NEW CLASSROOMS AT DANA ELEMENTARY SCHOOL

920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444

LUCIA MAR UNIFIED SCHOOL DISTRICT

DSA FILE NUMBER 40-39
DSA APPLICATION NUMBER 03-125585
OPSC 68759-135

GENERAL NOTES

PRE-BID SITE VISIT

CONTRACTOR SHALL VISIT THE PROJECT AREA IN ORDER TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT. THE CONTRACTOR MAY CONTACT THE ARCHITECT DURING THE BIDDING PHASE REGARDING CLARIFICATIONS AND PROJECT REQUIREMENTS.

SAFETY

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

DAMAGE TO STRUCTURE OR SYSTEMS TO REMAIN

CONTRACTOR SHALL REIMBURSE THE OWNER FOR REPAIR AND REPLACEMENT, INCLUDING ARCHITECT'S FEES, FOR ANY DAMAGE CAUSED TO STRUCTURES, LANDSCAPE, SITE WORK, OR EXISTING SYSTEMS TO REMAIN, AS THE RESULT OF CONSTRUCTION OPERATIONS.

EXISTING CONDITIONS

ALL EXISTING CONDITIONS ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND BUILDING DATA AT THE JOB SITE. ANY DISCREPANCIES REQUIRING MODIFICATION TO THE CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. NO MODIFICATIONS SHALL BE MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.

CONTRACTOR'S EQUIPMENT

COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. SEE SITE PLAN FOR ADDITIONAL NOTES.

UTILITY SHUT-DOWNS AND CONNECTIONS

ALL REQUIRED UTILITY SHUT DOWNS SHALL HAVE PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE. REQUEST SHALL BE SUBMITTED WITH ADEQUATE ADVANCE NOTICE PER PROJECT REQUIREMENTS.

ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.

THESE DOCUMENTS DO NOT ADDRESS CONTAINMENT FOR EXISTING AREAS OF ASBESTOS WHICH MAY BE DISCOVERED DURING CONSTRUCTION. THE OWNER'S ABATEMENT SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR THE DETECTION, REMOVAL, AND THE DISPOSAL OF ANY EXISTING ASBESTOS MATERIAL. ARCHITECTURAL AND ENGINEERING FEES FOR ADDITIONAL DESIGN EFFORT TO OBTAIN STATE APPROVALS, AS WELL AS THE COST OF ANY REPAIRS, FOR DAMAGE CAUSED OR REPLACEMENT OF EXISTING SYSTEMS TO REMAIN, DUE TO WORK PERFORMED BY THE ASBESTOS ABATEMENT SUBCONTRACTOR, SHALL BE THE RESPONSIBILITY OF SAID SUBCONTRACTOR.

CONSTRUCTION SCHEDULING

CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.

INTERIOR FINISHES

INTERIOR FINISHES AND ALL WALL COVERING MATERIAL SHALL CONFORM TO CCR TITLE 24, PART 2, CHAPTER 8.

TITLE 24 COMPLIANCE

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).

ADMINISTRATIVE REQUIREMENTS FROM PART 1, TITLE 24, C.C.R.

- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT, AND APPROVED BY DSA, AS PER SECTION 4-338.
- A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK, PER SECTION 4-342.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.
- SPECIAL INSPECTION PER SECTION 4-333 (C)
- CONTRACTOR SHALL SUBMIT VERIFIED REPORT OR SECTION 4-336 & 4-343 (C)
- ADMINISTRATION OR CONSTRUCTION PER PART 1, TITLE 24, C.C.R.
- DUTIES OF ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER PER SECTION 4-333 (A) AND 4-341
- DUTIES OF CONTRACTOR PER SECTION 4-343
- VERIFIED REPORTS PER SECTION 4-343 AND 4-336
- A COPY OF ALL APPLICABLE PARTS REFERRED TO BY THE PLANS AND SPECIFICATIONS OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION
- DSA SHALL BE NOTIFIED AT START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE PER SECTION 4-331
- SUPERVISION BY DSA PER SECTION 4-334
- DSA IS NOT SUBJECT TO ARBITRATION

ADMINISTRATIVE REQUIREMENTS

- ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA
- NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEM UNLESS SUCH CHANGES TO REVISIONS ARE SUBMITTED TO DSA FOR APPROVAL.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION
- CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING:
  - -- ARCHITECT OR ENGINEER OF RECORD
  - -- STRUCTURAL ENGINEER (WHEN APPLICABLE)
  - -- DELEGATED PROFESSIONAL ENGINEER
  - -- DSA
- MATERIALS AND THEIR INSTALLATIONS SHALL COMPLY WITH APPLICABLE CODES.
- PER CBC 118-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.

CALIFORNIA ENERGY CODE

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 ATT.

A LISTING OF CERTIFIED ATT'S 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 CONSTRUCTIONINSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

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

DSA APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED AS THE CERTIFICATION OF COMPLIANCE FOR THE PROJECT BUILDINGS AS REQUIRED BY THE FIELD ACT, EDUCATION CODE SECTIONS 17280-17316 AND SECTIONS 81130-81147

COMPLIANCE WITH LOCAL ORDINANCES

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

GENERAL NOTES, cont.

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MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT.

A LISTING OF CERTIFIED ATT's CAN BE FOUND AT
https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance

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ABBREVIATIONS

(REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL ABBREVIATIONS)

A.F.F.	ABOVE FINISHED FLOOR	LAM.	LAMINATE
A.P.	ACCESS PANEL	LAV.	LAVATORY
ACT	ACOUSTIC TILE	M.B.	MACHINE BOLT
ADJ.	ADJUSTABLE	M.S.	MACHINE SCREW
ALUM.	ALUMINUM	M.H.	MANHOLE
A.B.	ANCHOR BOLT	MFG.	MANUFACTURER
APPROX.	APPROXIMATELY	M.B.	MARKER BOARD
ARCH.	ARCHITECT	MATL.	MATERIAL
AC	ASPHALTIC CONCRETE	MAX.	MAXIMUM
@	AT	MECH.	MECHANICAL
B.M.	BENCH MARK	MTL.	METAL
BLKG.	BLOCKING	MIN.	MINIMUM
BD.	BOARD	MISC.	MISCELLANEOUS
B.W.	BOTH WAYS	MTD.	MOUNTED
BOT.	BOTTOM	(N)	NEW
BLDG.	BUILDING	NOM.	NOMINAL
B.U.R.	BUILT-UP ROOFING	N.I.C.	NOT IN CONTRACT
C.B.	CATCH BASIN	N.T.S.	NOT TO SCALE
CLG.	CEILING	NO. or #	NUMBER
CEM.	CEMENT	OCC.	OCCUPANT(CY)
C.C or O.C.	CENTER TO CENTER	O.C.	ON CENTER
	CENTERLINE	OPNG.	OPENING
CER. TILE	CERAMIC TILE	OPP.	OPPOSITE
C.O.	CLEANOUT	O.H.	OPPOSITE HAND
C.O.T.G.	CLEANOUT TO GRADE	O.F.O.S.	OUTSIDE FACE OF STUD
CLR.	CLEAR	O.H.W.S.	OVAL HEAD WOOD SCREW
C.A.H.R.	CLEAR ALL HEART REDWOOD	O.D.	OVERFLOW DRAIN and/or OUTSIDE DIAMETER
C.W.	COLD WATER	O.F.C.I.	OWNER FURNISHED and CONTRACTOR INSTALLED
COL.	COLUMN	PR.	PAIR
COM.	COMMON	PART.	PARTITION
CONC.	CONCRETE	PL.	PLATE
CONST.	CONSTRUCTION	d	PENNY (NAILS)
C.H.	CONSTRUCTION HEART	PLAS.	PLASTER
C.J.	CONSTRUCTION JOINT	PLYWD.	PLYWOOD
CONT.	CONTINUOUS	P.V.C.	POLY VINYL CHLORIDE
CONTR.	CONTRACTOR	P.T.	PRESSURE TREATED
CTR.	COUNTER	P.L.	PROPERTY LINE
CTSK.	COUNTER SUNK	R. or RAD.	RADIUS
DET.	DETAIL	R.W.L.	RAIN WATER LEADER
DIA. or Ø	DIAMETER	RWD./R.W.	REDWOOD
DIM.	DIMENSION	REINF.	REINFORCING
D.A.	DISABLED ACCESS	REQ'D	REQUIRED
DR.	DOOR	R.A.G.	RETURN AIR GRILLE
D.S.	DOWNSPOUT	R.E.	RIM ELEVATION
DWG.	DRAWING	R.D.	ROOF DRAIN
D.F.	DRINKING FOUNTAIN and/or DOUGLAS FIR	RM.	ROOM
EA.	EACH	R.O.	ROUGH OPENING
E.W.	EACH WAY	RND.	ROUND
ELEC.	ELECTRIC or ELECTRICAL	R.H.M.S.	ROUND HEAD METAL SCREW
EL. or ELEV.	ELEVATION	R.H.W.S.	ROUND HEAD WOOD SCREW
ENCL.	ENCLOSE and/or ENCLOSURE	SSD.	SEE STRUCTURAL DRAWINGS
EQ.	EQUAL	S.T.S.M.S.	SELF TAPPING SHEET METAL SCREW
EQUIP.	EQUIPMENT	SHEATH.	SHEATHING
(E)	EXISTING	S.M.	SHEET METAL
EX.	EXPANSION	S.M.S.	SHEET METAL SCREW
E.J.	EXPANSION JOINT	S.O.V.	SHUT OFF VALVE
EXP.	EXPOSED	SIM.	SIMILAR
EXT.	EXTERIOR	S.C.	SOLID CORE
F.O.C.	FACE OF CONCRETE	SPEC.	SPECIFICATION
F.O.M.	FACE OF MASONRY	SQ.	SQUARE
F.O.S.	FACE OF STUD	S.F.	SQUARE FEET
F.O.F.	FACE OF FINISH	STAG.	STAGGERED
FIN.	FINISH	STD.	STANDARD
F.F.	FINISHED FLOOR	S.S.	STAINLESS STEEL
F.S.	FINISH SLAB	STL.	STEEL
F.E.	FIRE EXTINGUISHER	STOR.	STORAGE
F.E.C.	FIRE EXTINGUISHER CABINET	STRUCT.	STRUCTURAL
F.H.	FIRE HYDRANT	S.A.G.	SUPPLY AIR GRILLE
F.H.M.S.	FLAT HEAD METAL SCREW	THRES.	THRESHOLD
F.H.W.S.	FLAT HEAD WOOD SCREW	T&G	TONGUE & GROOVE
FL. or FLR.	FLOOR	T.J.	TOOLED JOINT
F.D.	FLOOR DRAIN	T.O.B.	TOP OF BEAM
FTG.	FOOTING	T.O.C.	TOP OF CURB or CONCRETE
FND.	FOUNDATION	T.O.S.	TOP OF STEEL or SHEATHING
GALV.	GALVANIZED	T.O.W.	TOP OF WALK
G.I.	GALVANIZED IRON	TYP.	TYPICAL
GA.	GAUGE	U.O.N.	UNLESS OTHERWISE NOTED
GL.	GLASS	U.O.S.	UNLESS OTHERWISE SHOWN
GLU-LAM	GLUE-LAMINATED	V.T.R.	VENT THROUGH ROOF
GRD.	GRADE	VERT.	VERTICAL
GYP. BD.	GYPSUM BOARD	V.G.	VERTICAL GRAIN
HDW.	HARDWARE	V.I.F.	VERIFY IN FIELD
HT.	HEIGHT	V.C.T.	VINYL COMPOSITION TILE
H.C.	HOLLOW CORE	V.W.C.	VINYL WALL COVERING
H.M.	HOLLOW METAL	V.O.I.P.	VOICE OVER INTERNET PROTOCOL
HORIZ.	HORIZONTAL	W.C.	WATER CLOSET
H.B.	HOSE BIBB	W.H.	WATER HEATER
I.D.	INSIDE DIAMETER	WP.	WATERPROOF
INSUL.	INSULATION	W.R.	WATER RESISTANT
INT.	INTERIOR	W.W.M.	WELDED WIRE MESH
INV.	INVERT	W.D.	WINDOW DIMENSION
JT	JOINT	W/	WITH
J.H.	JOIST HANGER	W/O	WITHOUT
K.D.	KILN DRIED	WD.	WOOD

SYMBOLS LEGEND

- SECTION / EXTERIOR ELEVATION — 1 / A8.1 — SECTION IDENTIFICATION; SHEET WHERE SECTION IS DRAWN
- DETAIL — 4 / A9.1 — DETAIL IDENTIFICATION; SHEET WHERE DETAIL IS DRAWN
- INTERIOR ELEVATION — 1 / A7.1 — INDICATES ELEVATION SHOWN; SHEET WHERE ELEVATION IS DRAWN
- ROOM IDENTIFICATION — CLASSROOM / 102 — ROOM NAME; ROOM NUMBER
- SPECIFIC NOTE — 3
- DOOR DESIGNATION — 102A
- WINDOW DESIGNATION — A
- ADDENDUM REVISION — 1 — CLOUD AROUND REVISION
- CCD REVISION — 1 / CCD — CLOUD AROUND REVISION
- FINISH NUMBER — 127 — SEE SPECS AND I.E. DWGS.
- EQUIPMENT LETTER — A — SEE EQUIPMENT SCHEDULE
- CEILING HEIGHT — +8'-0"
- WALL TYPE — 1
- MATCH LINE
- ELEV. HEIGHT — +8'-0"
- CENTER OF
- FACE OF



DESIGN TEAM

ARCHITECT
FINNEY ARCHITECTS
380 PACIFIC STREET
SAN LUIS OBISPO, CALIFORNIA 93401
(408) 963-5710
ATTN: MARK FINNEY MARK@FINNEYARCHITECTS.COM

CIVIL ENGINEER
CLAD CONSULTING
566 CAMINO MERCADO
ARROYO GRANDE, CALIFORNIA 93420
(805) 540-0769
ATTN: DAVID CHANLEY DCHANLEY@CLAD-CONSULTING.COM

STRUCTURAL ENGINEER
T&S STRUCTURAL
684 CLARION COURT
SAN LUIS OBISPO, CALIFORNIA 93401
(805) 592-1012
ATTN: BRIAN T. DEAN BRIAN@TSSTRUCTURAL.COM

MECHANICAL & PLUMBING ENGINEER
CYPRESS ENGINEERING GROUP
8 HARRIS COURT, SUITE A8
MONTEREY, CALIFORNIA 93940
(408) 510-0906
ATTN: METIN SERTTUNC METIN@CYPRESSEG.COM

ELECTRICAL ENGINEER
THOMA ELECTRIC
3562 EMPLEO STREET, SUITE C
SAN LUIS OBISPO, CALIFORNIA 93401
(805) 543-3850
ATTN: JEFF THOMA JTHOMA@THOMAELEC.COM

GEOTECNHNICAL ENGINEER
EARTH SYSTEMS PACIFIC
4378 OLD SANTA FE ROAD
SAN LUIS OBISPO, CA 93401
(805) 234-9474
ATTN: NICK ZOETEWEY, PE, GE
NZOETEWEY@EARTHSYSTEMS.COM

PROJECT SUMMARY

CONSTRUCTION OF TWO (2) NEW ONE-STORY CLASSROOM BUILDINGS 060A (4,286 SF) AND 060B (4,872 SF), NEW PV PANELS ON BUILDING 060B, NEW PLAY STRUCTURE, NEW FENCING, AND ASSOCIATED SITE WORK ON EXISTING CAMPUS.

CONTRACTOR SCOPE NOTES:
AT PLAYGROUND AREAS, CONTRACTOR TO INSTALL PERIMETER CURB, GRADE AND COMPACT SUBGRADE. BASE ROCK, SURFACING, AND PLAY EQUIPMENT TO BE INSTALLED BY EQUIPMENT MANUFACTURER.

AT NON-PLAYGROUND AREAS WITH SYNTHETIC TURF SURFACING, OWNER TO INSTALL BASE ROCK AND TURF SURFACING. CONTRACTOR SHALL GRADE AND COMPACT SUBGRADE ONLY.

CONTRACTOR SHALL ALSO NOTE MISC. SCOPE ON SHEET T2.

THERE ARE NO DEFERRED SUBMITTALS FOR THIS PROJECT.

DRAWING INDEX

T1 TITLE SHEET
T2 SITE PLAN - ACCESS COMPLIANCE
T3 SITE PLAN - FIRE LIFE SAFETY
T4 BUILDING EXIT / EGRESS ANALYSIS
T5 CALGREEN MANDATORY MEASURES
T6 CALGREEN MANDATORY MEASURES

SHEET TOTAL = 6

CIVIL
C1 TITLE SHEET
C2 DEMOLITION PLAN
C3 DEMOLITION PLAN
C4 GRADING PLAN
C5 GRADING PLAN
C6 HORIZONTAL CONTROL PLAN
C7 HORIZONTAL CONTROL PLAN
C8 UTILITY PLAN
C9 UTILITY PLAN
C10 EROSION CONTROL PLAN
C11 DETAIL SHEET

CIVIL SHEET TOTAL = 11

ARCHITECTURAL
A0.20 NEW SITE PLAN
A0.21 ENLARGED PARTIAL NEW SITE PLAN
A0.30 SITE DETAILS
A0.40 SITE DETAILS - FENCE AND GATES
A0.50 SITE DETAILS
A2.1 NEW FLOOR PLAN
A2.2 FLOORING LAYOUT
A3.1 REFLECTED CEILING PLAN
A4.1 ROOF PLAN
A5.1 ENLARGED RESTROOM FLOOR PLANS & INTERIOR ELEVATIONS
A5.2 ENLARGED PLANS AT HVAC CLOSETS
A6.1 DOOR SCHEDULE AND DOOR DETAILS - SIGN SCHEDULE
A6.2 WINDOW TYPES AND WINDOW DETAILS
A6.3 FINISH SCHEDULE AND DETAILS
A6.4 CASEWORK DETAILS
A7.1 EXTERIOR ELEVATIONS
A7.2 INTERIOR ELEVATIONS
A7.3 INTERIOR ELEVATIONS
A7.4 INTERIOR ELEVATIONS
A7.5 INTERIOR ELEVATIONS
A7.6 INTERIOR ELEVATIONS
A8.1 BUILDING SECTIONS
A8.2 BUILDING SECTIONS
A9.1 WALL TYPES
A9.2 WALL BASE DETAILS
A9.3 EXTERIOR DETAILS
A9.4 ROOF DETAILS
A9.5 CEILING DETAILS
A9.6 FIXTURES & EQUIPMENT DETAILS

ARCHITECTURAL SHEET TOTAL = 29

STRUCTURAL
S0.1 STRUCTURAL TITLE SHEET
S0.2 STRUCTURAL SPECIFICATIONS
S0.3 STRUCTURAL SPECIFICATIONS
S1.1 TYP. STRUCTURAL DETAILS
S1.2 TYP. STRUCTURAL DETAILS
S1.3 TYP. STRUCTURAL DETAILS
S2.1 FOUNDATION PLAN
S2.2 CURB PLAN
S2.3 ROOF FRAMING PLAN
S2.4 STRUCTURAL ELEVATIONS
S2.5 STRUCTURAL ELEVATIONS
S2.6 STRUCTURAL ELEVATIONS
S2.7 STRUCTURAL ELEVATIONS
S3.1 STRUCTURAL DETAILS
S3.2 STRUCTURAL DETAILS

STRUCTURAL SHEET TOTAL = 15

MECHANICAL
M0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL
M0.2 SCHEDULES AND PELICAN SEQUENCE OF OPERATIONS - MECHANICAL
M2.1 BUILDINGS 060A & 060B - NEW FLOOR PLANS - MECHANICAL
M4.1 BUILDINGS 060A & 060B - SECTION VIEWS - MECHANICAL
M5.1 MECHANICAL CONTROLS
M5.2 MECHANICAL CONTROLS
M6.1 DETAILS - MECHANICAL

MECHANICAL SHEET TOTAL = 7

PLUMBING
P0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - PLUMBING
P0.2 SCHEDULES - PLUMBING
P2.1 BUILDINGS 060A & 060B - NEW FLOOR PLANS - PLUMBING
P2.2 BUILDING 060A & 060B - NEW FLOOR PLANS - WASTE, VENT, & CONDENSATE DRAIN PIPING - PLUMBING
P6.1 DETAILS - PLUMBING

