JUNIPERO SERRA ES MODULAR

Modular - Project Specific

A-0.0N	♣	COVER SHEET
A-0.2N	♣	SCHEDULES
A-0.54N	♣	ENERGY CALCULATIONS
A-0.55N	♣	ENERGY CALCULATIONS
A-1.02N	♣	FLOOR PLAN
A-2.02N	♣	REFLECTED CEILING PLAN
A-3.02N	♣	ROOF PLAN
A-4.02N	♣	EXTERIOR ELEVATIONS
A-6.02N	♣	INTERIOR ELEVATIONS
F-2.11N	♣	CONCRETE FOUNDATION PLAN

Grand total: 10

PC - Architectural

A-0	♣	COVER SHEET
A-0B	♣	T & I FORMS
A-0.1	♣	SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE
A-0.2	♣	SCHEDULE
A-0.3	♣	TYPICAL KEY PLANS - 36' x 40'
A-0.51	♣	DESIGN ENERGY VALUES - CONC FLOOR - ROOF HVAC
A-0.57	♣	PRF FORMS - ZONE 36x40 - 14 WORST CASE
A-0.58	♣	PRF FORMS - ZONE 36x40 - 15 WORST CASE
A-0.59	♣	PRF FORMS - ZONE 36x40 - 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 REQ'S. ENERGY MANDATORY MEASURES & CAL GREEN SPEC'S
A-1.02	♣	FLOOR PLAN - 36' x 40'
A-2.02	♣	REFLECTED CEILING PLAN - 36' x 40'
A-2.20	♣	CEILING DETAILS - T-GRID
A-2.21	♣	CEILING DETAILS - HARD LID
A-3.02	♣	ROOF PLAN - 36' x 40' - METAL DECK - MONO SLOPE
A-3.50	♣	ROOF DETAILS - STANDING SEAM ROOF DECK
A-3.80	♣	ROOF DETIALS PARAPET
A-4.02	♣	EXTERIOR ELEVATIONS - 36' x 40' - SINGLE SLOPE
A-5.01	♣	CROSS SECT. - DUAL SLOPE
A-5.05	♣	CROSS SECTION
A-5.51	♣	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER
A-5.53	♣	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER - 1 HOUR RATED
A-5.70	♣	ARCHITECTURAL DETAILS - FLOOR
A-5.72	♣	DETERIORATION PROTECTION STUCCO FINISH W/ CONC FLOOR - WD STUD
A-5.80	♣	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-5.81	♣	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-6.02	♣	INTERIOR ELEVATIONS - 36' x 40'

PC - Foundation

F-2.11	♣	CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETE FLOOR
F-2.50	♣	CONCRETE FOUNDATION DETAILS - BELOW GRADE
F-2.51	♣	FOUNDATION DETAILS - CONCRETE

PC - Structural

S-0.1	♣	STRUCTURAL SPECIFICATIONS
S-1.11	♣	FLOOR FRAMING PLAN - CONCRETE FLOOR
S-1.60	♣	FLOOR FRAMING DETAILS - CONCRETE 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

PC - Plumbing

P-1.01	♣	PLUMBING DETAILS AND SCHEDULE

PC - Mechanical

M-0.1	♣	MECHANICAL NOTES, SCHEDULES, AND DETAILS
M-1.02	♣	MECHANICAL PLAN - WALL MOUNT - 36' x 40'

PC - Electrical

E-1.02	♣	ELECTRICAL PLAN AND SCHEDULE - 36' x 40'

Grand total: 48

TOTAL SHEET OF 89

General

A0.00		COVER SHEET
A0.01		NOTES & GENERAL INFORMATION

Civil

C1.0	♣	EXISTING CONDITIONS AND DEMOLITION PLAN
C2.0	♣	GRADING, PAVING AND UTILITY PLAN
C2.1	♣	OFF-SITE UTILITY PLAN
C3.0	♣	CIVIL DETAILS
C4.0	♣	EROSION CONTROL PLAN AND DETAILS

Architectural

A1.10		SITE PLAN - ACCESSIBILITY
A1.11		SITE PLAN - FIRE SAFETY ANALYSIS
A1.12		SITE PLAN - EGRESS ANALYSIS
A1.20		ENLARGED SITE PLAN - DEMO
A1.30		ENLARGED SITE PLAN - NEW
A1.51		FENCING DETAILS
A1.55		MISCELLANEOUS SITE DETAILS
A1.56		MISCELLANEOUS DETAILS

Electrical

E0.00	♣	ELECTRICAL TITLE SHEET
E1.10	♣	ELECTRICAL SITE PLAN
E1.30	♣	ENLARGED ELECTRICAL SITE PLAN - NEW
E7.10	♣	SINGLE LINE DIAGRAM
E9.10	♣	TECHNICAL SPECIFICATIONS
E9.11	♣	TECHNICAL SPECIFICATIONS
E9.12	♣	TECHNICAL SPECIFICATIONS
E9.13	♣	TECHNICAL SPECIFICATIONS

Fire Alarm

FA0.00	♣	FIRE ALARM TITLE SHEET
FA1.10	♣	FIRE ALARM SITE PLAN
FA1.30	♣	ENLARGED FIRE ALARM SITE PLAN - NEW
FA7.10	♣	FIRE ALARM RISER DIAGRAM
FA8.10	♣	FIRE ALARM DETAILS
FA9.10	♣	TECHNICAL SPECIFICATIONS

Grand total: 29

♣ **INDICATES DRAWINGS PREPARED BY OTHER LICENSED PROFESSIONALS. REFER TO THIS SHEET FOR "STATEMENT OF GENERAL CONFORMANCE"**

Statement of General Conformance

FOR ARCHITECTS / ENGINEERS WHO UTILIZE PLANS,

INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 01-122855 **File No.** 41-28 **)**

☒ The drawings or sheets noted in the index sheet (A0.00) with a "♣" symbol

☐ This drawing, page of specifications/calculations

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

1) design intent and appears to meet the appropriate requirements of Title 24, California Cod of Regulations and the project specifications prepared by me, and

2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. *(Title 24, Part 1, Section 4-316 (b))*

I find that: ☒ All drawings or sheets listed on the cover index sheet with a "♣" symbol ☐ This drawing or page

☒ is/are in general conformance with the project design, and	☐ is/are in general conformance with the project design, and
☒ has/have been coordinated with the project plans and specifications.	☐ has/have been coordinated with the project plans and specifications.
12-10-2025	
Signature / **Date**	**Signature** / **Date**
Architect of Engineer designated to be in general responsible charge	**Architect of Engineer designated to be in general responsible charge**
LAWRENCE EDWARD SCHADT	
Print Name	**Print Name**
C 29266 / AUGUST 31, 2027	
License Number / **Expiration Date**	**License Number** / **Expiration Date**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

GELFAND PARTNERS ARCHITECTS

165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

FILE# 41-28
APPL # 01-122855

Client

Consultants

Drawing Record

REV	DESCRIPTION	DATE
1	DSA PERMIT SET	12/10/25
2	DSA: V2	01/14/26
3	DSA: V3	01/20/26

Printed: 1/20/2026 17:31:41

Architect

LICENSED ARCHITECT
LAWRENCE EDWARD SCHADT
NO. C 29266
REN. 8-31-27
STATE OF CALIFORNIA

Project
JUNIPERO SERRA ES MODULAR

151 Victoria St.
Daly City, CA 94015

2516.00

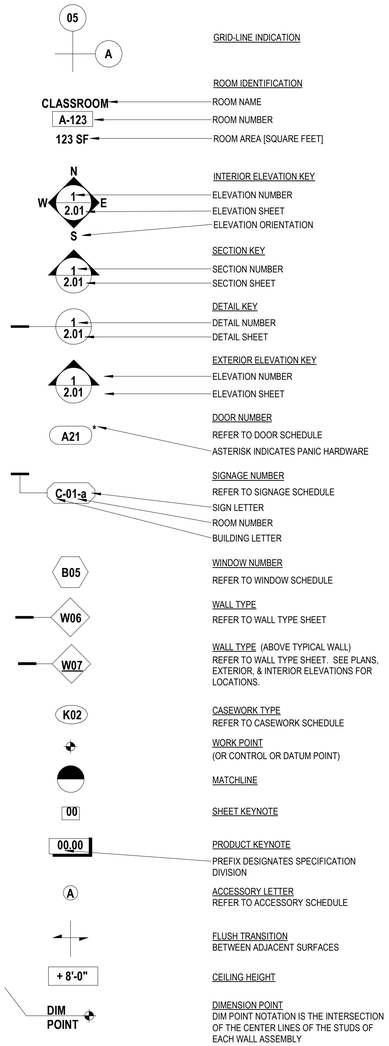
Sheet
COVER SHEET

A0.00

1/20/2026 17:31:41

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SYMBOLS



ABBREVIATIONS

&	AND	LIN	LINEAR
∠	ANGLE	LTG	LIGHTING
@	AT	MATL	MATERIAL
℄	CENTERLINE	MAX	MAXIMUM
Ø	DIAMETER OR ROUND	MB	MACHINE BOLT
#	NUMBER	MECH	MECHANICAL
d	PENNY	MFR	MANUFACTURER
(E)	EXISTING	MIN	MINIMUM
(N)	AIR /	MISC	MISCELLANEOUS
AC	CONDITIONING	MS	MACHINE SCREW
ACCS	ACCESS OR ACCESSIBLE	N	NORTH
ACT	ACOUSTICAL CEILING TILE	NEG	NEGATIVE
AD	AREA DRAIN	NIC	NOT IN CONTRACT
ADJ	ADJACENT	NO	NUMBER
AFF	ABOVE FINISH FLOOR	NTS	NOT TO SCALE
AL	ALUMINUM	OC	ON CENTER(S)
ALT	ALTERNATE	OD	OUTSIDE DIAMETER
ANOD	ANODIZED	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
APPROX	APPROXIMATE	OFOI	OWNER FURNISHED & OWNER INSTALLED
ARCH	ARCHITECTURAL	PERF	PERFORATED
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	PERP	PERPENDICULAR
AVG	AVERAGE	PL	PLATE
BD	BOARD	PLAM	PLASTIC LAMINATE
BLDG	BUILDING	PLBG	PLUMBING
BLK	BLOCK, BLOCKING	PLY	PLYWOOD
BOT	BOTTOM	PREFAB	PREFABRICATE(D)
BTW	BETWEEN	PROP	PROPERTY
BUR	BUILT-UP ROOF	PSI	POUNDS PER SQUARE INCH
CAB	CABINET	PTD	PAINTED
CB	CATCH BASIN	PT	PRESSURE TREATED
CT	CERAMIC TILE	QTY	QUANTITY
CI	CAST IRON	RCP	REFLECTED CEILING PLAN
CLG	CEILING	RD	ROOF DRAIN
CLR	CLEAR	REF	REFERENCE
CMU	CONCRETE MASONRY UNIT	REINF	REINFORCED
COL	COLUMN	REQD	REQUIRED
CONC	CONCRETE	RESIL	RESILIENT
CONT	CONTINUOUS	RO	ROUGH OPENING
DBL	DOUBLE	RWL	RAIN WATER LEADER
DEMO	DEMOLISH	S	SOUTH
DF	DRINKING FOUNTAIN	SCD	SEE CIVIL DRAWINGS
DIA	DIAMETER	SCHED	SCHEDULE; SCHEDULED
DIAG	DIAGONAL	SED	SEE ELECTRICAL DWGS.
DIM	DIMENSION	SF	SQUARE FOOT
DN	DOWN	SHT	SHEET
DR	DOOR	SIM	SIMILAR
DWG	DRAWING	SLD	SEE LANDSCAPE DWGS.
EA	EACH	SMD	SEE MECHANICAL DWGS.
ELEV	ELEVATION	SPD	SEE PLUMBING DWGS.
ELEC	ELECTRICAL	SPEC	SPECIFICATIONS
EXT	EXTERIOR	SSD	SEE STRUCTURAL DWGS.
FAB	FABRICATE	SST	STAINLESS STEEL
FACP	FIRE ALARM CONTROL PANEL	STD	STANDARD
FAR	FLOOR AREA RATIO	STL	STEEL
FD	FLOOR DRAIN	STRT	STRUCTURAL
FDN	FOUNDATION	SUSP	SUSPEND; SUSPENDED
FE	FIRE EXTINGUISHER	T&G	TONGUE AND GROOVE
FFE	FINISHED FLOOR ELEVATION	THRU	THROUGH
FIN	FINISH (ED)	TOC	TOP OF CURB
FIXT	FIXTURE	TP	TOP OF PAVEMENT
FLEX	FLEXIBLE	TYP	TYPICAL
FLR	FLOOR	TW	TOP OF WALL
FLUOR	FLUORESCENT	UON	UNLESS OTHERWISE NOTED
FOC	FACE OF CONCRETE	VERT	VERTICAL
FOF	FACE OF FINISH	VDFG	VERTICAL GRAIN DOUGLAS FIR
FOS	FACE OF STUD	W	WEST
FT	FEET, FOOT	W/	WITH
FTG	FOOTING	W/O	WITHOUT
GA	GAUGE	WD	WOOD
GAL	GALLON	WF	WIDE FLANGE (STEEL)
GALV	GALVANIZED	WIN	WINDOW
GEN	GENERAL	YD	YARD
GFCI	GROUND FAULT CIRCUIT INTERRUPTED	ID	INSIDE DIAMETER (DIM)
GND	GROUND	IN	INCH
GSM	GALVANIZED SHEET METAL	INFO	INFORMATION
GYP BD	GYPSUM WALLBOARD	INSUL	INSULATION
HB	HOSE BIB	LAV	LAVATORY
HM	HOLLOW METAL	LB	POUND
HORZ	HORIZONTAL	LF	LINEAR FEET
HT	HEIGHT		

PROJECT NOTES

1. COORDINATE LAYOUT DIMENSIONS INDICATED ON THE STRUCTURAL, ELECTRICAL DRAWINGS WITH THOSE INDICATED ON THE ARCHITECTURAL DRAWINGS. REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
2. IN THE EVENT THAT CERTAIN FEATURES OF THE NEW CONSTRUCTION ARE NOT FULLY SHOWN IN THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.
3. CHECK AND VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS ON THE PROJECT SITE BEFORE THE WORK BEGINS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES TO THE CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS BEFORE CONSTRUCTION BEGINS.
4. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE OBTAINED FROM THE OWNER-PROVIDED SURVEY DRAWINGS. THE ORIGINAL SURVEYS ARE PROVIDED AS A REFERENCE TO THESE BID DOCUMENTS. VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ALL DEVIATIONS BEFORE PROCEEDING WITH THE WORK.
5. GELFAND PARTNERS ARCHITECTS HAS PREPARED THESE DOCUMENTS ONLY FOR THE IMPROVEMENTS SPECIFIED, DETAILED, INDICATED, OR SHOWN AS NEW WORK AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL, OR EQUIPMENT NOTED, INDICATED, OR SHOWN AS "EXISTING" OR AS "PROVIDED BY OTHERS." UNLESS OTHERWISE INDICATED OR NOTED, GELFAND PARTNERS ARCHITECTS HAS NEITHER CHECKED NOR VERIFIED THE STRUCTURAL INTEGRITY, QUALITY OF CONSTRUCTION, ACCESSIBILITY TO, EGRESS FROM, OR DESIGN OF THE EXISTING CONSTRUCTION AND ANY OTHER WORK NOT INCLUDED AS PART OF THE IMPROVEMENTS SPECIFIED, DETAILED, OR SHOWN ON THESE DOCUMENTS.
6. PROVIDE UL, GA, CBC, OR EQUAL LISTING NUMBERS FOR ALL FIRE-RATED CEILING / FLOOR, ROOF, WALL, AND STRUCTURAL FRAME ASSEMBLIES. THE COMPONENTS AND INSTALLATION DETAILS SUCH AS NAILING SCHEDULES SHALL BE AS SHOWN ON PLANS AND MUST CONFORM IN EVERY PARTICULAR WITH THE UL, GA, CBC, OR EQUAL LISTING NUMBERS SPECIFIED. CUSTOM DESIGNS WHICH COMBINE COMPONENTS FROM DIFFERENT APPROVED DESIGNS BUT HAVE NOT BEEN TESTED AS A COMPLETE ASSEMBLY WILL NOT BE ACCEPTABLE.
7. PENETRATIONS OF PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
8. ADEQUATE ENGINEERING OBSERVATION AND TESTING SHALL BE PROVIDED DURING CONSTRUCTION BY INSPECTOR OF RECORD PER TITLE 24.
9. DO NOT SCALE DIMENSIONS FROM PLANS. USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS.
10. DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED CONSTRUCTION. U.O.N. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION.
11. NO DEVIATION FROM THE APPROVED DRAWINGS AND SPECIFICATIONS IS PERMITTED WITHOUT THE PRIOR CONSENT OF THE ARCHITECT. WRITTEN CONSENT IS SUBJECT TO DSA APPROVAL. THE ARCHITECT'S INTERPRETATION OF THESE DOCUMENTS SHALL BE FINAL.
12. LARGER SCALE DRAWINGS GOVERN IN CASE OF CONFLICT WITH SMALLER SCALE DRAWINGS.
13. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, SPECIFICATIONS, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
14. FOR ADDITIONAL "DSA" REQUIREMENTS, SEE SPECIFICATION SECTIONS 01 40 00.
15. ALL ITEMS ARE NEW U.O.N.
16. WORK INDICATED AS "OWNER FURNISHED" (O.F.C.I.) SHALL MEET ALL APPLICABLE CODES AND REGULATORY REQUIREMENTS INDICATED WITHIN THESE DOCUMENTS AND SHALL BE INSTALLLED AND FULLY OPERATIONAL PRIOR TO THE FINAL APPROVAL AND OCCUPANCY OF THIS PROJECT
17. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER.
18. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN SITE FIRE PLAN.

ADMINISTRATIVE

1. A COPY OF 2022 CALIFORNIA BUILDING CODE (CBC), PARTS 1 AND 2, CALIFORNIA CODE OF REGULATIONS, TITLE 24 SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
2. ALL DSA-CCD'S AND ADDENDA SHALL BE SIGNED BY THE ARCHITECT AND THE OWNER AND APPROVED BY DSA. DSA-CCD'S ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24.
3. ALL TESTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED TESTS & INSPECTIONS [T&I] SHEET.
4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-355 OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.
5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.
6. INSPECTOR-OF-RECORD SHALL BE APPROVED BY DSA AND EMPLOYED BY DISTRICT. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR (CLASS ONE OR TWO) SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.
7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
8. CONTRACTOR, INSPECTOR, ARCHITECT AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-6) IN ACCORDANCE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24.
9. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTION 4-333(a) AND 4-341, PART 1, TITLE 24.
10. THE CONTRACTOR SHALL PERFORM ITS DUTIES IN ACCORDANCE WITH SECTIONS 4-336 & 4-343, PART 1, TITLE 24.
11. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR 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.
12. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE HAS VERIFIED, BY APPROPRIATE MEANS, THAT THE BUILDING CONFORMS TO THE ORIGINALLY APPROVED PLANS AND SPECIFICATIONS AND HAS NOT SUFFERED STRUCTURAL DETERIORATION OR BEEN STRUCTURALLY ALTERED.
13. ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA.
14. NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA FOR APPROVAL.
15. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT (CCD) OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
16. CONSTRUCTION CHANGE DOCUMENTS (CCD'S) MUST BE SIGNED BY THE FOLLOWING:
ARCHITECT OR ENGINEER OF RECORD, STRUCTURAL ENGINEER (WHEN APPLICABLE), DELEGATED PROFESSIONAL ENGINEER, DSA.
17. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.
18. PER CBC 11B-104.1: "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM & MAXIMUM END POINTS."

APPLICABLE CODES

CURRENT CODES
2025 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2021 INTERNATIONAL BUILDING CODE AND 2010 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2020 NATIONAL ELECTRICAL CODE AND 2010 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2021 UNIFORM MECHANICAL CODE AND 2010 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2021 UNIFORM PLUMBING CODE AND 2010 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2021 INTERNATIONAL FIRE CODE AND 2010 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

CURRENT STANDARDS
NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2022 EDITION (AS AMENDED BY CBC CHAPTER 35)
NFPA 14 STANDPIPE SYSTEMS (CA AMENDED) 2019 EDITION (AS AMENDED BY CBC CHAPTER 35)
NFPA 17A WET CHEMICAL SYSTEMS 2022 EDITION (904.2 & 904.13)
NFPA 20 STATIONARY PUMPS 2022 EDITION (AS AMENDED BY CBC CHAPTER 35)
NFPA 24 PRIVATE FIRE MAINS (CA AMENDED) 2022 EDITION (AS AMENDED BY CBC CHAPTER 35)
NFPA 72 NATIONAL FIRE ALARM CODE (CA AMENDED) 2022 EDITION (AS AMENDED BY CBC CHAPTER 35)
NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES 2022 EDITION (AS AMENDED BY CBC CHAPTER 35)
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2018 EDITION (AS AMENDED BY CBC CHAPTER 35)
REFERENCE CODE SECTION FOR NFPA STANDARDS - 2022 CBC (SFM) CHAPTER 35.
SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

PROJECT TEAM

OWNER:
SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT
398 B STREET
SOUTH SAN FRANCISCO, CA 94080
(650) 877-8751
CONTACT: WAZI CHOWDHURY
wchowdhury@ssfusd.org

ARCHITECT:
GELFAND PARTNERS ARCHITECTS
165 10TH STREET #100
SAN FRANCISCO, CA 94103
(415) 346-4040
CONTACT: LARRY SCHADT
larry@gelfand-partners.com

CIVIL:
BKF ENGINEERS
1646 NORTH CALIFORNIA BLVD, #400
WALNUT CREEK, CA 94596
(925) 940-2256
CONTACT: JONATHAN MITRO
jmitro@bkf.com

MEP ENGINEERS:
E-DESIGN-C, INC.
582 MARKET STREET, #400
SAN FRANCISCO, CA 94104
(415) 963-4303
CONTACT: ROSANNA LERMA
rosanna@edesignc.com

MODULAR MANUFACTURER:
SILVER CREEK MODULAR INC.
2830 BARRETT AVE,
PERRIS, CA 92571
(951) 943-5393
CONTACT: RYAN MCINTOSH
rmcintosh@silvercreekmodular.com

PROJECT INFORMATION

ADDRESS:
151 VICTORIA ST.
DALY CITY, CA 94015

EXISTING FIRE SPRINKLERS:
NO

EXISTING FIRE ALARM:
YES

NUMBER OF STORIES:
1

BUILDING CONSTRUCTION TYPE:
V-B

EXISTING OCCUPANCY:
E

PROPOSED OCCUPANCY:
E

TOTAL BUILDING AREA:
1430 SQUARE FOOTAGE

ALLOWABLE AREA WITH SPRINKLERS:

NOTE:
THE PROPOSED SCOPE OF WORK WILL NOT AFFECT EXISTING FIRE ALARM AND FIRE SPRINKLER EQUIPMENT.

PREVIOUS DSA APPLICATION NUMBERS:

APPL #01-27516 PORTABLES
APPL #01-32425 PORTABLES
APPL #01-32880 CLASSROOMS
APPL #01-32890 CLASSROOMS, MULTI-PURPOSE, ADMIN
APPL #01-34987 ADMIN & MULTIPURPOSE
APPL #01-67616 PORTABLE
APPL #01-101141 PORTABLE
APPL #01-101202 ADMIN, CLASSROOMS, MULTIPURPOSE
APPL #01-114437 LIBRARY & CLASSROOM

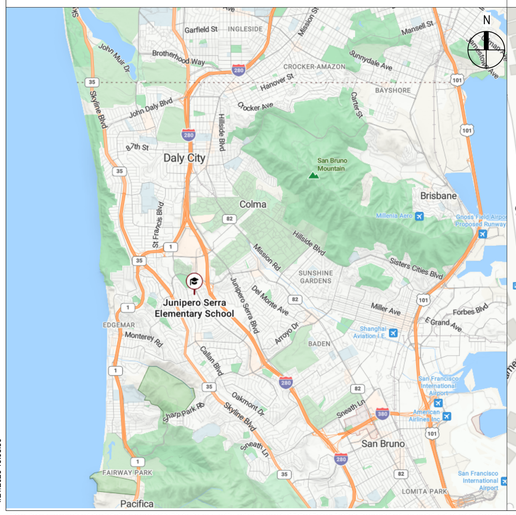
DEFERRED APPROVALS

NONE

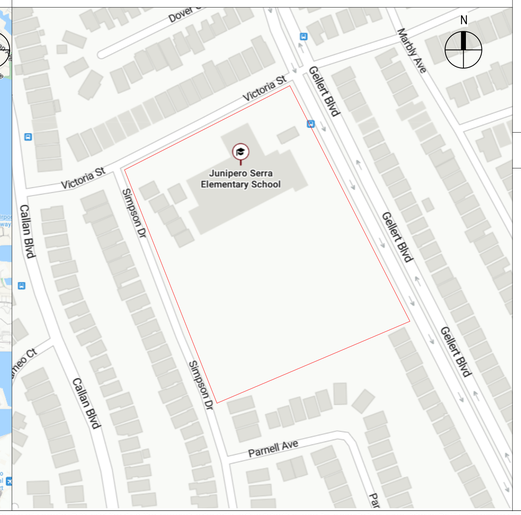
SCOPE OF WORK

1. NEW MODULAR PC TRANSITIONAL KINDERGARTEN CLASSROOM BUILDING
2. NEW VAN ACCESSIBLE STALL IN ADJACENT PARKING LOT.
3. NEW FIRE HYDRANT
4. NO DSA CERTIFICATION IS AVAILABLE FOR EXISTING ACCESSIBLE STALLS IN PARKING LOT A AS WELL AS THE SECURITY DOOR TO THE ADMIN BLDG. IT IS PART OF THIS PROJECT SCOPE TO CERTIFY THE SECURITY DOORS AND ACCESSIBLE STALLS BASED ON THE FILED, VERIFIED DRAWINGS PROVIDED.
5. STAFF RESTROOM ALTERATION IN BUILDING "E".

REGIONAL MAP



VICINITY MAP



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

GELFAND PARTNERS ARCHITECTS
165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

FILE# 41-28
APPL # 01-122855

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Consultants

Drawing Record

REV	DESCRIPTION	DATE
1	DSA PERMIT SET	12/10/25
2	DSA: V2	01/14/26
3	DSA: V3	01/20/26

Printed: 1/21/2026 16:05:30

Architect

LICENSED ARCHITECT
LAWRENCE EDWARD SCHADT
NO. C-29266
REN. 8-31-27
STATE OF CALIFORNIA

Project
JUNIPERO SERRA ES MODULAR
151 Victoria St.
Daly City, CA 94015
2516.00

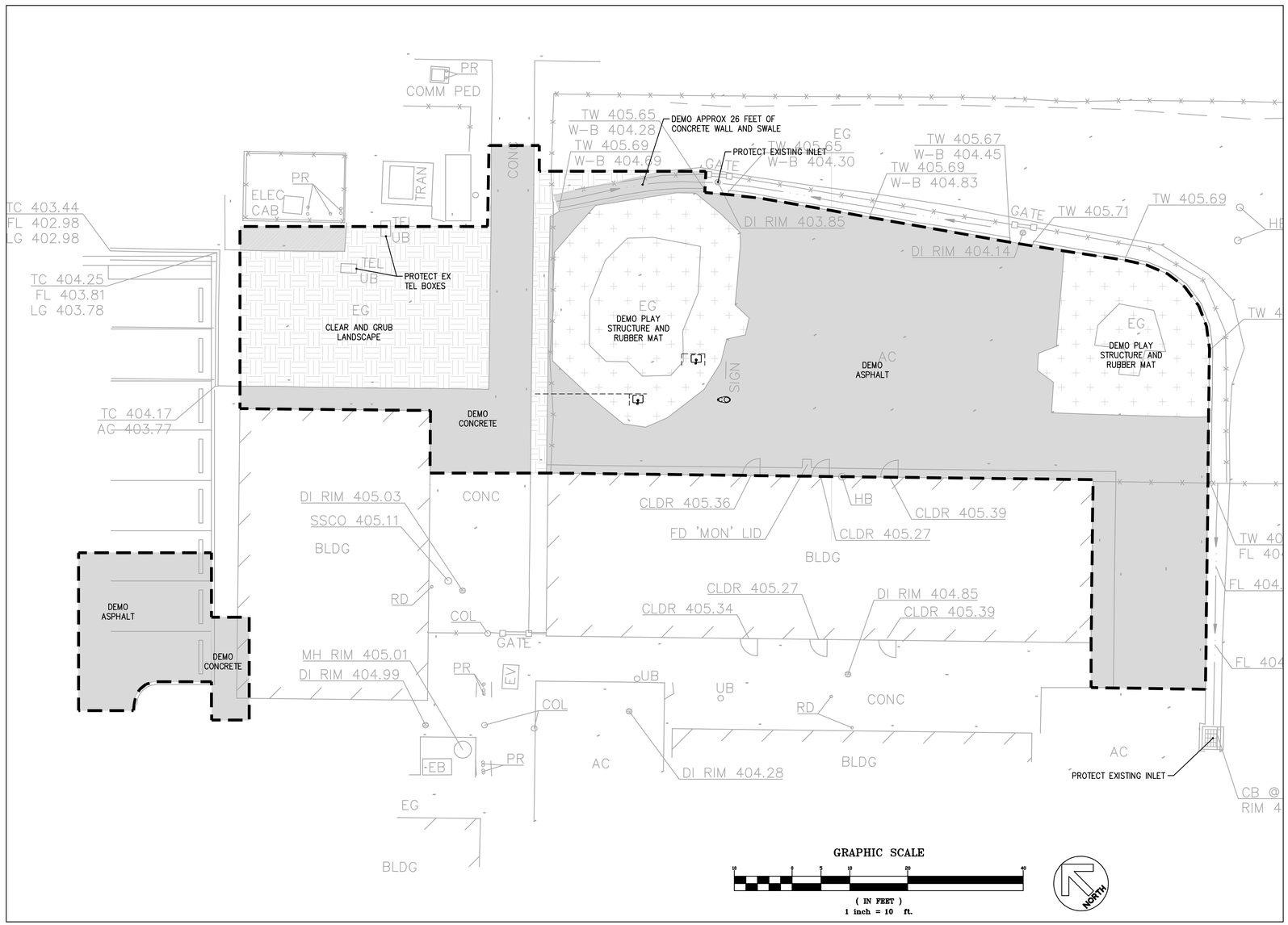
Sheet
NOTES & GENERAL INFORMATION

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GEOTECHNICAL NOTES

UNDOCUMENTED FILLS
ALL UNDOCUMENTED FILLS SHALL BE FULLY REMOVED AND REPLACED AS ENGINEERED FILL BENEATH PLANNED FOUNDATIONS.
EACH INDIVIDUAL FOOTING BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT, RESULTING IN A MINIMUM OF 12 INCHES OF ENGINEERED FILL BENEATH ALL NEW FOUNDATIONS.

SUBGRADE PREPARATION
AFTER SITE CLEARING AND DEMOLITION IS COMPLETE, AND PRIOR TO BACKFILLING ANY EXCAVATIONS RESULTING FROM FILL REMOVAL OR DEMOLITION, THE EXCAVATION SUBGRADE AND SUBGRADE WITHIN AREAS TO RECEIVE ADDITIONAL SITE FILLS, SLABS-ON-GRADE AND/OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF 12 INCHES, MOISTURE CONDITIONED AND COMPACTED.
DUE TO THE SANDY SOILS LIKELY TO BE ENCOUNTERED AT THE SUBGRADE ELEVATION, SUBGRADE COMPACTION AND PROOF ROLLING SHALL BE PERFORMED WITHIN 24 HOURS OF CAPILLARY BREAK LAYER OR SLAB-ON-GRADE CONSTRUCTION.

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TRENCH BACKFILL

ALL UTILITY LINES SHOULD BE BEDDED AND SHADED TO AT LEAST 6 INCHES OVER THE TOP OF THE LINES WITH CRUSHED ROCK (¾-INCH-DIAMETER OR GREATER) OR WELL-GRADED SAND AND GRAVEL MATERIALS CONFORMING TO THE PIPE MANUFACTURER'S REQUIREMENTS. OPEN-GRADED SHADING MATERIALS SHOULD BE CONSOLIDATED IN PLACE WITH VIBRATORY EQUIPMENT AND WELL-GRADED MATERIALS SHOULD BE COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION WITH VIBRATORY EQUIPMENT PRIOR TO PLACING SUBSEQUENT BACKFILL MATERIALS.
WHERE UTILITY LINES WILL CROSS PERPENDICULAR TO STRIP FOOTINGS, THE FOOTING SHOULD BE DEEPENED TO ENCASE THE UTILITY LINE, PROVIDING SLEEVES OR FLEXIBLE CUSHIONS TO PROTECT THE PIPES FROM ANTICIPATED FOUNDATION SETTLEMENT, OR THE UTILITY LINES SHOULD BE BACKFILLED TO THE BOTTOM OF FOOTING WITH SAND- CEMENT SLURRY OR LEAN CONCRETE. WHERE UTILITY LINES WILL PARALLEL FOOTINGS AND WILL EXTEND BELOW THE "FOUNDATION PLANE OF INFLUENCE," AN IMAGINARY 1:1 PLANE PROJECTED DOWN FROM THE BOTTOM EDGE OF THE FOOTING, EITHER THE FOOTING WILL NEED TO BE DEEPENED SO THAT THE PIPE IS ABOVE THE FOUNDATION PLANE OF INFLUENCE, OR THE UTILITY TRENCH WILL NEED TO BE BACKFILLED WITH SAND-CEMENT SLURRY OR LEAN CONCRETE WITHIN THE INFLUENCE ZONE. SAND-CEMENT SLURRY USED WITHIN FOUNDATION INFLUENCE ZONES SHOULD HAVE A MINIMUM COMPRESSIVE STRENGTH OF 75 PSI.

DEMOLITION NOTES

1. EXISTING UTILITIES SHOWN ARE SCHEMATIC AND FOR REFERENCE ONLY. CONTRACTOR TO EXPOSE (E) UTILITIES PRIOR OR DURING DEMOLITION/EXCAVATION TO EXPOSE (E) UTILITY SERVICES TO CONFIRM LOCATION AND DEPTH SUFFICIENT TO ALLOW CONSTRUCTION OF PLANNED PAVEMENT.
2. THIS PLAN SHOWS GENERAL LIMITS OF DEMOLITION AND DOES NOT RELIEVE THE CONTRACTOR FROM OTHER DEMOLITION WORK NECESSARY TO INSTALL NEW UTILITIES, SITE WORK, PAVING, ETC.
3. CLEAR AND GRUB WITHIN LIMITS OF DEMOLITION.
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5. SEE ARCHITECTURAL PLAN FOR TREE REMOVAL
6. ADJUST (E) UTILITY STRUCTURES WITHIN LIMITS OF DEMO TO REMAIN TO FINISH GRADE.
7. AT LIMIT OF WORK LOCATIONS, SAWCUTS SHALL BE NEAT AND SQUARE. SAWCUTS IN CONCRETE SHALL BE AT EXISTING JOINTS OR SCORE MARKS.
8. PROTECT ALL (E) BUILDINGS, STRUCTURES, AND UTILITIES TO REMAIN AND VERIFY EXISTING FEATURES WILL NOT BE IMPACTED BY DEMOLITION ACTIVITIES.

SPECIFICATIONS

1. HEADERS SHALL BE CONSTRUCTION HEART GRADE REDWOOD, PER PARAGRAPH 114 OF THE STANDARD SPECIFICATIONS FOR GRADES OF CALIFORNIA REDWOOD LUMBER.
2. STAKES SHALL BE REDWOOD OF GRADE SPECIFIED FOR HEADERS.
3. NAILS SHALL BE COMMON, GALVANIZED, 12D MINIMUM.
4. ASPHALTS SHALL COMPLY WITH THE FOLLOWING PROVISIONS OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 203-1: PAVING ASPHALT - AR 4000; PRIME COAT - SC250; AND TACK COAT - SS-1H.
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6. ASPHALT CONCRETE PAVING MIX SHALL HAVE 5 TO 7 PERCENT ASPHALT CEMENT CONTENT BY WEIGHT IN ACCORDANCE WITH TAI PUBLICATION MS-2.
7. SEAL COAT SHALL BE GUARDTOP MANUFACTURED BY INDUSTRIAL ASPHALT INC., (909) 626-1258.
8. GRANULAR BASE MATERIAL SHALL BE SPREAD TO COMPACTED THICKNESS SHOWN ON THE PLANS. COMPACT TO AT LEAST 95 PERCENT RELATIVE COMPACTION.
9. GRANULAR BASE THICKNESS TOLERANCE SHALL BE MINUS 0.0 INCH TO PLUS 0.5 INCH. SMOOTHNESS TOLERANCE SHALL BE $\frac{3}{8}$ INCH IN 10 FEET. DEVIATIONS SHALL BE CORRECTED BY REMOVING MATERIALS, REPLACING WITH NEW MATERIALS, AND REWORKING OR RECOMPACTING AS REQUIRED. MOISTURE CONTENT SHALL BE ONLY THE AMOUNT NEEDED TO ACHIEVE THE SPECIFIED COMPACTION.
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13. BITUMINOUS CONCRETE PAVING SHALL: BE FREE FROM BIRDBATHS, HAVE A MAXIMUM FLATNESS VARIATION OF $\frac{1}{8}$ INCH IN 6 FEET, HAVE COMPACTED THICKNESS WITHIN $\frac{1}{4}$ INCH, AND HAVE VARIATION FROM TRUE ELEVATION WITHIN $\frac{1}{4}$ INCH.

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165 10th Street, Suite 100
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FILE#
APPL #

Client

Consultants

BKF Engineers
1646 N. California Blvd
Ste 400
Walnut Creek, CA

TRUE

Drawing Record

REV	DESCRIPTION	DATE

Printed:

Engineer

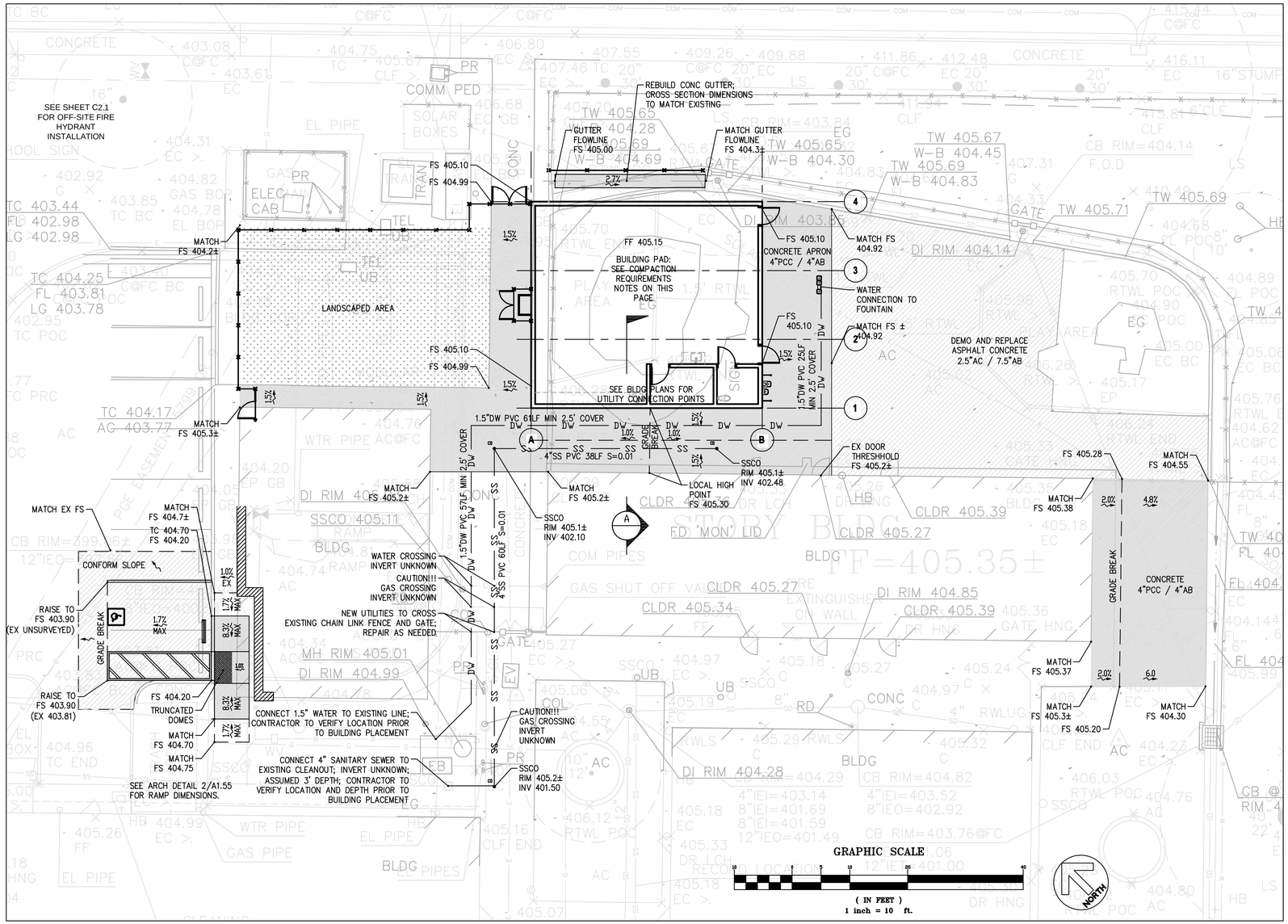
REGISTERED PROFESSIONAL ENGINEER
TIMOTHY P. HEFFERNAN
No. 67089
Exp. 9/30/26
CIVIL
STATE OF CALIFORNIA

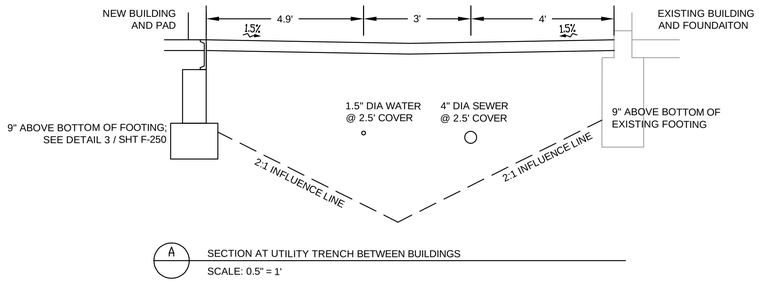
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Daly City, CA 94015
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EXISTING CONDITIONS AND DEMOLITION PLAN

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A SECTION AT UTILITY TRENCH BETWEEN BUILDINGS

SCALE: 0.5" = 1'

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FILE#
APPL #

Client

Consultants

BKF Engineers
1646 N. California Blvd
Ste 400
Walnut Creek, CA

TRUE

Drawing Record

REV	DESCRIPTION	DATE

Printed:

Engineer

REGISTERED PROFESSIONAL ENGINEER TIMOTHY P. HEFFERNAN No. 67089 Exp. 9/30/26 CIVIL STATE OF CALIFORNIA

Project

JUNIPERO SERRA ES MODULAR

151 Victoria St.
Daly City, CA 94015

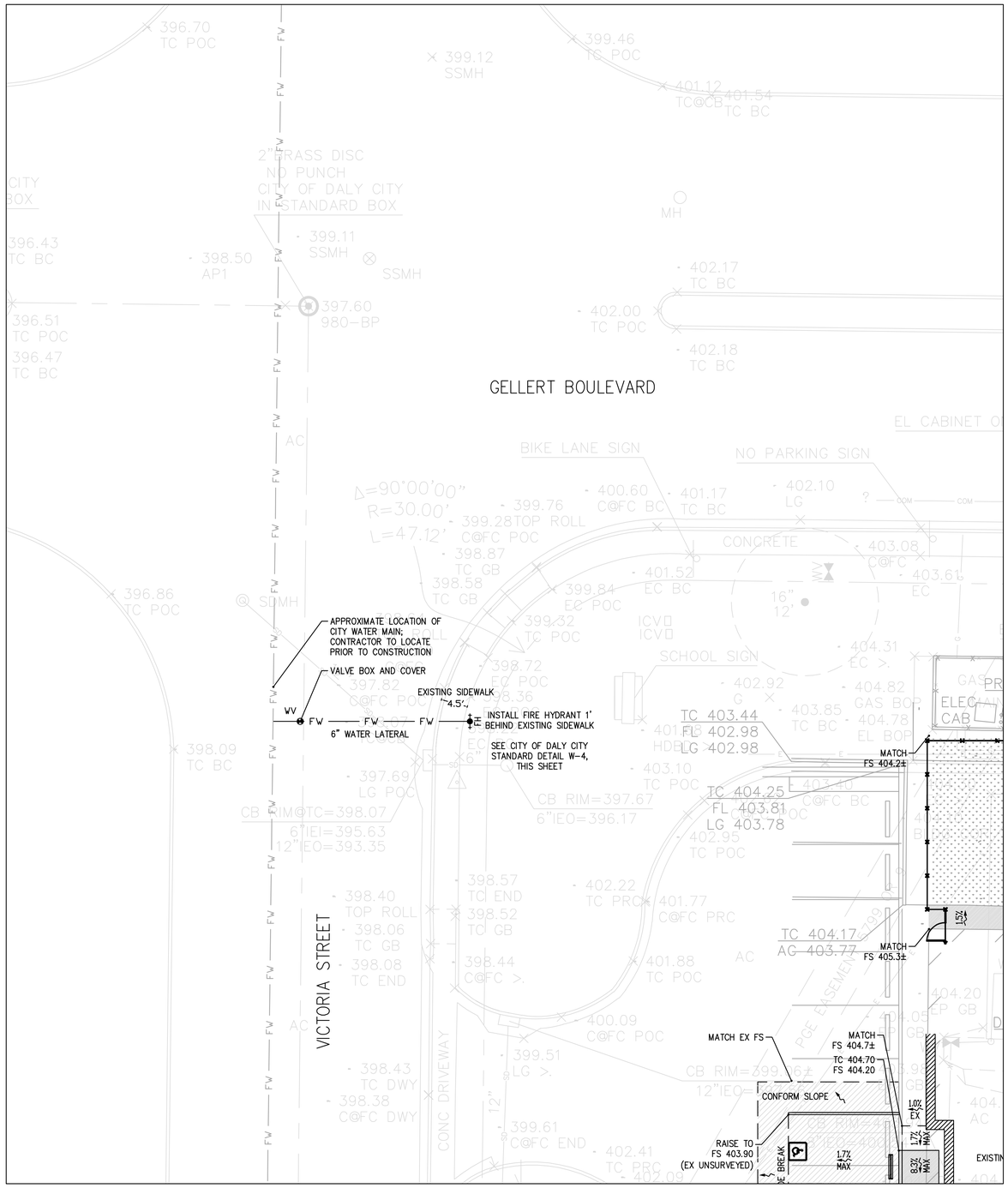
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GRADING, PAVING AND UTILITY PLAN

C2.0

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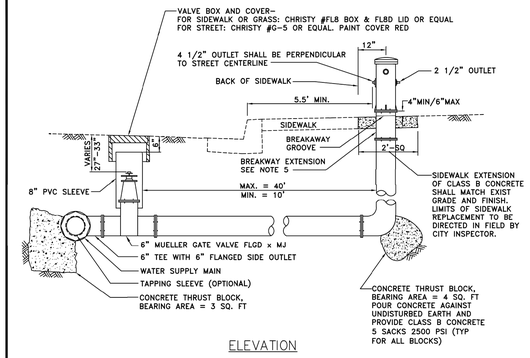
GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 inch = 10 ft.

NORTH



ELEVATION

NOTE:

1. THE FIRE HYDRANT SHALL BE PAINTED CHROME YELLOW ENAMEL CONFORMING TO AWWA STANDARD C503, DUNN-EDWARDS-SYN-LUSTRO #10-14 HIGH VISIBILITY YELLOW-INDUSTRIAL MAINTENANCE ENAMEL. PRIOR TO CONTRACTOR'S REQUEST FOR CITY PUNCH LIST, DAMAGED PAINT AREAS SHALL BE RETOUCHED AND ONE ADDL, OVERALL FINISH COAT SHALL BE APPLIED.
2. BLUE REFLECTORIZED MARKER SHALL BE INSTALLED 0.75' OFF CENTER LINE OF STREET ON THE SIDE TOWARD THE FIRE HYDRANT.
3. HYDRANT SHALL HAVE A MINIMUM 3' CLEARANCE FROM ANY ADJACENT FIXED OBJECT.
4. THE WATER SUPPLY MAIN FOR FIRE HYDRANT SHALL HAVE A MINIMUM OF 6" DIAMETER.
5. BREAKAWAY EXTENSIONS SHOULD NOT BE SHORTER THAN 6" NOR LONGER THAN 12".
6. TO ALLOW CONTINUAL FIRE DEPARTMENT ACCESS WHEREVER FEASIBLE, VALVE LOCATION SHALL BE OUTSIDE OF PARKING LANE.
7. ALL MECHANICAL JOINTS SHALL BE PROVIDED WITH APPROVED JOINT RESTRAINT DEVICES, "MEGALUGS" BY EBBA, OR EQUAL.
8. CITY TO PROVIDE "COLOR CODED" OUTLET CAPS PER NFPA STANDARD 291.

CITY OF DALY CITY, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

STANDARD DETAIL

WATER MAIN CONNECTION - FIRE HYDRANTS (RESIDENTIAL AREA)

W-4

REVIEWED BY: Richard Chan ADOPTED ON: DEC 10, 2018
CITY ENGINEER CITY COUNCIL

DATE: NOV 2018

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DATE: 1/23/2026

GELFAND PARTNERS ARCHITECTS
165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

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Consultants

BKF Engineers
1646 N. California Blvd
Ste 400
Walnut Creek, CA

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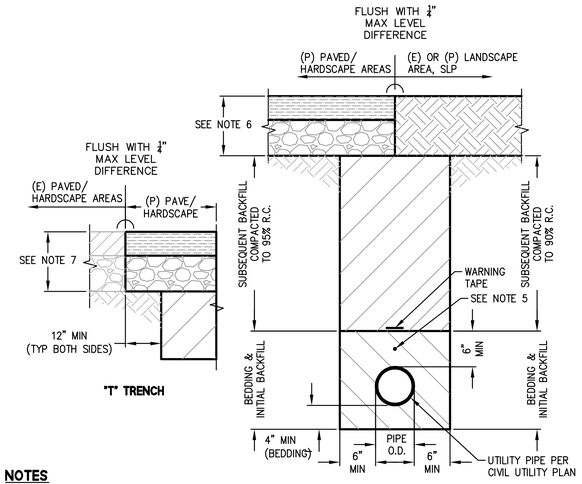
REGISTERED PROFESSIONAL ENGINEER TIMOTHY F. HEFFERNAN No. 67089 Exp. 9/30/26 CIVIL STATE OF CALIFORNIA

Project
JUNIPERO SERRA ES MODULAR
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2516.00

Sheet
OFF-SITE UTILITY PLAN

C2.1

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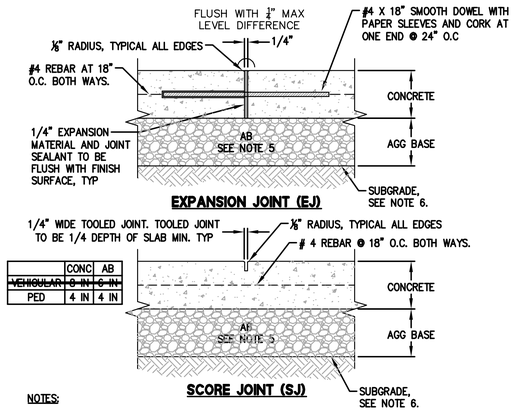


"T" TRENCH

NOTES

1. BEDDING AND INITIAL BACKFILL:
   1.1. SAND PER CALTRANS SPECIFICATION SECTION 19–3025B, COMPACTED TO 95% R.C.
   1.2. UNDER SATURATED CONDITIONS AND APPROVED BY THE ENGINEER AND GEOTECHNICAL CONSLUTATNT – MANUFACTURED AGGREGATE PER ASTM 2321 CLASS IA (3/8" MAX). COMPACTION SHALL BE BY VIBRATORY EQUIPMENT OR AS APPROVED BY THE GEOTECHNICAL CONSULTANT.
2. SUBSEQUENT BACKFILL:
   2.1. CLASS II AGGREGATE BASE PER CALTRANS SPECIFICATION SECTION 26 (3/4" MAX). REFER TO DETAIL FOR COMPACTION REQUIREMENTS.
   2.2. IMPORTED OR EXCAVATED ONSITE SOIL CONFORMING TO STRUCTURAL FILL PER SPECIFICATION SECTION 31 23 00 APPROVED BY THE GEOTECHNICAL CONSULTANT. REFER TO DETAIL FOR COMPACTION REQUIREMENTS.
3. BACKFILL TO BE COMPACTED IN LIFTS NOT EXCEEDING 8–INCHES.
4. ALL UTILITY TRENCHES THAT RUN BELOW CURBS, GUTTER AND SIDEWALKS SHALL BE PLUGGED AT LEAST 2–FEET THICK AND 2–FEET BEYOND TRENCH EDGE WITH COMPACTED CLAYEY–SOIL, COMPACTEED BENTONITE, A BENTONITE–CEMENT OR SAND–CEMENT SLURRY MIXTURE.
5. TRACER WIRE FOR NON–METALLIC UTILITY PIPES
6. PAVEMENT SECTION. SEE PAVING PLANS FOR SECTION DETAILS.
7. PAVEMENTS SECTION. MIN PAVING SECTION SHALL MATCH EXISTING OR SHALL BE PER PAVING PLAN, WHICHEVER IS GREATER.

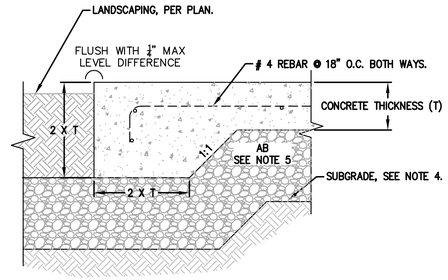
1 **UTILITY TRENCH**
N.T.S.



NOTES:

1. INTERRUPT REINFORCING STEEL AT EXPANSION JOINT.
2. LOCATE COLD JOINTS ONLY AT EXPANSION JOINT OR SCORE JOINT LOCATIONS AS INDICATED ON LAYOUT PLAN. LOCATE COLD JOINTS AT EXPANSION JOINTS WHERE POSSIBLE. IF COLD JOINTS ARE LOCATED AT SCORE JOINT LOCATIONS AS SHOWN ON LAYOUT PLAN, REBAR CAN BE EXTENDED THROUGH THE JOINT AND STEEL DOWELS CAN BE ELIMINATED.
3. PORTLAND CEMENT CONCRETE SHALL BE MINOR CONCRETE PER PROJECT SPECIFICATIONS.
4. PROVIDE EXPANSION JOINTS 20' OC MAX SPACING AND AT CURB RETURNS. CONTROL JOINTS SHALL BE PROVIDED BETWEEN EXPANSION JOINTS AT 10' MAX SPACING.
5. CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
6. SCARIFY UPPER 6" OF SUBGRADE AND COMPACT TO 95% RELATIVE COMPACTION PER GETOECH REPORT. REFER TO THE GEOTECH REPORT FOR OVEREXCAVATION REQUIREMENTS.

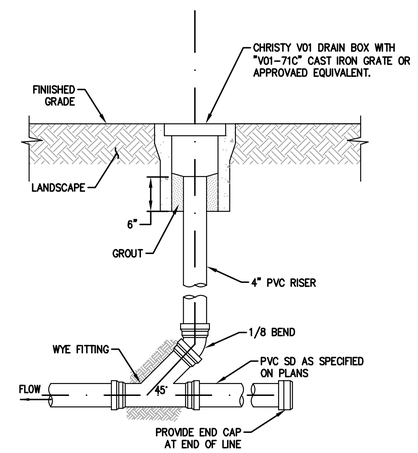
2 **CONCRETE PAVEMENT**
N.T.S.



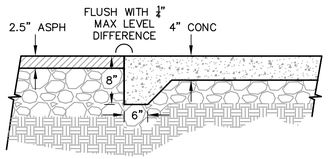
NOTES:

1. REFER TO PAVING PLAN AND SECTIONS FOR ADDITIONAL INFORMATION.
2. PORTLAND CEMENT CONCRETE SHALL BE MINOR CONCRETE PER PROJECT SPECIFICATIONS.
3. CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
4. SCARIFY UPPER 6" OF SUBGRADE AND COMPACT TO 95% RELATIVE COMPACTION PER GETOECH REPORT. REFER TO THE GEOTECH REPORT FOR OVEREXCAVATION REQUIREMENTS.

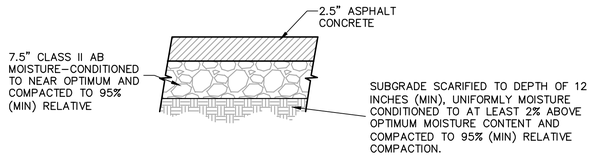
3 **CONCRETE PAVEMENT**
N.T.S.



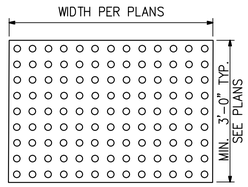
4 **AREA DRAIN**
N.T.S.



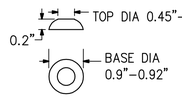
6 **ASPHALT TO CONCRETE TRANSITION**
NTS



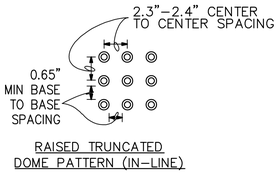
7 **AC PAVEMENT**
NTS



TRUNCATED DOME PLAN VIEW



RAISED TRUNCATED DOME



RAISED TRUNCATED DOME PATTERN (IN–LINE)

NOTES:

1. DETECTABLE WARNINGS SHALL COMPLY WITH CBC 2019 SECTION 11B–705
2. DETECTABLE WARNING SURFACE SHALL CONTRAST WITH THE ADJACENT WALKING SURFACE
3. DETECTABLE WARNINGS AT CURB RAMPS SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE CURB IS 6" MIN. AND 8" MAXIMUM FROM THE LINE AT THE FACE OF THE CURB MARKING THE TRANSITION BETWEEN THE CURB AND THE GUTTER, STREET, OR HIGHWAY. (EXCEPT AT PARALLEL CURB RAMPS)
4. COLOR: DETECTABLE WARNING SURFACES SHALL BE YELLOW PER FS 33538, FEDERAL STANDARD 595C. DETECTABLE WARNING SURFACES AT CURB RAMP SHALL BE BLACK PER FS 17038, FEDERAL STANDARD 595C.

8 **TRUNCATED DOMES**
NTS

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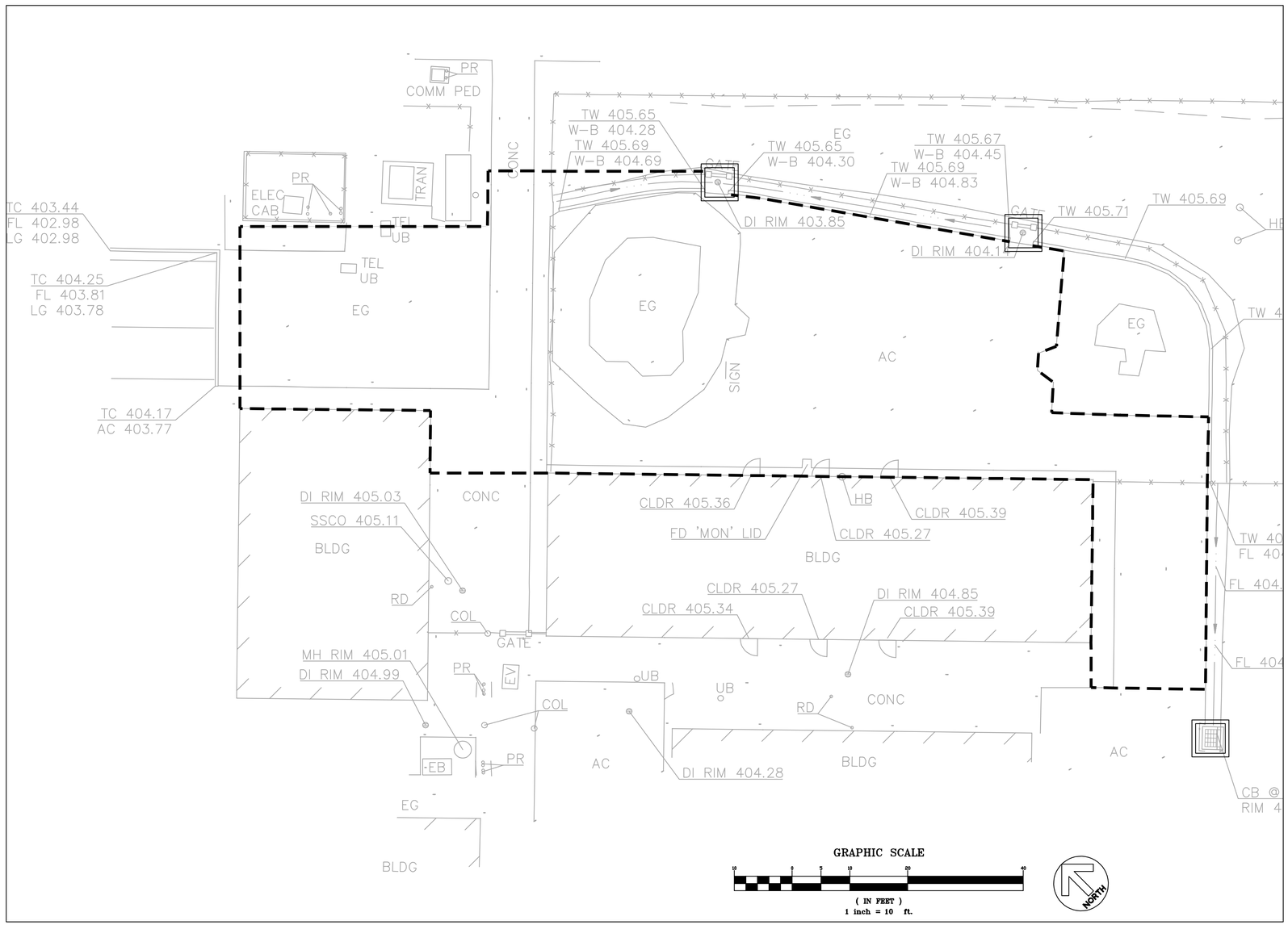
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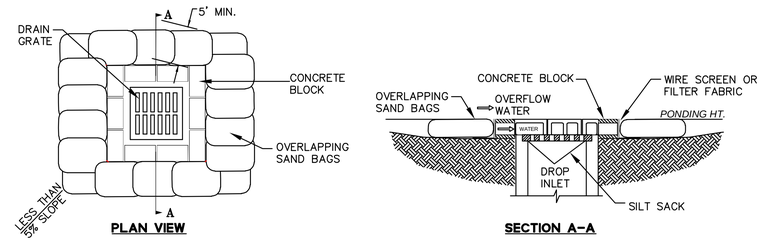
EROSION CONTROL LEGEND:

SEDIMENT BARRIER
SEE DETAIL 1 BELOW

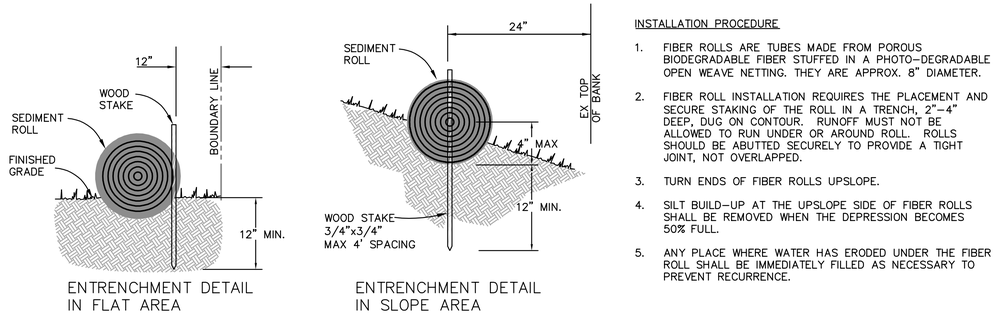
FIBER ROLL
SEE DETAIL 2 BELOW

EROSION CONTROL NOTES AND SPECIFICATIONS:

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN EFFECT AND MAINTAINED BY THE CONTRACTOR ON A YEAR-ROUND BASIS UNTIL ALL DISTURBED CITY AREAS ARE STABILIZED.
2. ALL INLETS RECEIVING STORM WATER RUNOFF FROM THE PROJECT AREA MUST BE EQUIPPED WITH REQUIRED INLET PROTECTION.
3. ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF ENTERING THE STORM DRAIN SYSTEM.
4. THE CONTRACTOR SHALL ADJUST THE EROSION CONTROL LAYOUT FOR SITE CONDITIONS. SEDIMENT LADEN RUNOFF SHALL NOT BE ALLOWED TO LEAVE THE SITE WITHOUT BEING ADEQUATELY FILTERED OR DETAINED TO ALLOW SETTLEMENT.
5. CONTRACTOR SHALL ALSO PROVIDE A QUALIFIED SWPPP PRACTITIONER TO IMPLEMENT ALL SWPPP NEEDS ON SITE FOR THE DURATION OF CONSTRUCTION.
6. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING SEDIMENT AND SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE. FABRIC-WRAPPED CINDER BLOCKS, SAND BAGS, FIBER ROLLS AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS SHALL USE ONE OF THE SEDIMENT BARRIERS SHOWN.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATELY OWNED AND MAINTAINED ROADS CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED.
8. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OPERABLE AT ALL TIMES UNTIL VEGETATION IS ESTABLISHED ON DISTURBED SURFACES.
9. HYDROSEED AND INITIAL LANDSCAPE PLANTING SHALL BE IN-PLACE NO LATER THAN SEPTEMBER 15. CONTRACTOR SHALL BE RESPONSIBLE FOR INITIAL WATERING OF AREAS TO ESTABLISH GROWTH AND STABILIZE SLOPES BY OCTOBER 1.
10. DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT AND SEDIMENT-LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
11. ALL SLOPES SHALL BE REPAIRED AS SOON AS POSSIBLE WHEN DAMAGED.
12. BORROW AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES (TARPS, FIBER ROLLS, SILT FENCES ETC.) TO ENSURE SILT DOES NOT LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.
13. ALL TRUCK TIRES SHALL BE CLEANED PRIOR TO EXITING THE PROPERTY.
14. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES.
15. DURING PERIODS WHEN STORMS ARE FORECASTED: EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREAS; ANY EXCAVATED SOILS SHOULD BE REMOVED FROM THE SITE BY THE END OF THE DAY; WHERE STOCKPILING IS NECESSARY, USE A TARPAULIN OR SURROUND THE STOCKPILED MATERIAL WITH STRAW BALES, SILT FENCE, OR OTHER RUNOFF CONTROLS; USE INLET CONTROLS FOR STORM DRAINS ADJACENT TO THE STOCKPILED; THOROUGHLY SWEEP ALL PAVED AREAS EXPOSED TO SOIL EXCAVATION AND PLACEMENT.
16. DURING PERIODS WHEN STORMS ARE NOT FORECASTED: PREVENT STOCKPILED MATERIAL FROM ENTERING THE STORM DRAIN SYSTEM; THOROUGHLY REMOVE LOOSE SOIL VIA SWEEPING FOLLOWING REMOVAL OF DIRT.
17. OPEN SPACE AREAS ARE TO BE PLANTED BY SEPTEMBER 15. IF THIS CONDITION IS NOT MET, CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.
18. DURING CONSTRUCTION, THE MAINTENANCE OF SUMMERTIME DRAINAGE THROUGH THE SITE IS THE RESPONSIBILITY OF THE CONTRACTOR. DURING CONSTRUCTION, MAINTAIN SITE TO DRAIN END OF EVERY SHIFT.
19. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT AND REPAIR ALL EROSION CONTROL FACILITIES AT THE END OF EACH WORK DAY DURING THE RAINY SEASON AND/OR AS NEEDED.
20. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING GRADING OPERATION, BEFORE OCTOBER 1 AND PRIOR TO INSTALLATION OF STORM DRAINAGE SYSTEM. SUCH ADDITIONAL MEASURES WILL BE CONTINGENT UPON THE STAGE OF GRADING OPERATION.
21. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AND MAKE ALL NECESSARY REPAIRS AFTER EACH STORM EVENT AND/OR AS NEEDED.
22. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATELY OWNED AND MAINTAINED ROADS CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE. ADJACENT PUBLIC ROADS SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
23. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND DESIGNATING AREAS FOR SOIL AND CONSTRUCTION MATERIALS STORAGE, AND WASTE COLLECTION AREAS. AREAS ARE TO BE COVERED AND SURROUNDED BY EARTHERN BERMS AND/OR OTHER CONTAINMENT MEASURES.
24. VACUUM SAW-CUTTING SLURRY IMMEDIATELY AND REMOVE FROM SITE. DO NOT ALLOW SAW-CUT SLURRY TO ACCUMULATE ON SURROUNDING PAVEMENT OR ENTER THE STORM WATER CONVEYANCE SYSTEM.



1 **STORM INLET SEDIMENT BARRIER**
NTS



2 **FIBER ROLL**
NTS

INSTALLATION PROCEDURE

1. FIBER ROLLS ARE TUBES MADE FROM POROUS BIODEGRADABLE FIBER STUFFED IN A PHOTO-DEGRADABLE OPEN WEAVE NETTING. THEY ARE APPROX. 8" DIAMETER.
2. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 2"-4" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL. ROLLS SHOULD BE ABUTTED SECURELY TO PROVIDE A TIGHT JOINT, NOT OVERLAPPED.
3. TURN ENDS OF FIBER ROLLS UPSLOPE.
4. SILT BUILD-UP AT THE UPSLOPE SIDE OF FIBER ROLLS SHALL BE REMOVED WHEN THE DEPRESSION BECOMES 50% FULL.
5. ANY PLACE WHERE WATER HAS ERODED UNDER THE FIBER ROLL SHALL BE IMMEDIATELY FILLED AS NECESSARY TO PREVENT RECURRENCE.

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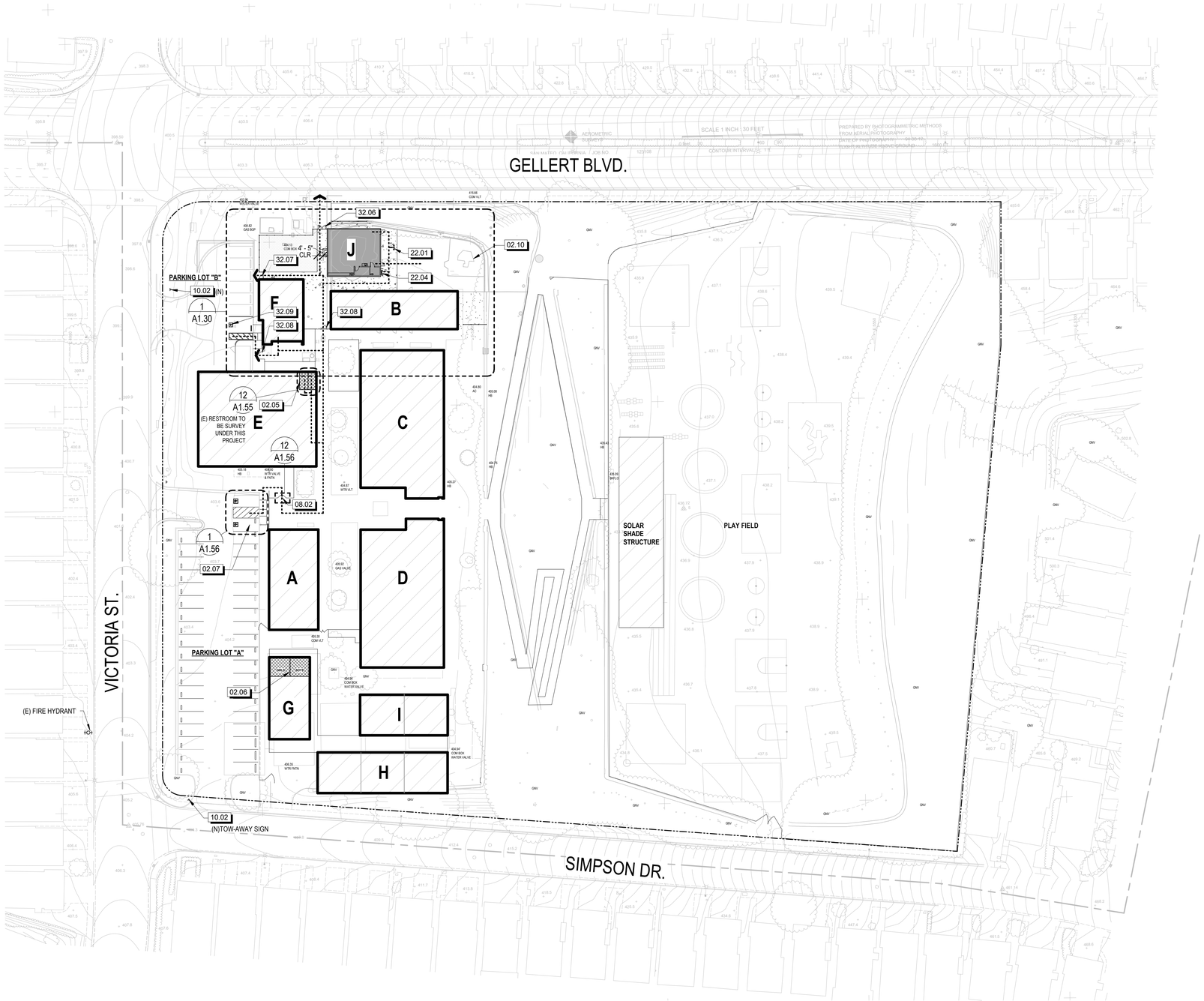
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EROSION CONTROL PLAN AND DETAILS

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PATH OF TRAVEL

1. PATH OF TRAVEL (P.O.T.), TECHNICAL REQUIREMENTS FOR ACCESSIBLE ROUTE: ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING ½" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING ¼" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL, ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. THERE IS NO DROP-0FF OVER 4" AT THE EDGE OF WALK OR LANDING. ARCHITECT AND CONTRACTOR SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED.
2. (E) CLASSROOMS EXIT DIRECTLY TO EXTERIOR, TYP.
3. (E) WALKWAYS ARE CONCRETE. U.O.N.
4. ALL THRESHOLDS TO BE 1/2" MAX, & BEVEL NOT TO EXCEED 1:2 SLOPE.
5. 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 NON-COMPLIANT 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 NONCOMPLIANT 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.
6. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."
7. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE PATH OF TRAVEL (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 NON-COMPLIANT 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 THE CONSTRUCTION DOCUMENTS.
8. DURING CONSTRUCTION, IF THE POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH CBC AS A PART OF THIS PROJECT BY MEANS OF CONSTRUCTION.
9. DESIGN PROFESSIONAL SURVEYED THE SITE AND ALL THE DOORS ALONG THE PATH OF TRAVEL COMPLY WITH 2022 CBC 11B-404. THRESHOLDS COMPLY WITH 2022 CBC 11B-303 WITH LEVEL LANDINGS AT 1:48 MAX ALLOWABLE SLOPE THROUGHOUT THE MANEUVERING CLEARANCE AREA PER 2022 CBC 11B-404.2.4.4.

SHEET NOTES

1. SEE SHEET A1.11 FOR CODE ANALYSIS AND LISTING OF DSA APPLICATION NUMBERS FOR EACH BUILDING.
2. SEE SHEET A1.11 FOR FIRE ACCESS.
3. SEE SHEET A1.12 FOR EGRESS ANALYSIS.

PARKING ANALYSIS

PARKING LOT "A" (USERS: STAFF & VISITORS)	
38	STANDARD PARKING STALLS
2 *	ACCESSIBLE STALLS (ONE VAN)
40	TOTAL STALLS

* 2 ACCESSIBLE STALLS REQUIRED PER 2022 CBC TABLE 11B-208.2

PARKING LOT "B" (USERS: STAFF)	
7	STANDARD PARKING STALLS
1 *	ACCESSIBLE STALLS (ONE VAN)
8	TOTAL STALLS

* 1 ACCESSIBLE VAN STALL REQUIRED PER 2022 CBC TABLE 11B-208.2

KEYNOTES

02.05	(E) ACCESSIBLE STAFF TOILET TO BE ALTERED.
02.06	(E) ACCESSIBLE STUDENT TOILETS (DSA APPL. #01-114437)
02.07	(E) ACCESSIBLE PARKING STALLS & AISLE. TO BE CERTIFIED AS PART OF THIS PROJECT.
02.10	DEMOLISH (E) PLAY STRUCTURE AND SURFACE-MOUNTED SAFETY TILES
08.02	EXISTING SECURITY DOUBLE DOOR (APPLICATION #01-114437). SEE DETAIL 12/A1.56. NOTE: NO DSA CERTIFICATION IS AVAILABLE. IT IS PART OF THIS PROJECT REQUIREMENTS TO CERTIFY THE SECURITY DOOR BASED ON FILED, VERIFIED DRAWINGS PROVIDED.
10.02	TOW AWAY SIGN AT PARKING LOT ENTRY. SEE DETAIL 6/A1.51
22.01	OUTDOOR DRINKING FOUNTAIN PEDESTAL. SEE DETAIL 7/A1.55.
22.04	HI-LO WALL-MOUNTED DRINKING FOUNTAIN WITH WING WALLS PROVIDED BY MODULAR BUILDING MANUFACTURER. SEE DETAILS 1 & 2/A-5.81 IN THE MODULAR PC DRAWINGS.
32.06	NEW ACCESSIBLE DOUBLE EGRESS GATE. SEE DETAIL 7/A1.51.
32.07	NEW ACCESSIBLE EGRESS GATE. SEE DETAIL 9/A1.51.
32.08	NEW ACCESSIBLE EGRESS GATE TO BE INSTALLED WITHIN EXISTING FENCE. GATE SIMILAR TO DETAIL 9/A1.51 - GATE WIDTH TO MATCH (E) OPENING IN FENCE (3'-0" MIN CLEAR OPENING WIDTH).
32.09	PROVIDE VAN ACCESSIBLE STALL. SEE DETAIL 2/A1.55 & SHEET C2.0. SHEET C2.0.

LEGEND

- ACCESSIBLE PATH OF TRAVEL (SEE NOTES ABOVE)
- NEW WORK/ BUILDING
- EXISTING BUILDING/ STRUCTURE TO REMAIN
- EXISTING STAFF OR STUDENT TOILET ROOM

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

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Architect

LICENSED ARCHITECT
LAWRENCE EDWARD SCHADT
No. C29266
REN. 8-31-27
STATE OF CALIFORNIA

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Daly City, CA 94015
2516.00

Sheet
SITE PLAN - ACCESSIBILITY

A1.10

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BUILDING CODE ANALYSIS

* BASED ON 2012 SURVEY WITH 2025 AUGMENTATIONS

(E) BUILDING "A"

DSA APPLICATIONS:	#01-32890, #01-34987 & #01-101202
USE (OCCUPANCY):	ADMINISTRATION (B)
CONSTRUCTION TYPE:	V-B (NOT SPRINKLERED)
ALLOWABLE AREA (2022 CBC):	9,000 SQUARE FEET
ACTUAL AREA:	2,750 SQUARE FEET

(E) BUILDING "C"

DSA APPLICATIONS:	#01-32880, #01-32890 & #01-101202
USE (OCCUPANCY):	CLASSROOM (E)
CONSTRUCTION TYPE:	V-B (NOT SPRINKLERED)
ALLOWABLE AREA (2022 CBC):	9,500 SQUARE FEET
ACTUAL AREA:	6,600 SQUARE FEET

(E) BUILDING "B"

DSA APPLICATIONS:	#01-32890, #01-34987 & #01-101202
USE (OCCUPANCY):	KINDERGARTEN (E)
CONSTRUCTION TYPE:	V-B (NOT SPRINKLERED)
ALLOWABLE AREA (2022 CBC):	9,500 SQUARE FEET
ACTUAL AREA:	2,670 SQUARE FEET

(E) BUILDING "D"

DSA APPLICATIONS:	#01-32890, #01-34987 & #01-101202
USE (OCCUPANCY):	CLASSROOM (B)
CONSTRUCTION TYPE:	V-B (NOT SPRINKLERED)
ALLOWABLE AREA (2022 CBC):	9,500 SQUARE FEET
ACTUAL AREA:	6,600 SQUARE FEET

(E) BUILDING "F"

DSA APPLICATIONS:	#01-114437
USE (OCCUPANCY):	LIBRARY (A-3)
CONSTRUCTION TYPE:	V-B (NOT SPRINKLERED)
ALLOWABLE AREA (2022 CBC):	6,000 SQUARE FEET
ACTUAL AREA:	1,498 SQUARE FEET

(E) BUILDING "E"

DSA APPLICATIONS:	#01-32880, #01-32890 & #01-101202
USE (OCCUPANCY):	MULTI-PURPOSE (A-3)
CONSTRUCTION TYPE:	V-B (NOT SPRINKLERED)
ALLOWABLE AREA (2022 CBC):	6,000 SQUARE FEET
ACTUAL AREA:	6,230 SQUARE FEET

(E) BUILDING "E": AREA INCREASE CALCULATIONS

A_a (ALLOWABLE AREA PER 2022 CBC TABLE 506.2:	6,000 S.F.
A_t (TABULAR AREA PER 2022 CBC TABLE 506.2):	6,000 S.F.
NS (TABULAR AREA PER 2022 CBC TABLE 506.2 FOR NON-SPRINKLERED BUILDINGS):	6,000 S.F.
I_f (AREA FACTOR INCREASE PER 2022 CBC SECTION 506.3):	0.25 FEET
$A_a = A_t\ (6,000) + (NS\ (6,000) \times I_f\ (0.25) =$	**7,500 SQUARE FEET**
6,230 S.F. (ACTUAL AREA) < 7,500 S.F. (ALLOWABLE AREA)	CONFORMS

(N) BUILDING "J" *:

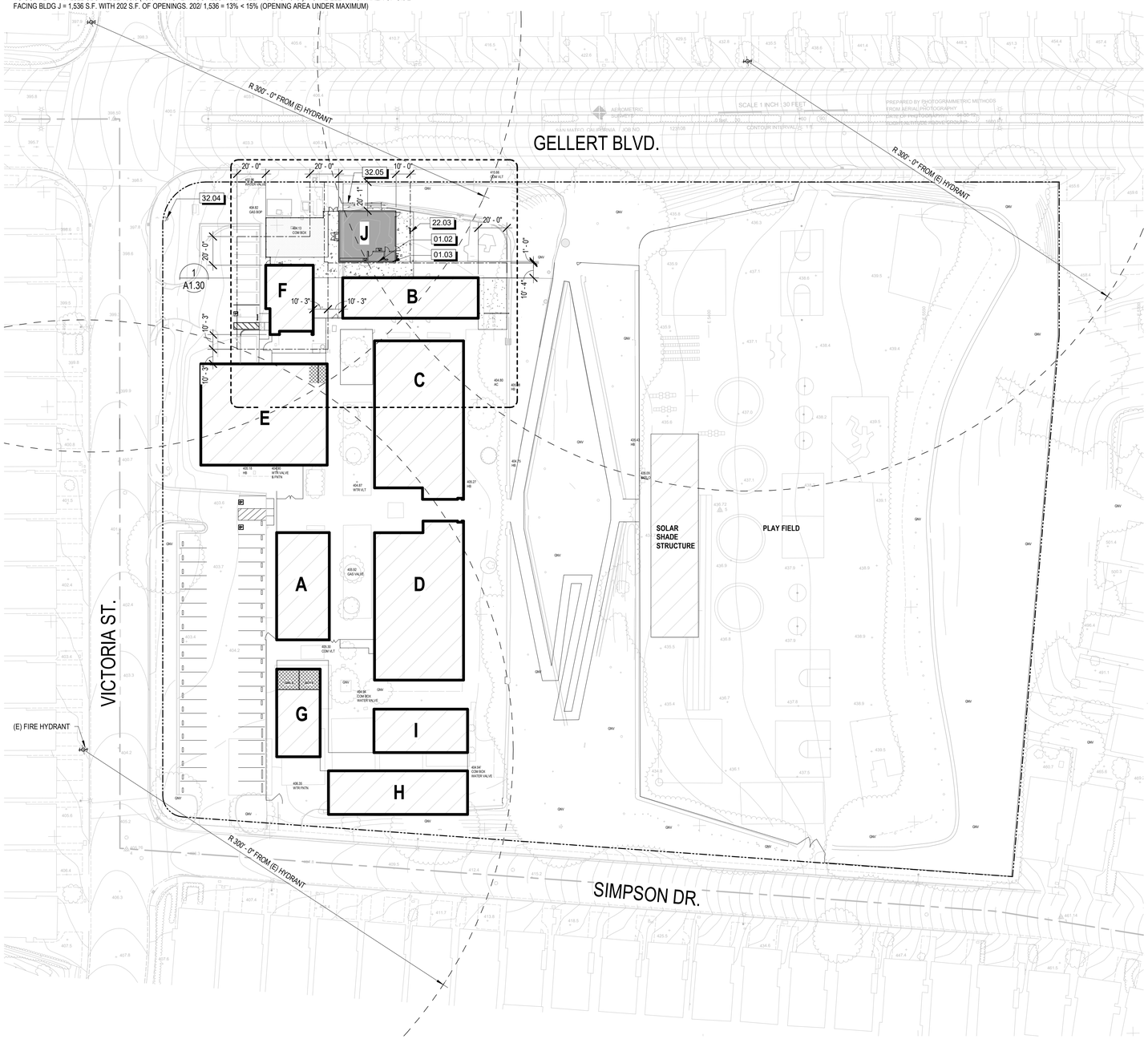
DSA APPLICATIONS:	THIS APPLICATION (01-122855)o
USE (OCCUPANCY):	T-K CLASSROOM (E)
CONSTRUCTION TYPE:	V-B (NOT SPRINKLERED)
ALLOWABLE AREA (2022 CBC):	9,500 SQUARE FEET
ACTUAL AREA:	1,430 SQUARE FEET

* **NOTE:** SEE KEYNOTES 1.02 & 1.03 (THIS SHEET) FOR COMPLIANCE WITH 2022 CBC TABLES 705.5 & 705.8.

