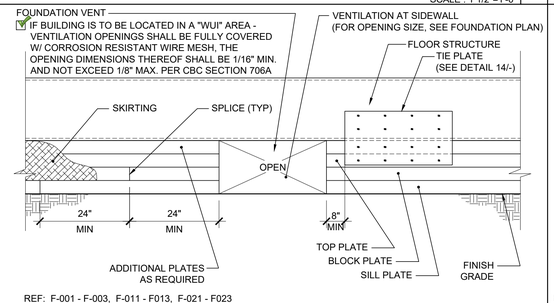


REF: F-0.01 THRU F-0.24

FOUNDATION AT END WALL
SCALE : 3"=1'-0" | 1

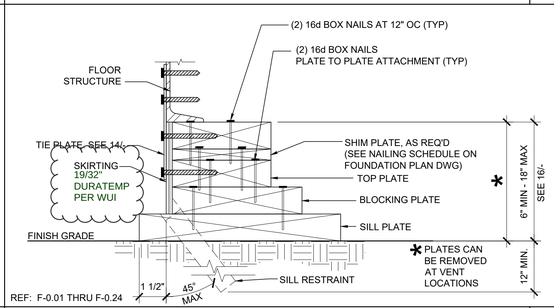


END WALL VENT
SCALE : 1 1/2"=1'-0" | 12



REF: F-001 - F-003, F-011 - F013, F-021 - F023

FOUNDATION ASSEMBLY SIDEWALL ELEVATION
SCALE : 1 1/2"=1'-0" | 7



REF: F-0.01 THRU F-0.24

FOUNDATION AT SIDE WALL
SCALE : 3"=1'-0" | 2

17	

REF: F-0.01 THRU F-0.24

TIE PLATE
SCALE : 3"=1'-0" | 14

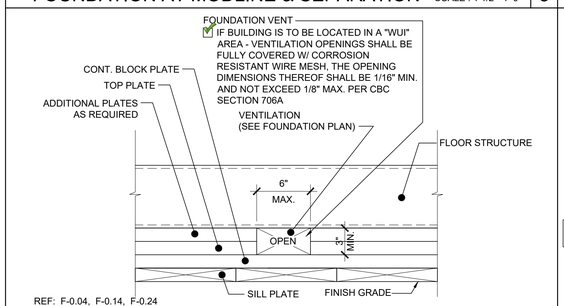
REF: F-001 - F-003, F-011 - F013, F-021 - F023

FOUNDATION AT MODLINE & SEPARATION
SCALE : 1 1/2"=1'-0" | 8

REF: F-0.01 THRU F-0.24

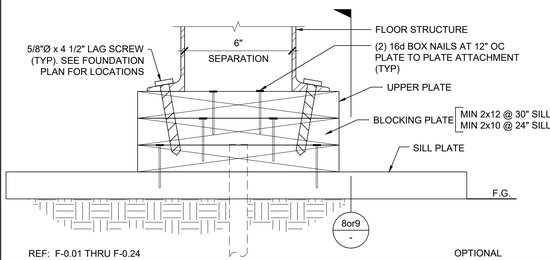
FOUNDATION AT MODLINE
SCALE : 3"=1'-0" | 3

18	



REF: F-0.04, F-0.14, F-0.24

VENT ELEV. AT MODLINE & SEP FOR 150 PSF
SCALE : 3"=1'-0" | 9



REF: F-0.01 THRU F-0.24 OPTIONAL

FOUNDATION AT ADJACENT BUILDING
SCALE : 3"=1'-0" | 4

19	

REF: F-0.01 THRU F-0.24 OPTIONAL

FOUNDATION ANCHORAGE AT CONCRETE PAD
SCALE : 3"=1'-0" | 15

REF: F-0.01 THRU F-0.24 OPTIONAL

CRAWLSPACE VAPOR RETARDER
SCALE : 3"=1'-0" | 10

REF: F-0.01 THRU F-0.24

FOUNDATION SPLICE
SCALE : NTS | 5

20	

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DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

FOUNDATION DETAILS
WOOD

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

~~IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023~~

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES	24' x 40' PC
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

F-0.50

STRUCTURAL SPECIFICATIONS

FOUNDATIONS:

GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 1803A.3 THROUGH 1803A.8. EXCEPTIONS, 1) GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY, WOOD-FRAME AND LIGHT-STEEL-FRAME BUILDINGS OF TYPE II OR TYPE V CONSTRUCTION AND 4,000 SQUARE FEET OR LESS IN FLOOR AREA, NOT LOCATED WITHIN EARTHQUAKE FAULT ZONES OR SEISMIC HAZARD ZONES AS SHOWN IN THE MOST RECENTLY PUBLISHED MAPS FROM THE CALIFORNIA GEOLOGICAL SURVEY (CGS) OR IN SEISMIC HAZARD ZONES AS DEFINED IN THE SAFETY ELEMENT OF THE LOCAL GENERAL PLAN, 2) A PREVIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITTED, PROVIDED THAT A REEVALUATION IS MADE AND THE REPORT IS FOUND TO BE CURRENTLY APPROPRIATE. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2 PER CBC SECTION 1803A.2

CONCRETE

PROVIDE NECESSARY SHIMS ON FOOTINGS NOT LEVEL WITHIN THE 1/2" ALLOWABLE TOLERANCE. THE DISTRICT SHALL PROVIDE CLEAR AND UNOBSTRUCTED ACCESS TO THE SITE. THE DISTRICT IS RESPONSIBLE FOR ALL SURVEYING, STAKING THE BUILDING CORNERS, SETTING THE FINISH FLOOR ELEVATION, RIGGING, CRANING, EXCAVATION, SPOIL REMOVAL, AND BACKFILL.

THE FOUNDATION AND THE METHOD OF FASTENING THE UNITS SHALL BE AS SHOWN ON DRAWINGS WHERE APPLICABLE. HIGH STRENGTH GROUT SHALL BE EMBECO 885 NON-SHRINK, METALLIC AGGREGATE GROUT OR A DSA APPROVED EQUAL.

THE DESIGN OF CONRETE FOUNDATIONS WILL BE AS FOLLOWS:

1. FURNISH AND INSTALL ALL CONCRETE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
2. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN AND / OR THE DETAILS ON THE DRAWINGS, ALL WORK INCLUDED IN THIS SECTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CODES AND STANDARDS.
   a) ALL WORK AND MATERIALS SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND CHAPTER 19A.
   b) AMERICAN CONCRETE INSTITUTE (ACI): BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-19
   c) SOCIETY FOR TESTING AND MATERIALS (ASTM): THE SPECIFICATIONS AND STANDARDS HEREINAFTER REFERENCED TO SHALL BE OF THE LATEST EDITION.
3. CONCRETE FOUNDATION TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT AND OR INSPECTOR.
4. DESIGN MIXES SHALL BE AS FOLLOWS:

   ☐ WHERE A GEOTECHNICAL REPORT IS NOT PROVIDED:
   MINIMUM COMPRESSIVE STRENGTH = 5,000 PSI
   MAXIMUM WATER/CEMENT RATIO = 0.40
   CEMENT TYPE = V COMPLYING WITH ACI 319-19, TABLE 19.3.2.1, FOOTNOTE 8
   NORMAL WEIGHT
   NO ADMIXTURES CONTAINING CALCIUM CHLORIDE

   ☐ WHERE A GEOTECHNICAL REPORT IS PROVIDED WHICH INDICATES ONE OF THE FOLLOWING EXPOSURE CLASSIFICATIONS (F0, F1, S0, S1, W0, W1, C0, C1)
   MINIMUM COMPRESSIVE STRENGTH = 4,000 PSI
   MAXIMUM WATER/CEMENT RATIO = 0.50
   CEMENT TYPE = II/V
   NORMAL WEIGHT

   NOTE: WHERE CONCRETE IS EXPOSED TO THAW AND FREEZE CYCLES IT SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.1.

5. FORMS SHALL BE SUBSTANTIAL, PLUMB, LEVEL, SQUARE, TRUE TO LINE, WATER TIGHT AND ACCURATE TO THE DIMENSIONS REQUIRED.
6. THE ARCHITECT SHALL APPROVE LOCATION OF:
   a) OPENINGS FOR MECHANICAL AND ELECTRICAL: PROVIDE FOR OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED AND INSTALL SLEEVES AS MAY BE REQUIRED.
   b) OPENINGS FOR VENT WELLS FOR UNDER FLOOR VENTILATION: PROVIDE FOR ALL OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED. INSTALL ALL SLEEVES AS MAY BE REQUIRED.
7. VARIANCE IN TOP OF STEMWALL AND/OR ANCHOR PLATE SURFACE SHALL BE NO MORE THAN 1/16" IN 10 FEET
8. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED "WET SETTING" IS NOT ALLOWED.
9. REFER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL PLANS FOR SLEEVES, INSERTS CURBS, DEPRESSED AREAS, AND ETC.
10. CONCRETE MIX REQUIRED: CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR FOOTINGS TO PROFESSIONAL OF RECORD FOR APPROVAL PRIOR TO POURING CONCRETE.

1705A.3.3. WAIVER OF BATCH PLAN INSPECTION.

A. WHEN BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCHING AT THE START OF DAY.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A TICKET.
3. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK , IT'S LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

REINFORCING STEEL:

1. MATERIAL: ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 MIN. GRADE 60. EXCEPT #3 ANCHOR REINFORCEMENT SHALL BE GRADE 40.
2. SPLICES: ALL SPLICES SHALL BE LAPPED A MINIMUM 48" #5 BARS AND 30" #4 BARS UNLESS OTHERWISE DETAILED. SPLICES SHALL BE STAGGERED A MINIMUM OF 24" FROM ADJACENT HORIZONTAL BARS.
3. REINFORCING FABRICATION AND PLACEMENT: FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE AND SPECIFICATIONS FOR PLACING REINFORCEMENT OF THE CONCRETE REINFORCING STEEL INSTITUTE".
4. MINIMUM COVERAGE: ALL REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERAGE WITH CONCRETE:

LOCATION	AMOUNT
FORMED EARTH	2"
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
WALL-EXPOSED FACE	
#5 OR SMALLER	2"
#6 OR LARGER	2"
WALL-UNEXPOSED FACE	3/4"

5. HOOKS SHALL BE STAGGERED IN ALTERNATING DIRECTIONS.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL OTHER THAN TUBE AND PIPE COLUMNS SHALL CONFORM TO ASTM A-36.
2. TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE B, OR A1085
3. PIPE COLUMNS SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B. OR A1085
4. TUBE STEEL USED FOR RAMPS & STAIRS SHALL CONFORM TO ASTM A513 GRADE MT1020 OR BETTER

STEEL FRAME BUILDING/STEEL FRAME CONSTRUCTION SHALL MEET THE MINIMUM DESIGN REQUIREMENTS OF STUD SPACING, ETC. PER LATEST EDITION OF 2022 CALIFORNIA BUILDING CODE. ALL WORK AND MATERIALS SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," AMERICAN INSTITUTE OF STEEL CONSTRUCTION: TITLE 24, CCR, AND UNIFORM BUILDING CODE. STRUCTURAL STEEL SHALL BE MADE EITHER THE OPEN-HEARTH OR ELECTRIC FURNACE PROCESS ONLY AND SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL STEEL" ASTM DESIGNATION A36, CURRENT EDITION.

ROOF FRAMING, FLOOR FRAMING, AND WALL FRAMING SHALL BE PER MANUFACTURER'S PC PLANS AND PER APPLICABLE CODES.

ALL STRUCTURAL MEMBERS BELOW THE SUB-FLOOR, IE, GIRDERS, JOISTS, HEADERS, BLOCKING, SHALL BE STEEL. MINIMUM JOIST SPACING SHALL BE PER PLAN.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC STANDARD SPECIFICATIONS, THE APPLICABLE REGULATORY AGENCY AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OR LIGHT GAUGE STEEL STRUCTURAL MEMBERS. WELDING: SHALL COMPLY WITH THE PERTINENT PROVISIONS OF THE APPLICABLE REGULATORY AGENCY. ALL WELDING SHALL BE DONE BY OPERATORS WHO ARE QUALIFIED AS PRESCRIBED IN THE "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED.

STEEL SHALL BE COATED WITH ONE SHOP COAT OF MANUFACTURER'S STANDARD CHASSIS PAINT OR EQUAL.

BOLTS:

ALL COMMON BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-307.

STRUCTURAL WELDING: SPECIAL INSPECTOR REQUIRED

GENERAL: DURING THE WELDING OF ANY MEMBER OR CONNECTION THAT IS DESIGNED TO RESIST LOADS AND FORCES REQUIRED BY THIS CODE.

ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AT MINUS 20 DEGREES F AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

ALL STRUCTURAL WELDING SHALL BE BY "ELECTRIC ARC PROCESS" PER AWS STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. ALL LIGHT GAUGE STEEL (SHEET STEEL) SHALL BE WELDED PER AWS D1.3. ALL REINFORCING STEEL SHALL BE WELDED WITH LOW HYDROGEN RODS PER AWS D1.4, OR REINFORCING STEEL SHALL CONFORM TO ASTM A-706. ALL SHOP WELDED MUST BE PERFORMED BY "APPROVED" WELDERS IN A SHOP OF A LICENSED FABRICATOR. ALL FIELD WELDING SHALL BE PERFORMED BY "APPROVED" WELDERS. ELECTRODES SHALL BE E70XX FOR STRUCTURAL STEEL AND REBAR AND SHALL BE E60XX FOR LIGHT GAUGE STEEL. ★ (SEE OPTIONAL PROCESS)

THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATION OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK: PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO SHIPMENT OF SHOP WELDING.

a) FLOOR AND ROOF DECK WELDING.
b) WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS.
c) WELDED SHEET STEEL FOR COLD-FRAMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS WHICH ARE NOT PART OF AN ORDINARY MOMENT FRAME.
d) SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16".

MATERIAL SHALL BE IDENTIFIED BY MARKING OR STAMPING THE I.D. NUMBER ON STRUCTURAL STEEL COMPONENTS BY LICENSED FABRICATION SHOP.

ALL BUTT, BEVEL, GROOVE, VEE, U AND J WELDS SHALL BE PREQUALIFIED COMPLETE PENETRATION WELDS.

FILLER MATERIAL FOR WELDING: SHIELDED METAL-ARC: AWS A5.1 OR 15.5 E70XX ELECTRODES.

HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED BY SCRAPING OR WIRE BRUSHING AND SHOP PRIMED.

ALL STEEL WORK, INCLUDING WELD AND CONNECTIONS EXCEPT WHERE ENTIRELY ENCASED IN CONCRETE SHALL BE GIVEN ONE COAT OF ACCEPTABLE METAL PROTECTION WELL WORKED INTO JOINTS AND OPEN SPACES.
★ OPTIONAL USE OF: FCAW PROCESS: E71T-8 FOR STRUCTURAL/REBAR (MEETS ALL CHARPY REQUIREMENTS)
E71T-11 FOR METAL DECKING

COLD-FORMED STEEL FRAMING:
STRUCTURAL LIGHT GAUGE STEEL FRAMING AND ACCESSORIES SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A-1011/A GRADE AS LISTED BELOW, SEE PLAN FOR MINIMUM YIELD.
MATERIAL THICKNESS 0.060" OR LESS: ASTM A-1011/A GRADE 33 (UNO)
MATERIAL THICKNESS 0.060" OR GREATER: ASTM A-1011/A GRADE 50

SHEET STEEL DESIGNATION (GAUGE)	MINIMUM DELIVERED THICKNESS (INCHES)
26	0.017
22	0.029
20	0.034
18	0.046
16	0.057
14	0.071
12	0.100
11	0.114
10	0.128

LIGHT GAUGE STEEL STUDS AND TRACKS SHALL COMPLY WITH ASTM A-1003 STRUCTURAL GRADE 33 TYPE H

ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1, CHAPTER 5, PART C, "WELDER QUALIFICATIONS".

BOLTS, SCREWS, ETC. EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED

MACHINE BOLTS USED SHALL CONFORM TO SPECIFICATIONS OF ASTM STANDARD A-307.

NTD:
(b) CJP GROOVE WELD NDT
ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 in. (8mm) THICK OR GREATER. ULTRASONIC TESTING IN MATERIALS LESS THAN 5/16 in. (8 mm) THICK IS NOT REQUIRED. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

WOOD:

FRAMING: ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY AND SHALL BE OF THE FOLLOWING MINIMUM GRADES OR BETTER, PER WCLB RULES #16. MOISTURE CONTENT = 19% MAX.
PLATES AND BLOCKING - STANDARD GRADE OR BETTER
STUDS AND HEADER = HF #2, OR DF #2, OR BETTER

SHEATHING:

AMERICAN PLYWOOD ASSOCIATION PS 1-07. EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD GRADE GROUP 1 OR BETTER GRADE STAMPED AND IDENTIFIED UNDER THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS 1-07.

1. PLYWOOD SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD. PROVIDE SEAMLESS WOVEN POLYFLEX BOTTOM BOARD FOR MOISTURE PROTECTION
2. PLYWOOD ROOF DECK: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING WITH APPROVAL FROM DSA
3. EXTERIOR WALL SIDING:
   i. STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
   ii. OPTIONAL: 5/8" MDO
   iii. OPTIONAL: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
4. EXTERIOR WALL SIDING ATTACHMENT:
   FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC SECTION 2304.10.1.1

TREATED WOOD:

ALL WOOD INCLUDING WOOD SHEATHING IN CONTACT WITH CONCRETE OR MASONRY AND LOCATED LESS THAN 18" FROM EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL PER (CBC SECTION 2304.12.1.2).
1. ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
2. WOOD FASTENERS OTHER THAN SCREWS.
   ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, AND RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.
3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.10.5.1

CONTINUOUS INSPECTION:

PROJECT INSPECTOR TO PROVIDE CONTINUOUS FIELD INSPECTION.

IN-PLANT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION IN-PLANT

METALS, STRUCTURAL, AND MISC. STEEL:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND SERVICES REQUIRED FOR STRUCTURES AND MISCELLANEOUS STEEL AS SPECIFIED AND INDICATED IN THE DRAWINGS.

STEEL SHEETS: STEEL SHEETS FOR LIGHT GAUGE STEEL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-1011/A, GRADE 40 U.O.N. SHEET METAL GRAVEL STOPS AND FLASHINGS SHALL BE MINIMUM 0.030 THICKNESS AND SHALL BE GALVANIZED.

ERECTION:
ALL STRUCTURAL STEEL SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATION. TEMPORARY BRACING OR SHORING SHALL BE INSTALLED WHEREVER NECESSARY TO TAKE CARE OF LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND THE OPERATION OF SAME. CONNECTIONS SHALL BE ADEQUATE TO WITHSTAND STRESSES TO WHICH THEY ARE NORMALLY SUBJECTED. CONNECTIONS SHALL BE STEEL, EXCEPT AS OTHERWISE NOTED. FIELD CONNECTIONS SHALL BE BOLTED OR WELDED AS SHOWN ON THE DRAWINGS.