PLUMBING SHEET TOTAL = 5

ELECTRICAL
E0.01 GENERAL NOTES, LEGEND & ABBREVIATIONS
E0.02 SINGLE LINE DIAGRAM
E0.03 ELECTRICAL SCHEDULES
E0.04 LUMINAIRE SCHEDULE
E0.06 ELECTRICAL DETAILS
E0.07 ELECTRICAL DETAILS
E0.08 ELECTRICAL DETAILS
E0.10 TITLE 24 COMPLIANCE DOCUMENTATION - EXTERIOR
E0.11 TITLE 24 COMPLIANCE DOCUMENTATION - BUILDING 60A INTERIOR
E0.12 TITLE 24 COMPLIANCE DOCUMENTATION - BUILDING 06B EXTERIOR
E0.13 TITLE 24 COMPLIANCE DOCUMENTATION - BUILDING 060B INTERIOR
E0.20 ELECTRICAL SITE PLAN
E2.1 ELECTRICAL POWER/COMM FLOOR PLAN
E3.1 ELECTRICAL LIGHTING/CONTROLS PLAN
E4.1 ELECTRICAL ROOF PLAN

ELECTRICAL SHEET TOTAL = 15

FIRE ALARM
E5.1 FIRE ALARM FLOOR PLAN
E5.2 FIRE ALARM RISER
E5.3 FIRE ALARM DETAILS
E5.4 FIRE ALARM CALCULATIONS
E6.0 GENERAL COMMUNICATION PLAN NOTES, BOD
E6.1 COMM RISER/COMM DETAILS

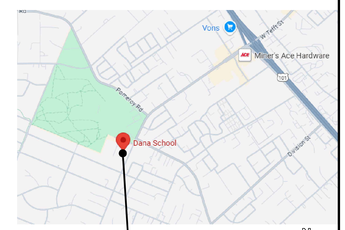
FIRE ALARM SHEET TOTAL = 6

PHOTOVOLTAIC (ON BLDG. 060B)
PV0.01 PHOTOVOLTAIC GENERAL NOTES, LEGEND, & ABBREVIATIONS
PV0.02 PHOTOVOLTAIC SINGLE LINE DIAGRAM
PV0.03 PV LABELS
PV0.20 PHOTOVOLTAIC SITE PLAN
PV1.0 PHOTOVOLTAIC ARRAY PLAN
PV1.1 PHOTOVOLTAIC DETAILS
PV1.2 PV MODULE INSTALLATION MANUAL
PV1.3 PV MODULE INSTALLATION MANUAL
PV2.0 PHOTOVOLTAIC TITLE 24 COMPLIANCE FORMS

PHOTOVOLTAIC SHEET TOTAL = 9

SHEET TOTAL = 103

VICINITY MAP



PROJECT LOCATION

STATEMENT OF GENERAL CONFORMANCE

APPLICATION NO.: 03-125585 FILE NO.: 40-39

THE DRAWINGS IDENTIFIED AS FOLLOWS:

- ☒ ALL DRAWING SHEETS INCLUDED IN THIS SET NOT BEARING MY STAMP AND SIGNATURE.
- ☐ DRAWING SHEETS DENOTED IN THE SHEET INDEX AS FOLLOWS:
- ☐ DRAWING SHEETS INCLUDED UNDER THE FOLLOWING PC APPROVALS:

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

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

PER TITLE 24, PART 1, SECTION 4-316(b): THIS STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1.

SIGNATURE		9/25/2025
MARK FINNEY	C-24673	9/30/2027
PRINTED NAME	LICENSE NUMBER	EXPIRATION DATE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24673
REN. 9-30-27
STATE OF CALIFORNIA

TITLE SHEET

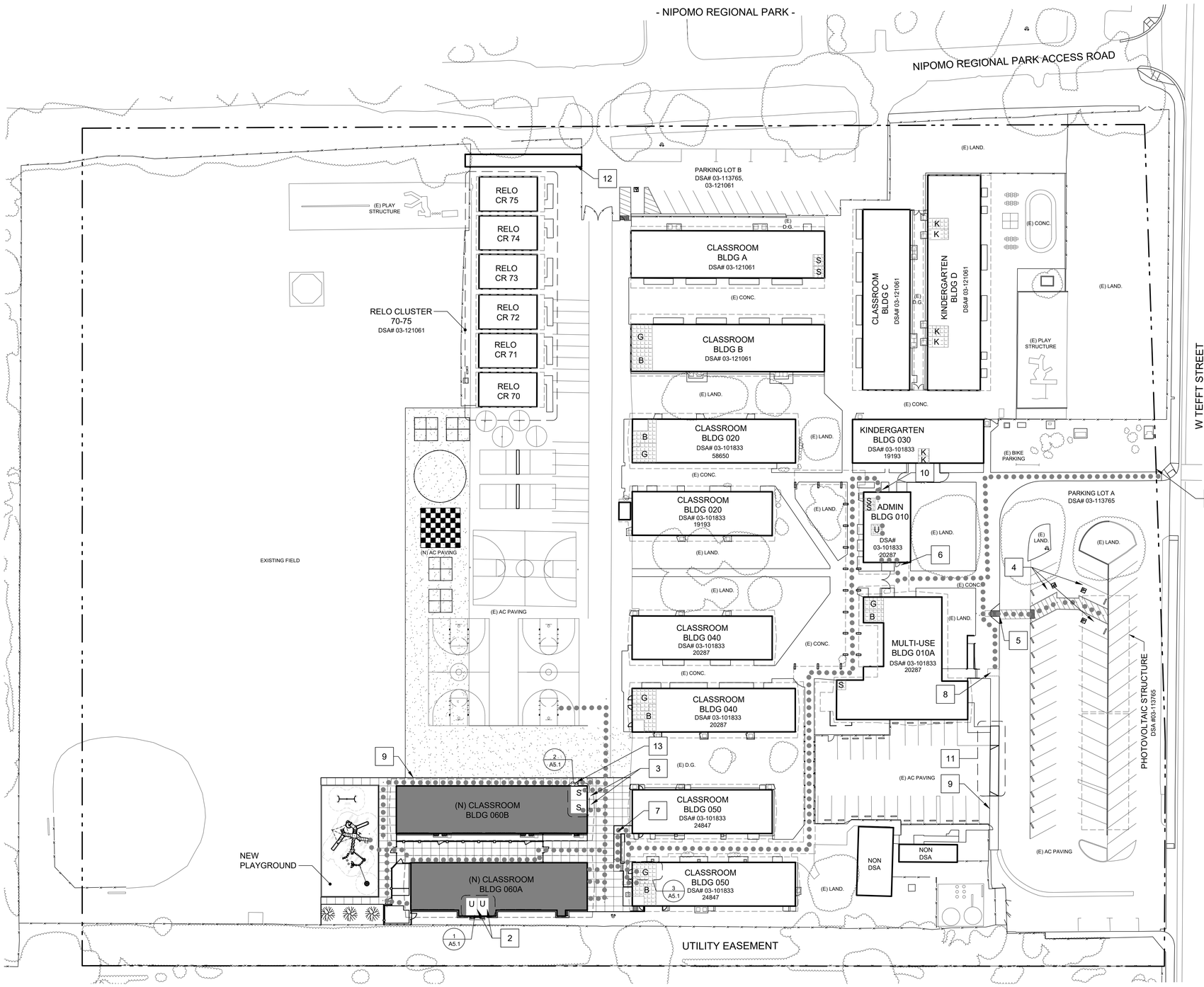
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: DATE:
24149 DSA V3 SUBMITTAL: 06-12-26

T1

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1 SITE PLAN - ACCESS COMPLIANCE

1" = 30'-0"

0 7.5' 15' 30' 60' 90'

TRUE NORTH REF NORTH

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

THE PATH OF TRAVEL IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENT FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T , THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) 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 P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THIS PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

GENERAL NOTES

A. **THIS SHEET IS FOR ACCESS COMPLIANCE CODE RELATED ITEMS. FOR SCOPE OF WORK SEE SHEET A0.20.**
B. REFER TO CIVIL, STRUCTURAL, PLUMBING, ELECTRICAL, AND FIRE ALARM DRAWINGS FOR EXTENT OF OTHER RELATED WORK.
C. ACCESSIBLE PATH OF TRAVEL (P.O.T.), AS INDICATED, IS A COMMON BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING A 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND AT LEAST 48" WIDE. THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. PASSING SPACES (11B-403.5.3) AT LEAST 60"X60" ARE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. THE CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL AND IS LESS THAN 5%. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2).
D. GATES IN THE PATH OF TRAVEL SHALL MEET DOOR REQUIREMENTS PER CBC SECTION 11B-404. ALL GATES TO HAVE ACCESSIBLE HARDWARE AND 10" MIN. SMOOTH BOTTOM OR KICK PLATES. PANIC HARDWARE AND EXIT SIGN MAY BE REQUIRED. COORDINATE WITH FIRE AND LIFE SAFETY.
E. ARCHITECT HAS VERIFIED ALL BARRIERS IN P.O.T. HAVE BEEN REMOVED.
F. ALL EXTERIOR ENTRANCES AND EXITS ALONG THE PATH OF TRAVEL ON THIS PLAN ARE ACCESSIBLE AND COMPLY WITH CBC 11B-401 AND INCLUDE A 32" CLEAR OPENING, THE REQUIRED STRIKE EDGE CLEARANCE AT PULL SIDE OF DOOR, LEVEL LANDINGS WITH A 2% MAX. SLOPE, AND AN ACCESSIBLE THRESHOLD, HARDWARE, CLOSER AND KICK PLATE.

SITE PLAN - ACCESS COMPLIANCE NOTES

1. EXISTING ENTRY WARNING SIGN, DSA#01-113765
2. NEW ACCESSIBLE STUDENT UNISEX RESTROOMS, SEE ENLARGED FLOOR PLAN 1/A5.1
3. NEW ACCESSIBLE STAFF UNISEX RESTROOMS, SEE ENLARGED FLOOR PLAN 2/A5.1
4. EXISTING ACCESSIBLE PARKING, DSA#01-113765, SEE DETAIL 4/A0.50 FOR ENLARGED PLAN.
5. EXISTING ACCESSIBLE CURB RAMP, DSA#01-113765.
6. EXISTING 36" FRONT DOOR TO ADMIN OFFICE. CONTRACTOR SHALL REPLACE EXISTING LOCKSET WITH NEW LEVER STYLE HARDWARE, INCLUDING ANY MODIFICATIONS TO DOOR AND JAMB REQUIRED TO ACCOMMODATE NEW HARDWARE. REFER TO DOOR HARDWARE SPECS.
7. EXISTING ACCESSIBLE RAMP, DSA#03-101833.
8. BUS BOARDING AND ALIGHTING AREA ON EXISTING SIDEWALK, 2% MAX. SLOPE IN ANY DIRECTION. SEE ENLARGED PLAN DETAIL 17/A0.5.
9. FLUSH TRANSITION BETWEEN PAVING TYPES
10. REAR EXIT 36" DOOR FROM ADMIN OFFICE WITH LEVER HARDWARE TO REMAIN.
11. DRIVEWAY APPROACH AND SIDEWALK REPLACEMENT, SEE CIVIL DRAWINGS.
12. RELOCATED STORAGE CONTAINERS AND SHEDS, SEE CIVIL DEMOLITION PLAN
13. DRINKING FOUNTAIN, SEE DETAIL 7/A9.6 AND PLUMBING DRAWINGS.

PARKING COUNT

PER 2022 CBC,TABLE 11B-208.2

PARKING LOT A - VISITOR AND STAFF PARKING: DSA# 01-113765

TOTAL PARKING SPACES (INCLUDING ALL ACCESSIBLE PARKING SPACES) = 52
MINIMUM ACCESSIBLE PARKING SPACES REQUIRED = 3
TOTAL STANDARD ACCESSIBLE SPACES + TOTAL VAN ACCESSIBLE SPACES* PROVIDED = 2 + 1 = 3
THEREFORE, OKAY.

PARKING LOT B - STAFF PARKING: DSA# 01-113765, 03-121061

TOTAL PARKING SPACES (INCLUDING ALL ACCESSIBLE PARKING SPACES) = 18
MINIMUM ACCESSIBLE PARKING SPACES REQUIRED = 1
TOTAL STANDARD ACCESSIBLE SPACES + TOTAL VAN ACCESSIBLE SPACES* PROVIDED = 0 + 1 = 1
THEREFORE, OKAY.

* FOR EVERY SIX STANDARD ACCESSIBLE SPACES REQUIRED, AT LEAST ONE SHALL BE A VAN PARKING SPACE.

GRAPHIC KEY

- EXISTING PROPERTY LINE
- ACCESSIBLE PATH OF TRAVEL
- ROOF OVERHANG
- CHAIN LINK FENCE
- NEW BUILDING
- EXISTING BUILDING
- EXISTING RESTROOMS
- DRINKING FOUNTAIN
- (E) SIGN
- G ACCESSIBLE GIRLS RESTROOM
- B ACCESSIBLE BOYS RESTROOM
- K ACCESSIBLE KINDERGARTEN UNISEX RESTROOM
- S ACCESSIBLE STAFF UNISEX RESTROOM
- U ACCESSIBLE UNISEX STUDENT RESTROOM

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PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

SITE PLAN
ACCESS COMPLIANCE

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: DATE:
24149 DSA V3 SUBMITTAL: 06-12-26

T2

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Mid-Coast Fire Protection, Inc.
since 1981
Phone: 805-489-2889 www.Midcoastfire.com

NORTH/ SLO COUNTY
5507 Traffic Way
Atascadero, CA 93422

MAIN OFFICE - MAILING
1342 Ramona Ave, Ste A&B
Grover Beach, CA 93433

SANTA BARBARA COUNTY
84 Industrial Way, # D
Buellton, CA 93427

Contractor's License C-16 #579499 C-61/D64 CA State Fire Marshal License E-1651, E-2473

Water Flow Test Report

Building Name: Dana Elementary School	Test date: 05/21/2026
Address: 920 West Tefft Street	Tested by: Danny Lambert
City: Nipomo CA 93444	Day of Week: Monday
Contact:	Time of Day: 8:00 am
Water Supply by: Municipal	Flow Duration: 5 minutes

Hydrant Flow Data

Hydrant(s)	#1	#2	#3
Size opening	1.75"	1.75"	1.75"
Coefficient	1.20	1.20	1.20
Pitot Reading	39 (Open Atmo)	43 (Open Atmo)	41 (Open Atmo)
Gpm	685	719	702
LOCATION:	IN PARKING LOT	BLDGS 050 & 060	NEAR REGIONAL PARK

Static: 70 Psi	Residual: 66 Psi	Flow Gpm:685

GPM at 20 psi: 2679
Class: AA
Marking color: Light Blue
% Pressure Drop: 9%

HYDRANT #1:

Static: 71 Psi	Residual: 65 Psi	Flow Gpm: 719

GPM at 20 psi: 2284
Class: AA
Marking color: Light Blue
% Pressure Drop: 9%

HYDRANT #2:

Static: 68 Psi	Residual: 65 Psi	Flow Gpm: 702

GPM at 20 psi: 3137
Class: AA
Marking color: Light Blue
% Pressure Drop: 4%

HYDRANT #3:

(E) BUILDING CODE ANALYSIS

BUILDING	CONSTRUCTION TYPE OCCUPANCY TYPE	AREA (SQ.FT.)	# OF STORIES
ADMINISTRATION BUILDING 010	V-B / B NON-SPRINKLERED	2,710	1
MULTI-USE BUILDING 010a	V-B / A-2 NON-SPRINKLERED	10,037	1
CLASSROOM BUILDINGS 020 CLUSTER	V-B / E NON-SPRINKLERED	11,120	1
KINDERGARTEN BUILDING 030	V-B / E NON-SPRINKLERED	4,800	1
CLASSROOM BUILDINGS 040 CLUSTER	V-B / E NON-SPRINKLERED	11,120	1
CLASSROOM BUILDINGS 050 CLUSTER	V-B / E NON-SPRINKLERED	11,120	1
RELOCATABLE CLUSTER 70-75	V-B / E NON-SPRINKLERED	960 x 6= 5,760	1
CLASSROOM BUILDING A	V-B / E NON-SPRINKLERED	4,279	1
CLASSROOM BUILDING B	V-B / E NON-SPRINKLERED	4,279	1
CLASSROOM BUILDINGS C & D	V-B / E NON-SPRINKLERED	3,997 + 5375= 9,372	1

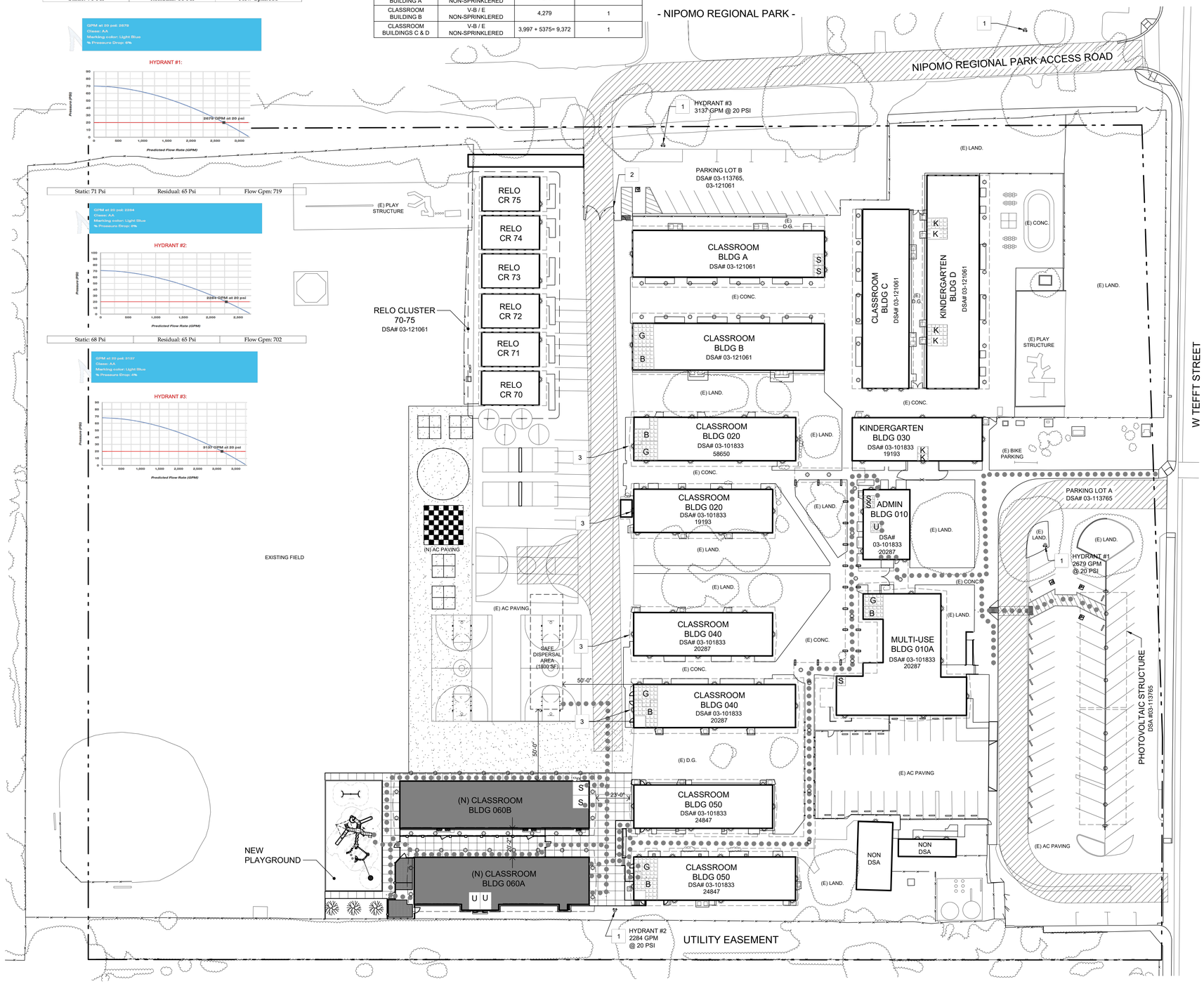
(N) BUILDING CODE ANALYSIS

BUILDING	CONSTRUCTION TYPE OCCUPANCY TYPE	AREA (SQ.FT.)	# OF STORIES HEIGHT
BUILDING CLUSTER: CLASSROOM BUILDINGS 060A & 060B	V-B / E NON-SPRINKLERED	4,296 + 3,872 = 8,168	1 16'-9"

SAFE DISPERSAL AREA

TOTAL OCCUPANT LOAD OF BUILDINGS 060A AND 060B = 349 OCCUPANTS (SEE SHEET T4)

MINIMUM DISPERSAL AREA REQUIRED: OCCUPANTS x 5 SF/OCC
349 X 5 SF = 1,745 SF
AREA PROVIDED = 1,800 SF THEREFORE OK.