(E) BUILDINGS "G, H, & I"

DSA APPLICATIONS:	#01-114437
USE (OCCUPANCY):	CLASSROOMS (E)
CONSTRUCTION TYPE:	V-B (NOT SPRINKLERED)
ALLOWABLE AREA (2022 CBC):	9,500 SQUARE FEET
ACTUAL AREA:	6,612 SQUARE FEET (TOTAL) 2,880 S.F. (BLDG H) 1,920 S.F. (BLDG I) 1,812 S.F. (BLDG G)

TO COMPLY WITH 2022 CBC TABLE 705.8 (15% MAX OPENINGS ALLOW BETWEEN 10'-0" & 15'-0"): TOTAL ELEVATION AREA OF SIDE FACING BLDG J = 1,536 S.F. WITH 202 S.F. OF OPENINGS. 202/ 1,536 = 13% < 15% (OPENING AREA UNDER MAXIMUM)



SITE PLAN - FIRE SAFETY ANALYSIS 1

SCALE: 1" = 40'-0"

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

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

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

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

PROJECT INFORMATION	
School District/Owner:	South San Francisco Unified School District
Project Name/School:	Junipero Serra Elementary School: New modular classroom building (approx. 1,350 s.f.)
Project Address:	151 Victoria Street, Daly City, CA 94015

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

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

	CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			X	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			X	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	X			
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			X	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				X
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Wazuddin Chowdhury Title: Director of Facilities & Safety

Signature: Wazi Chowdhury Digitally signed by Wazi Chowdhury Date: 2025.12.09 12:10:44 -08'00' Date: 12/09/25

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	NORTH COUNTY FIRE AUTHORITY
LFA Review Official:	Orlando Aguon
Title:	Safety Inspector/ Investigator — Work Phone: 650-759-0403
Work Email:	Oaguon@northcountyfire.gov

LFA Reviewer's Signature: Orlando Aguon Digitally signed by Orlando Aguon DN: cn=Orlando Aguon, o=North County Fire Authority, ou=Fire Prevention, email=Oaguon@northcountyfire.gov, c=US Date: 2025.12.17 08:45:11 -08'00' Date: 12/17/25

DSA FORM 810 3

SCALE: 12" = 1'-0"

Daly City Water and Wastewater Resources
Water Operations
Fire Hydrant Flow Data

Test date: 10/14/25
Test time: 1749
Test conducted by: SA
Test witnessed by: PA

Supply Zone
Reservoir #: 6
Lower pump station: Res 6
Pumps on during test: 0
Maximum storage level: 28.02
Minimum storage level: 12.02
Storage level during test: 7.94

Test Location		Static psi	Pitot psi	Orifice Size
		109	86	2.5"
Permit Number	WS-12-25-117371			
Grid Map Series	1969	Static psi	Pitot psi	Orifice Size
Grid Map #	D-11			2.5"
Hydrant #	22			
Water Main Diameter (in.)	8			
Address	598 Victoria St			

Static /Residual Location			
Grid Map Series	1969	Static psi	Residual psi
Grid Map #	D-11	96	83
Hydrant #	32		
Water Main Diameter (in.)	6		
Address	535 Gellert Blvd		

Observed Flow At Hydrant Tested	Observed GPM Flow Flow @ 20 PSI
1083	2810

Q= Q1 x (h/h*0.54)^(1/2)
Q= Flow available at desired residual pressure (20 PSI).
Q1= Observed Flow= 29.83cd^2√p Where: c=coefficient of 0.75, d^2=orifice diameter in inches squared, and √p=square root of the pitot pressure. (Calculated observed flow during test uses a pitot diffuser conversion for back pressure equal to a 0.75 coefficient.) *See note below.
H= Difference between static and desired residual pressure (20 PSI).
H1= Difference between static and actual residual pressure.

STATIC	RESIDUAL	PITOT	OBSERVED Q1	Q AT 20 PSI	H1	H	H1
93	83	80	1083	2810	10.27		4.60

Note: Fire systems are to be designed based on a public water main supply pressure not greater than sixty five (65) psi, regardless of the static pressures found to be greater. In cases where a fire flow is performed and the static presures are found to be lower than sixty five (65) psi then the lower pressure shall be used in the design of the fire system. DWWR, in consultation with the Fire Department, shall review designs not in keeping with this section.

Methods and formulas used in determining fire flow data conform to NFPA291 Recommended Practice for Fire Flow Testing and Marking of Hydrants, 1995 Edition.

Note: Observed flows were measured with a pitot diffuser and calculated to real flow based on the formula presented in the Journal of the AWWA, July, 1996, which calculates the internal diffuser pressure into flow.

Regardless of the result of the test, the City of Daly City Water/Wastewater Division assumes no liability beyond that stated in the following:

"The information was taken at a specific time and date and the utility water system varies in it's capability to meet the above criteria as a result of it's normal operation."

Greg Krauss, Chief of Operations

DWWR (12-9-2002 AGO) Updated (1-16-2007 AGO)

FIRE FLOW DATA 2

SCALE: 12" = 1'-0"

SHEET NOTES

1. SEE SHEET A1.10 FOR ACCESSIBILITY ANALYSIS.
2. SEE SHEET A1.12 FOR EGRESS ANALYSIS.

KEYNOTES

01.02	(N) BLDG J WALL (0' TO LESS THAN 3' PER 2022 CBC, TABLE 705.8) WITH NO OPENINGS PER TABLE 705.8). ALSO LESS THAN 5' = 1 HOUR-RATED PER 2022 CBC TABLE 705.5.
01.03	PARAPET AT (N) WALL (PER 2022 CBC, SECTION 705.11). FOR PARAPET DETAILS, SEE PC DRAWING DETAILS 3/A4.02N & 2/A3.02N.
22.03	HI-LO EXTERIOR PEDESTAL DRINKING FOUNTAIN
32.04	FIRE HYDRANT TO BE INSTALLED THIS PROJECT. SEE ALSO CIVIL DRAWINGS.
32.05	RELOCATED DRAINAGE SWALE - SEE ALSO CIVIL DRAWINGS

LEGEND

- EGRESS PATH
- ASSUMED PROPERTY LINE
- EXISTING FIRE HYDRANT
- NEW WORK/ BUILDING
- EXISTING BUILDING/ STRUCTURE TO REMAIN

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LAWRENCE EDWARD SCHADT
NO. C29266
REN. 8-31-27
STATE OF CALIFORNIA

Project
JUNIPERO SERRA ES MODULAR

151 Victoria St.
Daly City, CA 94015

2516.00

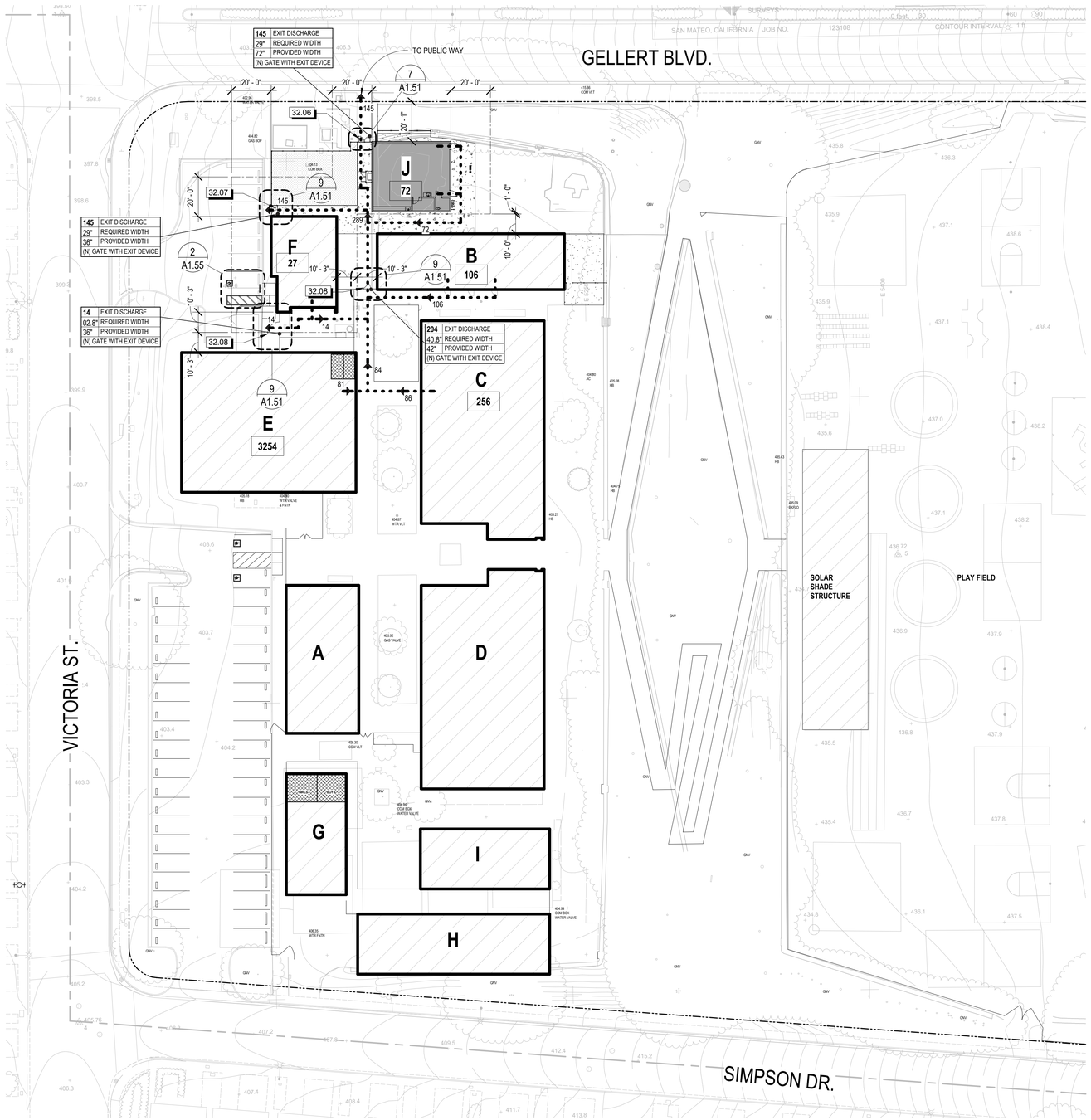
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SITE PLAN - FIRE SAFETY ANALYSIS

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SHEET NOTES

KEYNOTES

32.06	NEW ACCESSIBLE DOUBLE EGRESS GATE. SEE DETAIL 7/A1.51.
32.07	NEW ACCESSIBLE EGRESS GATE. SEE DETAIL 9/A1.51.
32.08	NEW ACCESSIBLE EGRESS GATE TO BE INSTALLED WITHIN EXISTING FENCE. GATE SIMILAR TO DETAIL 9/A1.51 - GATE WIDTH TO MATCH (E) OPENING IN FENCE (3'-0" MIN CLEAR OPENING WIDTH).

LEGEND

- BUILDING IDENTIFIER (E)
- OCCUPANT LOAD PER BUILDING (324)
- EGRESS LOAD
- EGRESS DIRECTION
- EGRESS PATH (81)
- ASSUMED PROPERTY LINE
- EXISTING FIRE HYDRANT
- NEW WORK/ BUILDING
- EXISTING BUILDING/ STRUCTURE TO REMAIN

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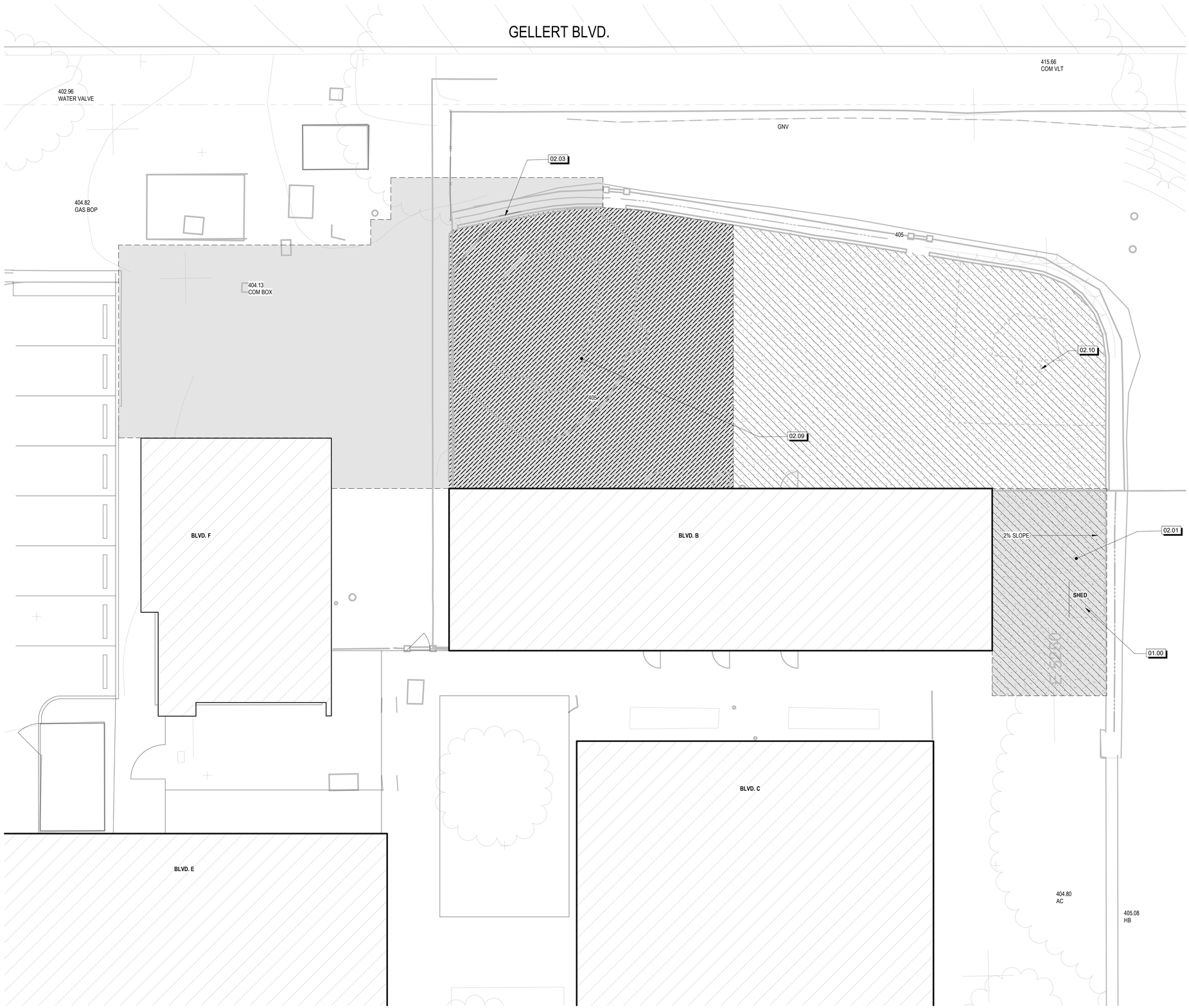
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SITE PLAN - EGRESS ANALYSIS

A1.12

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SITE PLAN - EGRESS ANALYSIS 1
SCALE: 1" = 30'-0"



ENLARGED SITE PLAN - DEMO 1

SCALE: 1/8" = 1'-0"

SHEET NOTES

KEYNOTES

01.00	RELOCATE (E) SHED
02.01	REPAVE ASPHALT TO UNDER 2% SLOPE
02.03	DEMO PORTION OF (E) FENCE, CONCRETE SEATWALL, AND SWALE AS SHOWN, AND REPOUR SWALE AND PROVIDE (N) FENCE
02.09	DEMOLISH (E) PLAY STRUCTURE (WITHIN FOOTPRINT OF NEW MODULAR BUILDING) AND SURFACE-MOUNTED SAFETY TILES
02.10	DEMOLISH (E) PLAY STRUCTURE AND SURFACE-MOUNTED SAFETY TILES

LEGEND

- (E) BUILDING AREA
- WORK OF SCOPE AREA
- DEMOLISH (E) CONC. AND (E) PLAY STRUCTURE AND ASSOCIATED GROUND COVER
- DEMOLISH (E) ASPHALT FOR REPAVING

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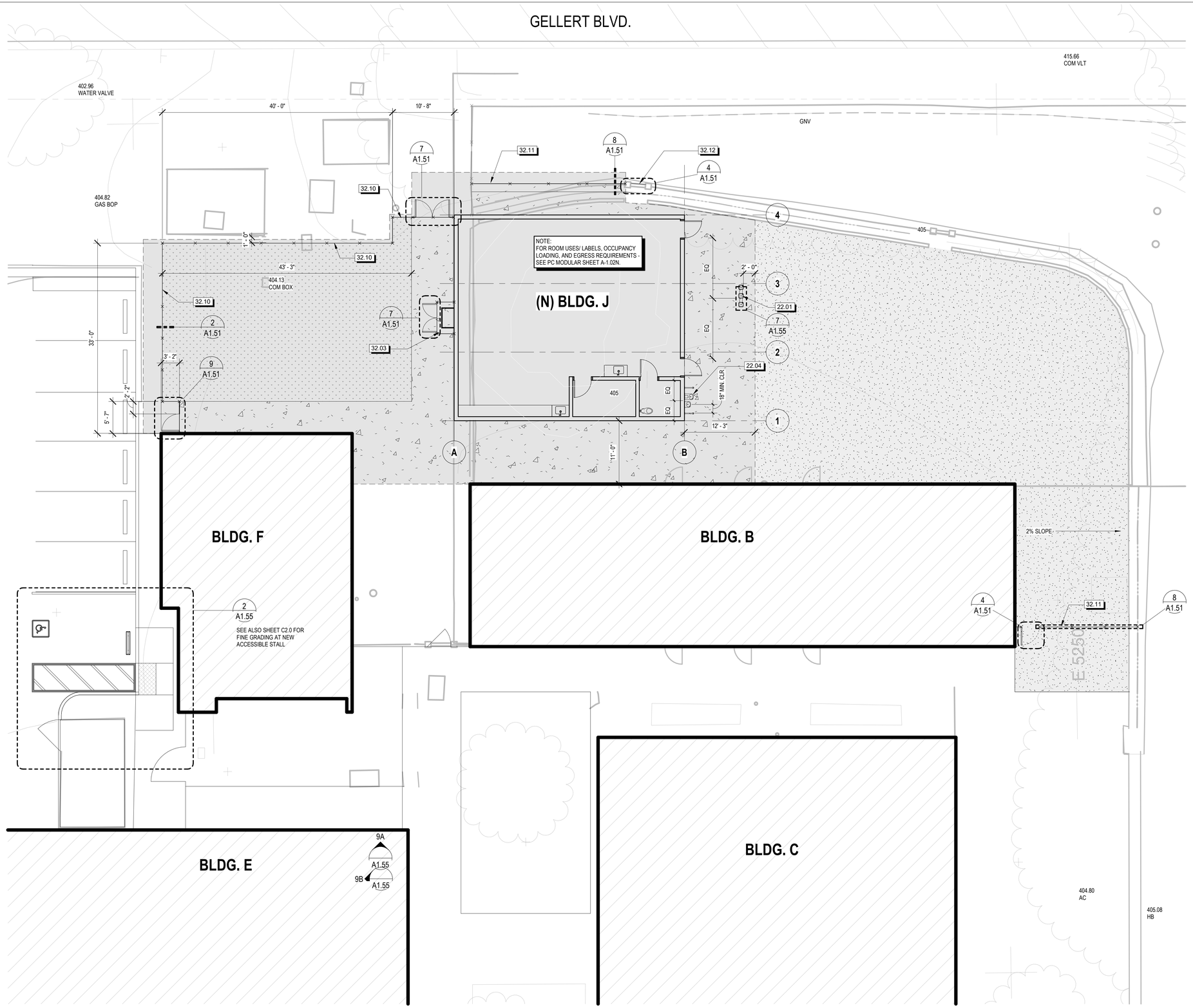
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ENLARGED SITE PLAN - DEMO

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SHEET NOTES

KEYNOTES

22.01	OUTDOOR DRINKING FOUNTAIN PEDESTAL. SEE DETAIL 7/A1.55.
22.04	HI-LO WALL-MOUNTED DRINKING FOUNTAIN WITH WING WALLS PROVIDED BY MODULAR BUILDING MANUFACTURER. SEE DETAILS 1 & 2/A-5.81 IN THE MODULAR PC DRAWINGS.
32.03	6'-0"H DOUBLE MAINTENANCE GATE SIMILAR TO DOUBLE GATE PER 7/A1.51. NO PANIC HARDWARE THIS LOCATION. USE INSTEAD, ACCESSIBLE PULL/ YOKE PER 3/A1.51.
32.10	6'-0"H CHAINLINK FENCE. SEE 2/A1.55.
32.11	4'-0"H CHAINLINK FENCE. SEE 8/A1.55.
32.12	REPLACE (E) 4'-0" GATE RESULTING FROM CONCRETE SWALE RE-ALIGNMENT. SEE4/A1.51

LEGEND

- SCOPE OF WORK AREA
- (E) BUILDING AREA
- LANDSCAPE
- CONCRETE
- ASPHALT

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

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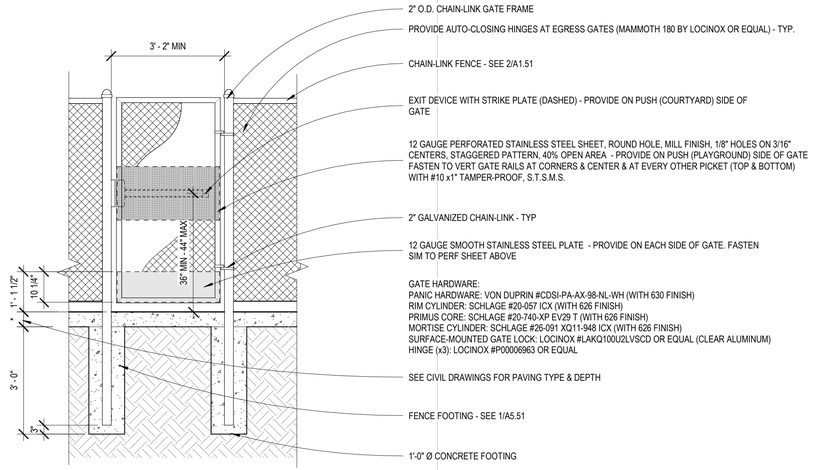
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ENLARGED SITE PLAN - NEW

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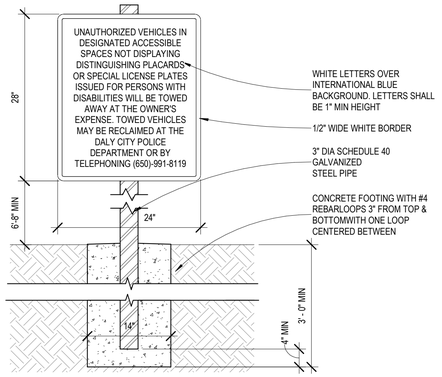
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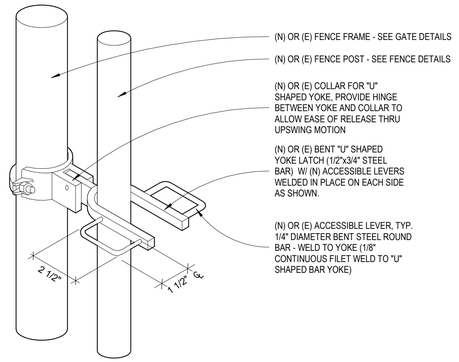
CHAIN-LINK GATE WITH PANIC HARDWARE - NOT PART OF STRUCTURAL REVIEW 9

SCALE: 1/2" = 1'-0"



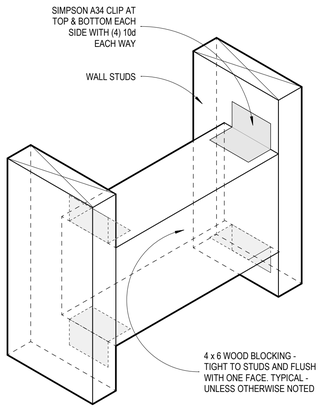
TOW-AWAY SIGN AT PARKING ENTRY 6

SCALE: 1" = 1'-0"



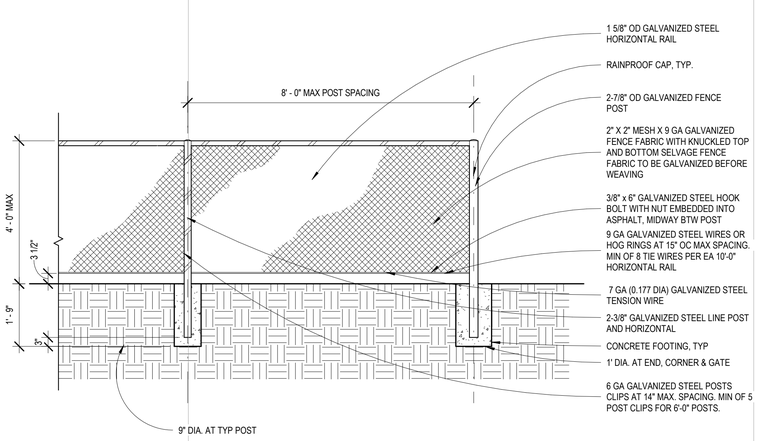
ACCESSIBLE PULL AT GATE 3

SCALE: 3" = 1'-0"



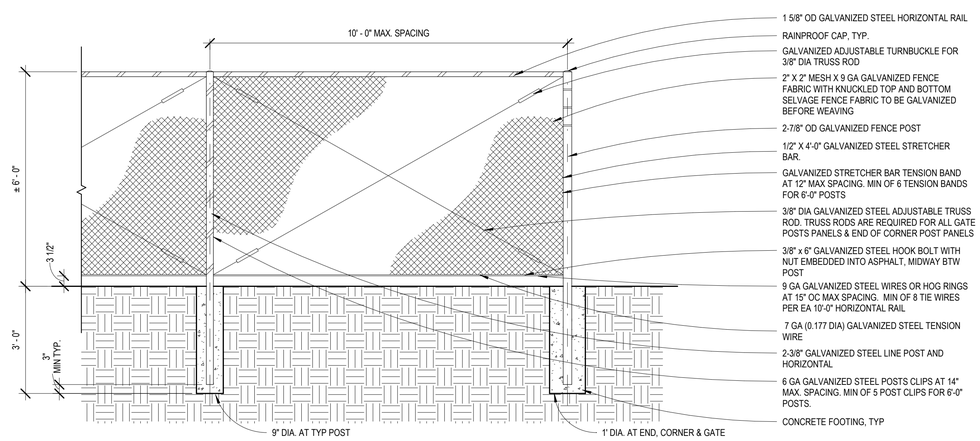
WOOD BLOCKING 11

SCALE: 3" = 1'-0"



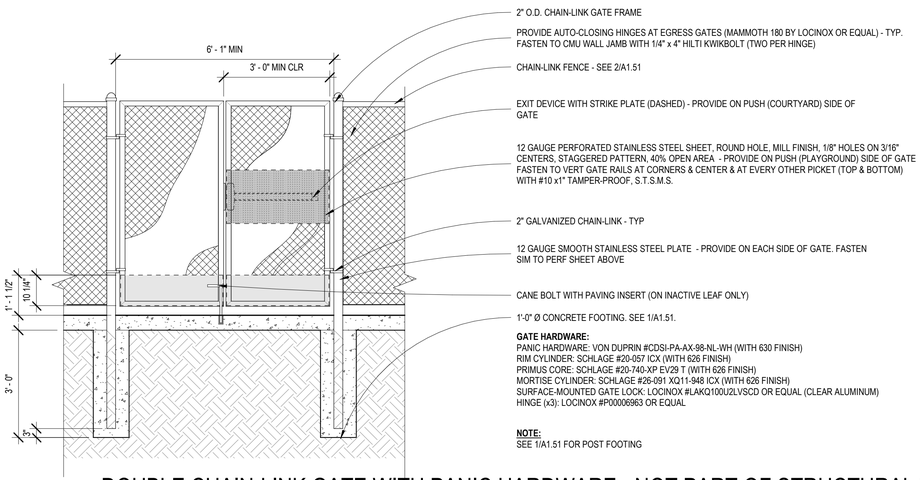
4'-0" CHAIN LINK FENCE - NOT PART OF STRUCTURAL REVIEW 8

SCALE: 1/2" = 1'-0"



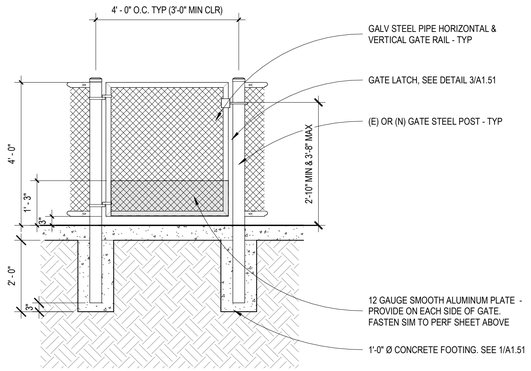
6'-0" CHAIN LINK FENCE - NOT PART OF DSA STRUCTURAL APPROVAL 2

SCALE: 1/2" = 1'-0"



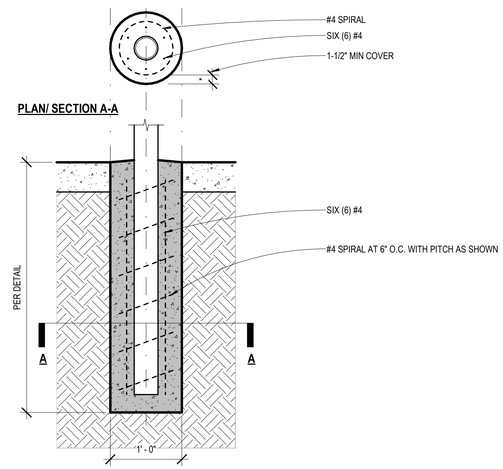
DOUBLE CHAIN-LINK GATE WITH PANIC HARDWARE - NOT PART OF STRUCTURAL REVIEW 7

SCALE: 1/2" = 1'-0"



4'-0" H CHAIN-LINK FENCE MAINTAINENCE GATE 4

NOT PART OF DSA STRUCTURAL APPROVAL SCALE: 1/2" = 1'-0"



CHAIN LINK FENCE & GATE FOOTING 1

SCALE: 1" = 1'-0"

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2	DSA: V2	01/14/26
3	DSA: V3	01/20/26

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Architect

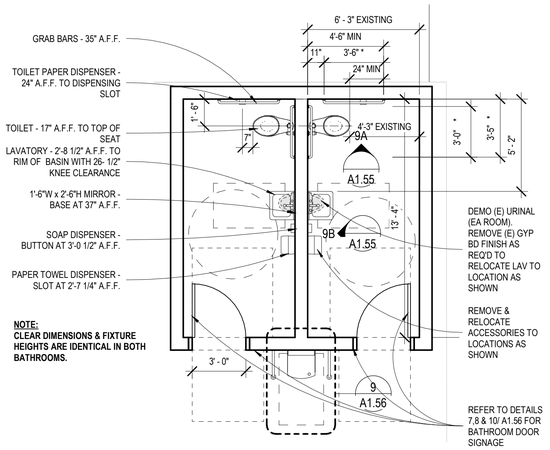
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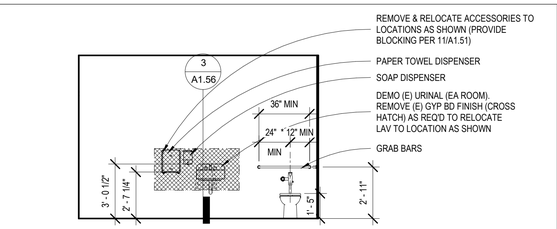
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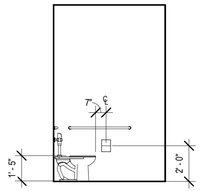
(E) ALTERATIONS TO RESTROOMS IN BLDG E 12

SCALE: 1/4" = 1'-0"



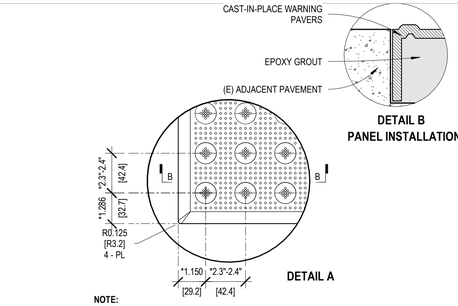
BLDG E RESTROOM - TYP ELEVATIONS 9B

SCALE: 1/4" = 1'-0"

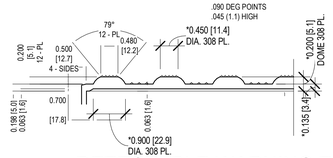


BLDG E RESTROOM - TYP ELEVATION 9A

SCALE: 1/4" = 1'-0"

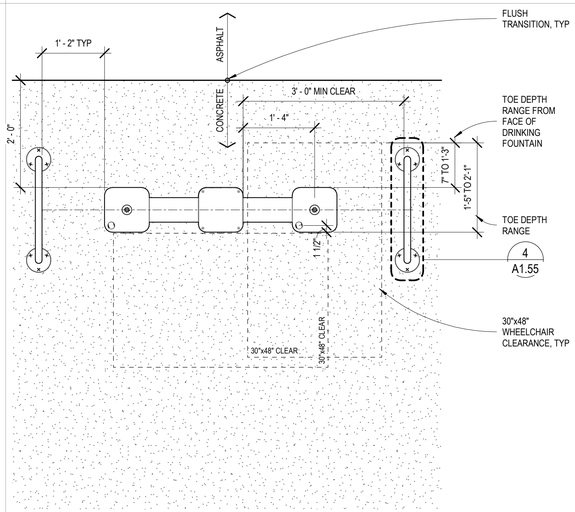


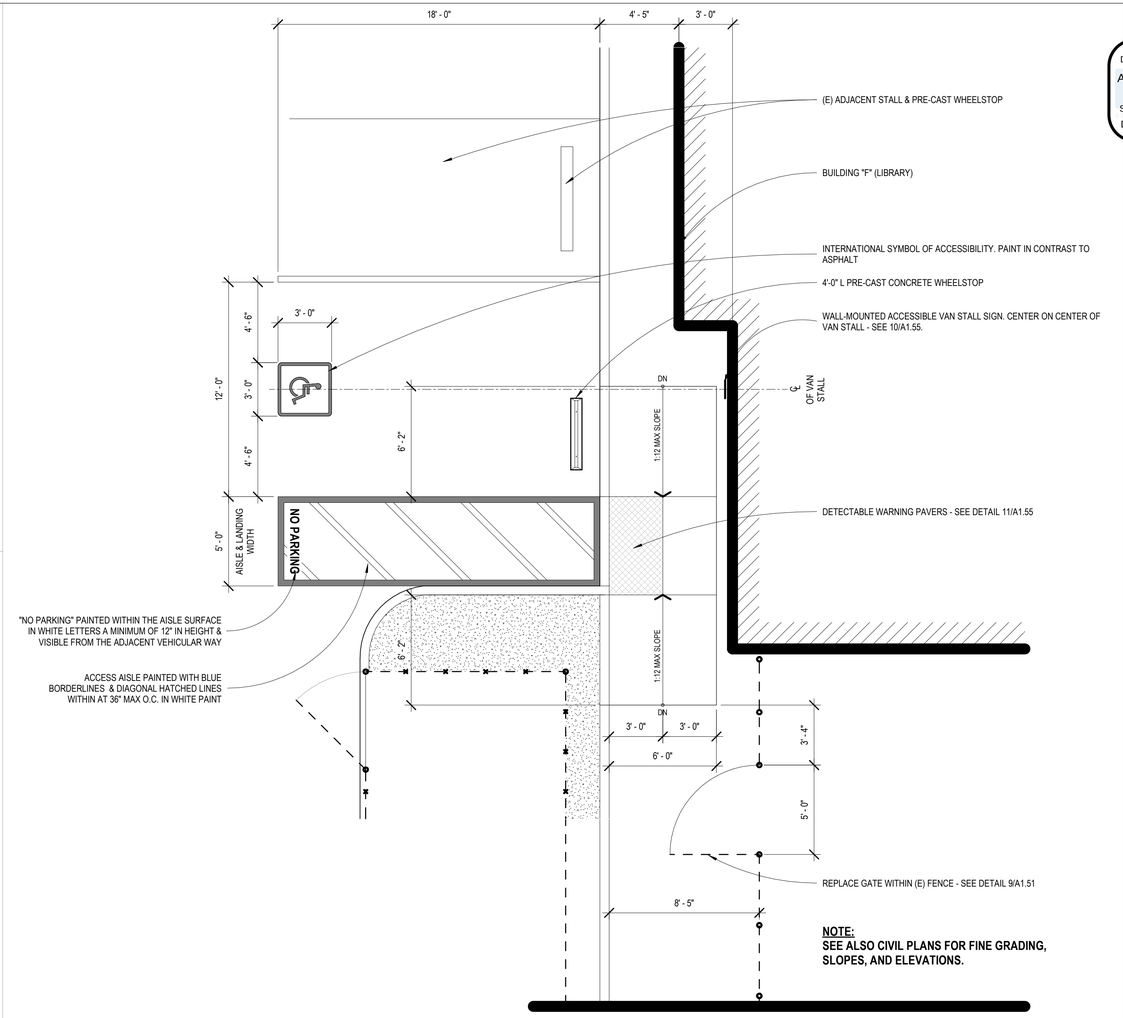
NOTE:
SURFACE TRUNCATED DOMES TO BE YELLOW. APPROXIMATE FS 33538 OF FEDERAL STANDARD 595C.



DETECTABLE WARNING TILES 11

SCALE: 12" = 1'-0"

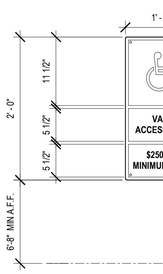




NOTE:
SEE ALSO CIVIL PLANS FOR FINE GRADING, SLOPES, AND ELEVATIONS.

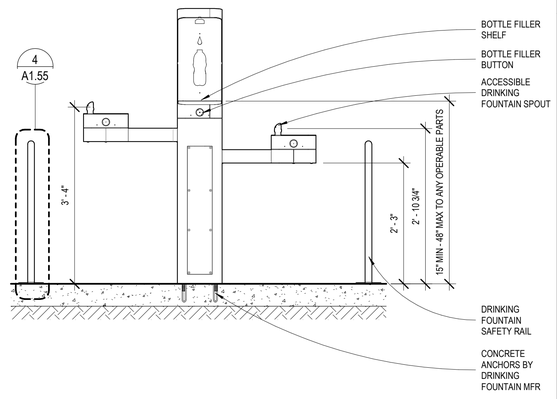
NEW ACCESSIBLE VAN STALL 2

SCALE: 1/4" = 1'-0"



WALL-MOUNTED ACCESSIBLE STALL SIGN 10

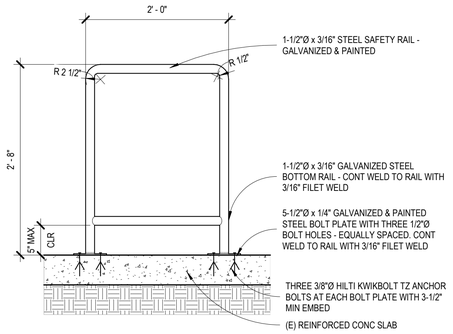
SCALE: 1" = 1'-0"



2022 CBC SECTION 11B-602.6 WATER FLOW
THE SPOUT SHALL PROVIDE A FLOW OF WATER 4" HIGH MIN. AND SHALL BE LOCATED 5" 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" OFF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAX. WHERE SPOUTS ARE LOCATED BETWEEN 3" & 5" FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAX.

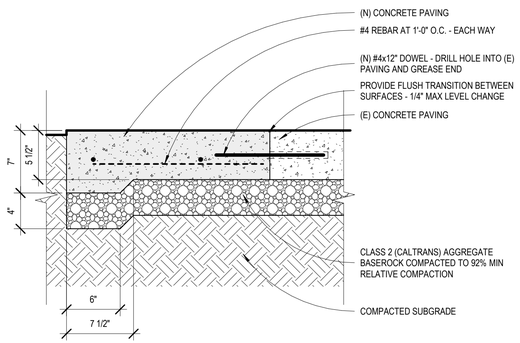
PEDESTAL DRINKING FOUNTAIN 7

SCALE: 3/4" = 1'-0"



DRINKING FOUNTAIN SAFETY RAIL 4

SCALE: 1" = 1'-0"



CONCRETE PAVING TO (E) PAVING 1

SCALE: 1 1/2" = 1'-0"

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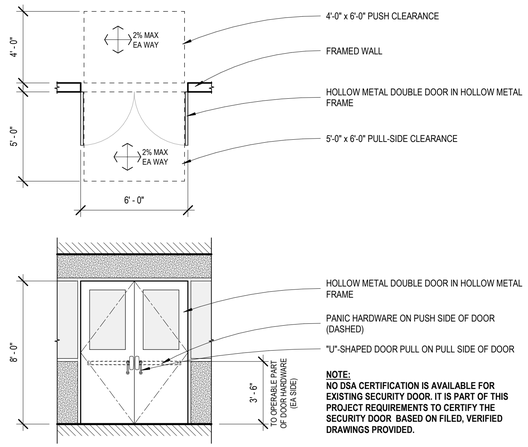
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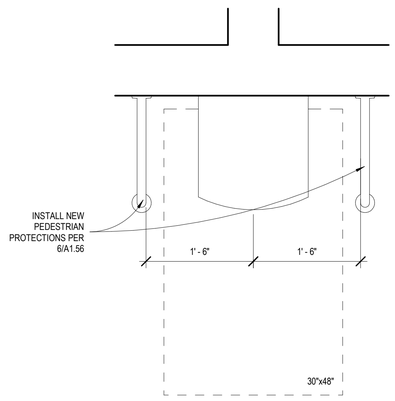
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NOTE:
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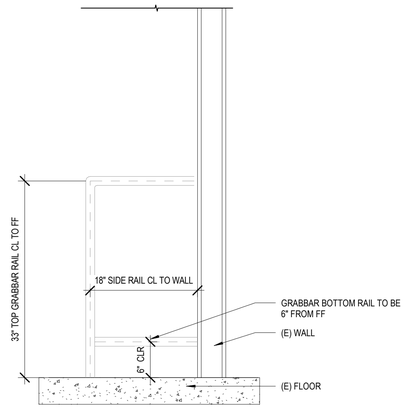
(E) SECURITY DOOR 12

SCALE: 1/4" = 1'-0"



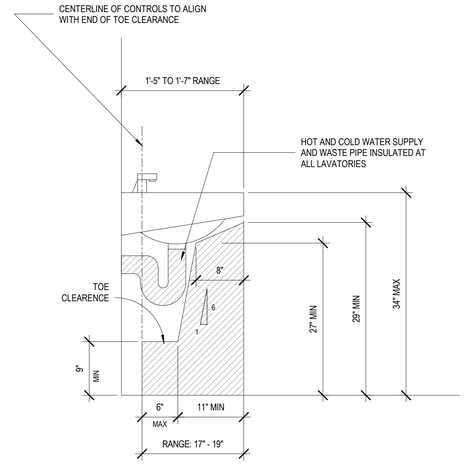
(E) DRINKING FOUNTAIN 9

SCALE: 1" = 1'-0"



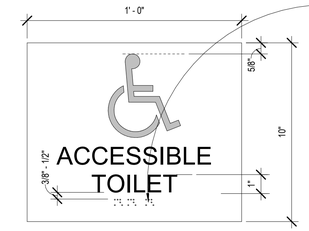
DRINKING FOUNTAIN PEDESTRIAN PROTECTION 6

SCALE: 1" = 1'-0"



LAVATORY KNEE CLEARANCE 3

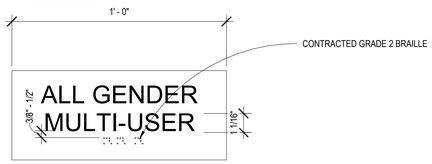
SCALE: 1" = 1'-0"



A - ROOM NAME (LATCH SIDE OF DOOR)
ALL GENDER, ACCESSIBLE RESTROOM SIGN - FRONT VIEW

B - GEOMETRIC SYMBOL
(ON DOOR AT ACCESSIBLE RESTROOMS ONLY)

TYPE G1



A - ROOM NAME (LATCH SIDE OF DOOR)
ALL GENDER RESTROOM SIGN - FRONT VIEW

TYPE G2

SIGNAGE GENERAL NOTES:

1. SYMBOLS AND LETTERS OF TACTILE SIGNS TO BE RAISED MIN. 1/32" (0.794mm) ABOVE SIGN/PLAQUE SURFACE TYPICAL, TEXT TO BE SANS-SERIF-UPPERCASE ACCOMPANIED BY GRADE 2 BRAILLE.
2. ALL SYMBOLS AND LETTERS TO HAVE A COLOR WHICH CONTRASTS WITH SIGN BACKGROUND COLOR THAT MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.
3. ALL SIGNS TO HAVE A COLOR WHICH CONTRASTS WITH DOOR COLOR.
4. ALL PLAQUES TO HAVE A COLOR WHICH CONTRASTS WITH WALL ADJACENT TO LATCH SIDE OF DOOR.
5. REFER TO DETAIL 7 THIS SHEET FOR SIGN/PLAQUE LOCATION INFO.
6. WHERE GLAZING OCCURS ADJACENT TO DOOR, ATTACH PLAQUE WITH ADHESIVE TO GLAZING & PROVIDE BACKING PLATE OF SAME COLOR AS PLAQUE TO BE APPLIED TO REVERSE SIDE OF GLASS.
7. RAISED CHARACTER SHALL BE A MINIMUM OF 5/8" (15.9mm) & MAXIMUM OF 2" (51mm) HIGH.
8. CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. 117B.5.3.
9. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10" (2.54mm) ON CENTERS IN EACH CELL WITH 2/10" (5.08mm) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40" (0.635mm) ABOVE THE BACKGROUND. 1117B.5.6. RECOMMENDED ROUNDED OR DOMED CALIFORNIA BRAILLE DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.
10. BRAILLE SHALL BE POSITIONED BELOW CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT, OR CENTERED. IF TECT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT.
11. MOUNT ALL TACTILE SIGNS PER DETAIL 3 ON THIS SHEET.
12. SIGNS SHALL BE FIELD INSPECTED PER 2022 CBC 11B-703.1.1

TYP BATHROOM SIGNAGE 8

SCALE: 3" = 1'-0"

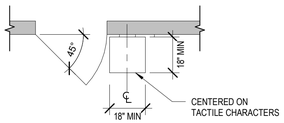
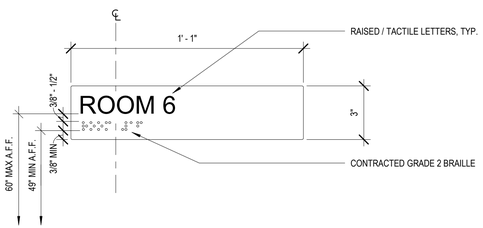
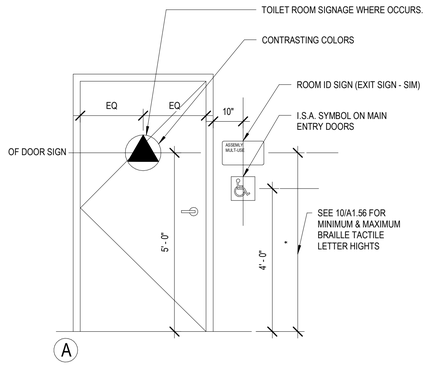


FIGURE 11B-703.4.2
LOCATION OF TACTILE SIGNS AT DOORS



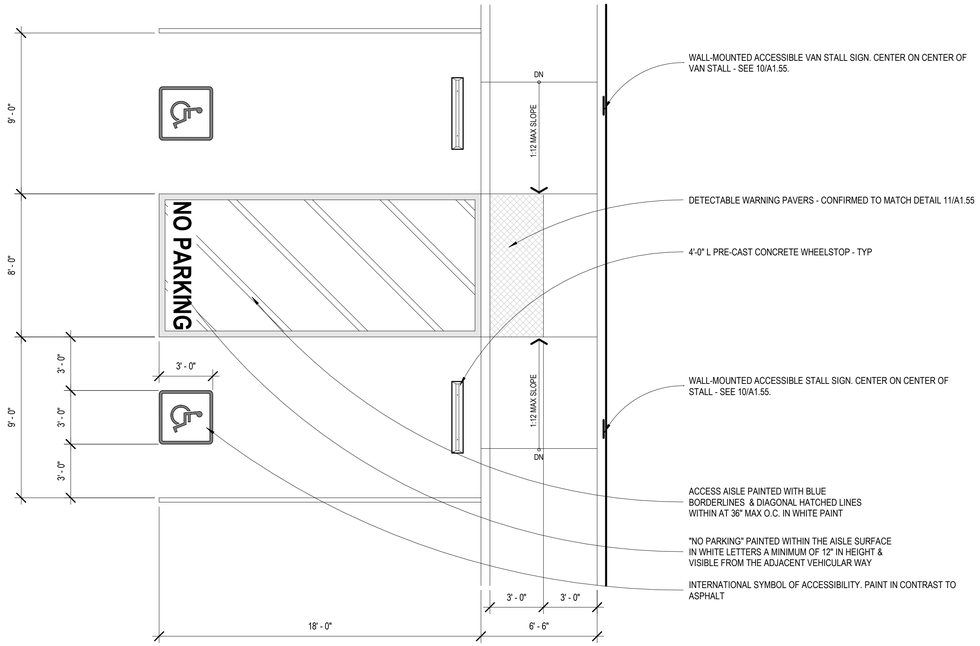
TYP CHARACTER & BRAILLE HEIGHTS 10

SCALE: 3" = 1'-0"



TYP DOOR SIGNAGE LOCATION 7

SCALE: 1/2" = 1'-0"



NOTE:
NO DSA CERTIFICATION IS AVAILABLE FOR EXISTING ACCESSIBLE STALLS IN PARKING LOT "A". IT IS PART OF THIS PROJECT REQUIREMENTS TO CERTIFY THE PARKING STALLS BASED ON FILED, VERIFIED DRAWINGS PROVIDED.

EXISTING ACCESSIBLE PARKING STALLS 1

SCALE: 1/4" = 1'-0"

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Architect

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GENERAL ELECTRICAL NOTES

1. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
2. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING JOB CONDITION. HE SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE HAD VISITED THE CONSTRUCTION SITE, PRIOR TO SUBMITTING HIS BID PROPOSAL. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART. DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING TEMPORARY FACILITIES AND CONNECTIONS REQUIRED FOR THE DURATION OF THE PROJECT.
3. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS, AND PAY ANY AND ALL FEES AS REQUIRED.
4. EXISTING ARCHITECTURAL SURFACES DISTURBED DURING CONSTRUCTION SHALL BE PATCHED AND PAINTED TO MATCH EXISTING.
5. WORK SHOWN IN THESE PLANS ARE NEW, UON. INSTALLATION SHALL BE CONCEALED. WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT AND ENGINEER FOR EXPOSED INSTALLATION. A WRITTEN APPROVAL IS REQUIRED. USE SURFACE RACEWAYS, WIREMOLD, OR EQUAL. ALL ELECTRIC MATERIALS, DEVICES, AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. APPROVED
6. ALL CONDUIT SHALL BE 3/4" MINIMUM. ALL CONDUIT SHALL BE RUN PARALLEL TO EXISTING SURFACES. WHEN CONDUIT CROSSES CORRIDORS OR ROOMS IT SHALL BE DONE PERPENDICULAR TO WALLS.
7. PAINT ALL SURFACE MOUNTED CONDUITS AND FITTINGS TO MATCH ADJACENT SURFACE. CONFIRM COLOR WITH OWNER.
8. ALL EXPOSED CONDUITS SHALL BE MOUNTED WITH 2-HOLE STRAPS.
9. CONDUIT CONNECTORS SHALL BE COMPRESSION TYPE.
10. SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS. FURNISH AND INSTALL FIRE RATED BACKBOXES AS REQUIRED TO MAINTAIN FIRE RATING OF CEILING OR WALLS WHERE RECESSED ELECTRIC EQUIPMENT SUCH AS LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANEL, ETC. ARE INSTALLED IN RATED WALL OR CEILINGS. PENETRATIONS OF FIRE RATED WALLS, CEILINGS, OR FLOORS SHALL COMPLY WITH CBC CHAPTER 7 REQUIREMENTS. IN WALLS AND PARTITIONS THAT ARE FOR FIRE RESISTIVE CONSTRUCTION, OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES SHALL NOT EXCEED 16 SQUARES INCHES. IN ADDITION, THE AGGREGATE AREA OF SUCH OPENING SHALL NOT EXCEED 100 SQ IN FOR ANY 100 SQUARE FEET OF WALL OR PARTITION. OUTLET BOXES ON OPPOSITE SIDES OF THE WALLS OR PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES, OR BE PROVIDED WITH FIRE PUTTY.
11. ALL NEW WIRING SHALL BE IN CONDUIT. COORDINATE ROUTING OF CONDUIT WITH ARCHITECT AND STRUCTURAL FOR OPENINGS IN WALLS AND ANY NOTCHING OF JOISTS.
12. THE ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL OF THE ARCHITECTURAL DETAILS OR SPECIFICS OF ELECTRICAL CONSTRUCTION. TAKE ALL DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, CONDUIT RUNS, ETC. WITH ARCHITECT AND OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN. SEE ELECTRICAL SECTION OF ARCHITECTURAL SPECIFICATION FOR ADDITIONAL INFORMATION.
13. PULLROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER.
14. ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL BE OF WEATHERPROOF CONSTRUCTION. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED WATER TIGHT.
15. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING (IE. MAXIMUM FUSE SIZE MEANS FUSE PROTECTION IS REQUIRED).
16. ALL EQUIPMENT MANUFACTURERS SHALL BE NOTED IN DRAWINGS. SUBSTITUTIONS ARE PERMITTED BUT MUST BE APPROVED EQUAL.
17. CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH A MINIMUM OF 24" OF WEATHERPROOF FLEXIBLE CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION TO THE STRUCTURE. COORDINATE ALL MOTOR OVERLOADS AND/OR FUSES FURNISHED BY THIS CONTRACT WITH THE ACTUAL EQUIPMENT INSTALLED. SIZE OVERLOADS BASED ON MOTOR NAMEPLATE FULL LOAD CURRENT AND SERVICE FACTOR. FUSES FOR MOTOR AND TRANSFORMER CIRCUITS SHALL BE DUAL ELEMENT. FUSES FOR OTHER "NON-INRUSH" LOADS SHALL BE FAST ACTING. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK5 OR CLASS L, UON. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR MANUFACTURER INSTALLATION REQUIREMENTS.
18. SEE MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION OF FANS AND WATER HEATERS.
19. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS.
20. GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS AND SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC ARTICLE 250.
21. FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR AND RECEPTACLE MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR MANUFACTURER INSTALLATION REQUIREMENTS.
22. ELECTRICAL CONTRACTOR TO PROVIDE EXPANSION FITTINGS AT ALL EXPANSION JOINT LOCATION. USE STEEL FLEX 6 FEET EACH SIDE OF THE JOINT AND TERMINATE IN A PULLBOX AT EACH END, OR OTHER APPLIED METHODS.
23. ALL LIGHTING FIXTURE LOCATIONS AND ROUTING SHALL BE REVIEWED BY ARCHITECT PRIOR TO ROUGH-IN.
24. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MAINTAIN A MINIMUM OF 36" CLEARANCE PER NEC ARTICLE 110.26.
25. PENETRATIONS OF FIRE RATED WALLS CEILINGS OR FLOORS SHALL COMPLY WITH CBC CHAPTER 7 REQUIREMENTS.
26. WHERE OUTLET BOXES ARE INSTALLED WITHIN RATED ASSEMBLIES, PROVIDE 3M MOLDABLE PUTTY PADS OR EQUAL TO MAINTAIN FIRE RATED ASSEMBLIES.
27. ALL RECEPTACLES SHALL BE GROUNDING TYPE.
28. ALL RECEPTACLES INSTALLED IN BATHROOMS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
29. CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC UTILITY.
30. SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION.
31. PERFORMANCE AND WITNESSING OF TESTS
    - A. THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR FIRM TO PERFORM ALL REQUIRED TESTS.
    - B. ALL NEW AND RECONNECTED ELECTRICAL CIRCUIT SHALL BE TESTED TO INSURE CIRCUIT CONTINUITY, INSULATION RESISTANCE, PROPER SPLICING AND GROUNDING IN ACCORDANCE WITH THE LATEST STANDARDS AS STATED ABOVE. BEFORE CONNECTING POWER CABLES TO MOTORS, THE INSULATION RESISTANCE OF ALL MOTOR WINDINGS SHALL BE TESTED IN ACCORDANCE WITH THE ABOVE STANDARDS.
    - C. ANY CONTRACTOR FURNISHED AND/OR INSTALLED SPLICE, RECOMMENDED VOLTAGE AND INSULATION RESISTANCE TESTS, SHALL BE CONNECTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
    - D. NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TESTS AND ADJUSTMENTS HAVE BEEN MADE.
    - E. THREE COPIES OF ALL TEST RESULTS SHALL BE DELIVERED TO THE OWNER.
32. SPECIFY ELECTRICAL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE OUTLET BOX AND NO LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM.
33. SPECIFY ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES TO BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE RECEPTACLE HOUSING AND NO LESS THAN 15" MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM.

SYMBOLS (NOT ALL USED)

GENERAL SYMBOLS

# / X	# = DETAIL NUMBER X = SHEET NUMBER
XX-#	MECHANICAL/PLUMBING EQUIPMENT TAG. (X = EQUIPMENT TYPE, # = EQUIPMENT NUMBER). REFER TO MECHANICAL AND PLUMBING DRAWINGS.
—OH— OH—	ELECTRICAL WIRING OVERHEAD
	ENLARGED PLANS
	BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED IN CEILING OR WALL.
	BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND.
	CONDUIT STUBBED THROUGH WALL.
M	MAST AND WEATHERHEAD ABOVE ROOF FOR AERIAL INSTALLATION.
	BRANCH CIRCUIT HOMERUN TO PANEL.
	REQUIRED WORKING CLEARANCE PER NEC 110.26.
X	LIGHT FIXTURE TAG (X = FIXTURE TYPE). REFER TO LIGHTING FIXTURE SCHEDULE.

POWER SYSTEM SYMBOLS

J	JUNCTION OR OUTLET BOX, WALL MOUNTED +15" AFF. TO THE BOTTOM OF BOX UON.
J	JUNCTION OR OUTLET BOX, MOUNTED ABOVE CEILING.
J	JUNCTION BOX, UNDER FLOOR OR UNDERGROUND.
$T	HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.
	FUSED DISCONNECT SWITCH WITH DUAL ELEMENT FUSED (UON).
	DUPLEX RECEPTACLE 20A, 120V, 3W, NEMA 5-20R. FLUSH MOUNTED +15" AFF. TO THE BOTTOM OF BOX UON.
GFCI	DUPLEX RECEPTACLE 20A, WITH GROUND FAULT CIRCUIT INTERRUPTER, +42" AFF. TO THE BOTTOM OF BOX UON.
	DUPLEX RECEPTACLE 20A, 120V, 3W, NEMA 5-20R. FLUSH MOUNTED ABOVE COUNTER OR +42" AFF. TO THE BOTTOM OF BOX UON.
	DUPLEX RECEPTACLE, 20A, 120V, 32, NEMA 5-20R FLUSH MOUNTED IN CEILING.
	QUAD RECEPTACLE, 20A, 120V, 3W, (2) NEMA 5-20R. FLUSH MOUNTED +15" AFF. TO THE BOTTOM OF BOX UON.
	PANEL BOARD 120/208V, 3 PHASE, 4 WIRE FLUSH/SURFACE MOUNTED.

LIGHTING CONTROL SYSTEM SYMBOLS

a,b / D#	LOW VOLTAGE DIMMER SWITCH FOR MULTIPLE ZONES. (# = NUMBER OF CONTROLLED ZONE AND a,b = ZONE)
X / $ $	SINGLE POLE THROW SWITCH AND BOX, WALL MOUNTED, +48" AFF TO TOP OF BOX. • X = SWITCH TYPE: 3 = THREE WAY, D = DIMMER, AND OS = OCCUPANCY SENSOR.
OS VS	LIGHTING SENSOR, CEILING MOUNTED. OS = CONFIGURE FOR OCCUPANCY AND VS = CONFIGURE FOR VACANCY.
OS VS	LIGHTING SENSOR, WALL MOUNTED. OS = CONFIGURE FOR OCCUPANCY AND VS = CONFIGURE FOR VACANCY.

LOW VOLTAGE SYSTEM SYMBOLS - NOTE: CABLING SHALL BE CAT 6A FOR THESE OUTLETS.

#▷	DATA OUTLET, FLUSH IN WALL WITH 1-1/4"C TO TELECOM ROOM OR ACCESSIBLE CEILING SPACE. # = CABLES PER OUTLET.
▷	DATA OUTLET, FLUSH IN FINISHED CEILING WITH 1-1/4"C TO TELECOM ROOM OR ACCESSIBLE CEILING SPACE. TWO (2) CABLES PER OUTLET.
▶	PHONE OUTLET, FLUSH IN WALL WITH 1-1/4"C TO TELECOM ROOM OR ACCESSIBLE CEILING SPACE. ONE (1) CABLE PER OUTLET.
▶	DATA/PHONE OUTLET, FLUSH IN WALL WITH 1-1/4"C TO TELECOM ROOM OR ACCESSIBLE CEILING SPACE. TWO (2) CABLES PER OUTLET.
WAP ▷	WAP OUTLET, FLUSH IN FINISHED CEILING WITH 1-1/4"C TO TELECOM ROOM OR ACCESSIBLE CEILING SPACE, AS APPLICABLE. TWO (2) CABLES PER OUTLET.
C/S	CLOCK/SPEAKER OUTLET, FLUSH IN WALL WITH 1-1/4"C TO TELECOM ROOM OR ACCESSIBLE CEILING SPACE. TWO (2) CABLES PER OUTLET.

SCOPE OF WORK

1. POWER SYSTEM
   - PROVIDE POWER CONNECT TO NEW MODULAR INFRASTRUCTURE.
   - CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF ELECTRICAL EQUIPMENT AND FEEDER PATHWAYS PRIOR TO WORK.
2. LIGHTING SYSTEM
   - LIGHTING FIXTURES AND CONTROLS ARE INSTALLED WITH PRE-FABRICATED MODULAR.
3. TELECOMMUNICATIONS SYSTEM
   - F/I (N) CONDUIT WITH PULL STRING AND BOXES.
   - DEVICES SHOWN FOR REFERENCE.

ABBREVIATIONS

(E)	EXISTING TO REMAIN	MTD	MOUNTED
(F)	FUTURE	MV	MEDIUM VOLTAGE
(N)	NEW	N	NEUTRAL
(RR)	REMOVE AND RELOCATE	N.E.C.	NATIONAL ELECTRICAL CODE
A	AMPERE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
AC	ALTERNATING CURRENT	NEUT	NEUTRAL
AF	AMPERE RATING OF FUSE	NIC	NOT IN CONTRACT
AFCI	ARC FAULT CIRCUIT INTERRUPTER	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	OS	OCCUPANCY SENSOR
AV	AUDIO/VISUAL	OSD	OCCUPANCY SENSOR DIMMER
BS	BRANCH SELECTOR	P	POLE
C	CONDUIT	PB	PULL BOX
CKT	CIRCUIT	PH	PHASE
CU	CONDENSING UNIT	PNL	PANEL
D	DEDICATED	POS	POINT OF SALE
DIM	DIMMABLE	RSC	RIGID STEEL CONDUIT
EC	ELECTRICAL CONTRACTOR	SAD	SEE ARCHITECTURAL DRAWINGS
EF	EXHAUST FAN	SAVD	SEE AUDIO/VISUAL DRAWINGS
ELEC	ELECTRICAL	SCD	SEE CIVIL DRAWINGS
EM	EMERGENCY	SLD	SEE LANDSCAPE DRAWINGS
EMT	ELECTRICAL METALLIC TUBING	SLDG	SINGLE LINE DIAGRAM
F/I	FURNISH AND INSTALL	SMD	SEE MECHANICAL DRAWINGS
FACP	FIRE ALARM CONTROL PANEL	SPD	SEE PLUMBING DRAWINGS
FATC	FIRE ALARM TERMINAL CAN	SPEC	SPECIFICATION
FC	FAN COIL	T	TELEPHONE
FSD	FIRE SMOKE DAMPER	TYP	TYPICAL
G	GROUNDING CONDUCTOR	TV	TELEVISION
GFI	GROUND FAULT INTERRUPTER	UG	UNDERGROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UAC	UNDER ANOTHER CONTRACT
GND	GROUND	UON	UNLESS OTHERWISE NOTED
HP	HORSEPOWER	V	VOLT
HV	HIGH VOLTAGE	VP	VANDAL PROOF
kVA	KILOVOLT AMPS	VS	VACANCY SENSOR
kW	KILOWATTS	VSD	VACANCY SENSOR DIMMER
LC	LOAD CENTER	W	WATTS
LTG	LIGHTING	WP	WEATHERPROOF (NEMA 3R)
LTS	LIGHTS	WT	WATERTIGHT
LV	LOW VOLTAGE	XFMR	TRANSFORMER
MC	MEDIA CABINET		
MECH	MECHANICAL		

APPLICABLE CODES

1. 2025 BUILDING STANDARD ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
4. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
5. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
6. 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
7. 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
9. 2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
10. 2022 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R.
11. 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
12. TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

NFPA 13, AUTOMATIC SPRINKLER SYSTEM, 2022 EDITION
NFPA 14, STANDPIPE AND HOSE SYSTEMS, 2019 EDITION
NFPA 72, NATIONAL FIRE ALARM CODE, 2022 EDITION
LOCAL MUNICIPAL BUILDING CODES

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E1.30	ENLARGED ELECTRICAL SITE PLAN - NEW
E7.10	SINGLE LINE DIAGRAM
E9.10	TECHNICAL SPECIFICATIONS
E9.11	TECHNICAL SPECIFICATIONS
E9.12	TECHNICAL SPECIFICATIONS
E9.13	TECHNICAL SPECIFICATIONS

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GELFAND PARTNERS ARCHITECTS
165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

FILE#
APPL #

Client

Consultants

EDesignC Incorporated
583 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104
(415) 963-4303
203 9TH STREET, SUITE 303
OAKLAND, CA 94607
(415) 963-4303
91 CRESCENT LANE, SUITE 5
PLEASANT HILL, CA 94523
(415) 963-4303

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Architect

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HOWARTER
E18568
Exp: 12/31/2026
ELECTRICAL
STATE OF CALIFORNIA

Project
JUNIPERO SERRA ES MODULAR
151 Victoria St.
Daly City, CA 94015
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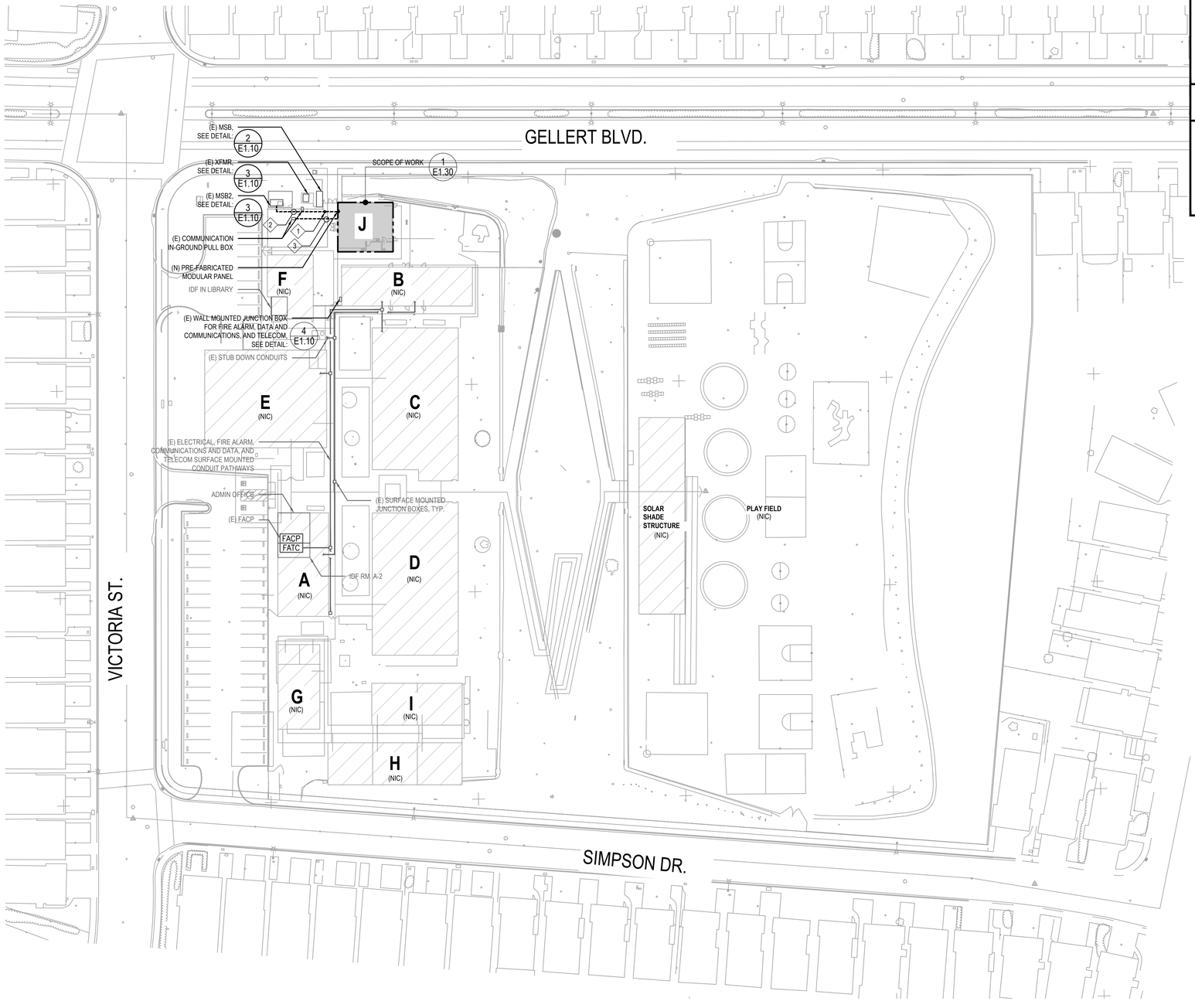
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1 ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

GENERAL NOTES

A. EXISTING PANELS SHALL REMAIN.

B. UTILIZE EXISTING AREA CIRCUITS FOR NEW ELECTRICAL DEVICES. CONTRACTOR SHALL UPDATE PANEL SCHEDULES WITH NEW OR MODIFIED LOADS. UTILIZE EXISTING WIRING.

C. NOT ALL EXISTING CONDITIONS ARE SHOWN ON PLANS. VERIFY EXISTING CONDITIONS AND LOCATIONS OF ELECTRICAL DEVICES IN AREAS OF WORK PRIOR TO DEMOLITION.

D. WHERE EXISTING CONDITIONS ALLOW, MAINTAIN AND RE-USE CURRENT ELECTRICAL WIRING AND PATHWAYS TO MINIMIZE DISRUPTION AND SUPPORT COST-EFFECTIVE INSTALLATION.

E. CONTRACTOR TO PROVIDE NEW FEEDER CONDUIT AND CABLE TO NEW MODULAR BUILDING. COORDINATE WITH MANUFACTURER ON PANEL LOCATION PRIOR TO ROUGH-IN.

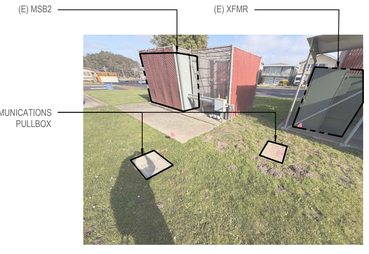
SHEET NOTES

1. F/I (N) IN-GROUND PULLBOX FOR NEW MODULAR ELECTRICAL PANEL IN BLDG J.
2. F/I (N) FEEDER CONDUIT AND CABLE TO NEW MODULAR ELECTRICAL PANEL IN BLDG J. CONTRACTOR TO CONFIRM FINAL PANEL RATING AND REQUIRED FEEDER SIZE WITH MODULAR MANUFACTURER.
3. F/I (1) 2"C FOR COMMUNICATIONS, DATA, AND TELECOM AND FEED BACK FROM NEAREST AVAILABLE IDF. CONTRACTOR TO VERIFY EXACT TELECOM ROOM LOCATION AND COORDINATE WITH IT DISTRICT.



4 (E) OUTDOOR JBOX

SCALE: NTS



3 (E) MSB2 AND XFMR

SCALE: NTS



2 (E) MSB

SCALE: NTS

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SAN FRANCISCO, CA 94104
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313 9TH STREET, SUITE 303
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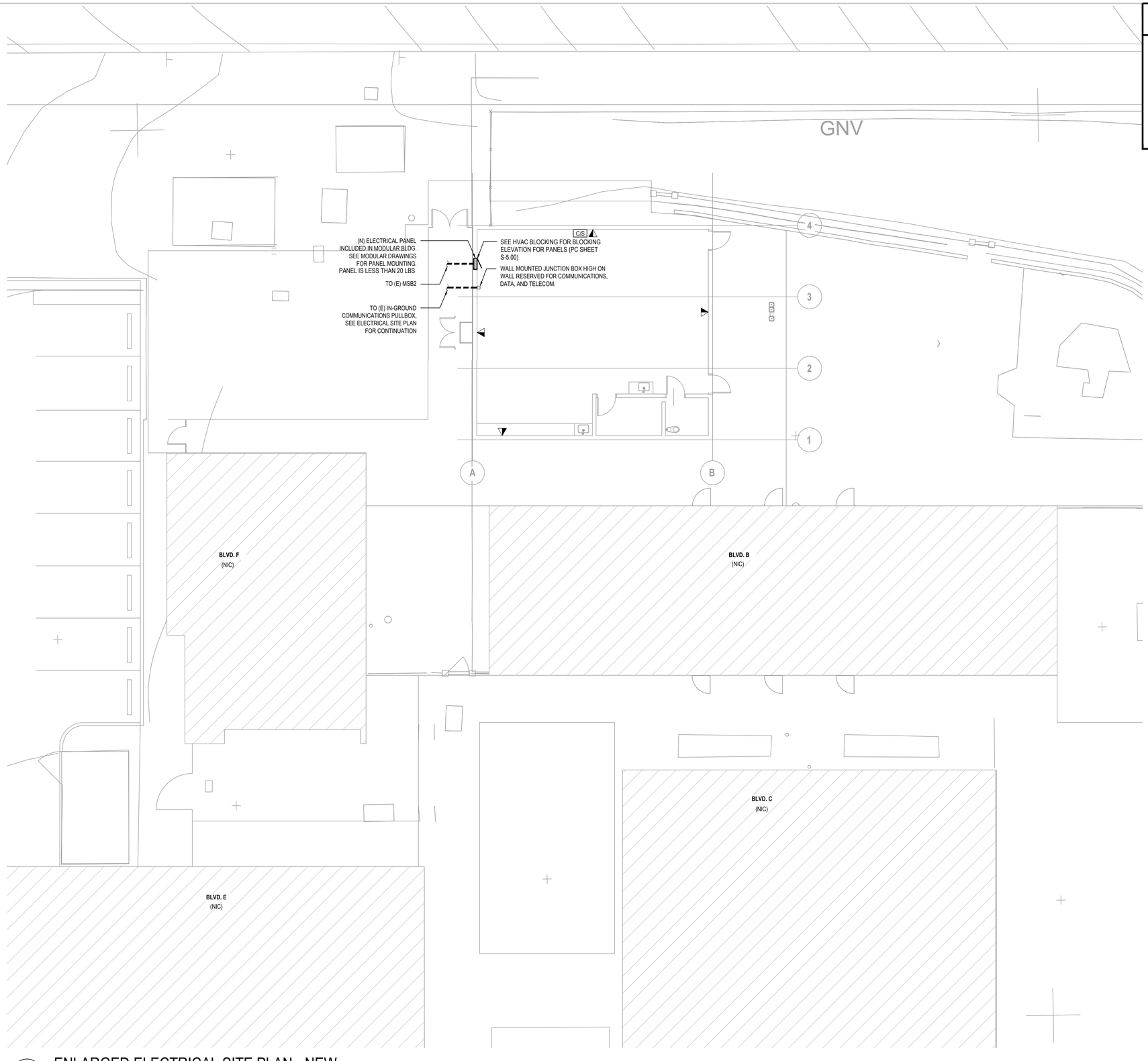
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ELECTRICAL SITE PLAN

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1 ENLARGED ELECTRICAL SITE PLAN - NEW

SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. NOT ALL EXISTING CONDITIONS ARE SHOWN ON PLANS. VERIFY EXISTING CONDITIONS AND LOCATIONS OF FIRE ALARM DEVICES IN AREAS OF WORK PRIOR TO WORK.

B. CONTRACTOR SHALL PROTECT ALL EXISTING DEVICES, EQUIPMENT, AND WIRING TO REMAIN. ANY DAMAGE TO EXISTING SYSTEMS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

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Consultants

EDesignC Incorporated

583 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104

312 9TH STREET, SUITE 303
OAKLAND, CA 94607

91 CRESCENT LANE, SUITE 5
PLEASANT HILL, CA 94523
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STEPHEN HOWATER
E18568
Exp: 12/31/2026
ELECTRICAL
STATE OF CALIFORNIA

Project
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151 Victoria St.
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ENLARGED ELECTRICAL SITE PLAN - NEW

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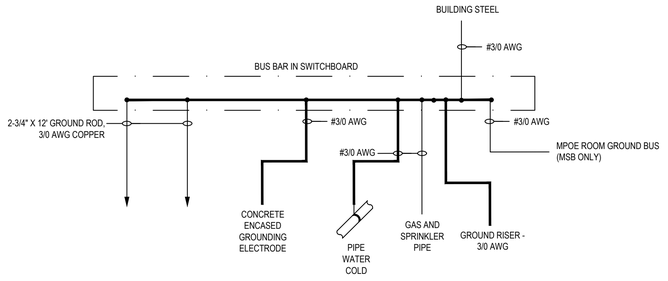
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GENERAL NOTES

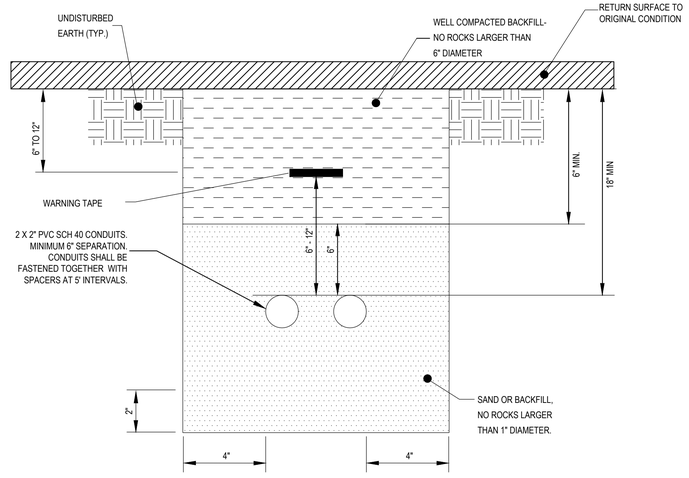
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B. CONTRACTOR SHALL PROTECT ALL EXISTING DEVICES, EQUIPMENT, AND WIRING TO REMAIN. ANY DAMAGE TO EXISTING SYSTEMS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.