SHOP PAINT:

* EXPOSED STEEL COATED WITH ONE SHOP COAT OF PRIMER.
* NON-EXPOSED STEEL COATED WITH ON SHOP COAT OF PRIMER.
* ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

POWER DRIVEN FASTENERS FOR SILL PLATE, WOOD NAILERS TO STEEL COLUMNS, AND SHEET METAL TO STRUCTURAL STEEL:

ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, OR RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.

WOOD ROUGH CARPENTRY:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND STEPS NECESSARY TO PROTECT ALL COMPLETED, SEMI-COMPLETED, AND TEMPORARY WORK FROM COMMENCEMENT OF PROJECT TO COMPLETE, SEMI-COMPLETION OF SAME ANY PORTION OF THE WORK DAMAGED OR DISFIGURED SHALL BE SATISFACTORILY REPAIRED OR REPLACED AND THE WORK AS A WHOLE LEFT WITHOUT BLEMISH AT FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY MEASUREMENTS AT THE BUILDING, THE ACCURATE FITTING OF ALL WORK AND PROPER ACCOMMODATION OF OTHER TRADES.

DESCRIPTION OF WORK:
THIS SECTION INCLUDES FURNISHING OF ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES TO COMPLETE ROUGH CARPENTRY AS INDICATED IN THE DRAWINGS AND AS SPECIFIED HEREIN.

WORKMANSHIP:
ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE, SHALL BE ACCURATE AS TO MEASUREMENT AND SHALL BE CAREFULLY DONE, PLYWOOD SHEATHING SUBFLOOR SHALL PROVIDE A SMOOTH UNIFORM SURFACE CAPABLE PROPERLY ACCEPTING A CARPET FINISH.

ROOF DIAPHRAGM:
3/4" T&G APA RATED SHEATHING - STRUCTURE 1 EXPOSURE 1
SPAN RATING 48/24 MIN.
FASTEN TO ROOF JOISTS AND BEAMS W/ #10 X 1 1/4" LG. SELF DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS AT 4" OC AT BOUNDARIES, 6" OC AT EDGES, AND 12" OC FIELD SCREWS. MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

FLOOR DIAPHRAGM:
1 1/8" PLYWOOD - STURD-I-FLOOR
EXTERIOR - TONGUE AND GROOVE EDGES
SPAN RATING: 48"
FASTEN TO FLOOR JOISTS AND BEAMS W/ #10 - 24 X 1 3/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

@ 150-PSF ((FULLY BLOCKED))
FASTEN TO SHEET METAL SUPPORTS w/ #10 - 24 x 1 3/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS AT 4" O.C. BOUNDARIES + CONT. PANEL EDGES, 6" O.C. @ ALL OTHER PANEL EDGES 12" O.C. INTERMEDIATE.
ALL EDGES OF ALL PANELS SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING. WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33 MILS WITH A MINIMUM WIDTH OF 1.5 INCHES. SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR
STRENGTH: 3000 PSI MIN
TYPE: I OR II
DENSITY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:
2 X STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 X 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCREWS AT 24" O.C.

REFERENCE STANDARDS NOTES:

INTENT OF DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE STATE OF CALIFORNIA, CALIFORNIA CODE OF REGULATIONS, PART 1, 2, 3, 4, 5, 6, 9, AND 12, SUB-CHAPTER 1. CALIFORNIA BUILDING CODE, 2022 EDITION, MANUAL OF STEEL CONSTRUCTION, (AISC) 15TH EDITION, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, AWS D1.1, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STANDARD, (AITC) 109 ARCHITECTURAL SHEET METAL MANUAL, AIA FILE NO. 12-L (SMACNA) LATEST ADOPTED EDITION UNLESS OTHERWISE NOTED.

WORKMANSHIP:
WORKMANSHIP AND MATERIALS SHALL BE SUCH THAT BUILDING WILL BE WEATHERTIGHT AND WATERTIGHT.

INSPECTIONS:
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE 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.

CHANGES:
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

NAILING NOTES:
1. ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED
2. MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH. THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

CONNECTION AND FASTENERS:
ALL CONNECTIONS AND FASTENERS AS STATED ON THESE DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT WITH ICC REPORTS AND APPROVAL BY DSA.

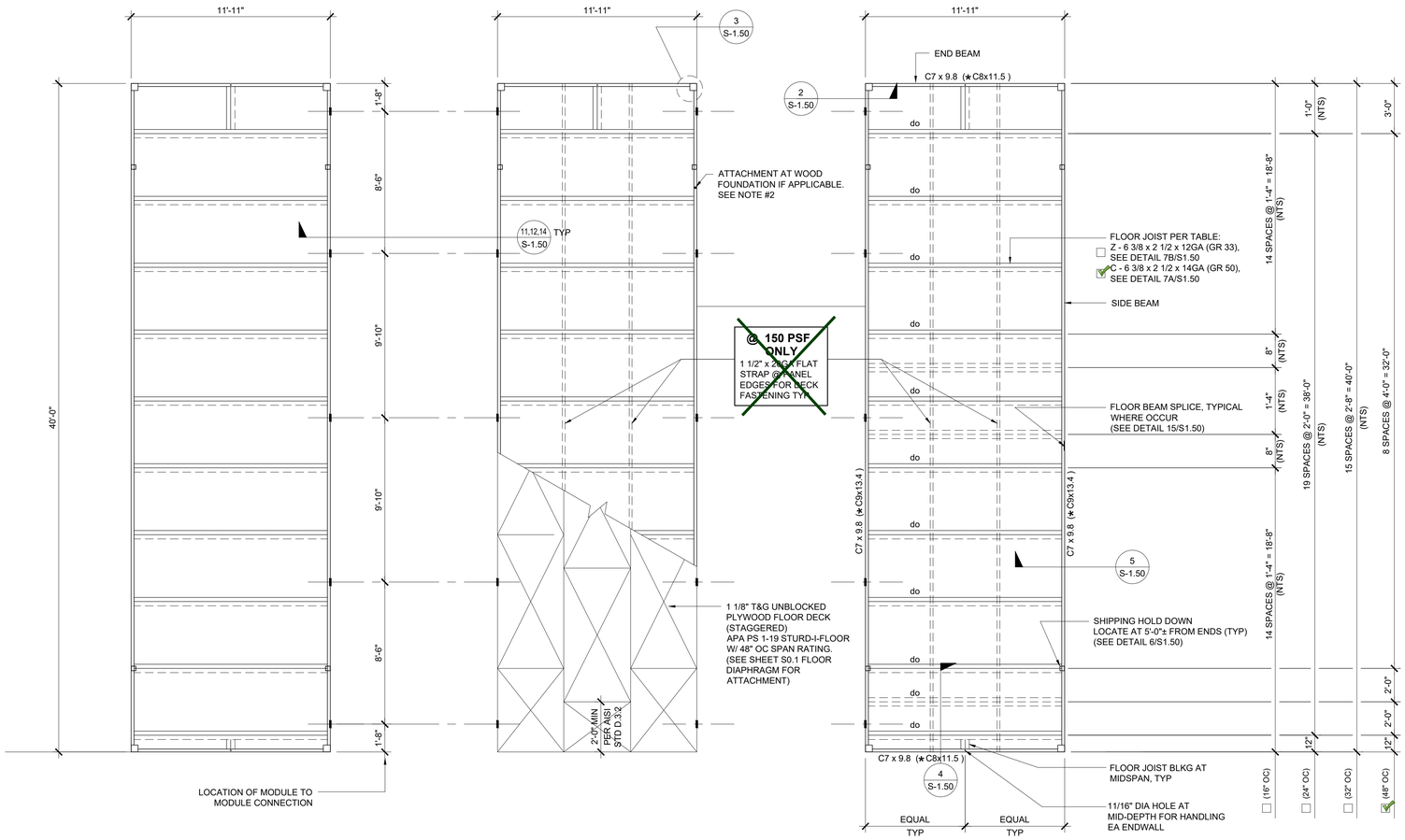
CONNECTION OF LAG SCREWS:
AS REQUIRED PER ANSI / AF&PA NDS-2012, LAG SCREWS MUST BE INSTALLED INTO A PRE-DRILLED PILOT HOLE WITH A STANDARD WASHER AND TURNED WITH A WRENCH. DO NOT DRIVE IN WITH A HAMMER. OVER-TORQUING CAN SIGNIFICANTLY REDUCE THE LATERAL RESISTANCE OF THE LAG SCREW AND SHOULD BE AVOIDED.

FASTENING SCHEDULE (2022 CBC TABLE 2304.10.1)

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
Roof		
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each end, toenail
Blocking between rafters or truss not at the wall top plate, to rafter or truss	2-8d common (2 1/2" × 0.131") 2-3" × 0.131" nails 2-3" 14 gage staples	Each end, toenail
	2-16 d common (3 1/2" × 0.162") 3-3" × 0.131" nails 3-3" 14 gage staples	End nail
Flat blocking to truss and web filler	16d common (3 1/2" × 0.162") @ 6" o.c. 3" × 0.131" nails @ 6" o.c. 3" × 14 gage staples @ 6" o.c	Face nail
2. Ceiling joists to top plate	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each joist, toenail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1)	3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
4. Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1)	Per Table 2308.7.3.1	Face nail
5. Collar tie to rafter	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
6. Rafter or roof truss to top plate (See Section 2308.7.5, Table 2308.7.5)	3-10 common (3" × 0.148"); or 3-16d box (3 1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131 nails; or 4-3" 14 gage staples, 7/16" crown	Toenail[c]
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown; or	End nail
	3-10d common (3" × 0.148"); or 4-16d box (31/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Toenail
Wall		
8. Stud to stud (not at braced wall panels)	16d common (3 1/2" × 0.162");	24" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	16" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	16d box (3 1/2" × 0.135"); or	12" o.c. face nail
	3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	12" o.c. face nail
10. Built-up header (2" to 2" header)	16d common (3 1/2" × 0.162"); or	16" o.c. each edge, face nail
	16d box (3 1/2" × 0.135")	12" o.c. each edge, face nail
11. Continuous header to stud	4-8d common (2 1/2" × 0.131"); or 4-10d box (3" × 0.128")	Toenail
12. Top plate to top plate	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c face nail
13. Top plate to top plate, at end joints	8-16d common (3 1/2" × 0.162"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails; or 12-3" 14 gage staples, 7/16" crown	Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)
14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	16d box (3 1/2" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	2-16d common (3 1/2" × 0.162"); or 3-16d box (3 1/2" × 0.135"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	16" o.c face nail
16. Stud to top or bottom plate	4-8d common(2 1/2" × 0.131"; or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown; or	Toenail
	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	End nail
17. Top plates, laps at corners and intersections	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Face nail
18. 1" brace to each stud and plate	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown	Face nail
19. 1" × 6" sheathing to each bearing	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
20. 1" × 8" and wider sheathing to each bearing	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128")	Face nail
Floor		
21. Joist to sill, top plate, or girder	3-8d common (2 1/2" × 0.131"); or floor 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Toenail
22. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common (2 1/2" × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	6" o.c., toenail
23. 1" × 6" subfloor or less to each joist	2-8d common (2

NOTE:
* SEE BEAM AND COLUMN SCHEDULE ON SHEETS S-3.01 THRU S-3.02 FOR APPLICABLE FLOOR BEAM SIZE

REAR



LEFT HAND MODULE

INTERIOR MODULE

RIGHT HAND MODULE

FRONT

NOTES:

1. FOR FLOOR BLOCKING SEE DETAILS 4,7B / S-1.50 (STD), 4,7A / S-1.50 (ALT)
2. FOR BUILDINGS ON WOOD FOUNDATION SYSTEMS, PROVIDE 11/16" DIA. HOLE AT BOTTOM FLANGE OF FLOOR BEAM FOR LAG SCREW ATTACHMENT TO FOUNDATION PLATES BELOW. FOR EXACT HOLE LOCATIONS, SEE FOUNDATION PLAN.
3. FLOOR SHEATHING SHALL BE PRESSURE TREATED WOOD OR NATURALLY DURABLE IF BOTTOM OF PLYWOOD IS LESS THAN 18" CLEAR FROM EXPOSED EARTH.
4. HSS COLUMN SCHEDULES ON SHEETS S-3.01 THRU S-3.02

FLOOR JOIST TABLE

	LIVE LOAD PSF	JOIST SPACING	
		CLASSROOM ☑	OFFICE ☐
☑	50	48"	48" DBL JOIST
☐	50	32"	32" DBL JOIST
☐	50	24"	24" DBL JOIST
☐	50	16"	16" DBL JOIST
☐	50 + 15	32"	
☐	50 + 15	24"	
☐	50 + 15	16"	
☐	100	24"	
☐	100	16"	
☐	150	16"	

FLOOR SHEATHING

☐ PRESSURE TREATED

☑ NON-PRESSURE TREATED

NOTE:
PRESSURE TREATED SHEATHING SHALL ONLY BE PROVIDED WHEN WOOD FOUNDATIONS ARE USED AND EXPOSED EARTH OCCURS WITHIN THE FOUNDATION AT A DISTANCE OF LESS THAN 18" BELOW THE UNDERSIDE OF THE FLOOR SHEATHING. SEE 16/F-0.50 FOR ADDITIONAL INFORMATION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

FLOOR FRAMING PLAN
WOOD FLOOR

REVISIONS
1.
2.
3.
4.
5.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

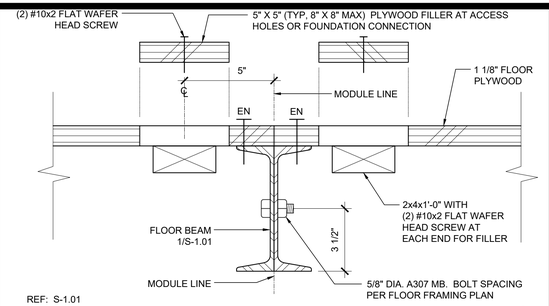
REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

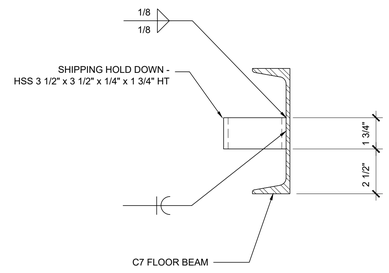
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

S-1.01



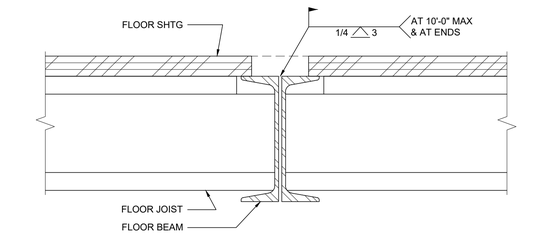
16 MODULE LINE - BOLTED CONNECTION SCALE : 3" = 1'-0"



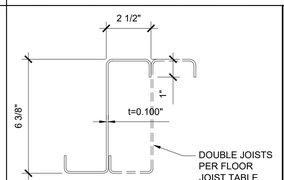
11 SHIPPING HOLD DOWN DETAIL SCALE : 3"=1'-0"

6

1

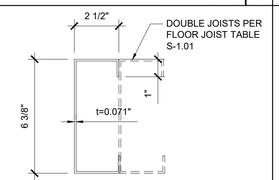


17 MODULE LINE CONNECTION (OPTION 1) SCALE : 3"=1'-0"

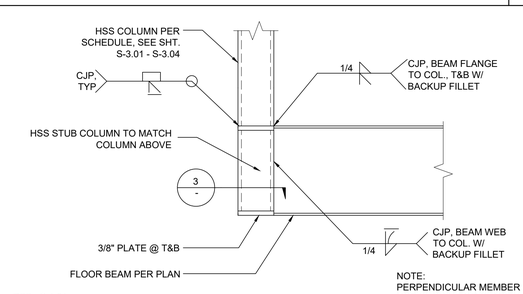


12 FLOOR JOIST SCALE : 3" = 1'-0"

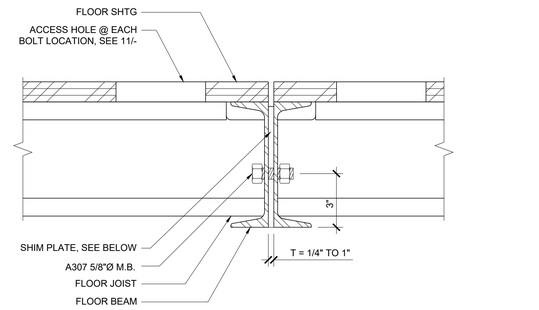
7B



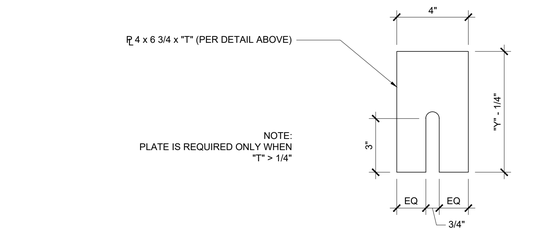
7A FLOOR JOIST SCALE : 3" = 1'-0"



2 FLOOR BEAM TO COLUMN CONNECTION SCALE : 1 1/2" = 1'-0"

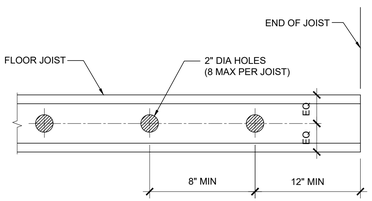


18



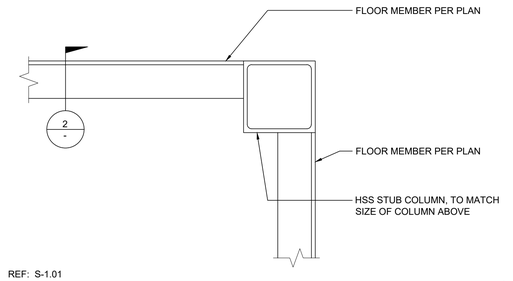
19 MODULE LINE CONNECTION (OPTION 2) SCALE : 3"=1'-0"

14



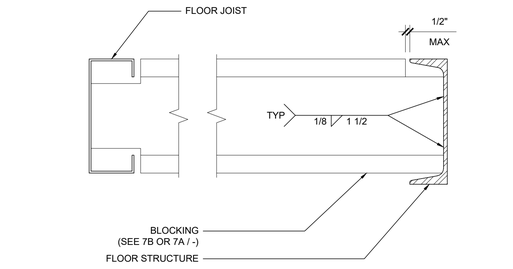
FLOOR JOIST HOLES (OPTIONAL) SCALE : 1/8" = 1'-0"