1 SITE PLAN - FIRE LIFE SAFETY

1" = 30'-0"
0 7.5' 15' 30' 60' 90'

PROJECT SUMMARY

TWO (2) NEW 1-STORY CLASSROOM BUILDINGS AND SITE WORK.

GENERAL NOTES

A. **THIS SHEET IS FOR FIRE LIFE SAFETY CODE RELATED ITEMS. FOR SCOPE OF WORK SEE SHEET A0.20.**
B. REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE ALARM DRAWINGS FOR EXTENT OF OTHER RELATED WORK.

SITE PLAN - FIRE LIFE SAFETY NOTES

1. EXISTING FIRE HYDRANT, SEE FLOW TEST RESULTS THIS SHEET AND NOTES NEXT TO EACH LOCATION.
2. EXISTING VEHICLE ACCESS GATE.
3. EXISTING WALL MOUNTED AND ROOF MOUNTED FLOOD FIXTURES, FLOOD TYPE AIMING OUT OVER PLAY AREA.

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:	LUCIA MAR UNIFIED SCHOOL DISTRICT
Project Name/School:	DANA ELEMENTARY SCHOOL
Project Address:	920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444

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: http://egis.fire.ca.gov/FHSZ/	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.			✓	
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.			✓	
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.	✓			
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.				
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.			✓	
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: Andy Stenson Title: Dir. of Facilities & Maintenance

Signature: Date: 6-7-26

LOCAL FIRE AUTHORITY (LFA) INFORMATION		
LFA Agency Name:	CAL FIRE/San Luis Obispo Fire Department	
LFA Review Official:	Nick Terrones	
Title:	Fire Captain/Deputy Fire Marshal	Work Phone: (805) 543-4244
Work Email:	thomas.terrones@fire.ca.gov	

LFA Reviewer's Signature: Date: 06/03/26

GRAPHIC KEY

- PROPERTY BOUNDARY
- ROOF OVERHANG
- CHAIN LINK FENCE
- ACCESSIBLE PATH OF TRAVEL
- NEW 1-STORY BUILDING
- EXISTING BUILDING
- RESTROOMS
- FIRE DEPARTMENT ACCESS. DSA#03-121061 — FIRE DEPARTMENT ACCESS IS 20'-0" WIDE AND RATED FOR 96,000 LBS.
- (E) DRY STAND PIPE
- (E) FIRE HYDRANT
- DRINKING FOUNTAIN
- (E) SIGN
- (E) EXTERIOR WALL MOUNT / FLOOD TYPE LIGHT FIXTURE
- NEW OR (E) SOFFIT / CANOPY LIGHT FIXTURE

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LICENSED ARCHITECT
MARK C. FINNEY
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SITE PLAN
FIRE LIFE SAFETY

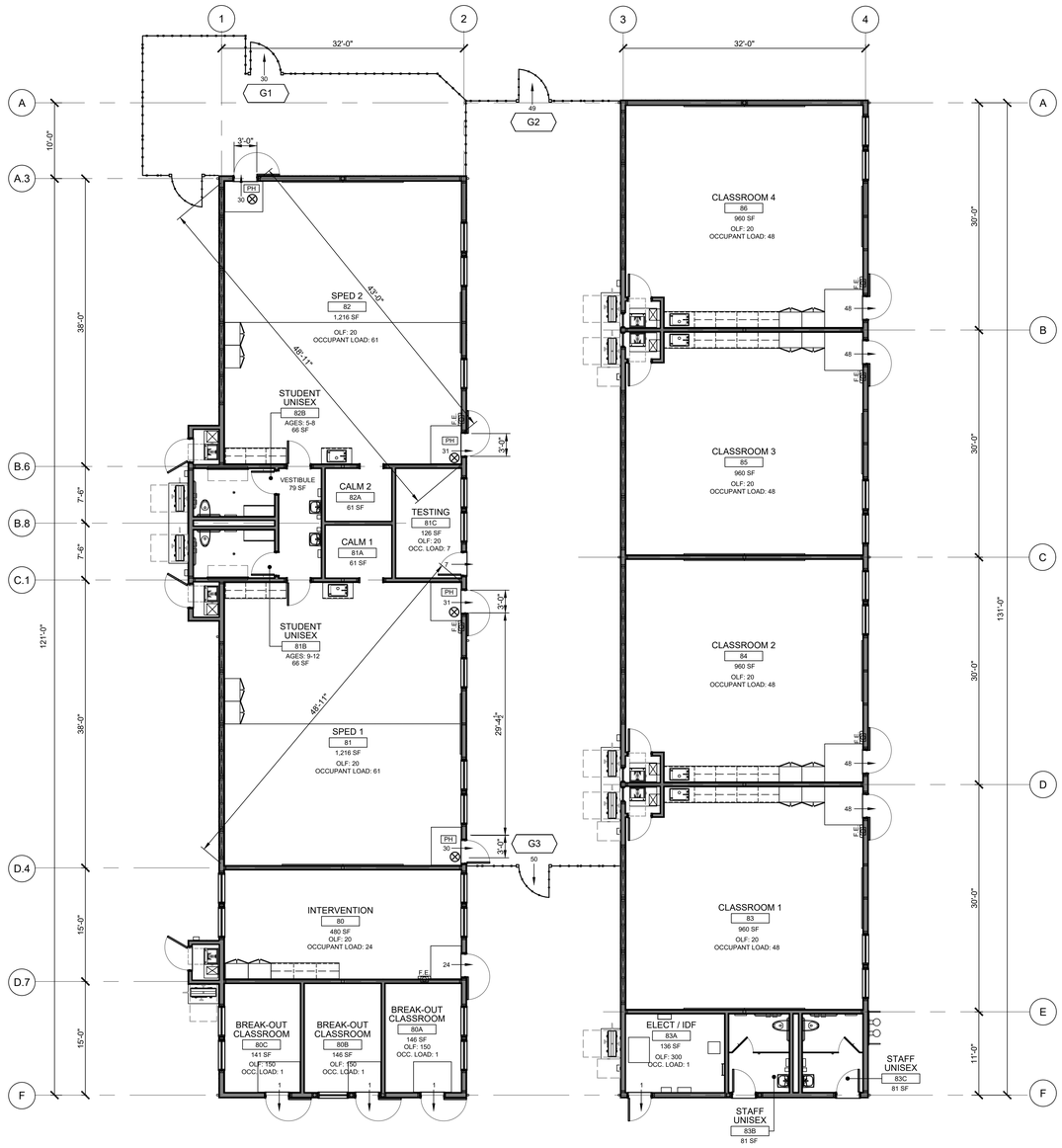
NEW CLASSROOMS AT
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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: 24149 DATE: DSA V3 SUBMITTAL: 06-12-26

T3

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BUILDING 060A

BUILDING 060B

1 BUILDING EXIT / EGRESS CODE ANALYSIS

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

REF NORTH TRUE NORTH

GRAPHIC KEY

- ⊗ — DOOR WITH ILLUMINATED EXIT SIGN
- PH — DOOR WITH PANIC HARDWARE
- # — INDICATES OCCUPANT LOAD THROUGH DOOR
- F.E. — FIRE EXTINGUISHER
- NEW DECORATIVE FENCE
- G1 — GATE TAG, SEE NEW ENLARGED SITE PLAN A0.21

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NO. C-24073
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BUILDING EXIT / EGRESS CODE ANALYSIS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

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DATE: DSA V2 SUBMITTAL: 06-12-26

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DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. NEWLY CONSTRUCTED PROJECTS AND ADDITIONS WHICH DISTURB LESS THAN ACRE OF LAND, AND ARE NOT PART OFA LARGER COMMON PLAN OF DEVELOPMENT OR SALE, SHALL PREVENT THE POLLUTION OF STORM WATER RUNOFF FROM THE CONSTRUCTION ACTIVITIES THROUGH ONE OR MORE OF THE FOLLOWING MEASURES:

5.106.1.1 LOCAL ORDINANCE. COMPLY WITH A LAWFULLY ENACTED STORM WATER MANAGEMENT AND/OR EROSION CONTROL ORDINANCE.

5.106.1.2 BEST MANAGEMENT PRACTICES (BMP'S). PREVENT THE LOSS OF SOIL THROUGH WIND OR WATER EROSION BY IMPLEMENTING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROL AND GOOD HOUSEKEEPING BMP'S.

1. SOIL LOSS BMP'S THAT SHOULD BE CONSIDERED FOR IMPLEMENTATION AS APPROPRIATE FOR EACH PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   - 1.1. SCHEDULING CONSTRUCTION ACTIVITY DURING DRY WEATHER, WHEN POSSIBLE.
   - 1.2. PRESERVATION OF NATURAL FEATURES, VEGETATION, SOIL, AND BUFFERS AROUND SURFACE WATERS.
   - 1.3. DRAINAGE SWALES OR LINED DITCHES TO CONTROL STORM WATER FLOW.
   - 1.4. MULCHING OR HYDROSEEDING TO STABILIZE DISTURBED SOILS.
   - 1.5. EROSION CONTROL TO PROTECT SLOPES.
   - 1.6. PROTECTION OF STORM DRAIN INLETS (GRAVEL BAGS OR CATCH BASIN INSERTS).
   - 1.7. PERIMETER SEDIMENT CONTROL (PERIMETER SILT FENCE, FIBER ROLLS).
   - 1.8. SEDIMENT TRAP OR SEDIMENT BASIN TO RETAIN SEDIMENT ON SITE.
   - 1.9. STABILIZED CONSTRUCTION EXITS.
   - 1.10. WIND EROSION CONTROL.
   - 1.11. OTHER SOIL LOSS BMP'S ACCEPTABLE TO THE ENFORCING AGENCY.
2. GOOD HOUSEKEEPING BMP'S TO MANAGE CONSTRUCTION EQUIPMENT, MATERIALS, NON-STORM WATER DISCHARGES AND WASTES THAT SHOULD BE CONSIDERED FOR IMPLEMENTATION AS APPROPRIATE FOR EACH PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   - 2.1. DEWATERING ACTIVITIES.
   - 2.2. MATERIAL HANDLING AND WASTE MANAGEMENT.
   - 2.3. BUILDING MATERIALS STOCKPILE MANAGEMENT.
   - 2.4. MANAGEMENT OF WASHOUT AREAS (CONCRETE, PAINTS, STUCCO, ETC.).
   - 2.5. CONTROL OF VEHICLE/EQUIPMENT FUELING TO CONTRACTOR'S STAGING AREA.
   - 2.6. VEHICLE AND EQUIPMENT CLEANING PERFORMED OFF SITE.
   - 2.7. SPILL PREVENTION AND CONTROL.
   - 2.8. OTHER HOUSEKEEPING BMP'S ACCEPTABLE TO THE ENFORCING AGENCY.

5.106.2 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. COMPLY WITH ALL LAWFULLY ENACTED STORMWATER DISCHARGE REGULATIONS FOR PROJECTS THAT (1) DISTURB ONE ACRE OR MORE OF LAND, OR (2) DISTURB LESS THAN ONE ACRE OF LAND BUT ARE PART OF A LARGER COMMON PLAN OF DEVELOPMENT SALE.

NOTE: PROJECTS THAT (1) DISTURB ONE ACRE OR MORE OF LAND, OR (2) DISTURB LESS THAN ONE ACRE OF LAND BUT ARE PART OF THE LARGER COMMON PLAN OF DEVELOPMENT OR SALE MUST COMPLY WITH THE POST-CONSTRUCTION REQUIREMENTS DETAILED IN THE APPLICABLE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES ISSUED BY THE STATE WATER RESOURCES CONTROL BOARD OR THE LAHONTAN REGIONAL WATER QUALITY CONTROL BOARD (FOR PROJECTS IN THE LAKE TAHOE HYDROLOGIC UNIT).

THE NPDES PERMITS REQUIRE POST-CONSTRUCTION RUNOFF (POST-PROJECT HYDROLOGY) TO MATCH THE PRE-CONSTRUCTION RUNOFF (PRE-PROJECT HYDROLOGY) WITH THE INSTALLATION OF POST-CONSTRUCTION STORM WATER MANAGEMENT MEASURES. THE NPDES PERMITS EMPHASIZE RUNOFF REDUCTION THROUGH ON-SITE STORM WATER USE, INTERCEPTION, EVAPOTRANSPIRATION, AND INFILTRATION THROUGH NONSTRUCTURAL CONTROLS, SUCH AS LOW IMPACT DEVELOPMENT (LID) PRACTICES, AND CONVERSATION DESIGN MEASURES. STORM WATER VOLUME THAT CANNOT BE ADDRESSED USING NONSTRUCTURAL PRACTICES IS REQUIRED TO BE CAPTURED IN STRUCTURAL
PRACTICES AND BE APPROVED BY THE ENFORCING AGENCY.

REFER TO THE CURRENT APPLICABLE PERMITS ON THE STATE WATER RESOURCES CONTROL BOARD WEBSITE AT:
WWW.WATERBOARDS.CA.GOV/CONSTRUCTIONSTORMWATER. CONSIDERATION TO THE STORM WATER RUNOFF MANAGEMENT MEASURES SHOULD BE GIVEN DURING THE INITIAL DESIGN PROCESS FOR APPROPRIATE INTEGRATION INTO SITE DEVELOPMENT.

5.106.4 BICYCLE PARKING. FOR BUILDINGS WITHIN THE AUTHORITY OF CALIFORNIA BUILDING STANDARDS COMMISSION AS SPECIFIED IN SECTION 103, COMPLY WITH SECTION 5.106.4.1. FOR BUILDINGS WITHIN THE AUTHORITY OF THE DIVISION OF THE STATE ARCHITECT PURSUANT TO SECTION 105, COMPLY WITH SECTION 5.106.4.2.

5.106.4.1 BICYCLE PARKING [BSC-CG]. COMPLY WITH SECTIONS 5.106.4.1.1 AND 5.106.4.1.2; OR MEET THE APPLICABLE LOCAL ORDINANCE, WHICHEVER IS STRICTER.

5.106.4.1.1 SHORT-TERM BICYCLE PARKING. IF THE NEW PROJECT OR AN ADDITION OR ALTERATION IS ANTICIPATED TO GENERATE VISITOR TRAFFIC, PROVIDE PERMANENTLY ANCHORED BICYCLE RACKS WITHIN 200 FEET OF THE VISITORS' ENTRANCE, READILY VISIBLE TO PASSERS-BY, FOR 5 PERCENT OF NEW VISITOR MOTORIZED VEHICLE PARKING SPACES BEING ADDED, WITH A MINIMUM OF ONE TWO-BIKE CAPACITY RACK.
EXCEPTION: ADDITIONS OR ALTERATIONS WHICH ADD NINE OR LESS VISITOR VEHICULAR PARKING SPACES.

5.106.4.1.2 LONG-TERM BICYCLE PARKING. FOR NEW BUILDINGS WITH TENANT SPACES THAT HAVE 10 OR MORE TENANT-OCCUPANTS, PROVIDE SECURE BICYCLE PARKING FOR 5 PERCENT OF THE TENANT-OCCUPANT VEHICULAR PARKING SPACES WITH A MINIMUM OF ONE BICYCLE PARKING FACILITY.

5.106.4.1.3 FOR ADDITIONS OR ALTERATIONS THAT ADD 10 OR MORE TENANT-OCCUPANT VEHICULAR PARKING SPACES, PROVIDE SECURE BICYCLE PARKING FOR 5 PERCENT OF THE TENANT VEHICULAR PARKING SPACES BEING ADDED, WITH A MINIMUM OF ONE BICYCLE PARKING FACILITY.

5.106.4.1.4 FOR NEW SHELL BUILDINGS IN PHASED PROJECTS PROVIDE SECURE BICYCLE PARKING FOR 5 PERCENT OF THE ANTICIPATED TENANT-OCCUPANT VEHICULAR PARKING SPACES WITH A MINIMUM OF ONE BICYCLE PARKING FACILITY.

5.106.4.1.5 ACCEPTABLE BICYCLE PARKING FACILITY FOR SECTIONS 5.106.4.1.2, 5.106.4.1.3, AND 5.106.4.1.4 SHALL BE CONVENIENT FROM THE STREET AND SHALL MEET ONE OF THE FOLLOWING:

1. COVERED, LOCKABLE ENCLOSURES WITH PERMANENTLY ANCHORED RACKS FOR BICYCLES;
2. LOCKABLE BICYCLE ROOMS WITH PERMANENTLY ANCHORED RACKS; OR
3. LOCKABLE, PERMANENTLY ANCHORED BICYCLE LOCKERS.

NOTE: ADDITIONAL INFORMATION ON RECOMMENDED BICYCLE ACCOMMODATIONS MAY BE OBTAINED FROM SACRAMENTO AREA BICYCLE ADVOCATES.

5.106.8 LIGHT POLLUTION REDUCTION [N]. OUTDOOR LIGHTING SYSTEMS SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH THE FOLLOWING:

1. THE MINIMUM REQUIREMENTS IN THE CALIFORNIA ENERGY CODE FOR LIGHTING ZONES 0-4 AS DEFINED IN CHAPTER 10, SECTION 10-114 OF THE CALIFORNIA ADMINISTRATIVE CODE; AND
2. BACKLIGHT (B) RATINGS AS DEFINED IN IES TM-15-11 (SHOWN IN TABLE A-1 IN CHAPTER 8);
3. UPLIGHT AND GLARE RATINGS AS DEFINED IN CALIFORNIA ENERGY CODE (SHOWN IN TABLES 130.2-A AND 130.2-B IN CHAPTER 8) AND
4. ALLOWABLE BUG RATINGS NOT EXCEEDING THOSE SHOWN IN TABLE 5.106.8, [N] OR COMPLY WITH A LOCAL ORDINANCE LAWFULLY ENACTED PURSUANT TO SECTION 101.7, WHICHEVER IS MORE STRINGENT.

EXCEPTIONS:

1. LUMINAIRES THAT QUALIFY AS EXCEPTIONS IN SECTIONS 130.2 (B) AND 140.7 OF THE CALIFORNIA ENERGY CODE.
2. EMERGENCY LIGHTING.
3. BUILDING FACADE MEETING THE REQUIREMENTS IN TABLE 140.7-B OF THE CALIFORNIA ENERGY CODE, PART 6.
4. CUSTOM LIGHTING FEATURES AS ALLOWED BY THE LOCAL ENFORCING AGENCY, AS PERMITTED BY SECTION 101.8 ALTERNATE MATERIALS, DESIGNS AND METHODS OF CONSTRUCTION.
5. LUMINAIRES WITH LESS THAN 6,200 INITIAL LUMINAIRE LUMENS.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS[1,2]

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING[3]					
LUMINAIRE GREATER THAN 2 MOUNTING HEIGHTS (MH) FROM PROPERTY LINE	N/A	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
LUMINAIRE BACK HEMISPHERE IS 1-2 MH FROM PROPERTY LINE	N/A	B2	B3	B4	B4
LUMINAIRE BACK HEMISPHERE IS 0.5-1 MH FROM PROPERTY LINE	N/A	B1	B2	B3	B3
LUMINAIRE BACK HEMISPHERE IS LESS THAN 0.5 MH FROM PROPERTY LINE	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
FOR AREA LIGHTING[3]	N/A	U0	U0	U0	U0
FOR ALL OTHER OUTDOOR LIGHTING, INCLUDING DECORATIVE LUMINAIRES	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING[3] (G)					
LUMINAIRE GREATER THAN 2 MH FROM PROPERTY LINE	N/A	G1	G2	G3	G4
LUMINAIRE FRONT HEMISPHERE IS 1-2 MH FROM PROPERTY LINE	N/A	G0	G1	G1	G2
LUMINAIRE FRONT HEMISPHERE IS 0.5-1 MH FROM PROPERTY LINE	N/A	G0	G0	G1	G1
LUMINAIRE FRONT HEMISPHERE IS LESS THAN 0.5 MH FROM PROPERTY LINE	N/A	G0	G0	G0	G1

1. IESNA LIGHTING ZONES 0 AND 5 ARE NOT APPLICABLE; REFER TO LIGHTING ZONES AS DEFINED IN THE CALIFORNIA ENERGY CODE AND CHAPTER 10 OF THE CALIFORNIA ADMINISTRATIVE CODE.
2. FOR PROPERTY LINES THAT ABUT PUBLIC WALKWAYS, BIKEWAYS, PLAZAS AND PARKING LOTS, THE PROPERTY LINE MAY BE CONSIDERED TO BE 5 FEET BEYOND THE ACTUAL PROPERTY FOR PURPOSE OF DETERMINING COMPLIANCE WITH THIS SECTION. FOR PROPERTY LINES THAT ABUT PUBLIC ROADWAYS AND PUBLIC TRANSIT CORRIDORS, THE PROPERTY LINE MAY BE CONSIDERED TO BE THE CENTERLINE OF THE PUBLIC ROADWAY OR PUBLIC TRANSIT CORRIDOR FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH THIS SECTION.
3. GENERAL LIGHTING LUMINAIRES IN AREAS SUCH AS OUTDOOR PARKING SALES OR STORAGE LOTS SHALL MEET THESE REDUCED RATINGS. DECORATIVE LUMINAIRES LOCATED IN THESE AREAS SHALL MEET U-VALUE LIMITS FOR "ALL OTHER OUTDOOR LIGHTING."