4 SERVICE GROUND DETAIL

SCALE: SCHEMATIC

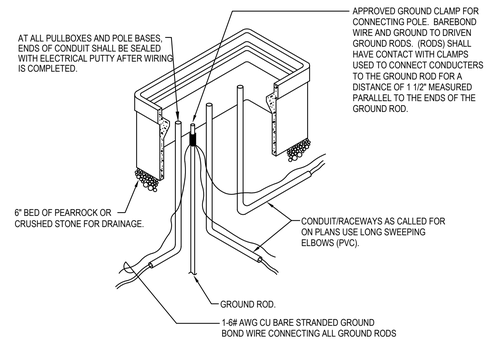


3 TRENCH DETAIL

SCALE: SCHEMATIC

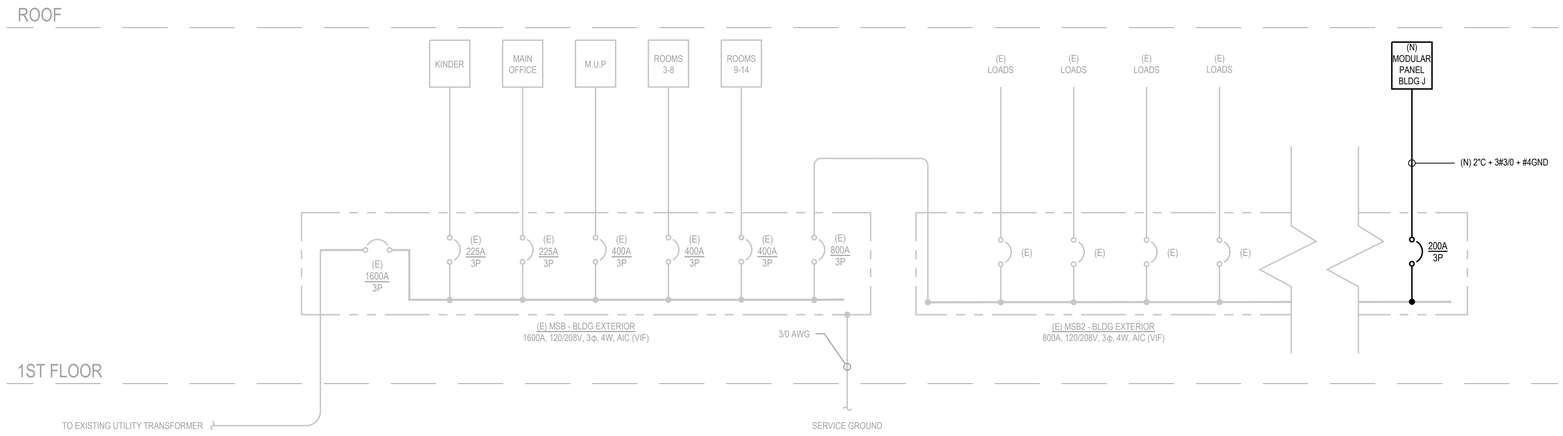
NOTES:

1) CONDUITS NOT TERMINATING IN OR AT PULLBOXES NEED NOT RUN THROUGH PULLBOXES UNLESS RQUIRED FOR PULLING NEC.
2) CONTRACTOR TO DETERMINE SIZING IN THE FIELD FOR INSIDE DIMENSIONS
   17" x 28" , 10 1/2" x 17 1/4", 13" x 24"
3) COVER TO BE PROVIDED: CAST IRON TRAFFIC COVER CONCRETE PEDESTRIAN COVER
4) PROVIDE EXTENSIONS AS REQUIRED.
5) PULLBOX TO BE PRECAST; BROOKS, A.C. MILLER, OR HUGHES SUPPLY



2 UNDERGROUND PULLBOX DETAIL

SCALE: SCHEMATIC



1 PARTIAL SINGLE LINE DIAGRAM

SCALE: NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

GELFAND PARTNERS ARCHITECTS

165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

FILE#
APPL #

Client

Consultants

EDesignC Incorporated
583 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104
(415) 362-3484
312 9TH STREET, SUITE 303
OAKLAND, CA 94607
(415) 362-3484
91 CRESCENT LANE, SUITE 5
PLEASANT HILL, CA 94523
(415) 963-4303

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Architect

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HOWARTER
E18568
Exp: 12/31/2026
ELECTRICAL
STATE OF CALIFORNIA

Project
JUNIPERO SERRA ES MODULAR

151 Victoria St.
Daly City, CA 94015

2516.00

Sheet
SINGLE LINE DIAGRAM

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DIVISION 26 - ELECTRICAL

SECTION 260500

ELECTRICAL BASIC MATERIALS AND METHODS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Low-Voltage Electrical Power Conductors and Cables.

B. Hangers and Supports. Includes support and attachment requirements and components for equipment, conduit, cable, boxes, and other electrical work.

C. Raceways and Boxes. Includes:
1. Outlet and device boxes up to 100 cubic inches (1,650 cu cm), including those used as junction and pull boxes.
2. Surface raceway systems.
3. Wireways.

D. Conduits and Fittings.

E. Cable Trays.

F. Enclosed Safety Switches and Fuses.

G. Identification for Electrical Systems. Includes:
1. Electrical identification requirements.
2. Identification nameplates and labels.
3. Wire and cable markers.
4. Warning signs and labels.

H. Enclosed Circuit Breakers. Includes molded case circuit breakers.

1.02 ADMINISTRATIVE REQUIREMENTS

A. Hangers and Supports:
1. Coordination:
a. Coordinate sizes and arrangement of supports and bases with actual equipment and components to be installed.
b. Coordinate work to provide additional framing and materials required for installation.
c. Coordinate compatibility of support and attachment components with mounting surfaces at installed locations.
d. Coordinate arrangement of supports with ductwork, piping, equipment and other potential conflicts.

1.03 RELATED REQUIREMENTS

A. Section 078400 - Firestopping.

B. Section 260526 - Grounding and Bonding for Electrical Systems.

C. Section 262726 - Wiring Devices:
1. Wall plates.
2. Receptacles.

1.04 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Product Data: Submit catalog sheets for each type of product.
1. Low-Voltage Electrical Power Conductors and Cables: Provide manufacturer's standard catalog pages and data sheets for conductors and cables, including on materials, construction, ratings, listings, and available sizes, configurations, stranding, and termination locations.
a. Indicate voltage drop and ampacity calculations for aluminum conductors substituted for copper conductors.Include proposed modifications to raceways, boxes, wiring gutters, enclosures, etc. to accommodate substituted conductors.
b. Include proposed modifications to raceways, boxes, wiring gutters, enclosures, etc. to accommodate substituted conductors.
2. Hangers and Supports: Provide manufacturer's standard catalog pages and data sheets for channel/strut framing systems and nonpenetrating rooftop supports.
3. Raceways and Boxes: Provide manufacturer's standard catalog pages and data sheets for:
a. Surface Raceway System: include information fill capacities for conductors and cables, dimensions, knockout sizes and locations, materials, fabrication details, finishes, service condition requirements, and accessories.
b. Boxes, Enclosures, and Cabinets: Provide configurations, finishes, dimensions, and manufacturer's instructions.
4. Conduits and Fittings: Provide manufacturer's standard catalog pages and data sheets.
5. Cable Trays: Provide data indicating dimensions, materials, fabrication details, finishes, and components and accessories.
6. Enclosed Safety Switches: Provide manufacturer's standard catalog pages and data sheets for enclosed switches and other installed components and accessories.
7. Fuses: Provide manufacturer's standard data sheets including voltage and current ratings, interrupting ratings, time-current curves, and current limitation curves.
8. Identification for Electrical Systems: Provide schedule for nameplates. Provide material descriptions, dimensions, and finishes.
9. Enclosed Circuit Breakers: Provide manufacturer's standard catalog pages and data sheets for circuit breakers, enclosures, and other installed components and accessories.

C. Shop Drawings:
1. Enclosed Safety Switches:
a. Indicate outline and support point dimensions, voltage and current ratings, short circuit current ratings, conduit entry locations, conductor terminal information, and installed features and accessories.
1) Include dimensioned plan and elevation views of enclosed switches and adjacent equipment with all required clearances indicated.
2) Include wiring diagrams showing all factory and field connections.
3) Identify mounting conditions required for equipment seismic qualification.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least three years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

C. Documents at Project Site: Maintain at project site one copy of manufacturer's instructions, erection drawings, and shop drawings.

1.06 WARRANTY

A. See Section 017800 - Closeout Submittals for additional warranty requirements.

B. Manufacturer Warranty: Provide 2-year manufacturer warranty . Complete forms in Owner's name and register with manufacturer.

C. Installer Warranty: Provide 2-year warranty for commencing on the Date of Substantial Completion. Complete forms in Owner's name and register with installer.

PART 2 - PRODUCTS

2.01 CONDUCTOR CABLE AND APPLICATIONS

A. Do not use conductors and cables for applications other than as permitted by NFPA 70 and product listing.

B. Provide single conductor building wire in suitable raceway unless otherwise indicated, permitted, or required.

2.02 CONDUCTOR AND CABLE GENERAL REQUIREMENTS

A. Provide products that comply with requirements of NFPA 70.

B. Provide products listed, classified, and labeled as suitable for the purpose intended.

C. Unless specifically indicated to be excluded, provide all required conduit, boxes, wiring, connectors, etc. as required for a complete operating system.

D. Thermoplastic-Insulated Conductors and Cables: Listed and labeled as complying with UL 83.

E. Thermoset-Insulated Conductors and Cables: Listed and labeled as complying with UL 44.

F. Conductors for Grounding and Bonding: Also comply with Section 260526.

G. Conductors and Cables Installed in Cable Tray: Listed and labeled as suitable for cable tray use.

H. Conductors and Cables Installed Where Exposed to Direct Rays of Sun: Listed and labeled as sunlight resistant.

I. Conductor Material:
1. Provide copper conductors except where aluminum conductors are specifically indicated. Substitution of aluminum conductors for copper is not permitted. Conductor sizes indicated are based on copper unless specifically indicated as aluminum. Conductors designated with the abbreviation "AL" indicate aluminum.
2. Copper Conductors: Soft drawn annealed, 98 percent conductivity, uncoated copper conductors complying with ASTM B3, ASTM B8, or ASTM B787/B787M unless otherwise indicated.

2.03 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

A. Single Conductor Building Wire (Copper):
1. Description: Single conductor insulated wire.
2. Manufacturers:
a. Cerro Wire LLC: www.cerrowire.com/#sle.
b. Encore Wire Corporation: www.encorewire.com/#sle.
c. Southwire Company: www.southwire.com/#sle.
d. Or Engineer Approved Equal.
3. Conductor Stranding:
a. Feeders and Branch Circuits:
1) Size 10 AWG and Smaller: Solid.
2) Size 8 AWG and Larger: Stranded.
4. Insulation Voltage Rating: 600 V.
5. Conductor Insulation:
a. Copper Building Wire: Type THHN/THWN or THHN/THWN-2, except as indicated below.
1) Size 4 AWG and Larger: Type XHHW-2.
2) Installed Underground: Type XHHW-2.
3) Fixture Wiring Within Luminaires: Type TFFN/TFN for luminaires with labeled maximum temperature of 90 degrees C; Approved suitable type for luminaires with labeled maximum temperature greater than 90 degrees C.

B. Minimum Conductor Size:
1. Branch Circuits: 12 AWG.
a. Exceptions:
1) 20 A, 120 V circuits longer than 75 feet (23 m): 10 AWG, for voltage drop.
2) 20 A, 120 V circuits longer than 150 feet (46 m): 8 AWG, for voltage drop.

C. Where conductor size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.

D. Conductor Color Coding:
1. Color Code:
a. 208Y/120 V, 3 Phase, 4 Wire System:
1) Phase A: Black.
2) Phase B: Red.
3) Phase C: Blue.
4) Neutral/Grounded: White.
b. Equipment Ground, All Systems: Green.
c. Isolated Ground, All Systems: Green with yellow stripe.
d. For modifications or additions to existing wiring systems, comply with existing color code when existing code complies with NFPA 70 and is approved by the authority having jurisdiction.

E. Wiring Connectors:
1. Description: Wiring connectors appropriate for the application, suitable for use with the conductors to be connected, and listed as complying with UL 486A-486B or UL 486C as applicable.
2. Connectors for Grounding and Bonding: Comply with Section 260526.
3. Wiring Connectors for Splices and Taps:
a. Copper Conductors Size 8 AWG and Smaller: Use twist-on insulated spring connectors.
b. Copper Conductors Size 6 AWG and Larger: Use mechanical connectors or compression connectors.
4. Wiring Connectors for Terminations:
a. Provide terminal lugs for connecting conductors to equipment furnished with terminations designed for terminal lugs.
b. Provide compression adapters for connecting conductors to equipment furnished with mechanical lugs when only compression connectors are specified.
c. Where over-sized conductors are larger than the equipment terminations can accommodate, provide connectors suitable for reducing to appropriate size, but not less than required for the rating of the overcurrent protective device.
d. Copper Conductors Size 8 AWG and Larger: Use mechanical connectors or compression connectors where connectors are required.
e. Stranded Conductors Size 10 AWG and Smaller: Use crimped terminals for connections to terminal screws.
5. Do not use insulation-piercing or insulation-displacement connectors designed for use with conductors without stripping insulation.
6. Do not use push-in wire connectors as a substitute for twist-on insulated spring connectors.
7. Twist-on Insulated Spring Connectors: Rated 600 V, 221 degrees F (105 degrees C) for standard applications and 302 degrees F (150 degrees C) for high temperature applications; pre-filled with sealant and listed as complying with UL 486D for damp and wet locations.
8. Mechanical Connectors: Provide bolted type or set-screw type.
9. Cable Ties: Material and tensile strength rating suitable for application.
10. Compression Connectors: Provide circumferential type or hex type crimp configuration.

F. Accessories:
1. Electrical Tape:
a. Vinyl Color Coding Electrical Tape: Integrally colored to match color code indicated; listed as complying with UL 510; minimum thickness of 7 mil (0.18 mm); resistant to abrasion, corrosion, and sunlight; suitable for continuous temperature environment up to 221 degrees F (105 degrees C).
2. Heat Shrink Tubing: Heavy-wall, split-resistant, with factory-applied adhesive; rated 600 V; suitable for direct burial applications; listed as complying with UL 486D.
3. Wire Pulling Lubricant:
a. Listed and labeled as complying with UL 267.
b. Suitable for use with conductors/cables and associated insulation/jackets to be installed.
4. Firestop Sleeves: Listed; provide as required to preserve fire resistance rating of building elements.

2.04 HANGERS AND SUPPORTS

A. General Requirements:
1. Comply with the following. Where requirements differ, comply with most stringent.
a. NFPA 70.
b. Applicable building code.
2. Provide required hangers, supports, anchors, fasteners, fittings, accessories, and hardware as necessary for complete installation of electrical work.
3. Provide products listed, classified, and labeled as suitable for purpose intended, where applicable.
4. Where support and attachment component types and sizes are not indicated, select in accordance with manufacturer's application criteria as required for load to be supported. Include consideration for vibration, equipment operation, and shock loads where applicable.
5. Do not use products for applications other than as permitted by NFPA 70 and product listing.
6. Do not use wire, chain, perforated pipe strap, or wood for permanent supports unless specifically indicated or permitted.
7. Steel Components: Use corrosion-resistant materials suitable for environment where installed.
a. Indoor Dry Locations: Use zinc-plated steel or approved equivalent unless otherwise indicated.
b. Outdoor and Damp or Wet Indoor Locations: Use galvanized steel, stainless steel, or approved equivalent unless otherwise indicated.
c. Zinc-Plated Steel: Electroplated in accordance with ASTM B633.
d. Galvanized Steel: Hot-dip galvanized after fabrication in accordance with ASTM A123/A123M or ASTM A153/A153M.

B. Conduit and Cable Supports: Straps and clamps suitable for conduit or cable to be supported.
1. Manufacturers:
a. ABB: www.electrification.us.abb.com/#sle.
b. Eaton Corporation: www.eaton.com/#sle.
c. Emerson Electric Co; O-Z/Gedney: www.emerson.com/#sle.
d. Or Engineer Approved Equal.
2. Conduit Straps: Two-hole type; steel or malleable iron.
3. Conduit Clamps: Bolted type unless otherwise indicated.

C. Outlet Box Supports: Hangers and brackets suitable for boxes to be supported.

D. Metal Channel/Strut Framing Systems:
1. Description: Factory-fabricated, continuous-slot, metal channel/strut and associated fittings, accessories, and hardware required for field assembly of supports.
2. Channel/Strut Used as Raceway, Where Indicated: Listed and labeled as complying with UL 5B.
3. Channel Material:
a. Indoor Dry Locations: Use painted steel, zinc-plated steel, or galvanized steel.
b. Outdoor and Damp or Wet Indoor Locations: Use galvanized steel.

E. Hanger Rods: Threaded, zinc-plated steel unless otherwise indicated.

F. Nonpenetrating Rooftop Supports for Low-Slope Roofs:
1. Manufacturers:
a. Atkore International Inc; Unistrut: www.unistrut.us/#sle.
b. Eaton Corporation: www.eaton.com/#sle.
c. Or Engineer Approved Equal.
2. Description: Steel pedestals with thermoplastic or rubber bases that rest on top of roofing membrane, not requiring attachment to roof structure and not penetrating roofing assembly, with support fixtures as specified.

G. Anchors and Fasteners:
1. Unless otherwise indicated and where not otherwise restricted, use anchor and fastener types indicated for specified applications.
2. Concrete: Use preset concrete inserts, expansion anchors, or screw anchors.
3. Steel: Use beam clamps, machine bolts, or welded threaded studs.
4. Wood: Use wood screws.

2.05 RACEWAYS

A. General Requirements:
1. Provide all components, fittings, supports, and accessories required for a complete raceway system.
2. Provide products listed, classified, and labeled as suitable for the purpose intended.
3. Do not use raceways for applications other than as permitted by NFPA 70 and product listing.

B. Surface Raceway Systems:
1. Manufacturers:
a. Hubbell Incorporated: www.hubbell.com/#sle.
b. Legrand North America, Inc: www.legrand.us/#sle.
c. Or Engineer Approved Equal.
2. Surface Metal Raceways: Listed and labeled as complying with UL 5.
3. Multioutlet Assemblies: Listed and labeled as complying with UL 111.

C. Wireways:
1. Manufacturers:
a. Eaton Corporation: www.eaton.com/#sle.
b. Enduro Composites: www.endurocomposites.com/#sle.
c. Schneider Electric: www.se.com/#sle.
d. Or Engineer Approved Equal.
2. Description: Lay-in wireways and wiring troughs with removable covers; listed and labeled as complying with UL 870.
3. Wireway Type, Unless Otherwise Indicated:
a. Indoor Clean, Dry Locations: NEMA EN 10250, Type 1, painted steel with screw-cover.
b. Outdoor Locations: NEMA EN 10250, Type 3R, painted steel with screw-cover; include provision for padlocking.
4. Finish for Painted Steel Wireways: Manufacturer's standard grey unless otherwise indicated.
5. Minimum Wireway Size: 4 by 4 inches (100 by 100 mm) unless otherwise indicated.
6. Where wireway size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.

2.06 BOXES

A. General Requirements:
1. Do not use boxes and associated accessories for applications other than as permitted by NFPA 70 and product listing.
2. Provide all boxes, fittings, supports, and accessories required for a complete raceway system and to accommodate devices and equipment to be installed.
3. Provide products listed, classified, and labeled as suitable for the purpose intended.
4. Where box size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.
5. Provide grounding terminals within boxes where equipment grounding conductors terminate.

B. Outlet and Device Boxes Up to 100 cubic inches (1,650 cu cm), Including Those Used as Junction and Pull Boxes:
1. Use sheet-steel boxes for dry locations unless otherwise indicated or required.
2. Use cast iron boxes or cast aluminum boxes for damp or wet locations unless otherwise indicated or required; furnish with compatible weatherproof gasketed covers.
3. Do not use "through-wall" boxes designed for access from both sides of wall.
4. Sheet-Steel Boxes: Comply with NEMA OS 1, and list and label as complying with UL 514A.
5. Boxes for Supporting Luminaires and Ceiling Fans: Listed as suitable for the type and weight of load to be supported; furnished with fixture stud to accommodate mounting of luminaire where required.
6. Boxes for Ganged Devices: Use multigang boxes of single-piece construction. Do not use field-connected gangable boxes unless specifically indicated or permitted.
7. Minimum Box Size, Unless Otherwise Indicated:
a. Communications Systems Outlets: Comply with Section 271000.

2.07 CONDUIT AND FITTINGS

A. Conduit Applications
1. Do not use conduit and associated fittings for applications other than as permitted by NFPA 70 and product listing.
2. Unless otherwise indicated and where not otherwise restricted, use the conduit types indicated for the specified applications. Where more than one listed application applies, comply with the most restrictive requirements. Where conduit type for a particular application is not specified, use galvanized steel rigid metal conduit.
3. Underground:
a. Exterior, Direct-Buried: Use galvanized steel rigid metal conduit, PVC-coated galvanized steel rigid metal conduit, rigid PVC conduit, or reinforced thermosetting resin conduit (RTRC).
b. Where rigid polyvinyl (PVC) conduit is provided, transition to galvanized steel rigid metal conduit where emerging from underground.
c. Where rigid polyvinyl (PVC) conduit larger than 2 inch (53 mm) trade size is provided, use galvanized steel rigid metal conduit elbows for bends.
d. Where steel conduit is installed in direct contact with earth where soil has a resistivity of less than 2000 ohm-centimeters or is characterized as severely corrosive based on soils report or local experience, use corrosion protection tape to provide supplementary corrosion protection or use PVC-coated galvanized steel rigid metal conduit.
4. Concealed Within Hollow Stud Walls: Use intermediate metal conduit (IMC) or electrical metallic tubing (EMT).
5. Concealed Above Accessible Ceilings: Use intermediate metal conduit (IMC) or electrical metallic tubing (EMT).
6. Interior, Damp or Wet Locations: Use intermediate metal conduit (IMC) or electrical metallic tubing (EMT).
7. Exposed, Interior, Not Subject to Physical Damage: Use intermediate metal conduit (IMC) or electrical metallic tubing (EMT).
8. Exposed, Interior, Subject to Physical Damage: Use galvanized steel rigid metal conduit.
a. Locations subject to physical damage include, but are not limited to:
1) Where exposed below 8 feet (2.4 m), except within electrical and communication rooms or closets.

B. Conduit Requirements
1. Existing Work: Where existing conduits are indicated to be reused, they may be reused only where they comply with specified requirements, are free from corrosion, and integrity is verified by pulling a mandrel through them.
2. Communications Systems Conduits: Also comply with Section 271000.
3. Fittings for Grounding and Bonding: Also comply with Section 260526.
4. Provide all conduit, fittings, supports, and accessories required for a complete raceway system.
5. Provide products listed, classified, and labeled as suitable for the purpose intended.
6. Minimum Conduit Size, Unless Otherwise Indicated:
a. Branch Circuits: 3/4 inch (21 mm) trade size.
b. Branch Circuit Homeruns: 3/4 inch (21 mm) trade size.
c. Flexible Connections to Luminaires: 3/8 inch (12 mm) trade size.
d. Underground, Exterior: 1 inch (27 mm) trade size.
7. Where conduit size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.

C. Galvanized Steel Rigid Metal Conduit (RMC)
1. Manufacturers:
a. Allied Tube & Conduit, a division of Atkore International: www.alliedeg.com/#sle.
b. Western Tube, a division of Zekelman Industries: www.westerntube.com/#sle.
c. Wheatland Tube, a division of Zekelman Industries: www.wheatland.com/#sle.
d. Or Engineer Approved Equal.
2. Description: NFPA 70, Type RMC galvanized steel rigid metal conduit complying with ANSI C80.1 and listed and labeled as complying with UL 6.
3. Fittings:
a. Material: Use steel or malleable iron.
1) Do not use die cast zinc fittings.
b. Connectors and Couplings: Use threaded type fittings only. Threadless set screw and compression (gland) type fittings are not permitted.

D. Intermediate Metal Conduit (IMC)
1. Manufacturers:
a. Allied Tube & Conduit, a division of Atkore International: www.alliedeg.com/#sle.
b. Western Tube, a division of Zekelman Industries: www.westerntube.com/#sle.
c. Wheatland Tube, a division of Zekelman Industries: www.wheatland.com/#sle.
d. Or Engineer Approved Equal.
2. Description: NFPA 70, Type IMC galvanized steel intermediate metal conduit complying with ANSI C80.6 and listed and labeled as complying with UL 1242.
3. Fittings:
a. Non-Hazardous Locations: Use fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B.
b. Material: Use steel or malleable iron.
1) Do not use die cast zinc fittings.
c. Connectors and Couplings: Use threaded type fittings only. Threadless set screw and compression (gland) type fittings are not permitted.

E. Electrical Mettalic Tubing (EMT)
1. Manufacturers:
a. Allied Tube & Conduit, a division of Atkore International: www.alliedeg.com/#sle.
b. Western Tube, a division of Zekelman Industries: www.westerntube.com/#sle.
c. Wheatland Tube, a division of Zekelman Industries: www.wheatland.com/#sle.
d. Or Engineer Approved Equal.
2. Fittings:
a. Manufacturers:
1) O-Z/Gedney, a brand of Emerson Electric Co: www.emerson.com/#sle.
b. Material: Use steel or malleable iron.
1) Do not use die cast zinc fittings.
c. Connectors and Couplings: Use compression (gland) type.
1) Do not use indenter type connectors and couplings.
2) Do not use set-screw type connectors and couplings.
d. Damp or Wet Locations (where permitted): Use fittings listed for use in wet locations.

F. Rigid Polyvinly Chloride Conduit (PVC)
1. Manufacturers:
a. Cantex Inc: www.cantexinc.com/#sle.
b. Carlon, a brand of Thomas & Betts Corporation: www.carlon.com/#sle.
c. JM Eagle: www.jmeagle.com/#sle.
d. Or Engineer Approved Equal.
2. Fittings:
a. Manufacturer: Same as manufacturer of conduit to be connected.

G. Electrical Nonmettalic Tubing (ENT)
1. Manufacturers:
a. Cantex Inc: www.cantexinc.com/#sle.
b. Carlon, a brand of Thomas & Betts Corporation: www.carlon.com/#sle.
2. Fittings:
a. Manufacturer: Same as manufacturer of ENT to be connected.

H. ACCESSORIES
1. Corrosion Protection Tape: PVC-based, minimum thickness of 20 mil (0.51 mm).
2. Pull Strings: Use nylon cord with average breaking strength of not less than 200 pound-force (890 N).
3. Sealing Compound for Sealing Fittings: Listed for use with the particular fittings to be installed.
4. Sealing Systems for Roof Penetrations: Premanufactured components and accessories as required to preserve integrity of roofing system and maintain roof warranty; suitable for conduits and roofing system to be installed; designed to accommodate existing penetrations where applicable.
a. Products:
1) Menzies Metal Products; Electrical Roof Stack and Cap: www.menzies-metal.com/#sle.
2) Menzies Metal Products; Electrical Retro Box: www.menzies-metal.com/#sle.
3) Or Engineer Approved Equal.
5. Firestop Sleeves: Listed; provide as required to preserve fire resistance rating of building elements.
a. Products:
1) HoldRite, a brand of Reliance Worldwide Corporation; HydroFlame Pro Series/HydroFlame Custom Built: www.holdrite.com/#sle.

2.08 CABLE TRAY

A. General Requirements:
1. Provide new cable tray system consisting of all required components, fittings, supports, accessories, etc. as necessary for a complete system.
2. Provide products listed, classified, and labeled as suitable for the purpose intended.
3. Do not use cable tray for applications other than as permitted by NFPA 70 and product listing/classification.
4. Provide cable tray system and associated components suitable for use at indicated span/load ratings under the service conditions at the installed location.

B. Metal Cable Tray Systems:
1. Manufacturers:
a. Metal Cable Tray System:
1) Chalfant Manufacturing Company: www.chalfant-obo.com/#sle.
2) Thomas & Betts Corporation: www.tnb.com/#sle.
3) Or Engineer Approved Equal.
2. Finishes:
a. Zinc Electroplated Steel: Comply with ASTM B633.

2.09 ENCLOSED SWITCHES AND FUSES

A. Enclosed Switches:
1. Manufacturers:
a. Eaton Corporation: www.eaton.com/#sle.

IDENTIFICATION STAMP
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APP: 01-122855 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

GELFAND PARTNERS ARCHITECTS
165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

FILE#
APPL #

Client

Consultants

EDesignC Incorporated
582 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104
(415) 362-3484
202 9TH STREET, SUITE 303
OAKLAND, CA 94607
(510) 444-3484
91 CRESCENT LANE, SUITE 5
PLEASANT HILL, CA 94523
(415) 963-4303

TRUE

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Architect

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HOWATER
E18568
Exp: 12/31/2026
ELECTRICAL
STATE OF CALIFORNIA

Project
JUNIPERO SERRA ES MODULAR
151 Victoria St.
Daly City, CA 94015
2516.00

Sheet
TECHNICAL SPECIFICATIONS

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b. Schneider Electric: www.se.com/#sle.
c. Siemens Industry, Inc: www.new.siemens.com/#sle.

2. ENCLOSED SAFETY SWITCHES
a. Description: Quick-make, quick-break enclosed safety switches listed and labeled as complying with UL 98; heavy duty; ratings, configurations, and features as indicated on the drawings.
b. Provide products listed, classified, and labeled as suitable for the purpose intended.
c. Unless otherwise indicated, provide products suitable for continuous operation under the following service conditions:
1) Altitude: Less than 6,600 feet (2,000 m).
2) Ambient Temperature: Between -22 degrees F (-30 degrees C) and 104 degrees F (40 degrees C).
d. Horsepower Rating: Suitable for connected load.
e. Voltage Rating: Suitable for circuit voltage.
f. Short Circuit Current Rating:
1) Provide enclosed safety switches, when protected by the fuses or supply side overcurrent protective devices to be installed, with listed short circuit current rating not less than the available fault current at the installed location as determined by short circuit study performed in accordance with Section 260573.
2) Minimum Ratings:
(a) Switches Protected by Class H Fuses: 10,000 rms symmetrical amperes.
(b) General Duty Single Throw Switches Protected by Class R, Class J, or Class T Fuses: 100,000 rms symmetrical amperes.
(c) Heavy Duty Single Throw Switches Protected by Class R, Class J, Class L, or Class T Fuses: 200,000 rms symmetrical amperes.
g. Provide insulated, groundable fully rated solid neutral assembly where a neutral connection is required, with a suitable lug for terminating each neutral conductor.
h. Enclosures: Comply with NEMA EN 10250, and list and label as complying with UL 50 and UL 50E.
1) Environment Type per NEMA EN 10250: Unless otherwise indicated, as specified for the following installation locations:
(a) Indoor Clean, Dry Locations: Type 1.
(b) Outdoor Locations: Type 3R.
2) Finish for Painted Steel Enclosures: Manufacturer's standard, factory applied grey unless otherwise indicated.
i. Provide safety interlock to prevent opening the cover with the switch in the ON position with capability of overriding interlock for testing purposes.
j. Heavy Duty Switches:
1) Conductor Terminations:
(a) Provide mechanical lugs.
(b) Lug Material: Copper.
2) Provide externally operable handle with means for locking in the OFF position, capable of accepting two padlocks.

B. Fuses:
1. Unless specifically indicated to be excluded, provide fuses for all fusible equipment as required for a complete operating system.
2. Provide fuses of the same type, rating, and manufacturer within the same switch.
3. Voltage Rating: Suitable for circuit voltage.
4. Class R Fuses: Comply with UL 248-12.
a. Class RK1, Time-Delay Fuses:
b. Class RK1, Fast-Acting, Non-Time-Delay Fuses:
c. Class RK5, Time-Delay Fuses:
d. Class RK5, Fast-Acting, Non-Time-Delay Fuses:
5. Class J Fuses: Comply with UL 248-8.
a. Class J, Time-Delay Fuses:
b. Class J, Fast-Acting, Non-Time-Delay Fuses:

2.10 IDENTIFICATION FOR ELECTRICAL SYSTEMS

A. General Requirements:
1. Use identification nameplate to identify each piece of electrical distribution and control equipment and associated sections, compartments, and components.
2. Use identification nameplate to identify equipment utilizing series ratings, where permitted, in accordance with NFPA 70.
3. Use identification nameplate to identify switchboards and panelboards utilizing a high leg delta system in accordance with NFPA 70.
4. Use identification nameplate to identify disconnect location for equipment with remote disconnecting means.
5. Use identification label or handwritten text using indelible marker on inside of door at each fused switch to identify required NEMA fuse class and size.
6. Use identification label to identify overcurrent protective devices for branch circuits serving fire alarm circuits. Identify with text "FIRE ALARM CIRCUIT".
7. Available Fault Current Documentation: Use identification label to identify the available fault current and date calculations were performed at locations requiring documentation by NFPA 70 including but not limited to the following.
a. Service equipment.
8. Arc Flash Hazard Warning Labels: Use warning labels to identify arc flash hazards for electrical equipment, such as switchboards, panelboards, industrial control panels, meter socket enclosures, and motor control centers that are likely to require examination, adjustment, servicing, or maintenance while energized.
a. Minimum Size: 3.5 by 5 inches (89 mm by 127 mm).
b. Legend: Include orange header that reads "WARNING", followed by the word message "Arc Flash and Shock Hazard; Appropriate PPE Required; Do not operate controls or open covers without appropriate personal protection equipment; Failure to comply may result in injury or death; Refer to NFPA 70E for minimum PPE requirements" or approved equivalent.
c. Service Equipment: Include the following information in accordance with NFPA 70.
1) Nominal system voltage.
2) Available fault current.
3) Clearing time of service overcurrent protective device(s).
4) Date label applied.
9. Use warning signs to identify electrical hazards for entrances to all rooms and other guarded locations that contain exposed live parts operating at 600 V nominal or less with the word message "DANGER; Electrical hazard; Authorized personnel only" or approved equivalent.

B. Identification for Conductors and Cables:
1. Use identification nameplate or identification label to identify color code for ungrounded and grounded power conductors inside door or enclosure at each piece of feeder or branch-circuit distribution equipment when premises has feeders or branch circuits served by more than one nominal voltage system.
2. Use wire and cable markers to identify circuit number or other designation indicated for power, control, and instrumentation conductors and cables at the following locations:
a. At each source and load connection.
b. Within boxes when more than one circuit is present.
c. Within equipment enclosures when conductors and cables enter or leave the enclosure.
3. Use wire and cable markers to identify connected grounding electrode system components for grounding electrode conductors.
4. Use underground warning tape to identify direct buried cables.

C. Identification for Raceways:
1. Use voltage markers to identify highest voltage present for accessible conduits at maximum intervals of 20 feet (6.1 m).
2. Use voltage markers or color-coded bands to identify systems other than normal power system for accessible conduits at maximum intervals of 20 feet (6.1 m).
a. Color-Coded Bands: Use field-painting or vinyl color coding electrical tape to mark bands 3 inches (76 mm) wide.
3. Use identification labels, handwritten text using indelible marker, or plastic marker tags to identify circuits enclosed for accessible conduits at wall penetrations, at floor penetrations, at roof penetrations, and at equipment terminations when source is not within sight.
4. Use underground warning tape to identify underground raceways.
5. Use voltage markers to identify highest voltage present for wireways at maximum intervals of 20 feet (6.1 m).

D. Identification for Boxes:
1. Use voltage markers to identify highest voltage present.
2. Use voltage markers or color coded boxes to identify systems other than normal power system.
3. Use identification labels or handwritten text using indelible marker to identify circuits enclosed.
a. For exposed boxes in public areas, use only identification labels.
4. Use warning labels to identify electrical hazards for boxes containing exposed live parts or exposed conductors operating at over 600 V nominal with the word message "DANGER; HIGH VOLTAGE; KEEP OUT".

E. Identification for Devices:
1. Identification for Communications Devices: Comply with Section 271000.
2. Use identification label or engraved wallplate to identify serving branch circuit for all receptacles.
a. For receptacles in public areas or in areas as directed by Architect, provide identification on inside surface of wallplate.
3. Use identification label or engraved wallplate to identify load controlled for wall-mounted control devices controlling loads that are not visible from the control location and for multiple wall-mounted control devices installed at one location.
4. Use identification label to identify receptacles protected by upstream GFI protection, where permitted.

F. Identification Nameplates and Labels:
1. Identification Nameplates:
a. Manufacturers:
1) Brimar Industries, Inc: www.brimar.com/#sle.
2) Kolbi Pipe Marker Co: www.kolbipipemarkers.com/#sle.
3) Seton Identification Products: www.seton.com/#sle.
b. Materials:
1) Indoor Clean, Dry Locations: Use plastic nameplates.
2) Outdoor Locations: Use plastic, stainless steel, or aluminum nameplates suitable for exterior use.
c. Plastic Nameplates: Two-layer or three-layer laminated acrylic or electrically non-conductive phenolic with beveled edges; minimum thickness of 1/16 inch (1.6 mm); engraved text.
d. Stainless Steel Nameplates: Minimum thickness of 1/32 inch (0.8 mm); engraved or laser-etched text.
e. Mounting Holes for Mechanical Fasteners: Two, centered on sides for sizes up to 1 inch (25 mm) high; Four, located at corners for larger sizes.
2. Identification Labels:
a. Manufacturers:
1) Brady Corporation: www.bradyid.com/#sle.
2) Brother International Corporation: www.brother-usa.com/#sle.
3) Panduit Corp: www.panduit.com/#sle.
4) Or Engineer Approved Equal.
b. Materials: Use self-adhesive laminated plastic labels; UV, chemical, water, heat, and abrasion resistant.
1) Use only for indoor locations.
c. Text: Use factory pre-printed or machine-printed text. Do not use handwritten text unless otherwise indicated.
3. Format for Receptacle Identification:
a. Minimum Size: 3/8 inch (10 mm) by 1.5 inches (38 mm).
b. Legend: Power source and circuit number or other designation indicated.
1) Include voltage and phase for other than 120 V, single phase circuits.
c. Text: All capitalized unless otherwise indicated.
d. Minimum Text Height: 3/16 inch (5 mm).
e. Color: Black text on clear background.

G. Warning Signs and Labels:
1. Manufacturers:
a. Brimar Industries, Inc: www.brimar.com/#sle.
b. Clarion Safety Systems, LLC: www.clarionsafety.com/#sle.
c. Insite Solutions, LLC: www.stop-painting.com/#sle.
d. Or Engineer Approved Equal.
2. Warning Signs:
a. Materials:
1) Indoor Dry, Clean Locations: Use factory pre-printed rigid plastic or self-adhesive vinyl signs.
2) Outdoor Locations: Use factory pre-printed rigid aluminum signs.
3. Warning Labels:
a. Materials: Use factory pre-printed or machine-printed self-adhesive polyester or self-adhesive vinyl labels; UV, chemical, water, heat, and abrasion resistant; produced using materials recognized to UL 969.
1) Do not use labels designed to be completed using handwritten text.
2) Provide polyester overlaminate to protect handwritten text.
b. Machine-Printed Labels: Use thermal transfer process printing machines and accessories recommended by label manufacturer.

2.11 ENCLOSED CIRCUIT BREAKERS

A. Manufacturers:
1. Eaton Corporation: www.eaton.com/#sle.
2. Schneider Electric: www.se.com/#sle.
3. Siemens Industry, Inc: www.new.siemens.com/#sle.
4. Or Engineer Approved Equal.

B. Description: Units consisting of molded case circuit breakers individually mounted in enclosures.

C. Provide products listed, classified, and labeled as suitable for the purpose intended.

D. Unless otherwise indicated, provide products suitable for continuous operation under the following service conditions:
1. Altitude: Less than 6,600 feet (2,000 m).
2. Ambient Temperature: Between 23 degrees F (-5 degrees C) and 104 degrees F (40 degrees C).

E. Short Circuit Current Rating:
1. Provide enclosed circuit breakers with listed short circuit current rating not less than the available fault current at the installed location as determined by short circuit study performed in accordance with Section 260573.

F. Provide electronic trip circuit breakers where indicated.

G. Ground Fault Protection: Where ground-fault protection is indicated, provide system listed and labeled as complying with UL 1053.
1. Where electronic circuit breakers equipped with integral ground fault protection are used, provide separate neutral current sensor where applicable.
2. Where accessory ground fault sensing and relaying equipment is used, equip companion circuit breakers with ground-fault shunt trips.

H. Molded Case Circuit Breakers:
1. Description: Quick-make, quick-break, over center toggle, trip-free, trip-indicating circuit breakers listed and labeled as complying with UL 489, and complying with FS W-C-375 where applicable; ratings, configurations, and features as indicated on the drawings.
2. Interrupting Capacity:
a. Provide circuit breakers with interrupting capacity as required to provide the short circuit current rating indicated, but not less than:
b. Fully Rated Systems: Provide circuit breakers with interrupting capacity not less than the short circuit current rating indicated.
3. Conductor Terminations:
a. Provide mechanical lugs.
b. Lug Material: Copper, suitable for terminating copper conductors only.
4. Electronic Trip Circuit Breakers: Furnish solid state, microprocessor-based, true rms sensing trip units.
a. Provide the following field-adjustable trip response settings:
1) Instantaneous pickup.
5. Multi-Pole Circuit Breakers: Furnish with common trip for all poles.
6. Provide the following circuit breaker types where indicated:
a. Ground Fault Circuit Interrupter (GFCI) Circuit Breakers: Listed as complying with UL 943, class A for protection of personnel.
b. Ground Fault Equipment Protection Circuit Breakers: Designed to trip at 30 mA for protection of equipment.
7. Provide the following features and accessories where indicated or where required to complete installation:
a. Shunt Trip: Provide coil voltage as required for connection to indicated trip actuator.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify that interior of building has been protected from weather.

B. Verify that work likely to damage wire and cable has been completed.

C. Verify that raceways, boxes, and equipment enclosures are installed and are properly sized to accommodate conductors and cables in accordance with NFPA 70.

D. Verify that field measurements are as indicated.

E. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

A. Low-Voltage Electrical Power Conductors and Cables:
1. Circuiting Requirements:
a. When circuit destination is indicated without specific routing, determine exact routing required.
b. Arrange circuiting to minimize splices.
c. Maintain separation of Class 1, Class 2, and Class 3 remote-control, signaling, and power-limited circuits in accordance with NFPA 70.
d. Maintain separation of wiring for emergency systems in accordance with NFPA 70.
e. Circuiting Adjustments: Unless otherwise indicated, when branch circuits are indicated as separate, combining them together in a single raceway is permitted, under the following conditions:
1) Provide no more than six current-carrying conductors in a single raceway. Dedicated neutral conductors are considered current-carrying conductors.
2) Increase size of conductors as required to account for ampacity derating.
3) Size raceways, boxes, etc. to accommodate conductors.
f. Common Neutrals: Unless otherwise indicated, sharing of neutral/grounded conductors among up to three single phase branch circuits of different phases installed in the same raceway is not permitted. Provide dedicated neutral/grounded conductor for each individual branch circuit.
1) Branch circuits fed from ground fault circuit interrupter (GFCI) circuit breakers.
2) Branch circuits fed from feed-through protection of GFI receptacles.
3) Branch circuits with dimming controls.
4) Branch circuits with isolated grounding conductor.
2. Installation in Raceway:
a. Tape ends of conductors and cables to prevent infiltration of moisture and other contaminants.
b. Pull all conductors and cables together into raceway at same time.
c. Do not damage conductors and cables or exceed manufacturer's recommended maximum pulling tension and sidewall pressure.
d. Use suitable wire pulling lubricant where necessary, except when lubricant is not recommended by the manufacturer.
3. Paralleled Conductors: Install conductors of the same length and terminate in the same manner.
4. Secure and support conductors and cables in accordance with NFPA 70 using suitable supports and methods approved by the authority having jurisdiction. Provide independent support from building structure. Do not provide support from raceways, piping, ductwork, or other systems.
a. Installation Above Suspended Ceilings: Do not provide support from ceiling support system. Do not provide support from ceiling grid or allow conductors and cables to lay on ceiling tiles.
b. Installation in Vertical Raceways: Provide supports where vertical rise exceeds permissible limits.
5. Neatly train and bundle conductors inside boxes, wireways, panelboards and other equipment enclosures.
6. Group or otherwise identify neutral/grounded conductors with associated ungrounded conductors inside enclosures in accordance with NFPA 70.
7. Make wiring connections using specified wiring connectors.
a. Make splices and taps only in accessible boxes. Do not pull splices into raceways or make splices in conduit bodies or wiring gutters.
b. Remove appropriate amount of conductor insulation for making connections without cutting, nicking or damaging conductors.
c. Mechanical Connectors: Secure connections according to manufacturer's recommended torque settings.
d. Compression Connectors: Secure connections using manufacturer's recommended tools and dies.
8. Insulate splices and taps that are made with uninsulated connectors using methods suitable for the application, with insulation and mechanical strength at least equivalent to unspliced conductors.
a. Dry Locations: Use insulating covers specifically designed for the connectors, electrical tape, or heat shrink tubing.
b. Damp Locations: Use insulating covers specifically designed for the connectors, electrical tape, or heat shrink tubing.
c. Wet Locations: Use heat shrink tubing.
9. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 078400.

B. Hangers and Supports:
1. Unless specifically indicated or approved by Architect, do not provide support from suspended ceiling support system or ceiling grid.
2. Do not penetrate or otherwise notch or cut structural members without approval of Structural Engineer.
3. Equipment Support and Attachment:
a. Use metal, fabricated supports or supports assembled from metal channel/strut to support equipment as required.
b. Use metal channel/strut to support surface-mounted equipment in wet or damp locations to provide space between equipment and mounting surface.
c. Securely fasten floor-mounted equipment. Do not install equipment such that it relies on its own weight for support.

C. Raceways and Boxes:
1. Surface Raceways:
a. Surface Nonmetallic Raceways: Install in accordance with NEMA BI 50061.
b. Arrange wireways and associated raceway connections to comply with NFPA 70, including but not limited to requirements for deflected conductors and wireways used as pullboxes. Increase size of wireway where necessary.
2. Boxes:
a. Unless otherwise indicated, boxes may be surface-mounted where exposed conduits are indicated or permitted.
b. Box Locations:
1) Locate boxes to be accessible. Provide access panels in accordance with Section 083100 as required where approved by the Architect.
2) Locate boxes as required for devices installed under other sections or by others.
3) Locate boxes so that wall plates do not span different building finishes.
4) Locate boxes so that wall plates do not cross masonry joints.
5) Unless otherwise indicated, where multiple outlet boxes are installed at the same location at different mounting heights, install along a common vertical center line.
6) Do not install flush-mounted boxes on opposite sides of walls back-to-back. Provide minimum 6 inches (150 mm) horizontal separation unless otherwise indicated.
7) Acoustic-Rated Walls: Do not install flush-mounted boxes on opposite sides of walls back-to-back; provide minimum 24 inches (610 mm) horizontal separation.
8) Fire Resistance Rated Walls: Install flush-mounted boxes such that the required fire resistance will not be reduced.
(a) Do not install flush-mounted boxes on opposite sides of walls back-to-back; provide minimum 24 inches (610 mm) separation where wall is constructed with individual noncommunicating stud cavities or protect both boxes with listed putty pads.
9) Locate junction and pull boxes in the following areas, unless otherwise indicated or approved by the Architect:
(a) Concealed above accessible suspended ceilings.
(b) Within joists in areas with no ceiling.
(c) Electrical rooms.
(d) Mechanical equipment rooms.
c. Box Supports:
1) Installation Above Suspended Ceilings: Do not provide support from ceiling grid or ceiling support system.
d. Flush-Mounted Boxes:
1) Install boxes in noncombustible materials such as concrete, tile, gypsum, plaster, etc. so that front edge of box or associated raised cover is not set back from finished surface more than 1/4 inch (6 mm) or does not project beyond finished surface.
e. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 078400.
f. Close unused box openings.
g. Install blank wall plates on junction boxes and on outlet boxes with no devices or equipment installed or designated for future use.

D. Conduits and Fittings:
1. Install galvanized steel rigid metal conduit (RMC) in accordance with NECA 101.
2. Install rigid polyvinyl chloride (PVC) conduit in accordance with NECA 111.
3. Install electrical nonmetallic tubing (ENT) in accordance with NECA 111.
4. Conduit Routing:
a. Unless dimensioned, conduit routing indicated is diagrammatic.
b. When conduit destination is indicated without specific routing, determine exact routing required.
c. Conduits in the following areas may be exposed, unless otherwise indicated:
1) Electrical rooms.
2) Mechanical equipment rooms.
d. Conduits installed underground or embedded in concrete may be routed in the shortest possible manner unless otherwise indicated. Route all other conduits parallel or perpendicular to building structure and surfaces, following surface contours where practical.
e. Arrange conduit to maintain adequate headroom, clearances, and access.
f. Arrange conduit to provide no more than the equivalent of four 90 degree bends between pull points.
g. Arrange conduit to provide no more than 150 feet (46 m) between pull points.
h. Route conduits above water and drain piping where possible.
i. Arrange conduit to prevent moisture traps. Provide drain fittings at low points and at sealing fittings where moisture may collect.
j. Maintain minimum clearance of 6 inches (150 mm) between conduits and piping for other systems.
k. Maintain minimum clearance of 12 inches (300 mm) between conduits and hot surfaces. This includes, but is not limited to:
1) Heaters.
2) Hot water piping.
l. Group parallel conduits in the same area together on a common rack.
5. Conduit Support:
a. Secure and support conduits in accordance with NFPA 70 and using suitable supports and methods approved by the authority having jurisdiction.
b. Use conduit strap to support single surface-mounted conduit.
1) Use clamp back spacer with conduit strap for damp and wet locations to provide space between conduit and mounting surface.
c. Use metal channel (strut) with accessory conduit clamps to support multiple parallel surface-mounted conduits.
d. Use conduit clamp to support single conduit from beam clamp or threaded rod.
e. Use of wire for support of conduits is not permitted.
6. Connections and Terminations:
a. Use approved zinc-rich paint or conduit joint compound on field-cut threads of galvanized steel conduits prior to making connections.
b. Where two threaded conduits must be joined and neither can be rotated, use three-piece couplings or split couplings. Do not use running threads.
c. Use suitable adapters where required to transition from one type of conduit to another.
d. Terminate threaded conduits in boxes and enclosures using threaded hubs or double lock nuts for dry locations and raintight hubs for wet locations.
e. Where spare conduits stub up through concrete floors and are not terminated in a box or enclosure, provide threaded couplings equipped with threaded plugs set flush with finished floor.
f. Provide insulating bushings or insulated throats at all conduit terminations to protect conductors.
g. Secure joints and connections to provide maximum mechanical strength and electrical continuity.
7. Penetrations:
a. Do not penetrate or otherwise notch or cut structural members, including footings and grade beams, without approval of Structural Engineer.
b. Make penetrations perpendicular to surfaces unless otherwise indicated.
c. Provide sleeves for penetrations as indicated or as required to facilitate installation. Set sleeves flush with exposed surfaces unless otherwise indicated or required.
d. Conceal bends for conduit risers emerging above ground.
e. Seal interior of conduits entering the building from underground at first accessible point to prevent entry of moisture and gases.
f. Make penetrations for roof-mounted equipment within associated equipment openings and curbs where possible to minimize roofing system penetrations. Where penetrations are necessary, seal as indicated or as required to preserve integrity of roofing system and maintain roof warranty. Include proposed locations of penetrations and methods for sealing with submittals.
g. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 078400.
8. Underground Installation:
a. Provide trenching and backfilling in accordance with Section 312316.13.
b. Minimum Cover, Unless Otherwise Indicated or Required:
1) Underground, Exterior: 24 inches (610 mm).
9. Provide pull string in all empty conduits and in conduits where conductors and cables are to be installed by others. Leave minimum slack of 12 inches (300 mm) at each end.

E. Cable Trays:
1. Arrange cable tray to provide required clearances and maintain cable access.
a. Minimum Clearance Above and Adjacent to Cable Tray: 12 inches (300 mm).
2. Cable Tray Support:
a. Use manufacturer's recommended hangers and supports, located in accordance with NEMA VE 2 and manufacturer's requirements, but not exceeding specified span unless otherwise approved by Engineer. Provide required support and attachment in accordance with Section 260529, where not furnished by cable tray manufacturer.
3. Grounding and Bonding Requirements, in Addition to Requirements of Section 260526:
a. Metal Cable Tray Systems: Use suitable bonding jumpers or classified connectors to provide electrical continuity.
b. Provide suitable equipment grounding conductor in each cable tray, except where cable tray contains only multiconductor cables with integral equipment grounding conductors. Do not use metal cable tray system as sole equipment grounding conductor.
4. Conduit Termination:
a. Use listed cable tray conduit clamps (evaluated for bonding connection) to terminate conduits at cable tray.
b. Provide insulating bushing at conduit termination to protect cables.
c. Provide independent support for conduit.
5. Cable Installation:
a. Use appropriate cable pulling tools, applied to prevent excessive force on cable tray system and maintain minimum cable bending radius.
b. Use cable clamps or cable ties to fasten conductors/cables to vertical and horizontal runs of cable tray.
6. Penetrations: Install firestopping to preserve fire resistance rating of building elements, using materials and methods specified in Section 078400.

F. Enclosed Safety Switches and Fuses:
1. Enclosed Safety Switches:
a. Except where indicated to be mounted adjacent to the equipment they supply, mount enclosed switches such that the highest position of the operating handle does not exceed 79 inches (2000 mm) above the floor or working platform.
b. Provide grounding and bonding in accordance with Section 260526.
2. Fuses:
a. Do not install fuses until circuits are ready to be energized.
b. Install fuses with label oriented such that manufacturer, type, and size are easily read.

G. Identification for Electrical Systems:
1. Install identification products to be plainly visible for examination, adjustment, servicing, and maintenance. Unless otherwise indicated, locate products as follows:
a. Surface-Mounted Equipment: Enclosure front.
b. Flush-Mounted Equipment: Inside of equipment door.
c. Free-Standing Equipment: Enclosure front; also enclosure rear for equipment with rear access.
d. Branch Devices: Adjacent to device.
e. Conduits: Legible from the floor.
f. Conductors and Cables: Legible from the point of access.
g. Devices: Outside face of cover.
2. Install identification products centered, level, and parallel with lines of item being identified.
3. Secure nameplates to exterior surfaces of enclosures using stainless steel screws and to interior surfaces using self-adhesive backing.
a. Do not use adhesives on exterior surfaces except where substrate cannot be penetrated.
4. Install self-adhesive labels and markers to achieve maximum adhesion, with no bubbles or wrinkles and edges properly sealed.

H. Enclosed Circuit Breakers:
1. Install flush-mounted enclosed circuit breakers so that trims fit completely flush to wall with no gaps and rough opening completely covered.
2. Set field-adjustable ground fault protection pickup and time delay settings.

END OF SECTION

SECTION 260505
SELECTIVE DEMOLITION FOR ELECTRICAL

PART 1 - GENERAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

GELFAND PARTNERS ARCHITECTS
165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

FILE#
APPL #

Client

Consultants

EDesignC Incorporated
583 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104
(415) 362-3484
252 9TH STREET, SUITE 303
OAKLAND, CA 94607
(510) 444-3484
91 CRESCENT LANE, SUITE 5
PLEASANT HILL, CA 94523
(415) 963-4303

TRUE

Drawing Record

REV	DESCRIPTION	DATE

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Architect

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HOWARTER
E18568
Exp: 12/31/2026
ELECTRICAL
STATE OF CALIFORNIA

Project
JUNIPERO SERRA ES MODULAR
151 Victoria St.
Daly City, CA 94015
2516.00

Sheet
TECHNICAL SPECIFICATIONS

E9.11

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1.01 SECTION INCLUDES

A. Electrical demolition.

1.02 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT

A. Materials and equipment for patching and extending work: As specified in individual sections.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify that abandoned wiring and equipment serve only abandoned facilities.

B. Demolition drawings are based on casual field observation and existing record documents.

C. Report discrepancies to Owner before disturbing existing installation.

D. Beginning of demolition means installer accepts existing conditions.

3.02 PREPARATION

A. Disconnect electrical systems in walls, floors, and ceilings to be removed.

B. Coordinate utility service outages with utility company.

C. Provide temporary wiring and connections to maintain existing systems in service during construction. When work must be performed on energized equipment or circuits, use personnel experienced in such operations.

D. Existing Electrical Service: Maintain existing system in service until new system is complete and ready for service. Disable system only to make switchovers and connections. Minimize outage duration.
1. Obtain permission from Owner at least 24 hours before partially or completely disabling system.
2. Make temporary connections to maintain service in areas adjacent to work area.

E. Existing Fire Alarm System: Maintain existing system in service until new system is accepted. Disable system only to make switchovers and connections. Minimize outage duration.
1. Notify Owner before partially or completely disabling system.
2. Notify local fire service.
3. Make notifications at least 24 hours in advance.
4. Make temporary connections to maintain service in areas adjacent to work area.

F. Existing Telephone System: Maintain existing system in service until new system is complete and ready for service. Disable system only to make switchovers and connections. Minimize outage duration.

3.03 DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK

A. Perform work for removal and disposal of equipment and materials containing toxic substances regulated under the Federal Toxic Substances Control Act (TSCA) in accordance with applicable federal, state, and local regulations. Applicable equipment and materials include, but are not limited to:

B. Remove, relocate, and extend existing installations to accommodate new construction.

C. Remove abandoned wiring to source of supply.

D. Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with walls and floors, and patch surfaces.

E. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit servicing them is abandoned and removed. Provide blank cover for abandoned outlets that are not removed.

F. Disconnect and remove abandoned panelboards and distribution equipment.

G. Disconnect and remove electrical devices and equipment serving utilization equipment that has been removed.

H. Disconnect and remove abandoned luminaires. Remove brackets, stems, hangers, and other accessories.

I. Repair adjacent construction and finishes damaged during demolition and extension work.

J. Maintain access to existing electrical installations that remain active. Modify installation or provide access panel as appropriate.

K. Extend existing installations using materials and methods compatible with existing electrical installations, or as specified.

3.04 CLEANING AND REPAIR

A. Clean and repair existing materials and equipment that remain or that are to be reused.

B. Panelboards: Clean exposed surfaces and check tightness of electrical connections. Replace damaged circuit breakers and provide closure plates for vacant positions. Provide typed circuit directory showing revised circuiting arrangement.

C. Luminaires: Remove existing luminaires for cleaning. Use mild detergent to clean all exterior and interior surfaces; rinse with clean water and wipe dry. Replace lamps, ballasts and broken electrical parts.

END OF SECTION

SECTION 260526
GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Grounding and bonding requirements.

B. Conductors for grounding and bonding.

C. Connectors for grounding and bonding.

D. Ground bars.

E. Ground rod electrodes.

1.02 RELATED REQUIREMENTS

A. Section 260500 - Electrical Basic Materials and Methods. Includes:
1. Low-Voltage Power Conductors and Cables.
2. Hangers and Supports.
3. Raceways and Boxes.
4. Conduits and Fittings.
5. Cable Trays.
6. Enclosed Safety Switches and Fuses.
7. Identification for Electrical Systems.
8. Enclosed Circuit Breakers.

B. Section 265600 - Exterior Lighting: Additional grounding and bonding requirements for pole-mounted luminaires.

1.03 REFERENCE STANDARDS

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
1. Verify exact locations of underground metal water service pipe entrances to building.
2. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

B. Sequencing:
1. Do not install ground rod electrodes until final backfill and compaction is complete.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittals procedures.

B. Product Data: Provide manufacturer's standard catalog pages and data sheets for grounding and bonding system components.

PART 2 - PRODUCTS

2.01 GROUNDING AND BONDING REQUIREMENTS

A. Do not use products for applications other than as permitted by NFPA 70 and product listing.

B. Unless specifically indicated to be excluded, provide all required components, conductors, connectors, conduit, boxes, fittings, supports, accessories, etc. as necessary for a complete grounding and bonding system.

C. Where conductor size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.

D. Grounding Electrode System:
1. Provide connection to required and supplemental grounding electrodes indicated to form grounding electrode system.
a. Provide continuous grounding electrode conductors without splice or joint.
b. Install grounding electrode conductors in raceway where exposed to physical damage. Bond grounding electrode conductor to metallic raceways at each end with bonding jumper.
2. Ground Rod Electrode(s):
a. Provide three electrodes in an equilateral triangle configuration unless otherwise indicated or required.
b. Space electrodes not less than 10 feet (3.0 m) from each other and any other ground electrode.

E. Bonding and Equipment Grounding:
1. Provide bonding for equipment grounding conductors, equipment ground busses, metallic equipment enclosures, metallic raceways and boxes, device grounding terminals, and other normally non-current-carrying conductive materials enclosing electrical conductors/equipment or likely to become energized as indicated and in accordance with NFPA 70.
2. Raceways may be used as sole equipment grounding conductor where permitted by NFPA 70. Provide insulated equipment grounding conductor where indicated or required, including but not limited to:
a. In each nonmetallic feeder and branch circuit raceway.
b. In each flexible conduit.
c. In outdoor portions of each metallic feeder and branch circuit raceway utilizing non-threaded fittings (where permitted) supplying rooftop multimotor and combination-load air-conditioning and refrigerating equipment.
3. Where circuit conductor sizes are increased for voltage drop, increase size of equipment grounding conductor proportionally in accordance with NFPA 70.
4. Unless otherwise indicated, connect wiring device grounding terminal to branch circuit equipment grounding conductor and to outlet box with bonding jumper.
5. Terminate branch circuit equipment grounding conductors on solidly bonded equipment ground bus only. Do not terminate on neutral (grounded) or isolated/insulated ground bus.
6. Provide bonding jumper across expansion or expansion/deflection fittings provided to accommodate conduit movement.

F. Communications Systems Grounding and Bonding:
1. Provide intersystem bonding termination at service equipment or metering equipment enclosure and at disconnecting means for any additional buildings or structures in accordance with NFPA 70.
2. Provide bonding jumper in raceway from intersystem bonding termination to each communications room or backboard and provide ground bar for termination.
a. Bonding Jumper Size: 6 AWG, unless otherwise indicated or required.
b. Raceway Size: 3/4 inch (21 mm) trade size unless otherwise indicated or required.
c. Ground Bar Size: 1/4 by 2 by 12 inches (6 by 50 by 300 mm) unless otherwise indicated or required.
d. Ground Bar Mounting Height: 18 inches (450 mm) above finished floor unless otherwise indicated.

2.02 GROUNDING AND BONDING COMPONENTS

A. General Requirements:
1. Provide products listed, classified, and labeled as suitable for the purpose intended.
2. Provide products listed and labeled as complying with UL 467 where applicable.

B. Conductors for Grounding and Bonding, in Addition to Requirements of Section 260526:
1. Use insulated copper conductors unless otherwise indicated.
a. Exceptions:
1) Use bare copper conductors where installed underground in direct contact with earth.
2) Use bare copper conductors where directly encased in concrete (not in raceway).

C. Connectors for Grounding and Bonding:
1. Description: Connectors appropriate for the application and suitable for the conductors and items to be connected; listed and labeled as complying with UL 467.
2. Unless otherwise indicated, use exothermic welded connections for underground, concealed and other inaccessible connections.
3. Unless otherwise indicated, use mechanical connectors, compression connectors, or exothermic welded connections for accessible connections.

D. Ground Bars:
1. Description: Copper rectangular ground bars with mounting brackets and insulators.
2. Size: As indicated.
3. Holes for Connections: As indicated or as required for connections to be made.

E. Ground Rod Electrodes:
1. Comply with NEMA GR 1.
2. Material: Copper-bonded (copper-clad) steel.
3. Size: 3/4 inch (19 mm) diameter by 10 feet (3.0 m) length, unless otherwise indicated.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install products in accordance with manufacturer's instructions.

B. Perform work in accordance with NECA 1 (general workmanship).

C. Ground Rod Electrodes: Unless otherwise indicated, install ground rod electrodes vertically. Where encountered rock prohibits vertical installation, install at 45 degree angle or bury horizontally in trench at least 30 inches (750 mm) deep in accordance with NFPA 70 or provide ground plates.
1. Indoor Installations: Unless otherwise indicated, install with 4 inches (100 mm) of top of rod exposed.

D. Make grounding and bonding connections using specified connectors.
1. Remove appropriate amount of conductor insulation for making connections without cutting, nicking or damaging conductors. Do not remove conductor strands to facilitate insertion into connector.
2. Remove nonconductive paint, enamel, or similar coating at threads, contact points, and contact surfaces.
3. Exothermic Welds: Make connections using molds and weld material suitable for the items to be connected in accordance with manufacturer's recommendations.
4. Mechanical Connectors: Secure connections according to manufacturer's recommended torque settings.
5. Compression Connectors: Secure connections using manufacturer's recommended tools and dies.

E. Identify grounding and bonding system components in accordance with Section 260553.

3.02 FIELD QUALITY CONTROL

A. See Section 014000 - Quality Requirements, for additional requirements.

B. Inspect and test in accordance with NETA ATS except Section 4.

C. Perform inspections and tests listed in NETA ATS, Section 7.13.

D. Perform ground electrode resistance tests under normally dry conditions. Precipitation within the previous 48 hours does not constitute normally dry conditions.

E. Investigate and correct deficiencies where measured ground resistances do not comply with specified requirements.

END OF SECTION

DIVISION 27 - COMMUNICATIONS

SECTION 271000
STRUCTURED CABLING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Communications system design requirements.

B. Communications pathways.

C. Copper cable and terminations.

D. Fiber optic cable and interconnecting devices.

E. Communications equipment room fittings.

F. Communications outlets.

G. Communications grounding and bonding.

H. Communications identification.

1.02 REFERENCE STANDARDS

A. EIA/ECA-310 - Cabinets, Racks, Panels, and Associated Equipment; 2005e.

B. ICEA S-83-596 - Indoor Optical Cable; 2021.

C. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

D. TIA-455-21 - FOTP-21 - Mating Durability of Fiber Optic Interconnecting Devices; 1988a (Reaffirmed 2012).

E. TIA-526-7 - Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant, Adoption of IEC 61280-4-2 Edition 2: Fibre-Optic Communications Subsystem Test Procedures – Part 4-2: Installed Cable Plant – Single-Mode Attenuation and Optical Return Loss Measurement; 2015a (Reaffirmed 2022).

F. TIA-568 (SET) - Commercial Building Telecommunications Cabling Standard Set; 2024.

G. TIA-568.2 - Balanced Twisted-Pair Telecommunications Cabling and Components Standards; 2018d, with Addenda (2020).

H. TIA-568.3 - Optical Fiber Cabling and Components Standard; 2022e.

I. TIA-569 - Telecommunications Pathways and Spaces; 2019e, with Addendum (2022).

J. TIA-570 - Residential Telecommunications Infrastructure Standard; 2018d.

K. TIA-598 - Optical Fiber Cable Color Coding; 2014d, with Addendum (2018).

L. TIA-606 - Administration Standard for Telecommunications Infrastructure; 2021d.

M. TIA-607 - Telecommunications Bonding and Grounding (Earthing) for Customer Premises; 2024e.

N. UL 444 - Communications Cables; Current Edition, Including All Revisions.

O. UL 514C - Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers; Current Edition, Including All Revisions.

P. UL 1651 - Fiber Optic Cable; Current Edition, Including All Revisions.

Q. UL 1863 - Communications-Circuit Accessories; Current Edition, Including All Revisions.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
1. Coordinate the work with other trades to avoid placement of other utilities or obstructions within the spaces dedicated for communications equipment.
2. Coordinate arrangement of communications equipment with the dimensions and clearance requirements of the actual equipment to be installed.
3. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

1.04 SUBMITTALS

A. See Section 01 33 00 for submittal procedures.

B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each product.

C. Shop Drawings: Show compliance with requirements on isometric schematic diagram of network layout, showing cable routings, telecommunication closets, rack and enclosure layouts and locations, service entrance, and grounding, prepared and approved by BICSI Registered Communications Distribution Designer (RCDD).

D. Evidence of qualifications for installer.

E. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and operation of product.

F. Field Test Reports.

G. Project Record Documents: Prepared and approved by BICSI Registered Communications Distribution Designer (RCDD).
1. Record actual locations of outlet boxes and distribution frames.
2. Show as-installed color coding, pair assignment, polarization, and cross-connect layout.
3. Identify distribution frames and equipment rooms by room number on drawings.

H. Operation and Maintenance Data: List of all components with part numbers, sources of supply, and operation and maintenance instructions; include copy of project record documents.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: A company having at least 3 years experience in the installation and testing of the type of system specified, and:
1. Employing a BICSI Registered Communications Distribution Designer (RCDD).
2. Supervisors and installers factory certified by manufacturers of products to be installed.

B. Products: Listed, classified, and labeled as suitable for the purpose intended.

1.06 WARRANTY

A. See Section 01 77 00 - Closeout Procedures, for additional warranty requirements.

B. Correct defective Work within a 2 year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 SYSTEM DESIGN

A. Provide a complete permanent system of cabling and pathways for voice and data communications, including cables, conduits and wireways, pull wires, support structures, enclosures and cabinets, and outlets.
1. Comply with TIA-568 (SET) (cabling) and TIA-569 (pathways) (commercial standards).
2. Provide fixed cables and pathways that comply with NFPA 70 and TIA-607 and are UL listed or third party independent testing laboratory certified.
3. Provide connection devices that are rated for operation under conditions of 32 to 140 degrees F (0 to 60 degrees C) at relative humidity of 0 to 95 percent, noncondensing.
4. In this project, the term plenum is defined as return air spaces above ceilings, inside ducts, under raised floors, and other air-handling spaces.

B. Main Distribution Frame (MDF): Centrally located support structure for terminating backbone cables that extend to intermediate distribution frames (IDFs), functioning as point of presence to external service provider.
1. Locate main distribution frame as indicated on the drawings.
2. Capacity: As required to terminate all cables required by design criteria plus minimum 25 percent spare space.

C. Intermediate Distribution Frames (IDF): Support structures for terminating horizontal cables that extend to telecommunications outlets.
1. Locate intermediate distribution frames as indicated on the drawings.

D. Backbone Cabling: Cabling, pathways, and terminal hardware connecting intermediate distribution frames (IDF's) with main distribution frame (MDF), wired in star topology with main distribution frame at center hub of star.

E. Cabling to Outlets: Specified horizontal cabling, wired in star topology to distribution frame located at center hub of star; also referred to as "links".

2.02 COPPER CABLE AND TERMINATIONS

A. Manufacturers:
1. Leviton
2. Belden
3. Superior Essex
4. Substitutions: See Section 01 62 00 - Product Options and Substitutions.

B. Copper Horizontal Cable:
1. Description: 100 ohm, balanced twisted pair cable complying with TIA-568.2 and listed and labeled as complying with UL 444.
2. Cable Type - Voice: TIA-568.2 Category 5e UTP (unshielded twisted pair); 24 AWG.
3. Cable Capacity: 4-pair.
4. Cable Applications:
a. Plenum Applications: Use listed NFPA 70 Type CMP plenum cable.
b. Riser Applications: Use listed NFPA 70 Type CMR riser cable or Type CMP plenum cable.
c. General Purpose Applications: Use listed NFPA 70 Type CM/CMG general purpose cable, Type CMR riser cable, or Type CMP plenum cable.
5. Cable Jacket Color - Voice and Data Cable: Blue.

C. Copper Cable Terminations: Insulation displacement connection (IDC) type using appropriate tool; use screw connections only where specifically indicated.

D. Jacks and Connectors: Modular RJ-45, non-keyed, terminated with 110-style insulation displacement connectors (IDC); high impact thermoplastic housing; suitable for and complying with same standard as specified horizontal cable; UL 1863 listed.
1. Performance: 500 mating cycles.
2. Voice and Data Jacks: 8-position modular jack, color-coded for both T568A and T568B wiring configurations.

E. Copper Patch Cords:
1. Description: Factory-fabricated 4-pair cable assemblies with 8-position modular connectors terminated at each end.
2. Patch Cords for Patch Panels:
a. Quantity: One for each patch panel port.
3. Patch Cords for Work Areas:
a. Quantity: One for each work area outlet port.

2.03 FIBER OPTIC CABLE AND INTERCONNECTING DEVICES

A. Manufacturers:
1. LevitonBeldenSuperior Essex
2. Belden
3. Superior Essex
4. Substitutions: See Section 01 62 00 - Product Options and Substitutions.

B. Fiber Optic Backbone Cable:
1. Description: Tight buffered, non-conductive fiber optic cable complying with TIA-568.3, TIA-598, ICEA S-83-596 and listed as complying with UL 444 and UL 1651.
2. Cable Capacity: Quantity of fibers as indicated on drawings.
3. Cable Applications:
a. Plenum Applications: Use listed NFPA 70 Type OFNP plenum cable.
b. Riser Applications: Use listed NFPA 70 Type OFNR riser cable or Type OFNP plenum cable.

C. Fiber Optic Interconnecting Devices:
1. Connector Type: Type LC.
2. Connector Performance: 500 mating cycles, when tested in accordance with TIA-455-21.
3. Maximum Attenuation/Insertion Loss: 0.3 dB.

D. Fiber Optic Patch Cords:
1. Description: Factory-fabricated 2-fiber cable assemblies with suitable connectors at each end.
2. Patch Cords for Patch Panels:
a. Quantity: One for each pair of patch panel ports.

2.04 COMMUNICATIONS EQUIPMENT ROOM FITTINGS

A. Copper Cross-Connection Equipment:
1. Manufacturers:
a. Leviton
b. Belden
c. Superior Essex
d. Substitutions: See Section 01 62 00 - Product Options and Substitutions.
2. Patch Panels for Copper Cabling: Sized to fit EIA/ECA-310 standard 19 inch (482.6 mm) wide equipment racks; 0.09 inch (2.2 mm) thick aluminum; cabling terminated on Type 110 insulation displacement connectors; printed circuit board interface.
a. Jacks: Non-keyed RJ-45, suitable for and complying with same standard as cable to be terminated; maximum 48 ports per standard width panel.
b. Capacity: Provide ports sufficient for cables to be terminated plus 25 percent spare.
c. Labels: Factory installed laminated plastic nameplates above each port, numbered consecutively; comply with TIA-606.
d. Provide incoming cable strain relief and routing guides on back of panel.

B. Fiber Optic Cross-Connection Equipment:
1. Manufacturers:
a. Leviton
b. Belden
c. Superior Essex
2. Patch Panels for Fiber Optic Cabling: Sized to fit EIA/ECA-310 standard 19 inch (482.6 mm) wide equipment racks; 0.09 inch (2.2 mm) thick aluminum.
a. Adapters: As specified above under FIBER OPTIC CABLE AND INTERCONNECTING DEVICES; maximum of 24 duplex adaptors per standard panel width.
b. Labels: Factory installed laminated plastic nameplates above each port, numbered consecutively; comply with TIA-606.
c. Provide incoming cable strain relief and routing guides on back of panel.
d. Provide rear cable management tray at least 8 inches (203 mm) deep with removable cover.
e. Provide dust covers for unused adapters.

C. Backboards: Interior grade plywood without voids, 3/4 inch (19 mm) thick; UL-labeled fire-retardant.
1. Do not paint over UL label.

D. Equipment Frames, Racks and Cabinets:
1. Manufacturers:
a. Chatsworth Products (CPI)
b. Belden
c. Substitutions: See Section 01 62 00 - Product Options and Substitutions.
2. Component Racks: EIA/ECA-310 standard 19 inch (482.6 mm) wide.
3. Wall Mounted Racks: Steel construction, hinged to allow access to back of installed components.
4. Locks: Keyed alike.

E. Cable Management:
1. Manufacturers:
a. Leviton
b. BeldenSuperior Essex
c. Superior Essex
d. Substitutions: See Section 01 62 00 - Product Options and Substitutions.

2.05 COMMUNICATIONS OUTLETS

A. Manufacturers:
1. Leviton
2. Belden
3. Superior Essex
4. Substitutions: See Section 01 62 00 - Product Options and Substitutions.

B. Outlet Boxes:
1. Provide depth as required to accommodate cable manufacturer's recommended minimum conductor bend radius.
2. Minimum Size, Unless Otherwise Indicated:
a. Voice Only Outlets: 4 inch by 2 inch by 2-1/8 inch deep (100 by 50 by 54 mm) trade size.
b. Data or Combination Voice/Data Outlets: 4 inch square by 2-1/8 inch deep (100 by 54 mm) trade size.

C. Wall Plates:
1. Comply with system design standards and UL 514C.
2. Accepts modular jacks/inserts.
3. Capacity:
a. Data or Combination Voice/Data Outlets: 4 ports.
4. Wall Plate Material/Finish - Flush-Mounted Outlets: Match wiring device and wall plate finishes specified in Section 262726.

2.06 GROUNDING AND BONDING COMPONENTS

A. Comply with TIA-607.

2.07 IDENTIFICATION PRODUCTS

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GELFAND PARTNERS ARCHITECTS
165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

FILE#
APPL #

Client

Consultants

EDesignC Incorporated
583 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104
(415) 362-3484
312 9TH STREET, SUITE 303
OAKLAND, CA 94607
91 CRESCENT LANE, SUITE 5
PLEASANT HILL, CA 94523
(415) 963-4303

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STEPHEN HOWARD FER
REGISTERED PROFESSIONAL ENGINEER
E18568
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A. Comply with TIA-606.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Comply with latest editions and addenda of TIA-570, TIA-607, NFPA 70, and SYSTEM DESIGN as specified in PART 2.

B. Comply with Communication Service Provider requirements.

C. Grounding and Bonding: Perform in accordance with TIA-607 and NFPA 70.

3.02 INSTALLATION OF PATHWAYS

A. Install pathways with the following minimum clearances:
1. 48 inches (1220 mm) from motors, generators, frequency converters, transformers, x-ray equipment, and uninterruptible power systems.
2. 12 inches (300 mm) from power conduits and cables and panelboards.
3. 5 inches (125 mm) from fluorescent and high frequency lighting fixtures.
4. 6 inches (150 mm) from flues, hot water pipes, and steam pipes.

B. Conduit, in Addition to Requirements of Section 26 05 00:
1. Arrange conduit to provide no more than the equivalent of two 90 degree bend(s) between pull points.
2. Conduit Bends: Inside radius not less than 10 times conduit internal diameter.
3. Arrange conduit to provide no more than 100 feet (30 m) between pull points.
4. Do not use conduit bodies.

C. Outlet Boxes:
1. Coordinate locations of outlet boxes provided under Section 26 05 00 as required for installation of telecommunications outlets provided under this section.
   a. Mounting Heights: Unless otherwise indicated, as follows:
      1) Telephone and Data Outlets: 18 inches (450 mm) above finished floor.
      2) Telephone Outlets for Side-Reach Wall-Mounted Telephones: 54 inches (1.4 m) above finished floor to top of telephone.
      3) Telephone Outlets for Forward-Reach Wall-Mounted Telephones: 48 inches (1.2 m) above finished floor to top of telephone.
   b. Orient outlet boxes for vertical installation of wiring devices unless otherwise indicated.
   c. Provide minimum of 24 inches (600 mm) horizontal separation between flush mounted outlet boxes installed on opposite sides of fire rated walls.

3.03 INSTALLATION OF EQUIPMENT AND CABLING

A. Cabling:
1. Do not bend cable at radius less than manufacturer's recommended bend radius; for unshielded twisted pair use bend radius of not less than 4 times cable diameter.
2. Do not over-cinch or crush cables.
3. Do not exceed manufacturer's recommended cable pull tension.
4. When installing in conduit, use only lubricants approved by cable manufacturer and do not chafe or damage outer jacket.

B. Service Loops (Slack or Excess Length): Provide the following minimum extra length of cable, looped neatly:
1. At Distribution Frames: 120 inches (3000 mm).
2. At Outlets - Copper: 12 inches (305 mm).

C. Copper Cabling:
1. Category 5e and Above: Maintain cable geometry; do not untwist more than 1/2 inch (12 mm) from point of termination.
2. For 4-pair cables in conduit, do not exceed 25 pounds (110 N) pull tension.
3. Use T568B wiring configuration.

D. Fiber Optic Cabling:
1. Prepare for pulling by cutting outer jacket for 10 inches (250 mm) from end, leaving strength members exposed. Twist strength members together and attach to pulling eye.
2. Support vertical cable at intervals as recommended by manufacturer.

E. Wall-Mounted Racks and Enclosures:
1. Install to plywood backboards only, unless otherwise indicated.

F. Identification:
1. Use wire and cable markers to identify cables at each end.
2. Use manufacturer-furnished label inserts, identification labels, or engraved wallplate to identify each jack at communications outlets with unique identifier.
3. Use identification nameplate to identify cross-connection equipment, equipment racks, and cabinets.

3.04 FIELD QUALITY CONTROL

A. Comply with inspection and testing requirements of specified installation standards.

B. Visual Inspection:
1. Inspect cable jackets for certification markings.
2. Inspect cable terminations for color coded labels of proper type.
3. Inspect outlet plates and patch panels for complete labels.
4. Inspect patch cords for complete labels.

C. Testing - Copper Cabling and Associated Equipment:
1. Test backbone cables after termination but before cross-connection.
2. Test backbone cables for DC loop resistance, shorts, opens, intermittent faults, and polarity between connectors and between conductors and shield, if cable has overall shield.
3. Test operation of shorting bars in connection blocks.
4. Category 5e and Above Backbone: Perform near end cross talk (NEXT) and attenuation tests.
5. Category 5e and Above Links: Perform tests for wire map, length, attenuation, NEXT, and propagation delay.

D. Testing - Fiber Optic Cabling:
1. Backbone: Perform optical fiber end-to-end attenuation test using an optical time domain reflectometer (OTDR) and manufacturer's recommended test procedures; perform verification acceptance tests and factory reel tests.
2. Single Mode Backbone: Perform tests in accordance with TIA-526-7.

E. Final Testing: After all work is complete, including installation of telecommunications outlets, and telephone dial tone service is active, test each voice jack for dial tone.

END OF SECTION

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GELFAND PARTNERS ARCHITECTS

165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

FILE#
APPL #

Client

Consultants

EDesignC Incorporated
583 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104
252 9TH STREET, SUITE 303
OAKLAND, CA 94607
91 CRESCENT LANE, SUITE 5
PLEASANT HILL, CA 94523
(415) 963-4303

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REGISTERED PROFESSIONAL ENGINEER
STEPHEN HOWALTER
E18568
Exp: 12/31/2026
ELECTRICAL
STATE OF CALIFORNIA

Project
JUNIPERO SERRA ES MODULAR

151 Victoria St.
Daly City, CA 94015

2516.00

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TECHNICAL SPECIFICATIONS

E9.13

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GENERAL FIRE ALARM NOTES

1. APPLICABLE STANDARD 2022 NFPA 72.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY AHJ.
3. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE AHJ.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION THE ARCHITECT/ENGINEER OF THE PROJECT.
6. ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7 & 7A, UL OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR ENTIRE LENS MOUNTED BETWEEN 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES TO BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 110 DBA AT THE MINIMUM HEARING DISTANCE . SOUND LEVEL SHALL BE MAINTAINED FOR A DURATION OF AT LEAST 60 SECONDS.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN THE SAME FIELD OF VIEW WITH FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVAL FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
16. PER CEC STANDARDS, 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. "T" TAPPING OF NOTIFICATION APPLIANCES IS NOT PERMITTED.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED 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. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. COMPLETE THE NFPA 72 RECORD OF COMPLETION, TESTING ALL DEVICES AND APPLIANCES. PROVIDE A COPY OF THE COMPLETED RECORD OF COMPLETION TO THE OWNER, ARCHITECT, AND LOCAL FIRE AUTHORITY.
22. CONTROL PANELS, REMOTE ANNUNCIATORS AND MANUAL FIRE ALARM PULL STATIONS SHALL BE INSTALLED WITH THEIR OPERABLE PARTS MOUNTED AT 48"
23. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
24. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST. SEE NOTE 27.
25. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
26. WIRING AND MATERIALS PER CEC ARTICLE 760.
27. COORDINATE WITH AUTOMATIC FIRE SPRINKLER SYSTEM CONTRACTOR.
28. FIRE ALARM DEVICES SHALL BE SYNCHRONIZED. PROVIDE MODULES AND WIRES AS NECESSARY.
29. IF ROUTING DIFFERS SIGNIFICANTLY FROM THESE PLANS, APPROVAL FROM THE PROJECT ELECTRICAL ENGINEER MUST BE OBTAINED BEFORE CONSTRUCTION. AFTER CONSTRUCTION, PROVIDE ACCURATE FIELD RECORD DRAWINGS TO OWNER.
30. INDEPENDENT TESTING COMPANY HIRED BY THE CONTRACTOR SHALL TEST SOUND LEVELS TO MEET THE SOUND REQUIREMENTS. CONTRACTOR MUST SUBMIT RESULT OF THE SOUND TEST TO THE PROJECT ELECTRICAL ENGINEER AND MAY BE REQUIRED TO RELOCATE OR ADD AUDIBLE DEVICES TO MEET THE DBA REQUIREMENT. CONTRACTOR BID SHALL INCLUDE TWO (2) SPARE OF EACH TYPE OF SIGNALING DEVICES WITH CONNECTION TO FACP AS REQUIRED (I.E. HORN, HORN/STROBE).
31. CONNECT AC POWER TO (N) FACP IN THE PRESENCE OF THE FACP MANUFACTURER REPRESENTATIVE.
32. FIRE ALARM CONTROL PANEL SHALL BE CONNECTED TO CELLULAR DIALER TO SUPERVISING STATION PER NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS UNDER UNDERWRITES LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
33. DEVICE LOCATIONS IN FRONT OF HOUSE SPACES TO BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.