8



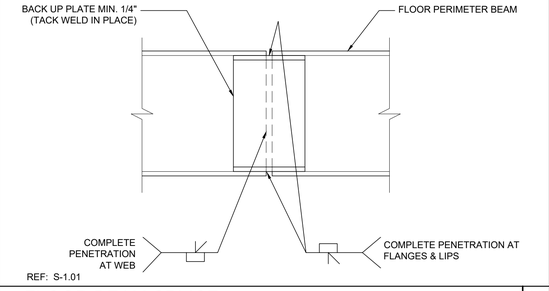
CORNER CONNECTION SCALE : 3" = 1'-0"

3



BLOCKING TO END BEAM SCALE : 3" = 1'-0"

4

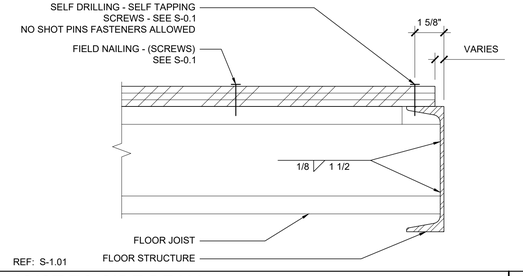


20 FLOOR BEAM SPLICE SCALE : 3" = 1'-0"

15

NOT USED

10



JOIST TO SIDE BEAM SCALE : 3" = 1'-0"

5

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PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

FLOOR FRMING DETILS

WOOD FLOOR

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

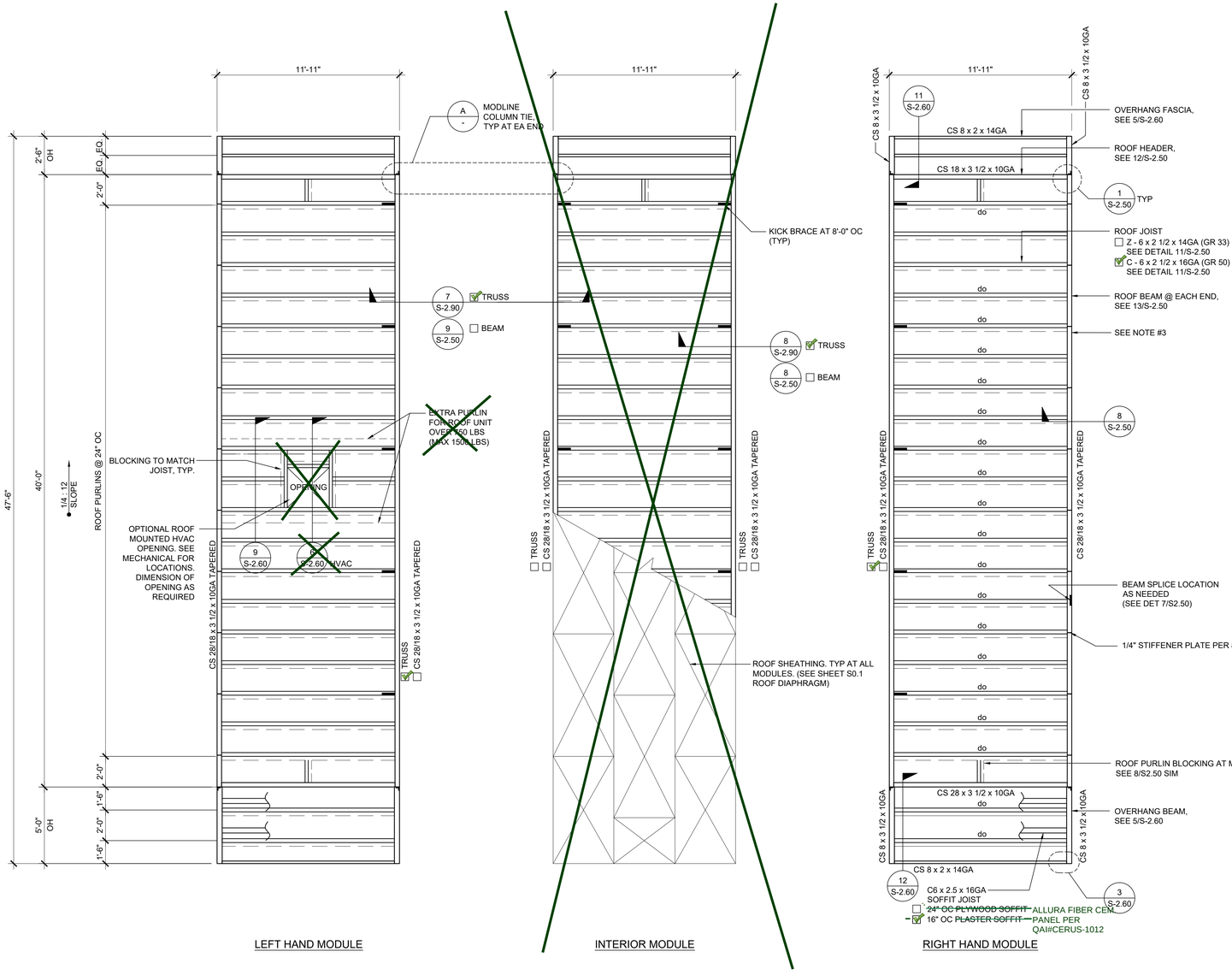
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

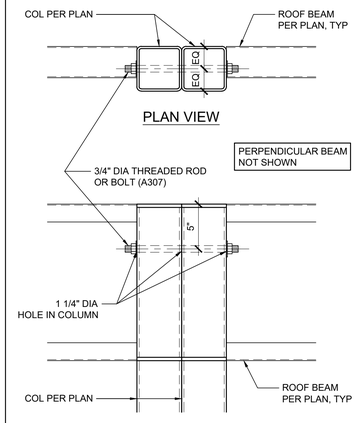
P.C. SHEET NUMBER

S-1.50



NOTES

1. FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION. SEE 5,15 / S-2.50 OR 5,15/S-2.51 FOR DETAILS
2. PROVIDE ADDITIONAL JOIST FOR FIRE SPRINKLER LINE AS NEEDED. LOCATION OF FIRE SPRINKLER PURLIN TO BE DETERMINED BY SITE STIFFENER PLATE OR ANGLE BRACE REQUIRED AT THIS LOCATION. FOR FIRE SPRINKLER LINE SIDE BEAM PENETRATION, SEE 14 / S-2.50 OR 14 / S-2.51 DETAILS.
3. FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS



SECTION VIEW

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

ROOF FRAMING PLAN
MONO SLOPE

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

S-2.01

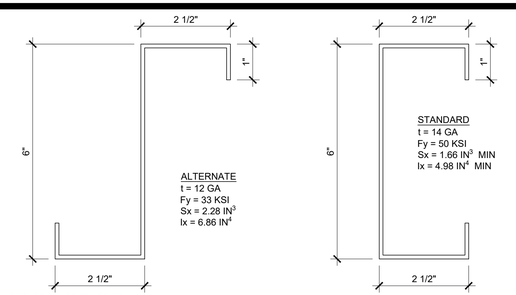
ROOF FRAMING PLAN

SCALE: 1/4" = 1' - 0" | 1

NOT USED 16

ROOF PURLIN

SCALE : 6"=1'-0" 11

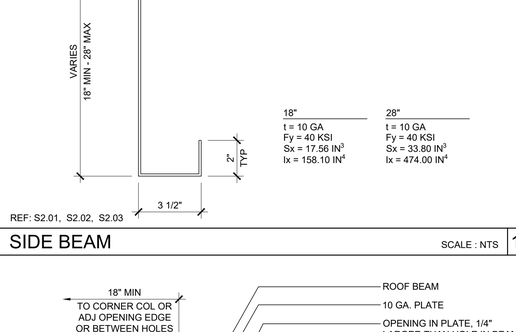


REF: S2.01, S2.02, S2.03

NOT USED 17

ROOF HEADER

SCALE : NTS 12

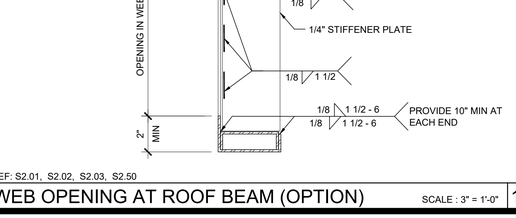


REF: S2.01, S2.02, S2.03

NOT USED 18

SIDE BEAM

SCALE : NTS 13

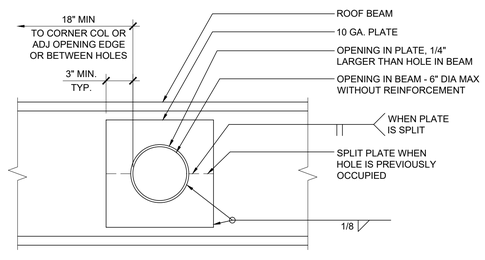


REF: S2.01, S2.02, S2.03, S2.50

NOT USED 19

SIDEWALL BEAM PENETRATION

SCALE : 1 1/2"=1'-0" 14



REF: S2.01, S2.02, S2.03

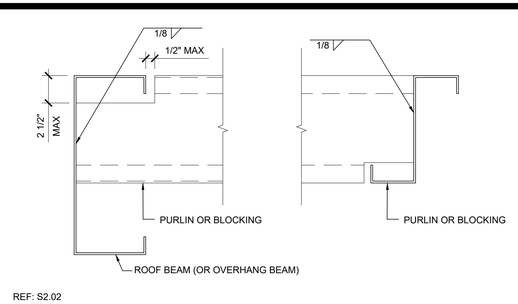
NOT USED 20

WEB OPENING AT ROOF BEAM (OPTION)

SCALE : 3" = 1'-0" 15

REF: S2.01, S2.02, S2.03, S2.50

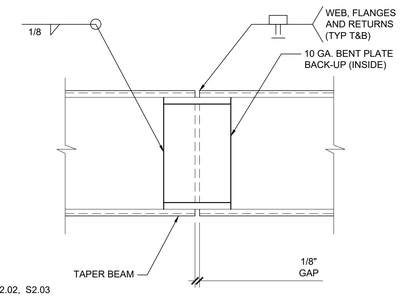
NOT USED 21



REF: S2.02

TYPICAL PURLIN CONNECTION DETAIL

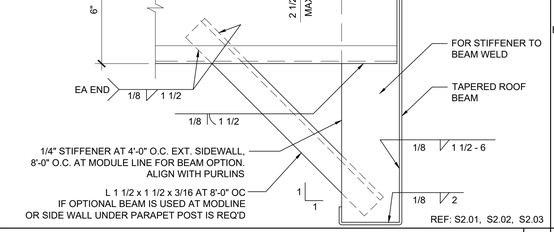
SCALE : 3" = 1'-0" 6



REF: S2.01, S2.02, S2.03

BEAM SPLICE

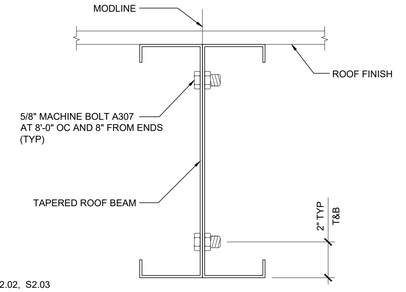
SCALE: 3" = 1'-0" 7



REF: S2.01, S2.02, S2.03

PURLIN TO ROOF BEAM @ STIFFENER

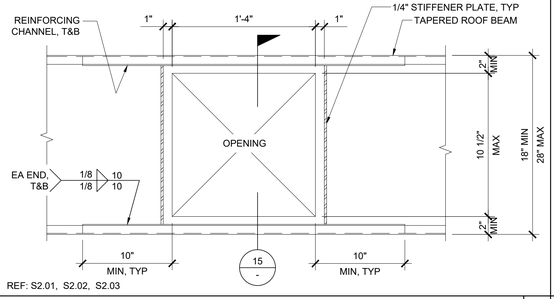
SCALE : 3"=1'-0" 8



REF: S2.01, S2.02, S2.03

OPENING AT ROOF BEAM (OPTION)

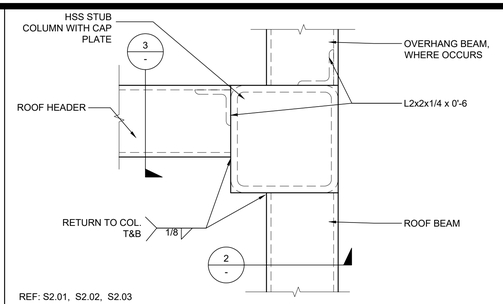
SCALE : 1 1/2" = 1'-0" 10



REF: S2.01, S2.02, S2.03

COLUMN AT ROOF - PLAN

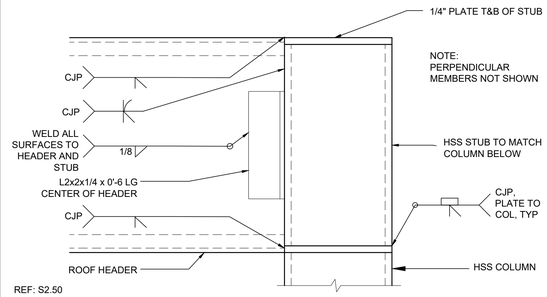
SCALE : 3" = 1'-0" 1



REF: S2.01, S2.02, S2.03

COLUMN AT ROOF - SECTION

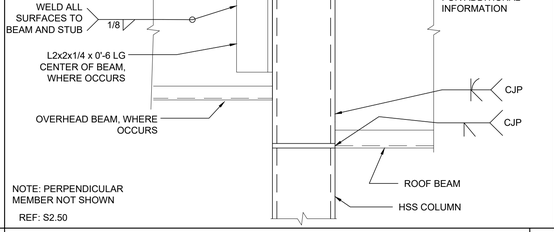
SCALE : 3" = 1'-0" 2



REF: S2.50

COLUMN AT ROOF OVERHANG

SCALE : 3" = 1'-0" 3

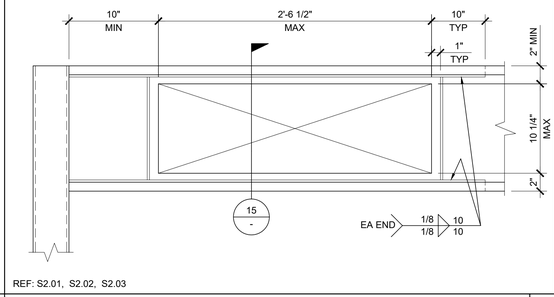


REF: S2.50

NOT USED 4

OPENING AT HEADER

SCALE : 1 1/2"=1'-0" 5



REF: S2.01, S2.02, S2.03

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

ROOF FRAMING DETAILS
MONO SLOPE

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24776
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

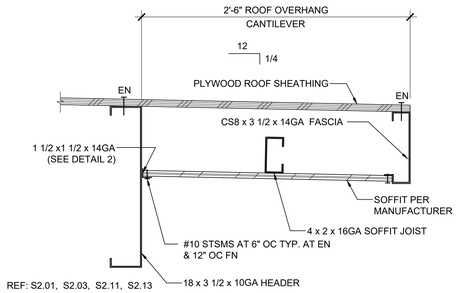
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

S-2.50

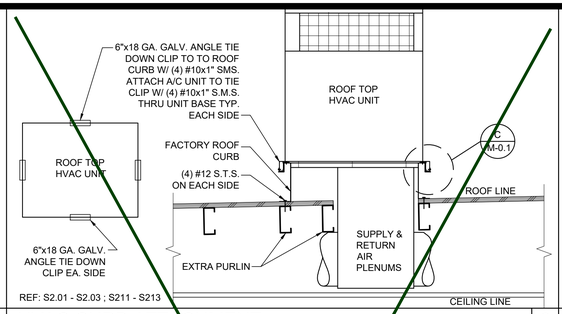
NOT USED 16

REAR OVERHANG SECTION SCALE : 1 1/2" = 1'-0" 11



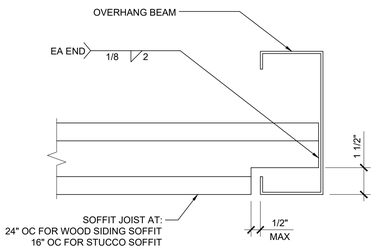
REF: S2.01, S2.03, S2.11, S2.13

HVAC CURB ATTACHMENT SCALE : 3/4" = 1'-0" 6



REF: S2.01 - S2.03 ; S211 - S213

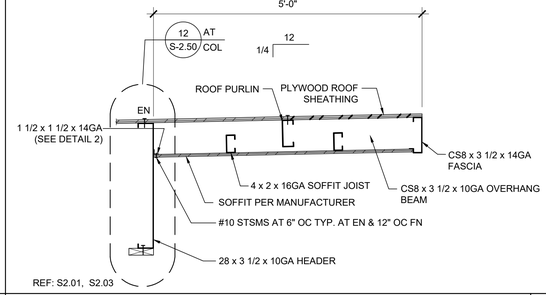
SOFFIT JOIST TO OVERHANG BEAM SCALE : 3"=1'-0" 1



REF: S3.01

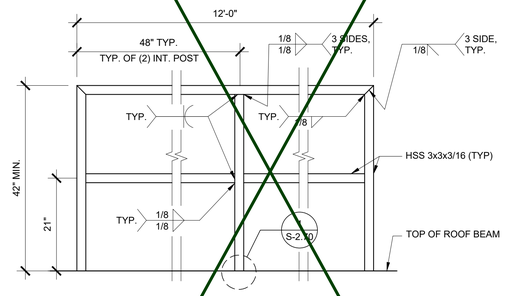
NOT USED 17

FRONT OVERHANG SECTION - MONO SLOPE SCALE: 3/4" = 1'-0" 12

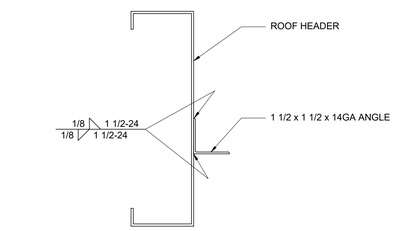


REF: S2.01, S2.03

GUARDRAIL AT SIDEWALL SCALE : 3/4"=1'-0" 7



SOFFIT ANGLE TO HEADER CONNECTION SCALE : 3"=1'-0" 2



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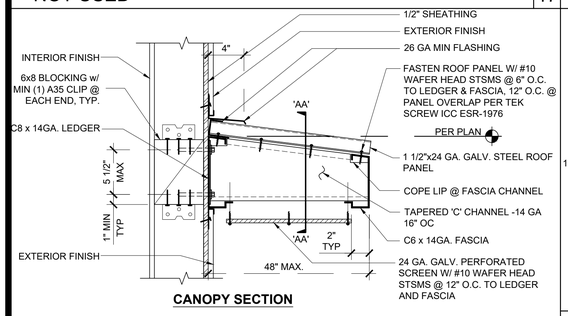
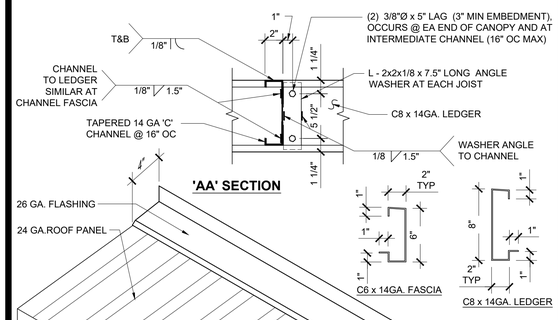