5.106.8.1 FACING - BACKLIGHT. LUMINAIRES WITHIN 2MH OF A PROPERTY LINE SHALL BE ORIENTED SO THAT THE NEAREST PROPERTY LINE IS BEHIND THE FIXTURE, AND SHALL COMPLY WITH THE BACKLIGHT RATING SPECIFIED IN TABLE 5.106.8 BASED ON THE LIGHTING ZONE AND DISTANCE TO THE NEAREST POINT OF THAT PROPERTY LINE.
EXCEPTION: CORNERS, IF TWO PROPERTY LINES (OR TWO SEGMENTS OF THE SAME PROPERTY LINE) HAVE EQUIDISTANT POINTS TO THE LUMINAIRE, THEN THE LUMINAIRE MAY BE ORIENTED SO THAT THE INTERSECTION OF THE TWO LINES (THE CORNER) IS DIRECTLY BEHIND THE LUMINAIRE. THE LUMINAIRE SHALL STILL USE THE DISTANCE TO THE NEAREST POINT(S) ON THE PROPERTY LINES TO DETERMINE THE REQUIRED BACKLIGHT RATING.

5.106.8.2 FACING - GLARE. FOR LUMINAIRES COVERED BY 5.106.8.1, IF A PROPERTY LINE ALSO EXISTS WITHIN OR EXTENDS IN THE FRONT HEMISPHERE WITHIN 2MH OF THE LUMINAIRE THEN THE LUMINAIRE SHALL COMPLY WITH THE MORE STRINGENT GLARE RATING SPECIFIED IN TABLE 5.106.8 BASED ON THE LIGHTING ZONE AND DISTANCE TO THE NEAREST POINT ON THE NEAREST PROPERTY LINE WITHIN THE FRONT HEMISPHERE.

NOTES:

1. SEE ALSO CALIFORNIA BUILDING CODE, CHAPTER 12, SECTION 1205.7 FOR COLLEGE CAMPUS LIGHTING REQUIREMENTS FOR PARKING FACILITIES AND WALKWAYS.
2. REFER TO CHAPTER 8 (COMPLIANCE FORMS, WORKSHEETS AND REFERENCE MATERIAL) FOR IES TM-15-11 TABLE A-1, CALIFORNIA ENERGY CODE TABLES 130.2-A AND 130.2-B.
3. REFER TO THE CALIFORNIA ENERGY CODE FOR REQUIREMENTS FOR ADDITIONS AND ALTERATIONS.

5.106.10 GRADING AND PAVING. CONSTRUCTION PLANS SHALL INDICATE HOW SITE GRADING OR A DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. EXAMPLES OF METHODS TO MANAGE SURFACE WATER INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. SWALES.
2. WATER COLLECTION AND DISPOSAL SYSTEMS.
3. FRENCH DRAINS.
4. WATER RETENTION GARDENS.
5. OTHER WATER MEASURES WHICH KEEP SURFACE WATER AWAY FROM BUILDINGS AND AID IN GROUNDWATER RECHARGE.

EXCEPTIONS: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 SCOPE [BSC-CG] CALIFORNIA ENERGY CODE [DSA-SS]. FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT MANDATORY BUILDING STANDARDS.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR THE USES DESCRIBED IN SECTIONS 5.303.1.1 AND 5.303.1.2.

5.303.1.1 BUILDINGS IN EXCESS OF 50,000 SQUARE FEET. SEPARATE SUBMETERS SHALL BE INSTALLED AS FOLLOWS:

1. FOR EACH INDIVIDUAL LEASED, RENTED OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTED TO CONSUME MORE THAN 100 GAL/DAY (380 L/DAY), INCLUDING, BUT NOT LIMITED TO, SPACES USED FOR LAUNDRY OR CLEANERS, RESTAURANT OR FOOD SERVICE, MEDICAL OR DENTAL OFFICE, LABORATORY, OR BEAUTY SALON OR BARBER SHOP.
2. WHERE SEPARATE SUBMETERS FOR INDIVIDUAL BUILDING TENANTS ARE UNFEASIBLE, FOR WATER SUPPLIED TO THE FOLLOWING SUBSYSTEMS:
   - 2.1. MAKEUP WATER FOR COOLING TOWERS WHERE FLOW THROUGH IS GREATER THAN 500 GPM (30L/S).
   - 2.2. MAKEUP WATER FOR EVAPORATIVE COOLERS GREATER THAN 6 GPM (0.04 L/S).
   - 2.3. STEAM AND HOT WATER BOILERS WITH ENERGY INPUT MORE THAN 500,000 BTU/H (147 kW).

5.303.1.2 EXCESS CONSUMPTION. A SEPARATE SUBMETER OR METERING DEVICE SHALL BE PROVIDED FOR ANY TENANT WITHIN A NEW BUILDING OR WITHIN AN ADDITION THAT IS PROJECTED TO CONSUME MORE THAN 1,000 GAL/DAY.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

5.303.3.1 WATER CLOSETS. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE US EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.
NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

5.303.3.2 URINALS.

5.303.3.2.1 WALL-MOUNTED URINALS. THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.

5.303.3.2.2 FLOOR-MOUNTED URINALS. THE EFFECTIVE FLUSH VOLUME OF FLOOR-MOUNTED URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

5.303.3.3 SHOWERHEADS [BSC-CG]

5.303.3.3.1 SINGLE SHOWERHEAD. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

5.303.3.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL THE SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.
NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

5.303.3.4 FAUCETS AND FOUNTAINS.

5.303.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS. LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.2 KITCHEN FAUCETS. KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.3 WASH FOUNTAINS. WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI].

5.303.3.4.4 METERING FAUCETS. METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.

5.303.3.4.5 METERING FAUCETS FOR WASH FOUNTAINS. METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI].

NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

5.303.3.4.6 PRE-RINSE SPRAY VALUE. WHEN INSTALLED, SHALL MEET THE REQUIREMENTS IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 20 (APPLIANCE EFFICIENCY REGULATIONS), SECTION 1605.1 (H)(4) TABLE H-2, SECTION 1605.3 (H)(4)(A), AND SECTION 1607 AND SHALL BE EQUIPPED WITH AN INTEGRAL AUTOMATIC SHUTOFF.

5.303.4.1 FOOD WASTE DISPOSERS. DISPOSERS SHALL EITHER MODULATE THE USE OF WATER TO NO MORE THAN 1 GPM WHEN THE DISPOSER IS NOT IN USE (NOT ACTIVELY GRINDING FOOD WASTE/NO-LOAD) OR SHALL AUTOMATICALLY SHUT OFF AFTER NO MORE THAN 10 MINUTES OF INACTIVITY. DISPOSERS SHALL USE NO MORE THAN 8 GPM OF WATER.
NOTE: THIS CODE SECTION DOES NOT AFFECT LOCAL JURISDICTION AUTHORITY TO PROHIBIT OR REQUIRE DISPOSER INSTALLATION.

5.303.5 AREAS OF ADDITION OR ALTERATION. FOR THOSE OCCUPANCIES WITHIN THE AUTHORITY OF THE CALIFORNIA BUILDING STANDARDS COMMISSION AS SPECIFIED IN SECTION 103, THE PROVISIONS OF SECTION 5.303.3 AND 5.303.4 SHALL APPLY TO NEW FIXTURES IN ADDITIONS OR AREAS OF ALTERATION TO THE BUILDING.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE AND IN CHAPTER 6 OF THIS CODE.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. NONRESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICHEVER IS MORE STRINGENT.

NOTES:

1. THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) IS LOCATED IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 23, CHAPTER 2.7, DIVISION 2.
2. MWELO AND SUPPORTING DOCUMENTS, INCLUDING A WATER BUDGET CALCULATOR, ARE AVAILABLE AT: HTTPS://WWW.WATER.CA.GOV/

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. PROVIDE A WEATHER-RESISTANT EXTERIOR WALL AND FOUNDATION ENVELOPE AS REQUIRED BY CALIFORNIA BUILDING CODE SECTION 1402.2 (WEATHER PROTECTION), MANUFACTURER'S INSTALLATION INSTRUCTIONS OR LOCAL ORDINANCE, WHICHEVER IS MORE STRINGENT.

5.407.2 MOISTURE CONTROL. EMPLOY MOISTURE CONTROL MEASURES BY THE FOLLOWING METHODS.

5.407.2.1 SPRINKLERS. DESIGN AND MAINTAIN LANDSCAPE IRRIGATION SYSTEMS TO PREVENT SPRAY ON STRUCTURES.

5.407.2.2 ENTRIES AND OPENINGS. DESIGN EXTERIOR ENTRIES AND/OR OPENINGS SUBJECT TO FOOT TRAFFIC OR WIND-DRIVEN RAIN TO PREVENT WATER INTRUSION INTO BUILDINGS AS FOLLOWS:

5.407.2.2.1 EXTERIOR DOOR PROTECTION. PRIMARY EXTERIOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO SUCH OPENINGS PLUS AT LEAST ONE OF THE FOLLOWING:

1. AN INSTALLED AWNING AT LEAST 4 FEET IN DEPTH.
2. THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
3. THE DOOR IS RECESSED AT LEAST 4 FEET.
4. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.

5.407.2.2.2 FLASHING. INSTALL FLASHINGS INTEGRATED WITH A DRAINAGE PLANE.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT

5.408.1.1 CONSTRUCTION WASTE MANAGEMENT PLAN. WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE THAT IS MORE STRINGENT, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN THAT:

1. IDENTIFIES THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
2. DETERMINES IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).
3. IDENTIFIES DIVERSION FACILITIES WHERE CONSTRUCTION AND DEMOLITION WASTE MATERIAL COLLECTED WILL BE TAKEN.
4. SPECIFIES THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

5.408.1.2 WASTE MANAGEMENT COMPANY. UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH THIS SECTION.
NOTE: THE OWNER OR CONTRACTOR SHALL MAKE THE DETERMINATION IF THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.
EXCEPTIONS TO SECTIONS 5.408.1.1 AND 5.408.1.2:

- 1.1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS.
- 1.2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST.
- 1.3. DEMOLITION WASTE MEETING LOCAL ORDINANCE OR CALCULATED IN CONSIDERATION OF LOCAL RECYCLING FACILITIES AND MARKETS.

5.408.1.3 WASTE STREAM REDUCTION ALTERNATIVE. THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL THAT DOES NOT EXCEED TWO POUNDS PER SQUARE FOOT OF BUILDING AREA MAY BE DEEMED TO MEET THE 65 PERCENT MINIMUM REQUIREMENT AS APPROVED BY THE ENFORCING AGENCY.

5.408.1.4 DOCUMENTATION. DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTION 5.408.1.1 THROUGH 5.408.1.3. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.
NOTE:

1. SAMPLE FORMS FOUND IN "A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (NONRESIDENTIAL)" LOCATED AT WWW.BSC.CA.GOV/HOME/CALGREEN.ASPX MAY BE USED TO ASSIST IN DOCUMENTING COMPLIANCE WITH THE WASTE MANAGEMENT PLAN.
2. MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C&D) PROCESSORS CAN BE LOCATED AT THE CALIFORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CALRECYCLE).

5.408.2 UNIVERSAL WASTE [A]. ADDITIONS AND ALTERATIONS TO A BUILDING OR TENANT SPACE THAT MEET THE SCOPING PROVISIONS IN SECTION 301.3 FOR NONRESIDENTIAL ADDITIONS AND ALTERATIONS, SHALL REQUIRE VERIFICATION THAT UNIVERSAL WASTE ITEMS SUCH AS FLUORESCENT LAMPS AND BALLAST AND MERCURY CONTAINING THERMOSTATS AS WELL AS OTHER CALIFORNIA PROHIBITED UNIVERSAL WASTE MATERIALS ARE DISPOSED OF PROPERLY AND ARE DIVERTED FROM LANDFILLS. A LIST OF PROHIBITED UNIVERSAL WASTE MATERIALS SHALL BE INCLUDED IN THE CONSTRUCTION DOCUMENTS.
NOTE: REFER TO THE UNIVERSAL WASTE RULE LINK AT: HTTP://WWW.DTSC.CA.GOV/UNIVERSALWASTE/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED.
EXCEPTION: REUSE, EITHER ON OR OFF-SITE, OF VEGETATION OR SOIL CONTAMINATED BY DISEASE OR PEST INFESTATION.
NOTE:

- 1.1. IF CONTAMINATION BY DISEASE OR PEST INFESTATION IS SUSPECTED, CONTACT THE COUNTY AGRICULTURAL COMMISSIONER AND FOLLOW ITS DIRECTION FOR RECYCLING OR DISPOSAL OF THE MATERIAL.
- 1.2. FOR A MAP OF KNOW PEST AND/OR DISEASE QUARANTINE ZONES, CONSULT WITH THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE. (WWW.CDFA.CA.GOV)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATION

5.410.1 RECYCLING BY OCCUPANTS. PROVIDE READILY ACCESSIBLE AREAS THAT SERVE THE ENTIRE BUILDING AND ARE IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS, ORGANIC WASTE, AND METALS OR MEET A LAWFULLY ENACTED LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE.
EXCEPTION: RURAL JURISDICTIONS THAT MEET APPLY FOR THE EXEMPTION OF PUBLIC RESOURCES CODE 42649.82 (a)(2

TABLE 5.504.4.3 VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS (GRAMS OF VOC PER LITER OF COATING, LESS WATER AND LESS EXEMPT COMPOUNDS)	
COATING CATEGORY	**CURRENT LIMIT**
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS [1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS AND UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SELAERS AND UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB AND TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER AND INCLUDING EXEMPT COMPOUNDS.
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEBRUARY 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.1 AEROSOL PAINTS AND COATINGS. AEROSOL PAINTS AND COATINGS SHALL MEET THE PWMIR LIMITS FOR ROC IN SECTION 94522 (a)(3) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES. IN SECTIONS 94522 (c)(2) AND (d)(2) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8 RULE 49.

5.504.4.3.2 VERIFICATION. VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:

1. MANUFACTURER'S PRODUCT SPECIFICATION.
2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.

5.504.4.4 CARPET SYSTEMS. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET AT LEAST ONE OF THE FOLLOWING TESTING AND PRODUCT REQUIREMENTS:

1. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM;
2. COMPLIANT WITH THE VOC-EMISSION LIMITS AND TESTING REQUIREMENTS SPECIFIED IN THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION1.1, FEBRUARY 2010 (ALSO KNOWN AS CDPH STANDARD METHOD V1.1 OR SPECIFICATION 01350);
3. NSF/ANSI 140 AT THE GOLD LEVEL OR HIGHER;
4. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE; OR
5. COMPLIANT WITH THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS CALIFORNIA (CA-CHPS) CRITERIA 2014 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE.

5.504.4.4.1 CARPET CUSHION. ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PROGRAM.

5.504.4.4.2 CARPET ADHESIVE. ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.

5.504.4.5 COMPOSITE WOOD PRODUCTS. HARDWOOD PLYWOOD, PARTICLEBOARD, AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED O NTHE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE (ATCM) FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.). THOSE MATERIALS NOT EXEMPTED BY THE ATCM MUST MEET THE SPECIFIED EMISSION LIMITS AS SHOWN IN TABLE 5.504.4.5.

5.504.4.5.3 DOCUMENTATION. VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE FOLLOWING:

1. PRODUCT CERTIFICATIONS AND SPECIFICATIONS.
2. CHAIN OF CUSTODY CERTIFICATIONS.
3. PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR, TITLE 17, SECTION 93120, ET SEQ.).
4. EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION, THE AUTRALIAN AS/NZS 2269 OR EUROPEAN 636 3S STANDARDS.
5. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

TABLE 5.504.4.5 FORMALDEHYDE LIMITS (MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION)	
PRODUCT	**CURRENT LIMIT**
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLEBOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCH (8 MM).

5.504.4.6 RESILIENT FLOORING SYSTEMS. WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.
HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAGES/VOC.ASPX#MATERIAL

5.504.4.6.1 VERIFICATION OF COMPLIANCE. DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS.

5.504.4.7 THERMAL INSULATION. COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD OF THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350). SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.
HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAGES/VOC.ASPX#MATERIAL

5.504.4.7.1 VERIFICATION OF COMPLIANCE. DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT THERMAL INSULATION MATERIALS MEET THE POLLUTANT EMISSION LIMITS.

5.504.4.8 ACOUSTICAL CEILING AND WALL PANELS. COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350). SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS. HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAGES/VOC.ASPX#MATERIAL

5.504.4.8.1 VERIFICATION OF COMPLIANCE. DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT ACOUSTICAL FINISH MATERIALS MEET THE POLLUTANT EMISSION LIMITS.

5.504.5.3 FILTERS. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.
EXCEPTION: EXISTING MECHANICAL EQUIPMENT.

5.504.5.3.1 LABELING. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, PROHIBIT SMOKING WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE WINDOWS AND WITHIN THE BUILDING AS ALREADY PROHIBITED BY OTHER LAWS OR REGULATIONS; OR AS ENFORCED BY ORDINANCES, REGULATIONS OR POLICIES OF ANY CITY, COUNTY, CITY AND COUNTY, CALIFORNIA COMMUNITY COLLEGE, CAMPUS OF THE CALIFORNIA STATE UNIVERSITY, OR CAMPUS OF UNIVERSITY OF CALIFORNIA, WHICHEVER ARE MORE STRINGENT. WHEN ORDINANCES, REGULATIONS OR POLICIES ARE NOT IN PLACE, POST SIGNAGE TO INFORM BUILDING OCCUPANTS OF THE PROHIBITIONS.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTIONS 1202 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS). FOR ADDITIONAL MEASURES SEE SECTION 5.407.2 OF THIS CODE.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 (REQUIREMENTS FOR VENTILATION) OF THE CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION. CO_2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE, SECTION 120(C)(4).