SYMBOLS (NOT ALL USED)

GENERAL SYMBOLS

# / X	# = DETAIL NUMBER X = SHEET NUMBER
—OH—OH—	OVERHEAD FIRE ALARM CABLING VIA MESSENGER WIRE.
	ENLARGED PLANS
	BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED IN CEILING OR WALL.
	BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND.
	CONDUIT STUBBED THROUGH WALL.
	BRANCH CIRCUIT HOMERUN TO PANEL.
M	MAST AND WEATHERHEAD ABOVE ROOF FOR AERIAL INSTALLATION.
FATC	EXISTING FIRE ALARM TERMINAL CABINET.
FACP	EXISTING FIRE ALARM CONTROL PANEL.
FAA	EXISTING FIRE ALARM ANNUNCIATOR.

NEW FIRE ALARM DEVICE SYMBOLS

SYMBOL	DEVICE	MANUFACTURER	MODEL #	CSFM
S #	STROBE # = CANDELA RATING	SIEMENS	SC-ST-WW-F	7125-0067:0523
SS #	SPEAKER STROBE # = CANDELA RATING	SIEMENS	SC-SS-WR-F	7320-0067:0521
S	SMOKE DETECTOR	SIEMENS	FDO421	7272-0067:0258
WP SS #	EXTERIOR WEATHERPROOF SPEAKER	SIEMENS	SC-SS-WR-F	7125-0067:0523
°F	HEAT DETECTOR (ABOVE CEILING @ 194°F)	SIEMENS	FDT421	7272-0067:0258

FIRE ALARM SEQUENCE OF OPERATION

FIRE ALARM DEVICES \ FIRE ALARM OPERATION	ANNUNCIATE ALARM CONDITION AT FACP	ANNUNCIATE TROUBLE CONDITION AT FACP	ANNUNCIATE SUPERVISORY AT FACP	ANNUNCIATE ALARM CONDITION AT COMMUNICATOR	ANNUNCIATE TROUBLE AT ANNUNCIATOR	ANNUNCIATE SUPERVISORY CONDITION AT ANNUNCIATOR	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION
SMOKE DETECTOR	●			●			●		
HEAT DETECTOR	●			●			●		
FIRE ALARM AC POWER FAILURE		●	●		●	●		●	●
FIRE ALARM SYSTEM LOW BATTERY		●	●		●				●
OPEN CIRCUIT		●	●		●				●
GROUND FAULT		●	●		●				●
NOTIFICATION APPLIANCE CIRCUIT SHORT		●	●		●				●

FIRE ALARM SYSTEM RESET PROCEDURE

1. ACKNOWLEDGE: PRESS THE ACK (ACKNOWLEDGE) BUTTON TO SILENCE THE PANEL PIEZO / BUZZER.

2. INVESTIGATE: CONFIRM THE CAUSE OF THE ALARM (E.G., INITIATING DEVICE, TROUBLE, SUPERVISORY):
   A. CHECK ZONES / POINT DISPLAY ON PANEL OR ANNUNCIATOR.
   B. PHYSICALLY INSPECT DEVICES IN ALARM, IF SAFE AND PERMITTED.

3. CORRECT FAULT: IF THE CAUSE WAS A FALSE ALARM (E.G., SMOKE CLEARED, PULL STATION RESET), RESET THE INITIATING DEVICE(S):
   A. MANUALLY RESET PULL STATIONS (IF USED) BACK TO THEIR REST POSITION.
   B. ENSURE SMOKE / HEAT DETECTORS ARE NO LONGER IN ALARM CONDITION.

4. RESET SYSTEM: PRESS AND HOLD (OR PRESS, DEPENDING ON MANUFACTURER) THE RESET BUTTON ON THE FACP:
   A. WAIT FOR THE SYSTEM TO RETURN TO "NORMAL" STATUS (NO ACTIVE ALARMS/TROUBLES).

5. CONFIRM AND MONITOR:
   A. VERIFY THE PANEL SHOWS "NORMAL" (OR EQUIVALENT) CONDITION.
   B. CONFIRM THAT REMOTE ANNUNCIATORS ALSO SHOW NORMAL STATUS.

6. REPORT: AFTER RESET, NOTIFY BUILDING / FIRE SAFETY PERSONNEL (OR OTHER DESIGNATED PERSON) OF THE ALARM EVENT, INCLUDING:
   A. WHAT CAUSED THE ALARM (IF KNOWN)
   B. WHETHER A RESET WAS SUCCESSFUL OR IF THE SYSTEM RE-ALARMED

7. LOG: ENTER THE EVENT IN THE FIRE ALARM EVENT LOG / MAINTENANCE LOG, NOTING TIME OF ALARM, RESET, AND INVESTIGATION FINDINGS.

SCOPE OF WORK

1. FIRE ALARM SYSTEM
   - EXISTING AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM TO REMAIN.
   - FURNISH AND INSTALL NEW DEVICES AS SHOWN ON PLANS ON AREAS PART OF SCOPE OF WORK.
   - NEW DEVICES SHALL BE COMPATIBLE WITH EXISTING SYSTEM.
   - CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF FIRE ALARM DEVICES PRIOR TO WORK.
   - RUN RESET PROCEDURE TO FIRE ALARM SYSTEM PER NFPA 72 23.8.2.9.3. SEE FIRE ALARM SYSTEM RESET PROCEDURE SECTION ON THIS SHEET.

FIRE ALARM SYSTEM DESCRIPTION

1. NEW INITIATING AND NOTIFICATION DEVICES FIRE ALARM CIRCUITS ARE ADDRESSABLE AND WIRED AS CLASS B CIRCUIT.

2. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.

ABBREVIATIONS

(E)	EXISTING TO REMAIN	MTD	MOUNTED
(F)	FUTURE	MV	MEDIUM VOLTAGE
(N)	NEW	N	NEUTRAL
(RR)	REMOVE AND RELOCATE	N.E.C.	NATIONAL ELECTRICAL CODE
A	AMPERE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
AC	ALTERNATING CURRENT		
AF	AMPERE RATING OF FUSE	NEUT	NEUTRAL
AFCI	ARC FAULT CIRCUIT INTERRUPTER	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
AV	AUDIO/VISUAL	OS	OCCUPANCY SENSOR
BS	BRANCH SELECTOR	OSD	OCCUPANCY SENSOR DIMMER
C	CONDUIT	P	POLE
CKT	CIRCUIT	PB	PULL BOX
CU	CONDENSING UNIT	PH	PHASE
D	DEDICATED	PNL	PANEL
DIM	DIMMABLE	POS	POINT OF SALE
EC	ELECTRICAL CONTRACTOR	RSC	RIGID STEEL CONDUIT
EF	EXHAUST FAN	SAD	SEE ARCHITECTURAL DRAWINGS
ELEC	ELECTRICAL	SAVD	SEE AUDIO/VISUAL DRAWINGS
EM	EMERGENCY	SCD	SEE CIVIL DRAWINGS
EMT	ELECTRICAL METALLIC TUBING	SLD	SEE LANDSCAPE DRAWINGS
F/I	FURNISH AND INSTALL	SLDG	SINGLE LINE DIAGRAM
FACP	FIRE ALARM CONTROL PANEL	SMD	SEE MECHANICAL DRAWINGS
FATC	FIRE ALARM TERMINAL CAN	SPD	SEE PLUMBING DRAWINGS
FC	FAN COIL	SPEC	SPECIFICATION
FSD	FIRE SMOKE DAMPER	T	TELEPHONE
G	GROUNDING CONDUCTOR	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDERGROUND
GND	GROUND	UAC	UNDER ANOTHER CONTRACT
HP	HORSEPOWER	UON	UNLESS OTHERWISE NOTED
HV	HIGH VOLTAGE	V	VOLT
kVA	KILOVOLT AMPS	VP	VANDAL PROOF
kW	KILOWATTS	VS	VACANCY SENSOR
LC	LOAD CENTER	VSD	VACANCY SENSOR DIMMER
LTG	LIGHTING	W	WATTS
LTS	LIGHTS	WP	WEATHERPROOF (NEMA 3R)
LV	LOW VOLTAGE	WT	WATERTIGHT
MC	MEDIA CABINET	XFMR	TRANSFORMER
MECH	MECHANICAL		

APPLICABLE CODES

1. 2025 BUILDING STANDARD ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
4. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
5. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
6. 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
7. 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
9. 2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
10. 2022 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R.
11. 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
12. TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

NFPA 13, AUTOMATIC SPRINKLER SYSTEM, 2022 EDITION
NFPA 14, STANDPIPE AND HOSE SYSTEMS, 2019 EDITION
NFPA 72, NATIONAL FIRE ALARM CODE, 2022 EDITION
LOCAL MUNICIPAL BUILDING CODES

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FA1.30	ENLARGED FIRE ALARM SITE PLAN - NEW
FA7.10	FIRE ALARM RISER DIAGRAM
FA8.10	FIRE ALARM DETAILS
FA9.10	TECHNICAL SPECIFICATIONS

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GELFAND PARTNERS ARCHITECTS
165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

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Client

Consultants

EDesignC Incorporated
583 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104
(415) 963-4303
312 9TH STREET, SUITE 303
OAKLAND, CA 94607
(415) 963-4303
91 CRESCENT LANE, SUITE 5
PLEASANT HILL, CA 94523
(415) 963-4303

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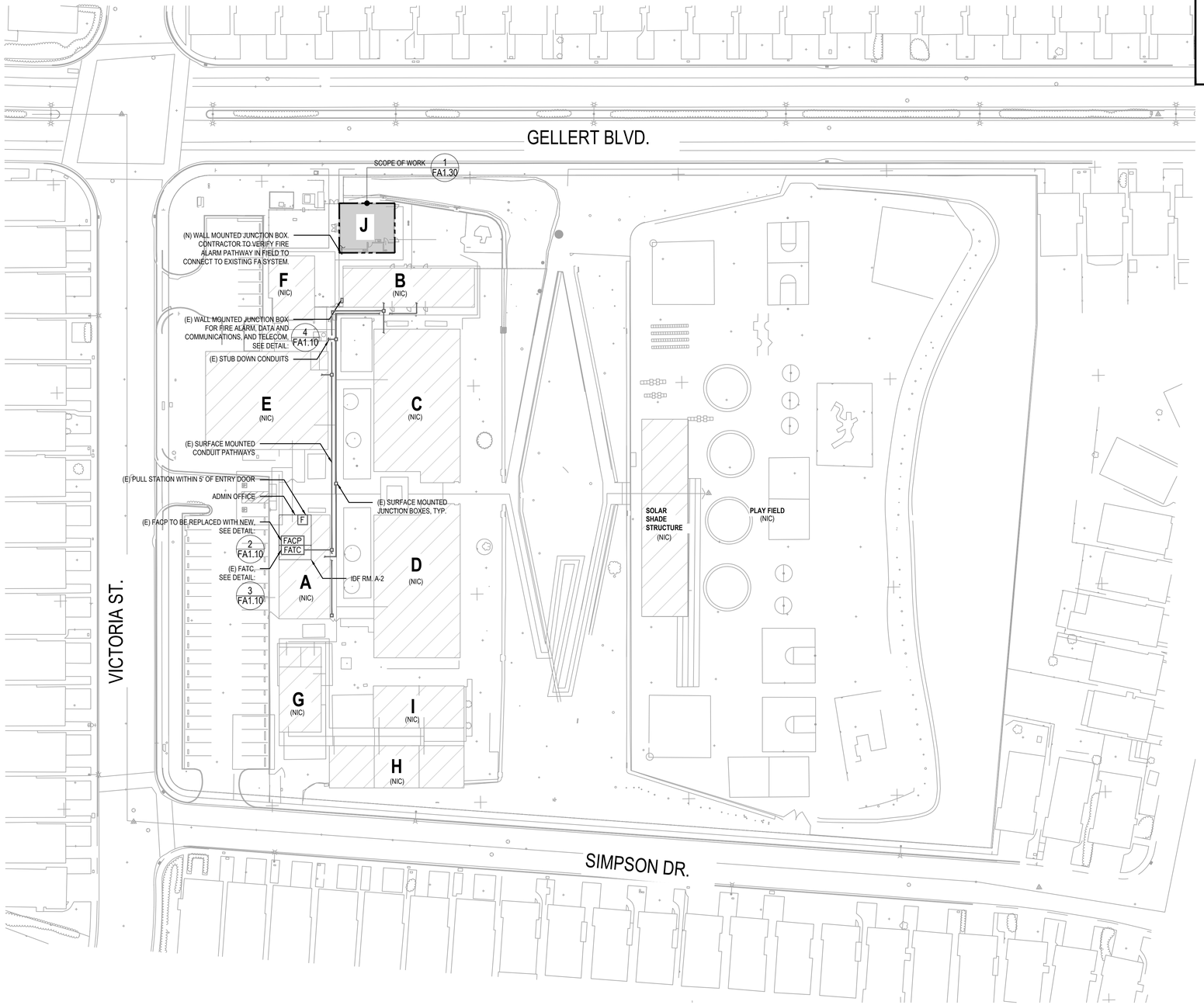
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GENERAL NOTES

A. NOT ALL EXISTING CONDITIONS ARE SHOWN ON PLANS. VERIFY EXISTING CONDITIONS AND LOCATIONS OF FIRE ALARM DEVICES IN AREAS OF WORK PRIOR TO WORK.

B. CONTRACTOR SHALL PROTECT ALL EXISTING DEVICES, EQUIPMENT, AND WIRING TO REMAIN. ANY DAMAGE TO EXISTING SYSTEMS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.



1 FIRE ALARM SITE PLAN

SCALE: 1" = 40'-0"



4 (E) OUTDOOR JBOX

SCALE: NTS



3 (E) FATC AT IDF RM. A-2

SCALE: NTS



2 (E) FACP AT ADMIN OFFICE

SCALE: NTS

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FIRE ALARM SITE PLAN

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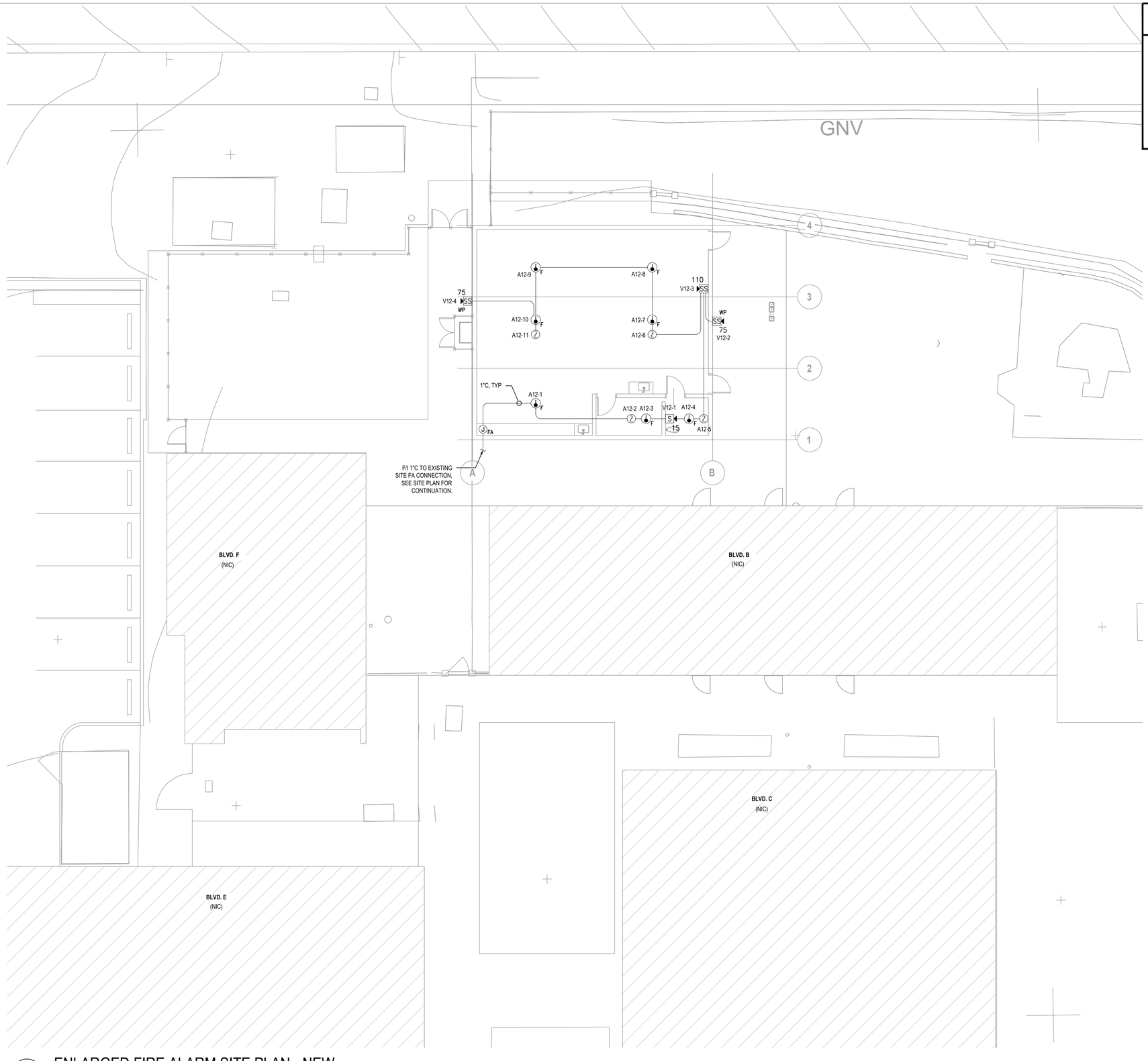
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1 ENLARGED FIRE ALARM SITE PLAN - NEW

SCALE: 1/8" = 1'-0"

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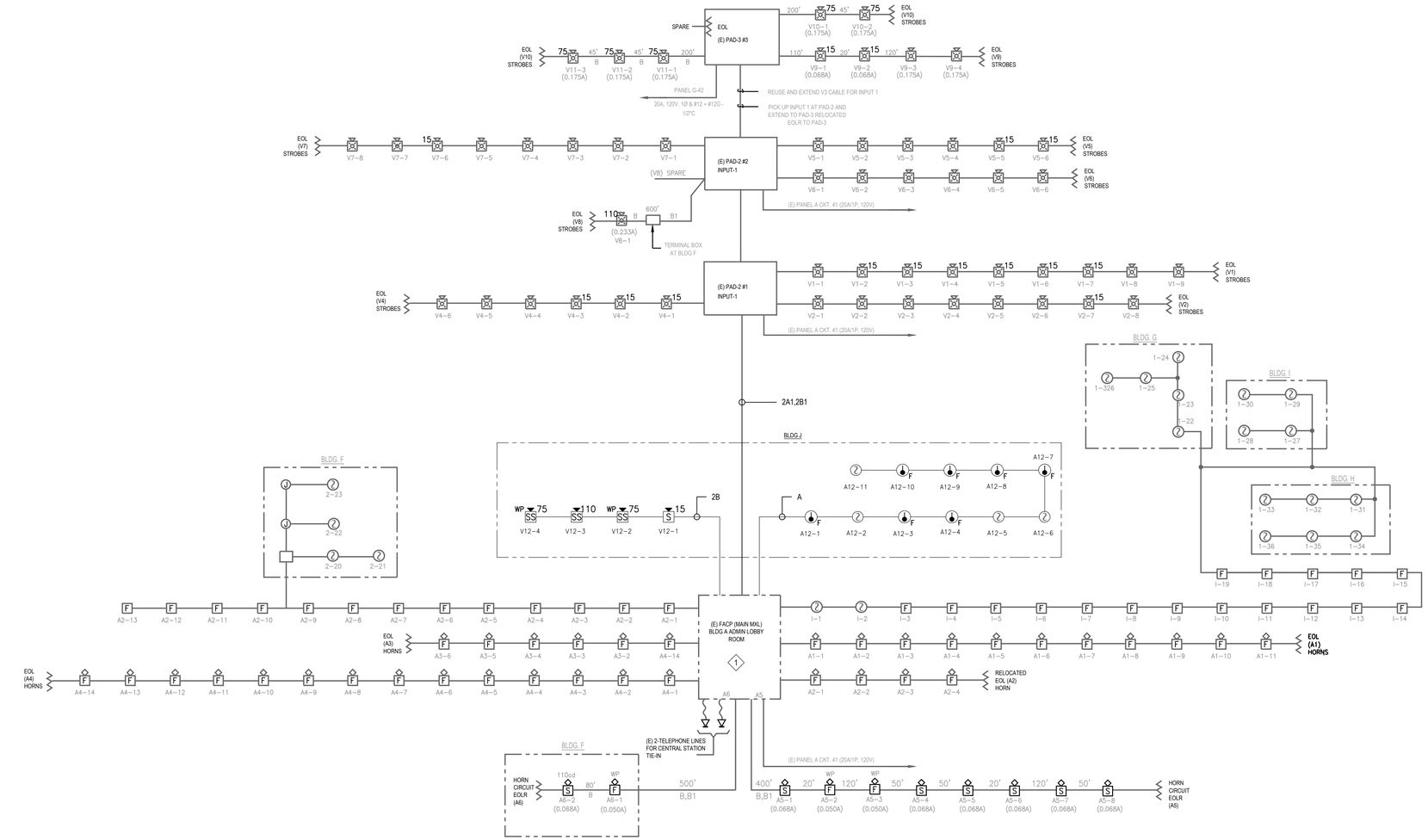
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WIRE LEGEND

INITIATION	A	2#16 TWISTED PAIR FOR INITIATING WEST PENN #D990
	A1	2#16 TWISTED PAIR UNDERGROUND WEST PEN #AQ225
NOTIFICATION	B	2#12 AWG. COPPER FOR SIGNALING OR POWER WEST PENN #AQC-227 OR 2#12 THWN
	B1	2#12 AWG. COPPER UNDERGROUND FOR SIGNALING OR POWER WEST PENN #AQC-227 OR 2#12 THWN

SHEET NOTES ◈

1. (E) FACP TO BE REPLACED WITH NEW TO FEED NEW DEVICES IN BLDG J. CONTRACTOR TO COORDINATE WITH MANUFACTURER.



1 FIRE ALARM RISER DIAGRAM

SCALE: SCHEMATICS

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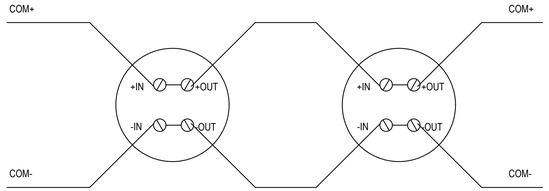
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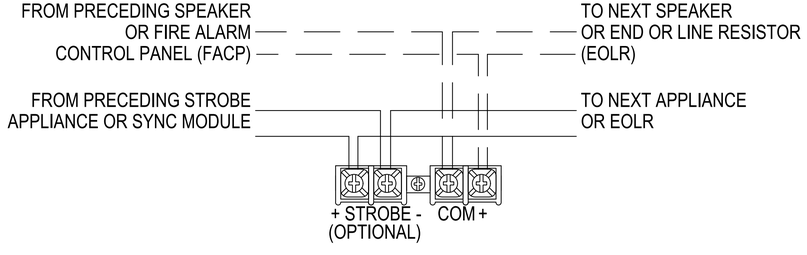
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TYPICAL SMOKE AND HEAT DETECTOR WIRING

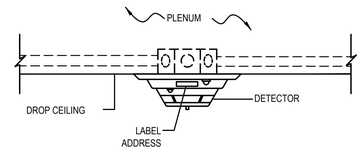
2 TYPICAL WIRING DETAIL

SCALE: SCHEMATIC

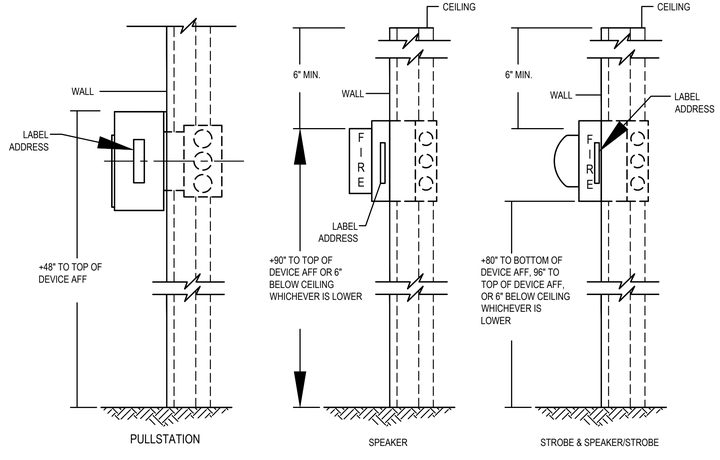


3 TYPICAL WIRING DETAIL - SPEAKER/STROBE, SPEAKER, STROBE

SCALE: SCHEMATIC



DETECTOR INSTALLATION



PULLSTATION INSTALLATION

SIGNALING DEVICE INSTALLATION

1 DEVICE MOUNTING HEIGHTS

SCALE: SCHEMATIC

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APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

GELFAND PARTNERS ARCHITECTS

165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

FILE#
APPL #

Client

Consultants

EDesignC Incorporated
583 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104
(415) 963-4303
312 9TH STREET, SUITE 303
OAKLAND, CA 94607
99 CRESCENT LANE, SUITE 5
PLEASANT HILL, CA 94523
(415) 963-4303

8

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Drawing Record

REV	DESCRIPTION	DATE

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Architect

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HOWARTER
E18568
Exp: 12/31/2026
ELECTRICAL
STATE OF CALIFORNIA

Project
JUNIPERO SERRA
ES MODULAR

151 Victoria St.
Daly City, CA 94015

2516.00

Sheet
FIRE ALARM
DETAILS

FA8.10

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DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

SECTION 284600

FIRE DETECTION AND ALARM

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fire alarm system design and installation, including all components, wiring, and conduit.

B. Replacement and removal of existing fire alarm system components, wiring, and conduit indicated.

1.02 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Evidence of designer qualifications.

C. Evidence of installer qualifications.

D. Evidence of instructor qualifications; training lesson plan outline.

E. Inspection and Test Reports:
1. Submit inspection and test plan prior to closeout demonstration.
2. Submit documentation of satisfactory inspections and tests.
3. Submit NFPA 72 "Inspection and Test Form," filled out.

F. Operating and Maintenance Data: See Section 017800 for additional requirements; revise and resubmit until acceptable; have one set available during closeout demonstration:
1. Complete set of specified design documents, as approved by authority having jurisdiction.
2. Additional printed set of project record documents and closeout documents, bound or filed in same manuals.
3. Contact information for firm that will be providing contract maintenance and trouble call-back service.
4. List of recommended spare parts, tools, and instruments for testing.
5. Replacement parts list with current prices, and source of supply.
6. Detailed troubleshooting guide and large scale input/output matrix.
7. Preventive maintenance, inspection, and testing schedule complying with NFPA 72; provide printed copy and computer format acceptable to Owner.
8. Detailed but easy to read explanation of procedures to be taken by non-technical administrative personnel in the event of system trouble, when routine testing is being conducted, for fire drills, and when entering into contracts for remodeling.

G. Project Record Documents: See Section 017800 for additional requirements; have one set available during closeout demonstration:
1. Complete set of floor plans showing actual installed locations of components, conduit, and zones.
2. "As installed" wiring and schematic diagrams, with final terminal identifications.
3. "As programmed" operating sequences, including control events by device, updated input/output chart, and voice messages by event.

H. Closeout Documents:
1. Certification by manufacturer that the system has been installed in compliance with manufacturer's installation requirements, is complete, and is in satisfactory operating condition.
2. NFPA 72 "Record of Completion", filled out completely and signed by installer and authorized representative of authority having jurisdiction.

I. Maintenance Materials, Tools, and Software: Furnish the following for Owner's use in maintenance of project.
1. Furnish spare parts of same manufacturer and model as those installed; deliver in original packaging, labeled in same manner as in operating and maintenance data and place in spare parts cabinet.

1.03 QUALITY ASSURANCE

A. Copies of Design Criteria Documents: Maintain at the project site for the duration of the project, bound together, an original copy of NFPA 72, the relevant portions of applicable codes, and instructions and guidelines of authorities having jurisdiction; deliver to Owner upon completion.

B. Installer Qualifications: Firm with minimum 3 years documented experience installing fire alarm systems of the specified type and providing contract maintenance service as a regular part of their business.
1. Authorized representative of control unit manufacturer; submit manufacturer's certification that installer is authorized; include name and title of manufacturer's representative making certification.
2. Installer Personnel: At least 2 years of experience installing fire alarm systems.
3. Supervisor: NICET level III or IV (3 or 4) certified fire alarm technician; furnish name and address.

C. Instructor Qualifications: Experienced in technical instruction, understanding fire alarm theory, and able to provide the required training; trained by fire alarm control unit manufacturer.

1.04 WARRANTY

A. Provide control panel manufacturer's warranty that system components other than wire and conduit are free from defects and will remain so for 1 year after date of Substantial Completion.

B. Provide installer's warranty that the installation is free from defects and will remain so for 1 year after date of Substantial Completion.

PART 2 PRODUCTS

2.01 FIRE ALARM SYSTEM

A. Fire Alarm System: Provide a new automatic fire detection and alarm system:
1. Provide all components necessary, regardless of whether shown in Contract Documents or not.
2. Protected Premises: Entire building shown on drawings.
3. Comply with the following; where requirements conflict, order of precedence of requirements is as listed:
   a. ADA Standards.
   b. Applicable local codes.
   c. Contract Documents (drawings and specifications).
   d. NFPA 72; where the word "should" is used consider that provision mandatory; where conflicts between requirements require deviation from NFPA 72, identify deviations clearly on design documents.
4. Evacuation Alarm: Multiple smoke zones; allow for evacuation notification of any individual zone or combination of zones, in addition to general evacuation of entire premises.
5. Voice Notification: Provide emergency voice/alarm communications with multichannel capability; digital.
6. General Evacuation Zones: Each smoke zone is considered a general evacuation zone unless otherwise indicated, with alarm notification in all zones on the same floor, on the floor above, and the floor below.
7. Program notification zones and voice messages as directed by Owner.
8. Hearing Impaired Occupants: Provide visible notification devices in all public areas.
9. Fire Alarm Control Unit: Existing, located at Main Office.

B. Circuits:
1. Initiating Device Circuits (IDC): Class B, Style A.
2. Signaling Line Circuits (SLC) Within Single Building: Class B, Style 0.5.
3. Notification Appliance Circuits (NAC): Class B, Style W.

C. Power Sources:
1. Primary: Dedicated branch circuits of the facility power distribution system.
2. Secondary: Storage batteries.
3. Capacity: Sufficient to operate entire system for period specified by NFPA 72.
4. Each Computer System: Provide uninterruptible power supply (UPS).

2.02 EXISTING COMPONENTS

A. Existing Fire Alarm System: Remove existing components indicated and incorporate remaining components into new system, under warranty as if they were new; do not take existing portions of system out of service until new portions are fully operational, tested, and connected to existing system.

B. Clearly label components that are "Not In Service."

C. Remove unused existing components and materials from site and dispose of properly.

2.03 COMPONENTS

A. General:
1. Provide flush mounted units where installed in finish areas; in unfinished areas, surface mounted unit are acceptable.
2. Provide legible, permanent labels for each control device, using identification used in operation and maintenance data.

B. Fire Alarm Control Units: Analog, addressable type; listed, classified, and labeled as suitable for the purpose intended.

C. Addressable Fire Alarm Control Unit - Basis of Design: Siemens.

D. Existing Master Control Unit: Siemens.

E. Initiating Devices:
1. Addressable Systems:
   a. Addressable Devices: Individually identifiable by addressable fire alarm control unit.
   b. Provide suitable addressable interface modules as indicated or as required for connection to conventional (non-addressable) devices and other components that provide a dry closure output.
2. Smoke Detectors:
   a. Provide 2 extra.
3. Heat Detectors:
   a. Provide 2 extra.

F. Notification Appliances:
1. Speakers:
   a. Provide 1 extra.
2. Strobes:
   a. Provide 1 extra.

G. Circuit Conductors: Copper; provide 200 feet (60 m) extra; color code and label.

H. Surge Protection: In accordance with IEEE C62.41.2 category B combination waveform and NFPA 70; except for optical fiber conductors.

I. Locks and Keys: Deliver keys to Owner.

J. Instruction Charts: Printed instruction chart for operators, showing steps to be taken when a signal is received (normal, alarm, supervisory, and trouble); easily readable from normal operator's station.
1. Frame: Stainless steel or aluminum with polycarbonate or glass cover.
2. Provide one for each control unit where operations are to be performed.
3. Obtain approval of Owner prior to mounting; mount in location acceptable to Owner.
4. Provide extra copy with operation and maintenance data submittal.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with applicable codes, NFPA 72, NFPA 70, and Contract Documents.

B. Conceal all wiring, conduit, boxes, and supports where installed in finished areas.

C. Obtain Owner's approval of locations of devices, before installation.

D. Install instruction cards and labels.

3.02 INSPECTION AND TESTING FOR COMPLETION

A. Notify Owner 7 days prior to beginning completion inspections and tests.

B. Notify authorities having jurisdiction and comply with their requirements for scheduling inspections and tests and for observation by their personnel.

C. Provide the services of the installer's supervisor or person with equivalent qualifications to supervise inspection and testing, correction, and adjustments.

D. Prepare for testing by ensuring that all work is complete and correct; perform preliminary tests as required.

E. Provide all tools, software, and supplies required to accomplish inspection and testing.

F. Perform inspection and testing in accordance with NFPA 72 and requirements of local authorities; document each inspection and test.

G. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

3.03 OWNER PERSONNEL INSTRUCTION

A. Provide the following instruction to designated Owner personnel:
1. Hands-On Instruction: On-site, using operational system.
2. Classroom Instruction: Owner furnished classroom, on-site or at other local facility.

B. Administrative: One-hour session(s) covering issues necessary for non-technical administrative staff; classroom:
1. Initial Training: 1 session pre-closeout.

C. Basic Operation: One-hour sessions for attendant personnel, security officers, and engineering staff; combination of classroom and hands-on:
1. Initial Training: 1 session pre-closeout.

D. Furnish the services of instructors and teaching aids; have copies of operation and maintenance data available during instruction.

3.04 CLOSEOUT

A. Closeout Demonstration: Demonstrate proper operation of all functions to Owner.
1. Be prepared to conduct any of the required tests.
2. Have at least one copy of operation and maintenance data, preliminary copy of project record drawings, input/output matrix, and operator instruction chart(s) available during demonstration.
3. Have authorized technical representative of control unit manufacturer present during demonstration.
4. Demonstration may be combined with inspection and testing required by authority having jurisdiction; notify authority having jurisdiction in time to schedule demonstration.
5. Repeat demonstration until successful.

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GELFAND PARTNERS ARCHITECTS

165 10th Street, Suite 100
San Francisco, CA 94103
415.346.4040 | www.gelfand-partners.com

FILE#
APPL #

Client

Consultants

EDesignC Incorporated
583 MARKET STREET, SUITE 400
SAN FRANCISCO, CA 94104
(415) 963-4303
312 9TH STREET, SUITE 303
OAKLAND, CA 94607
(415) 963-4303
91 CRESCENT LANE, SUITE 5
PLEASANT HILL, CA 94523
(415) 963-4303

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Drawing Record

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Architect



Project
JUNIPERO SERRA
ES MODULAR

151 Victoria St.
Daly City, CA 94015

2516.00

Sheet
TECHNICAL
SPECIFICATIONS

FA9.10

Autodesk Docs://Junipero Serra ES Modular/2516.00 Junipero Serra ES Modular.rvt

MODULAR CLASSROOM BUILDING
BUILDING SIZE: 36' x 40'
(BASED ON PC 04-121999)

BY SILVER CREEK MODULAR LLC
2830 BARRET AVE. PERRIS, CA 92571

SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT
JUNIPERO SERRA ELEMENTARY SCHOOL
TK-CLASSROOM
151 VICTORIA ST.
DALY CITY, CA 94015
PROJECT NO. 11656

GENERAL NOTES
REFER TO SHEET A-0 OF THE PC FOR SPECIFIC INFORMATION

BUILDING DATA
REFER TO SHEET A-0 OF THE PC FOR SPECIFIC INFORMATION

REFER TO SHEET A-0 OF THE PC FOR SPECIFIC INFORMATION

APPLICABLE STANDARDS
REFER TO SHEET A-0 OF THE PC FOR SPECIFIC INFORMATION

APPLICABLE CODES
REFER TO SHEET A-0 OF THE PC FOR SPECIFIC INFORMATION

SHEET INDEX - PROJECT SPECIFIC

SHEET	ARCHITECTURAL
A-0N	COVER SHEET
A-0.2N	SCHEDULES
A-0.54N	ENERGY CALCULATIONS
A-0.55N	ENERGY CALCULATIONS
A-1.02N	FLOOR PLAN
A-2.02N	REFLECTED CEILING PLAN
A-3.02N	ROOF PLAN
A-4.02N	EXTERIOR ELEVATIONS
A-6.02N	INTERIOR ELEVATIONS
F-2.11N	CONCRETE FOUNDATION PLAN
M-1.02N	MECHANICAL PLAN
E-1.02N	ELECTRICAL PLAN

PC SHEET INDEX

SHEET	ARCHITECTURAL
A-0	COVER SHEET
A-0A	T & I FORMS
A-0.1	SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE
A-0.2	SCHEDULES
A-0.3	TYPICAL KEY PLANS - 36' x 40'
A-0.51	DESIGN ENERGY VALUES - CONC FLOOR - ROOF HVAC
A-0.57	PRF FORMS - ZONE 36x40 - 14 WORST CASE
A-0.58	PRF FORMS - ZONE 36x40 - 15 WORST CASE
A-0.59	PRF FORMS - ZONE 36x40 - 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 REQ'S. ENERGY MANDATORY MEASURES & CAL GREEN SPEC'S
A-1.02	FLOOR PLAN - 36' x 40'
A-2.02	REFLECTED CEILING PLAN - 36' x 40'
A-2.20	CEILING DETAILS - T-GRID
A-2.21	CEILING DETAILS - HARD LID
A-3.02	ROOF PLAN - 36' x 40' - METAL DECK - MONO SLOPE
A-3.50	ROOF DETAILS - STANDING SEAM ROOF DECK
A-3.80	ROOF DETAILS PARAPET
A-4.02	EXTERIOR ELEVATIONS - 36' x 40' - SINGLE SLOPE
A-5.01	CROSS SECT. - DUAL SLOPE
A-5.05	CROSS SECTION
A-5.51	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER
A-5.53	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER - 1 HOUR RATED
A-5.70	ARCHITECTURAL DETAILS - FLOOR
A-5.72	DETERIORATION PROTECTION STUCCO FINISH W/ CONC FLOOR - WD STUDS
A-5.80	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-5.81	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-6.02	INTERIOR ELEVATIONS - 36' x 40'

SHEET	FOUNDATION
F-2.11	CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETE FLOOR
F-2.50	CONCRETE FOUNDATION DETAILS - BELOW GRADE
F-2.51	FOUNDATION DETAILS - CONCRETE

SHEET	STRUCTURAL
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S-1.11	FLOOR FRAMING PLAN - CONCRETE FLOOR
S-1.60	FLOOR FRAMING DETAIL - CONCRETE FLOOR
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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

SHEET	PLUMBING
P-1.01	PLUMBING DETAILS AND SCHEDULE

SHEET	MECHANICAL
M-0.1	MECHANICAL NOTES, SCHEDULES, AND DETAILS
M-1.02	MECHANICAL PLAN - WALL MOUNT - 36' x 40'

SHEET	ELECTRICAL
E-1.02	ELECTRICAL PLAN AND SCHEDULE - 36' x 40'

TOTAL SHEETS 60

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PROJECT NAME:
S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:
COVER SHEET

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

MODULAR STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

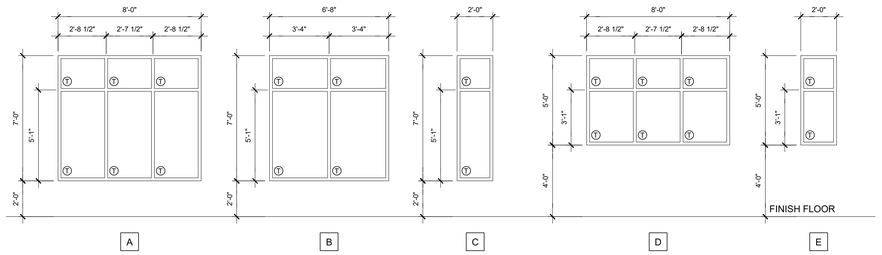
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SILVER CREEK INDUSTRIES

JOB #: 11657
DRAWN BY: MR
SCALE: AS NOTED
DATE: 10/18/2025

SHEET NUMBER
A-0N

WINDOW TYPES



WINDOW SCHEDULE

WINDOW TYPE	SIZE WIDTH	SIZE HEIGHT	FRAME MAT.	OPERABLE	MAX U-FACTOR	REQUIRED SHGC	MIN VT	NFRC RATED	GLASS SPECS	NOTES
A	8'-0"	7'-0"	ANOD	NO	0.29	0.35	0.70	YES	DP	
B	6-8"	7'-0"	ANOD	NO	0.29	0.35	0.70	YES	DP	
C	2'-0"	7'-0"	ANOD	NO	0.29	0.35	0.70	YES	DP	
D	8'-0"	5'-0"	ANOD	NO	0.29	0.35	0.70	YES	DP	
E	2'-0"	5'-0"	ANOD	NO	0.29	0.35	0.70	YES	DP	

WINDOW FINISH

ANOD: CLEAR ANODIZED ALUMINUM STOREFRONT FRAME

DP: INSULATED GLASS UNIT, 3/16" (MIN) SOLARBAN 62 (2) CLEAR OVER 3/16" (MIN) CLEAR

T: TEMPERED GLASS

NOTES:
1. INDICATED U, SHGC + VT VALUES ARE CENTER OF GLASS
2. TEMPORARY NFRC LABELS SHALL STAY ON WINDOWS UNTIL PROJECT INSPECTOR HAS VERIFIED INSTALLED FENESTRATION MATCHES WINDOW SCHEDULE ON PLAN.

DOOR SCHEDULE

DOOR NO	WIDTH	HEIGHT	DOOR TYPE	DOOR MAT/FIN	FRAME MAT/FIN	HARDWARE SET	LOCKABLE FROM INT.	NOTES*
1	3'-0"	7'-0"	A	AL/DP	AL	HW - 1	YES	
2	3'-0"	7'-0"	B	AL/DP	AL	HW - 1	YES	
3	3'-0"	7'-0"	C	SCB	KD	HW - 3	NO	
4	3'-0"	7'-0"	C	SCB	KD	HW - 2	NO	

DOOR MATERIAL AND FINISH ABBREVIATIONS

AL: ALUMINUM STOREFRONT

DP: INSULATED GLASS UNIT, 3/16" (MIN) SOLARBAN 62 (2) CLEAR OVER 3/16" (MIN) CLEAR

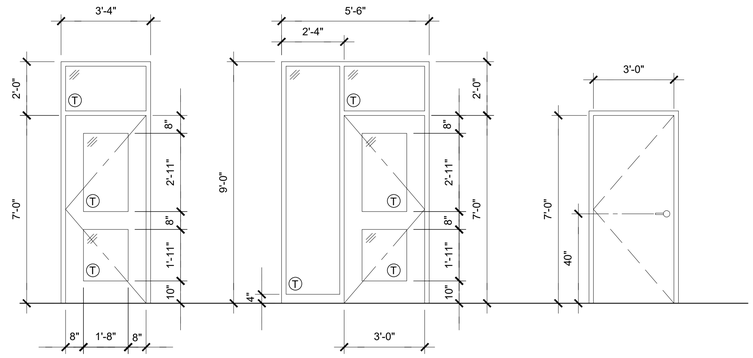
T: TEMPERED GLASS

KD: KNOCK DOWN FRAME

SCB: SOLID CORE WOOD BIRCH

DOOR TYPES & NOTES

1. DOOR HANDLE FOR LOCK SETS AND PANIC HARDWARE TO BE CENTERED AT 40" AFF
2. ALL EXIT DOORS TO BE OPENABLE FROM THE INSIDE WITHOUT THE USE ANY SPECIAL TOOLS, 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 AND WILL OPERATE WITH W/ 5 LBS OR LESS FORCE.
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
TK-CLASSROOM 101	LVT	4" TS	TACK	TACK	TACK	TACK	CP	9'-0"	
STORAGE 102	LVT	4" TS	TACK	TACK	TACK	TACK	CP	9'-0"	
TK-RESTROOM 103	EPX	6" EPX	COR	COR	COR	COR	GPB	9'-0"	

FLOOR, WALL, CEILING MATERIALS

FLOORING
- LVT: ALLURA DECIBEL 0.8 AD8 LVT FLOORING
- EPX: DEX-O TEX EPOXY FLOORING

BASE
- 4" TS: 4" TOP SET BASE
- EPX: DEX-O TEX EPOXY, CONTINUE FLOORING 6" UP THE WALL

WALLS
- TACK: 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYPSUM BOARD BACKING OR RIGID INSULATION W/ ADHESIVE
- COR: CORIAN SOLID SURFACE OVER 1/2" WATER RESISTANT GYPSUM BOARD

CEILING
- CP: ARMSTRONG ULTIMA 1938 SQUARE LAY-IN 3/4" THICK, 2X4 ACOUSTICAL LAY IN GRID CEILING PANELS
- GBP: 1/2" GYPSUM BOARD WASHABLE PANELS (PAINTED)

DOOR HARDWARE

CLASSROOM DOOR - EXTERIOR DOOR HW-1

HINGE	224XY 83"	ALUM	IVE
EXIT DEVICE	AX-PA CDSI 99EO X 110MD-NL 425-SNB	626	VON
CORE	20-079	626	SCH
MORTISE HOUSING	26-094	626	SCH
CORE	23-030 C12223 1-BITTED	626	SCH
CONTROL KEY	1-BITTED		
PULL	VR910NL	630	IVES
CLOSER	4040XP EDA	ALUM	LCN
THRESHOLD	NEED	ALUM	PEM
DOOR BOTTOM	NEED		PEM
SEAL			PEM
STOP	1209	630	TRIM

WORK ROOM - INTERIOR DOOR HW-2

LOCKSET	L9071R 03A L283-711	626	SCH
HINGES	5BB1HW 4 1/2" x 4 1/2"	652	IVES
CLOSER	1250	626	LCN
STOP	FS439	630	IVES

REST ROOM - INTERIOR DOOR HW-3

LOCKSET	L9010 03A L283-711	626	SCH
HINGES	5BB1HW 4 1/2" x 4 1/2"	652	IVES
CLOSER	1250	626	LCN
KICK PLATE	8400 10"x2" LDW B-CS	630	IVES
STOP	FS439	630	IVES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

SCHEDULES

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

MODULAR STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

REVISIONS
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SILVER CREEK INDUSTRIES

JOB #: 11657
DRAWN BY: MR
SCALE: AS NOTED
DATE: 10/18/2025

SHEET NUMBER

A-0.2N

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 1 of 19)

Project Name: SSFUSD - JUNIPERO SERRA **Date Prepared:** 2025-11-14

A. General Information

1	Project Name	SSFUSD - JUNIPERO SERRA			
2	Run Title				
3	Project Location	- specify -			
4	City	- specify -	5	Standards Version	Compliance 2022
6	Zip code	94080	7	Compliance Software (version)	CBECC 2022.2.1 SP1 (1298)
8	Climate Zone	3	9	Building Orientation (deg)	90
10	Building Type(s)	• Relocable Public School Building for use in all climate zones Occupancy: E	11	Weather File	OAKLAND-INTL_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	1440	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	None
18	Nonresidential Conditioned Floor Area	1440	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 2 of 19)

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 J)	☐	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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 3 of 19)

C1. COMPLIANCE SUMMARY

COMPLIES[1]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	202.54	202.54	18.06
Proposed Design	163.83	163.83	13.97
Compliance Margins	**38.71**	**38.71**	**4.09**
	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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 4 of 19)

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	19.95	23.52	-3.57
Space Cooling	25.27	27.59	-2.32
Indoor Fans	125.38	89.77	35.61
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	31.94	22.95	8.99
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**202.54**	**163.83**	**38.71 (19.1%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**202.54**	**163.83**	**38.71 (19.1%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 5 of 19)

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	60.45	60.45	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**262.99**	**224.28**	**38.71 (14.7%)**

[1] Notes: This table is not used for Energy Code Compliance.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 6 of 19)

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	2.85	3.3	-0.45
Space Cooling	0.5	0.5	0
Indoor Fans	12.17	8.35	3.82
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	2.54	1.82	0.72
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**18.06**	**13.97**	**4.09 (22.6%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**18.06**	**13.97**	**4.09 (22.6%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 8 of 19)

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	0.9	1.1	-0.2	---	---	---
Space Cooling	0.7	0.6	0.1	---	---	---
Indoor Fans	6.3	4.5	1.8	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	---	---	---
Indoor Lighting	1.7	1.3	0.4	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**9.6**	**7.5**	**2.1**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**9.6**	**7.5**	**2.1**	**0**	**0**	**0**
Receptacle	3.5	3.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**13.1**	**11**	**2.1**	**0**	**0**	**0**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 9 of 19)

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	31.04	26.06	4.98	16.04
NET EUI[1]	31.04	26.06	4.98	16.04

[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.

D1. 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.

G1. 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]	460	61	13.26
East-Facing[2]	432	86	19.91
South-Facing[3]	460	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),

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 10 of 19)

G1. 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]	396	100	25.25
Total	**1748**	**247**	**14.13**
Roof	1440	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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 11 of 19)

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	**Construction Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**		**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
					Interior	**Exterior**				
2x6 T111 WALL	Exterior Wall	1,748	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 R-19 16 OC Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
SCI MTL ROOF	Roof	1,440	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	1,440	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	42	1.45	N

[1] Status: N - New, A - Altered, E - Existing

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ENERGY CALCULATIONS

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

MODULAR STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER JOHN N STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

REVISIONS

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SILVER CREEK INDUSTRIES

JOB #:	11657
DRAWN BY:	MR
SCALE:	AS NOTED
DATE:	10/18/2025

SHEET NUMBER

A-0.54N

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 (ft^2)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
NFRC #INT-A-73-00213-00011	Vertical fenestration Operable window N/A	NFRC	Site built	247	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. DRY 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 Package VHP Air System	1	52.5	0	COP	3.3	54.5	EER	11	Fixed DB	N

[1] Status: N - New, A - Altered, E - Existing

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	505.19	1,750	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status[1]
Ex	ThermalZone 101	1	100	0.08	BHP	No	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(n)[1]	Other Special Features and Controls
AirSystem 101	Single Package VHP 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
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
ThermalZone 101	Education - Classrooms (ages 5-8) Exhaust - Toilets, public Misc - All others	32.91	505.19	100	1440	DCV

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtuh)		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] (ft^2)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	1300	510	0	0	0
Restroom	63	51	0	0	0
GeneralStorage	77	51	0	0	0
Building Totals:	**1440**	**612**	**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/ft^2 in offices)

01	02	03	04	05	06
		Installed Watts (Conditioned)			
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, FS278, one dimmable electronic ballast)	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
SCI - 2x4 LED	---	51	According to 130.0(c)	12	612

[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	6	306	0
Classroom 101	Classroom, Lecture, or Training Vocational	N/A	N/A	SCI - 2x4 LED	51	4	204	0
Restroom	Restroom	N/A	N/A	SCI - 2x4 LED	51	1	51	0
Storage	GeneralStorage	N/A	N/A	SCI - 2x4 LED	51	1	51	0
						Lighting Control Credits (Conditioned) Total (Watts)		0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

L. 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 (CO_2) 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
Mechanical	NRCV-MCH-32 Local Mechanical Exhaust

Documentation Author's Declaration Statement

1. 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 approval with 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

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCI Inc SHALL BE THE PROPERTY OF SCI Inc

PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ENERGY CALCULATIONS

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

MODULAR STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 2475 STRUCTURAL STATE OF CALIFORNIA

REVISIONS

1	
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SILVER CREEK INDUSTRIES

JOB #:	11657
DRAWN BY:	MR
SCALE:	AS NOTED
DATE:	10/18/2025

SHEET NUMBER

A-0.55N

PLUMBING FIXTURE SCHEDULE

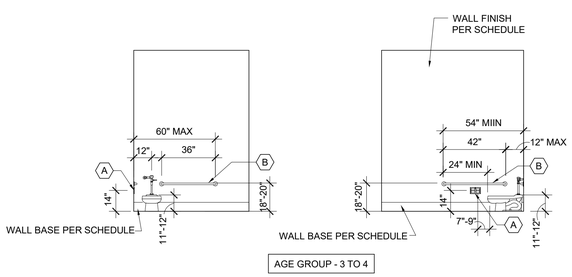
SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL)
WC 1	[3 TO 4] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	AMERICAN STANDARD BABY DEVORO 2282.010 VITREOUS CHINA ELONGATED RIM, 10" ROUGH-IN LOW CONSUMPTION CLOSET BOWL; OLSONITE 126CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSH VALVE
LAV 1	[3 TO 4] LAVATORY (ACCESSIBLE)	1/2"	-	2"	1 1/2"	ELKAY DRKAD2517C, WITH CHICAGO FAUCET #1100 SERIES
CS 1	CLASSROOM SINK	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD - LUCERNE 0356.421 17"x25" w/ 4 1/2" BOWL DEPTH, WITH CHICAGO FAUCET #1100 SERIES
WH 1	INSTANT WATER HEATER	1/2"	1/2"	-	-	EEMAX #SPEX3012T, 120V, 3.0 KW, 25A
DF 1	DRINKING FOUNTAIN W/ BOTTLE FILLER	1/2"	-	2"	1 1/2"	HAWS 1119 BI-LEVEL DRINKING FOUNTAIN WITH HAWS 1120 BOTTLE FILLER. PROVIDE STAINLESS STEEL BACKING

NOTES

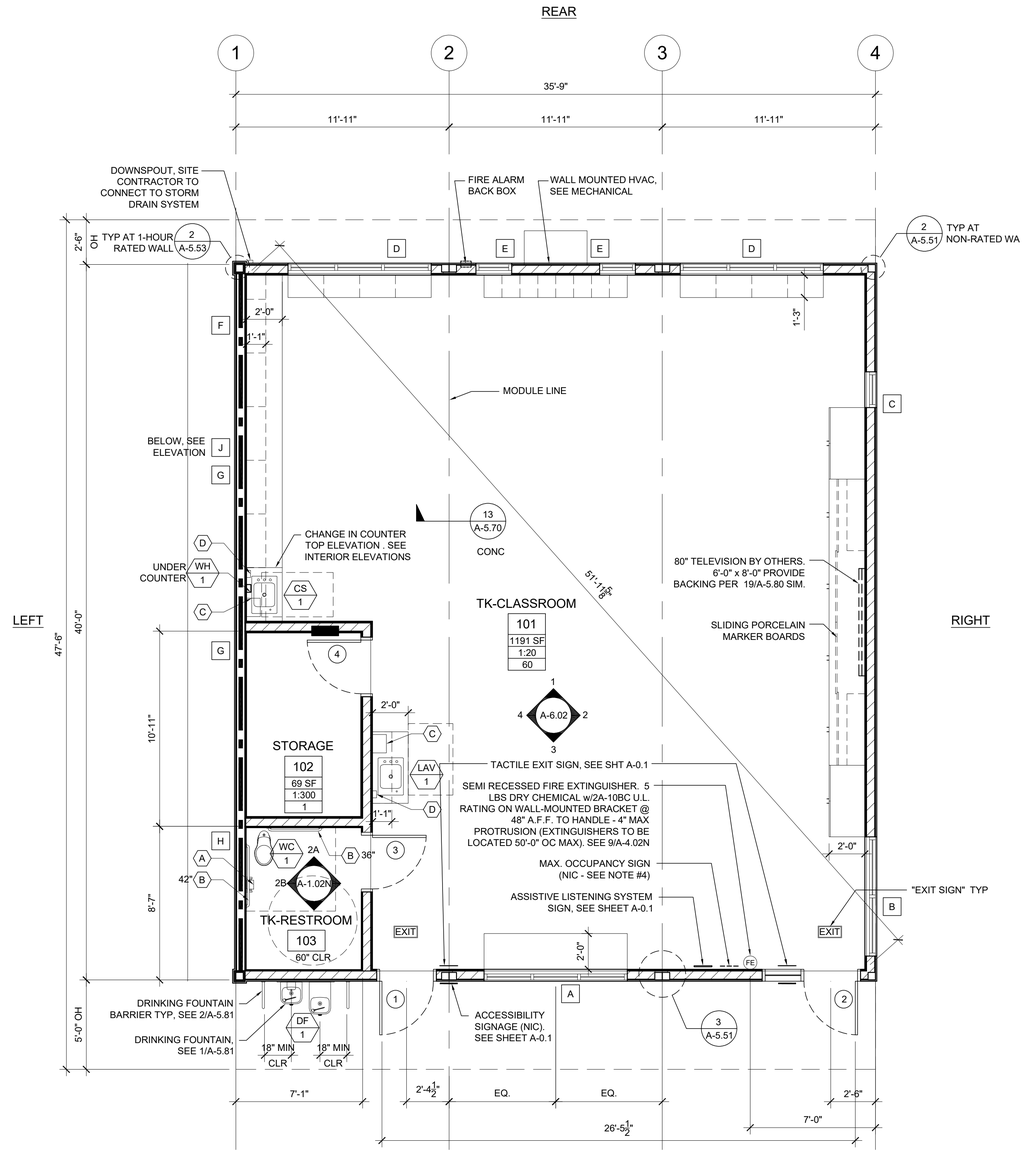
1. SEE SHEET P-1.01 FOR TYPICAL FIXTURE AND ACCESSORY MOUNTING DIMENSIONS AND CLEARANCES.
2. SCI TO PROVIDE BACKING AND ANCHORAGE FOR ALL ITEMS.
3. (OFCI) OWNER FURNISHED CONTRACTOR INSTALLED. (NOT BY SILVER CREEK MODULAR).
4. ALL TOLIET FIXTURE EQUIPMENT / DEVICES SHALL HAVE A 4" MAX. PROTRUSION FROM THE WALL FINISH.

(X) RESTROOM ACCESSORIES

TAG	ACCESSORY	MAKE	MODEL #	DESCRIPTION
A	TOILET PAPER DISPENSER	BOBRICK	B-35883	RECESSED MOUNTED, MULTI-ROLL, TOILET PAPER DISPENSER
B	GRAB BAR	BOBRICK	B-6806	36" AND 42" LENGTH, STAINLESS STEEL GRAB BAR
C	PAPER TOWEL DISPENSER	HILLYARD	PAP430190	ELECTRONIC PAPER TOWEL DISPENSER
D	SOAP DISPENSER	-	-	OFOI



RESTROOM ELEVATIONS — SCALE: 1/4" = 1'-0" — 2



FRONT — SCALE: 1/4" = 1'-0" — 1

SEE EQUIVALENT PC SHEET A-1.02 FOR NOTES, WALL & SYMBOL LEGENDS

SYMBOL LEGEND

- NOMINAL 6" STUD WALL . STUDS @ 16" OC
- 1-HOUR RATED, NOMINAL 6" STUD WALL . STUDS @ 16" OC. SEE SHEET 20/A-5.53
- [A] WINDOW PER SCHEDULE SHEET A-0.2N
- (#) DOOR PER SCHEDULE SHEET A-0.2N
- (X) RESTROOM ACCESSORY TAG
- (XX / #) PLUMBING FIXTURE TAG

ROOM NAME

RM #	ROOM NUMBER
# SF	ROOM AREA
1:20	OCCUPANT LOAD FACTOR
60	# OF OCCUPANTS

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

FLOOR PLAN

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

MODULAR STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

REVISIONS

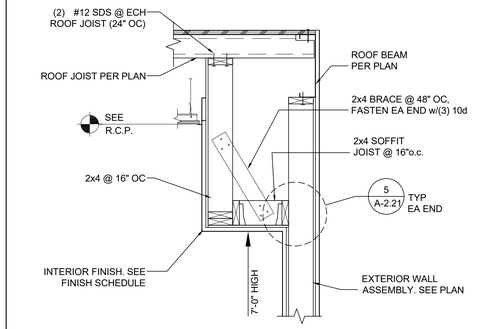
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SILVER CREEK INDUSTRIES

JOB #:	11657
DRAWN BY:	MR
SCALE:	AS NOTED
DATE:	10/18/2025

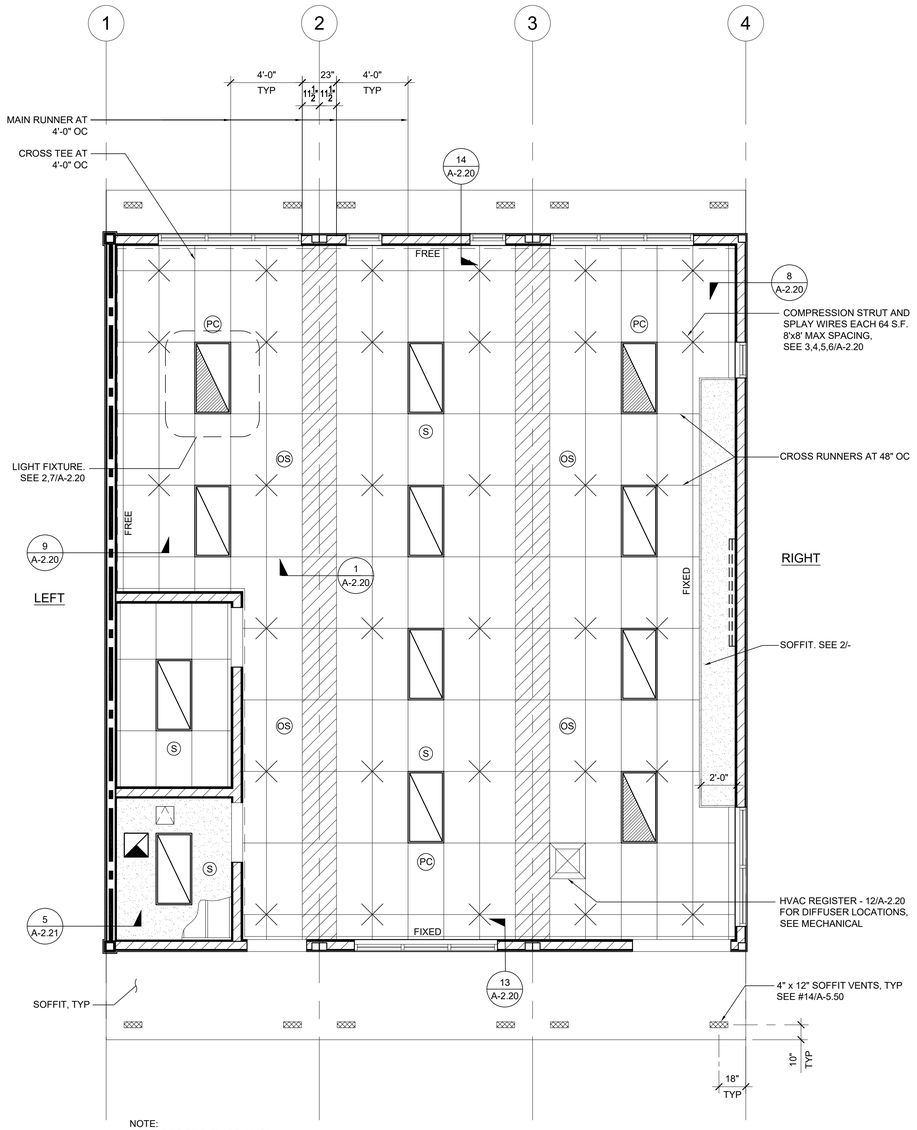
SHEET NUMBER

A-1.02N



INTERIOR SOFFIT DETAIL — SCALE: 1/4" = 1' - 0" | 2

REAR



NOTE:
CEILING TO BE 8'-6" AFF (UNO)

FRONT

SEE EQUIVALENT PC SHEET A-2.02 FOR NOTES & SYMBOL LEGENDS

REFLECTED CEILING PLAN — SCALE: 1/4" = 1' - 0" | 1

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

REFLECTED CEILING PLAN

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

MODULAR STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

REVISIONS

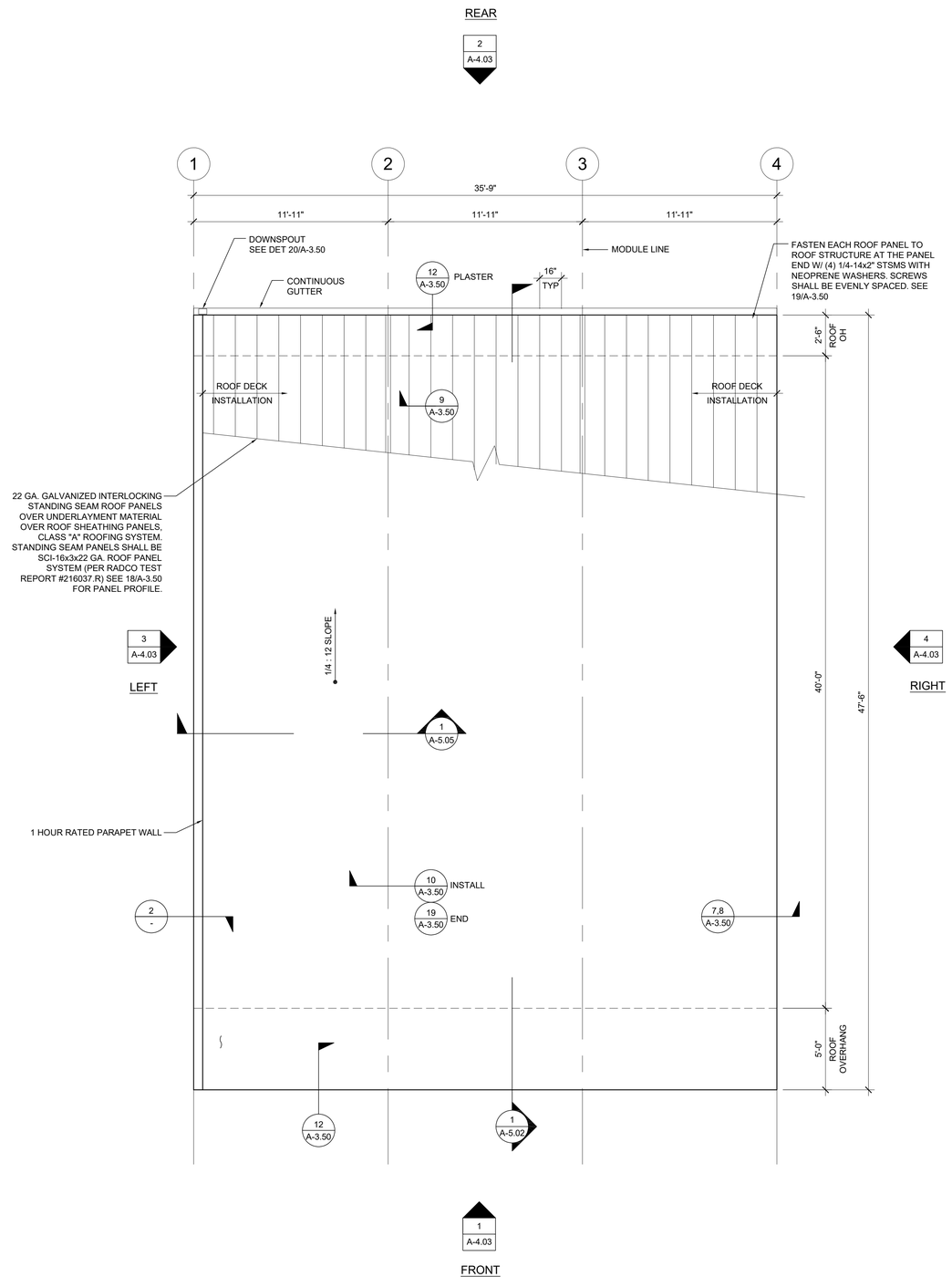
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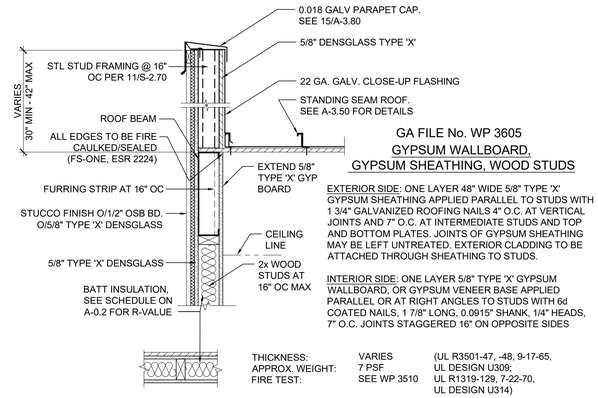
SILVER CREEK INDUSTRIES

JOB #:	11657
DRAWN BY:	MR
SCALE:	AS NOTED
DATE:	10/18/2025

SHEET NUMBER

A-2.02N





1-HOUR PARAPET DESIGN #WP3605 (STUCCO) SCALE: N.T.S. 2

(INCLUDES 1-HOUR RATED WALL UNDER PARAPET
WITH SAME UL LISTING)

SEE EQUIVALENT PC
SHEET A-3.02 FOR
NOTES & SYMBOL
LEGENDS

ROOF PLAN SCALE: 1/4" = 1' - 0" 1

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ROOF PLAN

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

MODULAR STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

REVISIONS

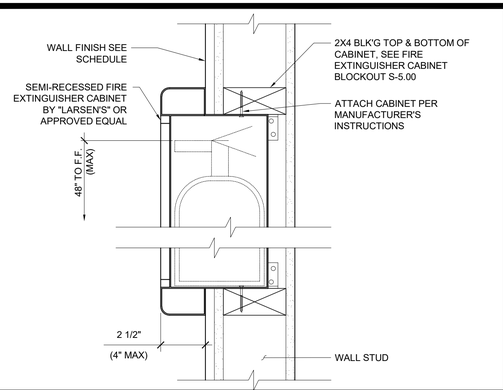
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SILVER CREEK INDUSTRIES

JOB #:	11657
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DATE:	10/18/2025

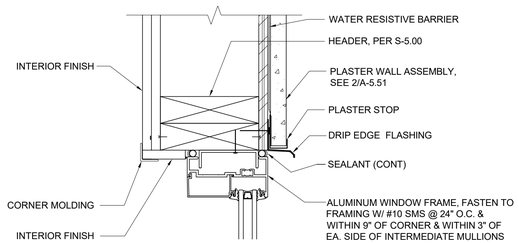
SHEET NUMBER

A-3.02N



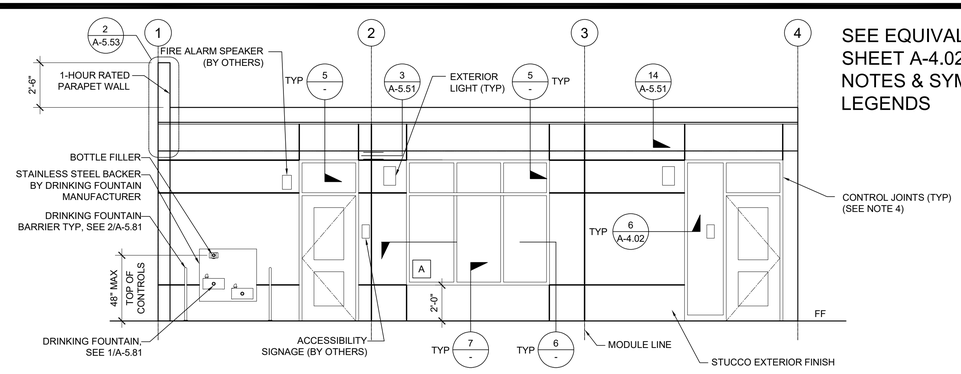
RECESSED FIRE EXTINGUISHER CABINET

SCALE: 3" = 1' - 0" | 9



STOREFRONT HEADER

SCALE: 3" = 1' - 0" | 5



SEE EQUIVALENT PC SHEET A-4.02 FOR NOTES & SYMBOL LEGENDS

EXTERIOR ELEVATIONS - FRONT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 1

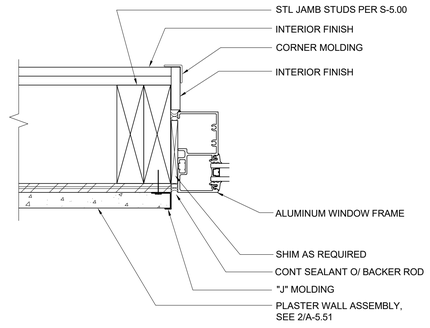
2 LAYER GYPSUM WALLBOARD,
STEEL COLUMN COVER
PER 2022 CBC SECTION 722.5.1.2

BASE LAYER MIN. 5/8" TYPE X GYPSUM WALLBOARD APPLIED AROUND TUBE STEEL COLUMN AND HELD IN PLACE WITH PAPER MASKING TAPE. SECOND LAYER 5/8" TYPE X GYPSUM WALLBOARD APPLIED AROUND COLUMN AND HELD IN PLACE WITH PAPER MASKING TAPE. HORIZONTAL JOINTS MUST BE SPACED AT 8' MIN. AND STAGGERED 12" AT SUCCESSIVE LAYERS. FACE LAYER EITHER NO. 24 MSG GALVANIZED STEEL COLUMN COVER CONSISTING OF TWO L-SHAPED SECTIONS WITH SNAP-LOCK SHEET STEEL JOINTS OR NO. 22 MSG GALVANIZED STEEL COLUMN COVERS CONSISTING OF TWO L-SHAPED SECTIONS WITH LAP JOINTS FASTENED WITH NO. 8x1/2" SHEET METAL SCREWS 12" O.C.



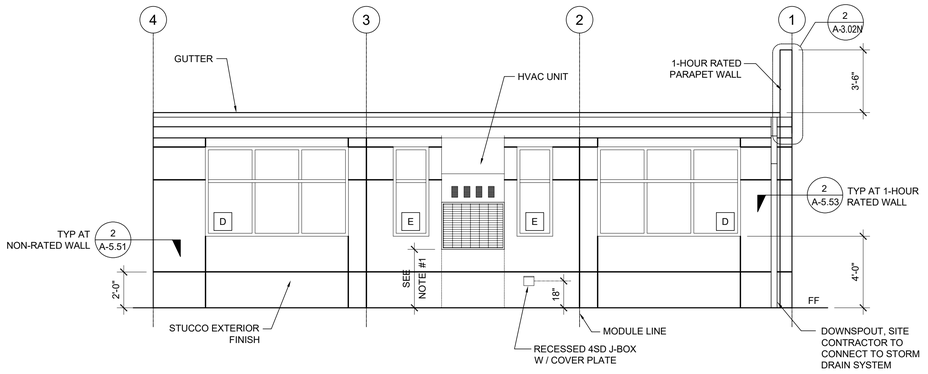
1-HOUR COLUMN PROTECTION

SCALE: N.T.S. | 10



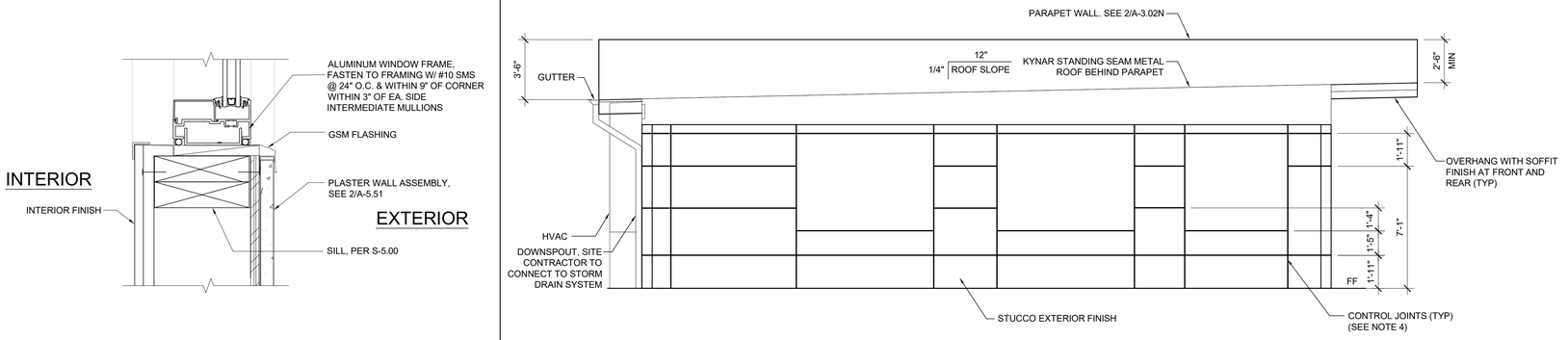
STOREFRONT JAMB

SCALE: 3" = 1' - 0" | 6



EXTERIOR ELEVATIONS - REAR - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 2

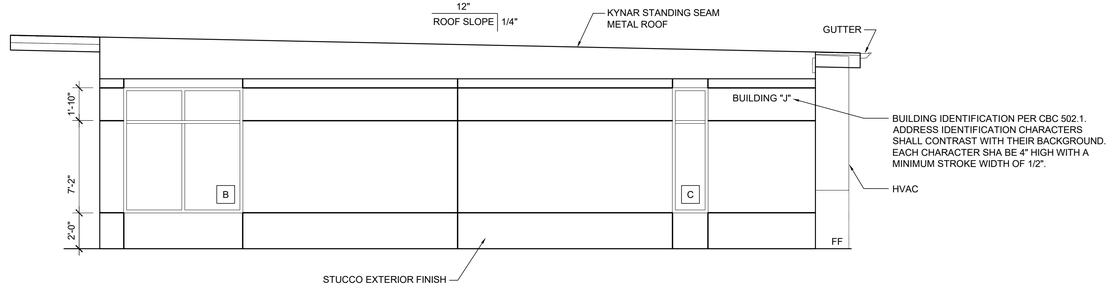


STOREFRONT SILL

SCALE: 3 = 1' - 0" | 7

EXTERIOR ELEVATIONS - LEFT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 3



EXTERIOR ELEVATIONS - RIGHT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

EXTERIOR ELEVATION

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

MODULAR STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

REVISIONS

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SILVER CREEK INDUSTRIES

JOB #:	11657
DRAWN BY:	MR
SCALE:	AS NOTED
DATE:	10/18/2025

SHEET NUMBER

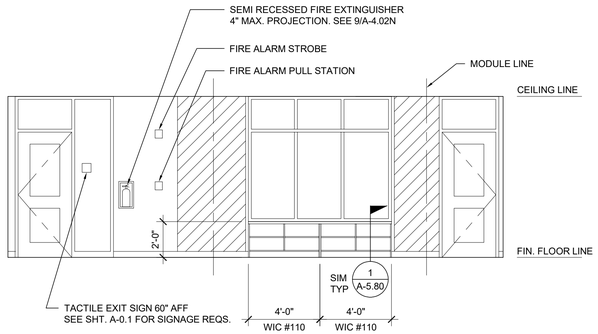
A-4.02N

NOTES

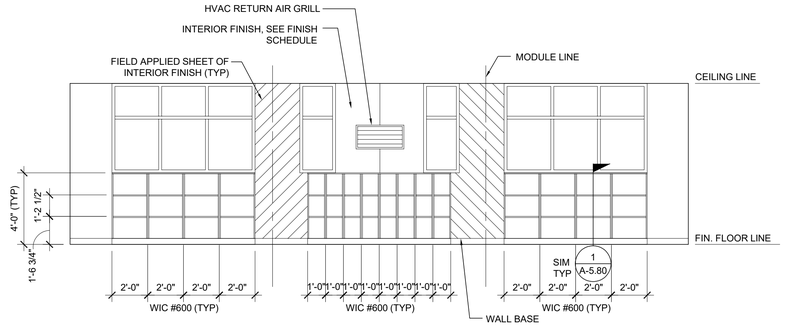
1. ALL CASEWORK TO HAVE CORIAN SOLID SURFACE COUNTER TOPS W/ BULLNOSE EDGE
2. ALL CASEWORK TO BE LOCKABLE
3. ALL CASEWORK TO BE WIC CERTIFIED
4. SEE 15/P-1.01 FOR RESTROOM ACCESSORY MOUNTING HEIGHTS

SYMBOL LEGEND

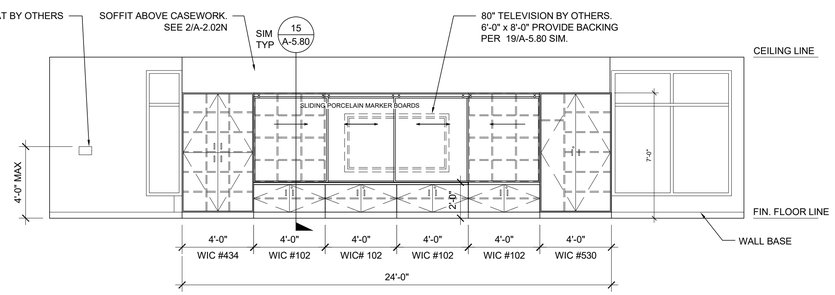
(X) RESTROOM ACCESSORY TAG. SEE SHEET A-1.02N



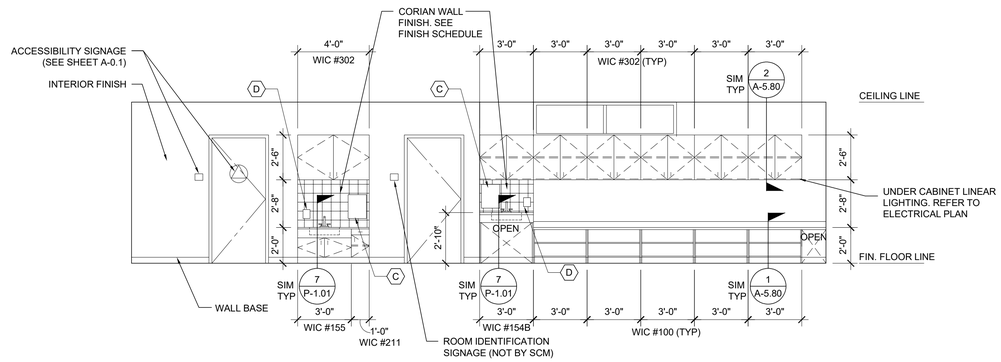
FRONT ELEVATION SCALE: 1/4" = 1' - 0" 3



REAR ELEVATION SCALE: 1/4" = 1' - 0" 1



SIDE ELEVATION SCALE: 1/4" = 1' - 0" 4



SIDE ELEVATION SCALE: 1/4" = 1' - 0" 2

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

INTERIOR ELEVATIONS

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

MODULAR STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

REVISIONS

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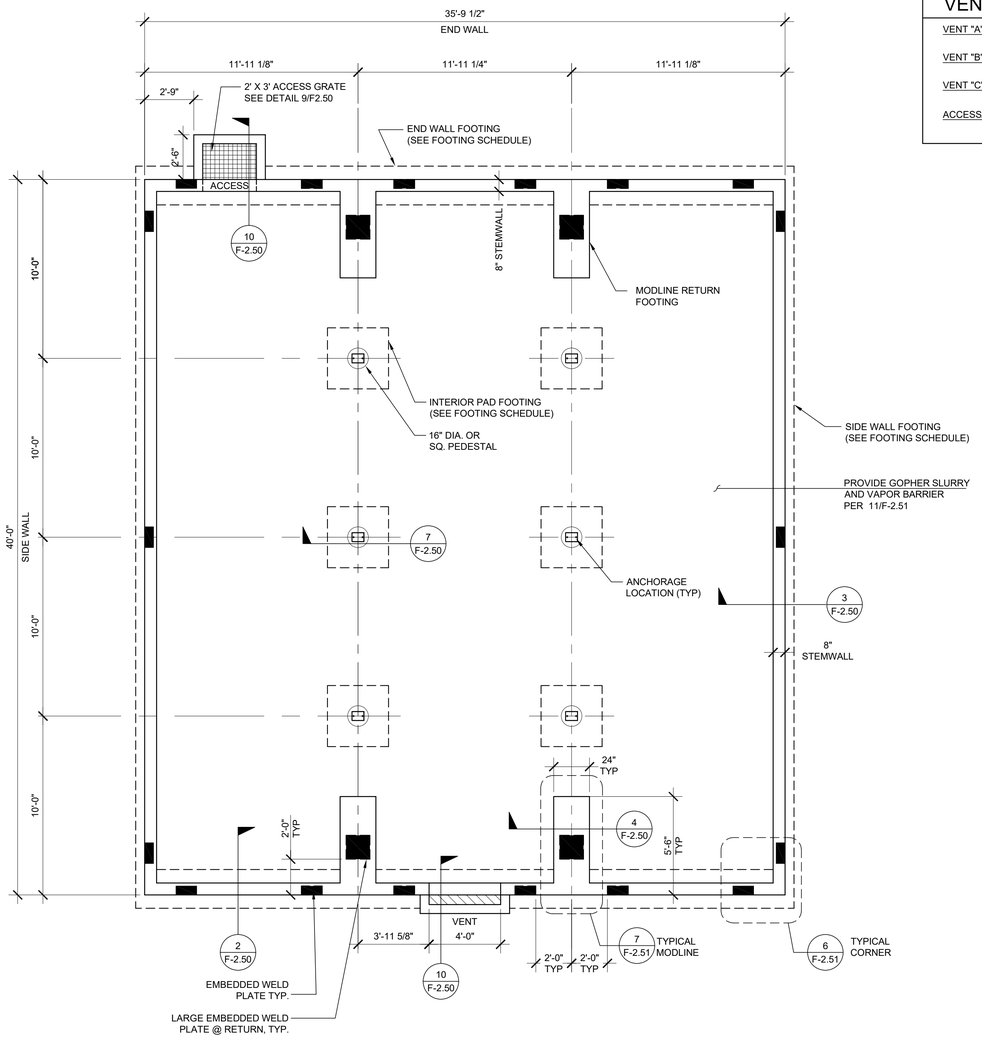
SILVER CREEK INDUSTRIES

JOB #:	11657
DRAWN BY:	MR
SCALE:	AS NOTED
DATE:	10/18/2025

SHEET NUMBER

A-6.02N

SYMBOLS LEGEND	
	L-6x4x3/8x14 EMBED PLATE PER 9/F-2.51
	6x8x3/8 EMBED PLATE PER 7/F-2.50
	16x16x3/8 EMBED PLATE PER 14/F-2.51



VENTING CALCULATION:

PROJECT SPECIFIC VENT CALCLATION:

36' x 40' BUILDING: 36' x 40' = 1,440SF / 1500 (VAPOR BARRIER) = 0.96 SF VENT. REQ'D

TOTAL PROVIDED:

(1)VENT 'C' @ 1.59 EA = 1.59 SF
(1)VENT 'D' @ 4.25 = 4.25 SF

TOTAL SF VENTILATION PROVIDED 5.84

TOTAL PROVIDED 5.84 SF > TOTAL REQUIRED 0.96 SF

VENTILATION OPENINGS SHALL BE COVERED WITH WELDED STEEL GRATING WITH OPENINGS NOT MORE THAN 1/4 INCH IN DIRECTION OF TRAVEL.