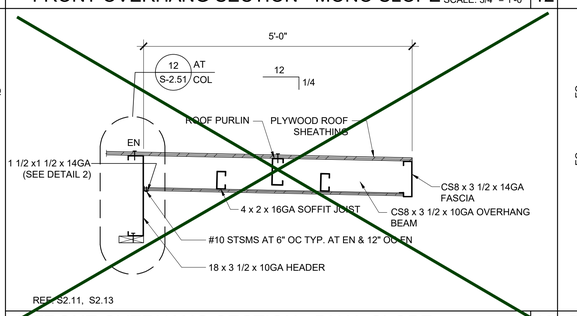
CANOPY SECTION



'AA' SECTION

CANOPY ISOMETRIC

OPTIONAL CANOPY SCALE : 1 1/2" = 1'-0" 20



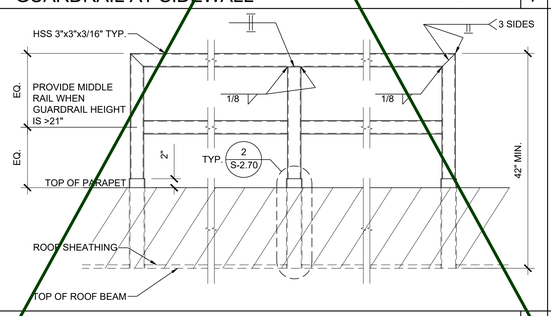
REF: S2.11, S2.13

FRONT OVERHANG SECTION - DUAL SLOPE SCALE: 3/4" = 1'-0" 13

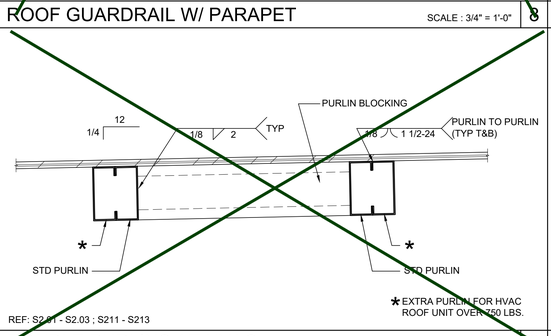
NOT USED 14

NOT USED 15

ROOF GUARDRAIL W/ PARAPET SCALE : 3/4" = 1'-0" 8



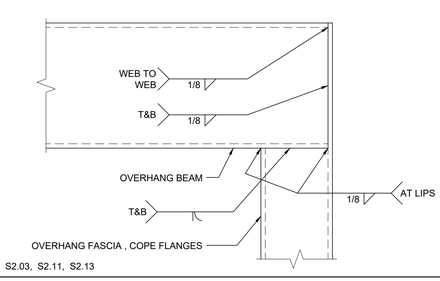
DOUBLE PURLINS AT HVAC SCALE: 1 1/2" = 1'-0" 9



REF: S2.01 - S2.03 ; S211 - S213

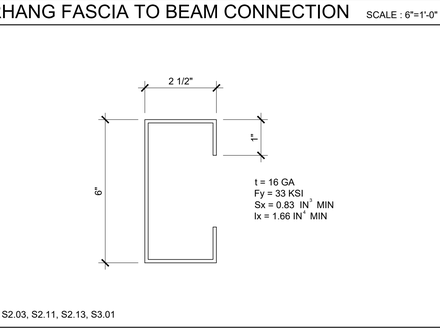
NOT USED 10

OVERHANG FASCIA TO BEAM CONNECTION SCALE : 6"=1'-0" 3



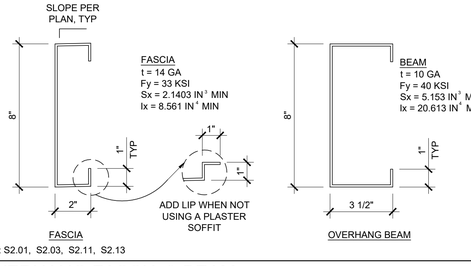
REF: S2.01, S2.03, S2.11, S2.13

SOFFIT JOIST SCALE : 6"=1'-0" 4



REF: S2.01, S2.03, S2.11, S2.13, S3.01

OVERHANG FASCIA & BEAM SCALE : 3"=1'-0" 5



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PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

ROOF FRAMING DETAILS

REVISIONS

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

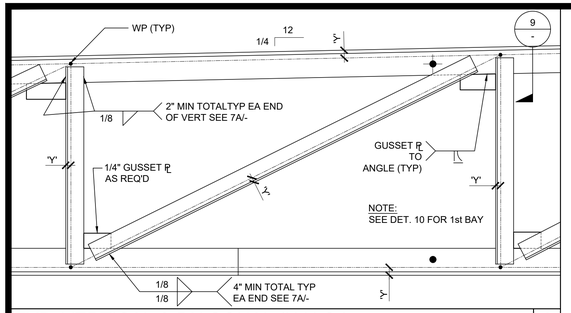
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24575
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

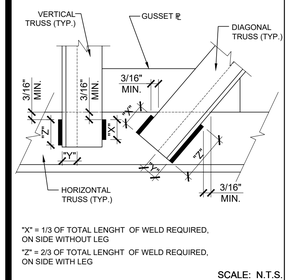
P.C. SHEET NUMBER

S-2.60



TYP. VERTICAL & DIAGONAL (U.N.O.)

SCALE: 1 1/2" = 1' - 0" | 6

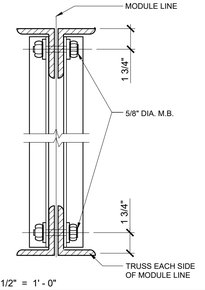


"X" = 1/3 OF TOTAL LENGHT OF WELD REQUIRED, ON SIDE WITHOUT LEG

"Z" = 2/3 OF TOTAL LENGHT OF WELD REQUIRED, ON SIDE WITH LEG

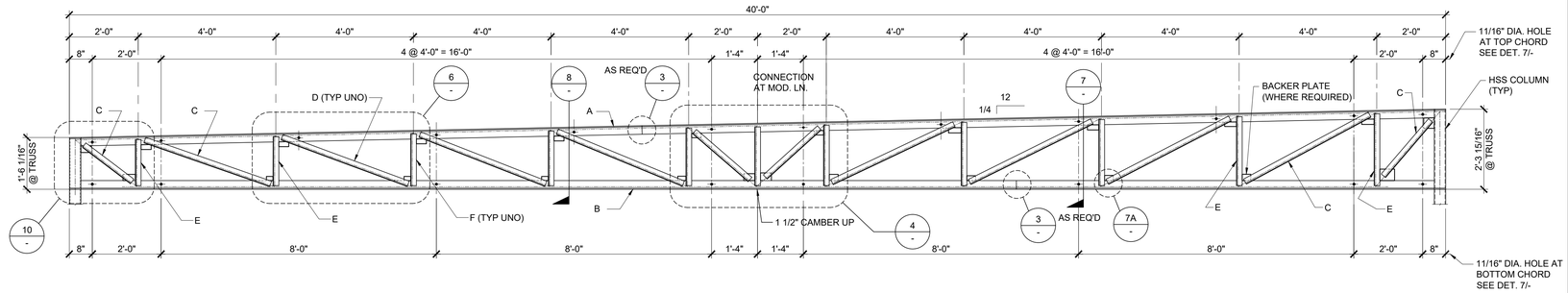
SCALE: N.T.S.

FILLET WELD TERMINATION | 7A



SCALE: 1 1/2" = 1' - 0"

CONNECTION @ MODULE LINE | 7



MONO SLOPE TRUSS

SCALE: 1/2" = 1' - 0" | 1

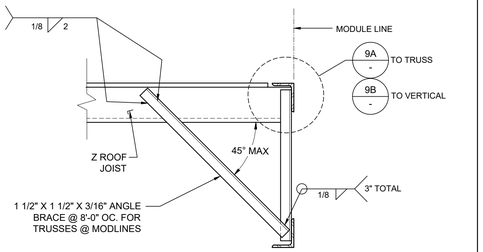
NOTES:

1. SEE SHEET S-0.1 FOR STEEL GRADES.
2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70
3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECIFICATIONS
4. BOLTS AND NUTS GRADES TO BE A307

REF: ROOF FRAMING PLAN

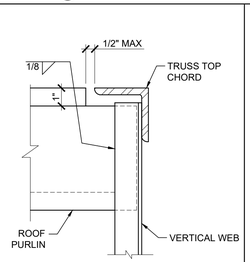
TRUSS MARK:			Y=
A	TOP CHORD	4" x 4" x 3/8" (LLV)	1 1/4
B	BOTTOM CHORD	4" x 4" x 3/8" (LLV)	1 1/4
C	END DIAGONALS (2 EACH END)	2" x 2" x 10 GA.	9/16
D	TYPICAL DIAGONALS	1 1/2" x 1 1/2" x 10 GA.	7/16
E	END VERTICAL (2 EACH END)	1 1/2" x 1 1/2" x 10 GA.	7/16
F	TYPICAL VERTICALS	1 1/2" x 1 1/2" x 10 GA.	7/16

NOTE; "Y" MAY BE 1/4" MAX. OUT OF ALIGNMENT



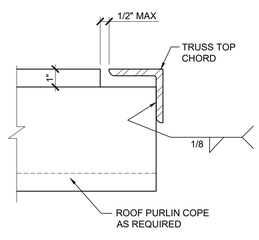
BRACE @ TRUSS & MATING LINE

SCALE: 1 1/2" = 1' - 0" | 8

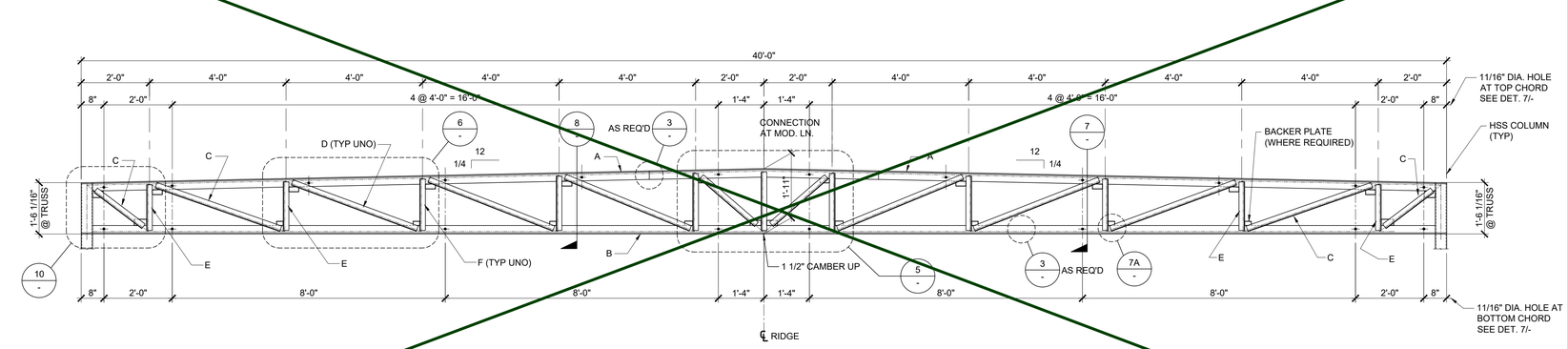


SCALE: 3" = 1' - 0"

PURLIN TO VERT. ANGLE CONN. | 9B



PURLIN TO TRUSS CONN. SCALE: 3"=1'- 0" | 9A



NOTES:

1. SEE SHEET S-0.1 FOR STEEL GRADES.
2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70
3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECIFICATIONS
4. BOLTS AND NUTS GRADES TO BE A307

REF: ROOF FRAMING PLAN

TRUSS MARK:			Y=
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B	BOTTOM CHORD	4" x 4" x 3/8" (LLV)	1 1/4
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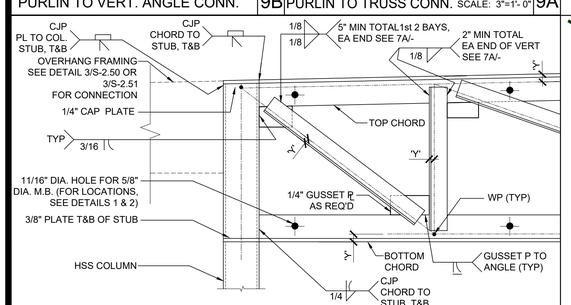
E	END VERTICAL (2 EACH END)	1 1/2" x 1 1/2" x 10 GA.	7/16
F	TYPICAL VERTICALS	1 1/2" x 1 1/2" x 10 GA.	7/16

NOTE; "Y" MAY BE 1/4" MAX. OUT OF ALIGNMENT

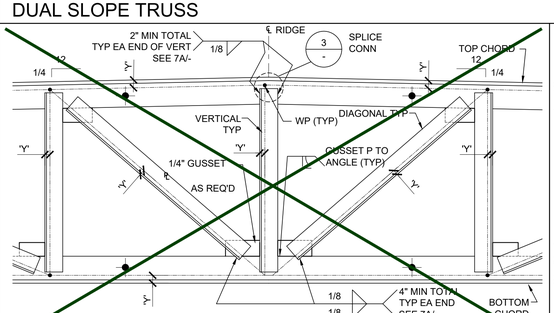
DUAL SLOPE TRUSS

SCALE: 1/2" = 1' - 0" | 2



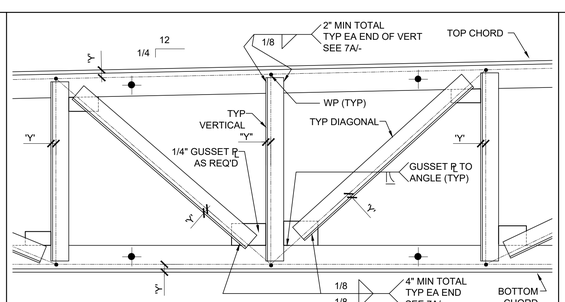
TRUSS TO COLUMN / OH FRAME CONN.

SCALE: 1 1/2" = 1' - 0" | 10



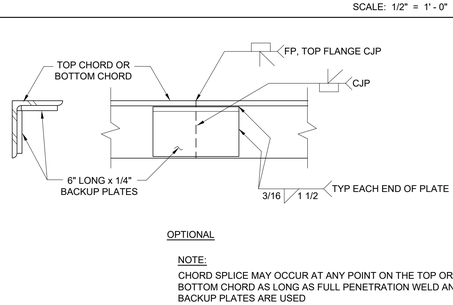
VERT. & DIAG. AT MID-POINT

SCALE: 1 1/2" = 1' - 0" | 5



VERT. & DIAG. AT MID- POINT

SCALE: 1 1/2" = 1' - 0" | 4



OPTIONAL

NOTE:

CHORD SPLICE MAY OCCUR AT ANY POINT ON THE TOP OR BOTTOM CHORD AS LONG AS FULL PENETRATION WELD AND BACKUP PLATES ARE USED

TRUSS CHORD SPLICE

SCALE: 3" = 1' - 0" | 3

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SHEET TITLE:

ROOF FRAMING DETAILS
TRUSS

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MODULAR BUILDING DESIGN PROFESSIONAL

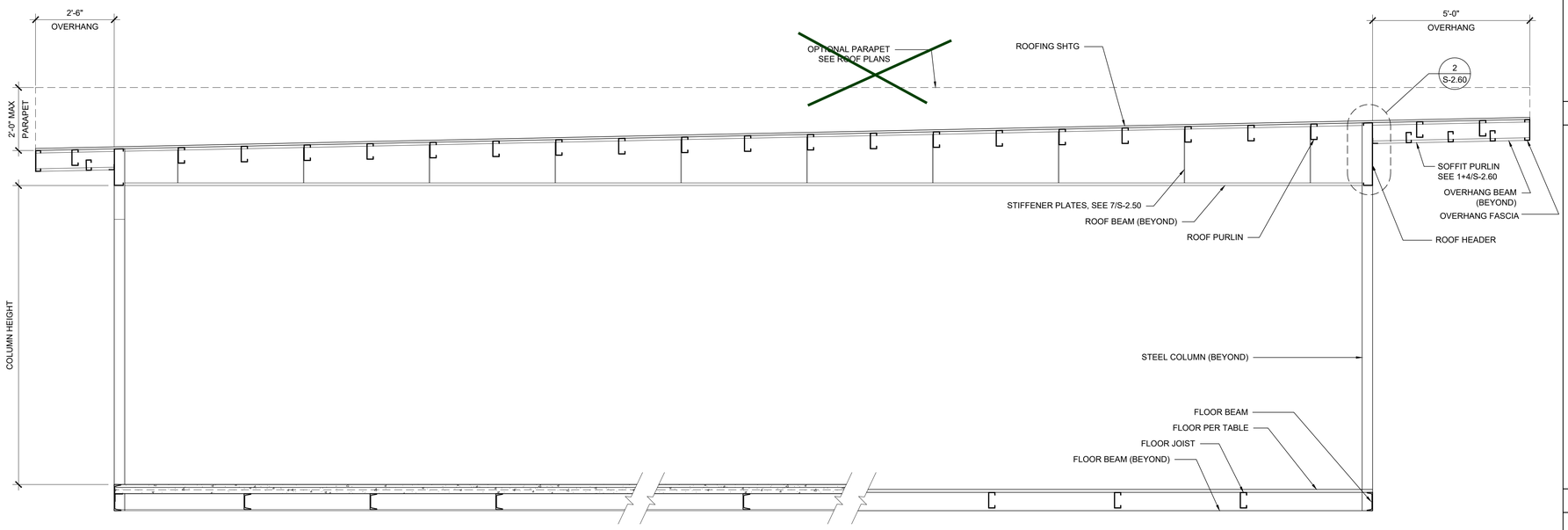
REGISTERED PROFESSIONAL ENGINEER JOHN 'N STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

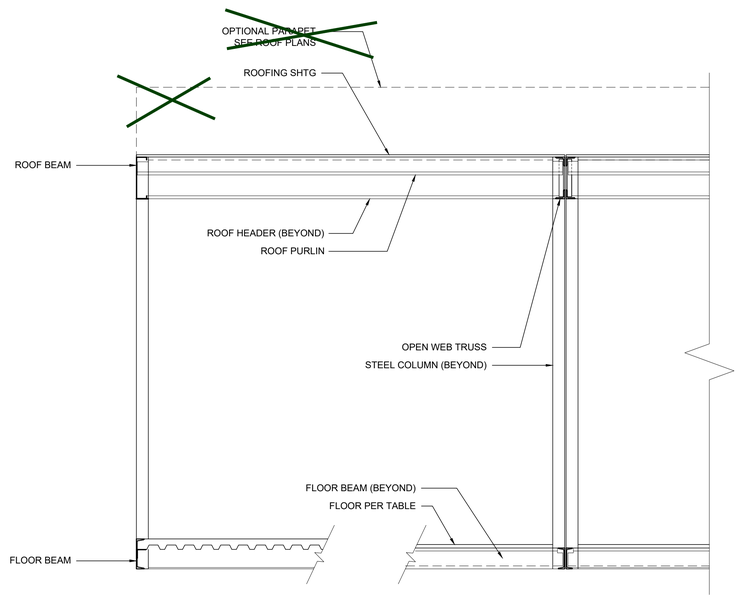
P.C. SHEET NUMBER

S-2.90



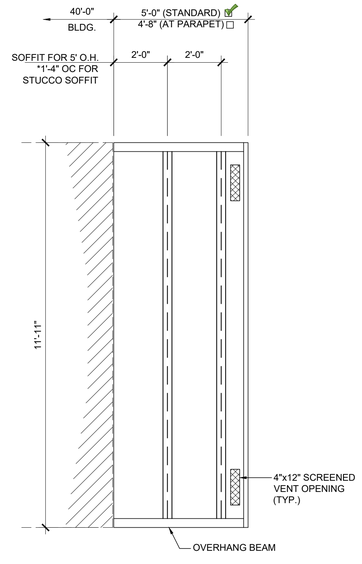
BUILDING SECTION

SCALE: 1/2" = 1'-0" | 1



BUILDING SECTION

SCALE: 1/2" = 1'-0" | 3



ENCL. SOFFIT PLAN-OPT.