5.506.3 CARBON DIOXIDE (C02) MONITORING IN CLASSROOMS. EACH PUBLIC K-12 SCHOOL CLASSROOM, AS LISTED IN TABLE 120.1-A OF THE CALIFORNIA ENERGY CODE, SHALL BE EQUIPPED WITH A CARBON DIOXIDE MONITOR OR SENSOR THAT MEETS THE FOLLOWING REQUIREMENTS :

1. THE MONITOR OR SENSOR SHALL BE PERMANENTLY AFFIXED IN A TAMPER-PROOF MANNER IN EACH CLASSROOM BETWEEN 3 AND 6 FEET (914 MM AND 1829 MM) ABOVE THE FLOOR AND AT LEAST 5 FEET (1523 MM) AWAY FROM DOOR AND OPERABLE WINDOWS.
2. WHEN THE MONITOR OR SENSOR IS NOT INTEGRAL TO AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS), THE MONITOR OR SENSOR SHALL DISPLAY THE CARBON DIOXIDE READINGS ON THE DEVICE. WHEN THE SENSOR IS INTEGRAL TO AN EMCS, THE CARBON DIOXIDE READINGS SHALL BE AVAILABLE TO AND REGULARLY MONITORED BY FACILITY PERSONNEL.
3. A MONITOR SHALL PROVIDE NOTIFICATION THOUGH A VISUAL INDICATOR ON THE MONITOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM. A SENSOR INTEGRAL TO AN EMCS SHALL PROVIDE NOTIFICATION TO FACILITY PERSONNEL THROUGH A VISUAL AND/OR AUDIBLE INDICATOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM.
4. THE MONITOR OR SENSOR SHALL MEASURE CARBON DIOXIDE LEVELS AT MINIMUM 15-MINUTE INTERVALS AND SHALL MAINTAIN A RECORD OF PREVIOUS CARBON DIOXIDE MEASUREMENTS OF NOT LESS THAN 30 DAYS DURATION.
5. THE MONITOR OR SENSOR USED TO MEASURE CARBON DIOXIDE LEVELS SHALL HAVE THE CAPACITY TO MEASURE CARBON DIOXIDE LEVELS WITH A RANGE OF 400 PPM TO 2000 PPM OR GREATER.
6. THE MONITOR OR SENSOR SHALL BE CERTIFIED BY THE MANUFACTURER TO BE ACCURATE WITHIN 75 PPM AT 1,000 PPM CARBON DIOXIDE CONCENTRATION AND SHALL BE CERTIFIED BY THE MANUFACTURER TO REQUIRE CALIBRATION NO MORE FREQUENTLY THAN ONCE EVERY 5 YEARS.

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL COMFORT. EMPLOY BUILDING ASSEMBLIES AND COMPONENTS WITH SOUND TRANSMISSION CLASS (STC) VALUES DETERMINED IN ACCORDANCE WITH ASTM E 90 AND ASTM E 413 OR OUTDOOR - INDOOR SOUND TRANSMISSION CLASS (OITC) DETERMINED IN ACCORDANCE WITH ASTM E 1332, USING EITHER THE PRESCRIPTIVE OR PERFORMANCE METHOD IN SECTION 5.507.4.1 OR 5.507.4.2.
EXCEPTION: BUILDINGS WITH FEW OR NO OCCUPANTS OR WHERE OCCUPANTS ARE NOT LIKELY TO BE AFFECTED BY EXTERIOR NOISE, AS DETERMINED BY THE ENFORCEMENT AUTHORITY, SUCH AS FACTORIES, STADIUMS, STORAGE, ENCLOSED PARKING STRUCTURES AND UTILITY BUILDINGS.
EXCEPTION: [DSA-SS] FOR PUBLIC SCHOOLS AND COMMUNITY COLLEGES, THE REQUIREMENT OF THIS SECTION AND ALL SUBSECTIONS APPLY ONLY TO NEW CONSTRUCTION.

5.507.4.1 EXTERIORS NOISE TRANSMISSION, PRESCRIPTIVE METHOD. WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MAKING UP THE BUILDING OR ADDITION ENVELOPE OR ALTERED ENVELOPE SHALL MEET A COMPOSITE STC RATING OF AT LEAST 50 OR A COMPOSITE OITC RATING OF NO LESS THAN 40, WITH EXTERIOR WINDOWS OF A MINIMUM STC OF 40 OR OITC OF 30 IN THE FOLLOWING LOCATIONS:

1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT.
   EXCEPTIONS:
   1.1. L_{DN} OR CNEL FOR MILITARY AIRPORTS SHALL BE DETERMINED BY THE FACILITY AIR INSTALLATION COMPATIBLE LAND USE ZONE (AICUZ) PLAN.
   1.2. L_{DN} OR CNEL FOR OTHER AIRPORTS AND HELIPORTS FOR WHICH A LAND USE PLAN HAS NOT BEEN DEVELOPED SHALL BE DETERMINED BY THE LOCAL GENERAL PLAN NOISE ELEMENT.
2. WITHIN THE 65 CNEL OR L_{DN} NOISE CONTOUR OF A FREEWAY OR EXPRESSWAY, RAILROAD, INDUSTRIAL SOURCE OR FIXED-GUIDEWAY SOURCE AS DETERMINED BY THE NOISE ELEMENT OF THE GENERAL PLAN.

5.507.4.1.1 NOISE EXPOSURE WHERE NOISE CONTOURS ARE NOT READILY AVAILABLE. BUILDINGS EXPOSED TO A NOISE LEVEL OF 65 dBL_{EQ}-1-HR DURING ANY HOUR OF OPERATION SHALL HAVE BUILDING, ADDITION OR ALTERATION EXTERIOR WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MEETING A COMPOSITE STC RATING OF AT LEAST 45 (OR OITC 35), WITH EXTERIOR WINDOWS OF A MINIMUM STC OF 40 (OR OITC 30).

5.507.4.2 PERFORMANCE METHOD. FOR BUILDINGS LOCATED AS DEFINED IN SECTION 5.507.4.1 OR 5.507.4.1.1, WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MAKING UP THE BUILDING OR ADDITION ENVELOPE OR ALTERED ENVELOPE SHALL BE CONSTRUCTED TO PROVIDE AN INTERIOR NOISE ENVIRONMENT ATTRIBUTABLE TO EXTERIOR SOURCES THAT DOES NOT EXCEED AN HOURLY EQUIVALENT NOISE LEVEL (L_{EQ}-1HR) OF 50 dBA IN OCCUPIED AREAS DURING ANY HOUR OF OPERATION.

5.507.4.2.1 SITE FEATURES. EXTERIOR FEATURES SUCH AS SOUND WALL OR EARTH BERMS MAY BE UTILIZED AS APPROPRIATE TO THE BUILDING, ADDITION OR ALTERATION PROJECT TO MITIGATE SOUND MIGRATION TO THE INTERIOR.

5.507.4.2.2 DOCUMENTATION OF COMPLIANCE. AN ACOUSTICAL ANALYSIS DOCUMENTING COMPLYING INTERIOR SOUND LEVELS SHALL BE PREPARED BY PERSONNEL APPROVED BY THE ARCHITECT OR ENGINEER OF RECORD.

5.507.4.3 INTERIOR SOUND TRANSMISSION. WALL AND FLOOR-CEILING ASSEMBLIES SEPARATING TENANT SPACES AND TENANT SPACES AND PUBLIC PLACES SHALL HAVE AN STC OF AT LEAST 40.
NOTE: EXAMPLES OF ASSEMBLIES AND THEIR VARIOUS STC RATING MAY BE FOUND AT THE CALIFORNIA OFFICE OF NOISE CONTROL:
HTTPS://WWW.TSIB.ORG/FILES/STC_IIC_RATINGS.PDF

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.

5.508.1.1 CHLOROFLUOROCARBONS (CFCS). INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.

5.508.1.2 HALONS. INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

5.508.2.1 REFRIGERANT PIPING. PIPING COMPLIANT WITH THE CALIFORNIA MECHANICAL CODE SHALL BE INSTALLED TO BE ACCESSIBLE FOR LEAK PROTECTION AND REPAIRS. PIPING RUNS USING THREADED PIPE, COPPER TUBING WITH AN OUTSIDE DIAMETER (OD) LESS THAN 1/4 INCH, FLARED TUBING CONNECTIONS AND SHORT RADIUS ELBOWS SHALL NOT BE USED IN REFRIGERANT SYSTEMS EXCEPT AS NOTED BELOW.

5.508.2.1.1 THREADED PIPE. THREADED CONNECTIONS ARE PERMITTED AT THE COMPRESSOR RACK.

5.508.2.1.2 COPPER PIPE. COPPER TUBING WITH AN OD LESS THAN 1/4 INCH MAY BE USED IN SYSTEMS WITH A REFRIGERANT CHARGE OF 5 POUNDS OR LESS.

5.508.2.1.2.1 ANCHORAGE. ONE-FOURTH-INCH OD TUBING SHALL BE SECURELY CLAMPED TO A RIGID BASE TO KEEP VIBRATION LEVELS BELOW 8 MILS.

5.508.2.1.3 FLARED TUBING CONNECTIONS. DOUBLE-FLARED TUBING CONNECTIONS MAY BE USED FOR PRESSURE CONTROLS, VALVE PILOT LINES AND OIL.
EXCEPTION: SINGLE-FLARED TUBING CONNECTIONS MAY BE USED WITH A MULTIRING SEAL COATED WITH INDUSTRIAL SEALANT SUITABLE FOR USE WITH REFRIGERANTS AND TIGHTENED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

5.508.2.1.4 ELBOWS. SHORT RADIUS ELBOWS ARE ONLY PERMITTED WHERE SPACE LIMITATIONS PROHIBIT USE OF LONG RADIUS ELBOWS.

5.508.2.2 VALVES. VALVES AND FITTINGS SHALL COMPLY WITH THE CALIFORNIA MECHANICAL CODE AND AS FOLLOWS.

5.508.2.2.1 PRESSURE RELIEF VALVES. FOR VESSELS CONTAINING HIGH-GWP REFRIGERANT, A RUPTURE DISC SHALL BE INSTALLED BETWEEN THE OUTLET OF THE VESSEL AND THE INLET OF THE PRESSURE RELIEF VALVE.

5.508.2.2.1.1 PRESSURE DETECTION. A PRESSURE GAUGE, PRESSURE TRANSDUCER OR OTHER DEVICE SHALL BE INSTALLED IN THE SPACE BETWEEN THE RUPTURE DISC AND THE RELIEF VALVE INLET TO INDICATE A DISC RUPTURE OR DISCHARGE OF THE RELIEF VALVE.

5.508.2.2.2 ACCESS VALVES. ONLY SCHRADER ACCESS VALVES WITH A BRASS OR STEEL BODY ARE PERMITTED FOR USE.

5.508.2.2.2.1 VALVE CAPS. FOR SYSTEMS WITH A REFRIGERANT CHARGE OF 5 POUNDS OR MORE, VALVE CAPS SHALL BE BRASS OR STEEL ANDNOT PLASTIC.

5.508.2.2.2.2 SEAL CAPS. IF DESIGNED FOR IT, THE CAP SHALL HAVE A NEOPRENE O-RING IN PLACE.

5.508.2.2.2.2.1 CHAIN TETHERS. CHAIN TETHERS TO FIT OVER THE STEM ARE REQUIRED FOR VALVES DESIGNED TO HAVE SEAL CAPS.
EXCEPTION: VALVES WITH SEAL CAPS THAT ARE NOT REMOVED FROM THE VALVE DURING STEM OPERATION.

5.508.2.3 REFRIGERATED SERVICE CASES. REFRIGERATED SERVICE CASES HOLDING FOOD PRODUCTS CONTAINING VINEGAR AND SALT SHALL HAVE EVAPORATOR COILS OF CORROSION-RESISTANT MATERIAL, SUCH AS STAINLESS STEEL; OR BE COATED TO PREVENT CORROSION FROM THESE SUBSTANCES.

5.508.2.3.1 COIL COATING. CONSIDERATION SHALL BE GIVEN TO THE HAT TRANSFER EFFICIENCY OF COIL COATING TO MAXIMIZE ENERGY EFFICIENCY.

5.508.2.4 REFRIGERANT RECEIVERS. REFRIGERANT RECEIVERS WITH CAPACITIES GREATER THAN 200 POUNDS SHALL BE FITTED WITH A DEVICE THAT INDICATES THE LEVEL OF REFRIGERANT IN THE RECEIVER.

5.508.2.5 PRESSURE TESTING. THE SYSTEM SHALL BE PRESSURE TESTED DURING INSTALLATION PRIOR TO EVACUATION AND CHARGING.

5.508.2.5.1 MINIMUM PRESSURE. THE SYSTEM SHALL BE CHARGED WITH REGULATED DRY NITROGEN AND APPROPRIATE TRACER GAS TO BRING SYSTEM PRESSURE UP TO 300 PSIG MINIMUM.

5.508.2.5.2 LEAKS. CHECK THE SYSTEM FOR LEAKS, REPAIR ANY LEAKS, AND RETEST FOR PRESSURE USING THE SAME GAUGE.

5.508.2.5.3 ALLOWABLE PRESSURE CHANGE. THE SYSTEM SHALL STAND, UNALTERED, FOR 24 HOURS WITH NO MORE THAN A +/- ONE POUND PRESSURE CHANGE FROM 300 PSIG, MEASURED WITH THE SAME GAUGE.

5.508.2.6 EVACUATION. THE SYSTEM SHALL BE EVACUATED AFTER PRESSURE TESTING AND PRIOR TO CHARGING.

5.508.2.6.1 FIRST VACUUM. PULL A SYSTEM VACUUM DOWN TO AT LEAST 1000 MICRONS (+/- 50 MICRONS), AND HOLD FOR 30 MINUTES.

5.508.2.6.2 SECOND VACUUM. PULL A SECOND SYSTEM VACUUM TO A MINIMUM OF 500 MICRONS AND HOLD FOR 30 MINUTES.

5.508.2.6.3 THIRD VACUUM. PULL A THIRD VACUUM DOWN TO A MINIMUM OF 300 MICRONS, AND HOLD FOR 24 HOURS WITH A MAXIMUM DRIFT OF 100 MICRONS OVER A 24-HOUR PERIOD.

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DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

CALGREEN MANDATORY MEASURES

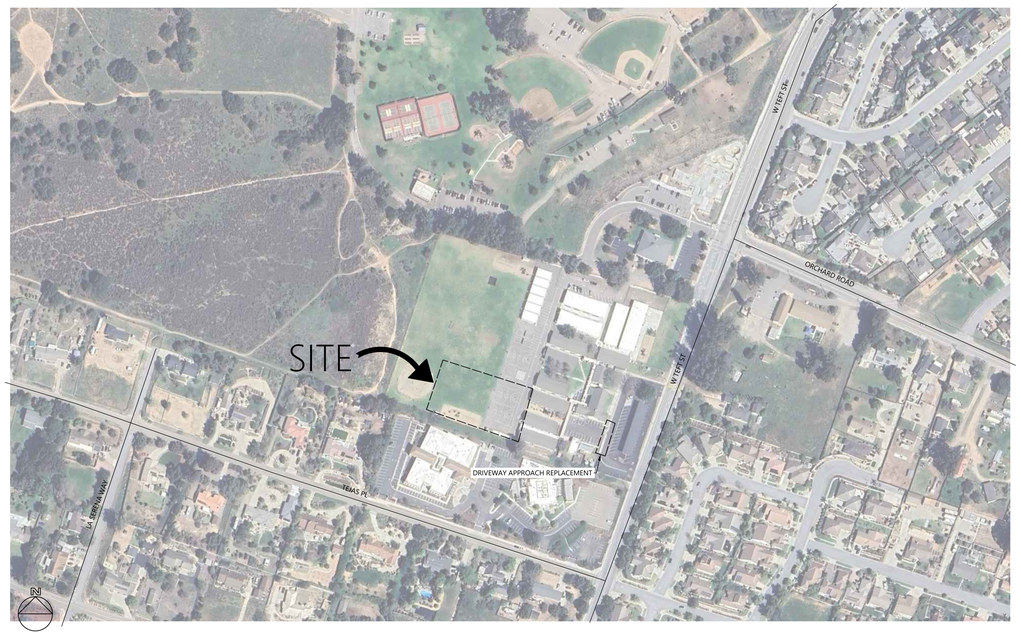
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

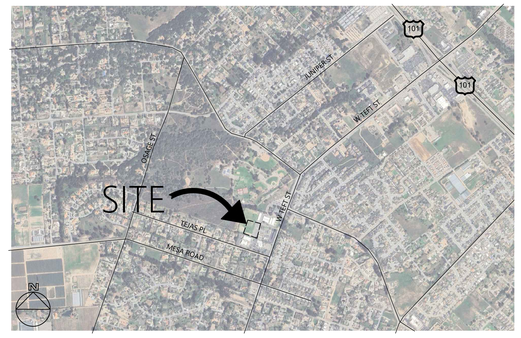
DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: DATE:
24149 DSA V2 SUBMITTAL: 06-12-26

T6

LMUSD - DANA ELEMENTARY SCHOOL
GRADING AND DRAINAGE PLAN
TWO NEW CLASSROOM BUILDINGS



SITE MAP
NTS



VICINITY MAP
NTS

GRADING NOTES:

1. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE CONDITION OF THE JOB SITE DURING THE COURSE OF CONSTRUCTION FOR THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE DESIGN PROFESSIONAL FROM ANY AND ALL LIABILITY REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPTING LIABILITY ARISING FROM NEGLIGENCE OF THE OWNER OR ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK AREA AND SHALL EXERCISE DUE CAUTION TO AVOID DAMAGE TO SUCH PROPERTY. THE CONTRACTOR SHALL REPLACE AND REPAIR TO THEIR ORIGINAL CONDITIONS ALL EXISTING IMPROVEMENTS WITHIN OR ADJACENT TO THE WORK AREA WHICH ARE NOT DESIGNED FOR REMOVAL, AND ARE DAMAGED OR REMOVED AS A RESULT OF THIS OPERATION.
3. IN THE EVENT THAT PROJECT CONSTRUCTION CONTINUES DURING WET WINTER MONTHS, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN OR WINTERIZE THE ROADS FOR EMERGENCY VEHICLES.
4. THE CONTRACTOR IS RESPONSIBLE TO BE FULLY INFORMED OF AND TO COMPLY WITH ALL LAWS, ORDINANCES, CODES, REQUIREMENTS, AND STANDARDS WHICH IN ANY MANNER AFFECT THE COURSE OF CONSTRUCTION OF THIS PROJECT, THOSE ENGAGED OR EMPLOYED IN THE CONSTRUCTION, OR THE MATERIALS USED IN THE CONSTRUCTION.
5. ALL GRADING SHALL CONFORM TO THE COUNTY OF SAN LUIS OBISPO ORDINANCES AND STANDARDS PERTAINING THERETO (2019 CALIFORNIA BUILDING CODE) AND SHALL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH COUNTY OF SAN LUIS OBISPO ORDINANCES TITLE 19 (BUILDING AND CONSTRUCTION) AND TITLE 22 (LAND USE ORDINANCE ENACTMENT AND APPLICABILITY).
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DISTURBED SHALL BE RESET AT CONTRACTOR'S EXPENSE.
7. IN THE EVENT CONSTRUCTION STAKING BASED ON CLAD CONSULTING DRAWINGS, OR OTHER DOCUMENTS IS PERFORMED BY ANOTHER FIRM, CLAD CONSULTING SHALL BE HELD HARMLESS AND RELEASED FROM ALL LIABILITY ARISING FROM THE USE OF SAID PLANS, DRAWINGS, OR OTHER DOCUMENTS.
8. UNLESS OTHERWISE NOTED, ALL TREES ARE TO BE PROTECTED IN PLACE. ALL TREES LOCATED NEAR OR AROUND CONSTRUCTION OPERATIONS SHALL HAVE ORANGE BARRIER INSTALLED ON T-POST ALONG THE DRIP LINE OF THE TREE DURING CONSTRUCTION.
9. SHOULD ANY CULTURAL MATERIALS BE DISCOVERED DURING GRADING OR DEVELOPMENT, ALL WORK SHALL BE HALTED AND A QUALIFIED ARCHAEOLOGIST / HISTORIAN CONTACTED TO ASSESS THE FINDS AND IMPOSE MITIGATION MEASURES, IF NECESSARY, PRIOR TO RESUMPTION OF CONSTRUCTION.
10. IF, DURING GRADING OR CONSTRUCTION, ANY PLUGGED AND ABANDONED OR UNRECORDED WELLS ARE UNCOVERED OR DAMAGED, THE DEPARTMENT OF CONSERVATION OF OIL, GAS AND GEOTHERMAL RESOURCES SHALL BE CONTACTED TO INSPECT AND APPROVE ANY REMEDIATION REQUIRED.
11. AN EFFORT HAS BEEN MADE TO DEFINE THE LOCATION OF UNDERGROUND FACILITIES WITHIN THE JOBSITE. HOWEVER, ALL EXISTING UTILITY AND OTHER UNDERGROUND STRUCTURES MAY NOT BE SHOWN ON THIS PLAN AND THEIR LOCATIONS WHEN SHOWN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES AND OTHER FACILITIES, BOTH KNOWN AND UNKNOWN, PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT U.S.A. (811) FOR UTILITY LOCATION 48 HOURS PRIOR TO ANY EXCAVATION OR TRENCHING.
12. THE CONTRACTOR SHALL MARK ALL UTILITY LOCATIONS AND SHALL POTHOLE ALL UTILITY CROSSINGS, PRIOR TO STAKING AND PRIOR TO ANY PIPELINE EXCAVATION TO ALLOW GRADE REVISIONS IF NECESSITATED BY ACTUAL LOCATIONS.
13. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE AND ACCURATE RECORD OF ALL CHANGES TO THE PLANS. NO CHANGES SHALL BE MADE WITHOUT APPROVAL OF THE PROJECT ENGINEER.
14. ALL GRADING IMPROVEMENTS SHALL BE OBSERVED BY A LICENSED CIVIL ENGINEER TO DETERMINE IF THE IMPROVEMENTS ARE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THE REQUEST FOR THE FINAL INSPECTION ONLY WHEN THE IMPROVEMENTS HAVE BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS. THE CIVIL ENGINEER SHALL BE PRESENT WHEN THE FINAL INSPECTION IS MADE.
15. THE CUT AND FILL QUANTITIES SHOWN ON THIS PLAN ARE FOR PERMIT PURPOSES ONLY. THE CONTRACTOR SHALL, AFTER EXAMINING THE PLAN, SOILS REPORT AND THE SITE TERRAIN, PREPARE HIS BID PRICE FOR THE PROJECT BASED ON HIS OWN ANALYSIS OF THE WORK REQUIRED.
16. THE SOILS ENGINEER MUST APPROVE ALL SOIL COMPACTION INCLUDING THE STABILITY OF ALL SLOPES, BOTH THOSE THAT ARE CREATED BY AND THOSE REMAINING AFTER GRADING OPERATIONS.
17. CIVIL ENGINEER, GEOTECHNICAL ENGINEER, AND BUILDING OFFICIAL SHALL BE NOTIFIED 48 HOURS PRIOR TO PLACEMENT OF ANY FILL.
18. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE COUNTY OF SAN LUIS OBISPO STANDARDS AND SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED AND MADE A PART HEREOF IN THE SOILS REPORT PREPARED BY PACIFIC COAST TESTING DATED MARCH 29, 2019. COMPACTION TESTS SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE SOILS ENGINEER.
19. FILL MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE SOILS ENGINEER.
20. THE GEOTECHNICAL ENGINEER SHALL REVIEW ALL EXCAVATIONS PRIOR TO BACKFILLING AND SHALL BE NOTIFIED OF ANY ITEM ENCOUNTERED DURING THE GRADING OPERATIONS THAT MIGHT AFFECT FOUNDATION STABILITY SO RECOMMENDATIONS CAN BE MADE BY THE SOIL ENGINEER
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING OF PAD AREA TO WITHIN ±0.1'. IF ELEVATION OF DESIGN ELEVATION PAD SHOULD BE FOUND TO BE MORE THAN ±0.1' OFF OF DESIGN ELEVATION AFTER COMPLETION AND ACCEPTANCE OF GRADING, THE CONTRACTOR SHALL RETURN AND CORRECT THE GRADING AT NO COST TO THE OWNER.
22. ALL AREAS ON THE SITE ON WHICH STRUCTURES ARE TO BE PLACED MUST BE COMPACTED TO 90% MAXIMUM DRY DENSITY, FOR A MINIMUM DISTANCE OF 5' IN ALL DIRECTIONS FROM THE FOUNDATIONS OF THE STRUCTURE OR PER THE GEOTECHNICAL REPORT, WHICHEVER IS GREATER.
23. ALL FILL SHALL CONFORM TO THE REQUIREMENTS FOR "ENGINEERED FILL" AS DESCRIBED IN THE SOILS REPORT.
24. FILL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING SIX (6) INCHES IN COMPACTED THICKNESS AND COMPACTED AT OPTIMUM MOISTURE CONTENT BY AN APPROVED METHOD.
25. ENGINEERED FILL SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PRELIMINARY SOILS REPORT FROM GEOTECHNICAL ENGINEER AND MUST BE COMPACTED TO 90% OF MAXIMUM DRY DENSITY.
26. THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODE WITHIN HIS PURVIEW.
27. UPON COMPLETION OF GRADING AND BEFORE THE START OF CONSTRUCTION, A FINAL SOILS REPORT COVERING THE SITE PREPARATION AND GRADING SHALL BE SUBMITTED BY THE SOILS ENGINEER.
28. ALL GRADING SHALL CONFORM TO TITLE 19 OF THE COUNTY ORDINANCE AND STANDARDS PERTAINING THERETO.
29. ALL CUT SLOPES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE APPROVED IN THE SOILS REPORT.
30. ALL FILL SLOPES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.
31. FINISHED SLOPES NEARER THAN FIVE FEET FORM BUILDING FOUNDATIONS SHOULD BE GRADED NO STEEPER THAN 5:1. A SLOPE RATIO OF 2:1 SHOULD PROVIDE ADEQUATE STABILITY FOR SLOPES FARTHER THAN FIVE FEET FROM FOOTING LINES.
32. AN OSHA PERMIT IS REQUIRED WHEN WORKERS MUST ENTER TRENCHES OR EXCAVATION FIVE (5) FEET OR DEEPER.
33. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION. CONTRACTORS SHALL OBTAIN APPLICABLE O.S.H.A. PERMITS WHEN WORKMEN MUST ENTER TRENCHES GREATER THAN FIVE FEET. REFER TO SOILS REPORT FOR ALLOWABLE SLOPES.
34. ALL FILL AREAS SHALL BE CLEARED OF ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FOR A STRUCTURAL FILL AND THE AREA SCARIFIED TO A DEPTH OF 12".
35. ALL SLOPES IN EXCESS OF 3' IN VERTICAL HEIGHT SHALL BE PREPARED AND MAINTAINED TO CONTROL AGAINST EROSION.
36. GRADING WORK WILL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH TITLE 19 OF THE COUNTY ORDINANCE.
37. FILL AREAS SLOPING STEEPER THAN 5:1 SHALL BE KEYED AND BENCHED TO SUPPORT THE FILL.
38. BERMS OF DRAINAGE DEVICES SHALL BE PLACED AT THE TOP OF ALL FILL SLOPES.
39. CLAD CONSULTING, INC. SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED IN WRITING BY CLAD CONSULTING, INC.
40. IF THE CONTRACTOR IS IN DOUBT AS TO THE MEANING OF ANY PART OF THE PLAN AND SPECIFICATIONS OR FINDS DISCREPANCIES IN OR OMISSIONS FROM THE DRAWING OR SPECIFICATIONS, HE SHALL SUBMIT A WRITTEN REQUEST FOR AN INTERPRETATION OR A CORRECTION THEREOF, PRIOR TO FILING HIS BID FOR THE PROJECT.
41. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT A DUST NUISANCE FROM ORIGINATING FROM THE SITE OF WORK AS A RESULT OF HIS OPERATIONS DURING THE EFFECTIVE PERIOD OF THIS CONTRACT. DUST CONTROL SHALL CONFORM TO THE COUNTY OF SAN LUIS OBISPO AIR POLLUTION CONTROL DISTRICT REGULATIONS. PREVENTATIVE MEASURES TO BE TAKEN BY THE CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

    41.a. WATER SHALL BE APPLIED TO ALL UNPAVED AREAS AS REQUIRED TO PREVENT THE SURFACES FROM BECOMING DRY ENOUGH TO PERMIT DUST FORMATION.

    41.b. PAVED SURFACES OVER WHICH VEHICULAR TRAFFIC IS PERMITTED TO TRAVEL SHALL BE KEPT FREE OF DIRT.
42. A SOILS OR CIVIL ENGINEER TO DETERMINE GRADING PERFORMED IS IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS AND IS SUITABLE TO SUPPORT THE INTENDED STRUCTURE.
43. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE INSPECTOR TO GO OVER THE SPECIAL INSPECTION REPORTING REQUIREMENTS, EROSION & SEDIMENTATION CONTROL, SWPPP, QSP AND REPORTS REQUIRED CALL MICHELLE FREEMAN, 781-5707.
44. FINAL REPORTS SHALL BE REQUIRED IN ACCORDANCE WITH TITLE 19.12.150 AND 19.12.160(A). (CBC 1704.6)

CONSTRUCTION GENERAL NOTES:

1. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE CONDITION OF THE JOB SITE DURING THE COURSE OF CONSTRUCTION FOR THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE DESIGN PROFESSIONAL FROM ANY AND ALL LIABILITY REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPTING LIABILITY ARISING FROM NEGLIGENCE OF THE OWNER OR ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK AREA AND SHALL EXERCISE DUE CAUTION TO AVOID DAMAGE TO SUCH PROPERTY. THE CONTRACTOR SHALL REPLACE AND REPAIR TO THEIR ORIGINAL CONDITIONS ALL EXISTING IMPROVEMENTS WITHIN OR ADJACENT TO THE WORK AREA WHICH ARE NOT DESIGNED FOR REMOVAL, AND ARE DAMAGED OR REMOVED AS A RESULT OF THIS OPERATION.
3. IN THE EVENT THAT PROJECT CONSTRUCTION CONTINUES DURING WET WINTER MONTHS, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN OR WINTERIZE THE ROADS FOR EMERGENCY VEHICLES.
4. THE CONTRACTOR IS RESPONSIBLE TO BE FULLY INFORMED OF AND TO COMPLY WITH ALL LAWS, ORDINANCES, CODES, REQUIREMENTS, AND STANDARDS WHICH IN ANY MANNER AFFECT THE COURSE OF CONSTRUCTION OF THIS PROJECT, THOSE ENGAGED OR EMPLOYED IN THE CONSTRUCTION, OR THE MATERIALS USED IN THE CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DISTURBED SHALL BE RESET AT CONTRACTOR'S EXPENSE.
6. SHOULD ANY CULTURAL MATERIALS BE DISCOVERED DURING GRADING OR DEVELOPMENT, ALL WORK SHALL BE HALTED AND A QUALIFIED ARCHAEOLOGIST / HISTORIAN CONTACTED TO ASSESS THE FINDS AND IMPOSE MITIGATION MEASURES, IF NECESSARY, PRIOR TO RESUMPTION OF CONSTRUCTION.
7. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE AND ACCURATE RECORD OF ALL CHANGES TO THE PLANS. NO CHANGES SHALL BE MADE WITHOUT APPROVAL OF THE PROJECT ENGINEER.
8. ALL GRADING AND DRAINAGE IMPROVEMENTS SHALL BE OBSERVED BY A LICENSED CIVIL ENGINEER TO DETERMINE IF THE IMPROVEMENTS ARE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THE REQUEST FOR THE FINAL INSPECTION ONLY WHEN THE IMPROVEMENTS HAVE BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS. THE CIVIL ENGINEER SHALL BE PRESENT WHEN THE FINAL INSPECTION IS MADE.
9. THE SOILS ENGINEER MUST APPROVE ALL SOIL COMPACTION INCLUDING THE STABILITY OF ALL SLOPES, BOTH THOSE THAT ARE CREATED BY AND THOSE REMAINING AFTER GRADING OPERATIONS.
10. COMPACTION TESTS SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE SOILS ENGINEER.
11. FILL MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE SOILS ENGINEER.
12. ALL FILL SHALL CONFORM TO THE REQUIREMENTS FOR "ENGINEERED FILL" AS DESCRIBED IN THE SOILS REPORT.
13. ALL GRADING SHALL CONFORM TO APPENDIX J OF THE 2019 CALIFORNIA BUILDING CODE AND STANDARDS PERTAINING THERETO.
14. CLAD-CONSULTING, INC. SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED IN WRITING BY CLAD-CONSULTING.
15. IF THE CONTRACTOR IS IN DOUBT AS TO THE MEANING OF ANY PART OF THE PLAN AND SPECIFICATIONS OR FINDS DISCREPANCIES IN OR OMISSIONS FROM THE DRAWING OR SPECIFICATIONS, THEY SHALL SUBMIT A WRITTEN REQUEST FOR AN INTERPRETATION OR A CORRECTION THEREOF, PRIOR TO FILING THEIR BID FOR THE PROJECT.
16. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT A DUST NUISANCE FROM ORIGINATING FROM THE SITE OF WORK AS A RESULT OF THEIR OPERATIONS DURING THE EFFECTIVE PERIOD OF THIS CONTRACT. PREVENTATIVE MEASURES TO BE TAKEN BY THE CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

    a. WATER SHALL BE APPLIED TO ALL UNPAVED AREAS AS REQUIRED TO PREVENT THE SURFACES FROM BECOMING DRY ENOUGH TO PERMIT DUST FORMATION.

    b. PAVED SURFACES OVER WHICH VEHICULAR TRAFFIC IS PERMITTED TO TRAVEL SHALL BE KEPT FREE OF DIRT.
17. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE LUCIA MAR UNIFIED SCHOOL DISTRICT STANDARD AND SPECIFICATIONS.
18. INSTALL EROSION AND DRAINAGE CONTROL FEATURES TO PREVENT SEDIMENT FROM LEAVING THE SITE. EROSION CONTROL DEVICES SHALL BE INSTALLED AND IN PLACE FOLLOWING DAILY CONSTRUCTION ACTIVITIES. THE APPLICANT SHALL NOTIFY THE ENGINEERING DIVISION OF ANY CHANGES IN CONSTRUCTION WHICH WILL REQUIRE ADDITIONAL EROSION CONTROL MEASURES OR OTHER CHANGES TO THE EROSION CONTROL PLAN.
19. WASTE MATERIALS SHALL NOT BE WASHED INTO SCHOOL STORM DRAIN SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO SOIL, PAINT, STUCCO, GROUT, COLOR COAT, CONCRETE DUST, SAW RESIDUES, GRINDINGS, OIL, ETC.
20. ALL GRADING AND CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS AND REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY EARTH SYSTEMS, FILE NO. 301260-005 DATED MAY 6, 2025 AND LUCIA MAR UNIFIED SCHOOL DISTRICT STANDARDS
21. CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND OR P.O.C/P.O.D.'S FOR ALL UTILITIES I.E. POTHOLE EACH SIDE. FIELD VERIFY DEPTHS THROUGHOUT FOR ALL EXISTING UTILITIES. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF AN ERROR ON HIS OR HER PART OF HIS OR HER NEGLIGENCE OF FAILURE TO ACQUAINT HIMSELF OR HERSELF WITH THE CONDITIONS OF THE SITE, EXISTING UTILITY LOCATIONS AND EASEMENTS, OR OF THE STREET OR ROADS APPROACHING THE SITE.

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DRAWING INDEX

SHEET NUMBER	SHEET DESCRIPTION
C1	TITLE SHEET
C2	DEMOLITION PLAN
C3	DEMOLITION PLAN
C4	GRADING PLAN
C5	GRADING PLAN
C6	HORIZONTAL CONTROL PLAN
C7	HORIZONTAL CONTROL PLAN
C8	UTILITY PLAN
C9	UTILITY PLAN
C10	EROSION CONTROL PLAN
C11	DETAIL SHEET

SCOPE OF WORK

GRADING AND DRAINAGE PLAN FOR TWO NEW CLASSROOM BUILDINGS ALONG WITH SUPPORTING UTILITIES.

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED UPON THE WORLD GEODETIC SYSTEM OF 1984 (WGS84) REFERENCE FRAME, CONSTRAINED TO THE CALIFORNIA STATE COORDINATE SYSTEM, ZONE 5, NGS MONUMENT DESIGNATED M 529, SAN LUIS OBISPO COUNTY, CALIFORNIA, AS DETERMINED FROM GPS OBSERVATIONS OBTAINED IN JUNE 2024, HAVING COORDINATES N:2193791.27 E:5832369.17.

PROJECT BENCHMARK

THE BENCHMARK FOR THIS SURVEY IS A BRASS DISC IN CONCRETE ABUTMENT LOCATED AT THE NORTH-EAST CORNER OF THE HWY. 166 AND HUTTON ROAD INTERSECTION, DESIGNATED M529, EPOCH DATE 1991.35, SAN LUIS OBISPO COUNTY, CALIFORNIA, HAVING A NAVD 88 PUBLISHED ELEVATION OF 215.1'.

EROSION CONTROL STANDARD NOTES:

1. EROSION CONTROL MEASURES SHALL BE FULLY INSTALLED AT ALL TIMES
2. PROTECT ALL SITE ACCESSES AGAINST EROSION AT ALL TIMES THAT WORK IS NOT BEING PERFORMED ON THE SITE, INCLUDING EVENINGS, WEEKENDS AND HOLIDAYS. SUCH PROTECTION MAY BE REMOVED TO PROVIDE ACCESS TO THE SITE DURING WORK HOURS IF AND WHEN IT IS NOT REQUIRED DUE TO WEATHER CONDITIONS.
3. THE FIRST DOWNSTREAM STORM DRAIN INLET SHALL BE PROTECTED PER DETAIL.
4. ALL STOCKPILES SHALL BE PROTECTED AGAINST WIND AND WATER EROSION, PER DETAIL, IMMEDIATELY UPON PLACEMENT.
5. PERMANENT EROSION CONTROL MEASURES SHALL BE FULLY ESTABLISHED TO THE SATISFACTION OF THE CITY ENGINEER BEFORE FINAL.
6. IN THE EVENT OF OFF-SITE EROSION, THE PROPERTY OWNER AND/OR HIS REPRESENTATIVE(S) SHALL BE RESPONSIBLE CLEANUP AND ALL ASSOCIATED COSTS OR DAMAGES.
7. EROSION CONTROL PLANS REPRESENT THE MINIMUM ACCEPTABLE PROTECTION. FURTHER MEASURES WILL BE REQUIRED TO THE SATISFACTION OF THE CITY ENGINEER IN THE EVENT OF INADEQUACY OR FAILURE.

STORMWATER POST CONSTRUCTION STANDARD NOTES:

1. POST-CONSTRUCTION REQUIREMENTS SHALL BE MET TO THE SATISFACTION OF THE CITY ENGINEER BEFORE FINAL.
2. THE CITY OR A THIRD PARTY SHALL REQUEST THE INSTALLATION OF STRUCTURAL CONTROL MEASURES (APPLICABLE TO PROJECT SUBJECT TO POST-CONSTRUCTION REQUIREMENTS 2-5). IT IS THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY AND THIRD PARTY INSPECTOR DURING INSTALLATION. A REPORT SHALL BE PROVIDED TO THE CITY OF PROPER INSTALLATION INCLUDING PICTURES.

UNDERGROUND UTILITY STATEMENT

CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND OR P.O.C/P.O.D.'S FOR ALL UTILITIES I.E. POTHOLE EACH SIDE. FIELD VERIFY DEPTHS THROUGHOUT FOR ALL EXISTING UTILITIES. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF AN ERROR ON HIS OR HER PART OF HIS OR HER NEGLIGENCE OF FAILURE TO ACQUAINT HIMSELF OR HERSELF WITH THE CONDITIONS OF THE SITE, EXISTING UTILITY LOCATIONS AND EASEMENTS, OR OF THE STREET OR ROADS APPROACHING THE SITE'

REGISTERED PROFESSIONAL ENGINEER
DAVID W. CHANLEY
NO 70849
CIVIL
STATE OF CALIFORNIA

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF RECORD FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE. THESE PLANS AND SPECIFICATIONS, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH CURRENT STANDARDS.

ANY ERRORS, OMISSIONS, OR OTHER VIOLATIONS OF THOSE ORDINANCES, STANDARDS OR DESIGN CRITERIA ENCOUNTERED DURING CONSTRUCTION SHALL BE CORRECTED AND SUCH CORRECTIONS REFLECTED ON CORRECTED PLANS.