VENTING SCHEDULE

VENT "A" : (8'-0" x 8" METAL SCREEN COVER)
7'-10" x 5" = 3.26 S.F. VENTILATION

VENT "B" : (6'-0" x 8" METAL SCREEN COVER)
5'-10" x 5" = 2.43 S.F. VENTILATION

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

SEE EQUIVALENT PC SHEET F-2.11 FOR NOTES AND VENTING CALCULATIONS

FOUNDATION PLAN

SCALE: 1/4" = 1' - 0" | 1

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APP: 01-122855 INC:
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DATE: 1/23/2026

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

CONCRETE
FOUNDATION PLAN

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

MODULAR STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

REVISIONS

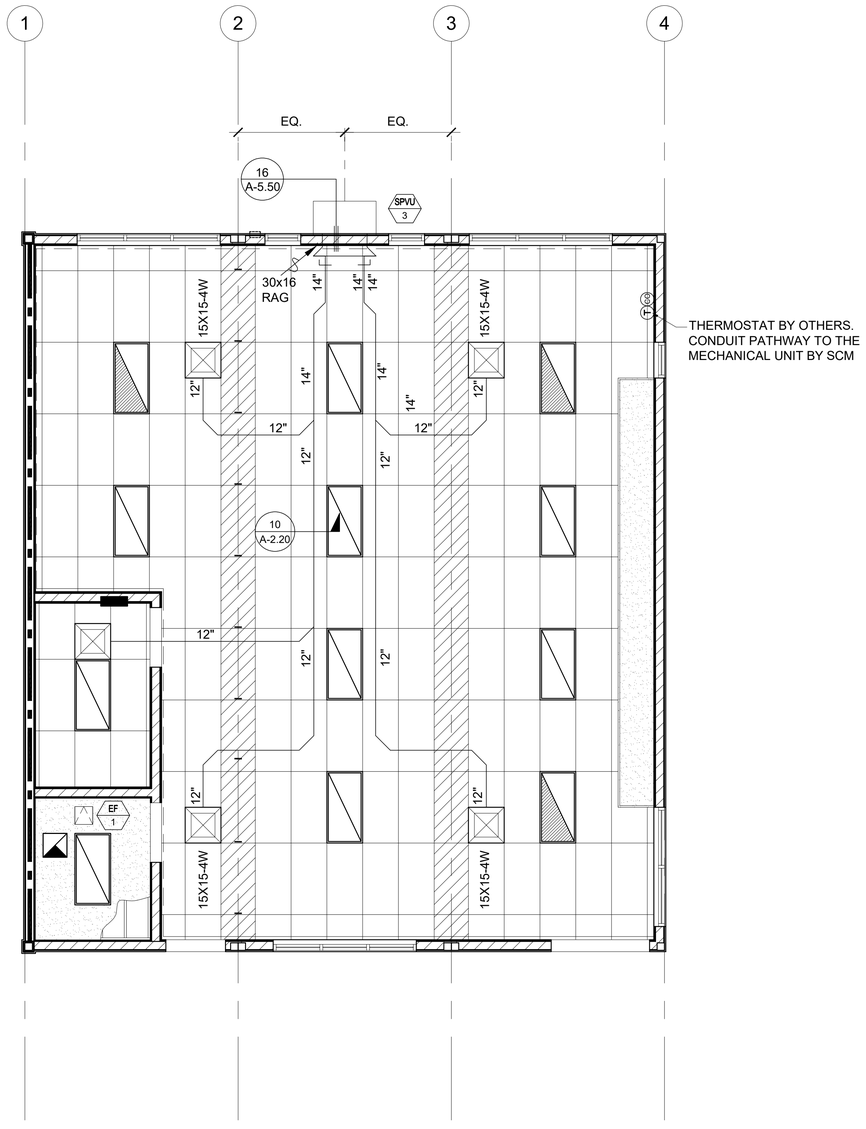
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SILVER CREEK INDUSTRIES

JOB #:	11657
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SHEET NUMBER

F-2.11N



MECHANICAL PLAN

SCALE: 1/4" = 1'-0" 1

WALL MOUNTED MECHANICAL EQUIPMENT SCHEDULE		
	SPVU-3	
HVAC EQUIPMENT MAKE AND MODEL	BARD C60HF-BOZYN4X4E	
BTUH:		
HEATING	52,500	
COOLING	55,500	
INDOOR/ BLOWER FAN:		
BHP/HP	0.75/0.75	
CFM	1,750	
STRIP HEATING	NA	
SEER	NA	
EER	11.0	
HSPF	NA	
COP	3.3	
VOLTAGE	230/208 - 3	
MCA	28	
MCOP	36	
WIRE SIZE (PWR/ GRND)	8/8	
THERMOSTAT:		
MAKE AND MODEL	INTEGRATED	
CONTROLS	FIXED DRY BULB	
FAULT DETECTION	YES	
OUTSIDE AIR DAMPER POSITION	VARIES	
DEMAND CONTROL VENTILATION	YES	
MINIMUM DCV OUTSIDE AIRE IN CFM	0.15 CFM / SF	
MINIMUM DESIGNED OUTSIDE AIR IN CFM	SEE BELOW	
DEMAND SHED THERMOSTAT	NA	
OPERATING WEIGHT	595 #	

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 AND THE EER AND COP VALUES ARE NO LESS THAN THOSE SHOWN ABOVE.
PROVIDE A CO2 SENSOR WITH LCD DISPLAY (CARRIER #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 THERMOSTAT PER ENERGY CODE SECTION 120.2(i).
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:

36' X 40' CLASSROOM

REQUIRED VENTILATION BASED ON AREA
ROOM AREA = 1,440 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 1,440 X 0.38 = 548 CFM

VENTILATION AS DESIGNED (BASED ON OCCUPANCY)
BUILDING AREA = 1,440 SF
OCCUPANCY FOR EGRESS PURPOSES = 1,440 / 20 = 72 OCCUPANTS
EXPECTED # OF OCCUPANTS = 72 OCCUPANTS X 0.50 = 36 OCUPANTS
REQUIRED VENTILATION RATE = 15 CFM / OCCUPANT
REQUIRED OUTSIDE AIR VOLUME = 36 X 15 = 540 CFM

MINIMUM REQUIRED VENTILATION FOR DCV
ROOM AREA = 1440 SF
REQUIRED VENTILATION RATE = 0.15 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 1440 X 0.15 = 216 CFM

SEE EQUIVALENT PC
SHEET M-1.02 FOR NOTES
& SYMBOL LEGENDS

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.

IDENTIFICATION STAMP
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PROJECT NAME:
S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:
MECHANICAL PLAN

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

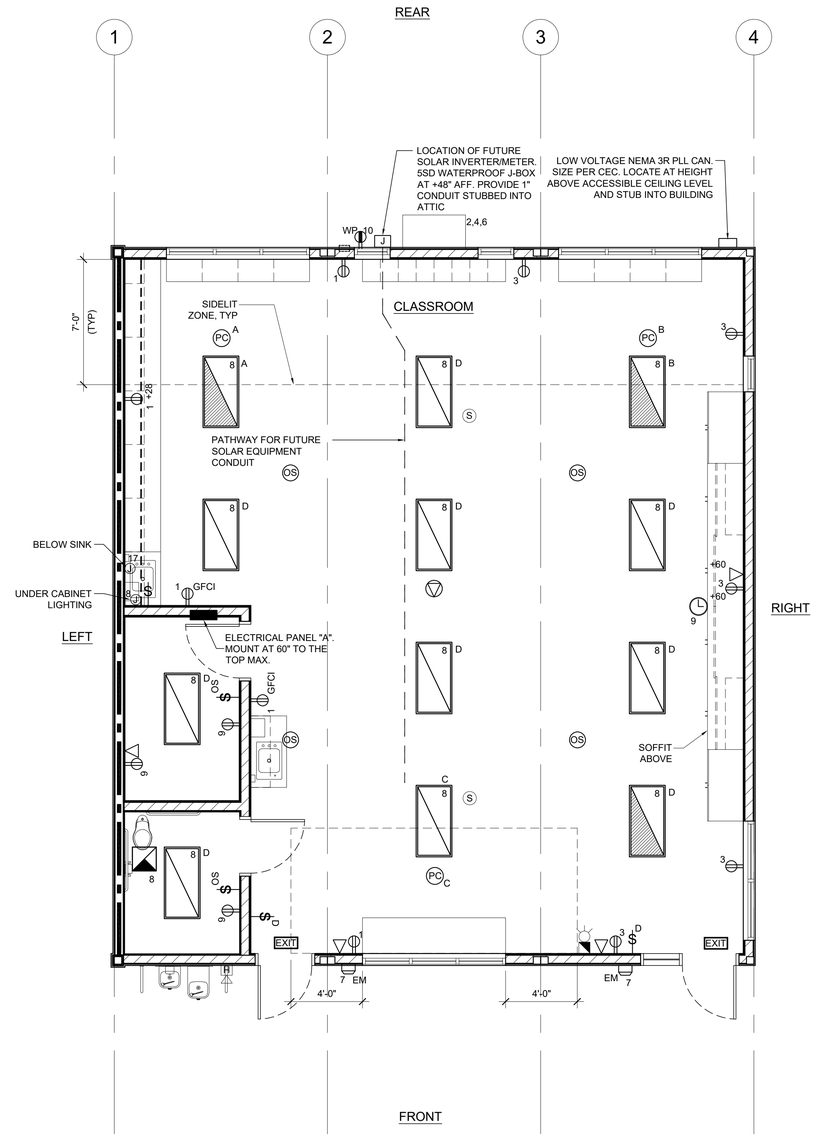
MODULAR STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

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SILVER CREEK INDUSTRIES

JOB #:	11657
DRAWN BY:	MR
SCALE:	AS NOTED
DATE:	10/18/2025

SHEET NUMBER
M-1.02N



SEE EQUIVALENT PC SHEET E-1.02 FOR NOTES & SYMBOL LEGENDS

NOTES

1. ALL OUTLETS ARE TO BE CHILD PROOF RECEPTACLES
2. PROVIDE 24 DATA PATHWAYS STUBBED ABOVE CEILING
3. PROVIDE WATT STOPPER LIGHTING CONTROLS

PANEL: A SERIAL NO:	PHASE: THREE			VOLTS: 120/208			BUSS: 150 AMP			MAIN: 150 AMP						LOCATION: INTERIOR				FEED: 1 1/2" BOTTOM				MOUNTING: RECESSED
OBJECT DESCRIPTION	WATT PER	NO. OF	LCL	WATTS A	B	C	BRK	POL	WIRE SIZE	CKT NO	LEGS A	B	C	CK NO	WIRE SIZE	POLE	BRK	WATTS A	B	C	LCL	NO. OF	WATT PER	OBJECT DESCRIPTION
RECEPT	180	5		900			20	1	#12	1	X			2	#6	3	35	3333				1	3333	5 TON AC
RECEPT	180	5			900		20	1	#12	3		X		4	#6	/	/		3333			1	3333	5 TON AC
						0				5			X	6	#6	/	/			3333		1	3333	5 TON AC
EXT LIGHTS	30	2	x	60			20	1	#12	7	X			8	#12	1	20	714			x	14	51	INT LIGHTS/ FAN
RECEPT	180	4			720		20	1	#12	9		X		10	#12	1	20		0			1	180	EXT RECEPT
						0				11			X	12						0				
				0						13	X			14				0						
					0					15		X		16					0					
INSTAHOT - DED	3000	1				3000	25	1	#12	17			X	18						0				
FUTURE LIGHTING	180	1	X	180						19	X			20				0						
FUTURE LIGHTING	180	1	x		180					21		X		22					0					
										23			X	24						0				
	LEG TOTALS			1140	1800	3000												4047	3333	3333	LEG TOTALS			

LCL=283.5+16653=16936.5

TOTAL WATTS=16936.5 — LEG BALANCE = 10.5% — TOTAL AMPS: 47.07

ELECTRICAL PANEL SCHEDULE

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

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ELECTRICAL PLAN

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

ARCHITECT OF RECORD

MODULAR STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24475 STRUCTURAL STATE OF CALIFORNIA

REVISIONS
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SILVER CREEK INDUSTRIES

JOB #:	11657
DRAWN BY:	MR
SCALE:	AS NOTED
DATE:	10/18/2025

SHEET NUMBER

E-1.02N

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

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	☒ 50+15 PSF PARTITION LOAD
	☐ 100 PSF	☐ 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 = 2.408 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 = 1.9264

☑ SITE CLASS C or D: 0.7 x S_{DS}* = 0.7 x 1.9264 = 1.35 ≤ 2.23

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' (60 PSF)~~
A-0A	T & I FORMS	~~F-0.02~~	~~WOOD FOUNDATION PLAN - 24' x 40' (60-15 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' (60 PSF)~~
A-0.3	TYPICAL KEY PLANS - 24' TO 120' x 40'	~~F-0.12~~	~~WOOD FOUNDATION PLAN - 36' x 40' (60-15 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' (60 PSF)~~
~~A-0.53~~	~~DESIGN ENERGY VALUES - WOOD FLOOR - WALL HVAC~~	~~F-0.22~~	~~WOOD FOUNDATION PLAN - 48' x 40' (60-15 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
~~A-0.6D~~	~~SINGLE MODULE - TOILET BUILDING COMPLIANCE FORMS~~	F-2.50	CONCRETE FOUNDATION DETAILS - BELOW GRADE
~~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		
~~A-1.01~~	~~FLOOR PLAN - 24' x 40'~~	**SHEET**	**STRUCTURAL**
A-1.02	FLOOR PLAN - 36' x 40'	S-0.1	STRUCTURAL SPECIFICATIONS
~~A-1.03~~	~~FLOOR PLAN - 48' TO 120' x 40'~~		
~~A-1.04~~	~~OPTIONAL RESTROOM END MODULE ADULT HEIGHT PLAN & ELEVATIONS~~		
~~A-1.04A~~	~~OPTIONAL RESTROOM END MODULE ALTERNATE HEIGHT PLANS~~	~~S-1.01~~	~~FLOOR FRAMING PLAN - WOOD FLOOR~~
~~A-1.05~~	~~OPTIONAL RESTROOM END MODULE PLUMBING PLAN~~	S-1.11	FLOOR FRAMING PLAN - CONCRETE FLOOR
~~A-1.06~~	~~TOILET BUILDING 24' x 40' ADULT HEIGHT PLAN & ELEVATIONS~~	~~S-1.50~~	~~FLOOR FRAMING DETAILS - WOOD FLOOR~~
~~A-1.06A~~	~~TOILET BUILDING 24' x 40' ALTERNATE HEIGHT PLANS~~	S-1.60	FLOOR FRAMING DETAILS - CONCRETE FLOOR
~~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-2.05~~	~~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-2.15~~	~~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-2.75~~	~~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~~
~~A-3.31~~	~~ROOF PLAN - 24' x 40' - PARAPET - MONO OR DUAL SLOPE~~	S-5.00	WALL FRAMING ELEVATIONS - WOOD STUDS
~~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-5.60~~	~~WALL FRAMING ELEVATIONS - STEEL STUDS~~
		~~S-5.70~~	~~WALL FRAMING DETAILS - STEEL STUDS~~
~~A-3.14~~	~~ROOF PLAN - 24' x 40' - TPO - MONO OR DUAL SLOPE~~	~~S-5.71~~	~~WALL FRAMING DETAILS - STEEL STUDS~~
~~A-3.16~~	~~ROOF PLAN - 36' x 40' - TPO - MONO OR DUAL SLOPE~~		
~~A-3.18~~	~~ROOF PLAN - 48 TO 120' x 40' - TPO - MONO SLOPE~~		
~~A-3.14~~	~~ROOF PLAN - 48 TO 120' x 40' - TPO - DUAL SLOPE~~	**SHEET**	**PLUMBING**
		P-1.01	PLUMBING DETAILS AND SCHEDULE
A-3.50	ROOF DETAILS - STANDING SEAM ROOF DECK		
A-3.80	ROOF DETAILS - PARAPET		
~~A-3.90~~	~~ROOFING DETAILS - TPO ROOF~~		
		SHEET	**MECHANICAL**
~~A-4.01~~	~~EXTERIOR ELEVATIONS - 24' x 40' - MONO OR DUAL SLOPE~~	M-0.1	MECHANICAL NOTES, SCHEDULES, AND DETAILS
A-4.02	EXTERIOR ELEVATIONS - 36' x 40' - MONO SLOPE		
~~A-4.06~~	~~EXTERIOR ELEVATIONS - 36' x 40' - DUAL SLOPE~~		
~~A-4.04~~	~~EXTERIOR ELEVATIONS - 48' TO 120' x 40' - MONO SLOPE~~	~~M-1.01~~	~~MECHANICAL PLAN - WALL MOUNT - 24' x 40'~~
~~A-4.05~~	~~EXTERIOR ELEVATIONS - 48' TO 120' x 40' - DUAL SLOPE~~	M-1.02	MECHANICAL PLAN - WALL MOUNT - 36' x 40'
		~~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~~		
A-4.22	EXTERIOR ELEVATIONS - 36' x 40' PARAPET - MONO OR DUAL SLOPE	~~M-2.01~~	~~MECHANICAL PLAN - ROOF MOUNT - 24' x 40'~~
~~A-4.26~~	~~EXTERIOR ELEVATIONS - 48' x 120' x 40' PARAPET - MONO OR DUAL SLOPE~~	~~M-2.02~~	~~MECHANICAL ROOF PLAN - ROOF MOUNT - 24' x 40'~~
		~~M-2.01~~	~~MECHANICAL PLAN - ROOF MOUNT - 36' x 40'~~
A-5.01	CROSS SECT. - MONO SLOPE	~~M-2.03~~	~~MECHANICAL ROOF PLAN - ROOF MOUNT - 36' x 40'~~
~~A-5.02~~	~~CROSS SECT. - DUAL SLOPE~~	~~M-1.01~~	~~MECHANICAL PLAN - ROOF MOUNT - 48' TO 120' x 40'~~
A-5.05	CROSS SECTION	~~M-1.02~~	~~MECHANICAL ROOF PLAN - ROOF MOUNT - 48' TO 120' x 40'~~
~~A-5.50~~	~~ARCHITECTURAL DETAILS - WOOD STUD - SHTG~~		
A-5.51	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER	**SHEET**	**ELECTRICAL**
~~A-5.52~~	~~ARCHITECTURAL DETAILS - WOOD STUD - WOOD SIDING - 1 HOUR RATED~~	~~E-1.01~~	~~ELECTRICAL PLAN AND SCHEDULE - 24' x 40'~~
A-5.53	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER - 1 HOUR RATED	E-1.02	ELECTRICAL PLAN AND SCHEDULE - 36' x 40'
		~~E-1.03~~	~~ELECTRICAL PLAN AND SCHEDULE - 48' TO 120' x 40'~~
~~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~~
A-5.70	ARCHITECTURAL DETAILS - FLOOR	~~R-1.02~~	~~OFFSET RAMP PLAN~~
~~A-5.71~~	~~DETERIORATION PROTECTION - NON-WB SIDING - CONC FLR - WD STUDS~~	~~R-1.03~~	~~RAMP LANDING~~
A-5.72	DETERIORATION PROTECTION - STUCCO FINISH - CONC FLR - WD STUDS	~~R-1.04~~	~~STANDARD LANDING WITH HTCPD~~
~~A-5.73~~	~~DETERIORATION PROTECTION - NON-WB SIDING - WD FLR - WD STUDS~~	~~R-1.05~~	~~SWITCHBACK RAMP PLAN~~
~~A-5.74~~	~~DETERIORATION PROTECTION - STUCCO FINISH - WD FLR - WD STUDS~~	~~R-2.01~~	~~RAMP DETAILS~~
~~A-5.75~~	~~DETERIORATION PROTECTION - NON-WB SIDING - CONC FLR - STL STUDS~~	~~R-2.01~~	~~STANDARD CONCRETE RAMP AND DETAILS~~
~~A-5.76~~	~~DETERIORATION PROTECTION - STUCCO FINISH - CONC FLR - STL STUDS~~		
~~A-5.77~~	~~DETERIORATION PROTECTION - NON-WB SIDING - WD FLR - STL STUDS~~		
~~A-5.78~~	~~DETERIORATION PROTECTION - STUCCO FINISH - WD FLR - STL STUDS~~	**SHEET**	**RELOCATABLE SHEETS**
A-5.80	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS	~~REL-101~~	~~BUILDING RELOCATION DETAILS~~
A-5.81	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS	~~REL-102~~	~~BUILDING RELOCATION DETAILS~~
~~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: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

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: 01-121999 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

DSA **1-AMM**

REQUEST FOR ALTERNATE DESIGN, MATERIALS & METHODS OF CONSTRUCTION

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

This form is used in conjunction with *DSA Procedure PR 18-01: Request for Alternate Design, Materials and Methods of Construction*. Please print or type all information or you may complete online and print for signatures. All fields must be completed. Attach additional sheets as necessary. For requests applicable to CCDs, attach the completed form to form *DSA 140: Application for Approval of Construction Change Document – CCD A/B.*

1. PROJECT INFORMATION

Name of Facility: Silver Creek PCs	DSA File #: 33 - silvercreek		
Project Scope: PC Relocatable Designs	DSA App.#: 04 -		
School District: Silver Creek Modular Inc	Increment # *(if applicable)*:		
School District Mailing Address: 2830 Barrett Ave			
City: Perris	State: CA	Zip Code: 92571	

2. CONTACT INFORMATION

A. Facilities Director: Jack Shively
Work Email: jshively@silvercreekmodular.com — Work Phone: (951) 943-5393

B. Firm Architect/Engineer: Jack Starlin
Work Email: jstarlin@silvercreekmodular.com — Work Phone: (951) 943-5393

C. Architect/Engineer Of Record: Jack Starlin
Work Email: jstarlin@silvercreekmodular.com — Work Phone: (951) 943-5393

3. TYPE OF REVIEW REQUESTED

☑ Structural ☐ Fire & Life Safety

4. PURPOSE OF REVIEW REQUEST

☐ Use of Alternate Materials ☑ Propose Alternate Design ☑ Alternate Method of Construction

Applicable Code(s) and Edition: 2022 CBC

Applicable Code Section(s): 2304.12.1.2

5. DESCRIPTION OF CONDITION *(Add additional pages if necessary)*

2304.12.1.2 requires the use of naturally durable or preservative treated wood where the wall is in close proximity to ground level. The proposed alternate design/method utilizes an adhered flashing and termite barrier to provide protection in lieu of preservative treated wood in the area adjacent to ground level.

The system consists of a single layer of adhered flashing roll (Polyguard TERM Flashing Moisture/Termite Barrier) which is installed in the factory and which extends up the wall not less than 8" while covering the joint between the bottom plate of the wall and the floor structure. When the building modules are installed on site a 2nd layer of adhered flashing roll is continued down into the foundation to cover the joint between the floor structure and the foundation wall. Galvanized flashing is then installed over the adhered flashing roll. The galvanized flashing continues up the wall 6" from the ground level and below grade to protect the adhered flashing roll.

DSA 1-AMM

REQUEST FOR ALTERNATE DESIGN, MATERIALS & METHODS OF CONSTRUCTION

6. DESCRIPTION OF REQUESTED ALTERNATE *(Describe the equivalency for each of the following criteria: suitability, strength, effectiveness, fire resistance, durability, safety and sanitation. Indicate N/A when not applicable.)*

A. Suitability:	The proposed product/flashing system is specifically intended to be used at base of wall conditions in order to water proof the joint and to provide a termite barrier.
B. Strength:	N/A
C. Effectiveness:	The protection membrane is directly adhered to the wall sheathing, floor structure and foundation to create a continuous barrier which restricts moisture transfer and pest intrusion. The membrane is a class 1 barrier with a perm rating of 0.035.
D. Fire Resistance:	N/A
E. Durability:	The adhered flashing is intended to be a permanent installation not requiring regular maintenance. In addition to the adhered flashing membrane we are providing a galvanized metal flashing at ground level to provide protection from abuse.
F. Safety:	The system has no impact on occupant safety after installation. The safety requirements during installation are similar to other adhesive products.
G. Sanitation:	The system does not require any specific cleaning or maintenance after installation. The installed system provides a more sanitary interior environment due to the continuous barrier to pest intrusion that is provided by the membrane.

IDENTIFICATION OF SUPPORTING DOCUMENTATION *(List all; attach copies of data.)*

1. Proposed base of wall flashing details.

FOR DSA USE ONLY

Discipline	Reviewer	Return Date	Accepted Date	Rejected Date
SS				
FLS				
ACS				

DSA Special Conditions or Restrictions:

Notes: *(Add comments or rationale relating to 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	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	SE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	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.
Test – Indicates that a test is required	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.

The Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector shall submit a final report to the DSA Project Inspector and the Architect/Engineer of Record (A/E) stating that the tests and inspections performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector and their employees or agents conform to the approved construction documents. The Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector and the A/E shall submit a final report to DSA stating that the tests and inspections performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector and their employees or agents conform to the approved construction documents.

	C1. 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 Items 1 & 9.
	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 (SDC C through F) or 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.3.9; Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 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); 8.4b (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.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing with a design base for maximum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, S) roll 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 an 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.
☐	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:
☐	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. Where 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 5-1/8" 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 curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 200lbf (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, Alton, 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 located in the Steel/Aluminum category 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).
☐	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, <400lbf and resulting composite center of mass (including component's center of mass) c/f above supporting floor/roof, B) when hung from a wall or roof/floor, <20lf for discrete units or <5 plf for distributed systems.

BELOW GRADE FOUNDATION (AMM) 5

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	SE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	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.
Test – Indicates that a test is required	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.

The Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector shall submit a final report to the DSA Project Inspector and the Architect/Engineer of Record (A/E) stating that the tests and inspections performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector and their employees or agents conform to the approved construction documents. The Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector and the A/E shall submit a final report to DSA stating that the tests and inspections performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector and their employees or agents conform to the approved construction documents.

C1. 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 Items 1 & 9.
	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 (SDC C through F) or 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.3.9; Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 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); 8.4b (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.

SOILS:

☐	1. Deep foundations acting as a cantilever footing with a design base for maximum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, S) roll 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 an 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.
☐	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:
☐	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. Where 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 5-1/8" 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 curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 200lbf (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, Alton, 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 located in the Steel/Aluminum category 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).

RELO CONCRETE FOUNDATION 4

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	SE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	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.
Test – Indicates that a test is required	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.

The Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector shall submit a final report to the DSA Project Inspector and the Architect/Engineer of Record (A/E) stating that the tests and inspections performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector and their employees or agents conform to the approved construction documents. The Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector and the A/E shall submit a final report to DSA stating that the tests and inspections performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector and their employees or agents conform to the approved construction documents.

C1. 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 Items 1 & 9.
	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 (SDC C through F) or 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.3.9; Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 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); 8.4b (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.

SOILS:

☐	1. Deep foundations acting as a cantilever footing with a design base for maximum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, S) roll 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 an 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.
☐	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:
☐	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. Where 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 5-1/8" 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 curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 200lbf (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, Alton, 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 located in the Steel/Aluminum category 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).

RELO WOOD FOUNDATION 3

C6. OTHER CONCRETE:

| | Test

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

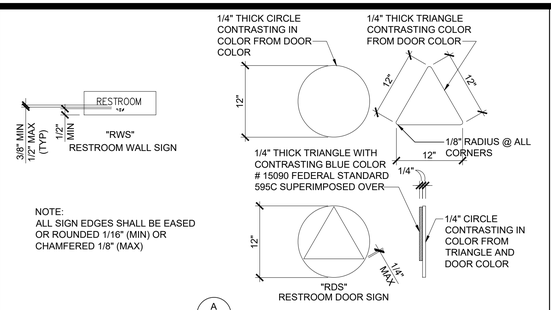
7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
7.02 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.

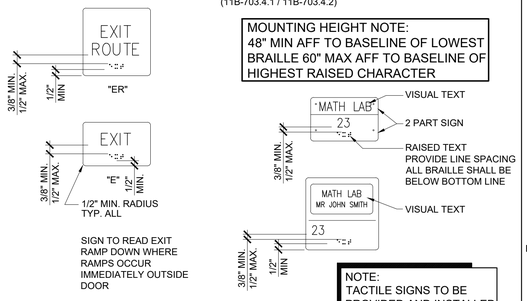
8. OTHER DEVICES WITHIN THE CEILING

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.

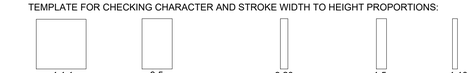
2. RAISED CHARACTER HEIGHT: CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (15.9 mm) MINIMUM AND 2 INCH (51 mm) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". 11B-703.2.5

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:

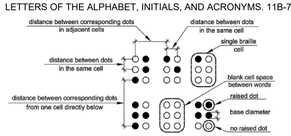


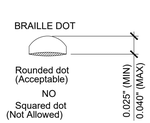
1:1:1	3:5	3:20	1:5	1:10
110%	60%	15%	20%	10%
TACTILE + VISUAL CHARACTER WIDTH		TACTILE STROKE WIDTH	VISUAL STROKE WIDTH	

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

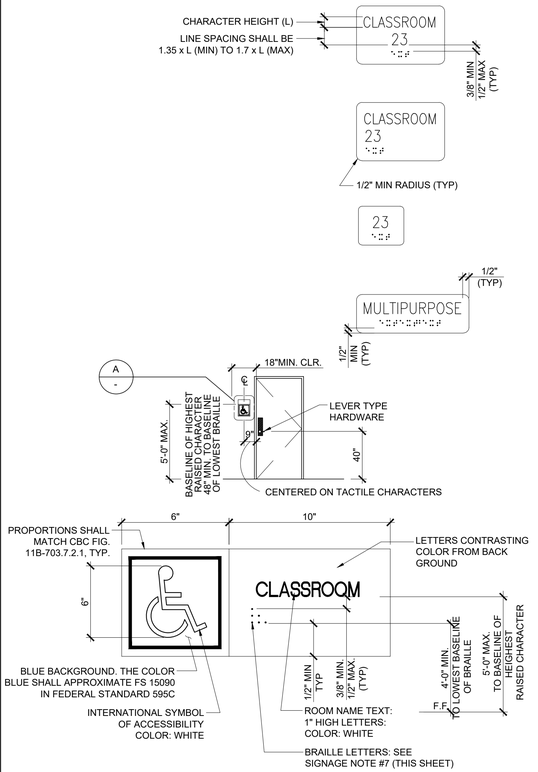
7. BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4. DIMENSIONS AND CAPITALIZATION: BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE 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.

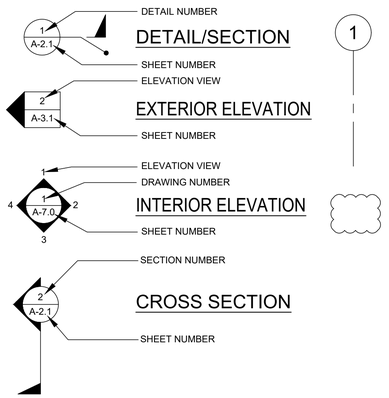
(A) ROOM IDENTIFCATION ROOM SIGNAGE (BY DISTRICT)

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: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121999 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-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 #VSC 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 7/16" 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).

714A - NOT APPLICABLE.

WINDOW SCHEDULE

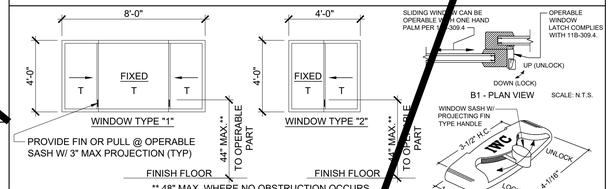
WINDOW NO.	TYPE	SIZE WIDTH	SIZE HEIGHT	FRAME MAT.	OPERABLE	MAX U-FACTOR	REQUIRED SHGC	MIN VT	NFRC RATED	GLASS SPECS	NOTES
A	1	8'-0"	4'-0"	ANOD	YES	0.520	0.350	0.610	YES	DP	
B	2	4'-0"	4'-0"	ANOD	YES	0.520	0.350	0.610	YES	DP	

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.

B2 - PERSPECTIVE VIEW of OPERABLE WINDOW LATCH

DOOR SCHEDULE

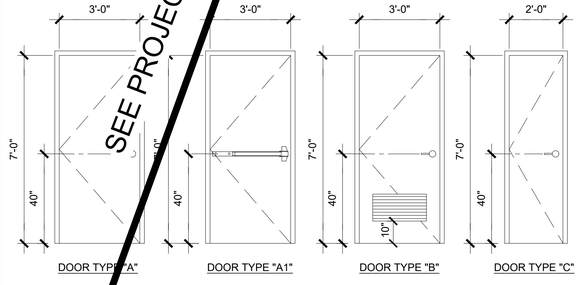
DOOR NO	WIDTH	HEIGHT	DOOR TYPE	QTY	DOOR MAT/FIN	FRAME MAT/FIN	HARDWARE SET	LOCKABLE FROM INT.	NOTES*
1	3'-0"	7'-0"	A		HM	KD	HW - 1	YES	
1P	3'-0"	7'-0"	A1		HM	KD	HW - 2	YES	
2	3'-0"	7'-0"	A		HM	KD	HW - 3	NO	
3	3'-0"	7'-0"	B		HM	KD	HW - 4	NO	
4	3'-0"	7'-0"	B		HM	KD	HW - 5	NO	NO CLOSER REQ'D.
5	2'-0"	7'-0"	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
SC: SOLID CORE WOOD LEGACY
HC: HOLLOW CORE WOOD
P: 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	FLOOR	BASE	WALL FINISH FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	NOTES
CLASSROOM 101	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"	SEE 10/A-5.70
CLASSROOM 102	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"	SEE 10/A-5.70
TOILET 103	SV	6" TS	FRP	FRP	FRP	FRP	CP	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 I, .33 MIN. 4600; DIRECT GLUE DOWN
SV: SHEET VINYL - .33 MIN. 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: ½" 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 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	TAH LHV75-LFIC SAT	Finish 626	or equal
I/C CORE	SCHLAGE 23-030 C123	Finish 626	or equal
BUTTS	TAH BB179 4 ½" x 4 ½" NRP	Finish 626	equal
CLOSER	TAH DC851 DA	Finish 689	qual
WEATHER STRIP	COLUMBIA 3340S 3684	Finish Alum	qual
THRESHOLD	COLUMBIA 4920 36"	Finish Alum	qual
DOOR BOTTOM	COLUMBIA 2590 36"	Finish Alum	qual

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	Finish 626	or equal
BUTTS	TAH BB179 4 ½" x 4 ½" NRP	Finish 626	or equal
CLOSER	TAH DC851 DA	Finish 689	or equal
WEATHER STRIP	COLUMBIA 3340S 3684	Finish Alum	or equal
THRESHOLD	COLUMBIA 4920 36"	Finish Alum	or equal
DOOR BOTTOM	COLUMBIA 2590 36"	Finish Alum	or equal

EMERGENCY EXIT AND PANIC HARDWARE IS TO COMPLY WITH CBC 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 SHIELDED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON CLOTHING OF PERSONS DURING EGRESS.

STAFF RESTROOM / SINGLE-OCCU[PANCY] - INTERIOR DOOR HW-3

LOCKSET	TAL LVH40 SAT	Finish 626	or equal
BUTTS	TAH BB179 4 ½" x [illegible]	Finish 626	or equal

BOYS & GIRLS RESTROOM - EXTERIOR DOOR HW-4

LOCKSET	TAH LHV[illegible] SAT	Finish 626	or equal
I/C CORE	SCHLA[illegible] C123	Finish 626	or equal
BUTTS	TAH [illegible] 4 ½" NRP	Finish 626	or equal
CLOSER	TAH [illegible]	Finish 689	or equal
WEATHER STRIP	C[illegible] 3340S 3684	Finish Alum	or equal
THRESHOLD	[illegible] 4920 36"	Finish Alum	or equal
DOOR BOTTOM	[illegible] 2590 36"	Finish Alum	or equal
LOUVER	[illegible] 24 x 12	Finish Bronze	or equal

STAFF REST[illegible] - EXTERIOR DOOR HW-5

LOCKSET	SCHLAGE L9496J-06A X 09-509 X L583-363	Finish 626	or equal
I/C CORE	SCHLAGE 23-030 C123	Finish 626	or equal
BUTTS	TAH BB179 4 ½" x 4 ½" NRP	Finish 626	or equal
WEATHER STRIP	COLUMBIA 3340S 3684	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	TAH LVH70 LFIC SAT	Finish 626	or equal
I/C CORE	SCHLAGE 23-030 C123	Finish 626	or equal
BUTTS	TAH 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

SEE PROJECT SPECIFIC SHEET A-0.2N

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

SCHEDULES

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: 01-121999 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

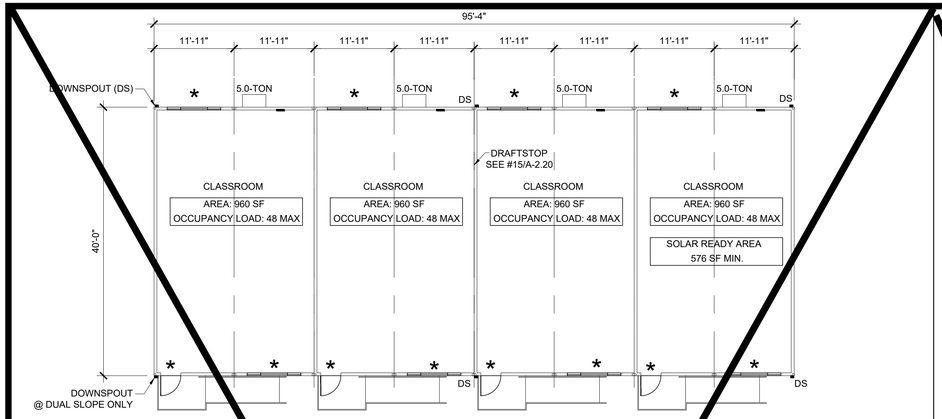
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24075
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

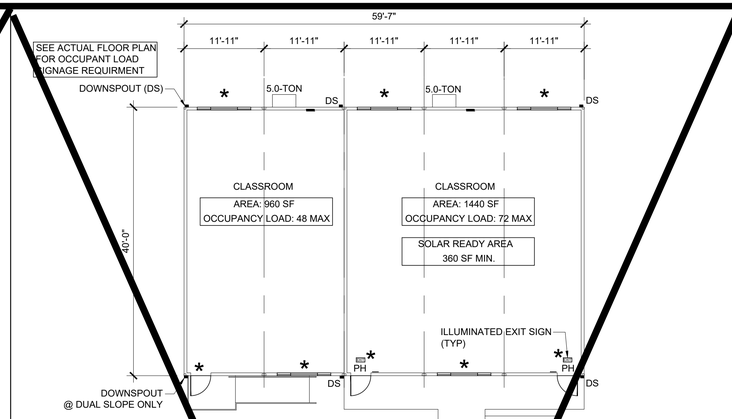
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER
A-0.2



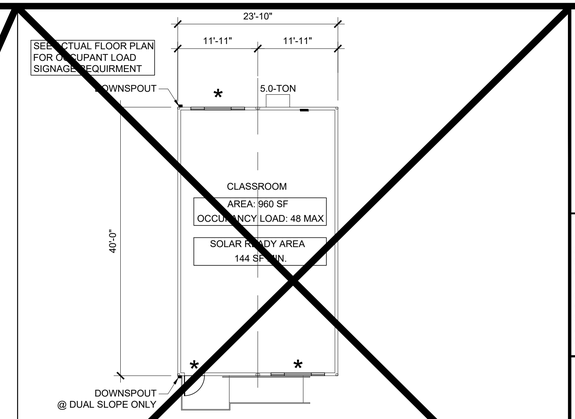
* NOTE:
1. DOOR / WINDOW PLACEMENTS MAY VARY. IF AREA OF THE WINDOW AND/OR DOOR OPENINGS IN ANY WALL EXCEEDS WHAT IS SHOWN ON THIS PLAN A NEW PROJECT SPECIFIC ENERGY CALCULATION SHALL BE PROVIDED.
2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.

96' x 40' KEY PLAN (TOTAL AREA - 3840 SF) SCALE: 3/32" = 1' - 0" | 7



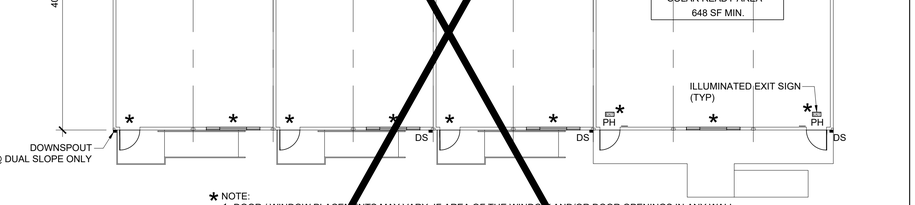
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3. PROVIDE PANIC HARDWARE FOR ROOMS WITH TWO OR MORE EXIT DOORS.
4. PROVIDE TACTILE EXIT SIGN, PER DETAIL ON SHEET A-0.1, (TYP), SEE FLOOR PLAN SHT. FOR LOCATIONS

60' x 40' KEY PLAN (TOTAL AREA - 2400 SF) SCALE: 3/32" = 1' - 0" | 4



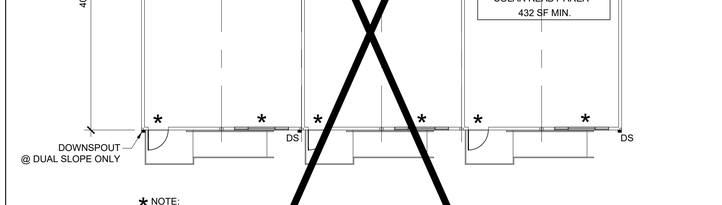
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24' x 40' KEY PLAN (TOTAL AREA - 960 SF) SCALE: 3/32" = 1' - 0" | 1



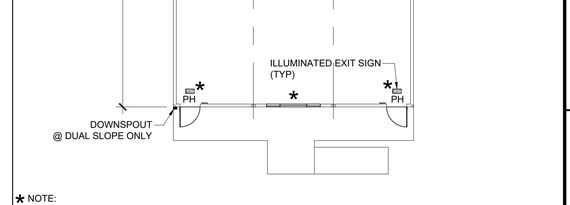
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3. PROVIDE PANIC HARDWARE FOR ROOMS WITH TWO OR MORE EXIT DOORS.
4. PROVIDE TACTILE EXIT SIGN, PER DETAIL ON SHEET A-0.1, (TYP), SEE FLOOR PLAN SHT. FOR LOCATIONS

108' x 40' KEY PLAN (TOTAL AREA - 4320 SF) SCALE: 3/32" = 1' - 0" | 8



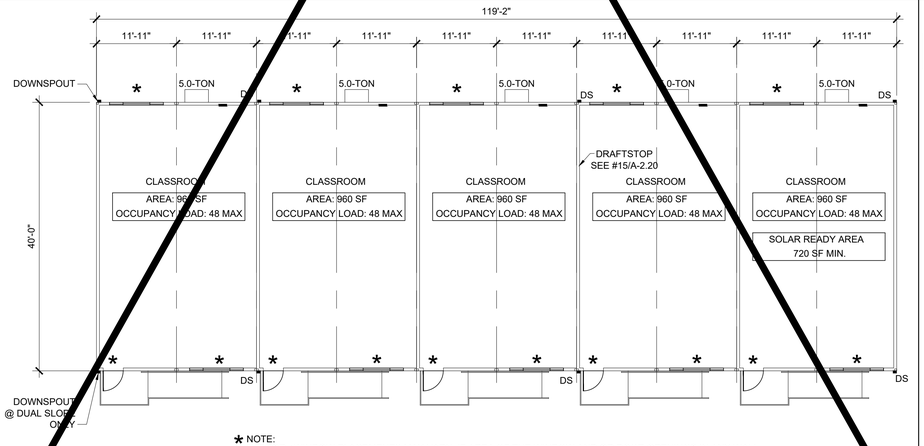
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2. OPT. INTERIOR PARTITIONS MAY BE ADDED FOR BLDGS. WITH FLOOR LIVE LOADS OF 50+15, 100, OR 150 PSF AND SHALL BE SUBMITTED TO DSA FOR REVIEW. REFER TO STRUCTURAL DWGS. FOR WALL ATTACHMENT.

72' x 40' KEY PLAN (TOTAL AREA - 2880 SF) SCALE: 3/32" = 1' - 0" | 5



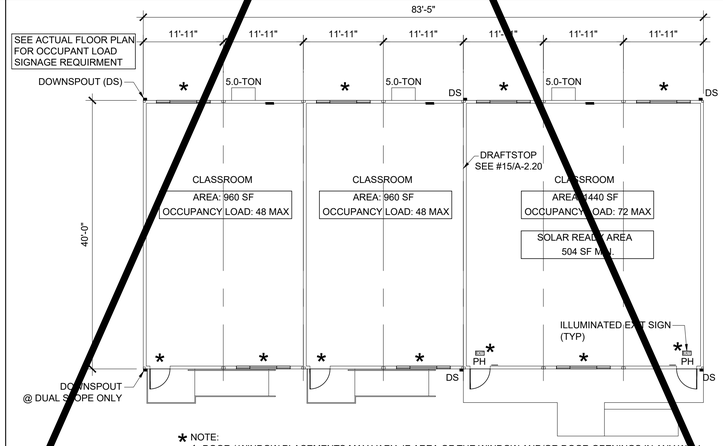
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3. PROVIDE PANIC HARDWARE FOR ROOMS WITH TWO OR MORE EXIT DOORS.
4. PROVIDE TACTILE EXIT SIGN, PER DETAIL ON SHEET A-0.1, (TYP), SEE FLOOR PLAN SHT. FOR LOCATIONS

36' x 40' KEY PLAN (TOTAL AREA - 1440 SF) SCALE: 3/32" = 1' - 0" | 2



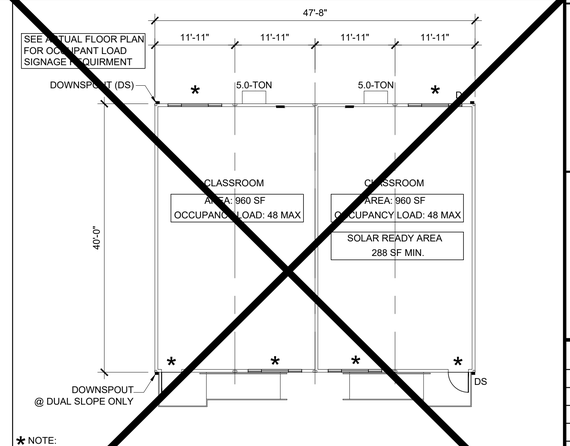
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720' x 40' KEY PLAN (TOTAL AREA - 4800 SF) SCALE: 3/32" = 1' - 0" | 9



* 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.
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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

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: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

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: 01-121999 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
24175
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						
		TDV Eff.	%	TDV Total	%	Source EN.	%	Result
Zone 14 92301 (PALMDALE)	30	82.80	19.7%	82.80	19.7%	7.99	22.1%	0.0%
	75	85.05	19.9%	85.05	19.9%	8.19	22.4%	0.0%
	120	85.02	19.9%	85.02	19.9%	8.17	22.3%	0.0%
	165	75.40	18.3%	75.40	18.3%	7.33	20.6%	0.0%
	210	78.40	18.8%	78.40	18.8%	7.57	21.1%	0.0%
	255	80.35	19.1%	80.35	19.1%	7.74	21.4%	0.0%
	300	81.33	19.3%	81.33	19.3%	7.82	21.6%	0.0%
	345	74.96	18.3%	74.96	18.3%	7.31	20.7%	0.0%
Zone 15 92225 (PALM SPRINGS)	30	66.40	15.4%	66.40	15.4%	6.35	19.6%	0.0%
	75	70.63	16.1%	70.63	16.1%	6.72	20.3%	0.0%
	120	71.45	16.3%	71.45	16.3%	6.80	20.6%	0.0%
	165	61.72	14.6%	61.72	14.6%	5.93	18.6%	0.0%
	210	61.83	14.6%	61.83	14.6%	6.06	18.8%	0.0%
	255	64.40	15.0%	64.40	15.0%	6.26	19.3%	0.0%
	300	61.53	14.4%	61.53	14.4%	6.05	18.7%	0.0%
	345	59.93	14.2%	59.93	14.2%	5.80	18.3%	0.0%
Zone 16 96006 (BLUE CANYON)	30	48.32	13.5%	48.32	13.5%	19.97	33.1%	0.0%
	75	51.04	14.1%	51.04	14.1%	20.02	33.1%	0.0%
	120	49.49	13.7%	49.49	13.7%	19.94	33.0%	0.0%
	165	38.74	11.2%	38.74	11.2%	19.58	32.7%	0.0%
	210	51.37	14.2%	51.37	14.2%	20.12	33.3%	0.0%
	255	54.75	15.0%	54.75	15.0%	20.11	33.2%	0.0%
	300	51.32	14.2%	51.32	14.2%	19.87	33.0%	0.0%
	345	41.72	12.0%	41.72	12.0%	19.55	32.7%	0.0%

☒ 36x40 (1) 5-ton unit						
TDV Eff.	%	TDV Total	%	Source EN.	%	Result
104.54	28.7%	104.54	28.7%	9.92	32.0%	PASS
107.04	28.9%	107.04	28.9%	10.14	32.3%	PASS
106.57	28.9%	106.57	28.9%	10.09	32.2%	PASS
98.30	27.7%	98.30	27.7%	9.37	31.0%	PASS
105.02	28.9%	105.02	28.9%	9.94	32.1%	PASS
107.69	29.1%	107.69	29.1%	10.17	32.4%	PASS
106.61	28.9%	106.61	28.9%	10.06	32.1%	PASS
96.98	27.4%	96.98	27.4%	9.25	30.7%	PASS
7.57	2.6%	7.57	2.6%	0.46	2.3%	PASS
6.18	2.1%	6.18	2.1%	0.37	1.9%	PASS
7.43	2.5%	7.43	2.5%	0.37	1.8%	PASS
17.00	5.7%	17.00	5.7%	0.52	2.6%	PASS
15.34	5.2%	15.34	5.2%	0.41	2.0%	PASS
8.33	2.8%	8.33	2.8%	0.52	2.6%	PASS
7.51	2.6%	7.51	2.6%	0.40	2.0%	PASS
8.38	2.9%	8.38	2.9%	0.38	1.9%	PASS
72.69	23.4%	72.69	23.4%	20.21	40.0%	PASS
76.04	24.1%	76.04	24.1%	20.22	39.9%	PASS
72.61	23.3%	72.61	23.3%	20.03	39.7%	PASS
66.12	21.8%	66.12	21.8%	19.85	39.6%	PASS
73.71	23.7%	73.71	23.7%	20.25	40.1%	PASS
76.14	24.2%	76.14	24.2%	20.20	39.9%	PASS
72.08	23.1%	72.08	23.1%	20.02	39.7%	PASS
66.10	21.8%	66.10	21.8%	19.86	39.6%	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		
Building: 24x40		
Assembly	U-Value	Insulation R-Value
Walls:	0.062	R-19 batt
Floor:	0.115	None
Roof:	0.055	R-30 Foam

☒

Envelope Min Design - Zone: 1-16		
Building: 36x40		
Assembly	U-Value	Insulation R-Value
Walls:	0.062	R-19 batt
Floor:	0.066	R-11 batt
Roof:	0.055	R-30 Foam

HVAC Min Design - Zone: 1-16		
Buildings: All		
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	SPVU 2
	STANDARD	OPTIONAL

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 - CONC FLOOR - WALL HVAC

ENERGY SPECS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:
S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:
DESIGN ENERGY VALUES
CONC 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: 01-121999 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-0.51

Project Name: 04-121999 - 36x40 - WD FLR - WALL HVAC | **Date Prepared:** 2023-07-18

A. General Information

1	Project Name	04-121999 - 36x40 - WD FLR - WALL 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_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units: 0
14	Total Conditioned Floor Area in Scope (ft²)	1440	15	Total # of hotel/motel rooms: 0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type: Natural gas
18	Nonresidential Conditioned Floor Area	1440	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 I)	☐	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	354.06	354.06	30.15
Proposed Design	266.39	266.39	22.1
Compliance Margins	**87.67**	**87.67**	**8.05**
	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	28.01	36.84	-8.83
Space Cooling	94.92	93.54	1.38
Indoor Fans	154.98	69.39	85.59
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	43.54	43.52	0.02
Indoor Lighting	32.61	23.1	9.51
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**354.06**	**266.39**	**87.67 (24.8%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**354.06**	**266.39**	**87.67 (24.8%)**

[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	67.93	67.93	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**421.99**	**334.32**	**87.67 (20.8%)**

[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	4.15	5.45	-1.3
Space Cooling	3.55	3.4	0.15
Indoor Fans	15.33	6.88	8.45
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	4.55	4.55	0
Indoor Lighting	2.57	1.82	0.75
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**30.15**	**22.1**	**8.05 (26.7%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**30.15**	**22.1**	**8.05 (26.7%)**

[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)	**35.07**	**27.01**	**8.05 (23%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ADOPE 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	1.3	1.7	-0.4	---	---	---
Space Cooling	3.5	3.4	0.1	---	---	---
Indoor Fans	7.9	3.5	4.4	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	2.5	2.5	0	---	---	---
Indoor Lighting	1.8	1.3	0.5	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**17**	**12.4**	**4.6**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**17**	**12.4**	**4.6**	**0**	**0**	**0**
Receptacle	3.8	3.8	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**20.8**	**16.2**	**4.6**	**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]	49.28	38.38	10.9	22.12
NET EUI[1]	49.28	38.38	10.9	22.12

[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 Zone requirements are satisfied. Please see 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.

E1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	414	64	15.46
East-Facing[2]	440	0	0
South-Facing[3]	378	32	8.47

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).

E1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
West-Facing[4]	440	0	0
Total	**1672**	**96**	**5.74**
Roof	1440	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).

E4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	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]
SCI PLYWD FLOOR	Exterior Floor	1,440	Metal	19	N/A	N/A	U-factor	0.0544	Vented Crawl Space SCI - STL JOIST FLOOR R-19 >16 OC Plywood - 1 in. Linoleum/cork tile - 1/4 in.	N
2x6 T111 WALL	Exterior Wall	1,672	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 R-19 16 OC Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
SCI MTL ROOF	Roof	1,440	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

[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	42	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 Model	05 Area (ft²)	06 Overall U-factor	07 Overall SHGC	08 Overall VT	09 Status[2]
#NT-A-73-00213-00011	Vertical fenestration Operable window N/A	NFRC	Site built	96	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 in the analysis.
[2] Status: N - New, A – Altered, E - Existing

H1. DRY 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 Package VHP Air System	1	52	0	COP	3.3	56	EER	11	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: CFM	05 Supply Fan: Power	06 Supply Fan: Power Units	07 Supply Fan: Control	08 Supply 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	540	1,650	0.67	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A – Altered, E - Existing

H8. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01 Zone Name	02 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)	36	540	0	1440	DCV

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Rated Capacity (kBtu/h): Heating	05 Rated Capacity (kBtu/h): Cooling	06 Airflow (cfm): Design	07 Airflow (cfm): Min.	08 Min. Ratio	09 Fan: Power	10 Fan: Power/ Units	11 Fan: Cycles	12 VSD
TerminalUnit 101	Uncontrolled	1	N/A	N/A	1,650	N/A	0	N/A	N/A	N/A	☐

H8. SYSTEM SPECIAL FEATURES

01 System Name	02 Equipment Type	03 Interlocks per 140.4(a)[1]	04 Other Special Features and Controls
AirSystem 101	Single Package VHP 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 Zone Name	02 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)	36	540	0	1440	DCV

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Rated Capacity (kBtu/h): Heating	05 Rated Capacity (kBtu/h): Cooling	06 Airflow (cfm): Design	07 Airflow (cfm): Min.	08 Min. Ratio	09 Fan: Power	10 Fan: Power/ Units	11 Fan: Cycles	12 VSD
TerminalUnit 101	Uncontrolled	1	N/A	N/A	1,650	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	1440	612	0	0	0
Building Totals:	**1440**	**612**	**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, T32T8, 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	12	612

[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 match primary functions 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	3	153	0
Classroom 101	Classroom, Lecture, or Training Vocational	N/A	N/A	SCI - 2x4 LED	51	9	459	0
						Lighting Control Credits (Conditioned) Total (Watts):		0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

L. 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 building design features or system design 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 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	Date Signed:
Address: 2830 BARRETT AVE	License #: 2475
City/State/Zip: PERRIS , CA 92571	Title: Engineer Scope: Envelope
Phone: 951-943-5393	
Responsible Designer Name: JOHN STARLIN	Responsible Designer Signature:
Company: SILVER CREEK	Date Signed:
Address: 2830 BARRETT AVE	License #: 2475
City/State/Zip: PERRIS , CA 92571	Title: Engineer Scope: Lighting
Phone: 951-943-5393	

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City/State/Zip: PERRIS , CA 92571	Title: Engineer Scope: Mechanical
Phone: 951-943-5393	

IDENTI

Project Name: 04-121999 - 36x40 - CONC FLR - WALL HVAC | **Date Prepared:** 2023-07-17

A. General Information

1	Project Name	04-121999 - 36x40 - CONC FLR - WALL 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)	75
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 (ft²)	1440	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	1440	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 (Uncondtioned) 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	292.9	292.9	20.07
Proposed Design	286.71	286.71	19.69
Compliance Margins	**6.19**	**6.19**	**0.38**
	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	10.6	6.81	3.79
Space Cooling	150.25	156.03	-5.78
Indoor Fans	68.71	69.74	-1.03
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	31.12	31.31	-0.19
Indoor Lighting	32.22	22.82	9.4
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**292.9**	**286.71**	**6.19 (2.1%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**292.9**	**286.71**	**6.19 (2.1%)**

[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)[1]
Receptacle	66.69	66.69	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**359.59**	**353.4**	**6.19 (1.7%)**

[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	1.51	0.93	0.58
Space Cooling	7.29	7.43	-0.14
Indoor Fans	5.48	6.29	-0.81
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	3.22	3.22	0
Indoor Lighting	2.57	1.82	0.75
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**20.07**	**19.69**	**0.38 (1.9%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**20.07**	**19.69**	**0.38 (1.9%)**

[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)	**24.99**	**24.61**	**0.38 (1.5%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ADOPE 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	0.4	0.3	0.1	---	---	---
Space Cooling	6.6	6.8	-0.2	---	---	---
Indoor Fans	3.4	3.6	-0.2	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	1.8	1.8	0	---	---	---
Indoor Lighting	1.8	1.3	0.5	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**14**	**13.8**	**0.2**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**14**	**13.8**	**0.2**	**0**	**0**	**0**
Receptacle	3.8	3.8	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**17.8**	**17.6**	**0.2**	**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]	42.18	41.7	0.48	1.14
NET EUI[1]	42.18	41.7	0.48	1.14

[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 Zone requirements are installed in the proposed design as well. 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.

E1. 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]	440	0	0
East-Facing[2]	414	64	15.46
South-Facing[3]	440	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).

E1. 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]	378	32	8.47
Total	**1672**	**96**	**5.74**
Roof	1440	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).

E4. 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	1,672	Wood	19	N/A	N/A	U-factor	0.0619	Wood siding - 1/2 in. Vapor seal - plastic film - 1/16 in. 2C - 2x6 WD STUD WALL @ 16 OA OC Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
SCI MTL ROOF	Roof	1,440	Metal	30	N/A	N/A	U-factor	0.0354	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 - R11	Exterior Floor	1,440	Metal	11	N/A	N/A	U-factor	0.0656	Vented Crawl Space SCI - CONC FLOOR JOISTS R-11 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	42	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 Model	05 Area (ft²)	06 Overall U-factor	07 Overall SHGC	08 Overall VT	09 Status[2]
#NT-A-73-00213-00011	Vertical fenestration Operable window N/A	NFRC	Site built	96	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. DRY 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 Package VHP Air System	1	52.5	0	COP	3.3	54.5	EER	11	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 CFM	05 Supply Fan Power	06 Supply Fan Power Units	07 Supply Fan Control	08 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	540	1,750	0.75	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 140.4(o)[1]	04 Other Special Features and Controls
AirSystem 101	Single Package VHP 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)	36	540	0	1440	DCV

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Rated Capacity (kBtu/h) Heating	05 Rated Capacity (kBtu/h) Cooling	06 Airflow (cfm) Design	07 Airflow (cfm) Min.	08 Min. Ratio	09 Fan Power	10 Fan Power Units	11 Fan Cycle	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	1440	612	0	0	0
Building Totals:	**1440**	**612**	**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, T32T8, 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	12	612

[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 match primary function of Table 140.6-A and 170.2-e)	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	3	153	0
Classroom 101	Classroom, Lecture, or Training Vocational	N/A	N/A	SCI - 2x4 LED	51	9	459	0
						Lighting Control Credits (Conditioned) Total (Watts):		0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

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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)

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Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
Mechanical	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.
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Company: SILVER CREEK	Signature Date:
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City/State/Zip: PERRIS , CA 92571	Title: Engineer — Scope: Lighting
Phone: 951-943-5393	

Responsible Designer Name: JOHN STARLIN	Responsible Designer Signature:
Company: SILVER CREEK	Date Signed:
Address: 2830 BARRETT AVE	License #: 2475
City/State/Zip: PERRIS , CA 92571	Title: Engineer — Scope: Mechanical
Phone: 951-943-5393	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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 W

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 1 of 18)

Project Name: 04-121999 - 36x40 - WD FLR - WALL HVAC | **Date Prepared:** 2023-07-18

A. General Information

1	Project Name	04-121999 - 36x40 - WD FLR - WALL 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_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	1440	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	1440	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 2 of 18)

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

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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	302.73	302.73	50.07
Proposed Design	239.24	239.24	31.01
Compliance Margins	**63.49**	**63.49**	**19.06**
	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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 4 of 18)

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	60.15	98.26	-38.11
Space Cooling	17.95	17.18	0.77
Indoor Fans	163.12	71.34	91.78
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	30.46	30.46	0
Indoor Lighting	31.05	22	9.05
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**302.73**	**239.24**	**63.49 (21%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**302.73**	**239.24**	**63.49 (21%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 5 of 18)

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)	**366.39**	**302.9**	**63.49 (17.3%)**

[1] Notes: This table is not used for Energy Code Compliance.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 6 of 18)

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	19.06	9.93	9.13
Space Cooling	1.21	1.14	0.07
Indoor Fans	16.26	7.15	9.11
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	10.97	10.97	0
Indoor Lighting	2.57	1.82	0.75
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**50.07**	**31.01**	**19.06 (38.1%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**50.07**	**31.01**	**19.06 (38.1%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

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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)	**54.99**	**35.93**	**19.06 (34.7%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ADOPE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

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Nonresidential Performance Compliance Method — (Page 8 of 18)

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	3.8	-3.6	29	---	---
Space Cooling	1.1	1.1	0	---	---	---
Indoor Fans	8.2	3.6	4.6	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	17.2	17.2	0
Indoor Lighting	1.8	1.3	0.5	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**11.3**	**9.8**	**1.5**	**46.2**	**17.2**	**29**
Photovoltaics	---	---	---	---	---	---
Batteries			---	---	---	---
ENERGY USE SUBTOTAL	**11.3**	**9.8**	**1.5**	**46.2**	**17.2**	**29**
Receptacle	3.8	3.8	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**15.1**	**13.6**	**1.5**	**46.2**	**17.2**	**29**

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C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	67.86	44.17	23.69	34.91
NET EUI[1]	67.86	44.17	23.69	34.91

[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 Zone requirements are satisfied via one net. 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.

E1. 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]	378	32	8.47
East-Facing[2]	440	0	0
South-Facing[3]	414	64	15.46

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).

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G1. 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	**1672**	**96**	**5.74**
Roof	1440	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" east 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

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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]
SCI PLYWD FLOOR	Exterior Floor	1,440	Metal	19	N/A	N/A	U-factor	0.0544	Vented Crawl Space SCI - STL JOIST FLOOR R-19 >16 OC Plywood - 1 in. Linoleum/cork tile - 1/4 in.	N
2x6 T111 WALL	Exterior Wall	1,672	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 R-19 16 OC Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
SCI MTL ROOF	Roof	1,440	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

[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	42	1.45	N

[1] Status: N - New, A – Altered, E – Existing

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G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01 Fenestration Assembly Name	02 Fenestration Type/ Product Type / Frame Type	03 Certification Method[2]	04 Assembly Model	05 Area (ft²)	06 Overall U-factor	07 Overall SHGC	08 Overall VT	09 Status[1]
#NT-A-73-00213-00011	Vertical fenestration Operable window N/A	NFRC	Site built	96	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. DRY 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 Package VHP Air System	1	52	0	COP	3.3	56	EER	11	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: CFM	05 Supply Fan: Power	06 Supply Fan: Power Units	07 Supply Fan: Control	08 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	540	1,650	0.67	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A – Altered, E – Existing

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

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H8. SYSTEM SPECIAL FEATURES

01 System Name	02 Equipment Type	03 Interlocks per §40.4(a)[1]	04 Other Special Features and Controls
AirSystem 101	Single Package VHP 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)	36	540	0	1440	DCV

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Rated Capacity (kBtu/h): Heating	05 Rated Capacity (kBtu/h): Cooling	06 Airflow (cfm): Design	07 Airflow (cfm): Min.	08 Min. Ratio	09 Fan: Power	10 Fan: Power Units	11 Cycles	12 VSD
TerminalUnit 101	Uncontrolled	1	N/A	N/A	1,650	N/A	0	N/A	N/A	N/A	☐

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Nonresidential Performance Compliance Method — (Page 14 of 18)

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	1440	612	0	0	0
Building Totals:	**1440**	**612**	**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, T32T8, 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	12	612

[1] If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

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Nonresidential Performance Compliance Method — (Page 15 of 18)

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 match primary functions of Table 140.6-A and 170.2-c)	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	3	153	0
Classroom 101	Classroom, Lecture, or Training Vocational	N/A	N/A	SCI - 2x4 LED	51	9	459	0
						Lighting Control Credits (Conditioned) Total (Watts):		0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

L. 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)

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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

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Nonresidential Performance Compliance Method — (Page 17 of 18)

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 building design features or system 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 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	Date Signed:
Address: 2830 BARRETT AVE	License #: 2475
City/State/Zip: PERRIS , CA 92571	Title: Engineer — Scope: Envelope
Phone: 951-943-5393	
Responsible Designer Name: JOHN STARLIN	Responsible Designer Signature:
Company: SILVER CREEK	Date Signed:
Address: 2830 BARRETT AVE	License #: 2475
City/State/Zip: PERRIS , CA 92571	Title: Engineer — Scope: Lighting
Phone: 951-943-5393	

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Responsible Designer Name: JOHN STARLIN	Responsible Designer Signature:
Company: SILVER CREEK	Date Signed:
Address: 2830 BARRETT AVE	License #: 2475
City/State/Zip: PERRIS , CA 92571	Title: Engineer — Scope: Mechanical
Phone: 951-943-5393	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

PRF FORMS
36x40 - ZONE 16
WORST CASE

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

Sil

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)
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)
Project Address:		Date Prepared: 2023-01-31T18:53:26-05:00

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.

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: 86563-0123-0005 Report Generated: 2023-01-31 15:53:28

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)
Project Address:		Date Prepared: 2023-01-31T18:53:26-05:00

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.		
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.	Yes	No
		●	○
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

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: 86563-0123-0005 Report Generated: 2023-01-31 15:53:28

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)
Project Address:		Date Prepared: 2023-01-31T18:53:26-05:00

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.

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: 86563-0123-0005 Report Generated: 2023-01-31 15:53:28

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)
Project Address:		Date Prepared: 2023-01-31T18:53:26-05:00

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.

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: 86563-0123-0005 Report Generated: 2023-01-31 15:53:28

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)
Project Address:		Date Prepared: 2023-01-31T18:53:26-05:00

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: 86563-0123-0005 Report Generated: 2023-01-31 15:53:28

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 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.*

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: 86563-0123-0006 Report Generated: 2023-01-31 15:54:00

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 2 of 4)
Project Address:		Date Prepared: 2023-01-31T18:53:58-05:00

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)2Hii/ 180.2(b)4Bvii.

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".*

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: 86563-0123-0006 Report Generated: 2023-01-31 15:54:00

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 3 of 4)
Project Address:		Date Prepared: 2023-01-31T18:53:58-05:00

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.

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: 86563-0123-0006 Report Generated: 2023-01-31 15:54:00

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

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: 86563-0123-0006 Report Generated: 2023-01-31 15:54:00

CERTIFICATE OF COMPLIANCE, ELECTRICAL POWER DISTRIBUTION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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.
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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

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: 01-121999 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)4Biv 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)4Bv												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 Allowance 140.7(d2) / 170.2(e)6 (See Table K)	+	Ornamental Allowance 140.7(d2) / 170.2(e)6 (See Table L)	+	Per Specific Area Allowance 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, 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
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 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)
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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-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.

	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)	
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/ft 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"

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: 02-16-2023
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.
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 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-SAB 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: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

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. 01-121999 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 STARIN 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 5 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(j)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.

Project Name:	40- PC-PV	Report Page: (Page 1 of 5)
Project Address:		Date Prepared: 2023-02-17T18:05:07-05:00

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)	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.

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)		Required Minimum DC Power Rating (Watts)	Designed DC Power Rating (Watts)		Required Minimum Solar Savings Fraction	Designed/Rated Solar Savings Fraction		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.

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.

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.

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 1 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

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

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(j)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.

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.

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 L.
☐	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).

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)		Required Minimum DC Power Rating (Watts)	Designed DC Power Rating (Watts)		Required Minimum Solar Savings Fraction	Designed/Rated Solar Savings Fraction		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.

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
					Potential Solar Zone Areas: Roof areas with >= 70% Solar Access				
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(ft)) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones[1]	Low-Sloped Area (<= 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch) Oriented 90° - 300 ° (ft²)	Total Potential Solar Zone Area (ft²)	Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum 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

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SAB-E
Project Name:	40- PC-Solar Ready	Report Page: (Page 5 of 7)
Project Address:		Date Prepared: 2023-02-17T18:06:54-05:00

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.

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SAB-E
Project Name:	40- PC-Solar Ready	Report Page: (Page 6 of 7)
Project Address:		Date Prepared: 2023-02-17T18:06:54-05:00

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	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.

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

CERTIFICATE OF COMPLIANCE, SOLAR & BATTERY - SOLAR READY AREAS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

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: 01-121999 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

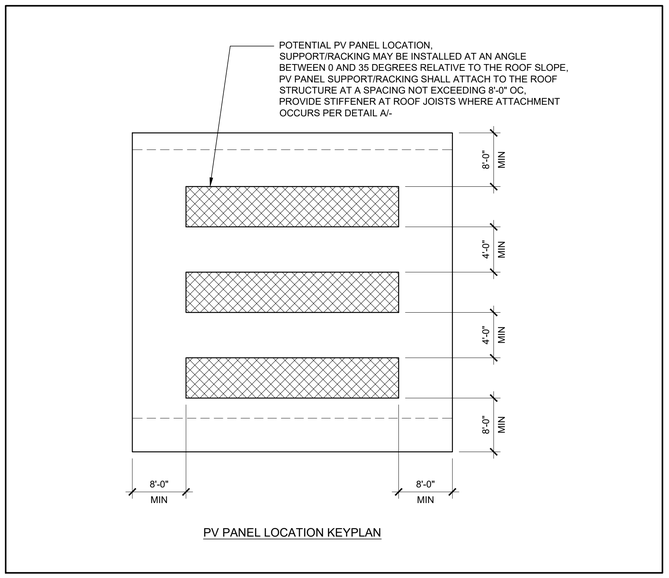
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

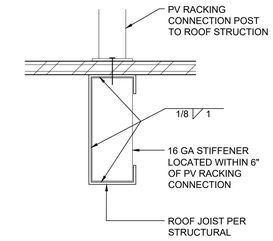
A-0.6C

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 CRI/GREEN LABEL VACUUM CLEANER PROGRAM REQUIREMENTS AT COMPLETION OF CONSTRUCTION AND PRIOR TO OCCUPANCY.

OUTDOOR AIR QUALITY

HVAC, REFRIGERATION AND FIRE SUPPRESSION SYSTEMS SHALL NOT CONTAIN CFCs OR HALONS.

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.