SCALE: 3/8" = 1'-0" | 2

NOTES

1. ALL INFORMATION SUCH AS DETAILS, SECTIONS, CONNECTIONS, AND MATERIAL ATTACHMENT SHALL BE REFERENCED FROM OTHER SHEETS WITHIN THIS SET WHERE IT APPLIES.

FLOOR CONSTRUCTION

- ☑ WOOD FLOOR
- ~~☐ CONCRETE FLOOR~~

HSS COLUMN SCHEDULE

COLUMN HEIGHT	NO PARAPET	ROOF W/ PARAPET
☑ 9'-0"	☑ 6 x 6 x 1/4	☐ 6 x 6 x 1/4 ★
☐ 9'-6"	☐ 6 x 6 x 1/4	☐ 6 x 6 x 1/4 ★
☐ 10'-0"	☐ 6 x 6 x 1/4	☐ 6 x 6 x 1/4 ★
☐ 10'-6"	☐ 6 x 6 x 1/4	☐ 6 x 6 x 1/4 ★

FLOOR BEAM

C7x9.8 (TYP) PERIMETER BEAM FOR WOOD FLOOR
★ C9x13.4 PERIMETER BEAM FOR WOOD FLOOR
C10x15.3 TYP. PERIMETER BEAM FOR CONCRETE FLOOR

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

BUILDING SECTIONS
MONO SLOPE

REVISIONS

1.
2.
3.
4.
5.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

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DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

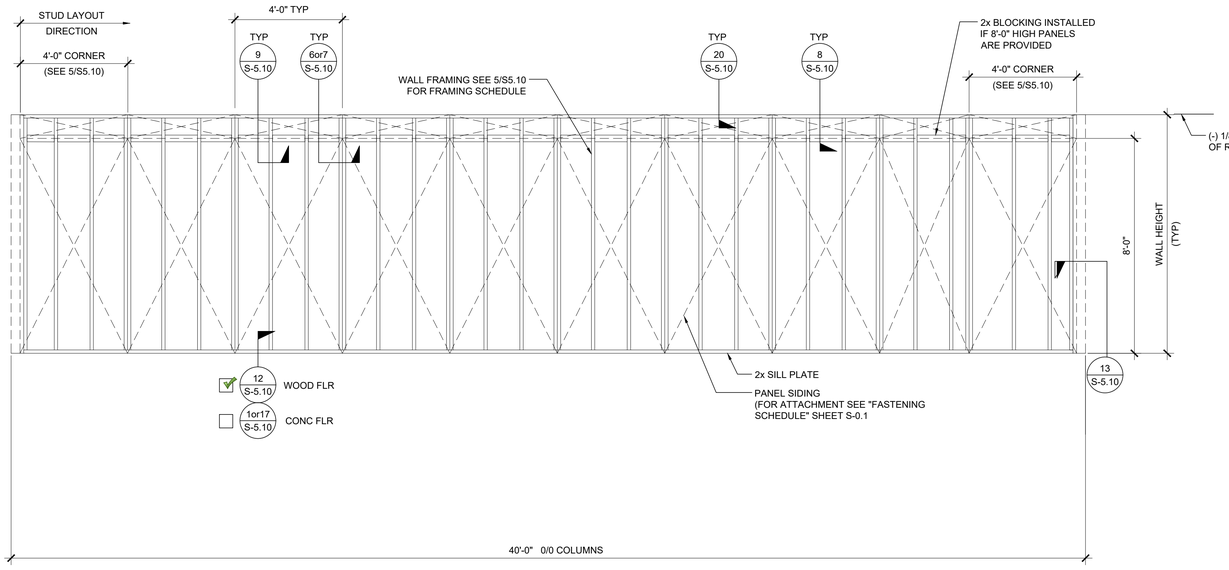
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

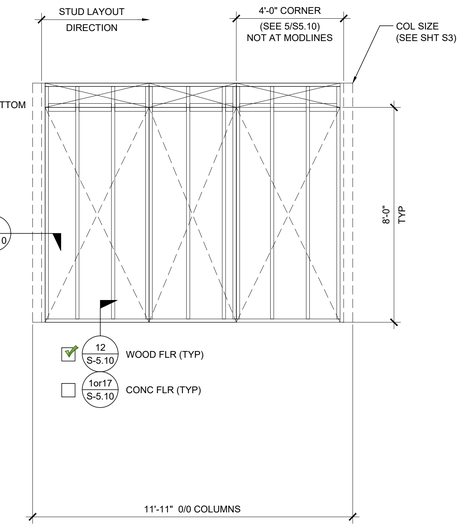
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

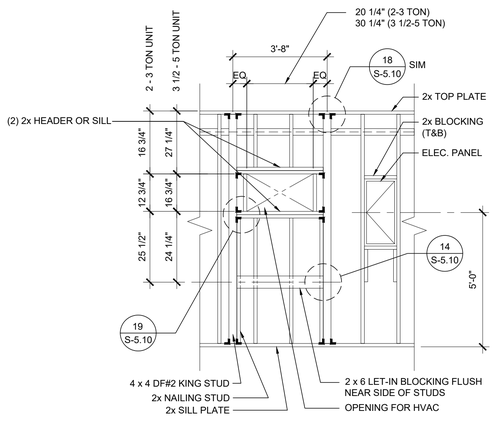
S-3.01



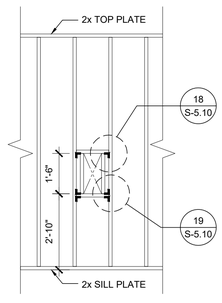
TYPICAL SIDE WALL



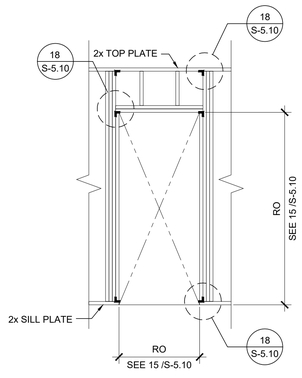
TYPICAL END WALL



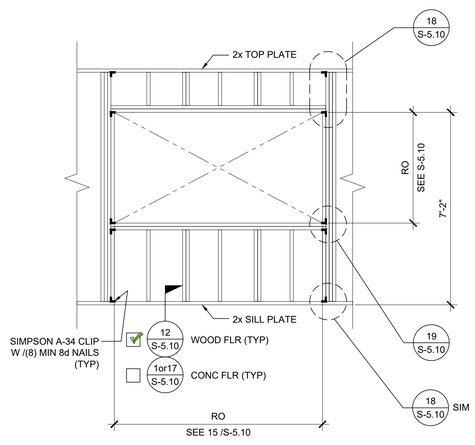
TYPICAL HVAC



FIRE EXTINGUISHER CABINET BLOCKOUT



TYPICAL DOOR



TYPICAL WINDOW

FRAMING ELEVATIONS

SCALE: 3/8" = 1' - 0" | 1

NOTES

WALL HEIGHT SCHEDULE

COLUMN HEIGHT	☑ 9'-0"	☐ 9'-6"	☐ 10'-0"	☐ 10'-6"
☐ CONCRETE FLOOR	8'-11 7/8"	9'-5 7/8"	9'-11 7/8"	10'-5 7/8"
☑ WOOD FLOOR	8'-10 3/4"	9'-4 3/4"	9'-10 3/4"	10'-4 3/4"

NOTE:
ALL EXTERIOR WALL FRAMING SHALL BE 2x6 (MIN).
EXCEPTION: UNCONDITIONED RESTROOM MODULES MAY UTILIZE 2x4 FRAMING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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SS ☑ FLS ☑ ACS ☑
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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

WALL FRAMING ELEVATIONS WOOD STUDS

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

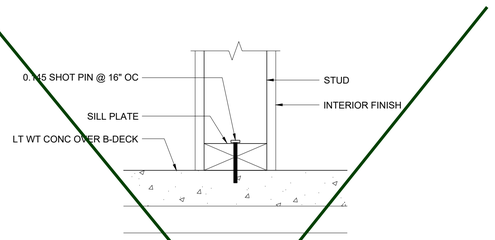
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29705 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

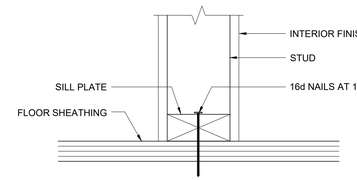
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

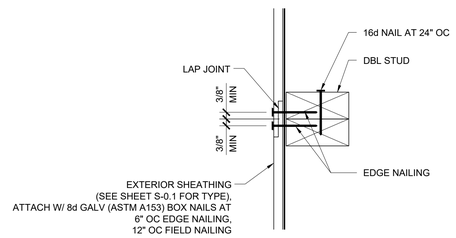
S-5.00



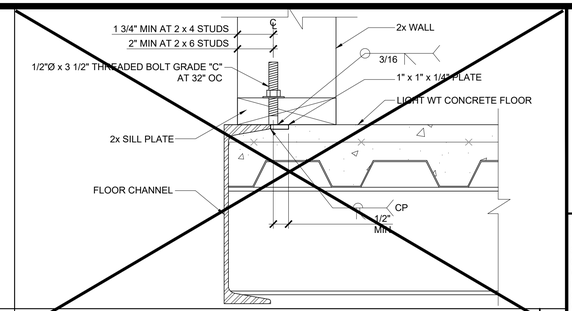
PARTITION CONNECTION AT CONC FLOOR SCALE : 3"=1'-0" 16



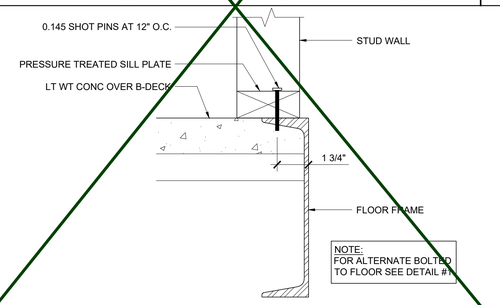
PARTITION CONNECTION AT WOOD FLOOR SCALE : 3"=1'-0" 11



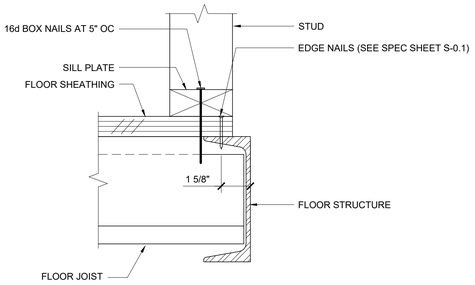
VERTICAL SHEATHING LAP JOINT SCALE : 3"=1'-0" 6



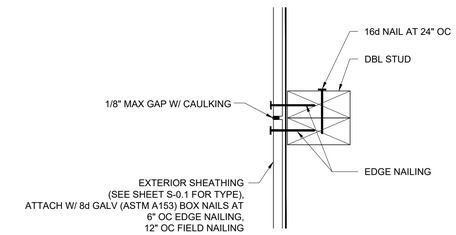
OPTIONAL BOLTED WALL TO FLOOR SCALE : NTS 1



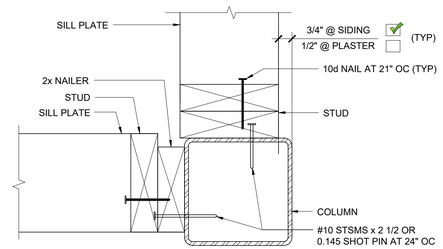
WALL SILL AT CONCRETE FLOOR SCALE : 3"=1'-0" 17



WALL SILL AT WOOD FLOOR SCALE : 3"=1'-0" 12



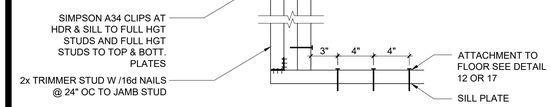
VERTICAL SHEATHING BUTT JOINT SCALE : 3"=1'-0" 7



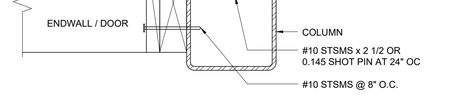
COLUMN AT ENDWALL (2x6) SCALE : 3"=1'-0" 2

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE
LESS THAN 9'-6"	3070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
		PLASTER	(2	2X4	DF	#2		N/A			(3)	2X4	DF	#2
COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE
9'-6" TO 10'-6"	3070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2

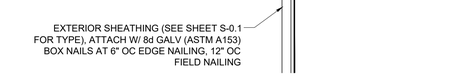
NOTE:
OPENINGS LARGER THAN 3'x7' ARE NOT PERMITTED IN 2x4 WALLS WITH PLASTER FINISH.



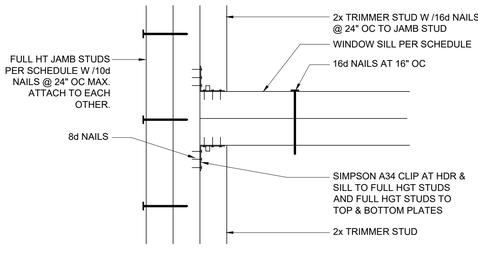
DOOR/WINDOW HEADER AND JAMB SCALE : 1 1/2"=1'-0" 18



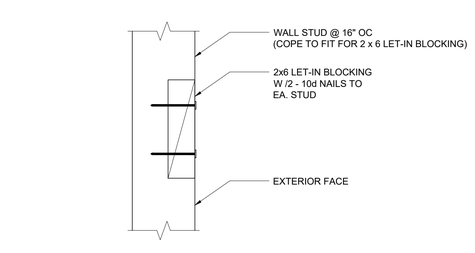
COLUMN AT ENDWALL (2x4) SCALE : 3"=1'-0" 13



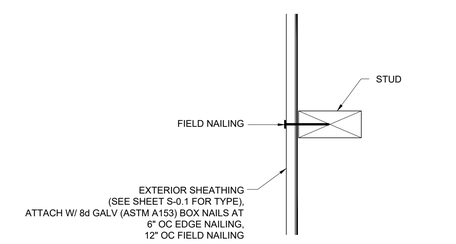
HORIZONTAL SHEATHING JOINT SCALE : 3"=1'-0" 8



WINDOW SILL AND JAMB SCALE : 3"=1'-0" 19



LET-IN BLOCK ATTACHMENT SCALE : 3"=1'-0" 14

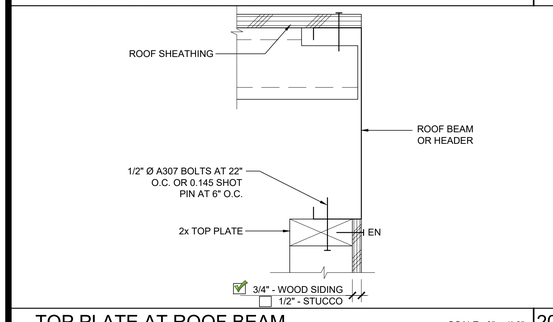


SECTION AT SHEATHING TO STUD ATTACHMENT SCALE : 3"=1'-0" 9

COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING					4" CORNER OF WOOD WALL FRAMING (ZONE 5)				
		NUMBER	SIZE	LUMBER	TYPE	OC	NUMBER	SIZE	LUMBER	TYPE	OC
LESS THAN 9'-6"	NO PLASTER	(1)	2X4	HF	#2	16" OC	(1)	2X4	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	16" OC
	PLASTER	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	10" OC
9'-6" TO 10'-6"	NO PLASTER	(1)	2X4	HF	#2	16" OC	(1)	2X4	HF	#2	12" OC
	NO PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	16" OC

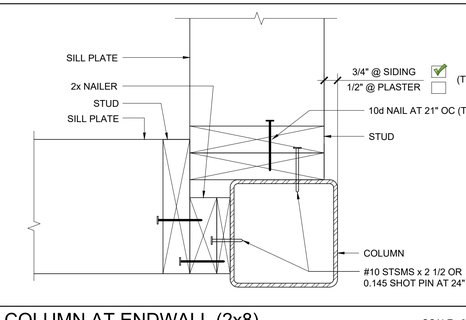
2x4 OPENING STUDS SCHEDULE 4

NOTES:
1. 2X4 WALL FRAMING NOT PERMITTED FOR STUCCO FINISH WALLS OVER 9'-0" TALL
2. 2X4 EXTERIOR WALL FRAMING IS ONLY PERMITTED AT UNCONDITIONED RESTROOM MODULES
3. 2X4 INTERIOR WALLS SHALL BE HF #2 (OR BETTER) AND SHALL BE SPACED NOT MORE THAN 24" OC MAX



TOP PLATE AT ROOF BEAM SCALE : 3" = 1'-0" 20

NOT USED 15



COLUMN AT ENDWALL (2x8) SCALE : 3"=1'-0" 10

2x4 WALL FRAMING SCHEDULE 5

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DIV. OF THE STATE ARCHITECT
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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

WALL FRAMING DETAILS
WOOD STUDS

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

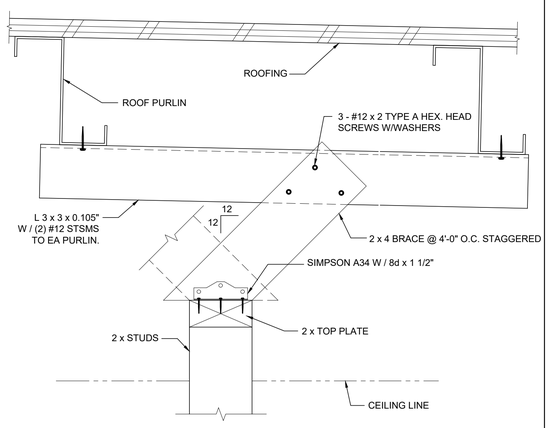
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