DAVID W. CHANLEY R.C.E. 70849

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
DAVID W. CHANLEY
NO 70849
CIVIL
STATE OF CALIFORNIA

CLAD

TITLE SHEET

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
1	FINNEY ARCH COMMENTS	08/04/25

DRAWN BY: EP
CHECKED BY: AG, DC
PROJECT NO: 24075
DATE: DSA V3 SUBMITTAL: 05/28/2026

C1

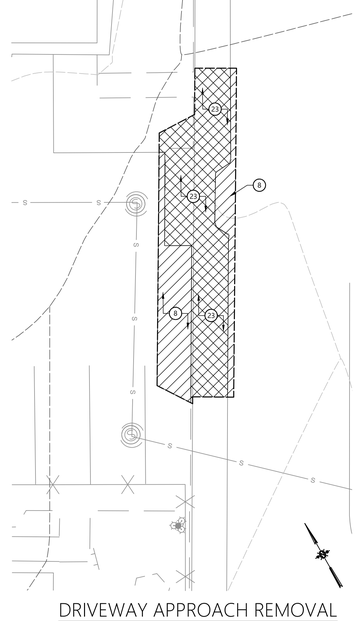


DEMOLITION NOTES

1. PROTECT IN PLACE EXISTING WATER VALVES
2. REMOVE PLAYGROUND EQUIPMENT, CURB, AND SURFACING
3. REMOVE ABANDONED CONCRETE FILLED UNDERGROUND SEPTIC TANK, AND ALL ASSOCIATED PIPES.
4. REMOVE ABANDONED SEPTIC LEACH LINES
5. PROTECT IN PLACE FENCE
6. REMOVE IRRIGATION LINE
7. PROTECT IN PLACE EXISTING SEWER MANHOLE
8. REMOVE ASPHALT
9. REMOVE AND SALVAGE IN GROUND BASKETBALL HOOP
10. PROTECT IN PLACE EXISTING FIRE HYDRANT
11. PROTECT IN PLACE IRRIGATION LINE
12. DEMOLISH CONCRETE LANDING
13. PROTECT IN PLACE EXISTING A/C ENCLOSURE
14. CLEAR AND GRUB AND PREPARE FOR GRADING AND NEW IMPROVEMENTS
15. PROTECT IN PLACE EXISTING DECOMPOSED GRANITE
16. EXISTING UNDERGROUND SEPTIC TANK TO REMAIN
17. PROTECT IN PLACE SEWER CLEANOUT
18. DEMOLISH FENCE POST TO POST
19. PROTECT IN PLACE EXISTING STRIPING.
20. PROTECT IN PLACE EXISTING BALL WALL.
21. PROTECT IN PLACE EXISTING BASKETBALL POLE
22. GENERAL CONTRACTOR RELOCATE (3) SHIPPING CONTAINERS AND (2) TUFF SHEDS ON SITE PER DISTRICT DIRECTION. SEE A0.2 FOR LOCATION.
23. REMOVE CONCRETE CURB AND SIDEWALK

LEGEND

- REMOVE ASPHALT
- CLEAR AND GRUB, PREPARE FOR GRADING AND NEW IMPROVEMENTS
- REMOVE CONCRETE



DRIVEWAY APPROACH REMOVAL
SCALE: 1"=10'

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

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APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
DAVID W. CHANLEY
NO. 70849
CIVIL
STATE OF CALIFORNIA

CLAD

DEMOLITION PLAN

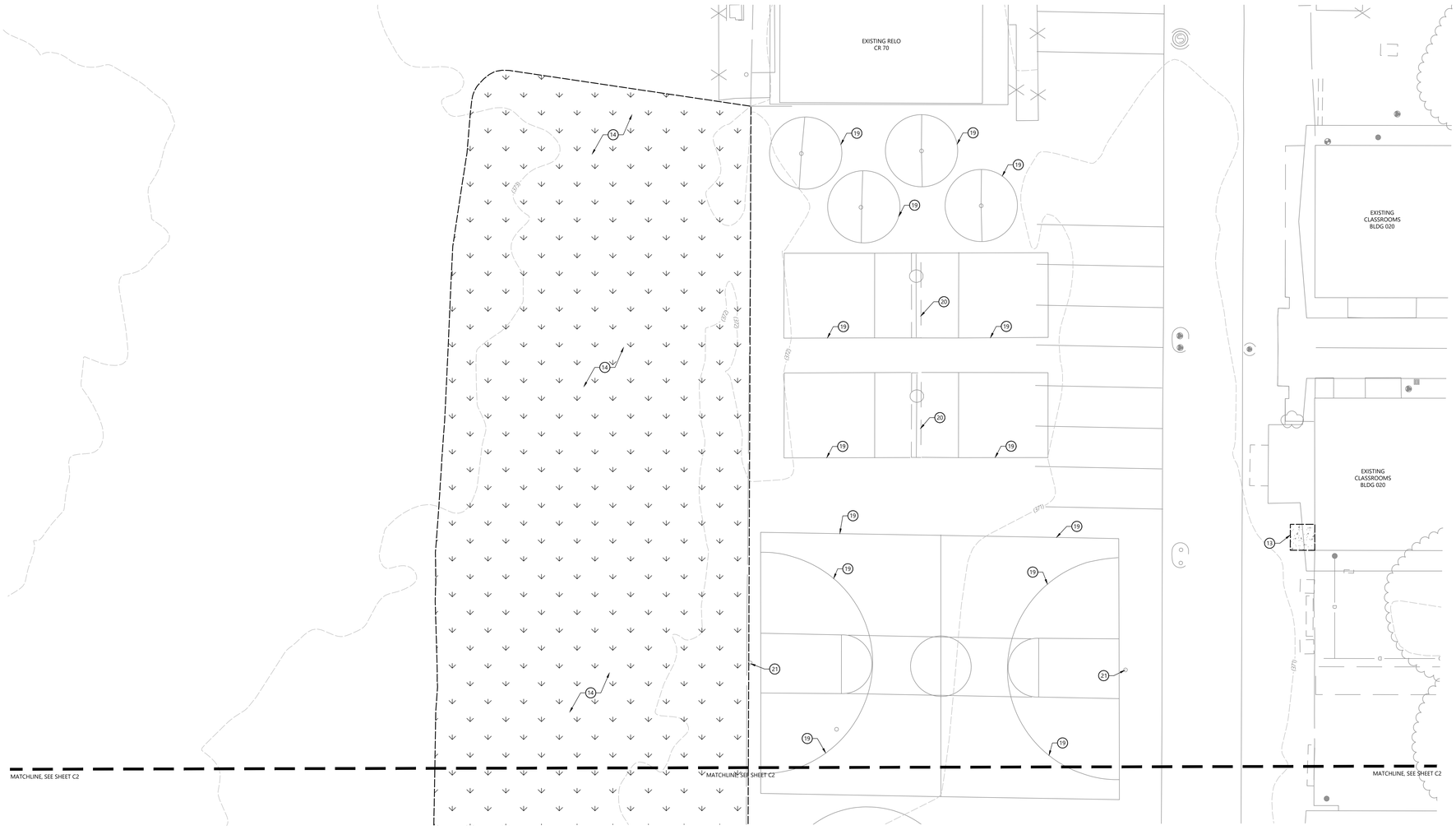
NEW CLASSROOMS AT
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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
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DRAWN BY:	EP
CHECKED BY:	AG, DC
PROJECT NO:	DATE:
24075	DSA V3 SUBMITTAL: 05/28/2026

C2

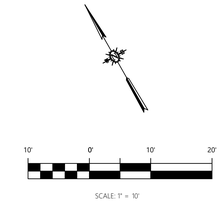


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17. PROTECT IN PLACE SEWER CLEANOUT
18. DEMOLISH FENCE
19. PROTECT IN PLACE EXISTING STRIPING.
20. PROTECT IN PLACE EXISTING BALL WALL.
21. PROTECT IN PLACE EXISTING BASKETBALL POLE
22. GENERAL CONTRACTOR RELOCATE (3) SHIPPING CONTAINERS AND (2) TUFF SHEDS ON SITE PER DISTRICT DIRECTION. SEE A0.2 FOR LOCATION.
23. REMOVE CONCRETE CURB AND SIDEWALK

LEGEND

- REMOVE ASPHALT
- CLEAR AND GRUB, PREPARE FOR GRADING AND NEW IMPROVEMENTS
- REMOVE CONCRETE



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
DAVID W. CHANLEY
NO. 70849
CIVIL
STATE OF CALIFORNIA

CLAD

DEMOLITION PLAN

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

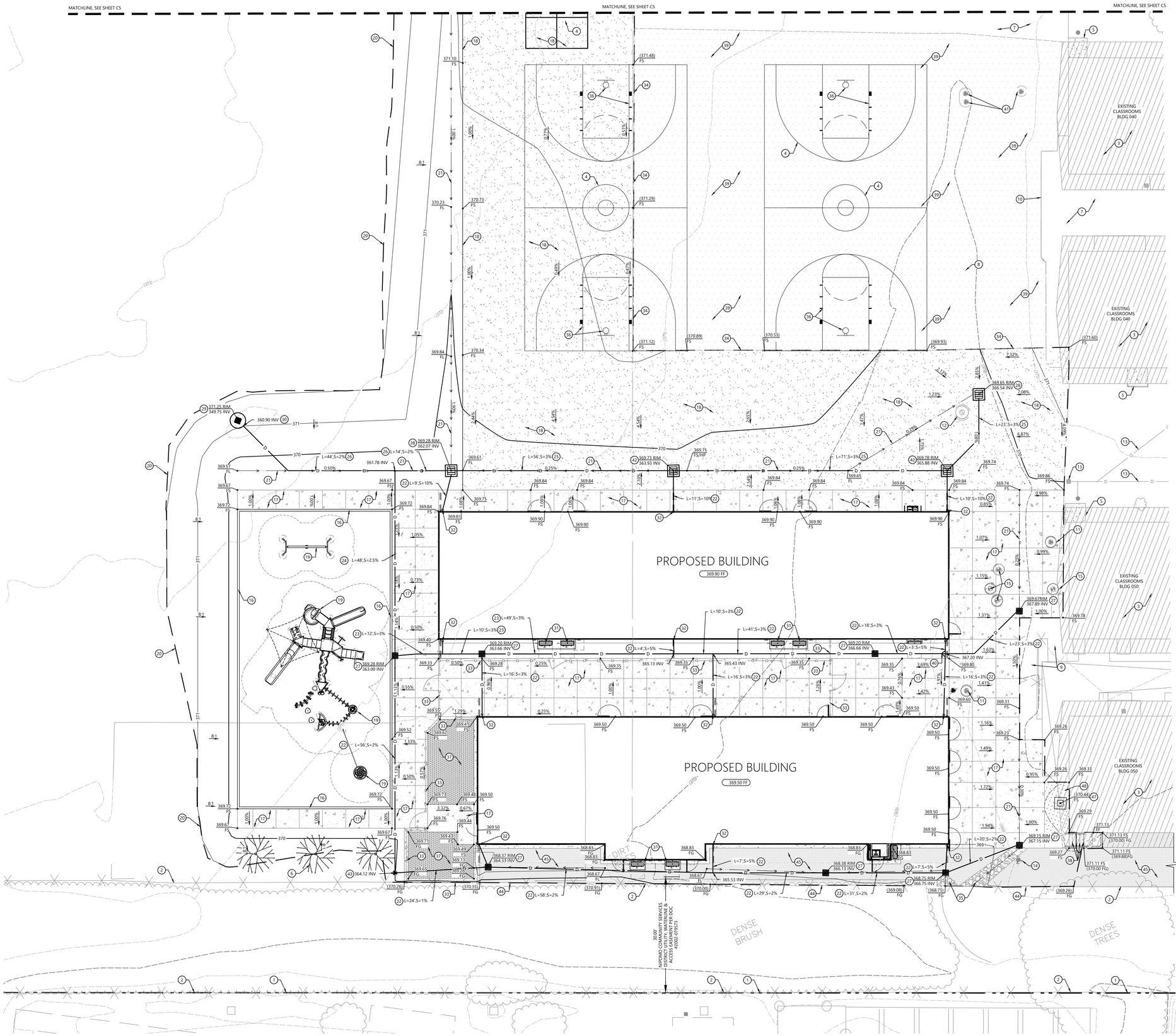
REVISIONS

NO.	ITEM	DATE
1	FINNEY ARCH COMMENTS	08/04/25

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CHECKED BY: AG, DC
PROJECT NO: DATE:
24075 DSA V3 SUBMITTAL: 05/28/2026

C3

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CONSTRUCTION NOTES

1. EXISTING PROPERTY LINE
2. EXISTING FENCE TO REMAIN
3. EXISTING BUILDING TO REMAIN
4. SEE ARCHITECTURAL PLANS FOR PAVEMENT STRIPING
5. EXISTING AC UNIT TO REMAIN
6. PROPOSED TREES TO BE INSTALLED BY DISTRICT, TYPICAL
7. EXISTING ASPHALT TO REMAIN
8. EXISTING ASPHALT GRADE BREAK LINE TO REMAIN
9. EXISTING CONCRETE TO REMAIN
10. EDGE OF EXISTING ASPHALT
11. EXISTING SEWER CLEANOUT TO REMAIN, ADJUST LID TO NEW GRADE.
12. EXISTING SEWER MANHOLE TO REMAIN, ADJUST LID TO NEW GRADE.
13. EXISTING STORM DRAIN TO REMAIN
14. EXISTING FIRE HYDRANT TO REMAIN
15. EXISTING WATER VALVE TO REMAIN, LID TO BE ADJUSTED TO PROPOSED GRADE
16. PROPOSED PLAYGROUND PERIMETER CURB PER ARCHITECTURAL PLANS
17. PROPOSED CONCRETE FLATWORK, SEE ARCHITECTURAL DETAILS.
18. PROPOSED ASPHALT CONCRETE, 3" THICK OVER 4" OF AGGREGATE BASE COMPACTED TO 95%, TOP 12" OF SUBGRADE TO BE COMPACTED TO MIN. 95% PER SOILS REPORT RECOMMENDATIONS. ALL EDGES NOT ADJACENT TO CONCRETE TO HAVE WOOD HEADER PER ARCHITECTURAL PLANS.
19. PROPOSED PLAYGROUND EQUIPMENT BY OTHERS
20. PROPOSED LIMITS OF GRADING
21. PROPOSED FLOWLINE
22. PROPOSED 4" PVC STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
23. PROPOSED 6" PVC STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
24. PROPOSED 8" HDPE STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
25. PROPOSED 12" HDPE STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
26. PROPOSED 18" HDPE STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
27. PROPOSED 12"x12" MIDSTATE CONCRETE CATCH BASIN OR APPROVED EQUAL, ON SHEET C11. USE GRATE DESIGNED TO RESIST ENTRY OF HIGH HEELED SHOES.
28. PROPOSED 24"x24" MIDSTATE CONCRETE CATCH BASIN OR APPROVED EQUAL, ON SHEET C11. USE GRATE DESIGNED TO RESIST ENTRY OF HIGH HEELED SHOES.
29. PROPOSED 48" CONCRETE DRYWELL. INSTALL DRYWELL BASE (5FT) , AND TWO DRYWELL RISERS (10FT) ALONG WITH CONCENTRIC CONE (3FT) WITH RISERS AND FRAME AND COVER TO MEET GRADE. RIM AND INVERT PER PLAN. SEE DRYWELL DETAILS ON SHEET C5.
30. PROPOSED 18" HDPE STORM DRAIN PIPE TO BE CORED INTO CONCRETE DRYWELL.
31. PROPOSED HVAC EQUIPMENT, SEE ARCHITECTURAL SITE PLAN AND MECHANICAL PLANS.
32. INSTALL DOWNSPOUT CONNECTION TO STORM DRAIN PER DETAIL 1 ON SHEET C11.
33. PROPOSED FENCING PER ARCHITECTURAL PLANS
34. EDGE OF PROPOSED ASPHALT TO TRANSITION INTO EXISTING ASPHALT PER TRANSITION DETAIL SHOWN ON COUNTY DETAIL R-2 FOR ASPHALT WIDENING. SEE DETAIL R-2 ON SHEET C11.
35. PROPOSED 4'-6" COBBLE TO SERVE AS CATCH BASIN OVER FLOW UP TO IN THE EVENT THAT UNDERGROUND CHAMBER SYSTEM CAPACITY ARE AT CAPACITY. SEE DETAIL 3 ON SHEET C11.
36. PROPOSED BASKETBALL COURT PER ARCHITECTURAL PLANS.
37. PROPOSED SYNTHETIC TURF PER ARCHITECTURAL PLANS
38. PROPOSED FOUR 5.5" STEPS, SEE DETAIL 4 SHEET C11.
39. ASPHALT SLURRY SEAL COAT PER SECTION 37 OF THE CALTRANS SPECIFICATIONS.
40. INSTALL HDPE REDUCING WYE.
41. EXISTING SEWER CLEANOUT TO REMAIN
42. PROPOSED 18"X18" MIDSTATE CONCRETE CATCH BASIN OR APPROVED EQUAL, ON SHEET C11. USE GRATE DESIGNED TO RESIST ENTRY OF HIGH HEELED SHOES.
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44. PROPOSED REDWOOD HEADERBOARD ALONG FENCE PER ARCHITECTURAL PLANS.
45. PROPOSED DECOMPOSED GRANITE PER ARCHITECTURAL PLANS.
46. CONSTRUCT COMMERCIAL DRIVEWAY PER COUNTY OF SAN LUIS OBISPO STANDARD DETAIL B-3A, SEE SHEET C11.
47. EXISTING IRRIGATION CONTROLLER ON CONCRETE PAD TO REMAIN.
48. EXISTING PLANTING AREA

LEGEND

- PROPOSED ASPHALT CONCRETE
- PROPOSED CONCRETE
- PROPOSED SYNTHETIC TURF
- PROPOSED ASPHALT SLURRY SEAL COAT
- EXISTING BUILDINGS
- DECOMPOSED GRANITE

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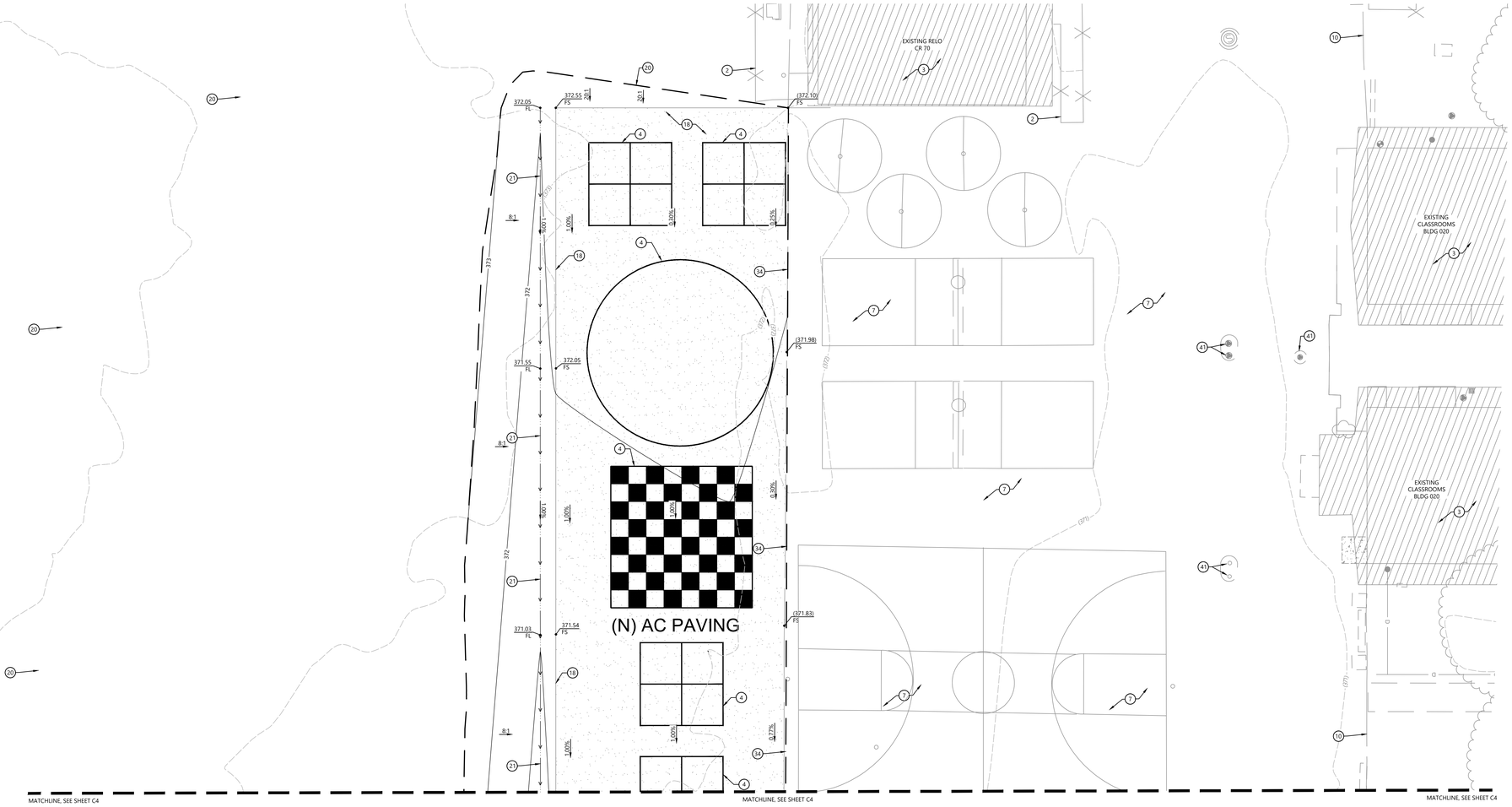
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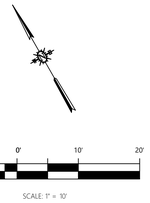
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C4