ACOUSTICAL CONTROL

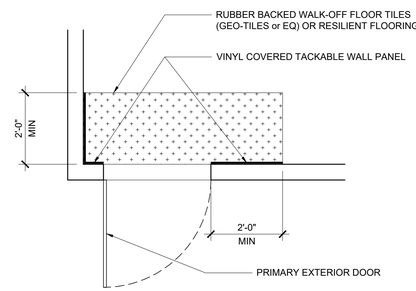
INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. ONE OF THE FOLLOWING ASSEMBLY SHALL BE USED:

☐ 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: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

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

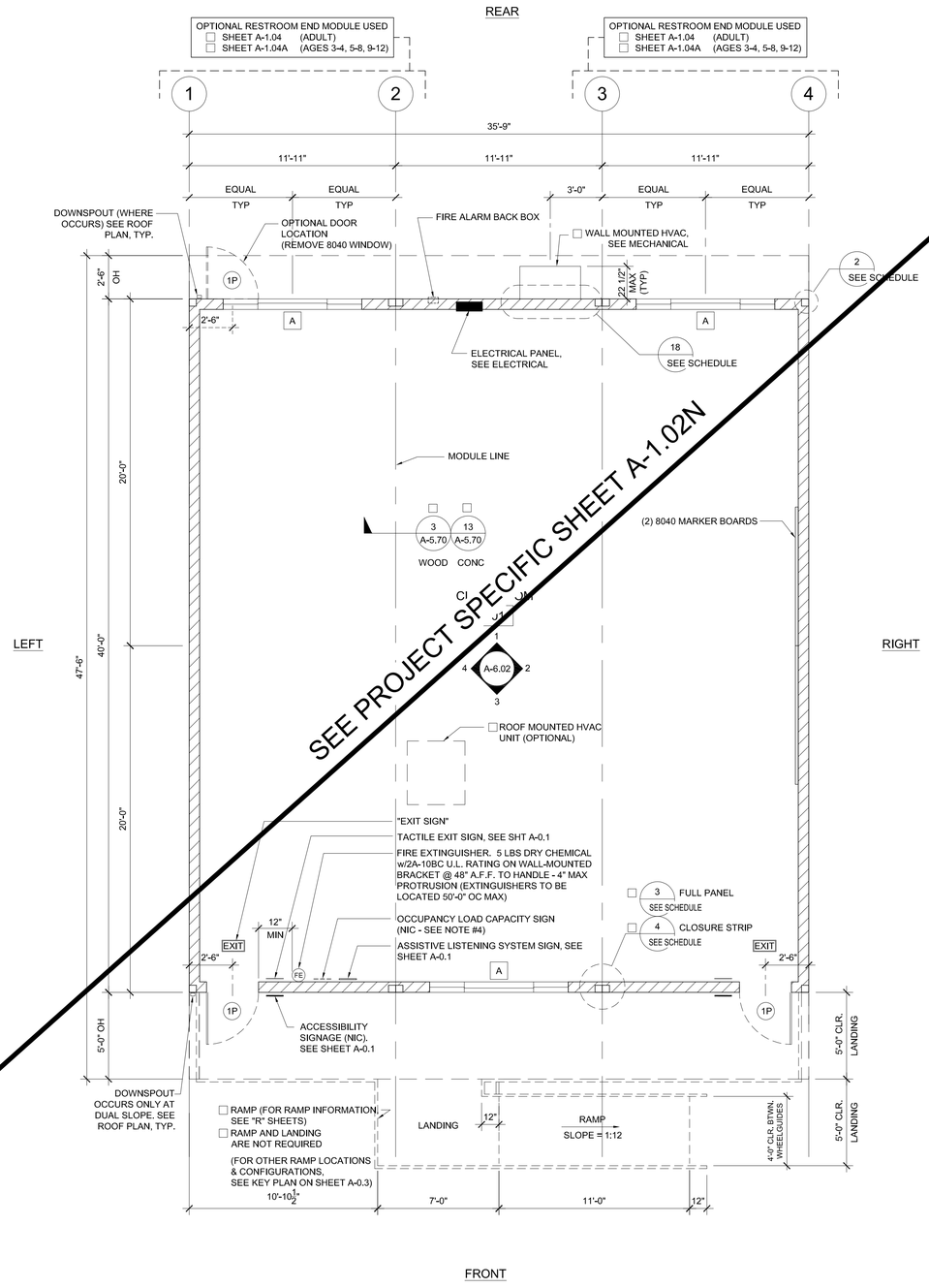
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121999 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REG



FRONT

SEE PROJECT SPECIFIC SHEET A-1.02N

FLOOR PLAN

SCALE: 1/4" = 1'-0" | 1

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.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

FLOOR PLAN
36' 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: 01-121999 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

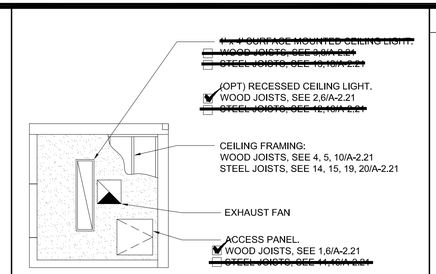
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUK
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

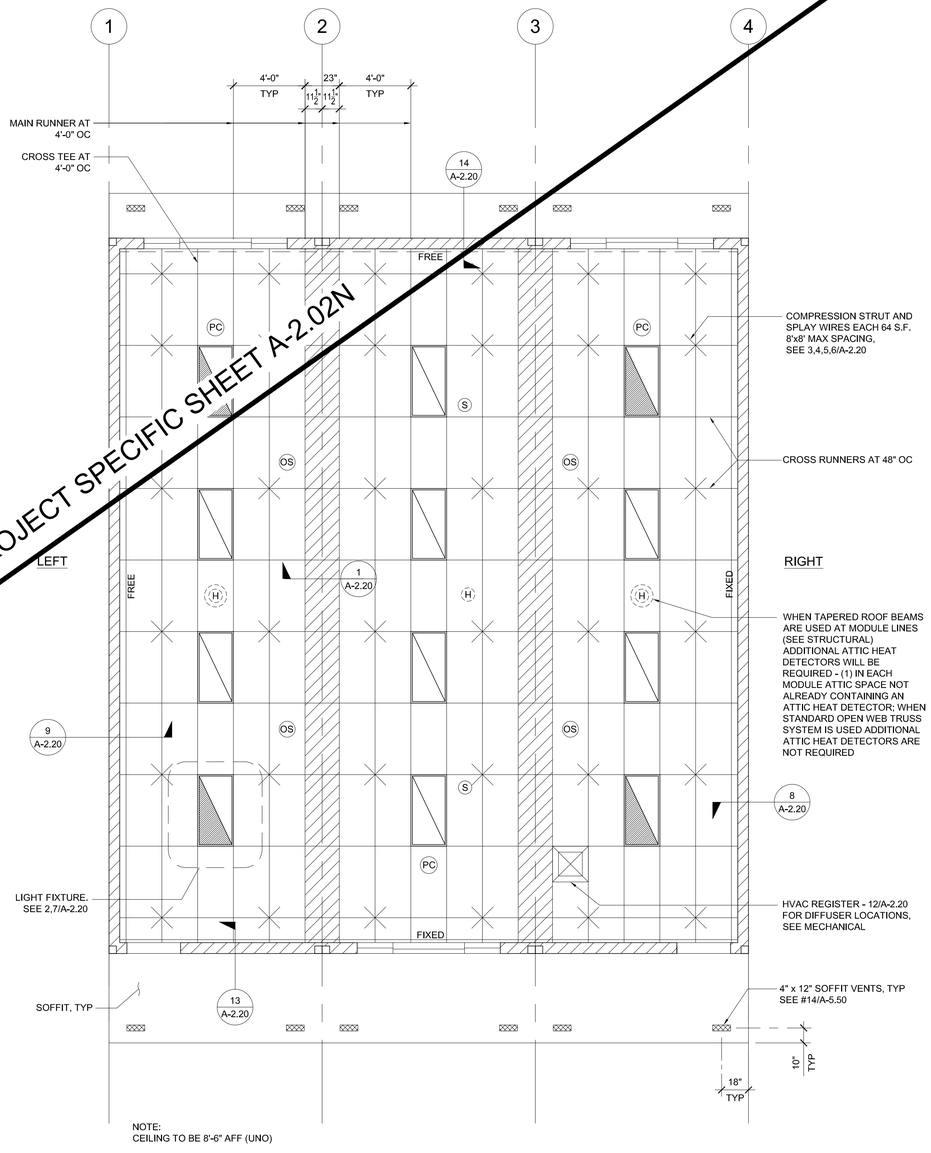
P.C. SHEET NUMBER

A-1.02



HARDLID CEILING (OPTIONAL) SCALE: 1/4" = 1'-0" | 1A

REAR



FRONT

REFLECTED CEILING PLAN SCALE: 1/4" = 1'-0" | 1

SEE PROJECT SPECIFIC SHEET A-2.02N

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)

IDENTIFICATION STAMP
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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

REFLECTED CEILING PLAN
36' x 40'

REVISIONS

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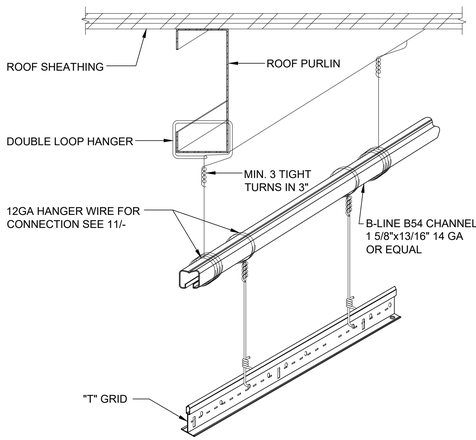
REGISTERED PROFESSIONAL ENGINEER JOHN W STANKUS 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
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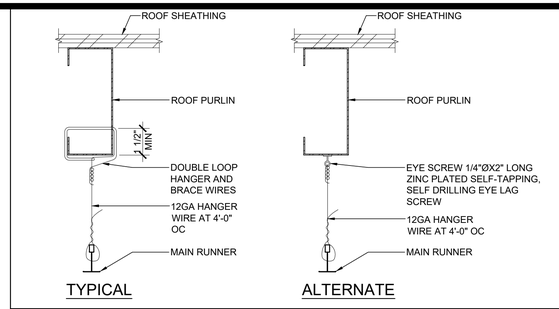
P.C. SHEET NUMBER

A-2.02

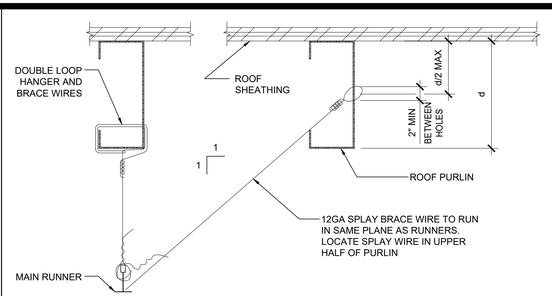


NOTE:
LOCATION MAY VARY (SEE NOTE "C" ON SHEET A-0.1)

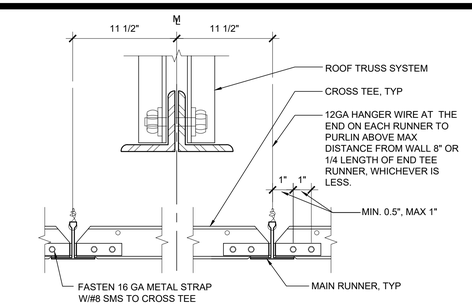
TRAPEZE DETAIL 17



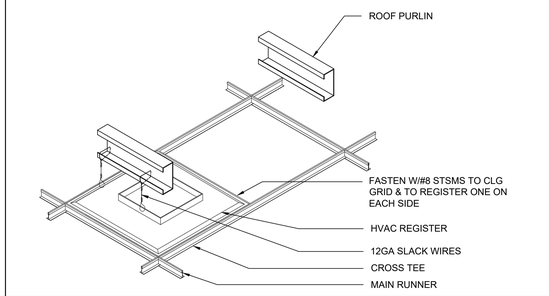
HANGER WIRE DETAIL SCALE : 3"=1'-0" 11



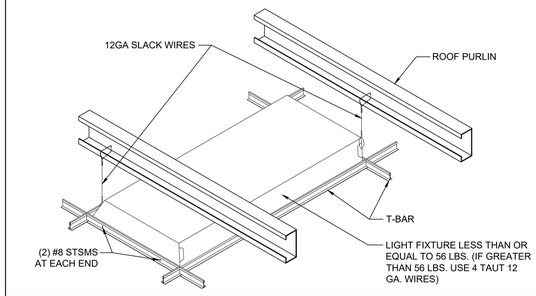
SPLAY BRACING WIRE SCALE : 3"=1'-0" 6



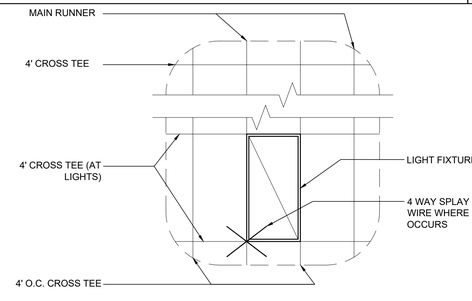
GRID AT MODLINE SCALE : 3"=1'-0" 1



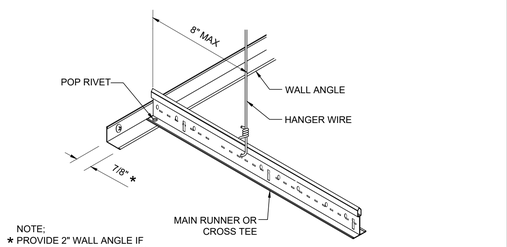
HVAC REGISTER MOUNTING SCALE : NTS 12



LIGHT FIXTURE MOUNTING SCALE : NTS 7

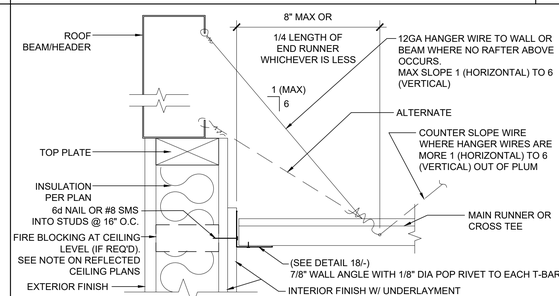


4' CROSS TEE AT LIGHTS SCALE : 3/8"=1'-0" 2

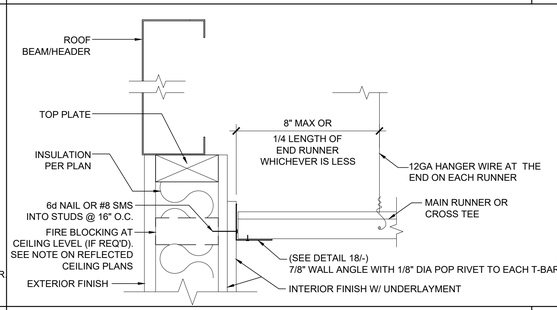


NOTE:
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED ON FREE SIDES

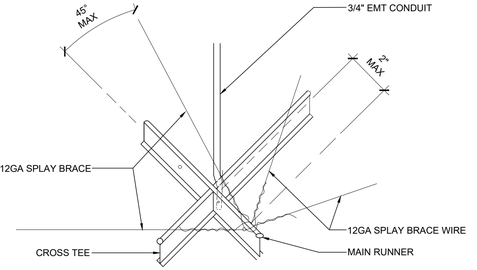
FIXED SIDE SCALE : NTS 18



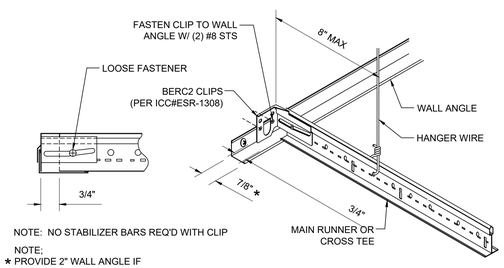
HANGER WIRE - FIXED SIDE (ENDWALL) SCALE : 3"=1'-0" 13



HANGER WIRE - FIXED SIDE (SIDEWALL) SCALE : 3"=1'-0" 8



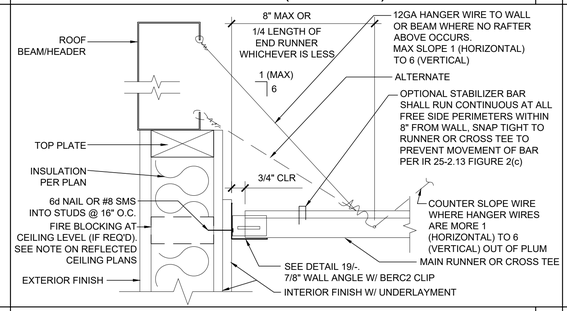
SEISMIC SPLAY - 4 WAY SCALE : NTS 3



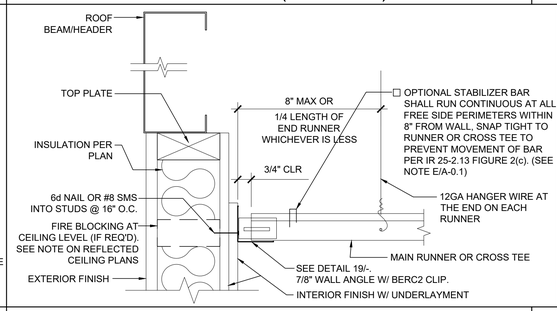
NOTE: NO STABILIZER BARS REQ'D WITH CLIP

NOTE;
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED

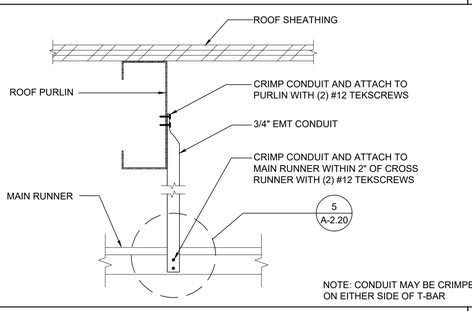
FREE SIDE SCALE : NTS 19



HANGER WIRE - FREE SIDE (ENDWALL) SCALE : 3"=1'-0" 14

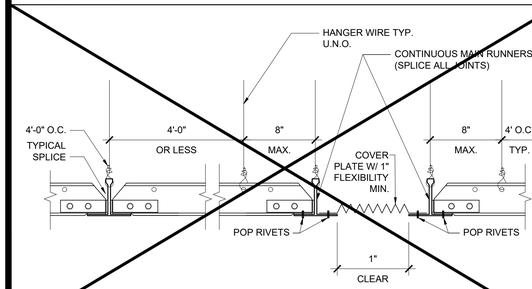


HANGER WIRE - FREE SIDE (SIDEWALL) SCALE : 3"=1'-0" 9

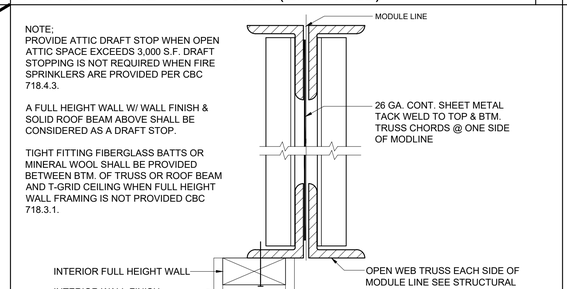


NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR

COMPRESSION STRUT SCALE : 3"=1'-0" 4



GRID SEISMIC SEPARATION JOINT SCALE : 3"=1'-0" 20

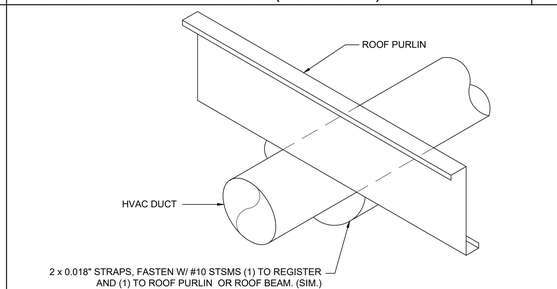


NOTE:
PROVIDE ATTIC DRAFT STOP WHEN OPEN ATTIC SPACE EXCEEDS 3,000 S.F. DRAFT STOPPING IS NOT REQUIRED WHEN FIRE SPRINKLERS ARE PROVIDED PER CBC 718.4.3.

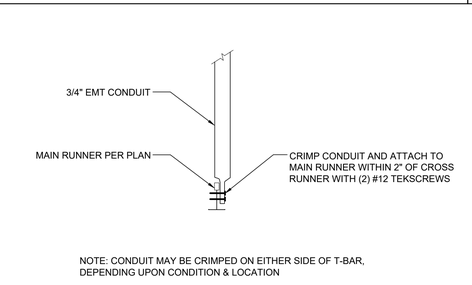
A FULL HEIGHT WALL W/ WALL FINISH & SOLID ROOF BEAM ABOVE SHALL BE CONSIDERED AS A DRAFT STOP.

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

CEILING DETAILS
T-GRID

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

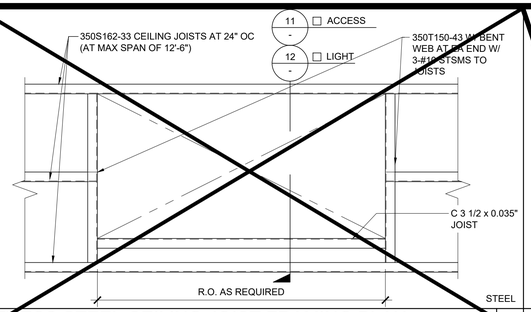
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

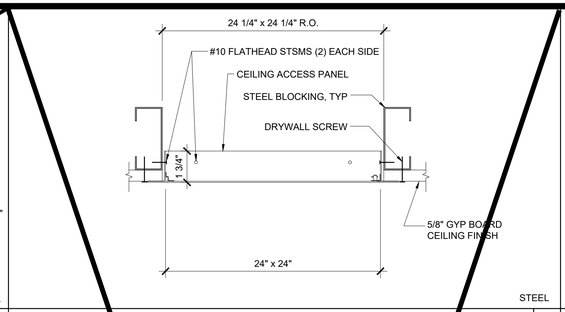
SILVER CREEK INDUSTRIES	24' x 40' PC
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

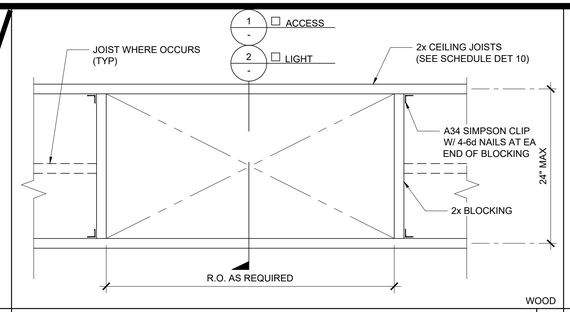
A-2.20



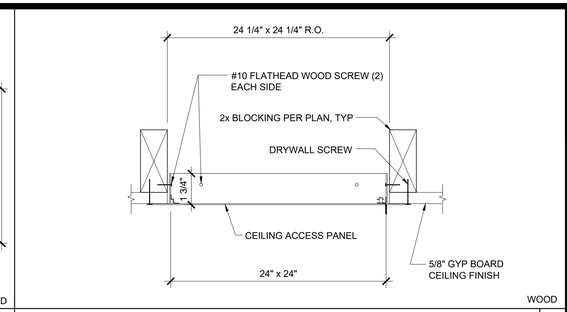
RECESS STEEL CEILING JOIST FRAMING PLAN SCALE : 1" = 1'-0" | 16



CEILING ACCESS PANEL - STEEL SCALE : 3" = 1'-0" | 11

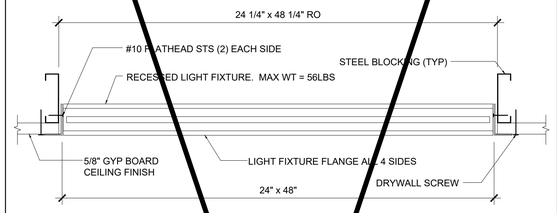


RECESS WOOD CEILING JOIST FRAMING PLAN SCALE : 1" = 1'-0" | 6



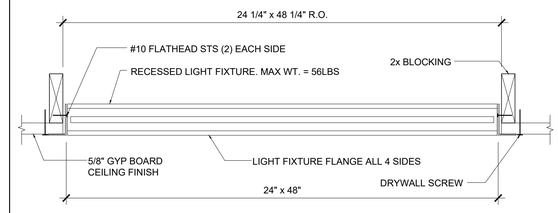
CEILING ACCESS PANEL SCALE : 3" = 1'-0" | 1

NOT USED | 17

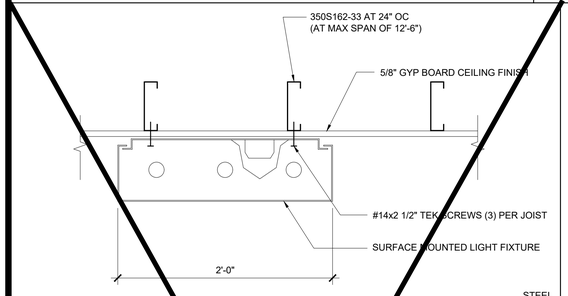


RECESSED LIGHT FIXTURE AT HARD LID SCALE : 1 1/2" = 1'-0" | 12

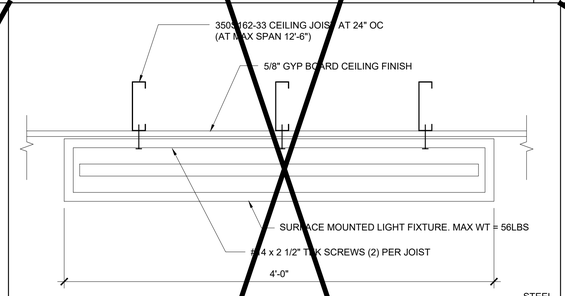
NOT USED | 7



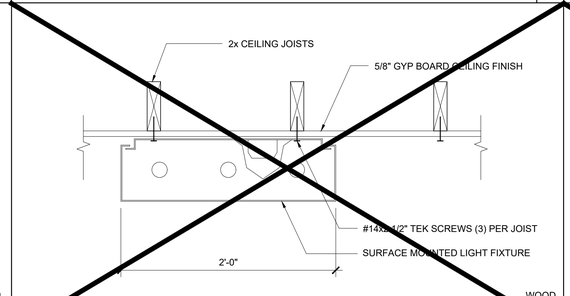
RECESSED LIGHT FIXTURE AT HARD LID SCALE : 1 1/2" = 1'-0" | 2



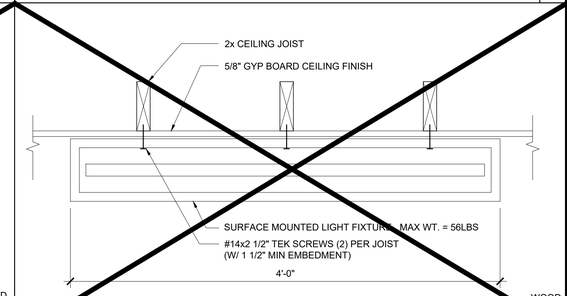
SURFACE MOUNTED LIGHT - PARALLEL JOISTS SCALE : 1 1/2" = 1'-0" | 18



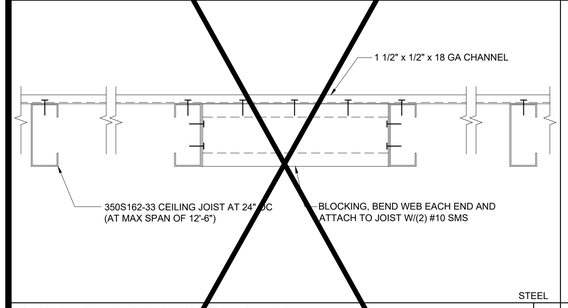
SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS SCALE : 1 1/2" = 1'-0" | 13



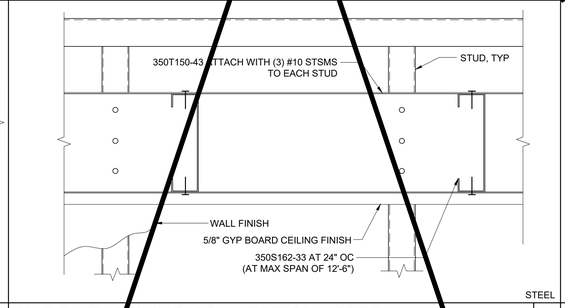
SURFACE MOUNTED LIGHT - PARALLEL JOISTS SCALE : 1 1/2" = 1'-0" | 8



SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS SCALE : 1 1/2" = 1'-0" | 3

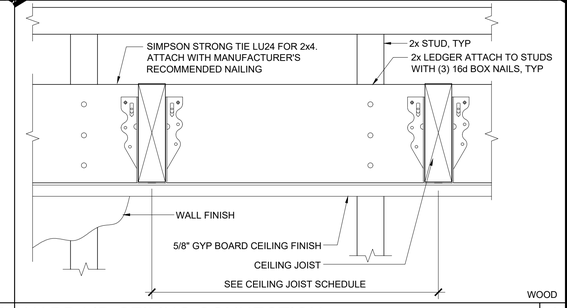


CEILING JOIST BLOCKING - STEEL SCALE : 3" = 1'-0" | 19

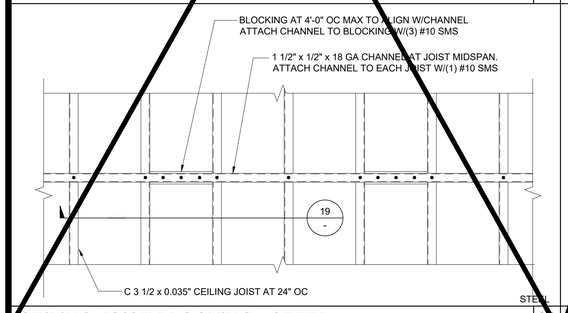


HARD LID CEILING CONNECTION - STEEL SCALE : 3" = 1'-0" | 14

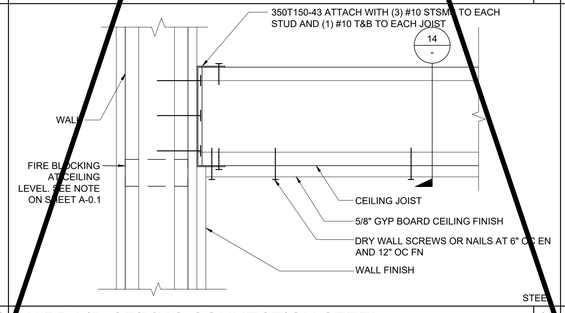
NOT USED | 9



HARD LID CEILING CONNECTION SCALE : 3" = 1'-0" | 4



CEILING JOIST BLOCKING - STEEL SCALE : 1" = 1'-0" | 20

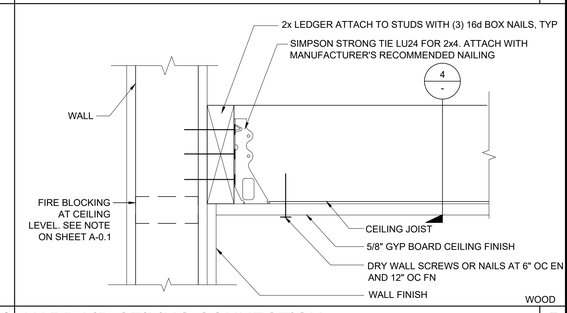


HARD LID CEILING CONNECTION STEEL SCALE : 3" = 1'-0" | 15

2X4 JOIST TABLE - MAX SPAN

SPACING	HEMFIR STUD	HEMFIR NO 2	HEMFIR NO 1	DFL STUD	DFL NO. 2
12" OC	11' - 3"	11' - 7"	12' - 2"	11' - 10"	12' - 5"
16" OC	10' - 3"	10' - 6"	11' - 0"	10' - 9"	11' - 3"
24" OC	8' - 11"	9' - 2"	9' - 8"	9' - 5"	9' - 10"

WOOD CEILING JOIST SCHEDULE SCALE : NTS | 10



HARD LID CEILING CONNECTION SCALE : 3" = 1'-0" | 5

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DATE: 1/23/2026

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

CEILING DETAILS
HARD LID

REVISIONS

1
2
3
4
5

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APP: 01-121999 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

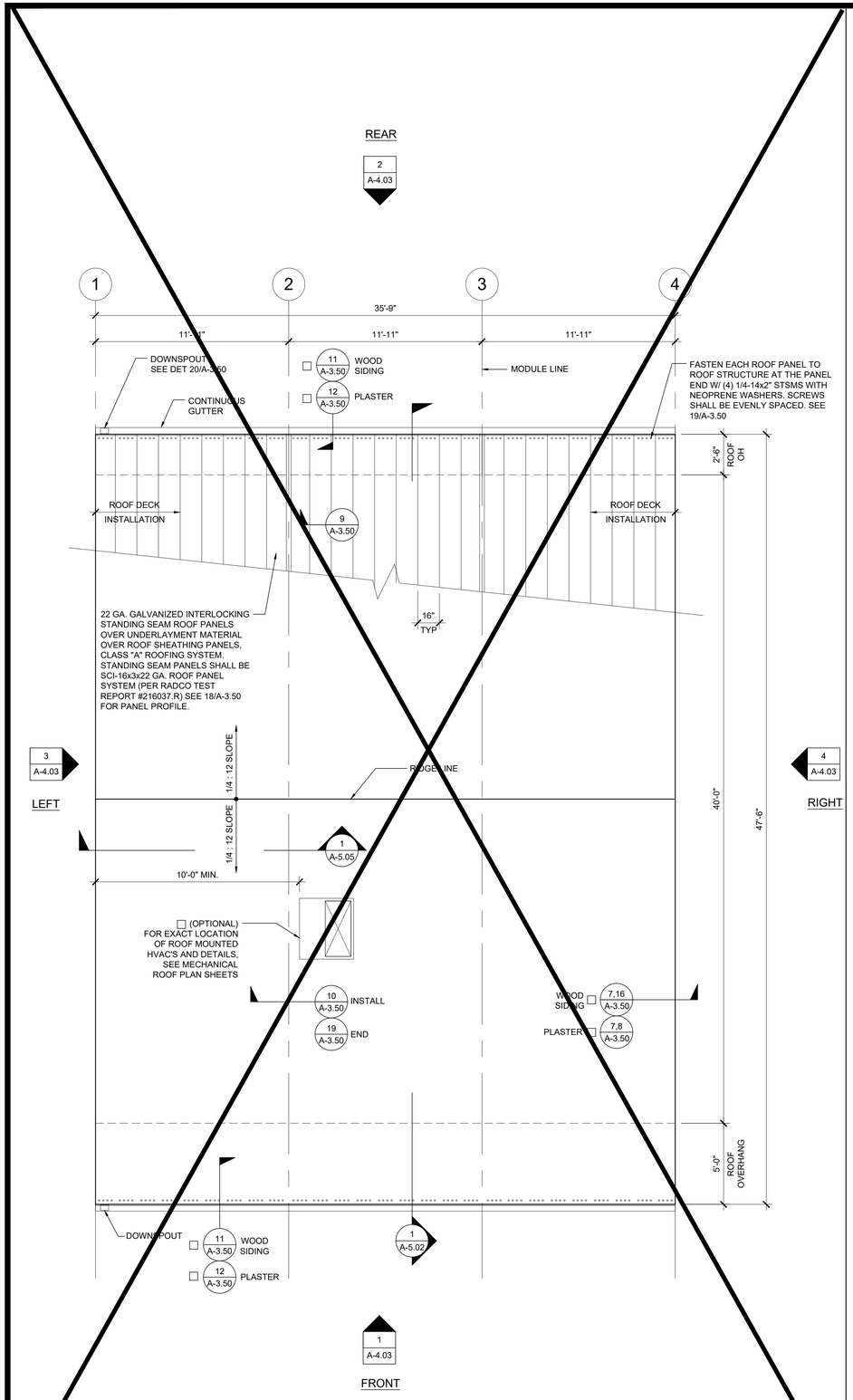
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

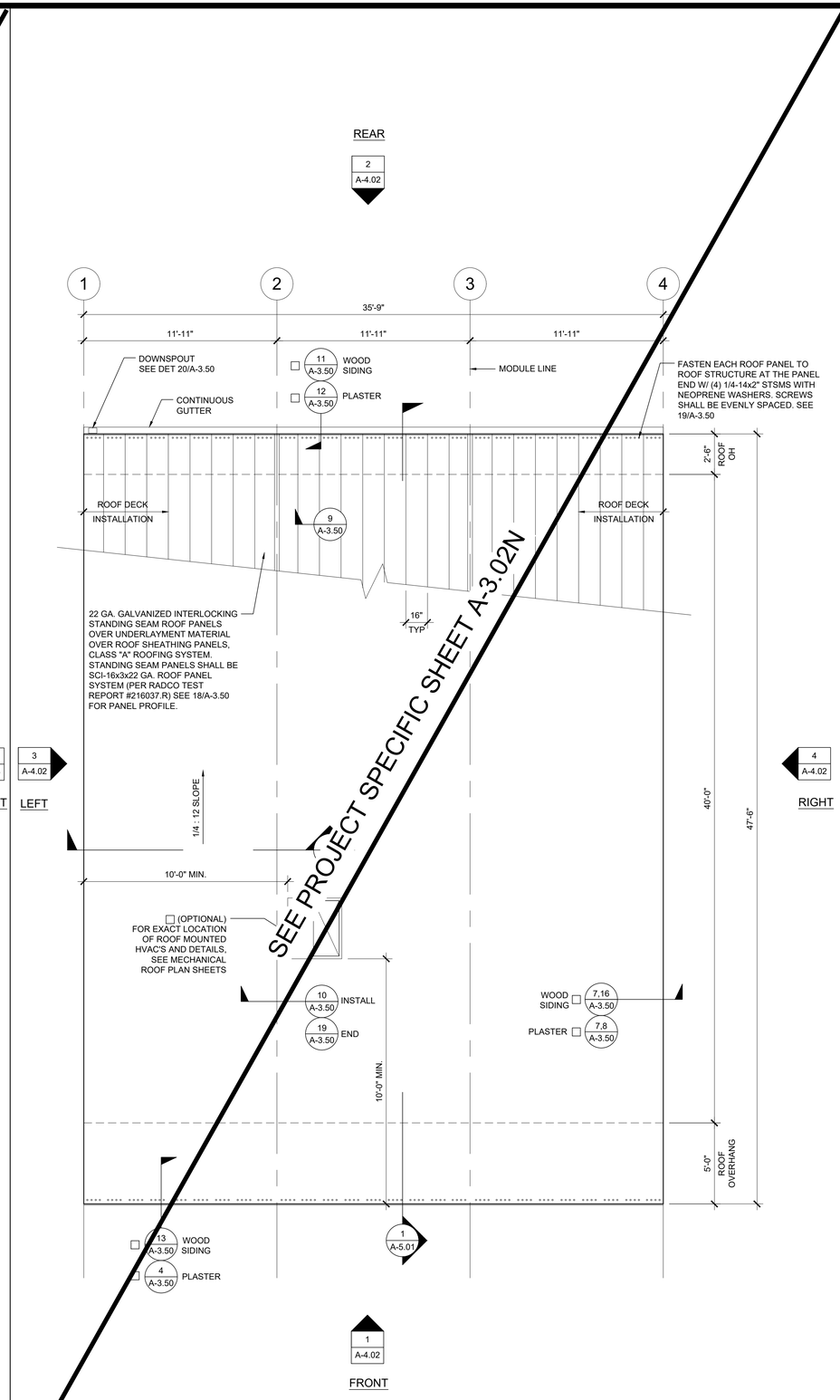
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-2.21



ROOF PLAN - METAL DECK - DUAL SLOPE SCALE: 1/4" = 1'-0" 2

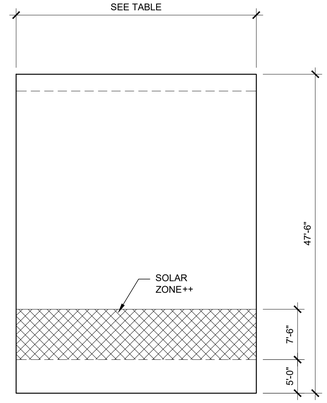


ROOF PLAN - METAL DECK - MONO SLOPE SCALE: 1/4" = 1'-0" 1

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

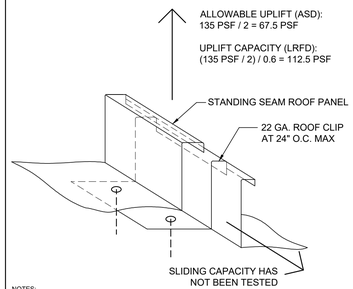
SOLAR ZONE



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).

ROOF SYSTEM CAPACITY SCALE: NTS A

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ROOF PLAN
36' x 40' - METAL DECK
MONO OR DUAL SLOPE

REVISIONS

1
2
3
4
5

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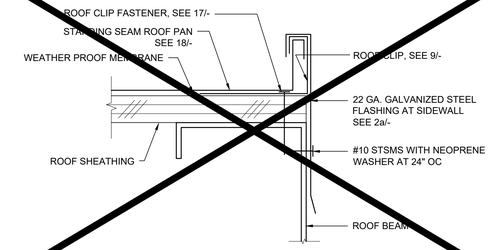
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

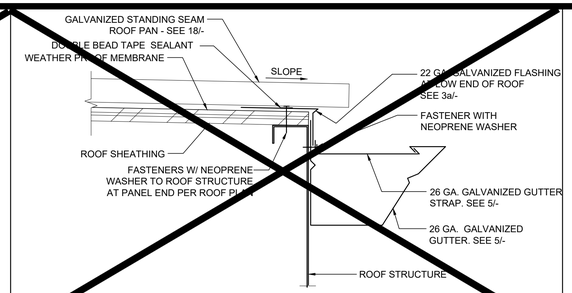
P.C. SHEET NUMBER

A-3.02



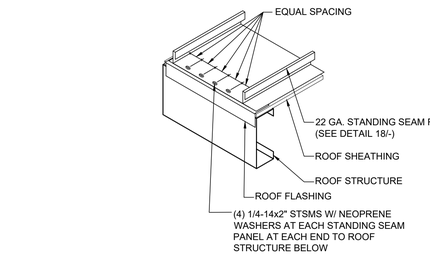
REF: A3.01, A3.02, A3.03, A3.04

ROOF FLASHING AT SIDEWALL — SCALE : 6"=1'-0" — 16



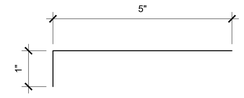
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GUTTER AT ROOF FASCIA BEAM — SCALE : 3"=1'-0" — 11



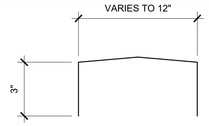
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STANDING SEAM PANEL AT ENDS — SCALE : NTS — 6



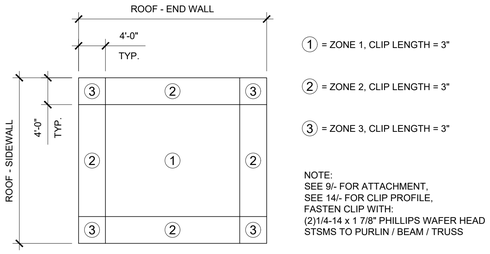
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FLASHING AT MODULE LINE WALL — SCALE : 6"=1'-0" — 1a



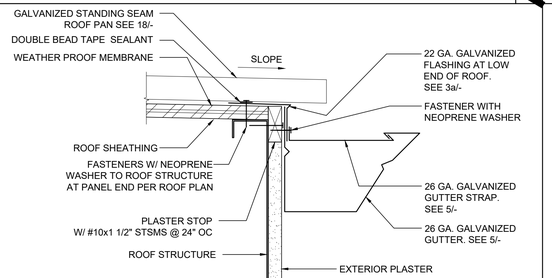
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0.018" ROOF CAP AT MODULE LINE — SCALE : 6"=1'-0" — 1b



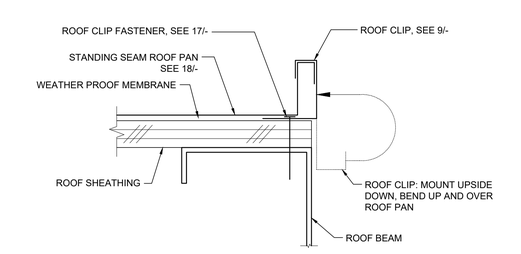
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ROOF CLIP ZONES — NTS — 17



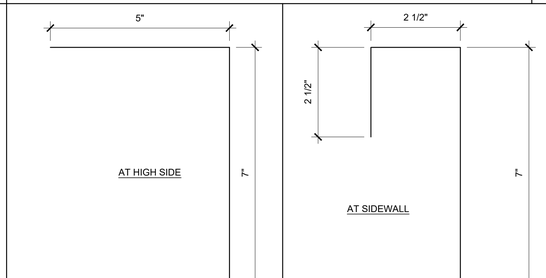
REF: A3.01, A3.02, A3.03, A3.04

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

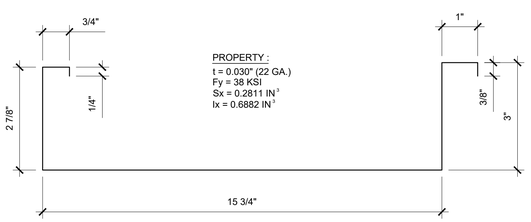


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ROOF FLASHING — SCALE : 6"=1'-0" — 2b

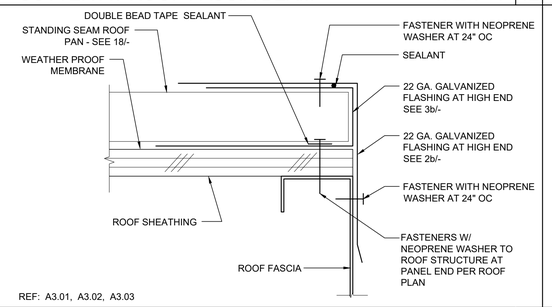
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ROOF FLASHING — SCALE : 6"=1'-0" — 2a



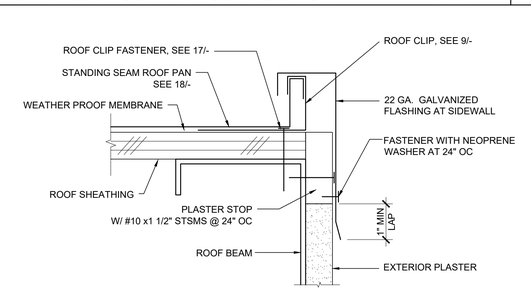
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ROOF DECK PROFILE — SCALE : NTS — 18



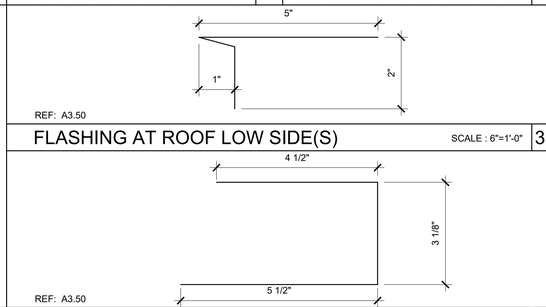
REF: A3.01, A3.02, A3.03

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

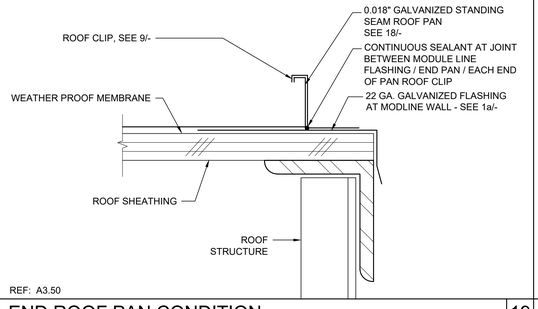


REF: A3.50

FLASHING AT ROOF LOW SIDE(S) — SCALE : 6"=1'-0" — 3a

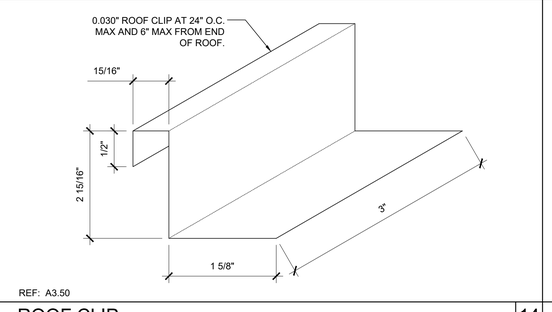
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FLASHING AT ROOF HIGH SIDE — SCALE : 6"=1'-0" — 3b



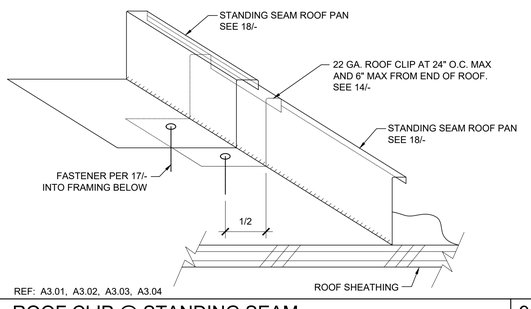
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END ROOF PAN CONDITION — SCALE : 6"=1'-0" — 19



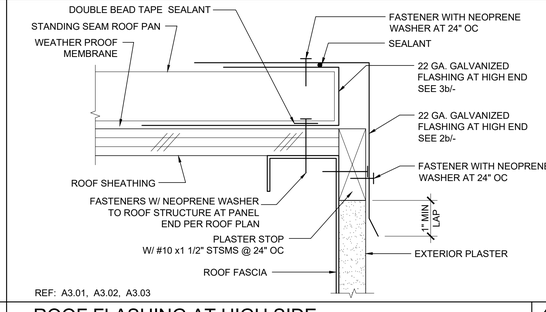
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ROOF CLIP — SCALE : 1'-0"=1'-0" — 14



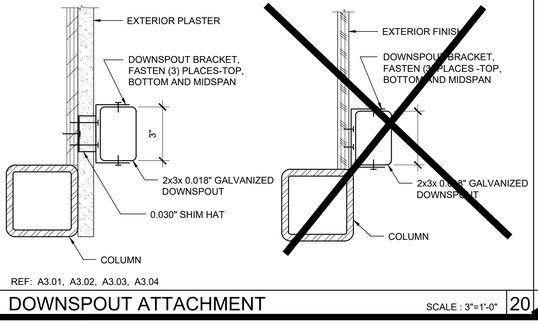
REF: A3.01, A3.02, A3.03, A3.04

ROOF CLIP @ STANDING SEAM — SCALE : NTS — 9



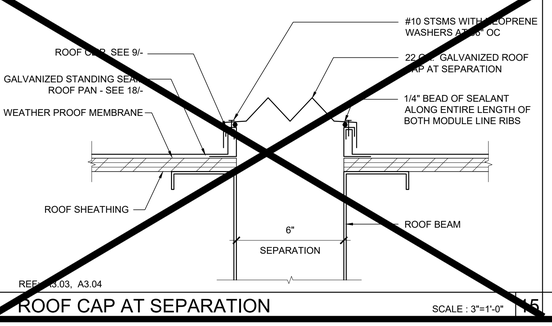
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ROOF FLASHING AT HIGH SIDE — SCALE : 6"=1'-0" — 4



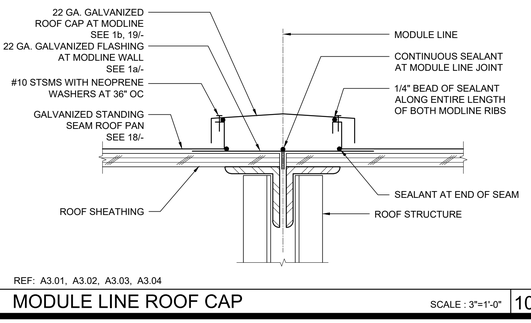
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DOWNSPOUT ATTACHMENT — SCALE : 3"=1'-0" — 20



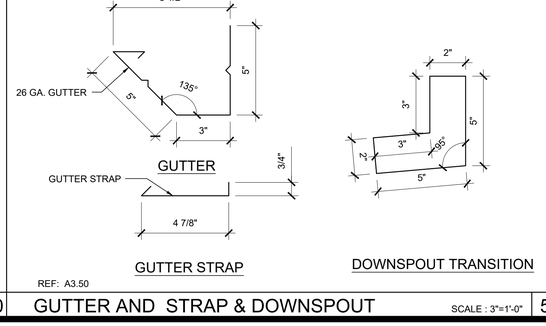
REF: A3.03, A3.04

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ROOF DETAILS
STANDING SEAM
ROOF DECK

REVISIONS

1
2
3
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5

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

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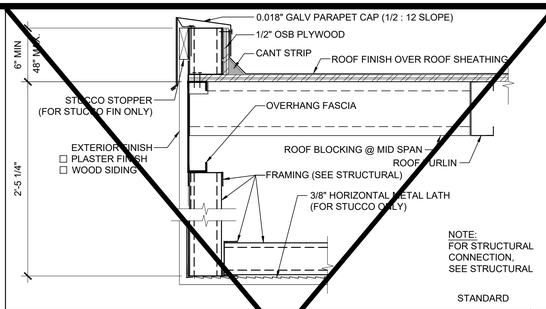
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24175
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

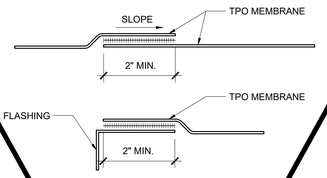
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SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

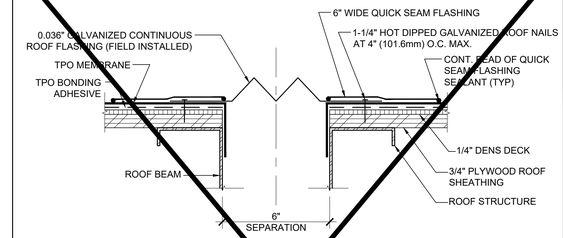
A-3.50



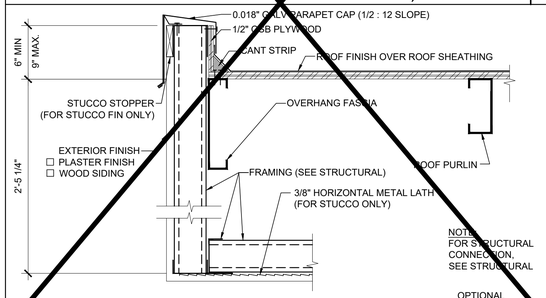
FRONT PARAPET SECTION (STEEL FRAME) SCALE : 1 1/2" = 1'-0" | 11



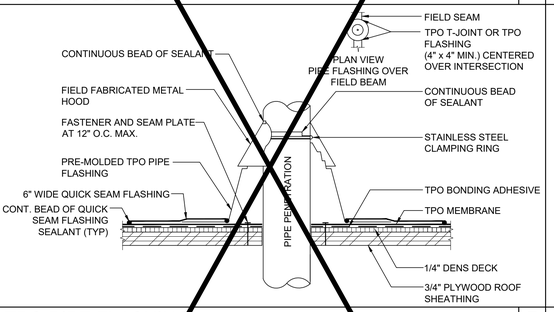
TPO LAP SPLICE SCALE : 6" = 1'-0" | 6



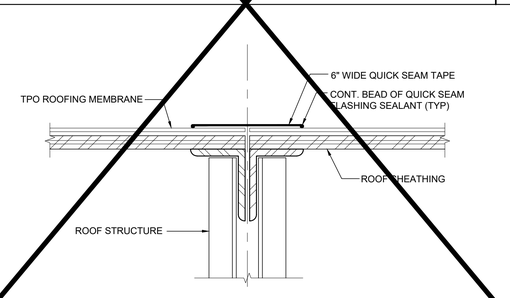
TPO ROOF AT SEPARATION SCALE : 3"=1'-0" | 1



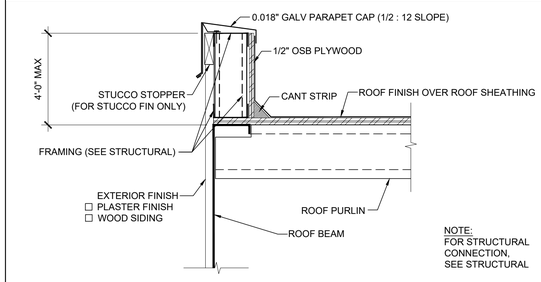
FRONT PARAPET SECTION (STEEL FRAME) SCALE : 1 1/2" = 1'-0" | 12



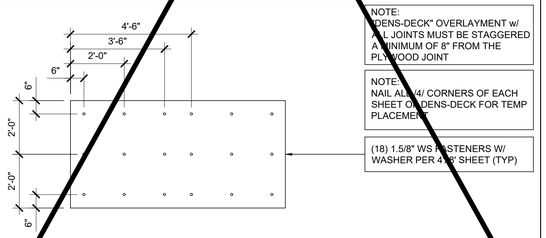
TPO PIPE FLASHING SCALE : 3" = 1'-0" | 7



TPO ROOF AT MODLINE SCALE : 3"=1'-0" | 2



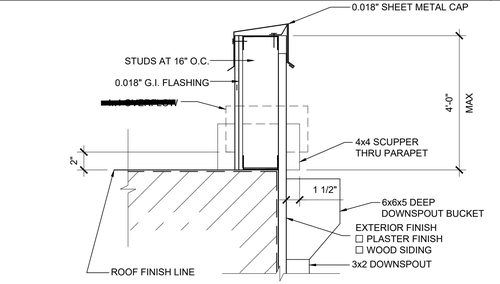
SIDEWALL PARAPET SECTION (STEEL FRAME) SCALE : 1 1/2" = 1'-0" | 13



18 FASTENERS PER BOARD

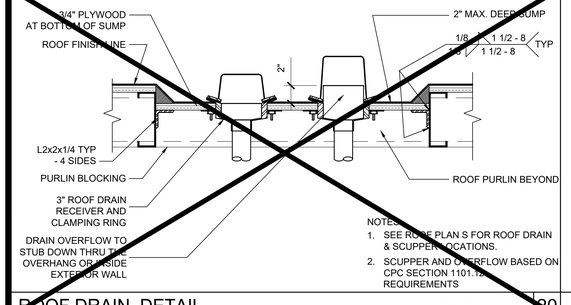
FM RC 1-90 WIND UPLIFT / (18) FASTENERS PER 4' x 8' BOARD

DENS-DECK FASTENING DIAGRAM SCALE : NTS | 8

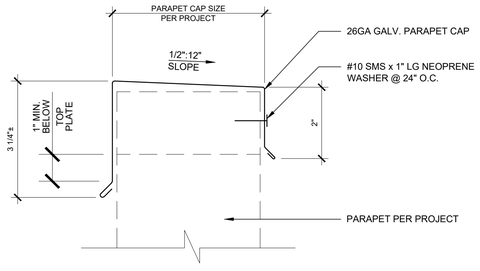


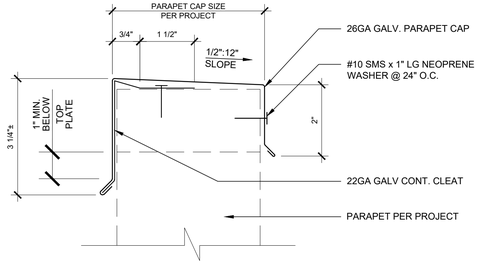
PARAPET DETAIL SCALE: 1 1/2"=1'-0" | 3

19



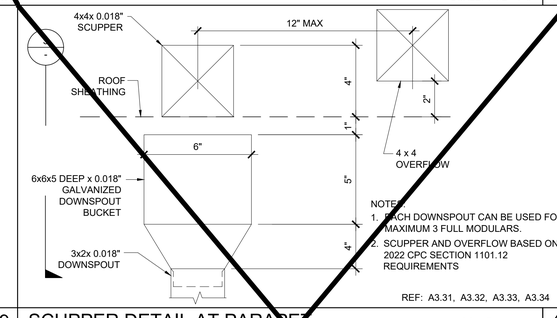
ROOF DRAIN DETAIL SCALE : 1 1/2" = 1'-0" | 20





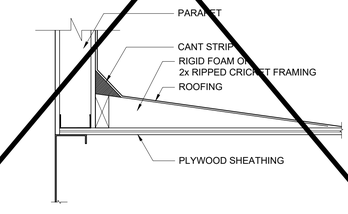
PARAPET CAP DETAIL SCALE : 1 1/2" = 1'-0" | 15

9



REF: A3.31, A3.32, A3.33, A3.34

SCUPPER DETAIL AT PARAPET SCALE : 3"=1'-0" | 4



REF: A3.31, A3.32, A3.33, A3.34

10 SECTION AT CRICKET SCALE : 1 1/2" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ROOF DETAILS
PARAPET

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
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DIV. OF THE STATE ARCHITECT
APP: 01-121999 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

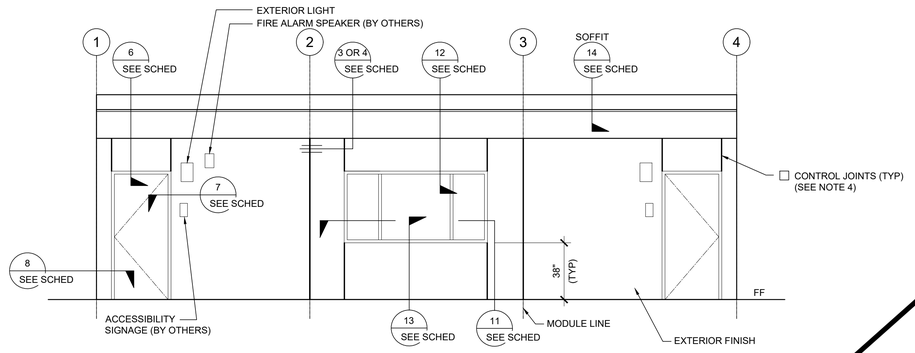
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24575
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

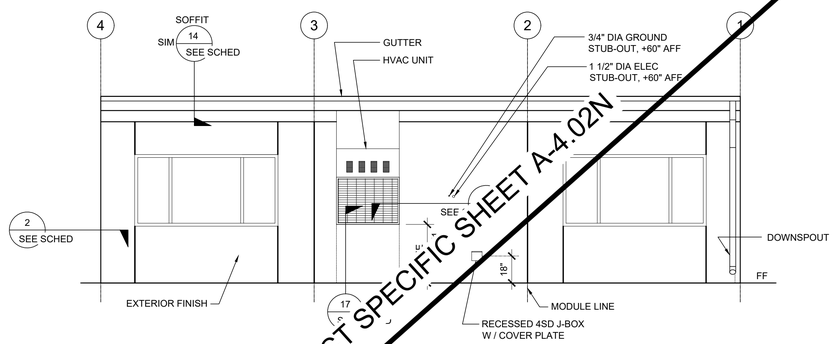
P.C. SHEET NUMBER

A-3.80



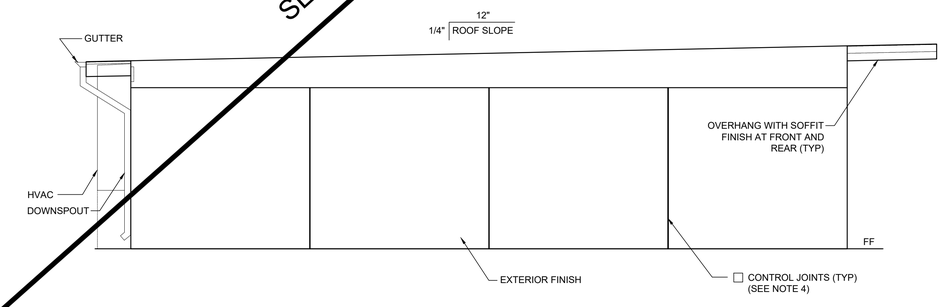
EXTERIOR ELEVATIONS - FRONT - MONO SLOPE

SCALE: 1/4" = 1' - 0" | 1



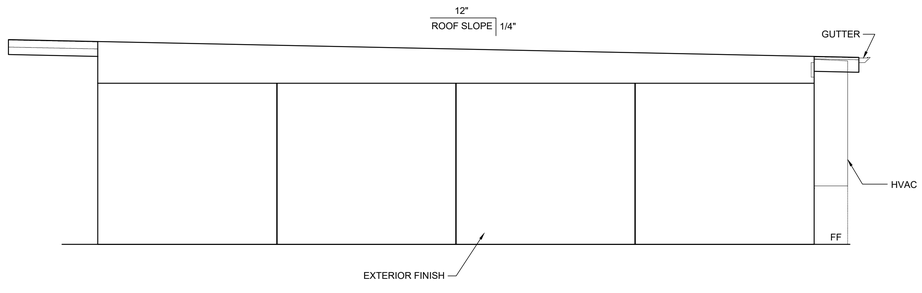
EXTERIOR ELEVATIONS - REAR - MONO SLOPE

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

SEE PROJECT SPECIFIC SHEET A-4.02N

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

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: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

EXTERIOR ELEVATION
36' X 40'
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
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-4.02

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

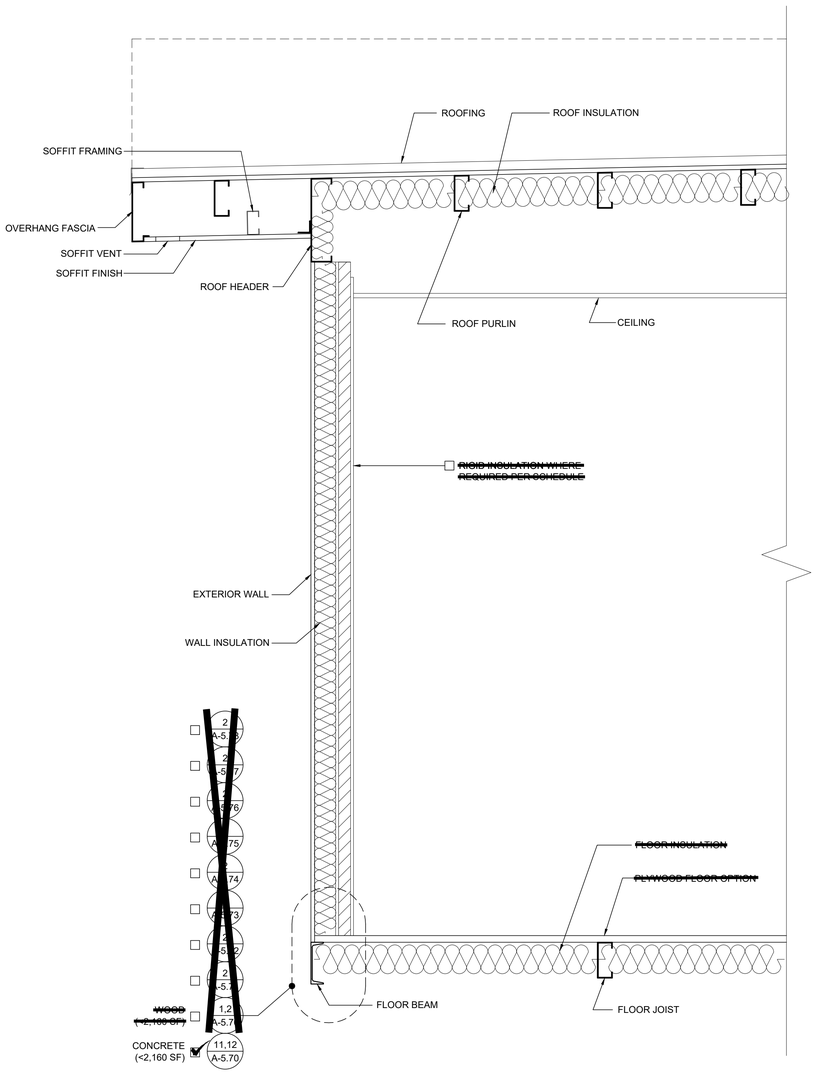
FINISH:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

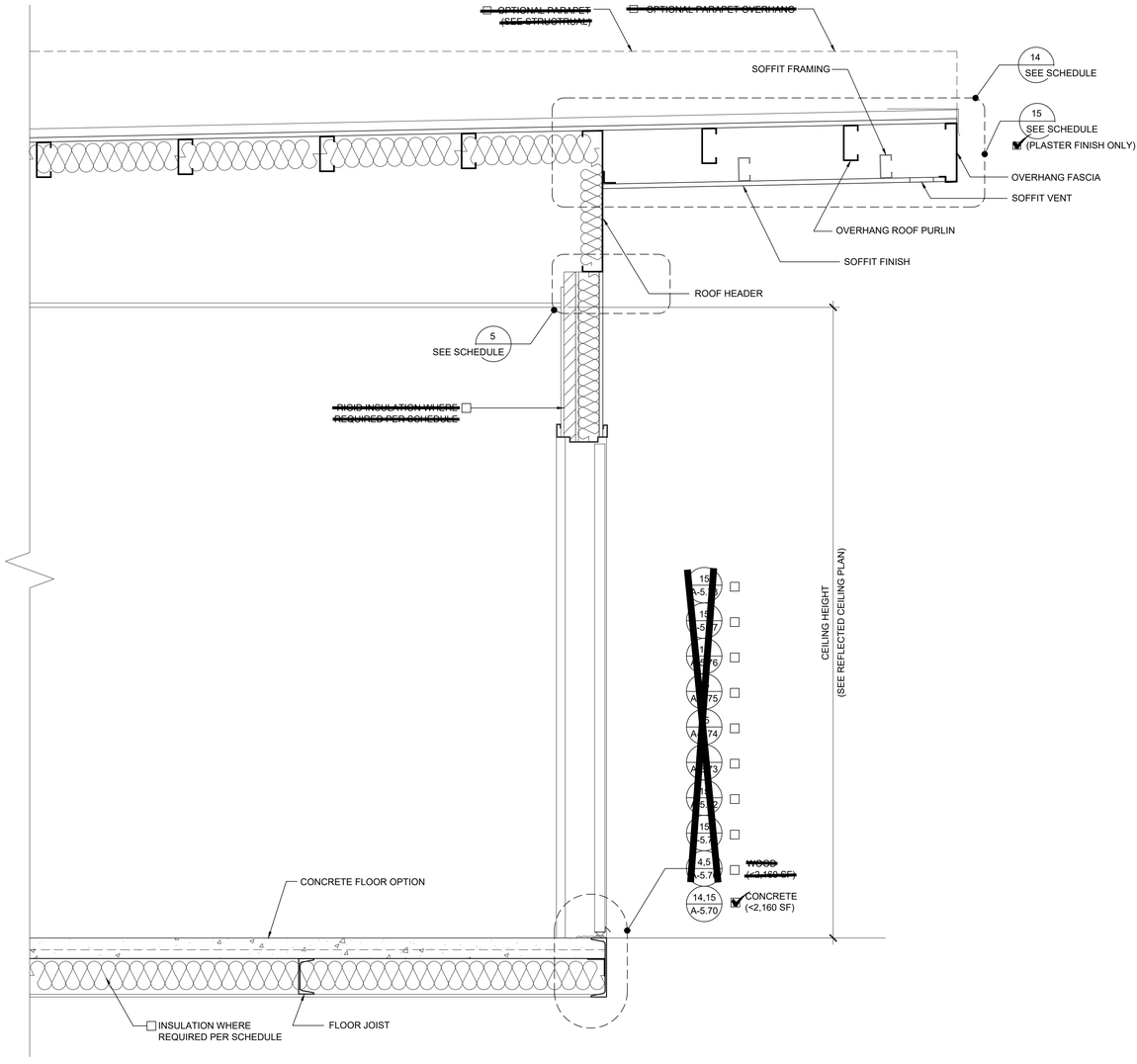
FLOOR OPTION

- ☐ 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: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

CROSS SECTION
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: 01-121999 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 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

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

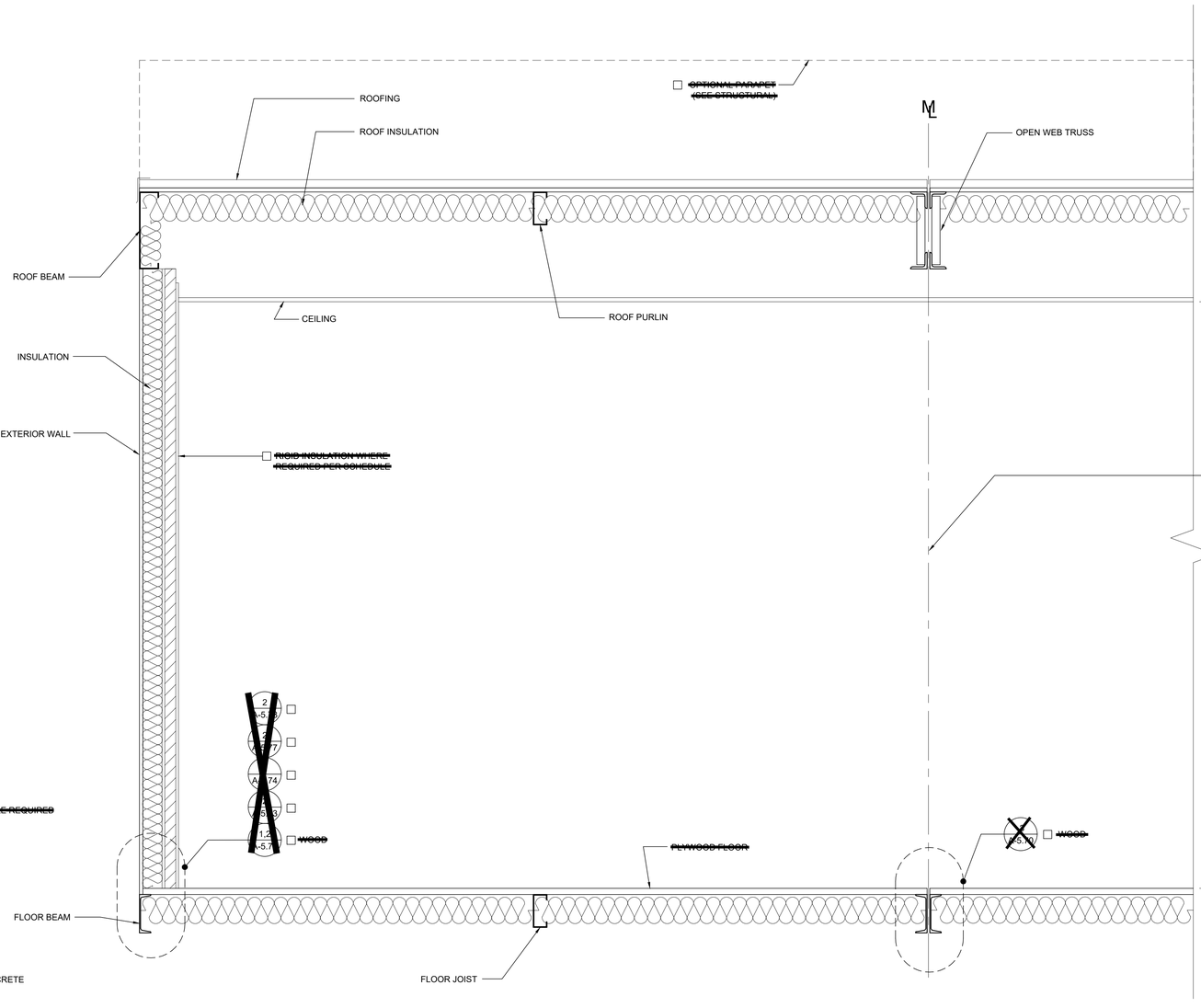
FINISH:	SHEET #:
~~☐ 1 HOUR - SIDING OVER WOOD STUDS~~	~~A-5.52~~
~~☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS~~	~~A-5.53~~
~~☐ 1 HOUR - SIDING OVER STEEL STUDS~~	~~A-5.62~~
~~☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS~~	~~A-5.63~~

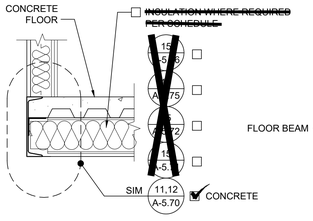
FLOOR OPTION

- ☐ WOOD FLOOR
- ☑ CONCRETE FLOOR

NOTES

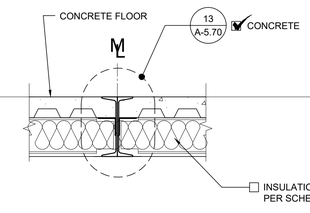
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CONCRETE FLOOR OPTION

WOOD FLOOR OPTION



CONCRETE FLOOR OPTION

BUILDING SECTION

SCALE: 1" = 1'-0" | 1

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

CROSS SECTION

REVISIONS

1 2 3 4 5

PRE-CHECK (PC) DOCUMENT
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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

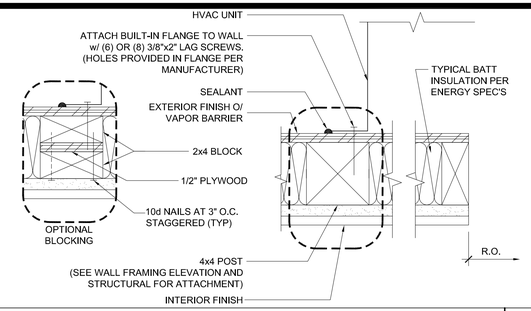
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
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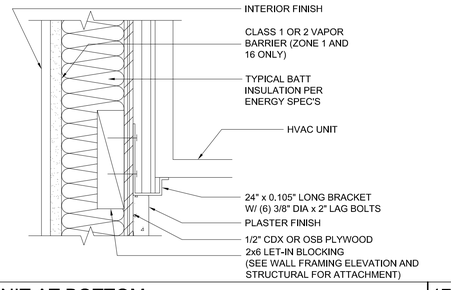
P.C. SHEET NUMBER

A-5.05



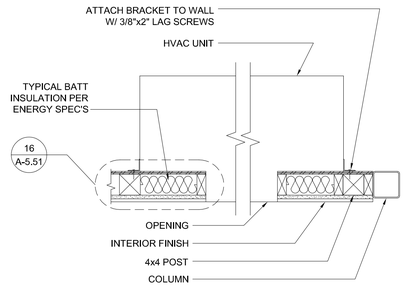
HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17

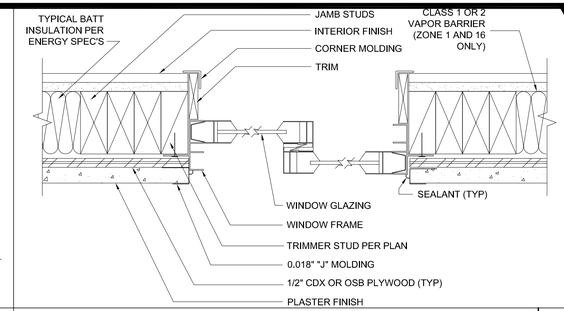


HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18

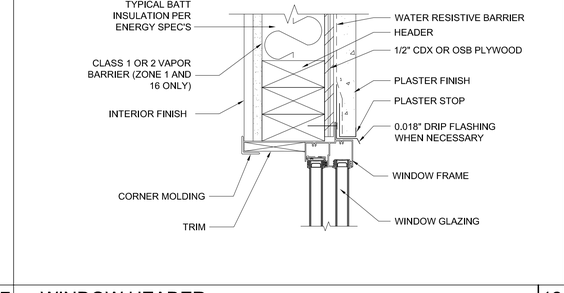
NOT USED | 19

NOT USED | 20



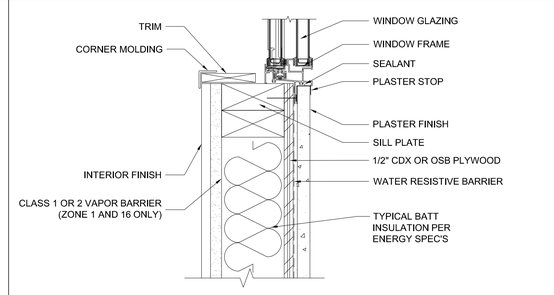
WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11



WINDOW HEADER

SCALE : 3"=1'-0" | 12



WINDOW SILL

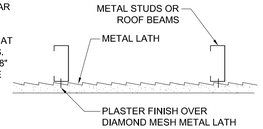
SCALE : 3"=1'-0" | 13

1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

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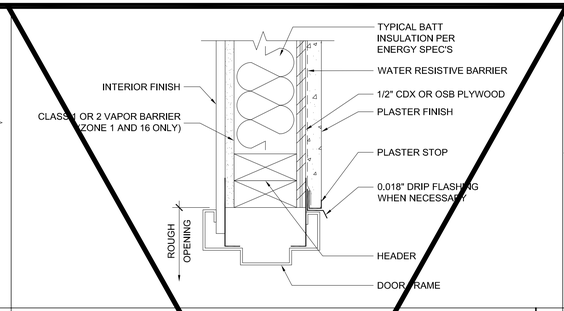
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4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLAN.



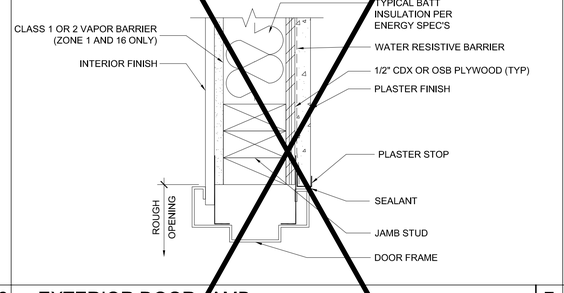
METAL LATH ATTACHMENT TO METAL JOIST

SCALE : NTS | 15



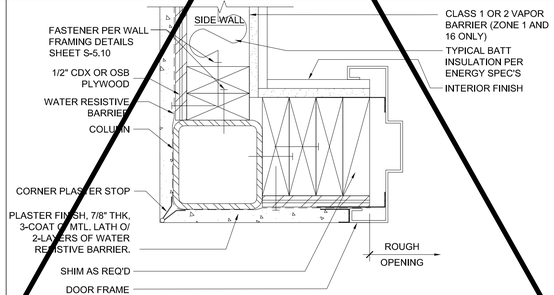
EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



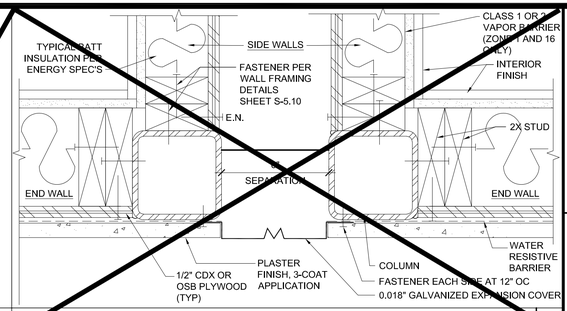
EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7



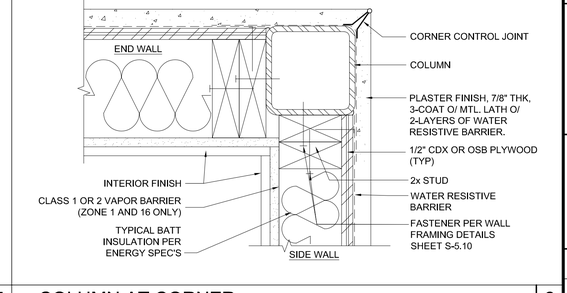
EXTERIOR DOOR JAMBS

SCALE : 3"=1'-0" | 10



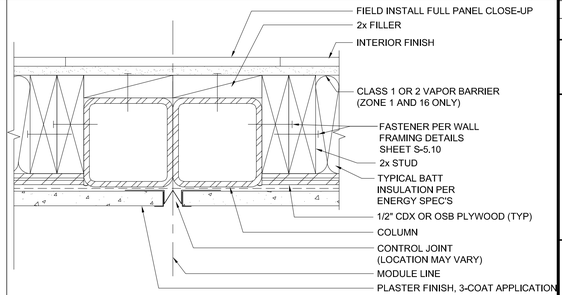
CLOSURE BETWEEN BUILDINGS

SCALE : 3"=1'-0" | 1



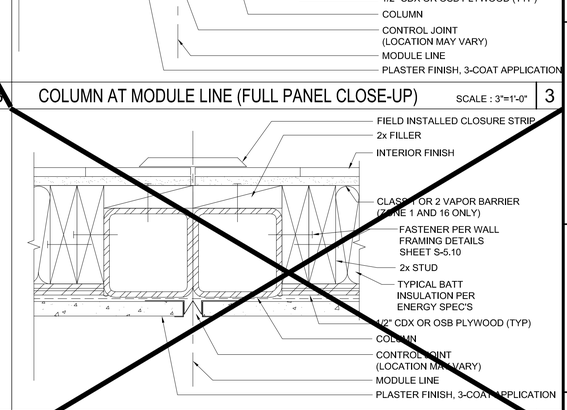
COLUMN AT CORNER

SCALE : 3"=1'-0" | 2



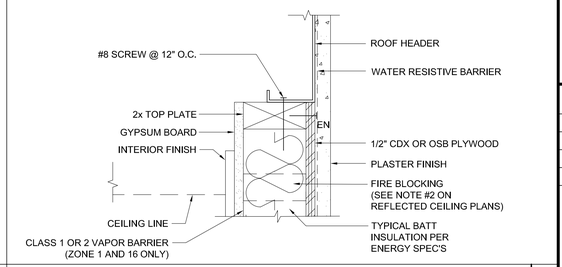
COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP)

SCALE : 3"=1'-0" | 3



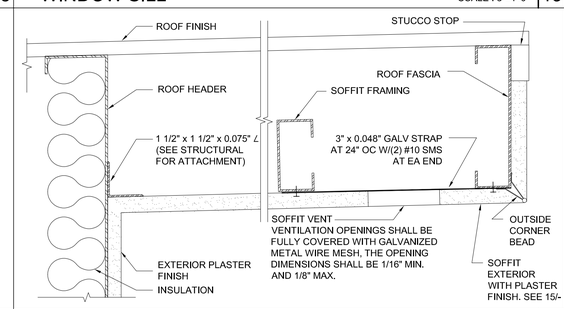
COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP)

SCALE : 3"=1'-0" | 4



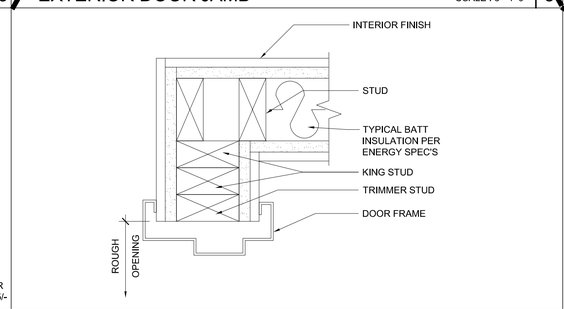
TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5



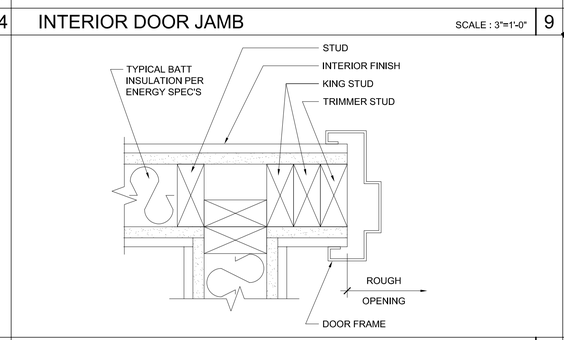
SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14



INTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 9



INTERIOR DOOR JAMBS

SCALE : 3"=1'-0" | 10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ARCHITECTURAL DETAILS
WOOD STUD - PLASTER

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: 01-121999 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

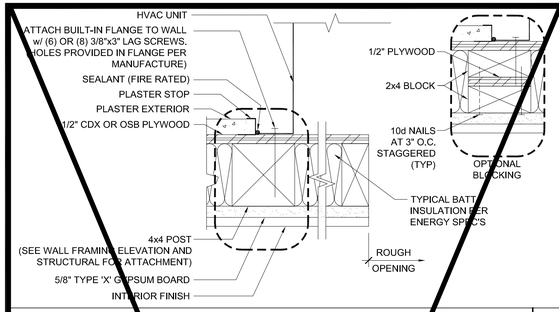
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLAND
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

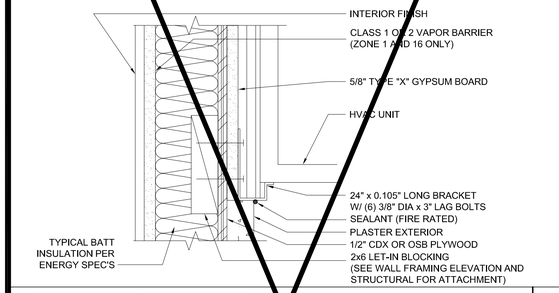
P.C. SHEET NUMBER

A-5.51



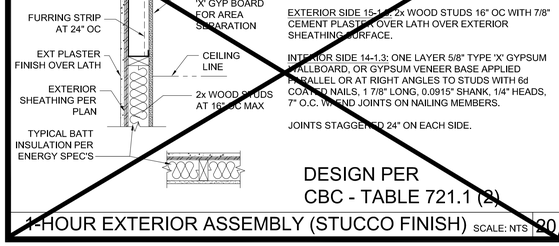
HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18

GA FILE No. WP 3510

GYPSUM WALLBOARD, WOOD STUDS

ONE LAYER 5/8" TYPE 'X' GYPSUM WALL BOARD APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF STUDS WITH 6d COATED NAILS, 1 7/8" LONG, 0.0915 SHANK, 1/4" HEADS, 7" OC.

JOINTS STAGGERED 24" ON OPPOSITE SIDES.



THICKNESS:	4-7/8"
APPROXIMATE WEIGHT:	7 PSF
FIRE TEST:	UL R3501-47,-48,9-17-65, DESIGN U309; UL R1319-129, 7-22-70, DESIGN U314
SOUND TEST:	NGC 2404, 10-14-70

1-HOUR INTERIOR ASSEMBLY #WP3510

SCALE: NTS | 19

WOOD STUDS,
CEMENT PLASTER, GYPSUM WALLBOARD

EXTERIOR SIDE 15-1.3: 2x WOOD STUDS 16" OC WITH 7/8" CEMENT PLASTER OVER LATH OVER EXTERIOR SHEATHING SURFACE.

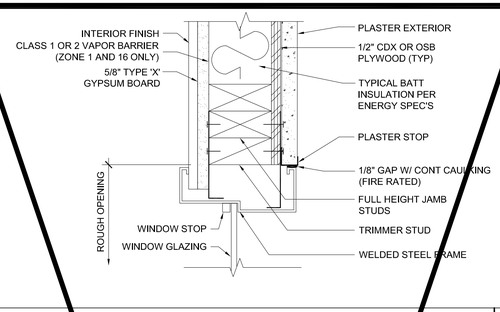
INTERIOR SIDE 14-1.3: ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD, OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO STUDS WITH 6d COATED NAILS, 1 7/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C. W/END JOINTS ON NAILING MEMBERS.