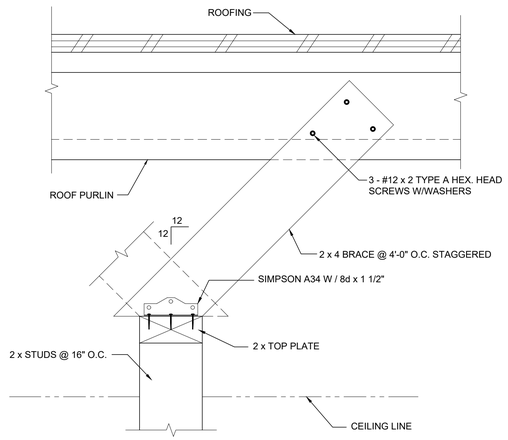
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

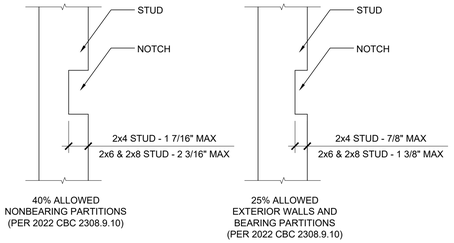
P.C. SHEET NUMBER
S-5.10

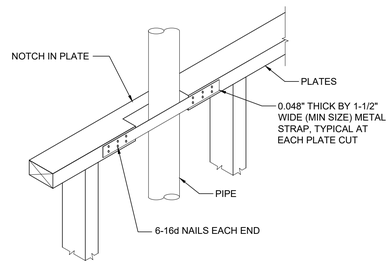


INTERIOR PARTITION — SCALE : 3" = 1'-0" — 14

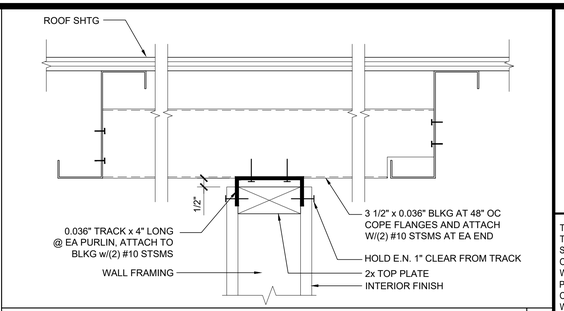


INTERIOR PARTITION — SCALE : 3" = 1'-0" — 12

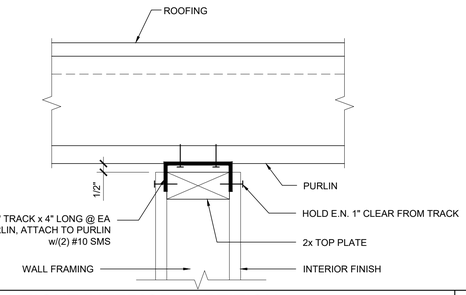




CUTTING AND NOTCHING — SCALE : 1 1/2" = 1'-0" — 7



FULL HEIGHT INTERIOR PARTITION — SCALE : 3" = 1'-0" — 1



FULL HEIGHT INTERIOR PARTITION — SCALE : 3" = 1'-0" — 2

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE
UP TO 10'-6"	3070	ANY	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		ANY (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
	4070	ANY	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		ANY (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
	6040	ANY	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		ANY (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
	8040	ANY	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		ANY (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2

2x6 OPENING STUDS SCHEDULE — 19

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE
UP TO 10'-6"	3070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	4070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	6040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
	8040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2

2x8 OPENING STUDS SCHEDULE — 14

COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING					4" CORNER OF WOOD WALL FRAMING (ZONE 5)				
		NUMBER	SIZE	LUMBER	TYPE	OC	NUMBER	SIZE	LUMBER	TYPE	OC
UP TO 10'-6"	NO PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
	W/ PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC

NOTE:
1. INTERIOR WALLS MAY BE 2x6 HF #2 (OR BETTER) SPACED AT NOT MORE THAN 24" OC.

2x6 WALL FRAMING SCHEDULE — 20

COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING					4" CORNER OF WOOD WALL FRAMING (ZONE 5)				
		NUMBER	SIZE	LUMBER	TYPE	OC	NUMBER	SIZE	LUMBER	TYPE	OC
UP TO 10'-6"	NO PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC
	W/ PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC

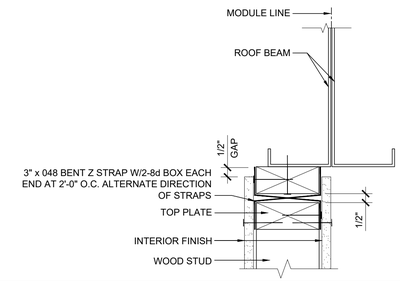
NOTES:
1. EXTERIOR STUD SPACING SHOWN IN THE TABLE ABOVE IS TYPICAL, HOWEVER, 2x8 STUDS (HF #2 OR BETTER) MAY BE SPACED AT NOT MORE THAN 24" OC.
2. INTERIOR WALLS MAY BE 2x6 HF #2 (OR BETTER) SPACED AT NOT MORE THAN 24" OC.

2x8 WALL FRAMING SCHEDULE — 15

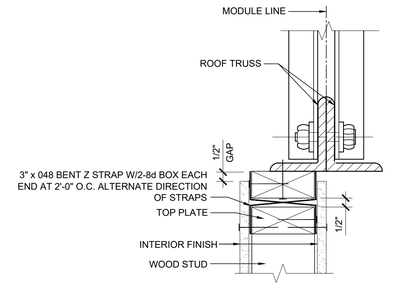
BORED HOLES — SCALE : 1 1/2" = 1'-0" — 8

NOT USED — 9

NOT USED — 10



INTERIOR PARTITION WALL TO ROOF BEAM — SCALE : 3"=1'-0" — 3



INTERIOR PARTITION WALL TO ROOF TRUSS — SCALE : 3"=1'-0" — 4

NOT USED — 5

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APP: 04-125701 INC:
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DATE: 10/28/2026

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PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

WALL FRAMING DETAILS
WOOD STUDS

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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APP: 04-121999 INC:
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DATE: 08/31/2023~~

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

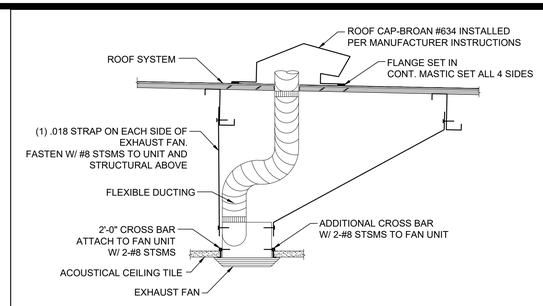
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

S-5.11

LEGEND

SYMBOL	ABB.	DESCRIPTION
	SAD	SUPPLY AIR DUCT
	RAD	RETURN AIR DUCT
	EAD	EXHAUST AIR DUCT
	(L)	LINED DUCTWORK
	CD	SUPPLY CEILING DIFFUSER
	CR	RETURN CEILING REGISTER
	ER	EXHAUST CEILING REGISTER
	VTR	VENT THRU ROOF
	FD	FIRE DAMPER
	MVD	MANUAL VOLUME DAMPER
UC	UC	UNDERCUT DOOR
T	STAT	THERMOSTAT
BT	BT	BYPASS TIMER
	P.O.C	POINT OF CONNECTION
CO		CO^2 SENSOR



EXHAUST FAN INSTALLATION

SCALE : 1"=1'-0"

MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPOORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.C

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRAVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

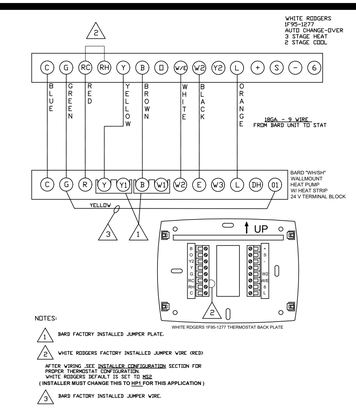
PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION QUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF THE DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐MD☒PP☐E☐OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐MD☐PP☐E☐OPTION 2: SHALL COMPLY WITH HCAI PREAPPROVAL (OPM #) #----------.

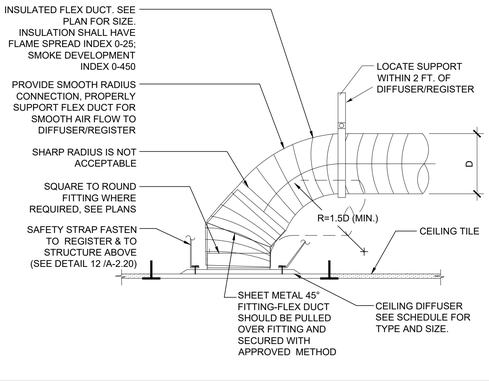


NOTES:

1. BARD FACTORY INSTALLED JUMPER PLATE.
2. WHITE RODGERS FACTORY INSTALLED JUMPER WIRE (RED)
   AFTER WIRING, SEE INSTALLER CONFIGURATION SECTION FOR PROPER THERMOSTAT SETTINGS.
   (INSTALLER MUST CHANGE O/B SWITCH FROM O TO B)
   (INSTALLER MUST CHANGE THIS TO HP/L FOR THIS APPLICATION)
3. BARD FACTORY INSTALLED JUMPER WIRE.

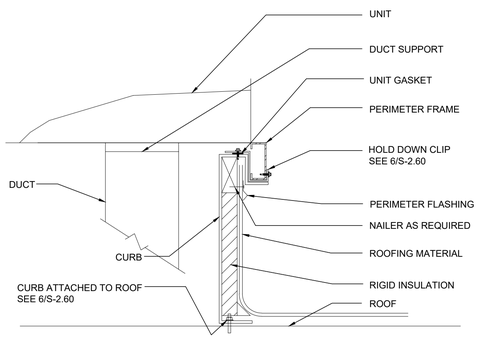
UNIT TO THERMOSTAT WIRING

SCALE: NONE — A



RETURN CEILING DIFFUSER MOUNTING

SCALE: NONE — B



A/C UNIT MOUNTING

SCALE: NONE — C

CEILING MOUNTED EXHAUST FAN SCHEDULE

SYM.	LOCATION	SERVICE	MANUF.	MODEL	CFM	SONES	SP	ELECTRICAL VOLTS	Ø	POWER	WGT.	REMARKS
EF 1	CEILING	TOILET EXHAUST	BROAN *	L100	109	1.0	0.25	120	1	87 WATTS	22.80 LBS.	WITH BROAN ROOF CAP #634. PROVIDE 6" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF 2	CEILING	TOILET EXHAUST	BROAN *	L200	210	2.0	0.25	120	1	127 WATTS	23.0 LBS.	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF 3	CEILING	TOILET EXHAUST	BROAN *	L300	308	2.8	0.25	120	1	212 WATTS	23.10 LBS.	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.

* OR APPROVED EQUAL.

PERFORATED FACE GRILLE SCHEDULE (SUPPLY)

ITEM	NECK SIZE	RANGE CFM	MFG & MODEL #
T-BAR SUPPLY 16X16-4W	6"Ø	0 - 150	Fixed Curve Blade, 4-way throw
	8"Ø	150 - 230	For lay-in T-bar ceilings use Harth & Cooley SD-9419 . (Sizes as shown on Mech Plan)
	10"Ø	230 - 350	
	12"Ø	350 - 460	
	14"Ø	460 - 640	

PERFORATED FACE GRILLE SCHEDULE (RETURN)

ITEM	NECK SIZE	RANGE CFM	MFG & MODEL #
T-BAR RETURN	6"Ø	0 - 230	Perforated face
	10"Ø	230 - 460	For lay-in T-bar ceilings use Shoemaker 105P with 24 ga., 45 deg. angle. (Sizes as shown on Mech Plan.)
	14"Ø	460 - 710	

TABLE 140.4-E AIR ECONOMIZER HIGH LIMIT SHUT OFF CONTROL REQUIREMENTS

Device Type*	Climate Zones	Required High Limit (Economizer Off When): Equation[b]	Description
Fixed Dry Bulb	1, 3, 5, 11-16	$T_{OA} > 75°F$	Outdoor air temperature exceeds 75°F
	2, 4, 10	$T_{OA} > 73°F$	Outdoor air temperature exceeds 73°F
	6, 8, 9	$T_{OA} > 71°F$	Outdoor air temperature exceeds 71°F
	7	$T_{OA} > 69°F$	Outdoor air temperature exceeds 69°F
Differential Dry Bulb	1, 3, 5, 11-16	$T_{OA} > T_{RA}°F$	Outdoor air temperature exceeds return air temperature
	2, 4, 10	$T_{OA} > T_{RA}-2°F$	Outdoor air temperature exceeds return air temperature minus 2°F
	6, 8, 9	$T_{OA} > T_{RA}-4°F$	Outdoor air temperature exceeds return air temperature minus 4°F
	7	$T_{OA} > T_{RA}-6°F$	Outdoor air temperature exceeds return air temperature minus 6°F
Fixed Enthalpy[c] + Fixed Drybulb	All	$h_{OA} > 28$ Btu/lb[c] or $T_{OA} > 75°F$	Outdoor air enthalpy exceeds 28 Btu/lb of dry air[c] or Outdoor air temperature exceeds 75°F

* Only the high limit control devices listed are allowed to be used and at the setpoints listed. Others such as Dew Point, Fixed Enthalpy, Electronic Enthalpy, and Differential Enthalpy Controls, may not be used in any Climate Zone for compliance with Section 140.4(e)1 unless approval for use is provided by the Energy Commission Executive Director.

[b] Devices with selectable (rather than adjustable) setpoints shall be capable of being set to within 2°F and 2 Btu/lb of the setpoint listed.

[c] At altitudes substantially different than sea level, the Fixed Enthalpy limit value shall be set to the enthalpy value at 75°F and 50% relative humidity. As an example, at approximately 6,000 foot elevation, the fixed enthalpy limit is approximately 30.7 Btu/lb.

Heat Pump Sequence of Operations

Description:
Constant Volume Unit, DX cooling and heating, and outside air economizer.

General:
Each unit shall be directly controlled and monitored by a programmable logic Thermostat Controller.

1. **Required Algorithms and Schedules:**
   Time Schedule
   Setpoint Schedule (temperature)
2. **Occupancy Status:**
   The occupancy status is determined by an occupancy sensor.
3. **Demand Control Ventilation:**
   The indoor CO2 concentration is monitored with a sensor in each room.

Sequence of Operation during Occupied Hours:

1. **Supply Fan Control Mode:**
   The supply fan will operate:
   A. During scheduled hours.
   B. When occupancy is detected.
2. **Economizer Control Mode:**
   The outside air damper will be wired through an interposing relay and interlocked to the supply fan. When the supply fan is operating the economizer damper will be set to the default position except where:
   A. The demand control ventilation system determines that the CO2 concentrations can reduce the outside air rate.
   B. During cooling mode when the outside air temperature sensor indicates that the damper position may be adjusted to increase the outside air rate.
3. **Operating Mode:**
   The thermostat shall be programmed to Auto Mode. When Auto Mode is active, the thermostat algorithm will automatically select either a heating or cooling mode based on the present space temperature value.
4. **Heating Mode:** The heating stages will be energized when the fan is running, the operating mode is auto, and the space temperature is below the occupied heating setpoint. The heating stages will be de-energized as the space temperature achieves the heating setpoint.
5. **Cooling Mode:** The cooling stages will be energized when the fan is running, the operating mode is auto, and the space temperature is above the occupied cooling setpoint. The cooling stages will be de-energized as the space temperature achieves the cooling setpoint.

Sequence of Operation during Unoccupied Hours:

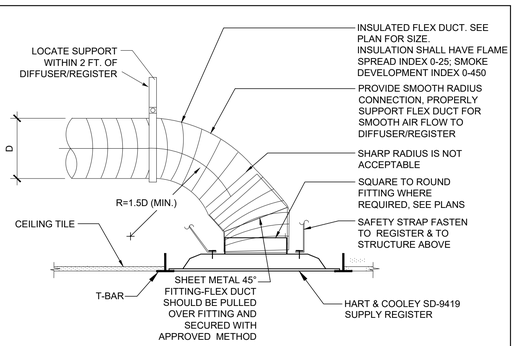
1. **Supply Fan:**
   The fan will be cycled on if the space temperature is outside the heating and cooling unoccupied set points.
2. **Economizer Control:**
   The outside air damper will be wired through an interposing relay and interlocked to the supply fan. When the supply fan is on, the dampers are forced to the minimum position. When the supply fan is off, the damper will close.
3. **Pre-Occupancy Purge**
   In the hour prior to scheduled normal occupancy the supply fan shall operate for a duration sufficient in length to provide not less than 3 complete air changes.

DUCT NOTES:

1. ALL DUCTING SHALL BE INSULATED WITH MIN OF R-4.2.
2. DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
3. HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4 FT INTERVALS, WITH HANGING STRAPS A MINIMUM 1 1/2" WIDE.
4. DUCTS MUST BE PULLED TIGHT WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN.
5. DUCT SHALL NOT BE KINKED OR CRUSHED.
6. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.

GENERAL NOTES:

1. THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMES.
2. AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES.
3. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED PER ENERGY CODE 120.1(D)1.
4. ECONOMIZERS SHALL BE PROGRAMMED FOR HIGH LIMIT SHUT OFF PER TABLE 140.4-E.
5. THE OUTDOOR AIR C02 CONCENTRATION SHALL BE ASSUMED TO BE 400 ppm.

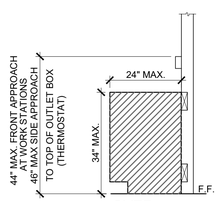


T-BAR SUPPLY REGISTER AND SIDE OUTLET BOX DETAIL

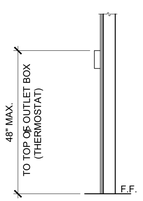
N.T.S.