JOINTS STAGGERED 24" ON EACH SIDE.

DESIGN PER
CBC - TABLE 721.1 (2)

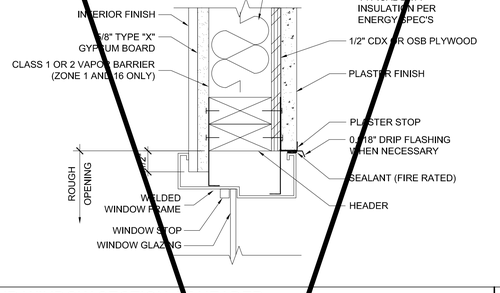
1-HOUR EXTERIOR ASSEMBLY (STUCCO FINISH)

SCALE: NTS | 20



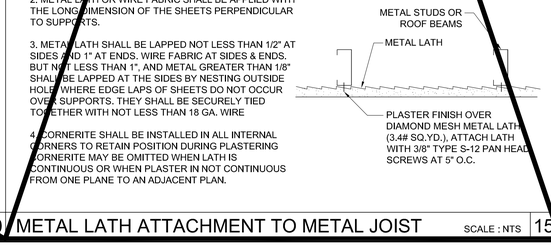
1-HR WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11



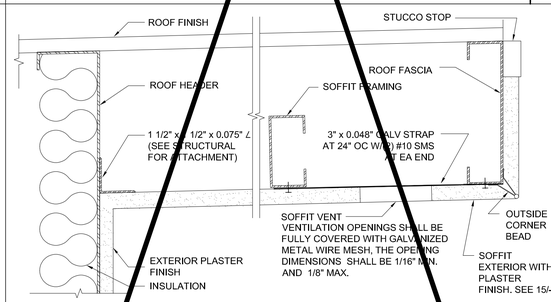
1-HR WINDOW SECTION AT HEADER

SCALE : 3"=1'-0" | 12



1-HR WINDOW SECTION AT SILL

SCALE : 3"=1'-0" | 13



SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14

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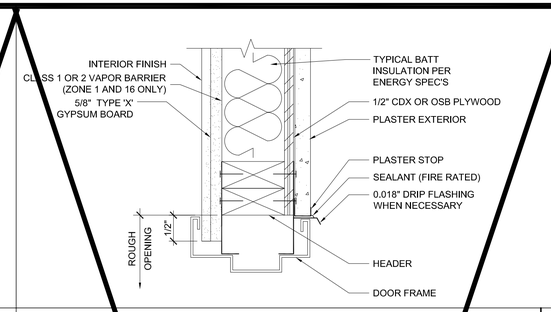
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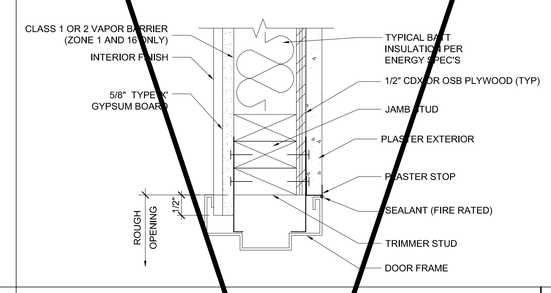
METAL LATH ATTACHMENT TO METAL JOIST

SCALE : NTS | 15



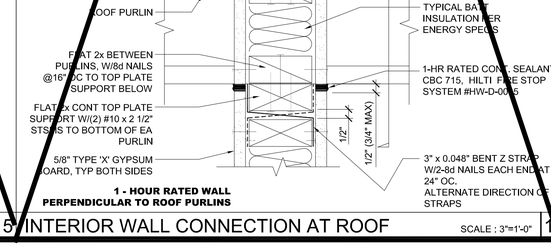
1-HR EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



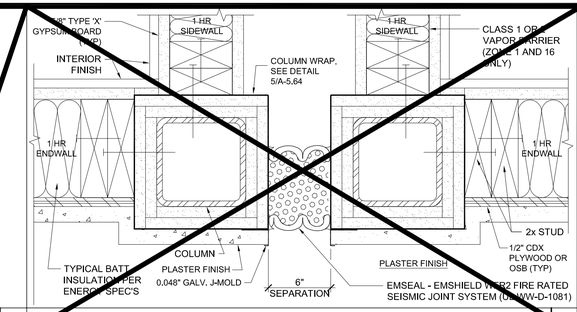
1-HR EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7



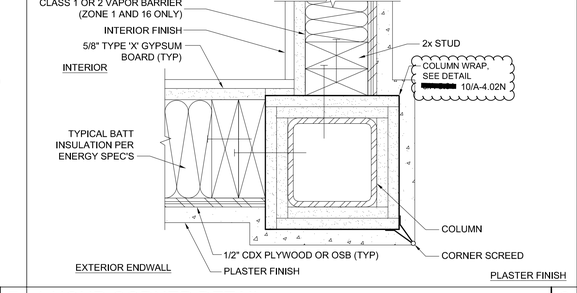
1-HR EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 8



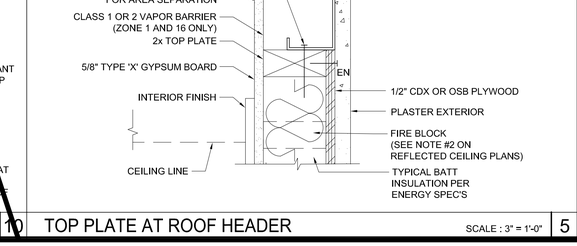
1 HR CLOSURE BETWEEN BLDGS

SCALE : 3"=1'-0" | 1



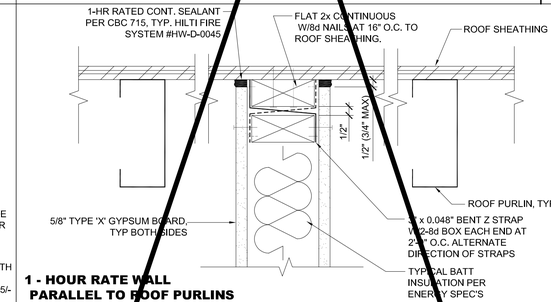
1-HOUR CORNER DETAIL

SCALE : 3"=1'-0" | 2



1-HR AT MODLINE CLOSURE

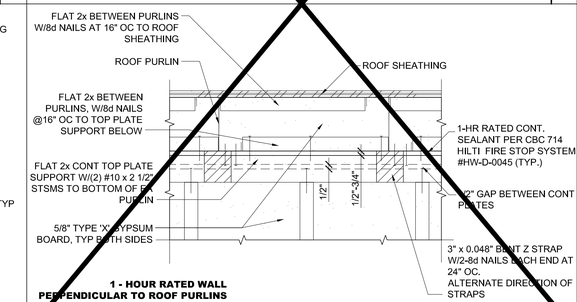
SCALE : 3"=1'-0" | 3



1 - HOUR RATE WALL
PARALLEL TO ROOF PURLINS

INTERIOR WALL CONNECTION AT ROOF

SCALE : 3"=1'-0" | 9



1 - HOUR RATED WALL
PERPENDICULAR TO ROOF PURLINS

INTERIOR WALL CONNECTION AT ROOF

SCALE : 3"=1'-0" | 4

1 - HOUR RATED WALL
PERPENDICULAR TO ROOF PURLINS

INTERIOR WALL CONNECTION AT ROOF

SCALE : 3"=1'-0" | 10

TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ARCHITECTURAL DETAILS
WOOD STUD - PLASTER
1 HOUR RATED

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121999 INC:
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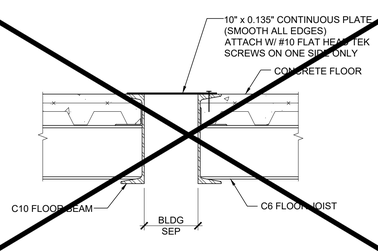
PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

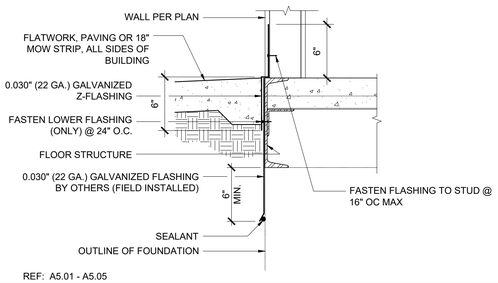
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES	24' x 40' PC
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023
P.C. SHEET NUMBER	A-5.53



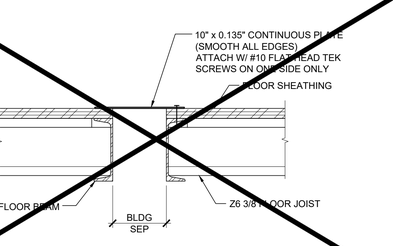
REF: A1.03

16 FLOOR AT SEPARATION (CONCRETE FLR) SCALE : 1 1/2"=1'-0"



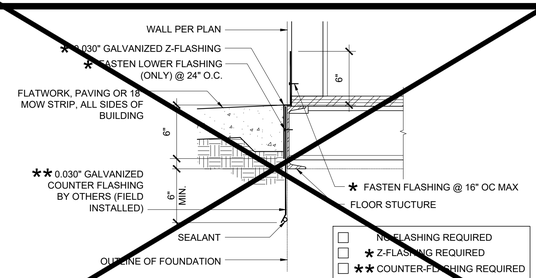
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11 SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0"



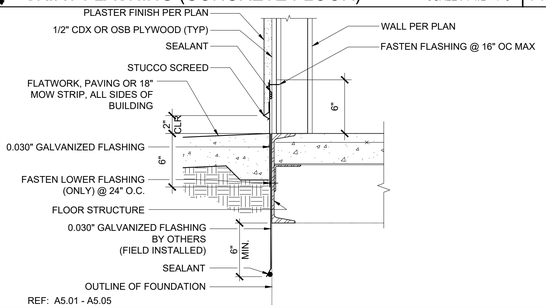
REF: A1.03

6 FLOOR AT SEPARATION (WOOD FLOOR) SCALE : 1 1/2"=1'-0"



REF: A5.01 - A5.05

1 SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0"



REF: A5.01 - A5.05

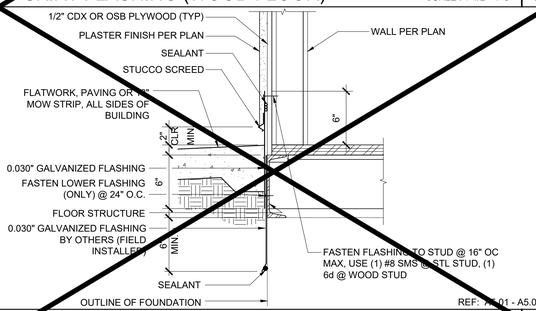
17 SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0"

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.

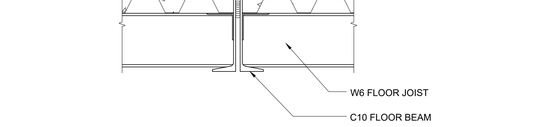
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7 SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0"



REF: A5.01 - A5.05

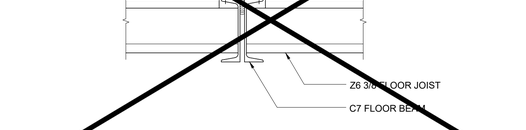
18 FLOOR AT MODLINE (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0"



REF: A1.01 - A1.03

13

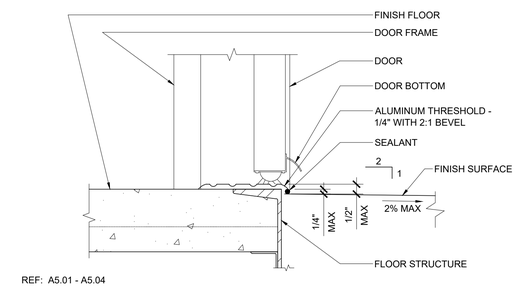
8 FLOOR AT MODLINE (WOOD FLOOR) SCALE : 1 1/2"=1'-0"



REF: A1.01 - A1.03

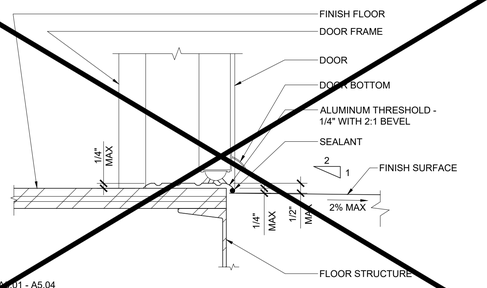
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4 THRESHOLD SCALE : 3"=1'-0"



REF: A5.01 - A5.04

19 THRESHOLD SCALE : 3"=1'-0"

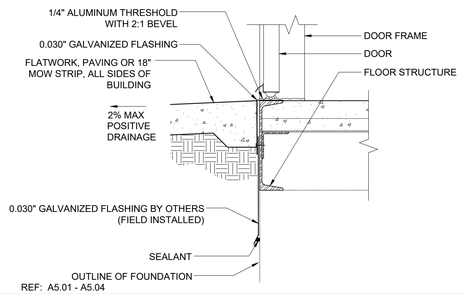


REF: A5.01 - A5.04

14

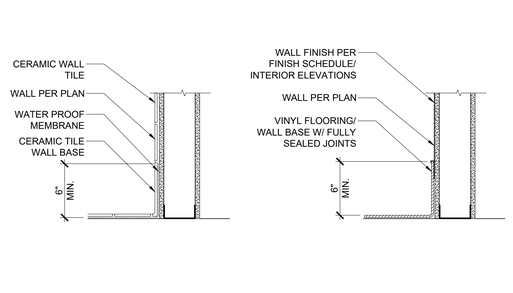
9

5 THRESHOLD SCALE : 3"=1'-0"

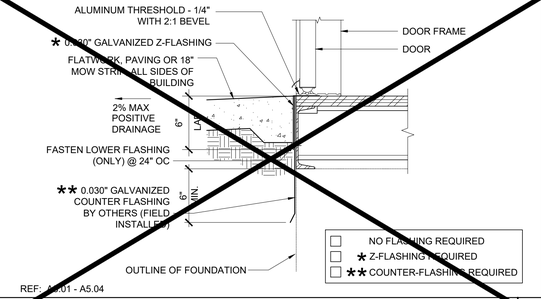


REF: A5.01 - A5.04

20 TYPICAL SILL AT FLOOR (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0"



15 WALL BASE AT TOILET ROOMS SCALE : 1 1/2"=1'-0"



REF: A5.01 - A5.04

10 TYPICAL SILL AT FLOOR (WOOD FLOOR) SCALE : 1 1/2"=1'-0"

IDENTIFICATION STAMP
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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ARCHITECTURAL DETAILS
FLOOR

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
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

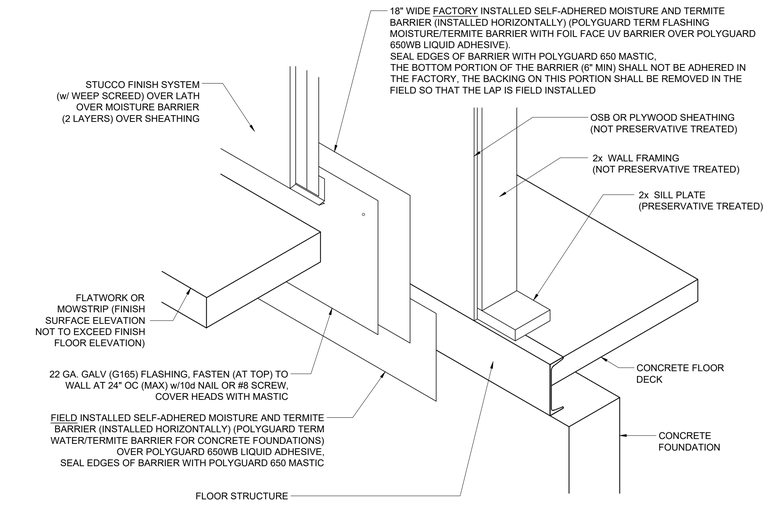
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

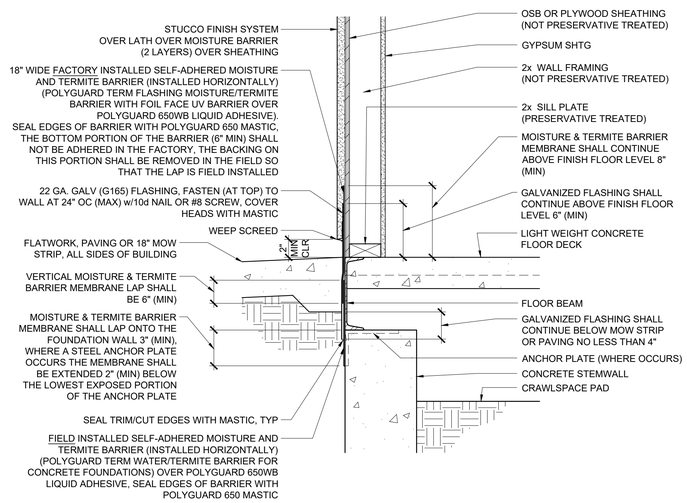
P.C. SHEET NUMBER

A-5.70



NOTE:
SEE DETAIL 10/- FOR DETERIORATION PROTECTION REQUIREMENTS

ISOMETRIC VIEW

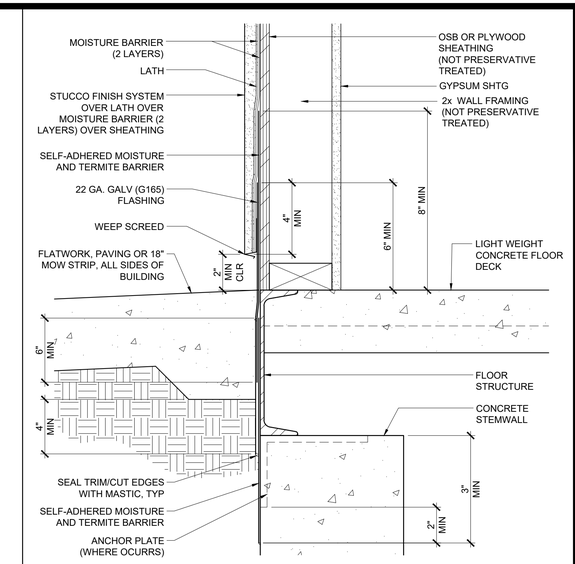


NOTE:
WHERE THE EXTERIOR GRADE IS BELOW THE TOP OF THE FOUNDATION WALL AND THE BOTTOM OF THE FOUNDATION ANCHOR PLATE(S) (WHERE OCCURS) THE FLASHING AND MEMBRANE OCCURRING BELOW GRADE MAY BE OMITTED.

SECTION VIEW

DETERIORATION PROTECTION

SCALE : NTS | 7



NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

TYPICAL EXTERIOR WALL SILL

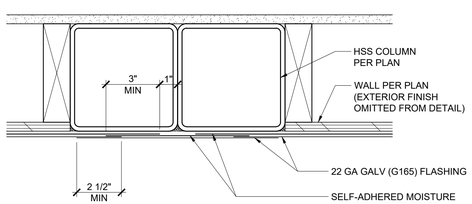
SCALE : NTS | 2

OUTSIDE CORNER

INSIDE CORNER

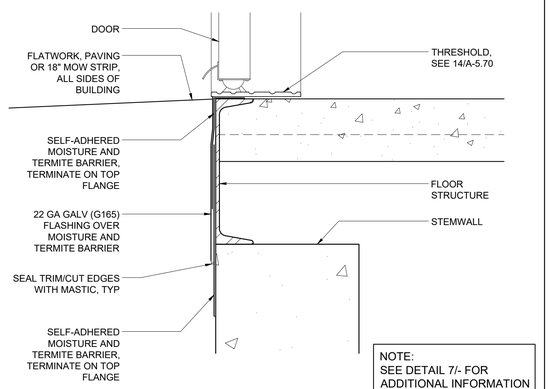
DETERIORATION PROTECTION - CORNER CONDITIONS

SCALE : NTS | 14



DETERIORATION PROTECTION - MODLINE

SCALE : NTS | 20



NOTE:
SEE DETAIL 7/- FOR ADDITIONAL INFORMATION

DETERIORATION PROTECTION @ THRESHOLD

SCALE : NTS | 15

MOISUTRE AND TERMITE BARRIER MEMBRANE FLASHING INSTALLATION REQUIREMENTS

- ALL SURFACES SHALL BE CLEAN (FREE OF DIRT, DUST, OIL AND OTHER DEBRIS) PRIOR TO APPLICATION OF THE ADHESIVE AND MEMBRANE.
- ALL SURFACE VOIDS GREATER THAN 1/8" IN WIDTH SHALL BE FILLED WITH SEALANT PRIOR TO INSTALLATION.
- APPLY LIQUID ADHESIVE TO ALL SURFACES WHICH WILL RECEIVE THE FLASHING BARRIER.
- CUT PIECES OF MEMBRANE TO LENGTH AS NEEDED AND APPLY TO SUBSTRATE ONCE THE LIQUID ADHESIVE HAS BECOME TACKY. IMMEDIATELY PRIOR TO MEMBRANE APPLICATION, THE INSTALLER SHALL VERIFY THAT THE ADHESIVE IS STILL TACKY TO THE TOUCH, IF NECESSARY A SECOND LAYER OF ADHESIVE SHALL BE PROVIDED.
- INSTALL MEMBRANE IN A HORIZONTAL ORIENTATION.
- WHERE A HORIZONTAL LAP OCCURS, THE JOINTS SHALL BE LAPPED 2 1/2 INCHES MINIMUM.
- AT BUILDING CORNERS THE MEMBRANE SHALL BE WRAPPED AROUND THE CORNER AND SHALL EXTEND NO LESS THAN 6" BEYOND THE CORNER PRIOR TO LAPPING ANOTHER SHEET. SEE DETAIL 14/-
- WHERE ARE MODULE JOINT (MODLINE) OCCURS THE FACTORY INSTALLED MEMBRANE SHALL BE TERMINATED WITHIN 1" OF THE EDGE OF THE MODULE. A FIELD INSTALLED MEMBRANE PIECE SHALL BE APPLIED FOLLOWING THE INSTALLATION OF THE MODULES ON THE FOUNDATION. THE FIELD INSTALLED MEMBRANE PIECE SHALL LAP THE FACTORY INSTALLED MEMBRANE 3" MINIMUM AT EACH END.
- WHERE A VERTICAL LAP OCCURS THE UPPER MEMBRANE LAYER SHALL BE LAPPED OVER THE LOWER MEMBRANE LAYER 6" MINIMUM.
- THE MEMBRANE SHALL BE ROLLED FIRMLY INTO PLACE USING HAND ROLLER.
- APPLY MASTIC OR SEALANT TO TERMINATING EDGES AND AROUND PIPES OR OTHER PENETRATIONS.
- WHERE THE SURFACES ARE OFFSET MORE THAN 1/8" OUT-OF-PLANE PROVIDE SEALANT OR ANOTHER STABLE MATERIAL TO TRANSITION BETWEEN THE SURFACES.
- WHERE A HORIZONTAL LAP OCCURS IN THE GALVANIZED FLASHING THE JOINTS SHALL BE LAPPED 2 1/2" MINIMUM
- REFER TO DETAIL 20/- FOR MODLINE DETERIORATION PROTECTION

REPAIR REQUIREMENTS

WHERE DAMAGE OCCURS, THE REPAIRS SHALL BE AS FOLLOWS:

1. WHERE THE DAMAGE MEASURES LESS THAN ½" IN ANY DIRECTION THE PUNCTURE SHALL BE SEALED WITH MASTIC.
2. WHERE THE DAMAGE MEASURES MORE THAN ½", BUT LESS THAN 2", IN ANY DIRECTION A PATCH SHALL BE INSTALLED OVER THE DAMAGE USING THE SAME MEMBRANE MATERIAL. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTION.
3. WHERE THE DAMAGE MEASURES MORE THAN 2" IN ANY DIRECTION THE DAMAGED PORTION SHALL BE REMOVE AND A PIECE OF MEMBRANE SHALL BE INSTALLED. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.

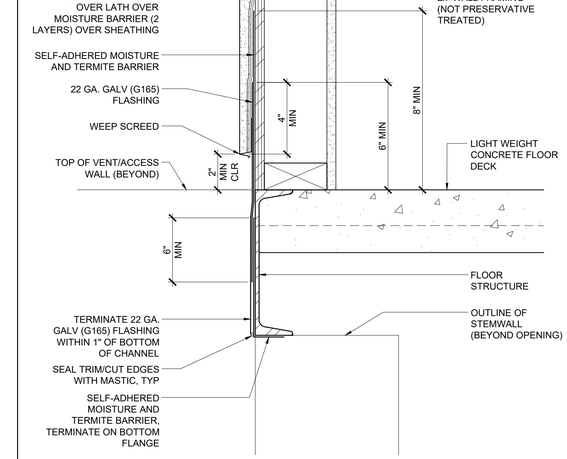
INSPECTION REQUIREMENTS

THE IN-PLANT INSPECTOR SHALL OBSERVE THE INSTALLATION OF FACTORY INSTALLED PORTION OF THE MEMBRANE FLASHING. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE.

THE ON-SITE INSPECTOR SHALL OBSERVE THE INSTALLATION OF THE SITE INSTALLED PORTION OF THE MEMBRANE FLASHING. THE FACTORY INSTALLED MEMBRANE SHOULD BE INVESTIGATED TO DETERMINE IF ANY DAMAGE OCCURRED DURING MODULE SHIPMENT/INSTALLATION PRIOR TO PROCEEDING WITH THE SITE INSTALLED MEMBRANE PLACEMENT. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE LAPPED ONTO THE FOUNDATION WALL AS INDICATED WITHIN THIS DRAWING PACKAGE. THE GALVANIZED FLASHING SHALL BE INSTALLED OVER THE MEMBRANE. THE GALVANIZED FLASHING SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE AND SHALL CONTINUE BELOW THE BOTTOM OF THE FLATWORK OR MOW STRIP AS INDICATED WITHIN THIS DRAWING PACKAGE.

DETERIORATION PROTECTION REQUIREMENTS

10



NOTE:
SEE DETAIL 7/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

EXTERIOR WALL SILL @VENT / ACCESS

SCALE : NTS | 4

5

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

DETERIORATION PROTECTION
STUCCO EXTERIOR FINISH
CONC FLOOR - WD STUDS

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

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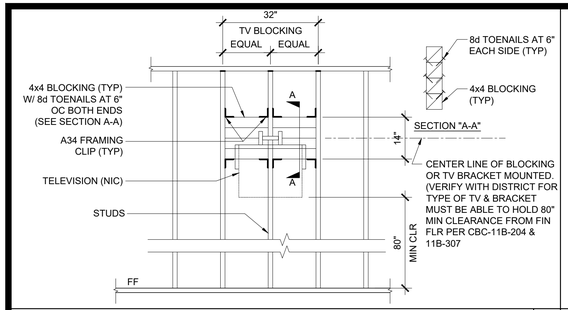
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

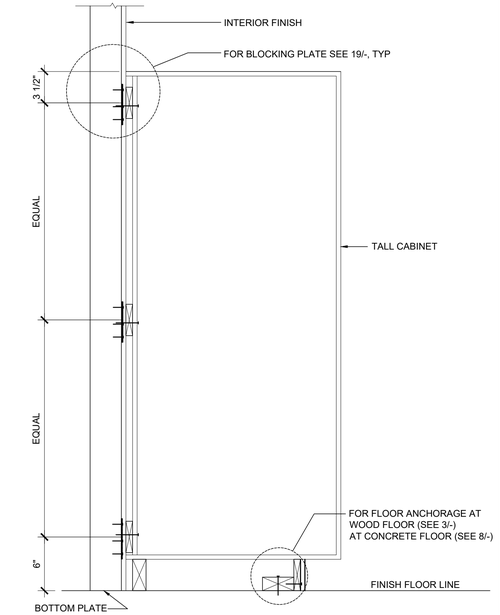
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A-5.72

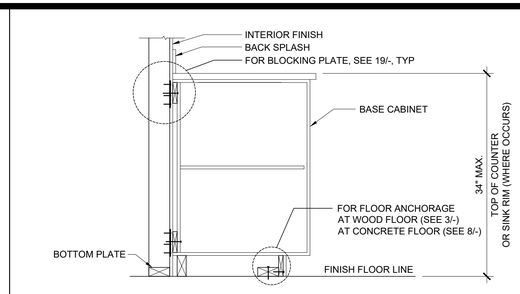


T.V. BLOCKING ATTACHMENT AT WOOD STUD — SCALE : 1/2" = 1'-0" — 16

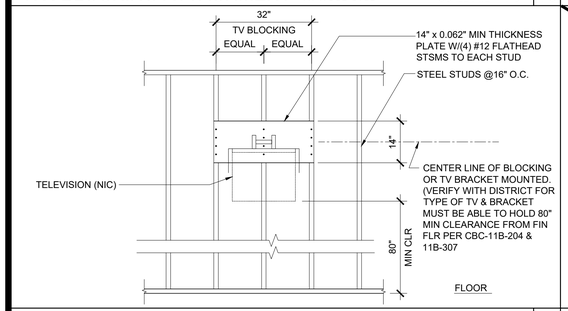
NOT USED — 11



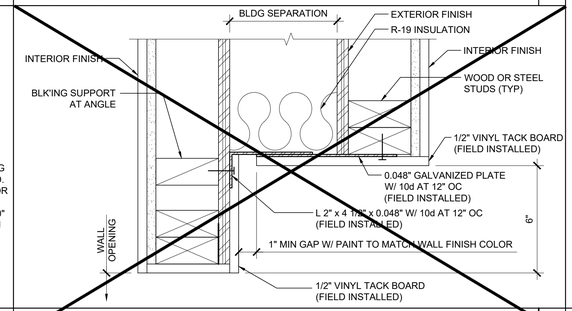
TALL CABINET WALL ANCHORAGE — SCALE : 1 1/2" = 1'-0" — 7



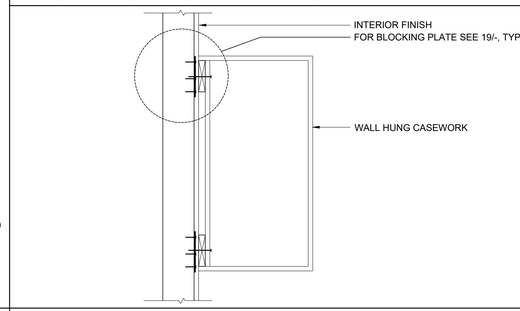
BASE CABINET WALL ANCHORAGE — SCALE : 1" = 1'-0" — 1



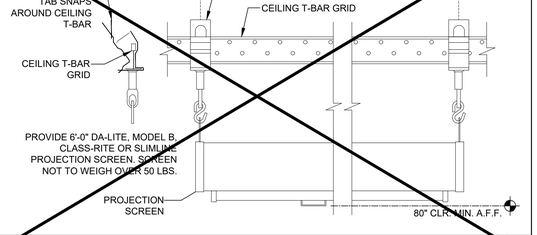
T.V. BLOCKING ATTACHMENT AT STEEL STUD — SCALE : 1/2" = 1'-0" — 17



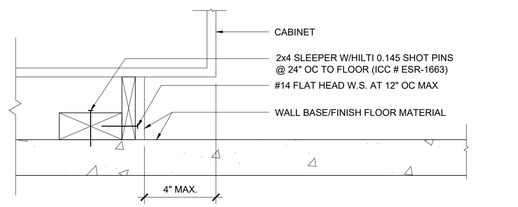
WALL OPENING AT HEADER AND JAMB — SCALE : 3"=1'-0" — 12



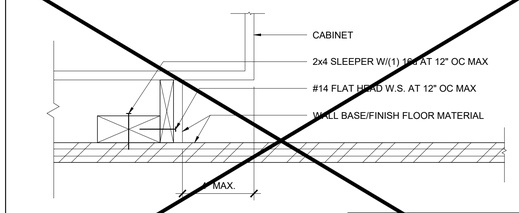
WALL HUNG ANCHORAGE CABINET — SCALE : 1 1/2" = 1'-0" — 2



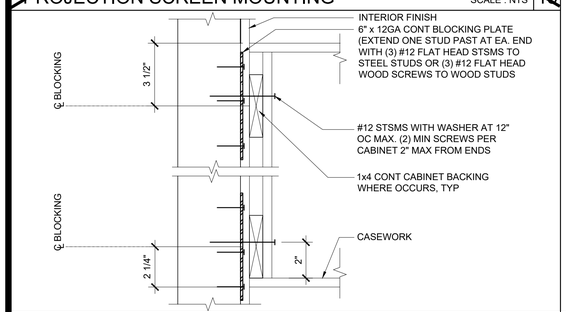
PROJECTION SCREEN MOUNTING — SCALE : NTS — 18



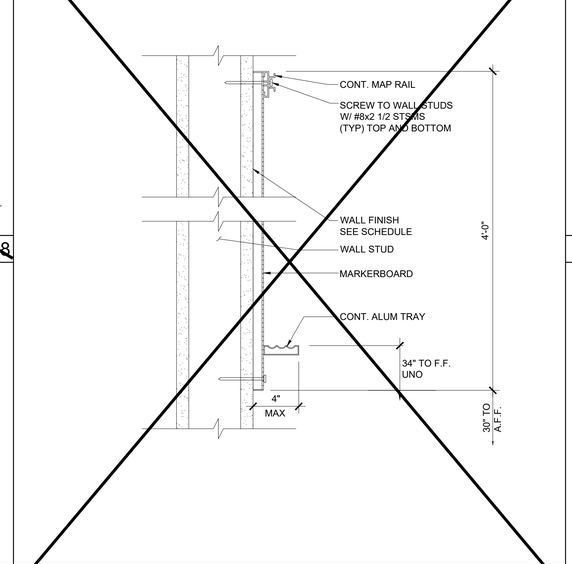
ATTACHMENT TO BLOCKING - CONC. FLOOR — SCALE : 3" = 1'-0" — 8



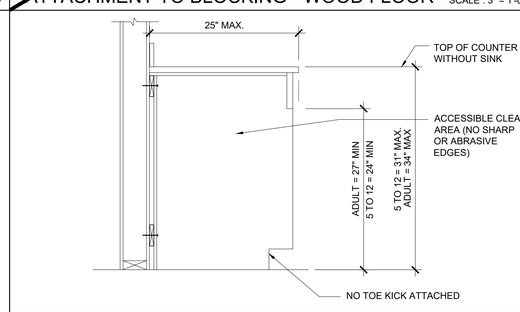
ATTACHMENT TO BLOCKING - WOOD FLOOR — SCALE : 3" = 1'-0" — 3



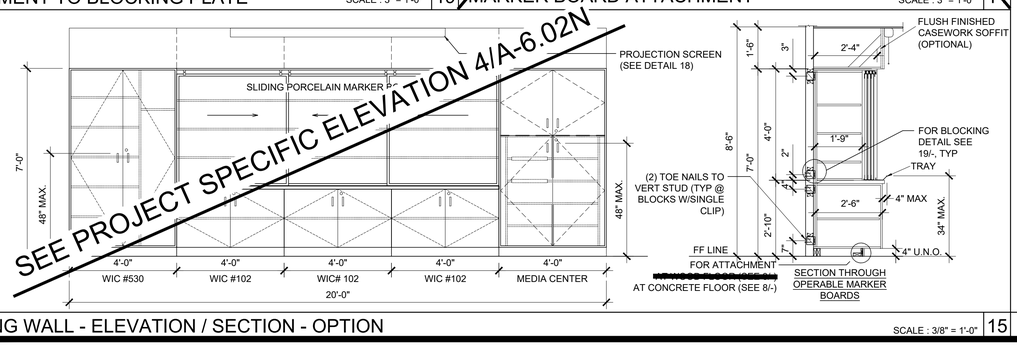
ATTACHMENT TO BLOCKING PLATE — SCALE : 3" = 1'-0" — 19



MARKER BOARD ATTACHMENT — SCALE : 3" = 1'-0" — 14



ACCESSIBLE COUNTER — SCALE : 1" = 1'-0" — 4



TEACHING WALL - ELEVATION / SECTION - OPTION — SCALE : 3/8" = 1'-0" — 15

NOT USED — 10

NOT USED — 5

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121999 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

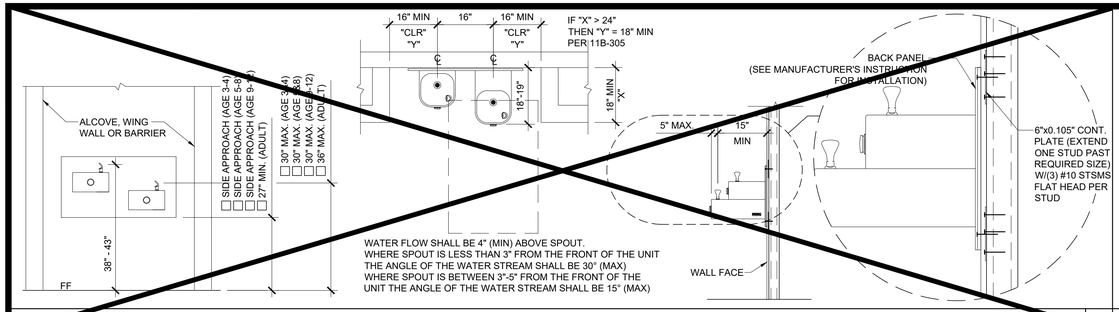
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

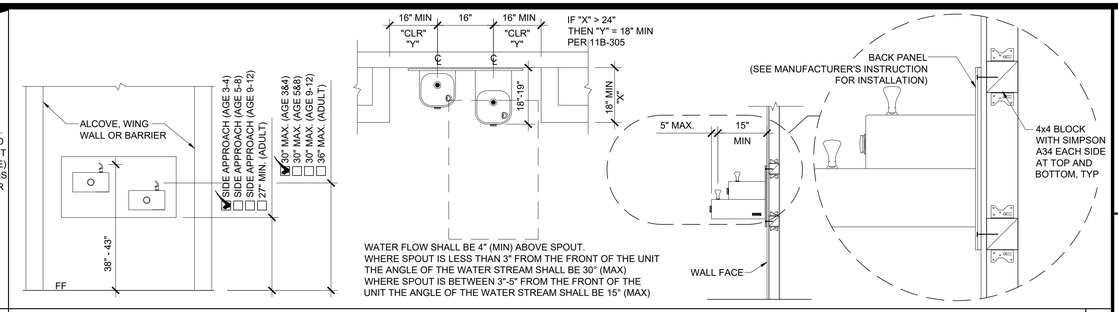
P.C. SHEET NUMBER

A-5.80



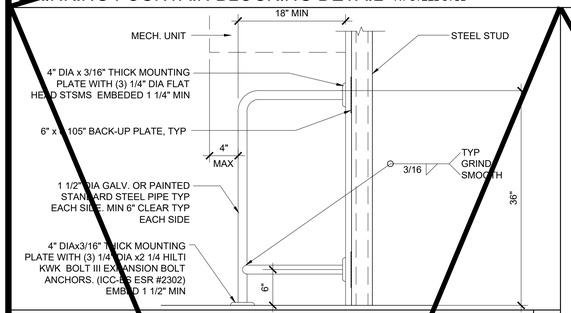
DRINKING FOUNTAIN BLOCKING DETAIL AT STEEL STUD

SCALE : 1/2" = 1'-0" | 11



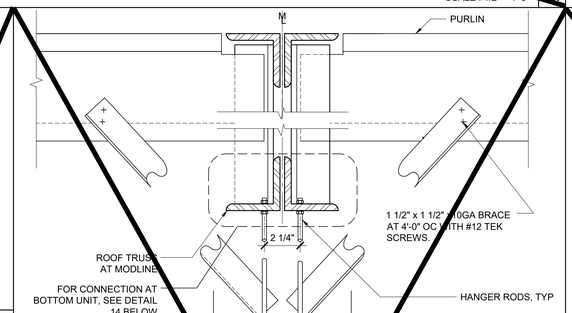
DRINKING FOUNTAIN BLOCKING DETAIL AT WOOD STUD

SCALE : 1/2" = 1'-0" | 1



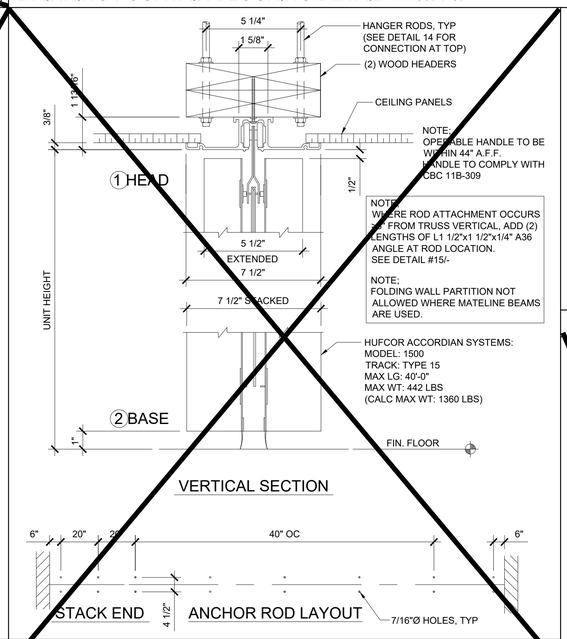
HVAC BARRIER - OPT. D.F. BARRIER AT STEEL STUD

SCALE : 1" = 1'-0" | 17



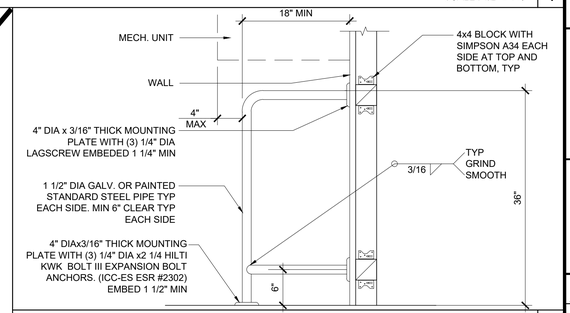
FOLDING WALL PARTITION ATTACH @ TOP UNIT

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

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

PIPE PENETRATION THROUGH ROOF

SCALE : 3"=1'-0" | 10

WATER HEATER BRACING AT WOOD STUD

SCALE : 1 1/2" = 1'-0" | 5

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DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ARCHITECTURAL DETAILS
MISCELLANEOUS/OPTIONS

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

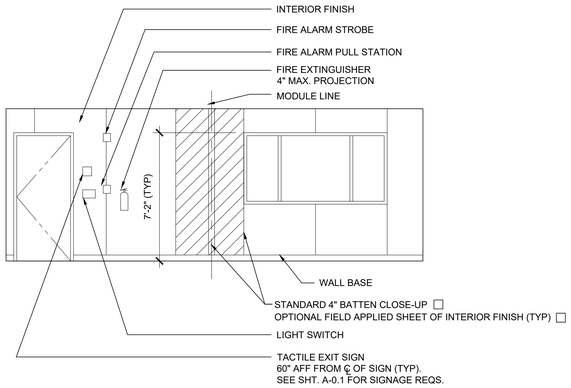
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24675 STRUCTURAL STATE OF CALIFORNIA

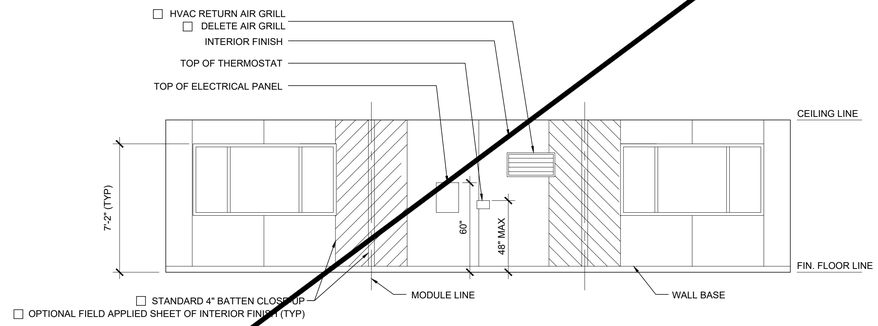
SILVER CREEK INDUSTRIES	24' x 40' PC
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

A-5.81

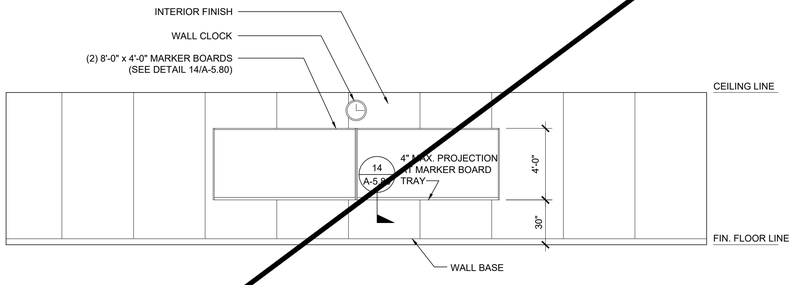


FRONT ELEVATION — SCALE: 1/4" = 1' - 0" — 3

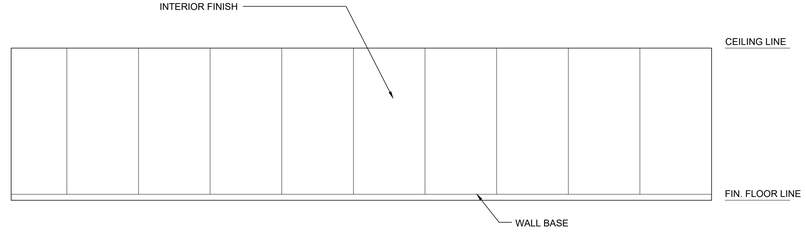


REAR ELEVATION — SCALE: 1/4" = 1' - 0" — 1

SEE PROJECT SPECIFIC SHEET A-6.02N



SIDE ELEVATION — SCALE: 1/4" = 1' - 0" — 4



SIDE ELEVATION — SCALE: 1/4" = 1' - 0" — 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

INTERIOR ELEVATION
36' x 40'

REVISIONS

1	
2	
3	
4	
5	

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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
24178
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-6.02

ANCHORAGE NOTES:
1. ANCHOR PLATES SHALL BE PLACED SUCH THAT THE FOLLOWING MINIMUM CRITERIA ARE MET:
   - ONE (1) LARGE ANCHOR PLATE AT EA. END OF EVERY MATE LINE.
   - ONE (1) ANCHOR PLATE WITHIN 35" OF OVERALL BUILDING CORNERS IN EA DIRECTION. (TWO PER MODULE ALONG EACH END WALL)
   - THREE (3) ANCHOR PLATES ALONG EACH SIDE WALL
2. SIDE WALL PLATES SHALL BE PLACED IN THE CORNER (AS NOTED ABOVE) WITH A 3RD PLATE AS CLOSE THE MIDSPAN AS IS POSSIBLE (PLATE LOCATION MAY BE ADJUSTED TO AVOID VENT/ACCESS OPENINGS.
3. ANCHOR PLATES WITHIN 21" OF AN OPENING SHALL BE REINFORCED WITH HAIRPINS PER 18/F-2.51.

NOTES

1. 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 MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
   4'-0" MAXIMUM VENT SIZE AT END WALLS
   3'-0" MINIMUM DISTANCE FROM EDGE OF VENT TO STEMWALL CORNER
   2-'0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (WHERE OCCURS):

   THE 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; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); SEAL TO ALL PIERS AND OTHER PENETRATIONS, SEE DETAIL 11/F-2.51.
4. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.
5. PROFESSIONAL SOILS REPORT: IF A SOILS REPORT IS REQUIRED BY DSA ON THIS BUILDING(S) AND THE RECOMMENDATIONS CAUSE AN INCREASE IN THE COST OF THE ORIGINAL FOUNDATION. THEN THE DISTRICT AGREES TO ACCEPT AND APPROVE A CHANGE ORDER IN THE AMOUNT OF THE COST INCREASE.
6. 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.
7. A COLD JOINT MAY BE PROVIDED BETWEEN THE FOOTING AND THE VERTICAL FOUNDATION WALL. THE JOINT SHALL BE KEYED (2 1/2" WIDE (MIN) x 1 1/2" DEEP) AND ALL VERTICAL REINFORCING THAT CROSSES THE JOINT SHALL BE PLACED PRIOR TO THE PLACEMENT OF CONCRETE.

VENTING SCHEDULE

VENT "A" : (8'-0" x 8" METAL SCREEN COVER)
7'-10" x 5" = 3.26 S.F. VENTILATION

VENT "B" : (6'-0" x 8" METAL SCREEN COVER)
5'-10" x 5" = 2.43 S.F. VENTILATION

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

VENTING CALCULATION:

☐ 24' x 40' BUILDING: 24' x 40' = 960 SF / 150 = 6.4 SF VENT. REQ'D
D / C C — 23'-10 1/4"
2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
7.43 SF TOTAL VENTILATION (> 6.4 SF)

☐ 36' x 40' BUILDING: 36' x 40' = 1440 SF / 150 = 9.6 SF VENT. REQ'D
D / B A — 35'-9 1/2"
1 - "A" VENT = 3.26 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
9.94 SF TOTAL VENTILATION (> 9.6 SF)

☐ 48' x 40' BUILDING: 48' x 40' = 1920 SF / 150 = 12.8 SF VENT. REQ'D
D / C A / B B — 47'-8 3/4"
1 - "A" VENT = 3.26 SF
2 - "B" VENT = 4.86 SF
1 - "C" VENT = 1.59 SF
1 - "D" ACCESS VENT = 4.25 SF
13.96 SF TOTAL VENTILATION (> 12.8 SF)

☐ 60' x 40' BUILDING: 60' x 40' = 2400 SF / 150 = 16 SF VENT. REQ'D
D / B A / A A — 59'-8"
3 - "A" VENT = 9.78 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
16.46 SF TOTAL VENTILATION (> 16 SF)

☐ 72' x 40' BUILDING: 72' x 40' = 2880 SF / 150 = 19.2 SF VENT. REQ'D
D / A A / A B A / A A — 71'-7 1/4"
4 - "A" VENT = 13.04 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
19.72 SF TOTAL VENTILATION (> 19.2 SF)

☐ 84' x 40' BUILDING: 84' x 40' = 3360 SF / 150 = 22.4 SF VENT. REQ'D
D / A A / A B A / A A — 83'-6 1/2"
5 - "A" VENT = 16.30 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
22.98 SF TOTAL VENTILATION (> 22.4 SF)

☐ 96' x 40' BUILDING: 96' x 40' = 3840 SF / 150 = 25.6 SF VENT. REQ'D
D C C / A A A / A A A — 95'-5 3/4"
5 - "A" VENT = 19.56 SF
1 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
26.99 SF TOTAL VENTILATION (> 25.6 SF)

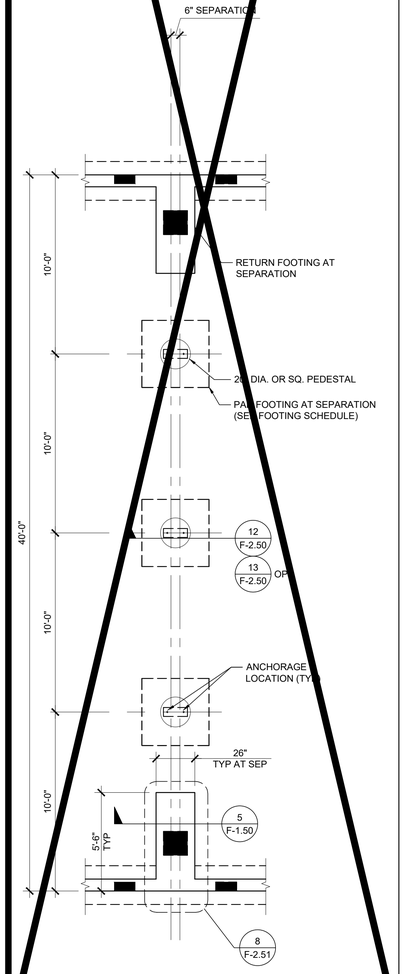
☐ 108' x 40' BUILDING: 108' x 40' = 4320 SF / 150 = 28.8 SF VENT. REQ'D
C D C / A A A / B B B / A A A / C C C — 107'-5"
4 - "A" VENT = 13.04 SF
2 - "B" VENT = 4.86 SF
5 - "C" VENT = 7.95 SF
1 - "D" ACCESS VENT = 4.25 SF
30.10 SF TOTAL VENTILATION (> 28.8 SF)

☐ 120' x 40' BUILDING: 120' x 40' = 4800 SF / 150 = 32 SF VENT. REQ'D
C C D C / A A A A / A A A A / C C C — 119'-4 1/4"
6 - "A" VENT = 19.56 SF
6 - "C" VENT = 9.54 SF
1 - "D" ACCESS VENT = 4.25 SF
33.35 SF TOTAL VENTILATION (> 32 SF)

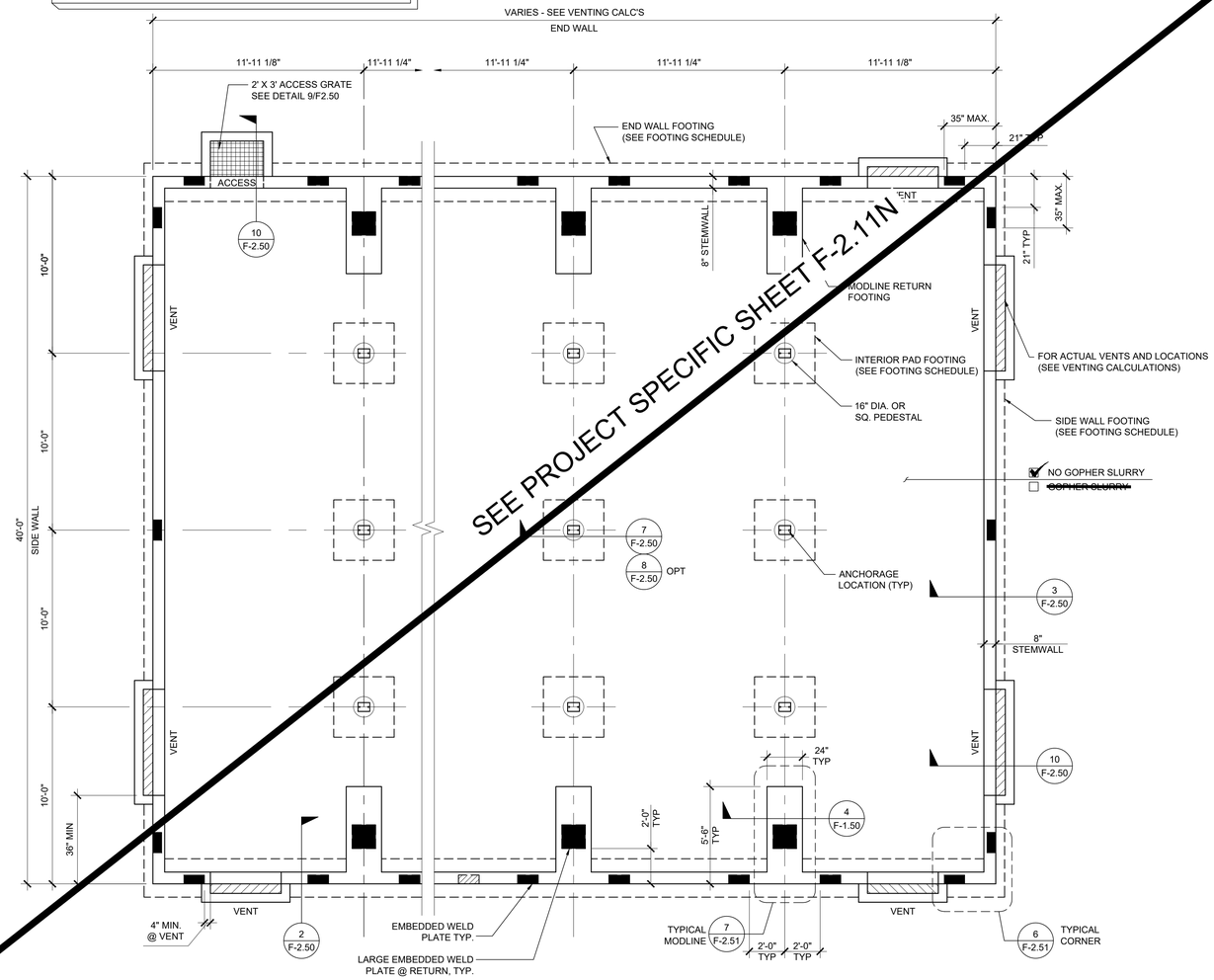
FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	SIDEWALL FOOTING	ENDWALL FOOTING	INTERIOR PAD FOOTING	PAD FOOTING AT SEPARATION
☐ 50 PSF	12" WIDE (2) #5 CONT T&B	18" WIDE (3) #5 CONT T&B	3'-2" SQ (3) #5 EW	4'-0" SQ (4) #5 EW
☑ 50 + 15 PSF	12" WIDE (2) #5 CONT T&B	18" WIDE (3) #5 CONT T&B	3'-2" SQ (3) #5 EW	4'-0" SQ (4) #5 EW
☐ 100 PSF	12" WIDE (2) #5 CONT T&B	18" WIDE (3) #5 CONT T&B	3'-6" SQ (3) #5 EW	4'-5" SQ (4) #5 EW
☐ 150 PSF	16" WIDE (2) #5 CONT T&B	20" WIDE (3) #5 CONT T&B	4'-2" SQ (4) #5 EW	5'-0" SQ (5) #5 EW

SYMBOLS LEGEND
- L-6x4x3/8x14 EMBED PLATE PER 9/F-2.51
- 6x8x3/8 EMBED PLATE PER 7/F-2.50
- 16x16x3/8 EMBED PLATE PER 14/F-2.51



FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" 2



SEE PROJECT SPECIFIC SHEET F-2.11N

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

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

CONCRETE FOUNDATION PLAN
BELOW GRADE CONCRETE FLOOR

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

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-2.11

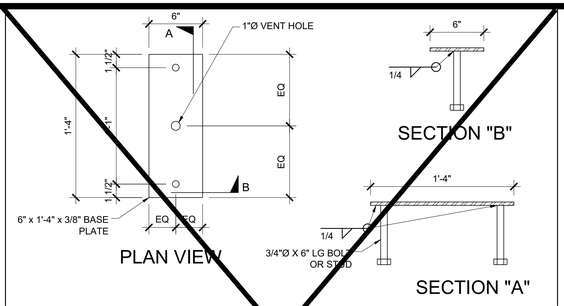
NOT USED

16

PIER PLATE (AT SEPARATION)

SCALE : 1 1/2" = 1'-0"

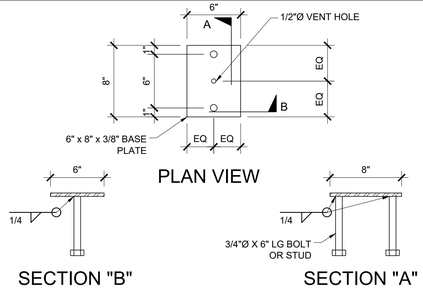
11



PIER PLATE

SCALE : 1 1/2" = 1'-0"

6

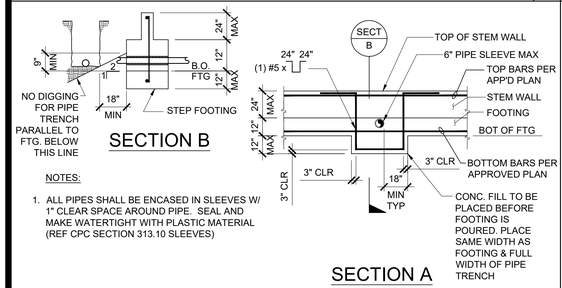


1

NOT USED

16

SECTION B / SECTION A



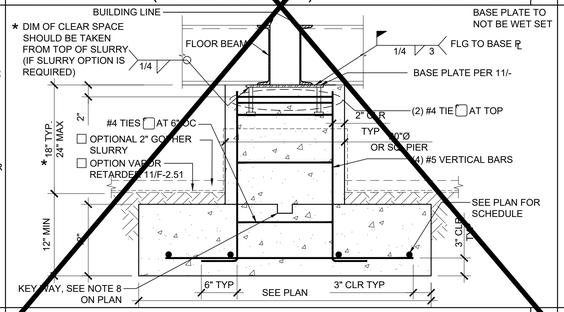
NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)

PIER PLATE (AT SEPARATION)

SCALE : 1 1/2" = 1'-0"

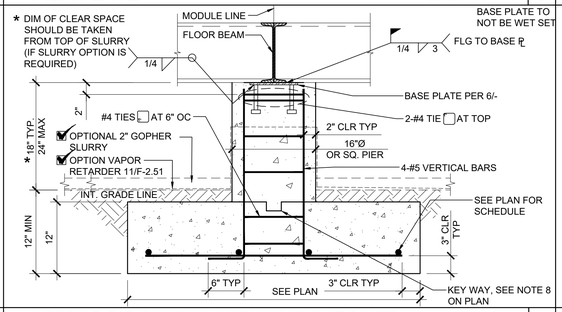
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PIER PLATE

SCALE : 1 1/2" = 1'-0"

6



1

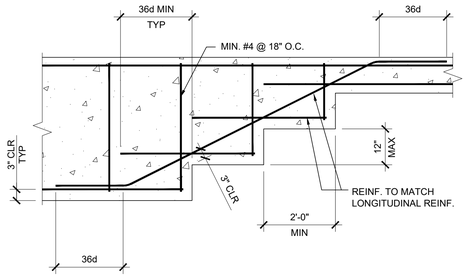
NOT USED

16

PIPE SLEEVE THRU FOUNDATION FOOTING

SCALE : 1/4"=1'-0"

17



INTERIOR PAD FOOTING (AT SEPARATION)

SCALE : 1" =1'-0"

12



INTERIOR PAD FOOTING (ATTACHMENT AT PLATE)

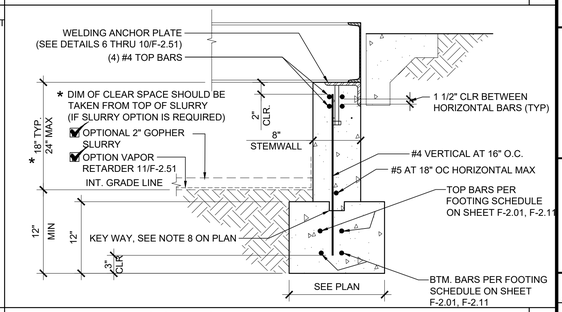
SCALE : 1" =1'-0"

7

END WALL FOOTING - WELDED

SCALE : 1" = 1'-0"

2



TYPICAL STEPPED FOOTING

SCALE : 1/2"=1'-0"

18

TYPICAL REINFORCING AT CORNER AND INTERSECTIONS

SCALE : 3/4"=1'-0"

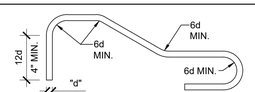
19

STANDARD HOOKS FOR PRIMARY REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER[a]
3 THROUGH 8	$6d_b$
9 THROUGH 11	$8d_b$
14 AND 18	$10d_b$

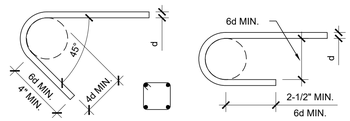
(a) MEASURED ON INSIDE OF BAR

STANDARD HOOKS FOR STIRRUPS AND TIE REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER[b]
3 THROUGH 5	$4d_b$
6 THROUGH 8	$6d_b$

(b) MEASURED ON INSIDE OF BAR



TYP. REINF. BENDING DETAIL



STIRRUP AND TIE HOOK STANDARD HOOK

TYPICAL REINFORCING BENDING DETAILS

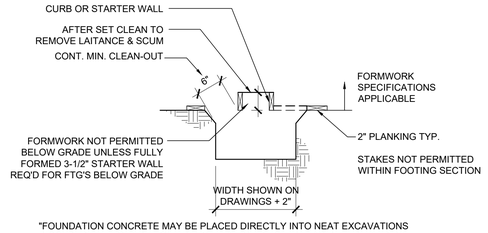
SCALE : 1 1/2" = 1'-0"

20

MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED)

SCALE : 1 1/2"=1'-0"

14

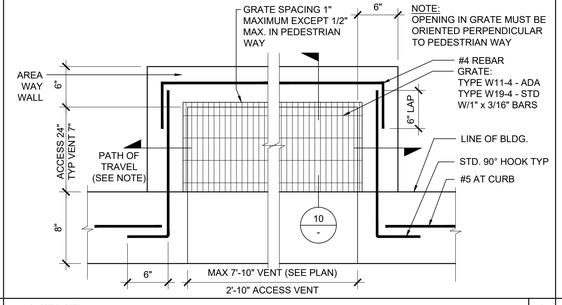


"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER). SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

VENT

SCALE : 1 1/2" = 1'-0"

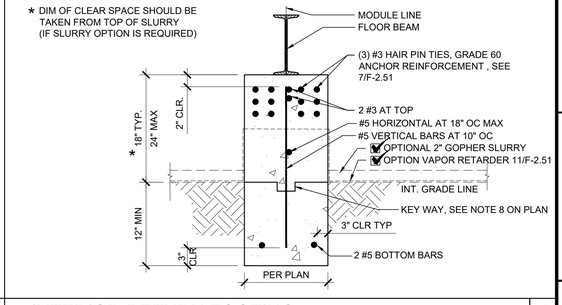
9



INTERIOR RETURN FOOTING

SCALE : 1" = 1'-0"

4



TYP. REINF. BENDING DETAIL

STIRRUP AND TIE HOOK STANDARD HOOK

TYPICAL REINFORCING BENDING DETAILS

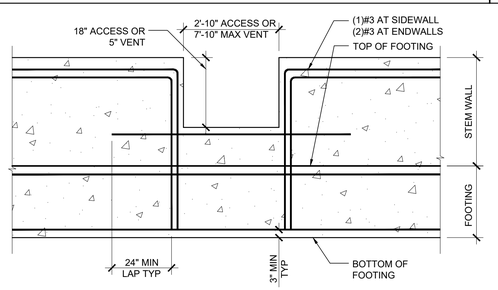
SCALE : 1 1/2" = 1'-0"

20

VENT OPENING

SCALE : 1" = 1'-0"

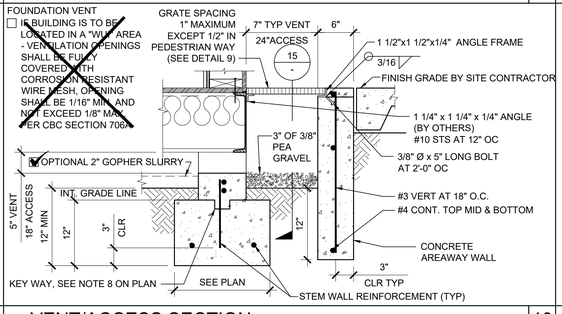
15



VENT/ACCESS SECTION

SCALE : 1" = 1'-0"

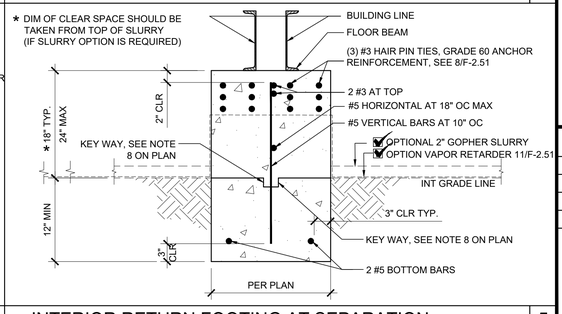
10



INTERIOR RETURN FOOTING AT SEPARATION

SCALE : 1" = 1'-0"

5



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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

CONCRETE FOUNDATION DETAILS
BELOW GRADE

REVISIONS

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3	
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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 STARLIN 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

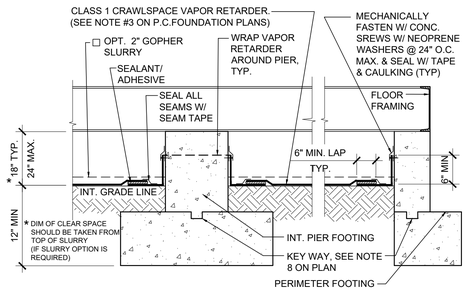
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

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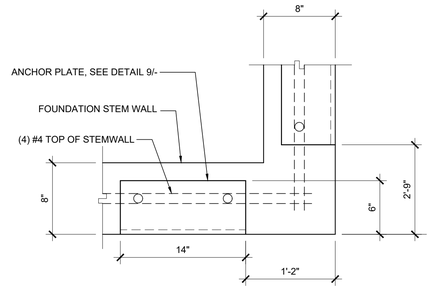
F-2.50

NOT USED 16

CRAWL SPACE VAPOR RETARDER SCALE: 3/4" = 1' - 0" 11

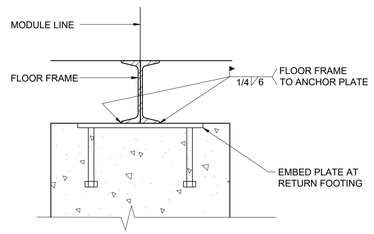


ANCHOR PLATE AT CORNER SCALE : 1 1/2" = 1'-0" 6

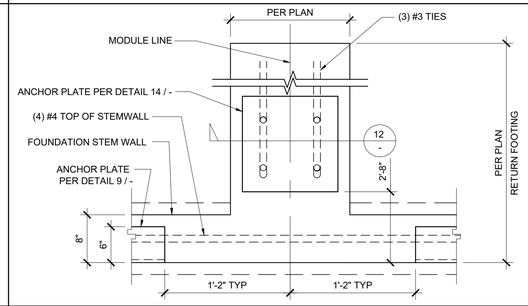


NOT USED 1

NOT USED 17



EMBED WELDING AT RETURN FOOTING SCALE : 1 1/2 = 1'-0" 12

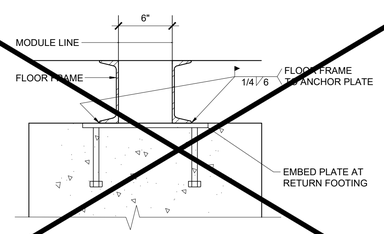


ANCHOR PLATE AT MODULE LINE SCALE : 1" = 1'-0" 7

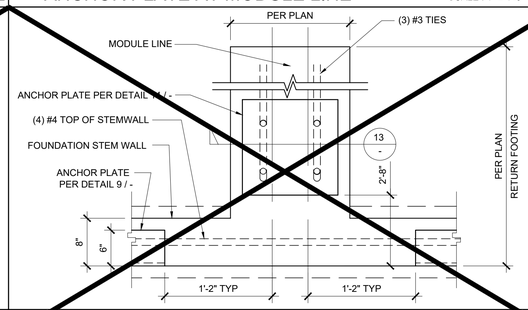
NOT USED 2

NOT USED 18

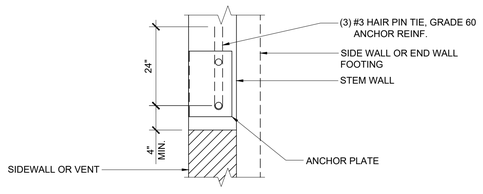
~~EMBED WELDING AT SEPERATION~~ SCALE : 1 1/2 = 1'-0" 13



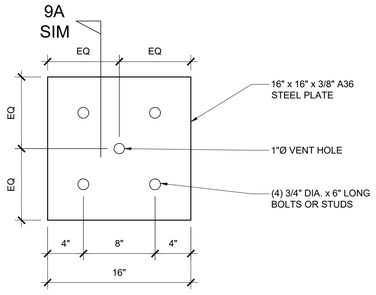
~~ANCHOR PLATE AT SEPARATION~~ SCALE : 1" = 1'-0" 8



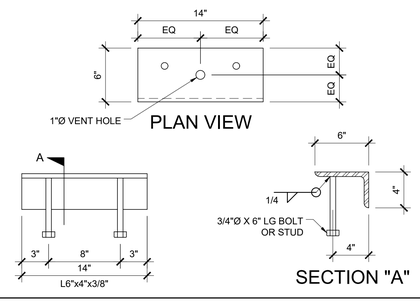
NOT USED 3



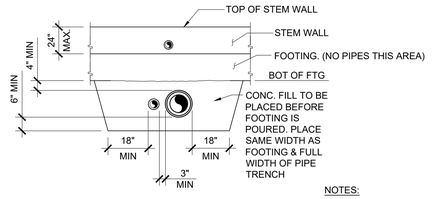
ANCHOR PLATE AT SIDEWALL OR ENDWALL @ VENT 19



LARGE EMBEDDED PLATE DETAIL SCALE : N.T.S. 14

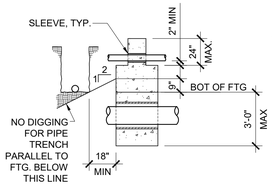


WELD ANGLE DETAIL SCALE : 1 1/2" = 1'-0" 9



NOTES:

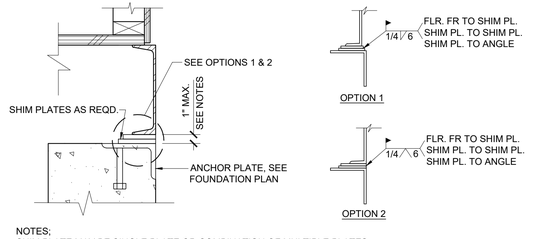
1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)
2. IF PIPE IS IN PLACE PRIOR TO POURING CONCRETE, WRAP PIPE WITH 1" GLASS WOOL OR POLYSTYRENE TAPE BEFORE POURING CONCRETE IN LIEU OF SLEEVES



PIPE SLEEVE DETAIL SCALE : 1/4 = 1'-0" 5

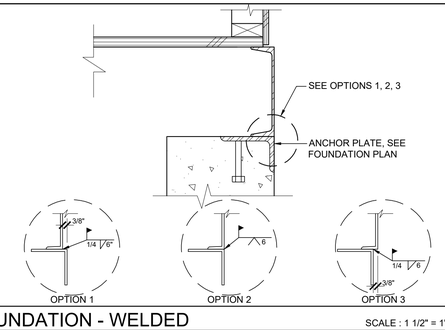
NOT USED 20

FOUNDATION WELDING W/ SHIM PLATES 15



NOTES;
SHIM PLATE MAY BE SINGLE PLATE OR COMBINATION OF MULTIPLE PLATES.
MIN.SHIM THICKNESS IS 1/4".
MAX. SHIM HEIGHT IS 1".
GAPS UP TO 1/4" DO NOT REQ. SHIM PLATE.

FOUNDATION - WELDED SCALE : 1 1/2" = 1'-0" 10



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DATE: 1/23/2026

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

FOUNDATION DETAILS
CONCRETE

REVISIONS

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PRE-CHECK (PC) DOCUMENT
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 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

F-2.51

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.

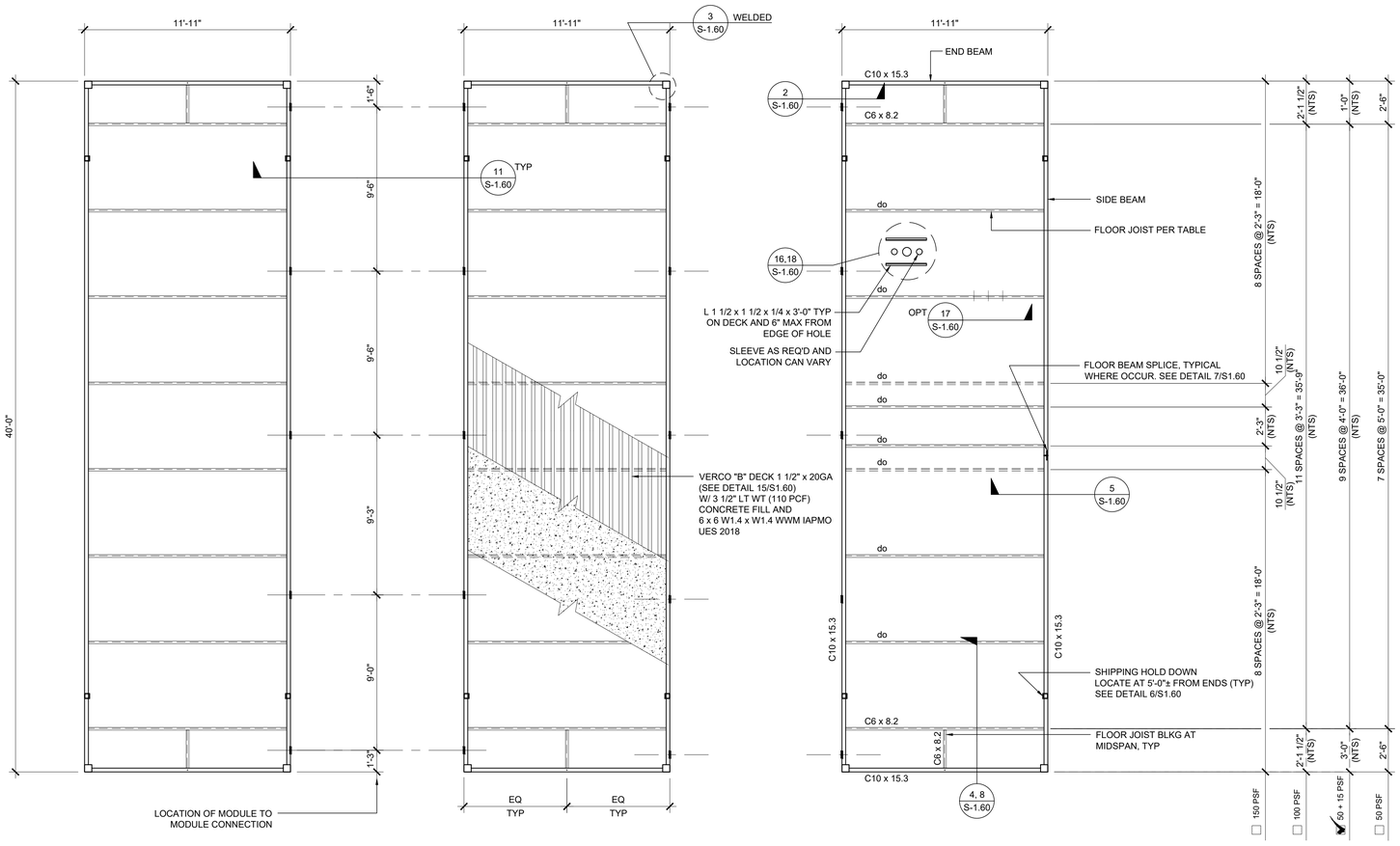
CONNECTION AND FASTENERS:
ALL CONNECTIONS AND FASTENERS AS STATED ON THESE DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT WITH ICC REPORTS AND APPROVAL BY DSA.

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

REAR



LEFT HAND MODULE

INTERIOR MODULE

RIGHT HAND MODULE

FRONT

FLOOR JOIST TABLE

	LIVE LOAD PSF	JOIST SPACING
☐	50	60"
☑	50 + 15	48"
☐	100	39"
☐	150	27"

1. HSS COLUMN SCHEDULES ON SHEETS S-3.01 THRU S-3.02

FLOOR FRAMING PLAN

SCALE: 1/4" = 1' - 0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

FLOOR FRAMING PLAN
CONCRETE 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: 01-121999 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

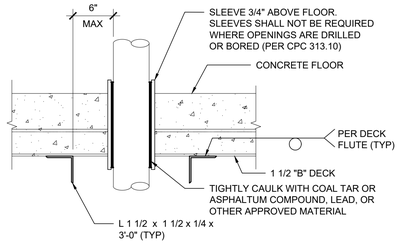
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUP
24575
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

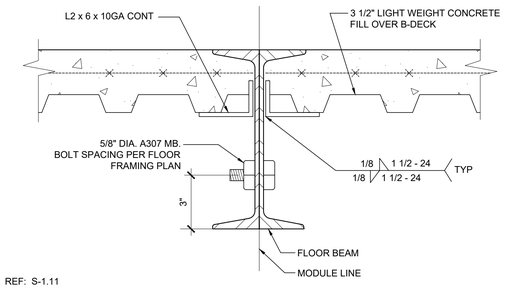
S-1.11



REF: S-1.11

FLOOR PENETRATION

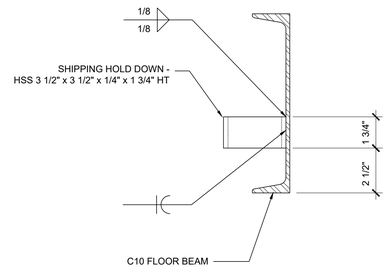
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REF: S-1.11

MODULE LINE - BOLTED CONNECTION

SCALE : 3" = 1'-0" | 11

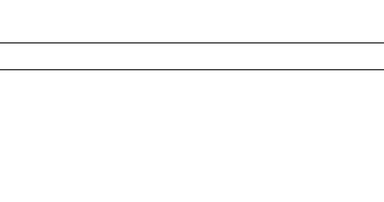


REF: S-1.11

SHIPPING HOLD DOWN DETAIL

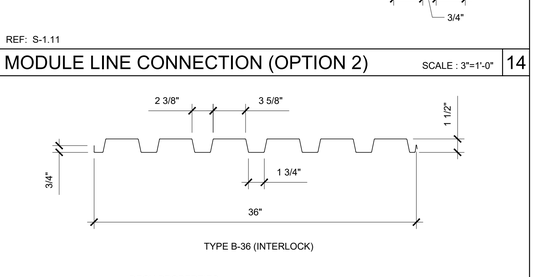
SCALE : 3"=1'-0" | 6

| 1



FLOOR JOIST HOLES (OPTIONAL)

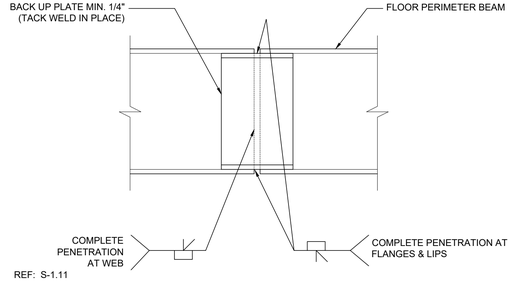
SCALE : 1/8" = 1'-0" | 17



REF: S-1.11

MODULE LINE CONNECTION (OPTION 1)

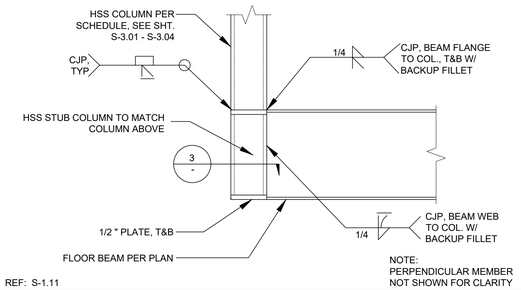
SCALE : 3" = 1'-0" | 12



REF: S-1.11

FLOOR BEAM SPLICE

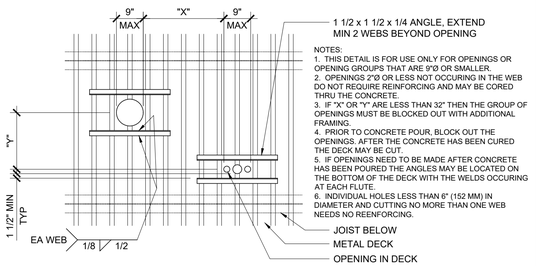
SCALE : 3" = 1'-0" | 7



REF: S-1.11

FLOOR BEAM TO COLUMN CONNECTION

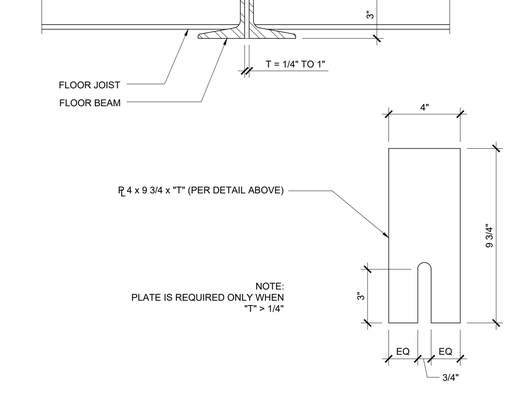
SCALE : 1 1/2" = 1'-0" | 2



NOTES:
1. THIS DETAIL IS FOR USE ONLY FOR OPENINGS OR OPENING GROUPS THAT ARE 9"Ø OR SMALLER.
2. OPENINGS 2"Ø OR LESS NOT OCCURING IN THE WEB DO NOT REQUIRE REINFORCING AND MAY BE CORED THRU THE CONCRETE.
3. IF "X" OR "Y" ARE LESS THAN 32" THEN THE GROUP OF OPENINGS MUST BE BLOCKED OUT WITH ADDITIONAL FRAMING.
4. PRIOR TO CONCRETE POUR, BLOCK OUT THE OPENINGS. AFTER THE CONCRETE HAS BEEN CURED THE DECK MAY BE CUT.
5. IF OPENINGS NEED TO BE MADE AFTER CONCRETE HAS BEEN POURED THE ANGLES MAY BE LOCATED ON THE BOTTOM OF THE DECK WITH THE WELDS OCCURING AT EACH FLUTE.
6. INDIVIDUAL HOLES LESS THAN 6" (152 MM) IN DIAMETER AND CUTTING NO MORE THAN ONE WEB NEEDS NO REENFORCING.

PENETRATIONS IN DECK (OPTION)

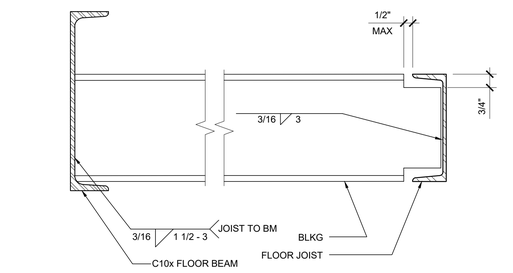
SCALE : 1/2"=1'-0" | 18



REF: S-1.11

MODULE LINE CONNECTION (OPTION 2)

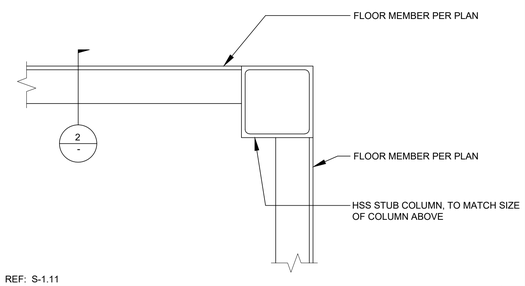
SCALE : 3"=1'-0" | 14



REF: S-1.11

BLOCKING TO JOIST

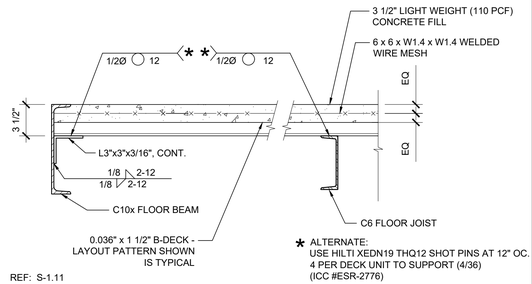
SCALE : 3"=1'-0" | 8



REF: S-1.11

CORNER CONNECTION

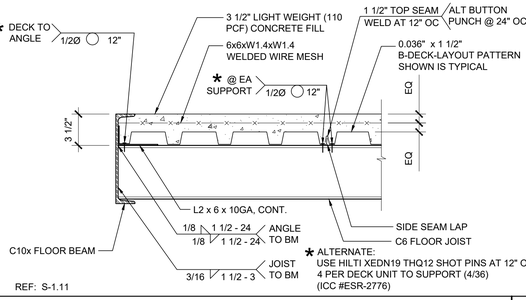
SCALE : 3" = 1'-0" | 3



REF: S-1.11

DECK AT END BEAM

SCALE : 1 1/2" = 1'-0" | 4



REF: S-1.11

JOIST TO SIDE BEAM

SCALE : 1 1/2" = 1'-0" | 5

NOT USED

| 19

TYPE B-36 (INTERLOCK)

DECK PROPERTIES:
TYPE: B
THICKNESS (IN): 0.036"
I (IN^4): 0.22
POSITIVE (IN^3): 0.235
NEGATIVE (IN^3): 0.246

REF: S-1.11

FLOOR DECK PROPERTY

SCALE : 1 1/2" = 1'-0" | 15

| 10

| 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

FLOOR FRAMING DETAIL
CONCRETE 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: 01-121999 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

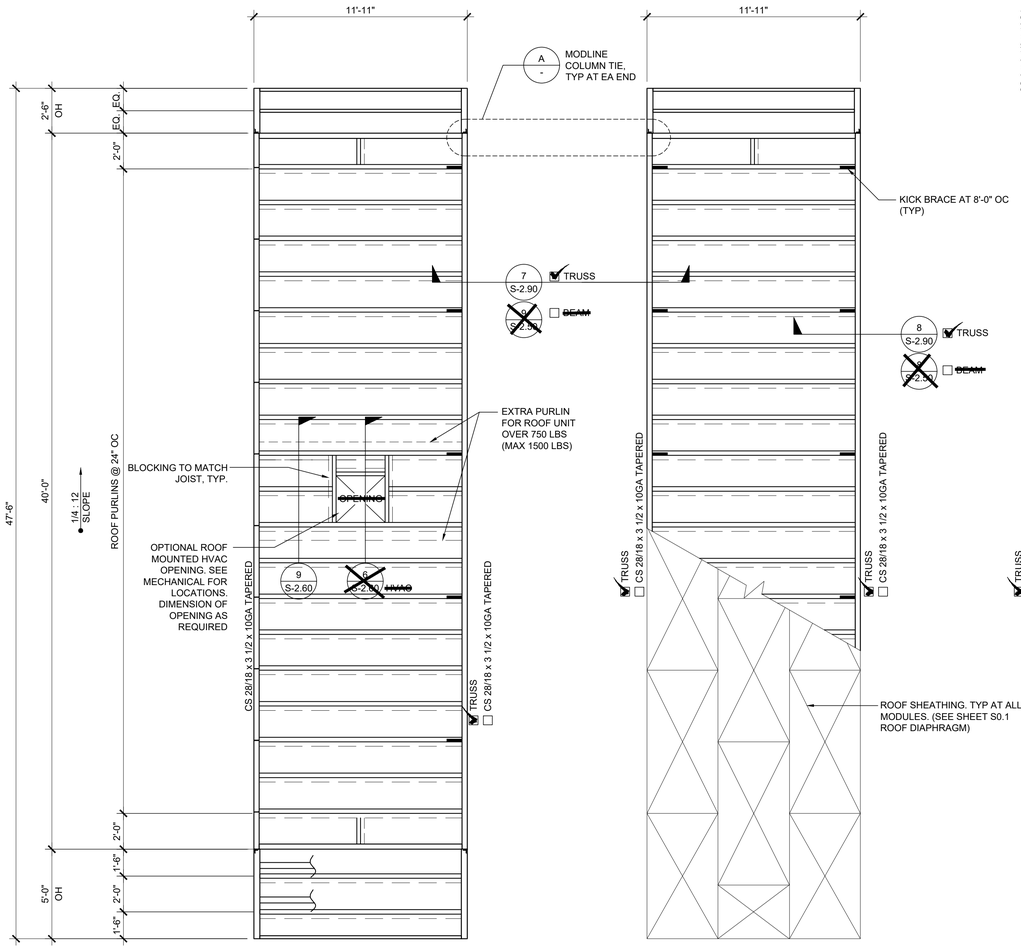
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

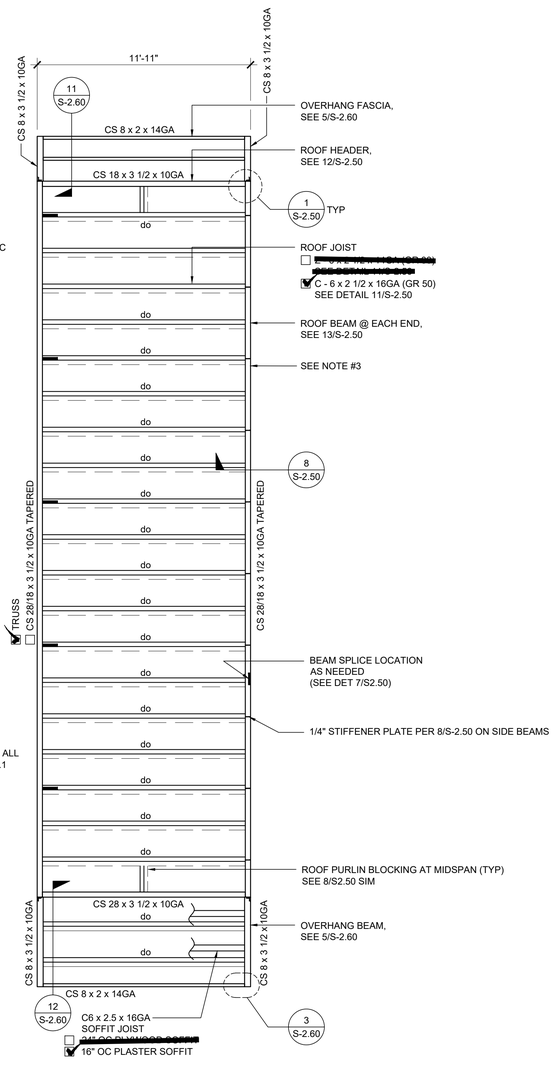
P.C. SHEET NUMBER

S-1.60



LEFT HAND MODULE

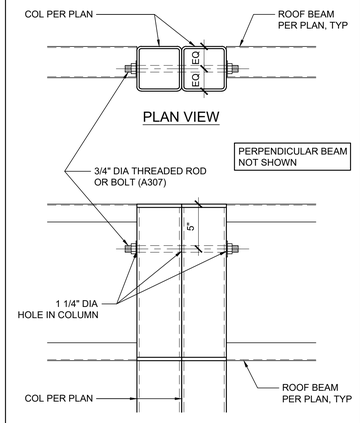
INTERIOR MODULE



RIGHT HAND MODULE

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ROOF FRAMING PLAN
MONO SLOPE

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
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 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

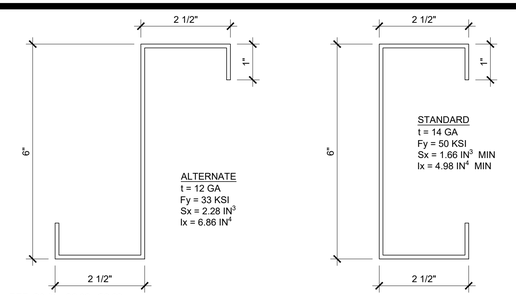
ROOF FRAMING PLAN

SCALE: 1/4" = 1' - 0" | 1

NOT USED 16

ROOF PURLIN

SCALE : 6"=1'-0" 11

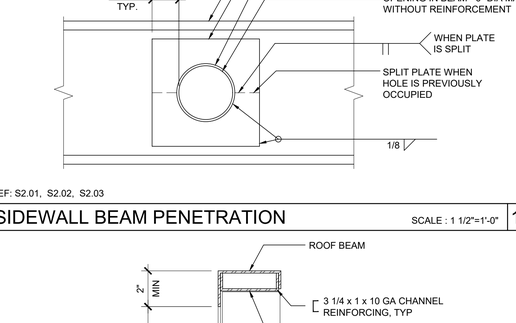


REF: S2.01, S2.02, S2.03

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)

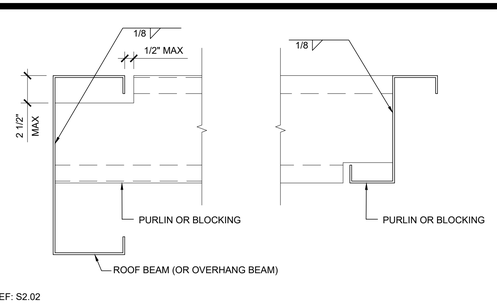
SCALE : 3" = 1'-0" 15

REF: S2.01, S2.02, S2.03, S2.50

NOT USED 21

ROOF PURLIN

SCALE : 6"=1'-0" 11

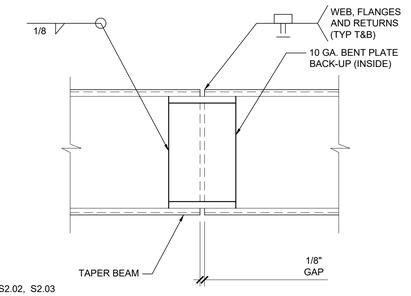


REF: S2.02

NOT USED 22

TYPICAL PURLIN CONNECTION DETAIL

SCALE : 3" = 1'-0" 6



REF: S2.01, S2.02, S2.03

NOT USED 23

BEAM SPLICE

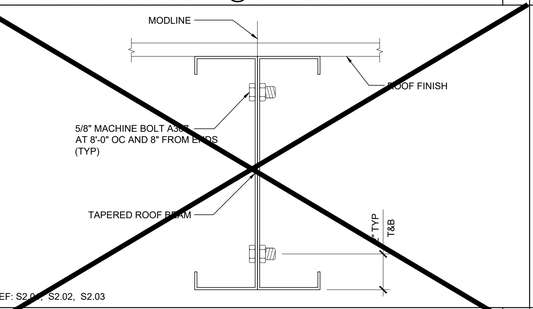
SCALE: 3" = 1'-0" 7

REF: S2.01, S2.02, S2.03

NOT USED 24

PURLIN TO ROOF BEAM @ STIFFENER

SCALE : 3"=1'-0" 8



REF: S2.01, S2.02, S2.03

NOT USED 25

OPENING AT ROOF BEAM (OPTION)

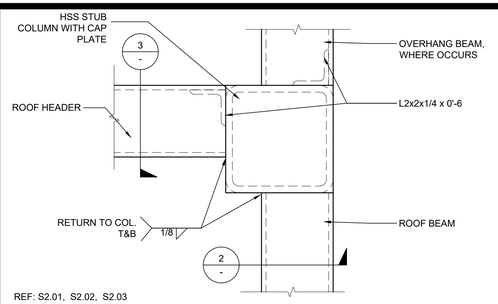
SCALE : 1 1/2" = 1'-0" 10

REF: S2.01, S2.02, S2.03

NOT USED 26

COLUMN AT ROOF - PLAN

SCALE : 3" = 1'-0" 1

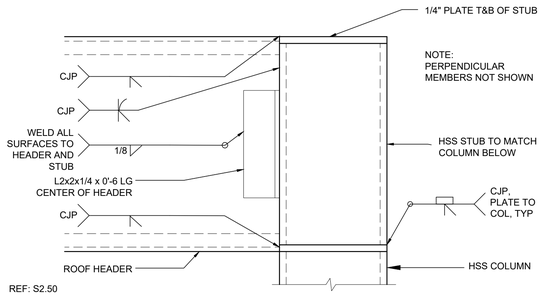


REF: S2.01, S2.02, S2.03

NOT USED 27

COLUMN AT ROOF - SECTION

SCALE : 3" = 1'-0" 2



REF: S2.50

NOT USED 28

COLUMN AT ROOF OVERHANG

SCALE : 3" = 1'-0" 3

REF: S2.50

NOT USED 29

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: 01-122855 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ROOF FRAMING DETAILS
MONO SLOPE

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
24175
STRUCTURAL
STATE OF CALIFORNIA

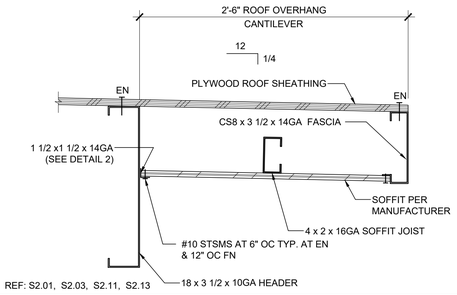
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

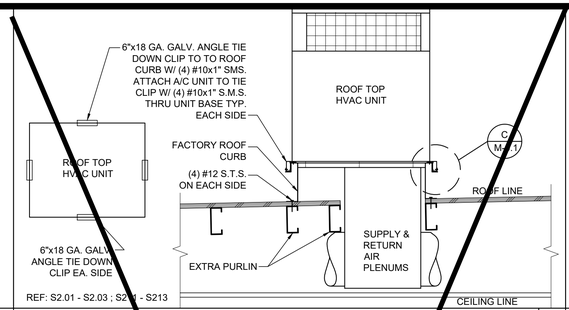
S-2.50

NOT USED 16



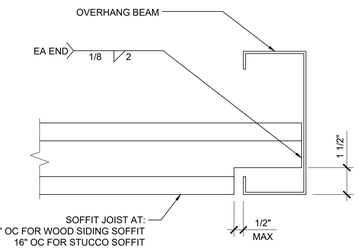
REF: S2.01, S2.03, S2.11, S2.13

REAR OVERHANG SECTION SCALE : 1 1/2" = 1'-0" 11



REF: S2.01 - S2.03 ; S211 - S213

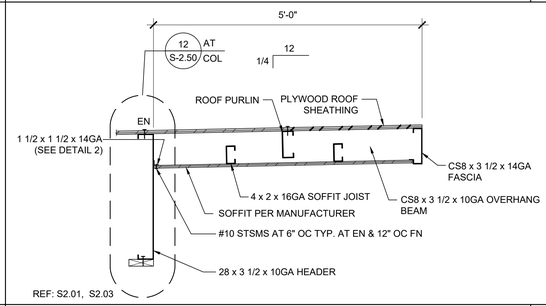
HVAC CURB ATTACHMENT SCALE : 3/4" = 1'-0" 6



REF: S3.01

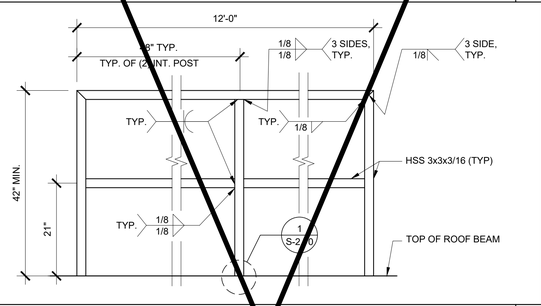
SOFFIT JOIST TO OVERHANG BEAM SCALE : 3"=1'-0" 1

NOT USED 17

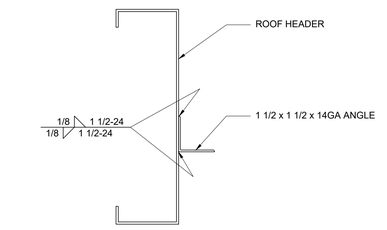


REF: S2.01, S2.03

FRONT OVERHANG SECTION - MONO SLOPE SCALE: 3/4" = 1'-0" 12

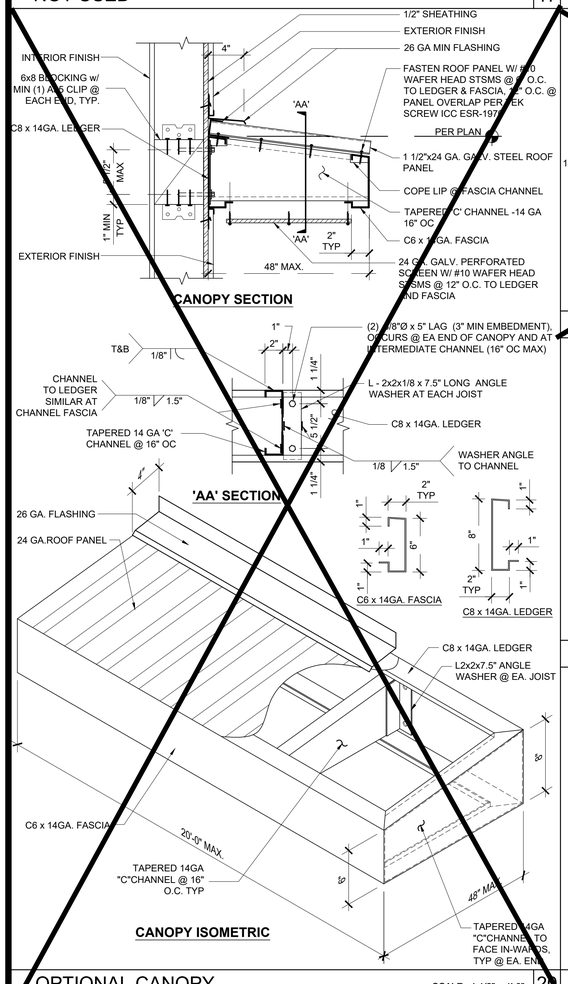


GUARDRAIL AT SIDEWALL SCALE : 3/4"=1'-0" 7

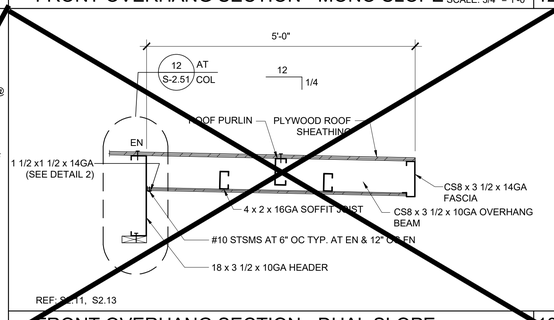


REF: S3.01

SOFFIT ANGLE TO HEADER CONNECTION SCALE : 3"=1'-0" 2



OPTIONAL CANOPY SCALE : 1 1/2" = 1'-0" 20

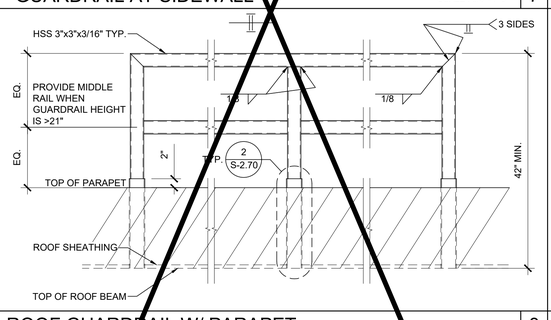


REF: S2.11, S2.13

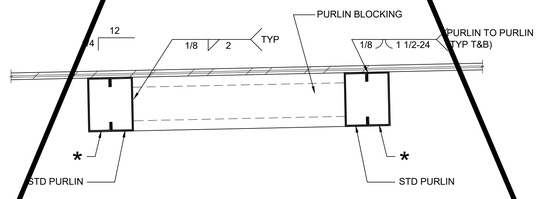
FRONT OVERHANG SECTION - DUAL SLOPE SCALE: 3/4" = 1'-0" 13

NOT USED 14

NOT USED 15

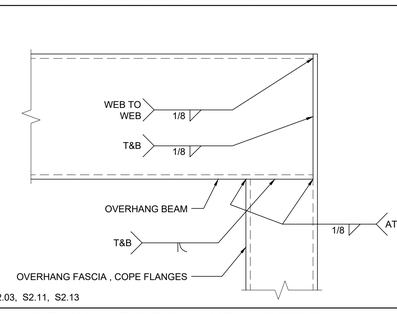


ROOF GUARDRAIL W/ PARAPET SCALE : 3/4" = 1'-0" 8



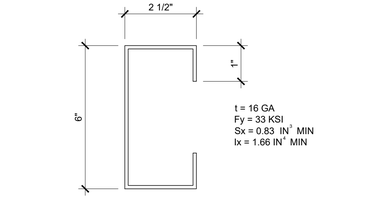
REF: S2.01 - S2.03 ; S211 - S213

DOUBLE PURLINS AT HVAC SCALE: 1 1/2" = 1'-0" 9



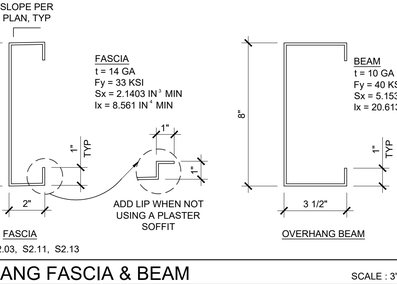
REF: S2.01, S2.03, S2.11, S2.13

OVERHANG FASCIA TO BEAM CONNECTION SCALE : 6"=1'-0" 3



REF: S2.01, S2.03, S2.11, S2.13, S3.01

SOFFIT JOIST SCALE : 6"=1'-0" 4



REF: S2.01, S2.03, S2.11, S2.13

OVERHANG FASCIA & BEAM SCALE : 3"=1'-0" 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ROOF FRAMING DETAILS

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: 01-121999 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

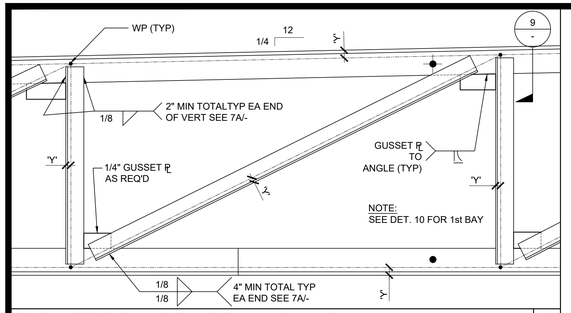
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24075
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

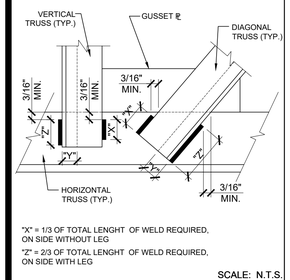
P.C. SHEET NUMBER

S-2.60



TYP. VERTICAL & DIAGONAL (U.N.O.)

SCALE: 1 1/2" = 1' - 0" | 6

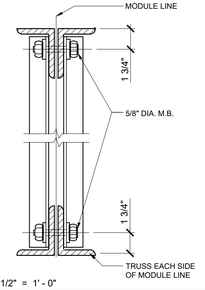


"X" = 1/3 OF TOTAL LENGHT OF WELD REQUIRED, ON SIDE WITHOUT LEG

"Z" = 2/3 OF TOTAL LENGHT OF WELD REQUIRED, ON SIDE WITH LEG

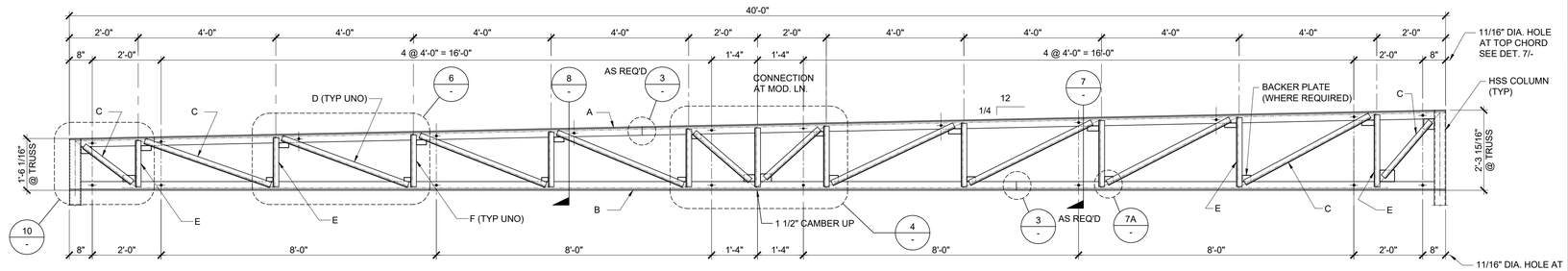
SCALE: N.T.S.

FILLET WELD TERMINATION | 7A



SCALE: 1 1/2" = 1' - 0"

CONNECTION @ MODULE LINE | 7



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

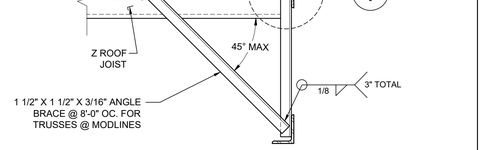
REF: ROOF FRAMING PLAN

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

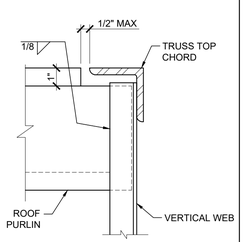
MONO SLOPE TRUSS

SCALE: 1/2" = 1' - 0" | 1



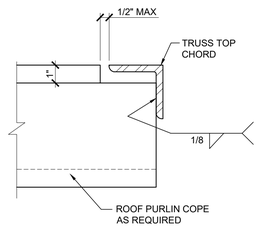
BRACE @ TRUSS & MATING LINE

SCALE: 1 1/2" = 1' - 0" | 8

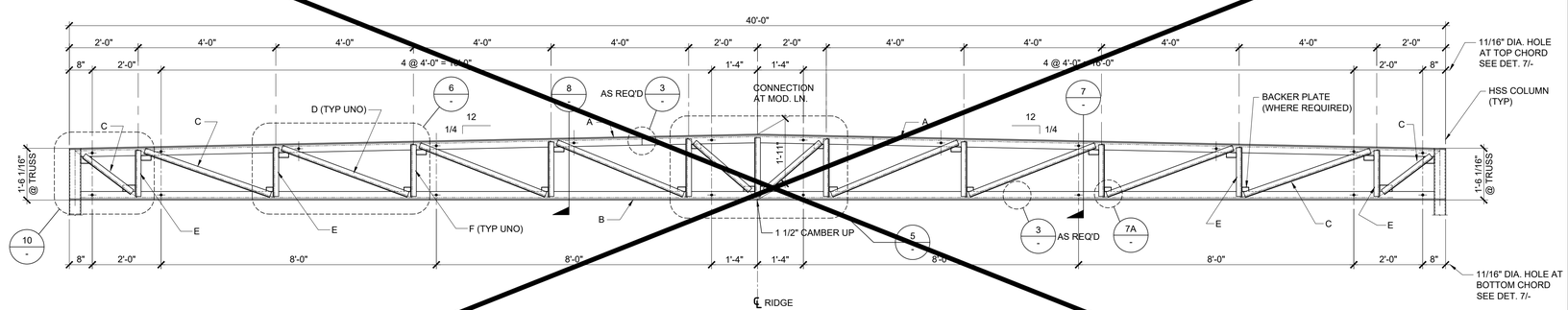


SCALE: 3" = 1' - 0"

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

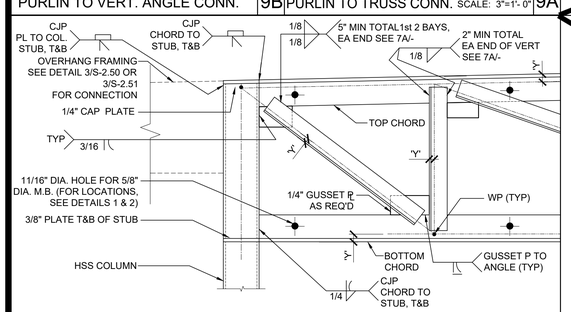
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F	TYPICAL VERTICALS	1 1/2" x 1 1/2" x 10 GA.	7/16

NOTE; "Y" MAY BE 1/4" MAX. OUT OF ALIGNMENT

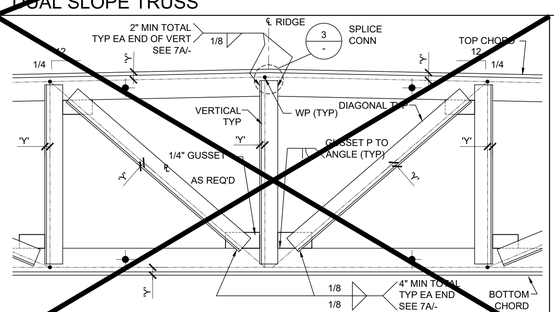
DUAL SLOPE TRUSS

SCALE: 1/2" = 1' - 0" | 2



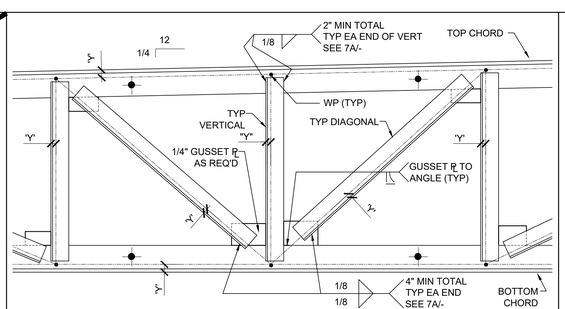
TRUSS TO COLUMN / OH FRAME CONN.

SCALE: 1 1/2" = 1' - 0" | 10



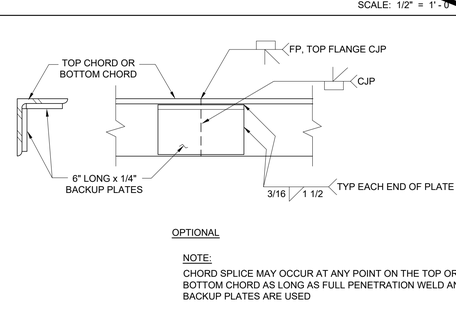
VERT. & DIAG. AT MID-POINT

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ROOF FRAMING DETAILS
TRUSS

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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IDENTIFICATION STAMP
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APP: 01-121999 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

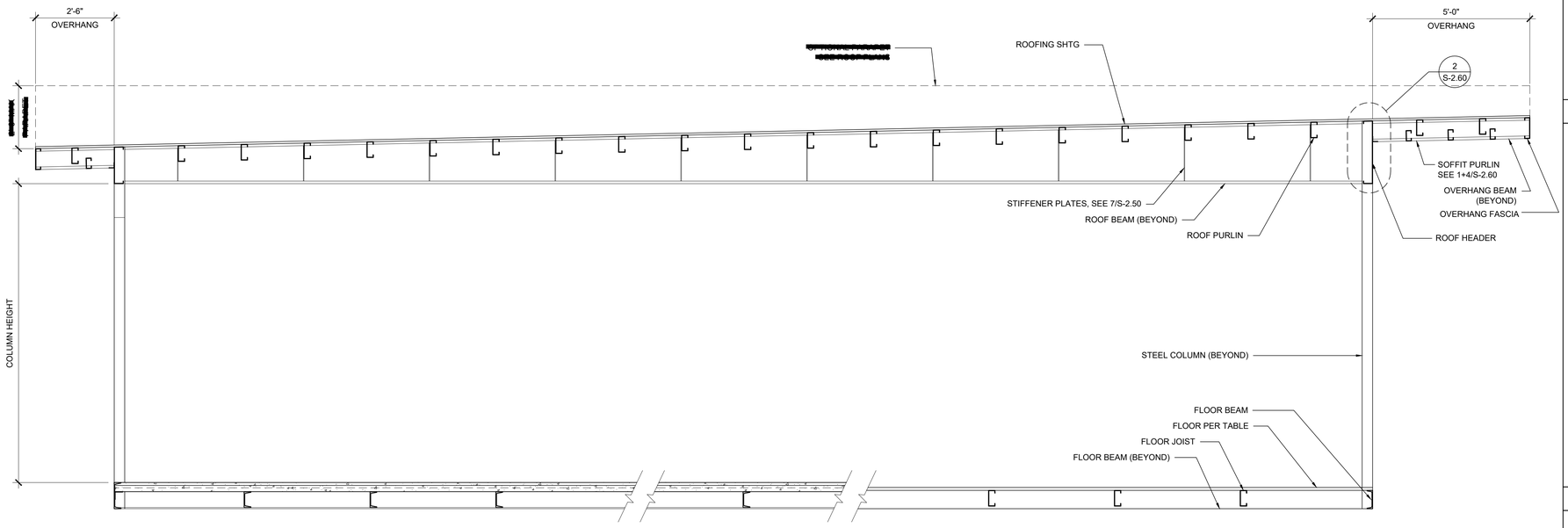
REGISTERED PROFESSIONAL ENGINEER JOHN 'W STARLING' 24575 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

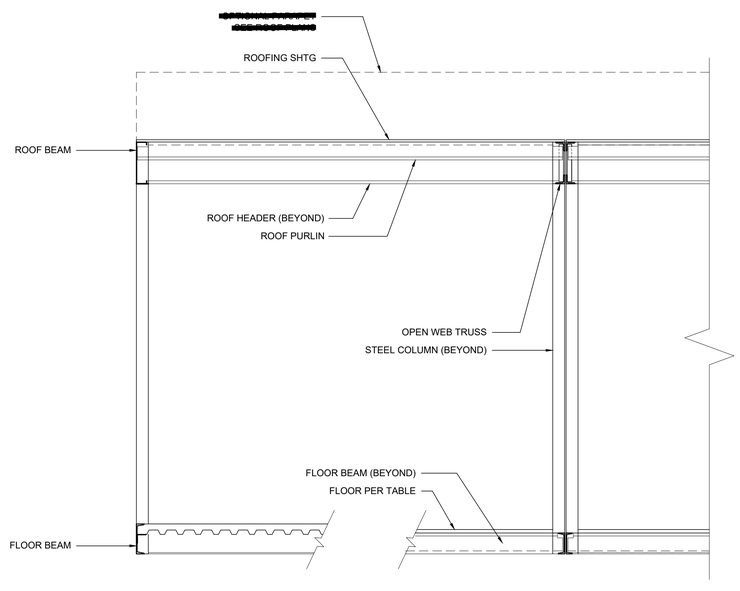
P.C. SHEET NUMBER

S-2.90



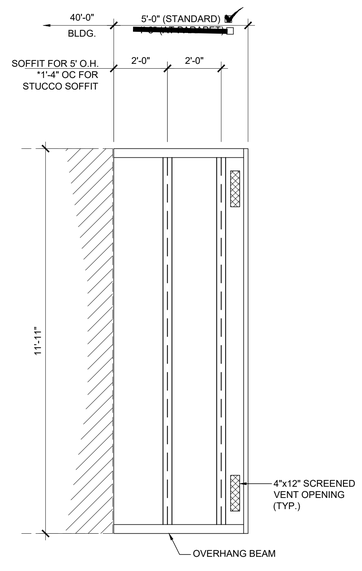
BUILDING SECTION

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

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SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

BUILDING SECTIONS
MONO SLOPE

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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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

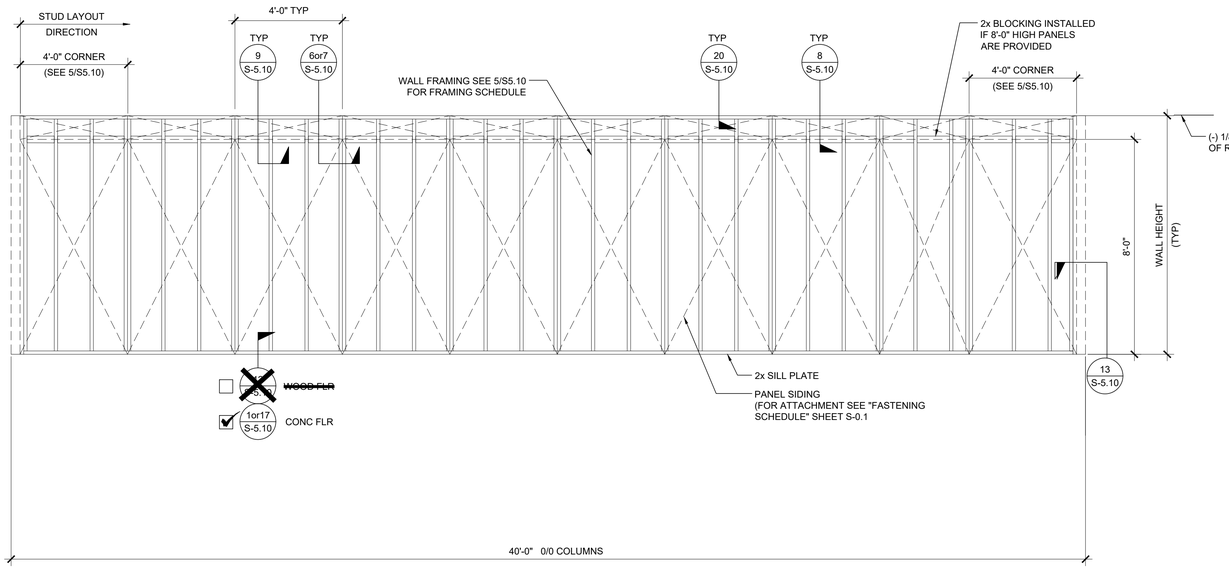
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

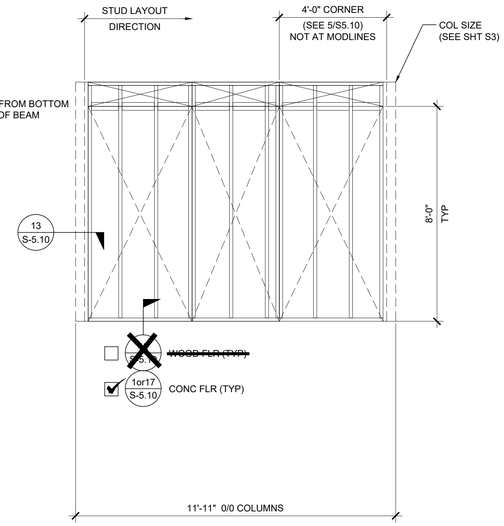
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

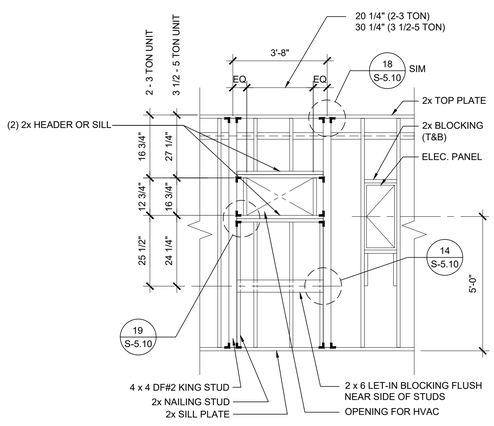
S-3.01



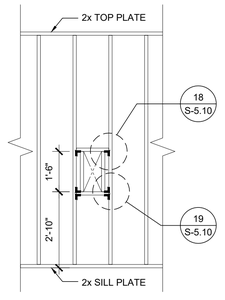
TYPICAL SIDE WALL



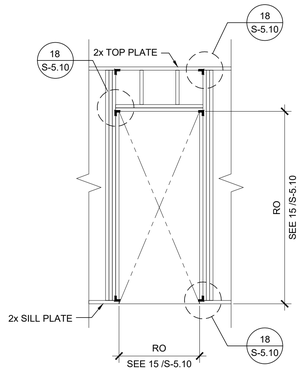
TYPICAL END WALL



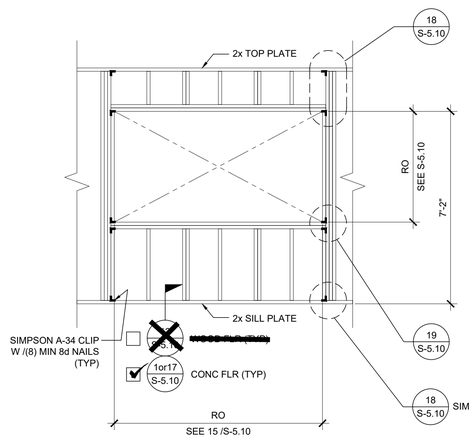
TYPICAL HVAC



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
APP: 01-122855 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

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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DIV. OF THE STATE ARCHITECT
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

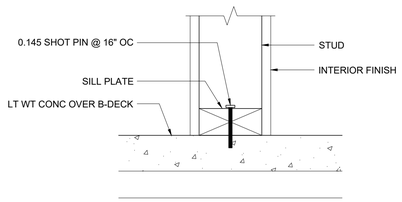
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

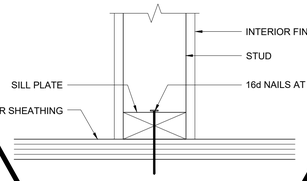
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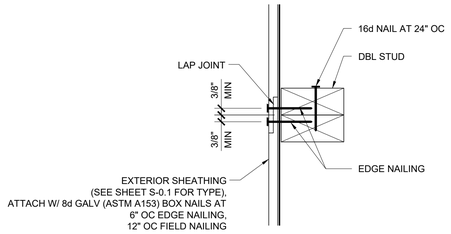
S-5.00



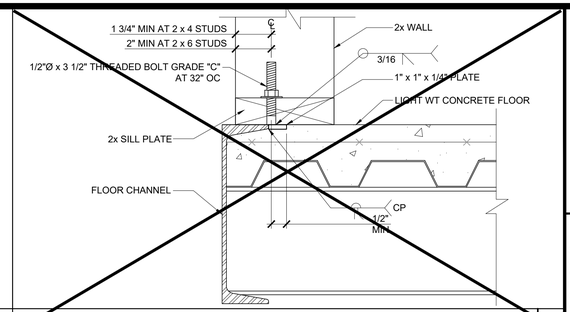
PARTITION CONNECTION AT CONC FLOOR SCALE : 3"=1'-0" 16



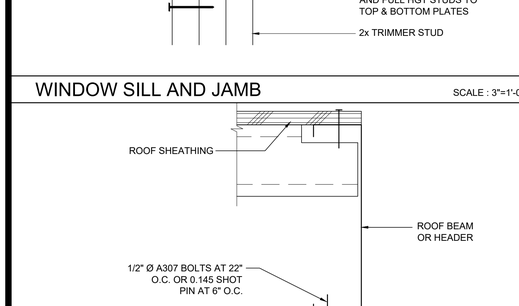
PARTITION CONNECTION AT WOOD FLOOR SCALE : 3"=1'-0" 11



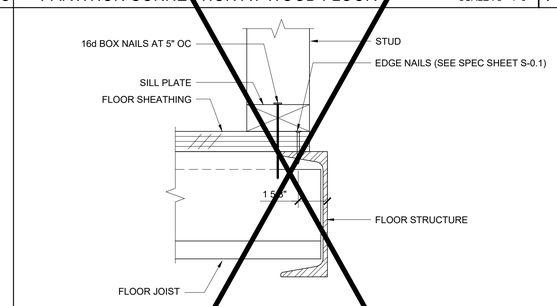
VERTICAL SHEATHING LAP JOINT SCALE : 3"=1'-0" 6



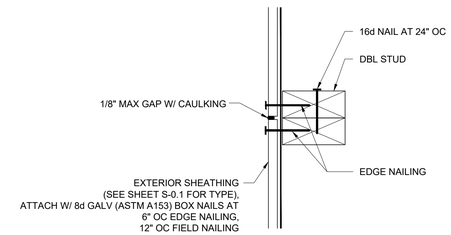
OPTIONAL BOLTED WALL TO FLOOR SCALE : NTS 1



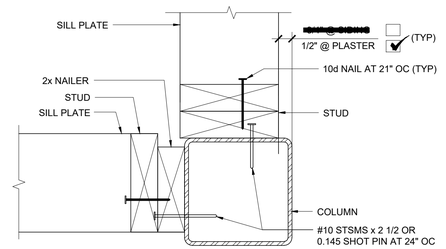
WALL SILL AT CONCRETE FLOOR SCALE : 3"=1'-0" 17



WALL SILL AT WOOD FLOOR SCALE : 3"=1'-0" 12



VERTICAL SHEATHING BUTT JOINT SCALE : 3"=1'-0" 7



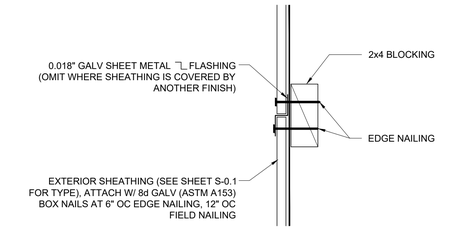
COLUMN AT ENDWALL (2x6) SCALE : 3"=1'-0" 2

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
		EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
COLUMN HEIGHT	OPENING SIZE		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.

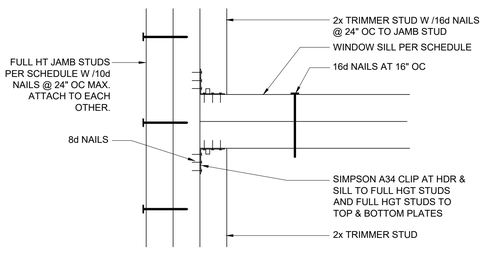
DOOR/WINDOW HEADER AND JAMB SCALE : 1 1/2"=1'-0" 18

COLUMN AT ENDWALL (2x4) SCALE : 3"=1'-0" 13

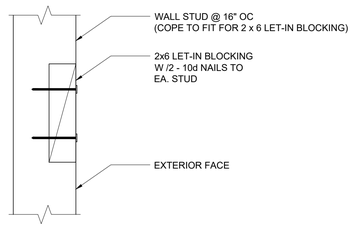


HORIZONTAL SHEATHING JOINT SCALE : 3"=1'-0" 8

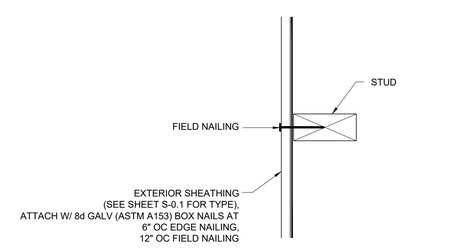
NOTE:
OPENINGS LARGER THAN 3'x7' ARE NOT PERMITTED IN 2x4 WALLS WITH PLASTER FINISH.



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

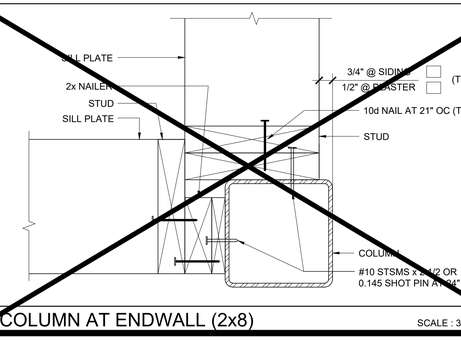
2x4 OPENING STUDS SCHEDULE 4

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

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121999 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

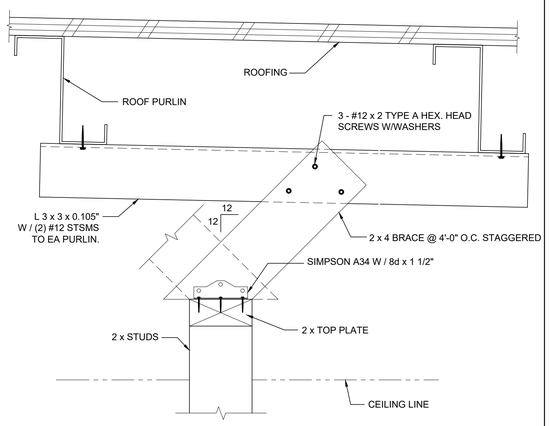
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24975
STRUCTURAL
STATE OF CALIFORNIA

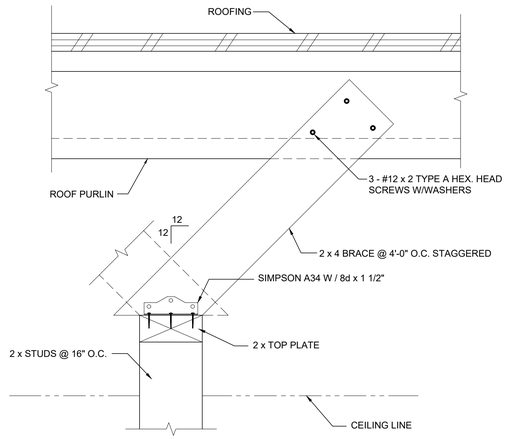
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

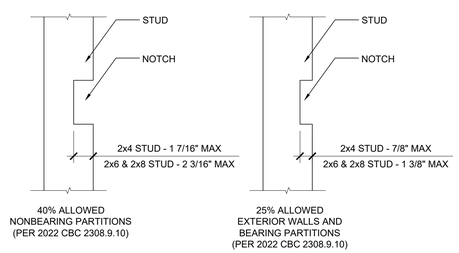
P.C. SHEET NUMBER
S-5.10

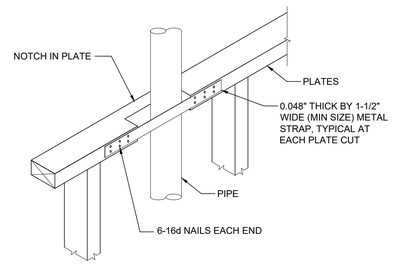


INTERIOR PARTITION SCALE : 3" = 1'-0" 14

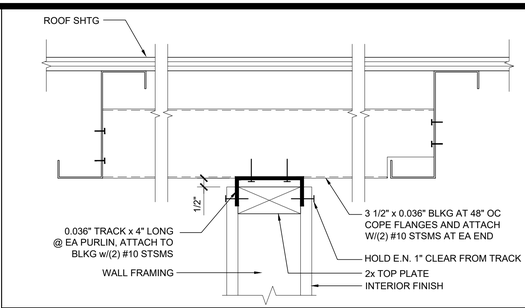


INTERIOR PARTITION SCALE : 3" = 1'-0" 12

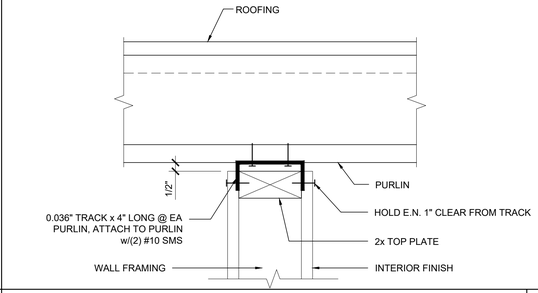




CUTTING AND NOTCHING SCALE : 1 1/2" = 1'-0" 7



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

BORED HOLES SCALE : 1 1/2" = 1'-0" 8

INTERIOR PARTITION WALL TO ROOF BEAM SCALE : 3"=1'-0" 3

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

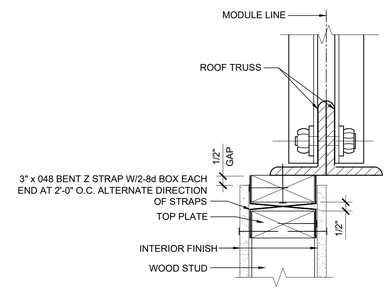
COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING					4" CORNER OF WOOD WALL FRAMING (ZONE 5)				
		NUMBER	SIZE	LUMBER	TYPE	OC	NUMBER	SIZE	LUMBER	TYPE	OC
UP TO 10'-6"	NO PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC
	W/ PLASTER	(1)	2X8	HF	#2	16" 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

NOT USED 9

NOT USED 10



INTERIOR PARTITION WALL TO ROOF TRUSS SCALE : 3"=1'-0" 4

5

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DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

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

~~IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121999 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

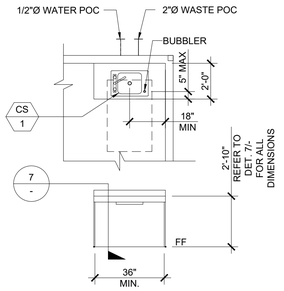
REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

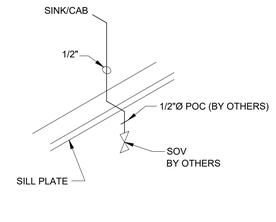
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

S-5.11



TYPICAL SINK CABINET 11

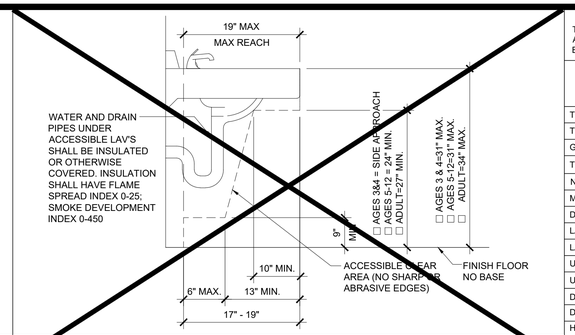


SINK CABINET COLD WATER SUPPLY SCALE: N.T.S. 12

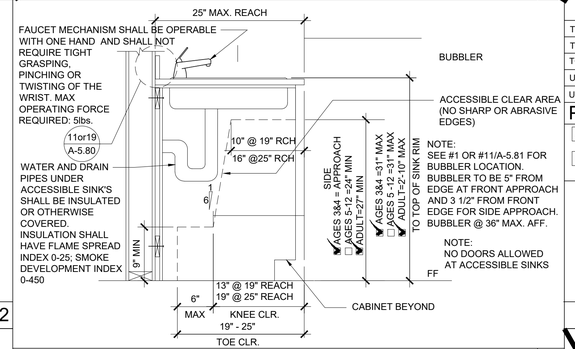
SINK CABINET WASTE 13

TYPICAL TOILET ROOM PLAN 14

TOILET ROOM COLD WATER SUPPLY AND WASTE 15



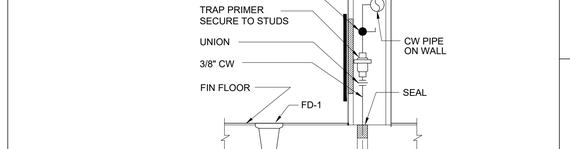
ACCESSIBLE LAV CLEARANCE SCALE: N.T.S. 6



ACCESSIBLE SINK CABINET (OPTION) SCALE: N.T.S. 7

TRAP PRIMER TO FLOOR DRAIN SCALE: N.T.S. 8

TOILET ACCESSORIES MOUNTING HEIGHTS 10



GRAB BAR CONNECTION DETAIL 9

THE DIVISION OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES ACCEPTS THE FOLLOWING DIMENSIONS AS ADEQUATELY SERVING THE NEEDS OF CHILDREN IN PROJECTS UNDER THEIR JURISDICTION. THESE DIMENSIONS ARE BASED ON CBC TABLE 11B-604.9 SUGGESTED DIMENSIONS FOR SERVING CHILDREN AGES 3 TO 12.

ACCESSIBILITY DIMENSIONS	11B-604.9 SUGGESTED DIMS			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL	17" - 18"	15" - 18"	12" - 15"	12"
TOILET SEAT HEIGHT (DIM TO TOP OF SEAT)	17" - 19"	15" - 17"	12" - 15"	11" - 12"
GRAB BAR HEIGHT (TO TOP)	33" - 36"	25" - 27"	20" - 25"	18" - 20"
TOILET PAPER IN FRONT OF TOILET	7" - 9"	7" - 9"	7" - 9"	7" - 9"
NAPKIN DISPOSAL	**	**	N/A	N/A
MIRROR HEIGHT (TO BOTTOM OF GLASS)	40" MAX.	40" MAX.	36" MAX.	[redacted]
DISPENSER HEIGHT	19" MIN.	17" - 19"	14" - 17"	14"
LAVATORY/SINK TOP HEIGHT	34" MAX.	31" MAX.	31" MAX.	24" MAX. 31" MAX. SIDE APPROACH
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	27" MIN.	27" MIN.	SIDE APPROACH
URINAL LIP HEIGHT	17" MAX.	17" MAX.	15" MAX.	[redacted]
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	37" MAX.	[redacted] *
DRINKING FOUNTAIN BUBBLER HT. (LOW)	36" MAX.	30" MAX.	30" MAX.	[redacted]
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	SIDE APPROACH	SIDE APPROACH	[redacted]
HANDRAIL HEIGHT (TO TOP)	34" - 38"	34" - 38"	34" - 38"	[redacted]

STANDARD DIMENSIONS	ALTERNATE HEIGHT (DIMS)			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL/PARTITION	15" MIN	15" MIN	15" MIN	15" MIN
TOILET SEAT HEIGHT/DIM TO TOP OF SEAT	15"	15"	15"	15"
TOILET CLEARANCE/FRONT	[redacted]	[redacted]	[redacted]	24"
URINAL LIP HEIGHT	24"	24"	18"	[redacted]
URINAL CENTER FROM WALL/PARTITION	12"	12"	12"	[redacted]

PLUMBING ACCESSORIES (REF. ONLY-MODELS FURNISHED AND INSTALLED BY DISTRICT U.N.O.)

A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX. PROJECTION

B PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30x48 CLEAR SPACE OF FIXTURE

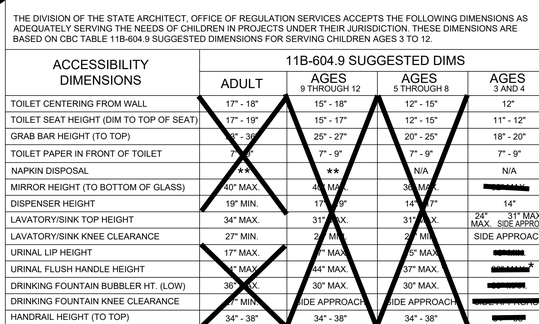
C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION

D TOILET SEAT DISPENSER: SURFACE MOUNTED

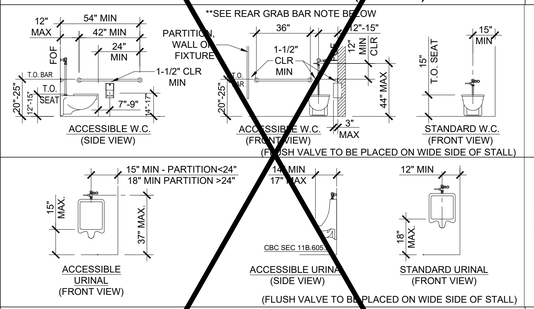
★ 44" MAX. PER CODE

★★ MOUNTED BETWEEN BACK WALL AND TOILET PAPER DISP.

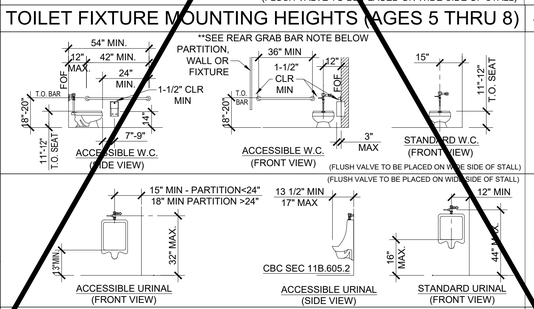
MOUNTING HEIGHTS TABLE 19



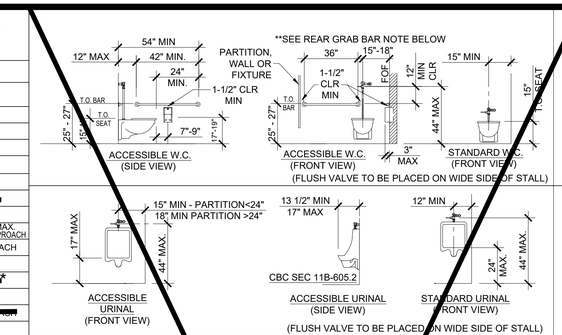
TOILET FIXTURE MOUNTING HEIGHTS (ADULT) 3



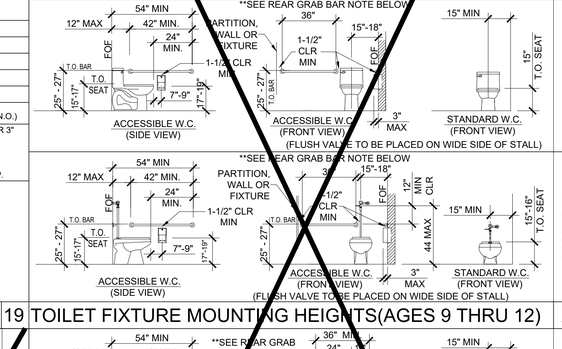
TOILET FIXTURE MOUNTING HEIGHTS (AGES 5 THRU 8) 4



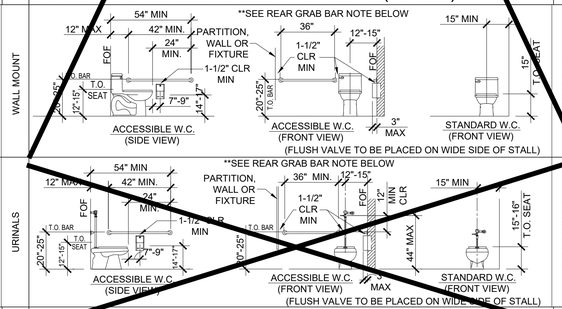
TOILET FIXTURE MOUNTING HEIGHTS (AGES 3 AND 4) 5



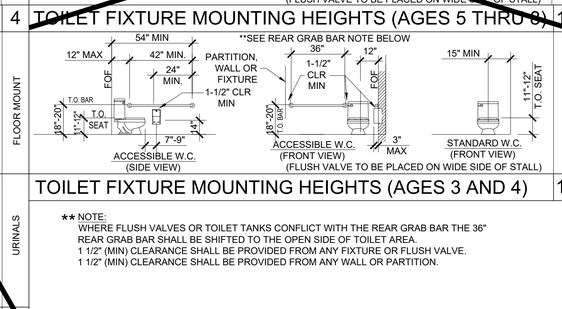
TOILET FIXTURE MOUNTING HEIGHTS (AGES 9 THRU 12) 1



TOILET FIXTURE MOUNTING HEIGHTS (AGES 5 THRU 8) 17



TOILET FIXTURE MOUNTING HEIGHTS (AGES 9 THRU 12) 2



TOILET FIXTURE MOUNTING HEIGHTS (AGES 3 AND 4) 18

** NOTE:
WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR THE 36" REAR GRAB BAR SHALL BE SHIFTED TO THE OPEN SIDE OF TOILET AREA.
1 1/2" (MIN) CLEARANCE SHALL BE PROVIDED FROM ANY FIXTURE OR FLUSH VALVE.
1 1/2" (MIN) CLEARANCE SHALL BE PROVIDED FROM ANY WALL OR PARTITION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

PLUMBING DETAILS AND SCHEDULE

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: 01-121999 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 STARULA
24975
STRUCTURAL
STATE OF CALIFORNIA

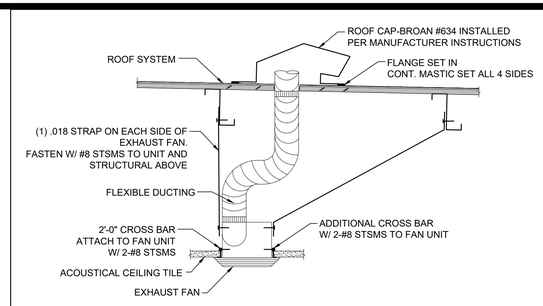
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
P-1.01

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"

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.

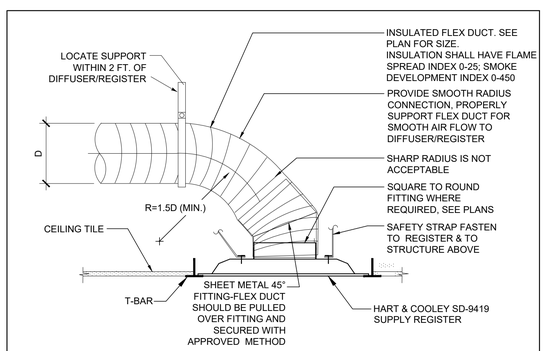
* OR APPROVED EQUAL.

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	



T-BAR SUPPLY REGISTER AND SIDE OUTLET BOX DETAIL

N.T.S.

SUPPLY CEILING DIFFUSER MOUNTING

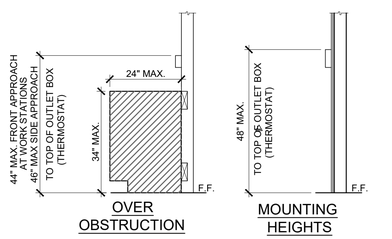
SCALE: NONE — D

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.



△ PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

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 #) #----------.

TABLE 140.4-E AIR ECONOMIZER HIGH LIMIT SHUT OFF CONTROL REQUIREMENTS

Device Type[a]	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 Dry-bulb	All	$h_{OA} > 28$ Btu/lb[d] or $T_{OA} > 75°F$	Outdoor air enthalpy exceeds 28 Btu/lb of dry air[d] or Outdoor air temperature exceeds 75°F

[a] 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.

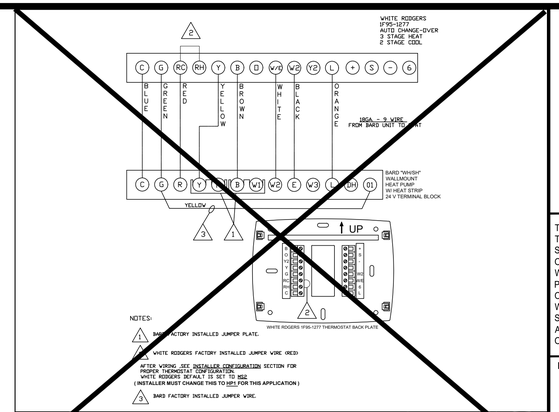
1. **Required Algorithms and Schedules:**
   Time Schedule
   Setpoint Schedule (temperature)
2. **Occupancy Status:**
   The occupancy status is determined by an occupancy sensor.
3. **Demand Control Ventilation:**
   The indoor CO2 concentration is monitored with a sensor in each room.

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.

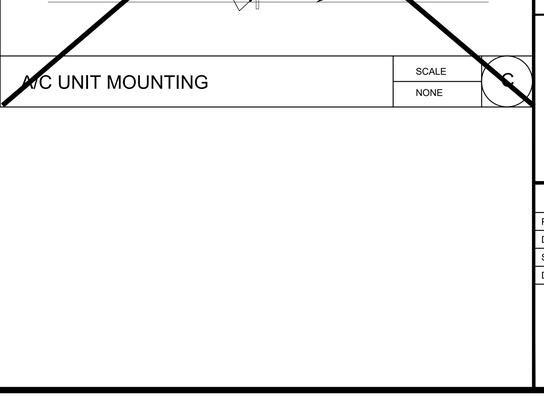


NOTES:

1. BARD FACTORY INSTALLED JUMPER PLATE.
2. WHITE RODGERS FACTORY INSTALLED JUMPER WIRE (RED)
   AFTER WIRING, SEE INSTALLER CONFIGURATION SECTION FOR PROPER THERMOSTAT SETTINGS.
   (THERMOSTAT MUST BE SET TO HP2)
   (INSTALLER MUST CHANGE THIS TO HP1 FOR THIS APPLICATION)
3. BARD FACTORY INSTALLED JUMPER WIRE.

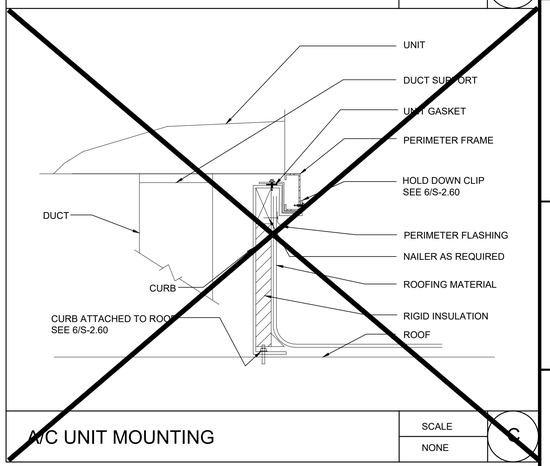
UNIT TO THERMOSTAT WIRING

SCALE: NONE — A



RETURN CEILING DIFFUSER MOUNTING

SCALE: NONE — B



A/C UNIT MOUNTING

SCALE: NONE — C

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE: 1/23/2026

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

MECHANICAL NOTES, SCHEDULES, & DETAILS

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
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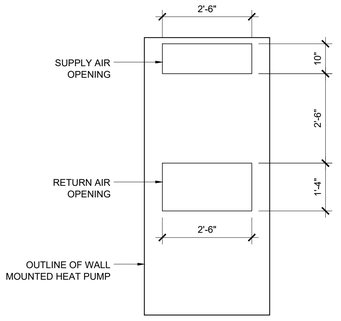
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29075 STRUCTURAL STATE OF CALIFORNIA

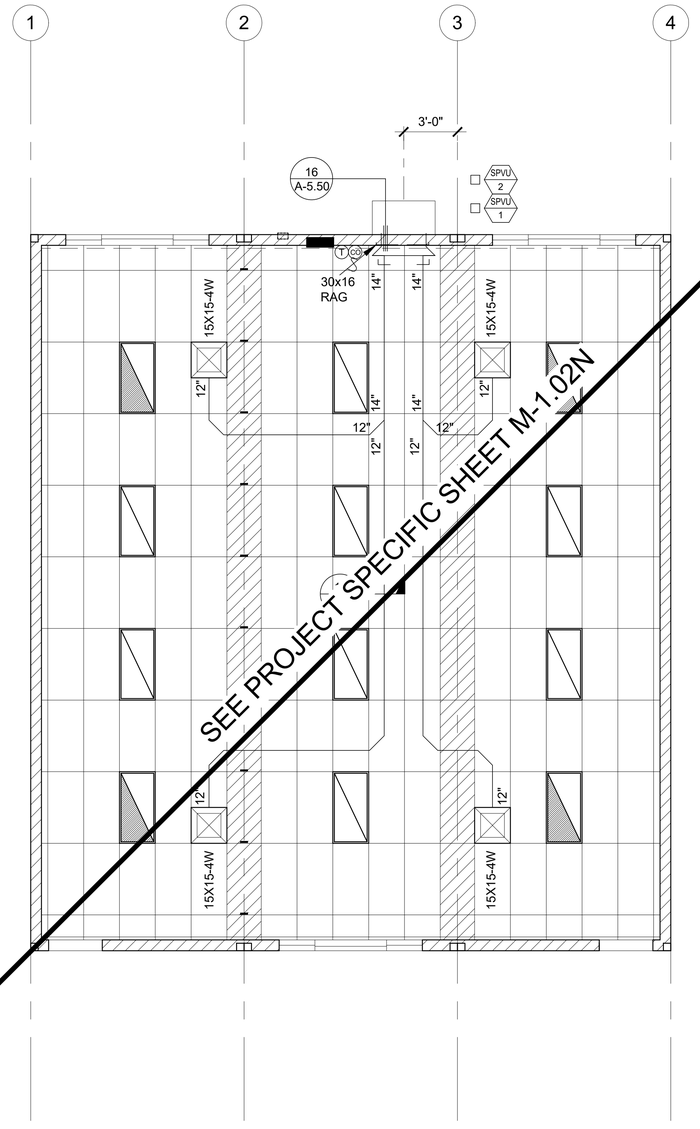
SILVER CREEK INDUSTRIES	24' x 40' PC
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

M-0.1



WALL MOUNTED HEAT PUMP DIAGRAM | SCALE: NONE | A



MECHANICAL PLAN - STANDARD 4 LIGHT CONFIGURATION | SCALE: 1/4" = 1'-0" | 1

WALL MOUNTED MECHANICAL EQUIPMENT SCHEDULE			
	SPVU-1	SPVU-2	
HVAC Equipment Make and Model	BARD #W60HC-A00VN	BARD #T6051-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	3.7	
Voltage	230/208-1	230	
MCA	42		
MCOP	60		
Wire Size (Pwr/ Grnd)	8 / 10		
Thermostat:			
Make and Model	Venstar #T6900SCH	T6900SCH	
Setback	Yes	Yes	
Heat Pumps	Yes	Yes	
Shut-off and Reset:	Occupancy S	Occupancy Sensor	
Economizer:			
Make and Model	Inte	Integrated	
Controls	Fixe	Fixed Dry Bulb	
Fault Detection		Yes	
Outside Air Damper Position		Varies	
Demand Control Ventilation		Yes	
Minimum DCV Outside Air in CFM	M / SF	0.15 CFM / SF	
Minimum Designed Outside Air in CFM	e Below	See Below	
Demand Shed Thermostat	NA	NA	
Operating Weight	595 #	660 #	

NOTES:
PROVIDE SET-BACK THERMOS[illegible]
DESIGNED MINIMUM OUTS[illegible] BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT
PROVIDE AN OCCUPANCY [illegible] WITH AN AUTOMATIC SHUT DOWN CONTROLS
PROVIDE 2" MERV 13 F[illegible]
AIR HANDLERS WITH [illegible] AGES SHALL BE ACCEPTABLE.
AIR HANDLERS OTH[illegible] E MAKE AND MODEL LISTED ABOVE SHALL BE ACCEPTABLE WHEN THE NOMINAL TONN[illegible] T TO THE INDICATED TONNAGE AND THE EER AND COP VALUES ARE NO LESS THAN THOSE S[illegible] E.
PROVIDE A [illegible] WITH LCD DISPLAY (CARROER #33ZCSPT02LCD-01 or EQUAL) ADJACENT TO THE THERMOS[illegible] ED AT +48" AFF.
PROVIDE A h[illegible] ELL 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:

36' X 40' CLASSROOM

MINIMUM REQUIRED VENTILATION
ROOM AREA = 1,440 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 1,440 X 0.38 = 548 CFM

VENTILATION AS DESIGNED
BUILDING AREA = 1,440 SF
OCCUPANCY FOR EGRESS PURPOSES = 1,440 / 20 = 72 OCCUPANTS
EXPECTED # OF OCCUPANTS = 72 OCCUPANTS X 0.50 = 36 OCUPANTS
REQUIRED VENTILATION RATE = 15 CFM / OCCUPANT
REQUIRED OUTSIDE AIR VOLUME = 36 X 15 = 540 CFM

NOTE:
THE DEMAND CONTROL VENTILATION SYSTEM SHALL NOT BE REQUIRED TO PROVIDE OUTSIDE AIR IN EXCESS OF THE DESIGNED VOLUME INDICATED ABOVE. THE DEMAND CONTROL VENTILATION 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.

SEE PROJECT SPECIFIC SHEET M-1.02N

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122855 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

MECHANICAL PLAN
WALL MOUNT
36' 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: 01-121999 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

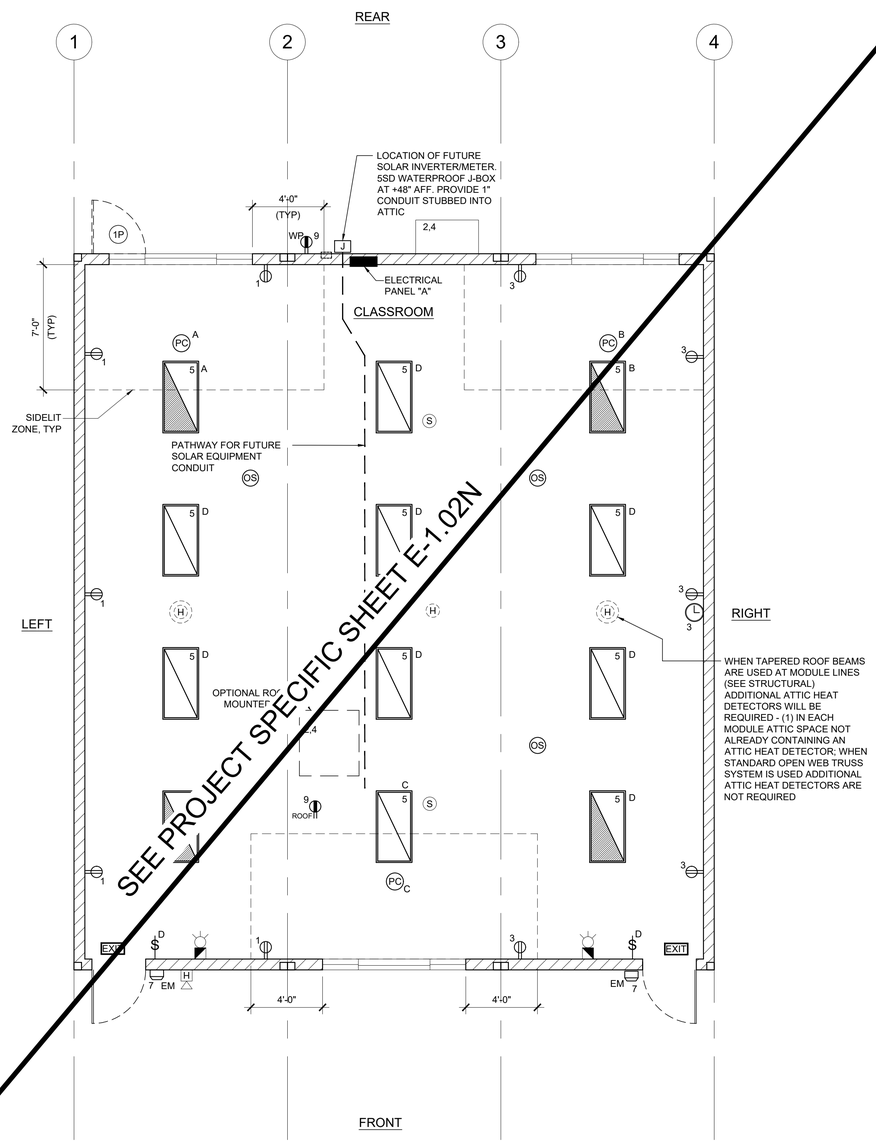
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

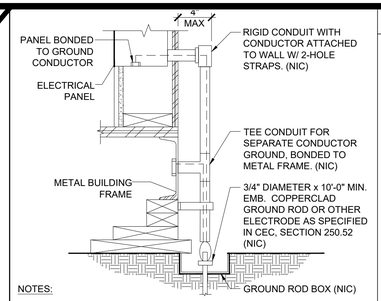
M-1.02



SEE PROJECT SPECIFIC SHEET E-1.02N

ELECTRICAL PLAN

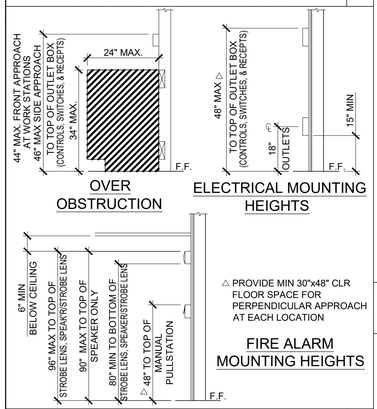
SCALE: 1/4" = 1'-0" | 4



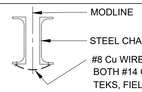
NOTES:

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 DEGREE'S 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 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 & 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.

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	P	Circuit	A	B	Circuit	BREAKER Amps	P	WATTS AØ	WATTS BØ	QTY	LOAD
RECEPTACLES	4	720		20	1	1	●		2	60	2	4830		1	HVAC - WALL MOUNT
RECEPTACLES/CLOCK	5		900	20	1	3		●	4	-	-		4830		-
INTERIOR LIGHTING	8	960		20	1	5	●		6						
EXTERIOR LIGHTING	1		40	20	1	7		●	8						
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		4910	940									4830	4870		B = 5810 WATTS / PHASE
TOTAL = 12,500 WATTS		61 AMPS		120/208 VOLTS		1 Ø						3 WIRE			

ELECTRICAL PANEL

VOLTS: 120/208 V | PANEL: "A" ROOF MOUNTED HVAC | FEED: REAR
MAIN: 100 A | LOCATION: [illegible] ACCESS | MOUNTING: RECESSED

LOAD	QTY	WATTS AØ	WATTS BØ	BREAKER Amps	P	Circuit	A	B	Circuit	BREAKER Amps	P	WATTS AØ	WATTS BØ	QTY	LOAD
[illegible]	4	720		20	1	1	●		2	60	2	4542		1	HVAC - ROOF MOUNT
[illegible]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			

SEE PROJECT SPECIFIC SHEET E-1.02N

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APP: 01-122855 INC:
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DATE: 1/23/2026
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PROJECT NAME:

S.S.F.U.S.D.
JUNIPERO SERRA E.S.
TK-CLASSROOM

SHEET TITLE:

ELECTRICAL PLAN AND SCHEDULE 36' 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: 01-121999 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 STARK 2978 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-1.02