SUPPLY CEILING DIFFUSER MOUNTING

SCALE: NONE — D



OVER OBSTRUCTION



MOUNTING HEIGHTS

△ PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

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PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

MECHANICAL NOTES, SCHEDULES, & DETAILS

REVISIONS

1.
2.
3.
4.
5.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

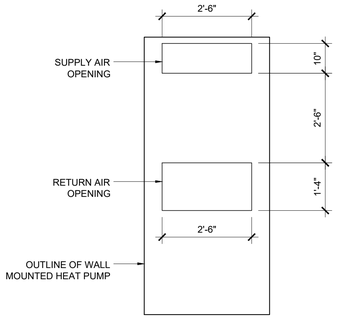
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29075 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

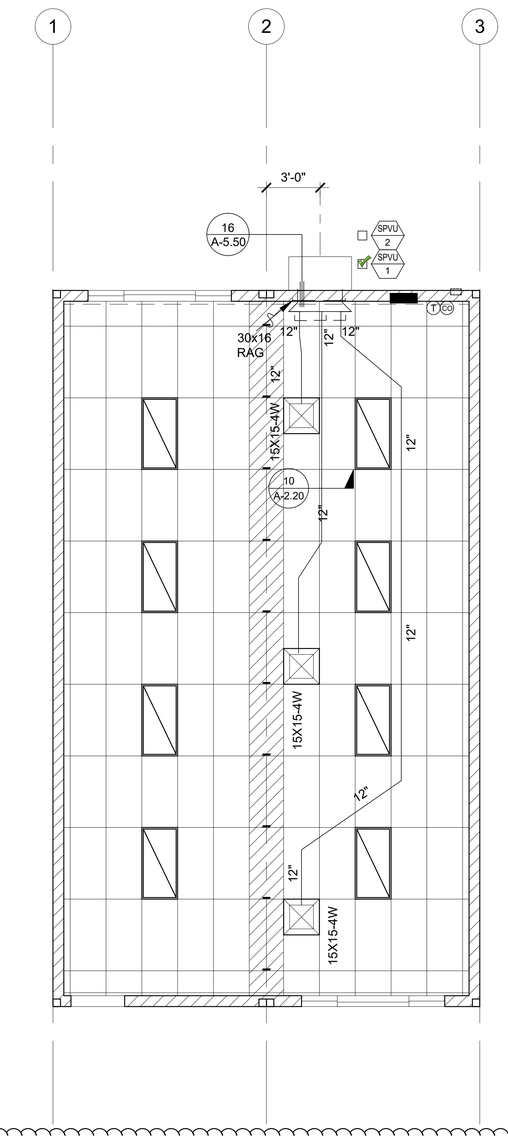
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

M-0.1



WALL MOUNTED HEAT PUMP DIAGRAM	SCALE	A
	NONE	



@ CLASSROOMS 11, 13 & 15
MIRROR @ 12, 14 & 16

WALL MOUNTED MECHANICAL EQUIPMENT SCHEDULE			
	SPVU-1	SPVU-2	
HVAC Equipment	BARD	BARD	
Make and Model	#W60HC-A00VN	#T60S1-A00VN	
Nominal Tonnage	5	5	
BTUH:			
Heating	52,500	56,000	
Cooling	54,500	52,000	
Indoor/Blower Fan:			
BHP/HP	0.75/0.75	0.75/0.75	
CFM	1,750	1,650	
Strip Heating	NA	NA	
SEER	NA	NA	
EER	11.0	11.0	
HSPF	NA	NA	
COP	3.3	3.3	
Voltage	230/208-1	230/208-1	
MCA	42	45	
MCOP	60	60	
Wire Size (Pwr/ Grnd)	8 / 10	8 / 10	
Thermostat:			
Make and Model	Venstar #T4900SCH	Venstar #T4900SCH	
Setback	Yes	Yes	
Heat Pumps	Yes	Yes	
Shut-off and Reset:	Occupancy Sensor	Occupancy Sensor	
Economizer:			
Make and Model	Integrated	Integrated	
Controls	Fixed Dry Bulb	Fixed Dry Bulb	
Fault Detection	Yes	Yes	
Outside Air Damper Position	Varies	Varies	
Demand Control Ventilation	Yes	Yes	
Minimum DCV Outside Air in CFM	0.15 CFM / SF	0.15 CFM / SF	
Minimum Designed Outside Air in CFM	See Below	See Below	
Demand Shed Thermostat	NA	NA	
Operating Weight	595 #	660 #	

NOTES:
PROVIDE SET-BACK THERMOSTAT.
DESIGNED MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT
PROVIDE AN OCCUPANCY SENSOR WITH AN AUTOMATIC SHUT DOWN CONTROLS
PROVIDE 2" MERV 13 FILTER
AIR HANDLERS WITH OTHER VOLTAGES SHALL BE ACCEPTABLE.
AIR HANDLERS OTHER THAN THE MAKE AND MODEL LISTED ABOVE SHALL BE ACCEPTABLE WHEN THE NOMINAL TONNAGE IS EQUAL TO THE INDICATED TONNAGE AND THE EER AND COP VALUES ARE NO LESS THAN THOSE SHOWN ABOVE.
PROVIDE A C02 SENSOR WITH LCD DISPLAY (CARROER #33ZCSPT02LCD-01 or EQUAL) ADJACENT TO THE THERMOSTAT MOUNTED AT + 48" AFF.
PROVIDE A HONEYWELL JADE CONTROL SYSTEM (or EQUAL) CAPABLE OF OUTPUTTING FDD ALARMS TO THE THEMOSTAT PER ENERGY CODE SECTION 120.2(j).
ECONOMIZERS SHALL HAVE AN INTEGRATED BARAMETRIC DAMPER OR OTHER MEANS OF EXHAUSTING THE BUILDING WHEN THE SYSTEM IS DELIVERING 100% OUTSIDE AIR.

MECHANICAL EQUIPMENT SCHEDULE

NOTE:
THIS MECHANICAL SYSTEM SHALL PROVIDE A MINIMUM OUTSIDE AIR RATE OF 0.38 CFM / SF OR 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY THE EXPECTED OCCUPANT LOAD WITH THE SCHOOL DISTRICT PRIOR TO SELECTION OF THE MECHANICAL EQUIPMENT. THE SELECTED EQUIPMENT SHALL BE CAPABLE OF MEETING THE OUTSIDE AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING WILL BE LOCATED. AT THE TIME OF OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO THE BUILDING OWNER A CALCULATION INDICATING THE VOLUMES OF OUTSIDE AIR AND OF RECIRCULATED AIR THAT THE VENTILATION SYSTEM HAS BEEN DESIGNED TO PROVIDE.

VENTILATION CALCULATIONS:

24' X 40' CLASSROOM

MINIMUM REQUIRED VENTILATION
ROOM AREA = 960 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 960 X 0.38 = 365 CFM

VENTILATION AS DESIGNED
BUILDING AREA = 960 SF
OCCUPANCY FOR EGRESS PURPOSES = 960 / 20 = 48 OCCUPANTS
EXPECTED # OF OCCUPANTS = 48 OCCUPANTS X 0.65 = 31 OCCUPANTS
REQUIRED VENTILATION RATE = 15 CFM / OCCUPANT
REQUIRED OUTSIDE AIR VOLUME = 31 X 15 = 465 CFM

NOTE:
THE DEMAND CONTROL VENTILLATION SYSTEM SHALL NOT BE REQUIRED TO PROVIDE THE OUTSIDE AIR IN EXCESS OF THE DESIGNED VOLUME INDICATED ABOVE.. THE DEMAND CONTROL VENTILLATION SYSTEM SHALL NOT REDUCE THE OUTSIDE AIR TO LESS THAN 25% OF THE DESIGNED VOLUME INDICATED ABOVE.

NOTE:
BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER, AT OCCUPANCY, OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS, AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF THE MECHANICAL AND LIGHTING SYSTEMS.

NOTE:
THE OCCUPANCY SENSOR USED TO CONTROL THE HVAC EQUIPMENT SHALL BE SEPARATE FROM THE OCCUPANCY SENSOR USED TO CONTROL THE LIGHTING SYSTEM. THIS SENSOR MAY BE INTEGRATED INTO THE THERMOSTAT OR MAY BE A SEPARATE DEVICE.

MECHANICAL PLAN - STANDARD 4 LIGHT CONFIGURATION
SCALE: 1/4" = 1'-0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

GRANITE HILLS
(6) 24' x 40'
CLASSROOM BLDGS

SHEET TITLE:

MECHANICAL PLAN
WALL MOUNT
24' x 40'

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
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IDENTIFICATION STAMP
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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

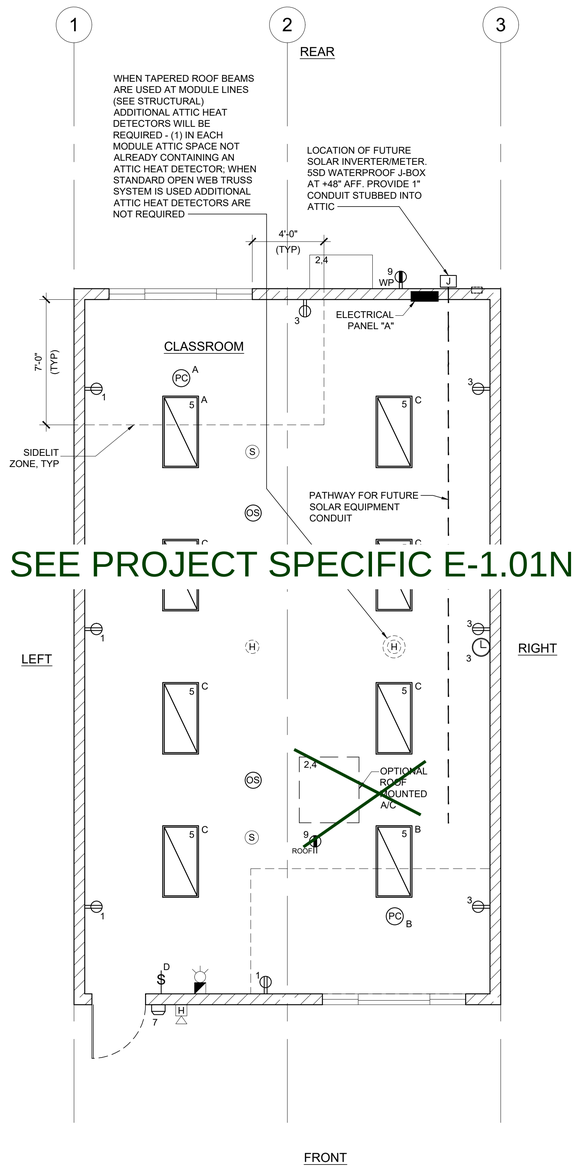
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
29575
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES 24' x 40' PC	
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER
M-1.01



SEE PROJECT SPECIFIC E-1.01N

ELECTRICAL PLAN

SCALE: 1/4" = 1'-0" | 4

ELECTRICAL PANEL

VOLTS: 120/208 V | PANEL: WALL MOUNTED HVAC | FEED: REAR
MAIN: 100 A | LOCATION: INTERIOR ACCESS | MOUNTING: FLUSH

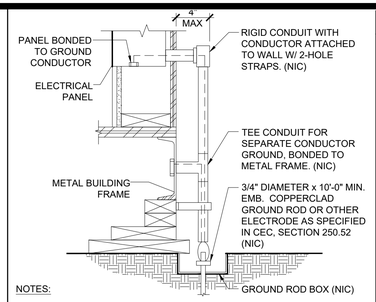
LOAD	QTY	WATTS AØ	WATTS BØ	BREAKER Amps	BREAKER P	Circuit	A	B	Circuit	BREAKER Amps	BREAKER P	WATTS AØ	WATTS BØ	QTY	LOAD
RECEPTACLES	4	720		20	1	1			2	60	2	4830		1	HVAC - WALL MOUNT
RECEPTACLES/CLOCK															
INTERIOR LIGHTING															
EXTERIOR LIGHTING															
WALL RECEPTACLE (GFI)	1	180		20	1	9			10						
DED - SOLAR READY						11			12	20	1		40		FIRE ALARM CONTROL PANEL (FIRE ALARM NOTE #2)
DED - SOLAR READY						13			14						
A = 6690 WATTS / PHASE		1860	940									4830	4870		B = 5810 WATTS / PHASE
TOTAL = 12,500 WATTS		61 AMPS		120/208 VOLTS		1 Ø						3 WIRE			

SEE PROJECT SPECIFIC E-1.01N

ELECTRICAL PANEL

VOLTS: 120/208 V | PANEL: "A" ROOF MOUNTED HVAC | FEED: REAR
MAIN: 100 A | LOCATION: INTERIOR ACCESS | MOUNTING: RECESSED

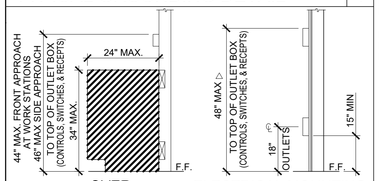
LOAD	QTY	WATTS AØ	WATTS BØ	BREAKER Amps	BREAKER P	Circuit	A	B	Circuit	BREAKER Amps	BREAKER P	WATTS AØ	WATTS BØ	QTY	LOAD
RECEPTACLES	4	720		20	1	1			2	60	2	4542		1	HVAC - ROOF MOUNT
RECEPTACLES/CLOCK	5		900	20	1	3			4	-	-		4542		-
INTERIOR LIGHTING	8	960		20	1	5			6						
EXTERIOR LIGHTING	1		40	20	1	7			8						
ROOF RECEPTACLE (GFI)	1	180		20	1	9			10						
DED - SOLAR READY						11			12	20	1		40		FIRE ALARM CONTROL PANEL (FIRE ALARM NOTE #2)
DED - SOLAR READY						13			14						
A = 6402 WATTS / PHASE		1860	940									4542	4582		B = 5522 WATTS / PHASE
TOTAL = 11,924 WATTS		57 AMPS		120/208 VOLTS		1 Ø						3 WIRE			

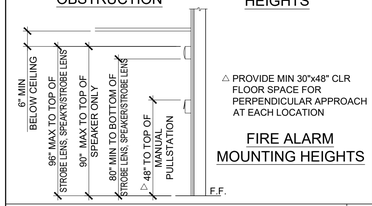


NOTES:

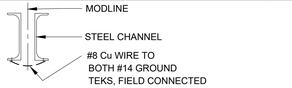
1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
4. ALL MODULES OF METAL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP.
5. CHECK RESISTANT TO GROUND ROD, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).

TYPICAL GROUNDING DETAIL | 1





ACCESSIBLE HEIGHTS | 2



GROUND JUMPER AT MODLINE | 3

GROUND JUMPER AT MODLINE

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREES FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL).

TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCES TO 25 OHMS OR LESS. (BY SITE ELECTRICAL).

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

FIRE ALARM NOTES

1. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72 SECTION 10.6.5.2

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL. IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATES RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 & 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPA FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP☐ MD☐ PP☐ E☑ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

LIGHTING CONTROL SYSTEM SEQUENCE OF OPERATIONS

THE LIGHTING CONTROL SYSTEM BASIS OF DESIGN SHALL BE THE LUTRON VIVE WIRELESS LIGHTING CONTROL SYSTEM.
THE SYSTEM SHALL BE CAPABLE OF PROVIDING MANUAL CONTROL, OCCUPANCY SENSING CONTROL AND DAYLIGHT HARVESTING CONTROL.

SEQUENCE:

OCCUPANT ENTERS:
ALL LIGHTS AUTOMATICALLY TURN ON TO 50% LIGHT LEVEL. OCCUPANT MAY INCREASE LIGHTS TO MAXIMUM LEVEL MANUALLY WITH WALL CONTROL.
WHEN OCCUPIED:
LIGHTING IN DAYLIT ZONES AUTOMATICALLY DIM/BRIGHTEN BASED ON DAYLIGHT AVAILABILITY.
OCCUPANT MAY MANUALLY DIM/BRIGHTEN THE LIGHTS WITH WALL CONTROL.
OCCUPANT EXITS:
ALL LIGHTS AUTOMATICALLY TURN OFF 15 MINUTES AFTER VACANCY.

CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 90°C. COPPER)

WIRE SIZE	CAPACITY	WIRE TYPE	NO. OF CONDUCTOR PERMITTED 1/2" C	3/4" C	1" C	1 1/4" C
#12	20A	THHN	9	16	25	45
#10	30A	THHN	5	10	16	28
#8	45A	THHN	2	5	8	14
#6	65A	THHN	1	3	5	10
#4	85A	THHN	1	2	4	7

JUNCTION BOX SIZE TABLE

BOX	SIZE	CU. IN.	MAX NO. OF CONDUCTORS #12	#10	#8	#6
4SS	1 1/4" x 4" SQ	18.0	8	7	6	0
4S	1 1/2" x 4" SQ	21.0	9	8	7	0
4SD	2 1/8" x 4" SQ	30.3	13	12	10	6
4SX	2 7/8" x 4" SQ	43.5	23	21	17	10
5SD	2 1/8" x 4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8" x 4-11/16" SQ	86.0	38	34	28	17
664	4" x 6" SQ	144.0	64	57	48	28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

LEGEND

- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 51 WATTS (MAX), 5000L (MIN)
- WALL MOUNTED HVAC UNIT. SEE MECHANICAL DWGS
- ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS
- ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT (U.N.O.)
- (OS) CEILING MOUNTED OCCUPANCY SENSOR
- (PC) CEILING MOUNTED PHOTOCELL
- (US) ULTRASONIC CEILING OCCUPANCY SENSOR. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.
- WS-1 SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF
- $D DIMMER SWITCH, AT +48" AFF. TO TOP OF OUTLET BOX
- $ LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $3 3-WAY LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $K KEYED SWITCH MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE
- WP EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24 " AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)
- GFI GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS
- ROOF ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
- EM EXTERIOR LED LIGHT FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP WHEN 'EM' IS DESIGNATED NEXT TO FIXTURE W/ PHOTOCELL W/ 30w MAX. MOUNT AT +93" AFF
- (L) CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE
- EXIT EXIT SIGN WITH 90 MIN. BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. CLASSROOMS WITH ONE EXTERIOR DOOR - OPTIONAL)
- 4SD J-BOX FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF OUTLET BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULL STRING
- 4SD J-BOX FOR FIRE ALARM STROBE OR VOICE EVAC SPEAKER (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 80" AND 96" AFF AND WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULL STRING
- (H) 4SD J-BOX FOR EXTERIOR FIRE ALARM SPEAKER (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULL STRING
- RECESSED 4SD J-BOX W / COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULL STRING
- (S) 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- (H) 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- WH 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT
- 100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 300 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 51 WATTS (MAX), 5000L (MIN) EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE EQUIPPED WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.
- WALL MOUNTED LIGHT FIXTURE, 30 WATTS
- 4SD J-BOX FOR FUTURE DATA W/ SINGLE GANG RING W/ 1" CO STUB INTO ATTIC AND PULL STRING
- FS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER FLOW SWITCH.
- TS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER TAMPER SWITCH.
- (B) DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER BELL.

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

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DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

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PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

ELECTRICAL PLAN AND SCHEDULE 24' x 40'

REVISIONS

1.
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PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

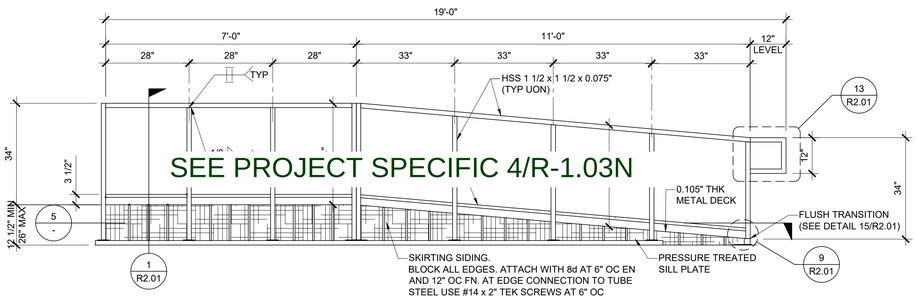
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24675 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

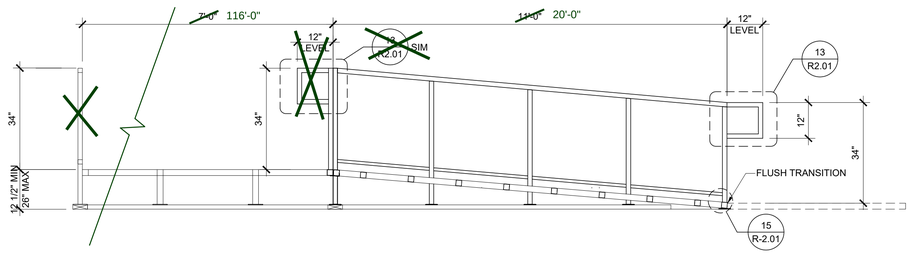
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
E-1.01



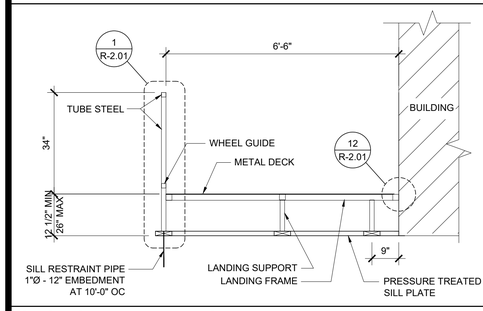
RAMP AND LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 4



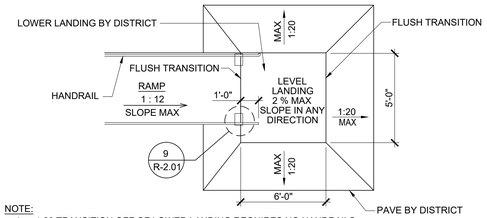
SECTION AT RAMP AND LANDING

SCALE : 1/2" = 1'-0" | 5



SECTION AT LANDING

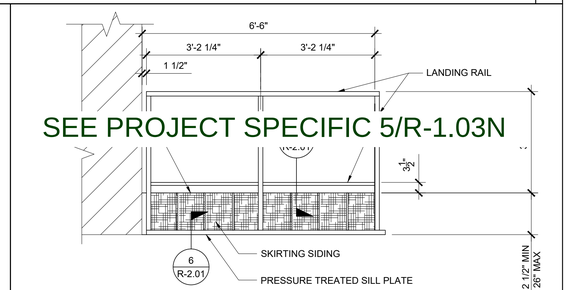
SCALE : 1/2" = 1'-0" | 9



NOTE:
1. 1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAILS.
2. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING BY DISTRICT.
(THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMONSTRATE ACCESSIBLE RAMP.)

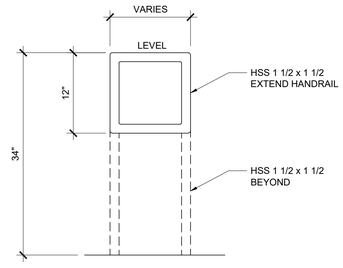
RAMP TRANSITION

SCALE: NTS | 10



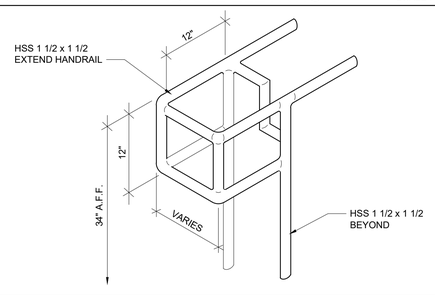
LANDING ELEVATION

SCALE : 1/2" = 1'-0" | 6



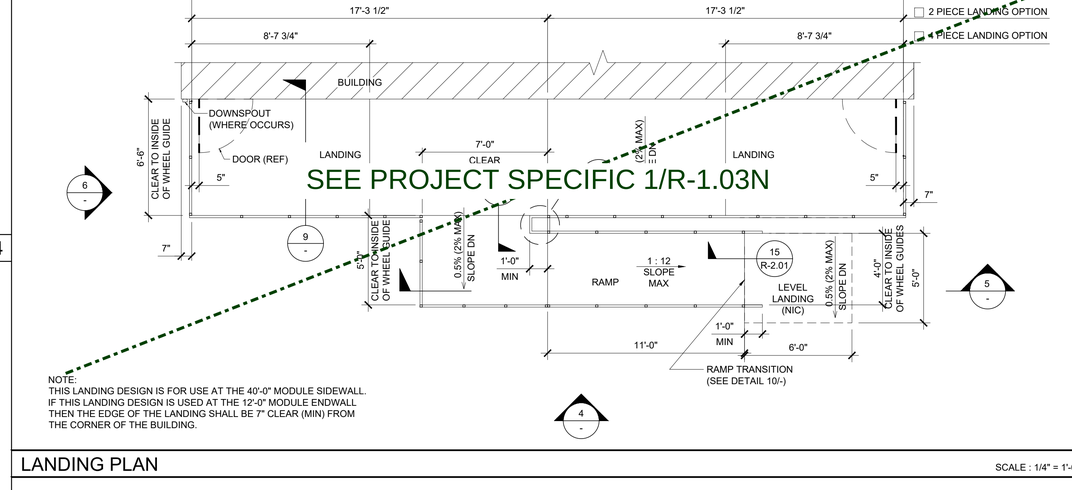
RETURN EXTEND HANDRAIL ELEVATION

SCALE : 1" = 1'-0" | 7



RETURN EXTEND HANDRAIL ISOMETRIC

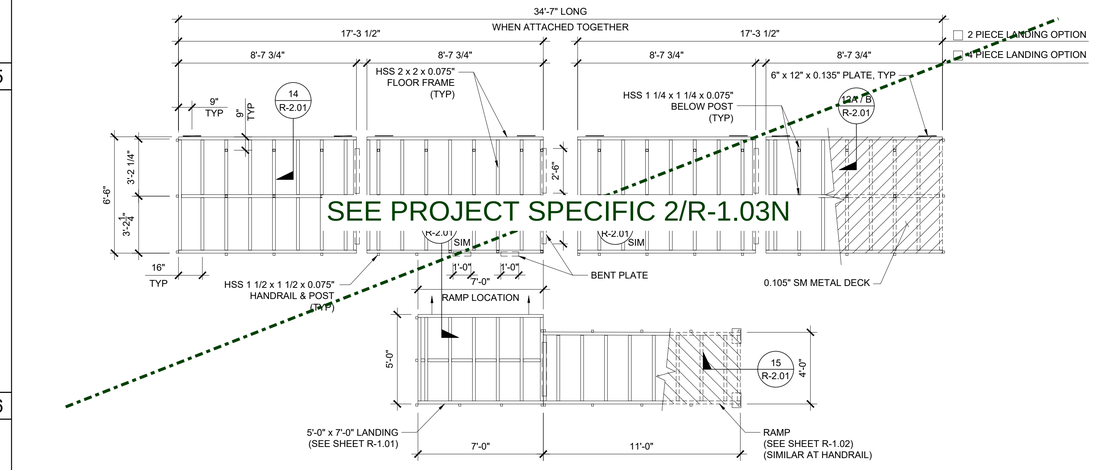
SCALE : NTS | 8



NOTE:
THIS LANDING DESIGN IS FOR USE AT THE 40'-0" MODULE SIDEWALL.
IF THIS LANDING DESIGN IS USED AT THE 12'-0" MODULE ENDWALL THEN THE EDGE OF THE LANDING SHALL BE 7" CLEAR (MIN) FROM THE CORNER OF THE BUILDING.

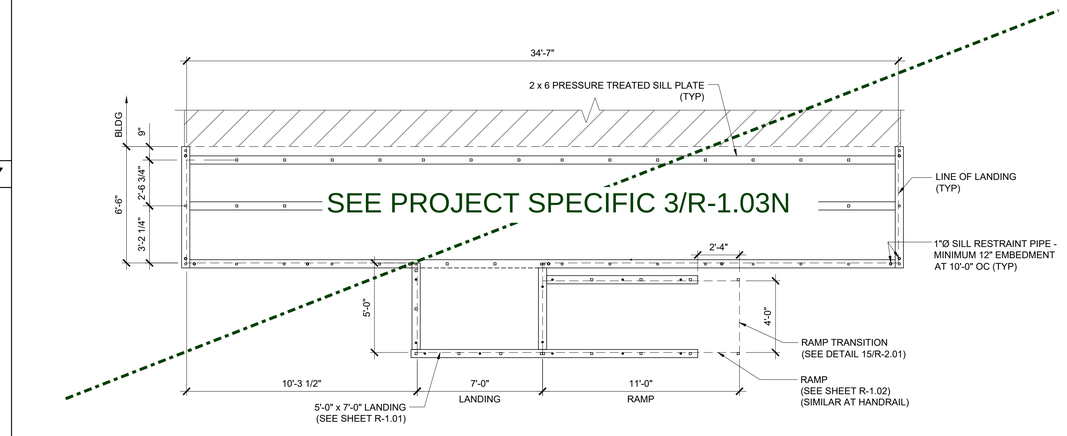
LANDING PLAN

SCALE : 1/4" = 1'-0" | 1



LANDING FRAME

SCALE : 1/4" = 1'-0" | 2



SILL PLAN FOR RAMP AND LANDING

SCALE : 1/4" = 1'-0" | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-125701 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/28/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

RAMP LANDING

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

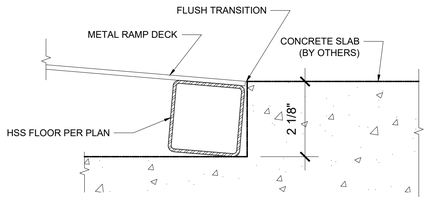
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

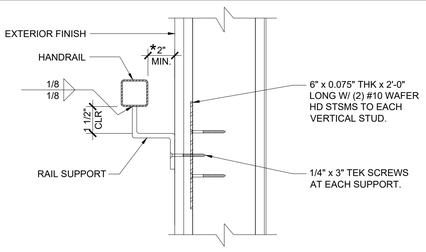
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

R-1.03

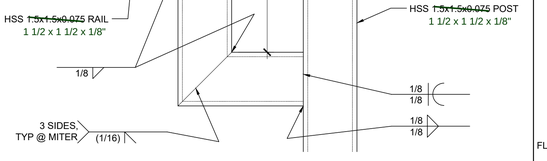


FLUSH TRANSITION AT BOTTOM OF RAMP SCALE : 6" = 1'-0" 15

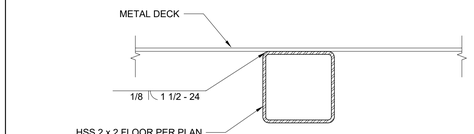


NOTE (★)
1. ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 18" ABOVE HANDRAIL

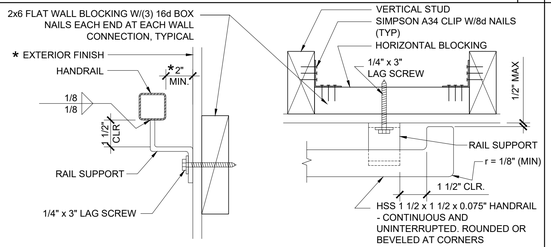
HANDRAIL CONNECTION AT SHEETMETAL BLKG SCALE : 3" = 1'-0" 16



RAIL NOTCH AT HANDRAIL SCALE : 6" = 1'-0" 17



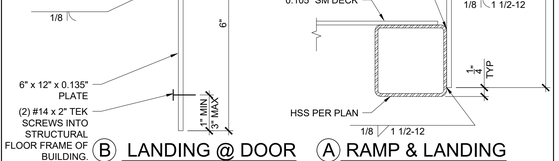
DECK TO FRAME SCALE : 6" = 1'-0" 10



SECTION A SECTION B

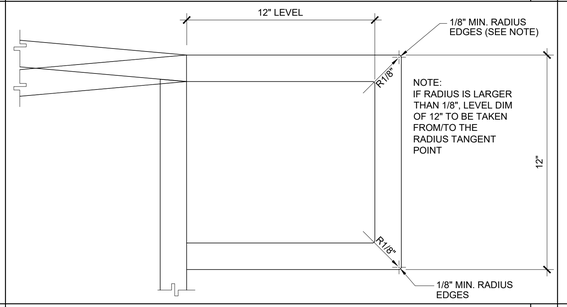
NOTE (★)
1. ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 18" ABOVE HANDRAIL

HANDRAIL CONNECTION AT WOOD BLOCKING SCALE : 3" = 1'-0" 11

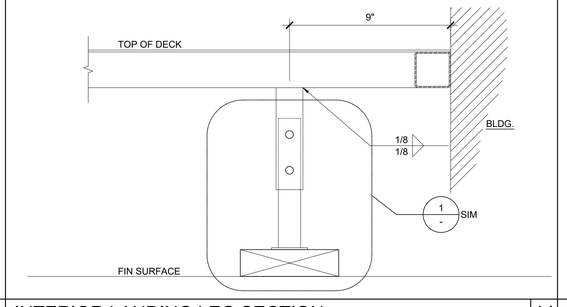


Ⓑ LANDING @ DOOR Ⓐ RAMP & LANDING

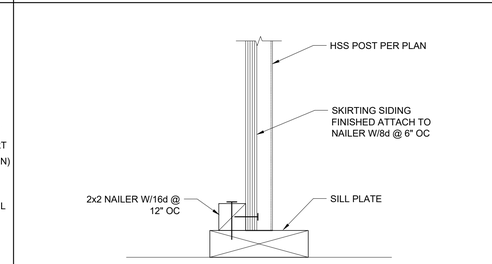
SECTION AT PLATE SCALE : 6" = 1'-0" 12



EXTEND HANDRAIL @ TOP OR BOTT. ENDS SCALE : 3" = 1'-0" 13

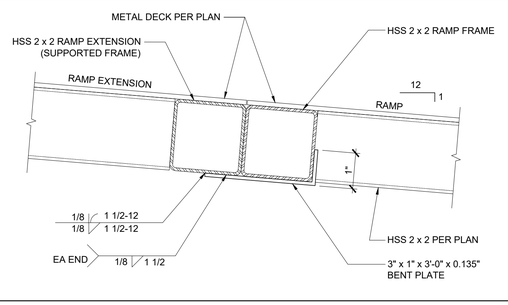


INTERIOR LANDING LEG SECTION SCALE : 3" = 1'-0" 14

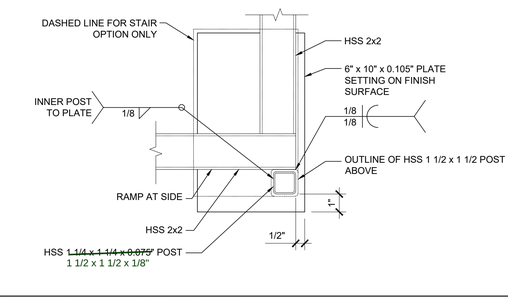


SKIRT FLASHING SCALE : 3" = 1'-0" 5

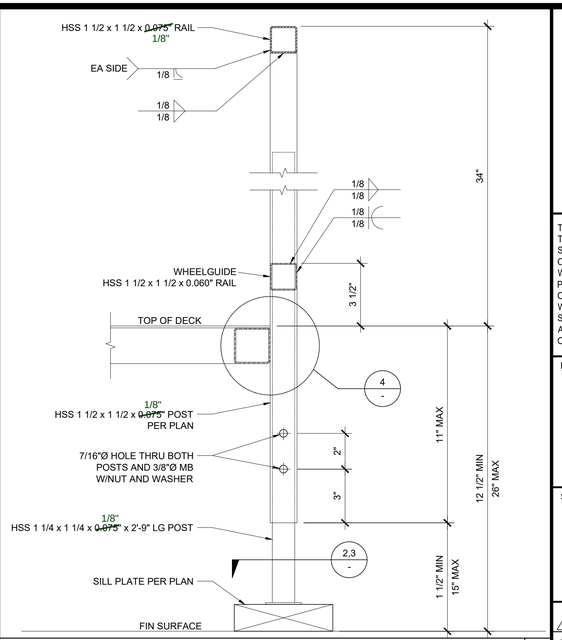
SKIRT FLASHING AT SILL PLATE SCALE : 3" = 1'-0" 6



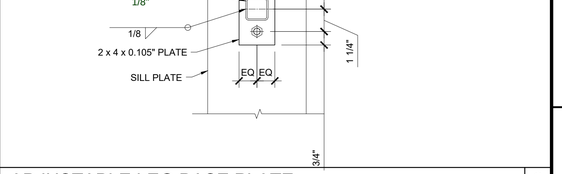
RAMP EXTENSION SCALE : 6" = 1'-0" 8



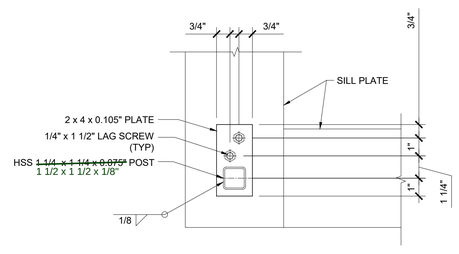
BASE PLATE AT RAMP TOE SCALE : 3" = 1'-0" 9



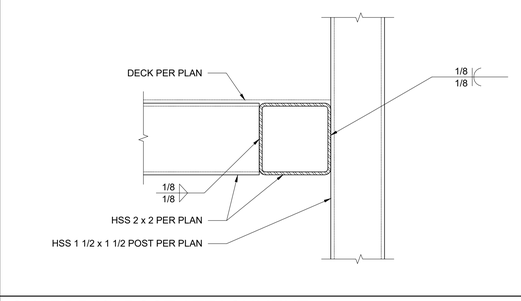
ADJUSTABLE LEG SCALE : 3" = 1'-0" 1



ADJUSTABLE LEG BASE PLATE SCALE : 3" = 1'-0" 2



ADJUSTABLE LEG BASE PLATE SCALE : 3" = 1'-0" 3



GUARDRAIL POST ATTACHMENT SCALE : 6" = 1'-0" 4

IDENTIFICATION STAMP
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PROJECT NAME:

GRANITE HILLS (6) 24' x 40' CLASSROOM BLDGS

SHEET TITLE:

RAMP DETAILS

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLA 2975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

R-2.01