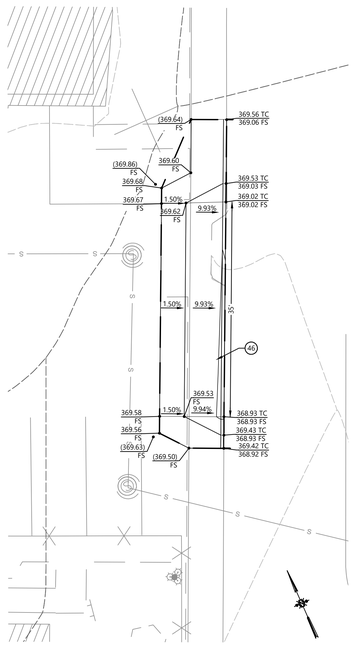


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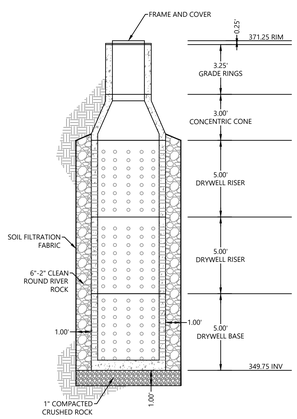
LEGEND

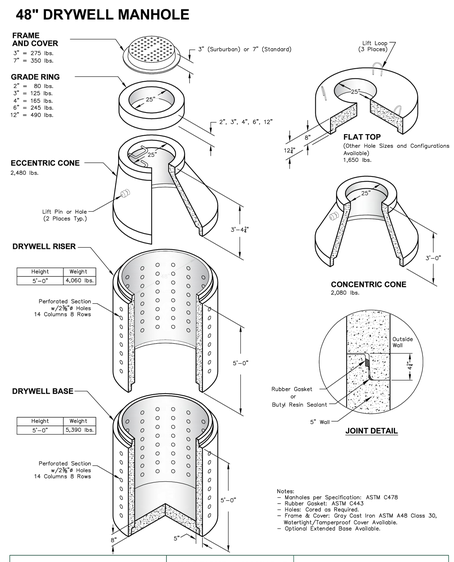
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- PROPOSED SYNTHETIC TURF
- PROPOSED ASPHALT SLURRY SEAL COAT
- EXISTING BUILDINGS
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DRIVEWAY APPROACH REPLACEMENT

SCALE: 1"=10'





2.0

48" CONCRETE DRYWELL DETAILS

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CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
DAVID W. CHANLEY
NO 70849
CIVIL
STATE OF CALIFORNIA

CLARK

GRADING PLAN

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

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1	FINNEY ARCH COMMENTS	08/04/25

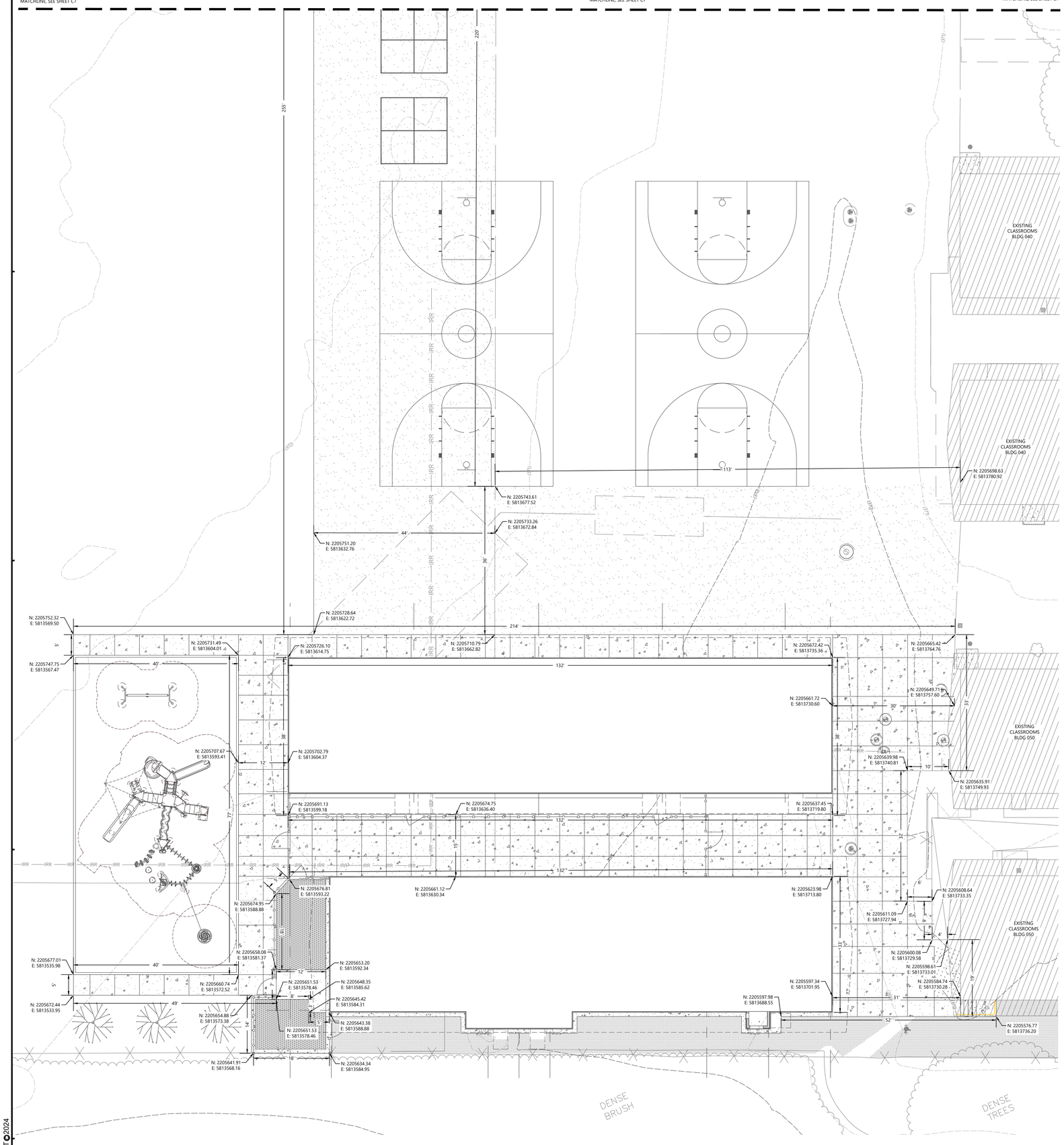
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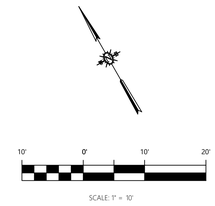
C5

MATCHLINE, SEE SHEET C7

MATCHLINE, SEE SHEET C7

MATCHLINE, SEE SHEET C7





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STATE OF CALIFORNIA

CLAD

HORIZONTAL CONTROL PLAN

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

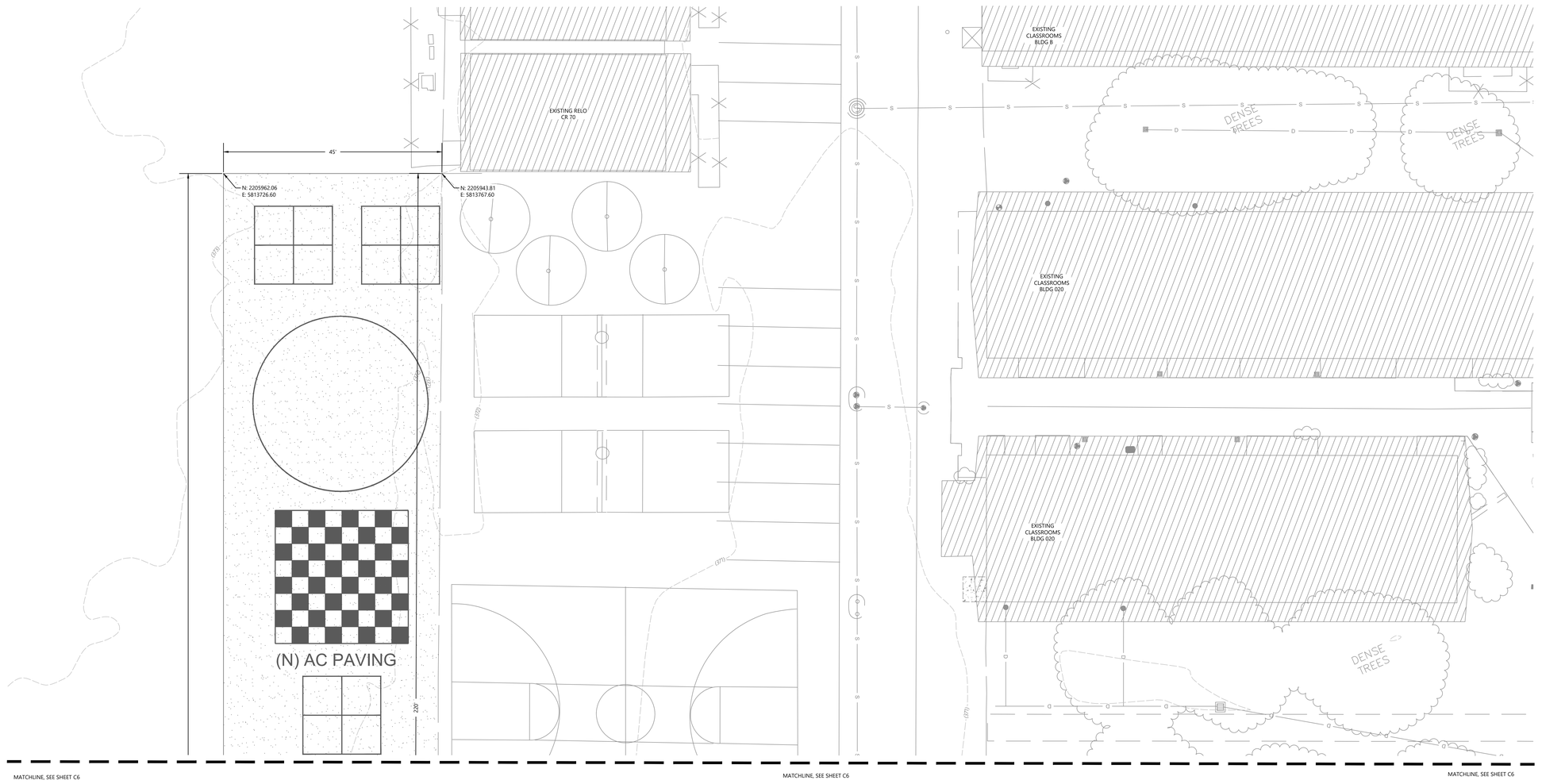
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10' 0' 10' 20'

SCALE: 1" = 10'

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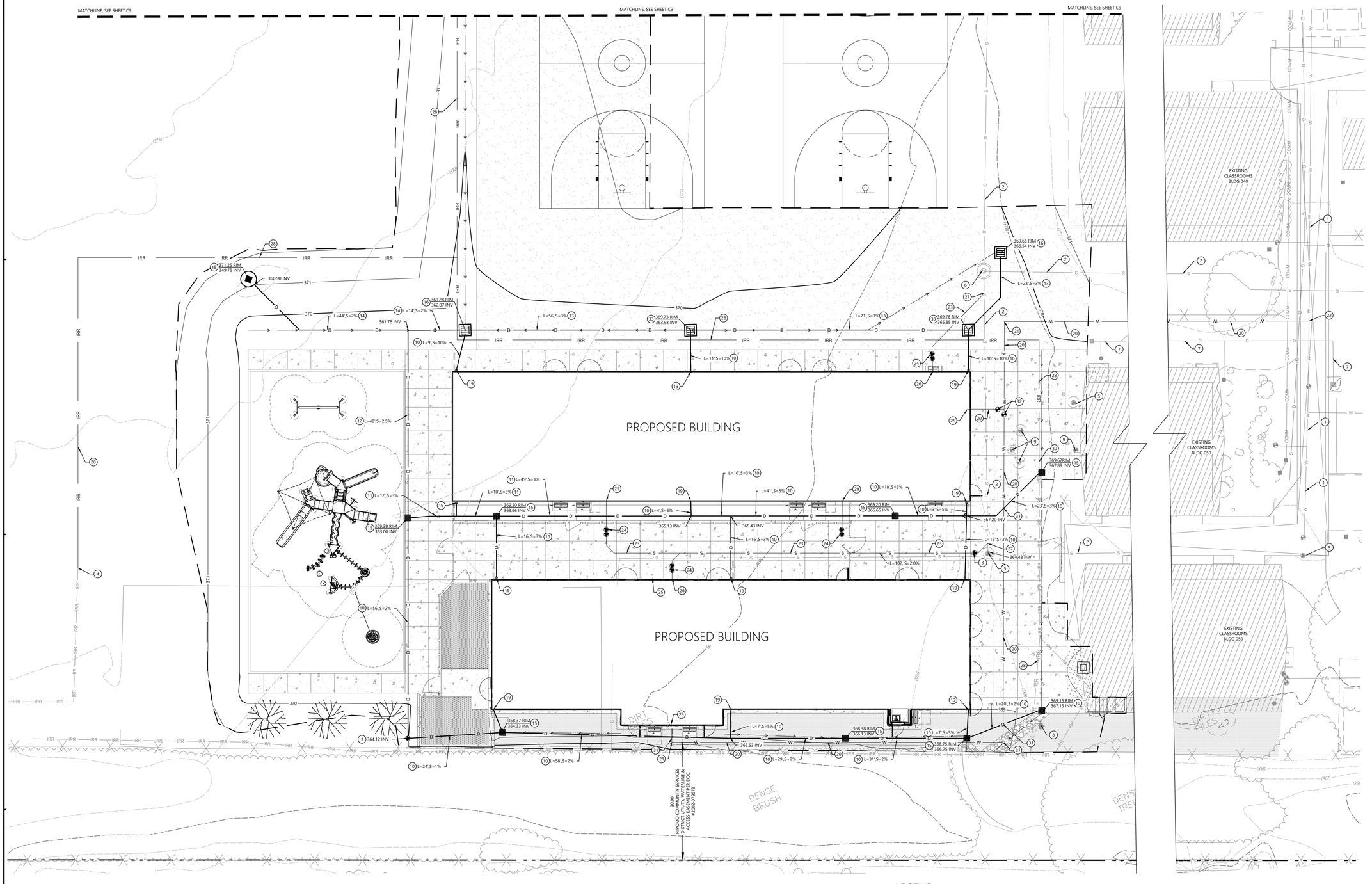
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CONSTRUCTION NOTES

1. EXISTING 4" C900 PVC WATERLINE TO REMAIN
2. EXISTING 6" PVC SS TO REMAIN
3. INSTALL ONE-WAY SEWER CLEAN OUT . INSTALLATION OF CLEANOUT TO BE PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL S-8 ON SHEET C11. INSTALL CONCRETE COLLARS ON ALL CLEANOUTS.
4. CONTRACTOR TO VERIFY LOCATION OF EXISTING IRRIGATION LINE FOR NEW TIE-IN.
5. EXISTING SEWER CLEANOUT TO REMAIN, LID TO BE ADJUSTED TO PROPOSED GRADE
6. EXISTING SEWER MANHOLE TO REMAIN, RIM ELEVATION TO BE ADJUSTED TO PROPOSED GRADE.
7. EXISTING STORM DRAIN TO REMAIN
8. EXISTING FIRE HYDRANT TO REMAIN
9. EXISTING WATER VALVE TO REMAIN, LID TO BE ADJUSTED TO PROPOSED GRADE
10. PROPOSED 4" PVC STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
11. PROPOSED 6" PVC STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
12. PROPOSED 8" HDPE STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
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16. PROPOSED 24"x24" MIDSTATE CONCRETE CATCH BASIN OR APPROVED EQUAL, ON SHEET C11. USE GRATE DESIGNED TO RESIST ENTRY OF HIGH HEELED SHOES.
17. PROPOSED 48" MIDSTATE CONCRETE STORM WATER MANHOLE OR APPROVED EQUAL,ON SHEET C11.
18. PROPOSED 48" CONCRETE DRYWELL. INSTALL DRYWELL BASE (5FT) , AND TWO DRYWELL RISERS (10FT) ALONG WITH CONCENTRIC CONE (3FT) WITH RISERS AND FRAME AND COVER TO MEET GRADE. RIM AND INVERT PER PLAN. SEE DRYWELL DETAILS ON SHEET C5.
19. INSTALL DOWNSPOUT CONNECTION TO STORM DRAIN PER DETAIL 1 ON SHEET C11.
20. INSTALL 2" SCH 80 PVC DOMESTIC WATERLINE. SEE NIPOMO COMMUNITY SERVICE DISTRICT DETAIL W-2 FOR WATER PIPE BEDDING AND TRENCH BACKFILL DETAIL ON SHEET C11.
21. PROPOSED TRUST BLOCK FOR WATERLINE INSTALLATION PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL W-4 FOR TYPICAL TRUST BLOCK DETAILS ON SHEET C11.
22. PROPOSED WATERLINE TIE IN TO EXISTING 4" C900 PVC WATERLINE MAIN PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL W-9 ON SHEET C11.
23. INSTALL 4" SDR 35 SANITAY SEWER. SEE NIPOMO COMMUNITY SERVICE DISTRICT DETAIL S-2 FOR SEWER PIPE BEDDING AND TRENCH BACKFILL DETAIL ON SHEET C11.
24. INSTALL TWO-WAY SEWER CLEAN OUT . INSTALLATION OF CLEANOUT TO BE PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL S-8 AND DETAIL 2 ON SHEET C11. INSTALL CONCRETE COLLARS ON ALL CLEANOUTS.
25. PROPOSED WATERLINE POINT OF CONNECTION AT PROPOSED BUILDING, SEE PLUMBING PLAN FOR ADDITIONAL INFORMATION.
26. PROPOSED SANITARY SEWER POINT OF CONNECTION AT PROPOSED BUILDING, SEE PLUMBING PLAN FOR ADDITIONAL INFORMATION.
27. SANITARY SEWER TO TIE INTO EXISTING SEWER MAIN PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL S-6 FOR TYPICAL SEWER LATERAL ON SHEET C11.
28. NEW IRRIGATION MAINLINE BY OWNER. CONTRACTOR SHALL TRENCH AND BACKFILL ONLY PER DETAIL W-2, SEE SHEET C11.
29. INSTALL 2" SDR 35 SANITAY SEWER. SEE NIPOMO COMMUNITY SERVICE DISTRICT DETAIL S-2 FOR SEWER PIPE BEDDING AND TRENCH BACKFILL DETAIL ON SHEET C11.
30. NEW IRRIGATION MAINLINE TO TIE INTO EXISTING BY OWNER. CONTRACTOR SHALL TRENCH AND BACKFILL ONLY PER DETAIL W-2, SEE SHEET C11.
31. WATER LINE CROSSING UNDER PROPOSED STORM DRAIN WITH 1' MIN. SEPARATION.
32. INSTALL WATERLINE VALVE WITH VALVE ASSEMBLY PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL W-3, SEE SHEET C11.
33. PROPOSED 18"X18" MIDSTATE CONCRETE CATCH BASIN OR APPROVED EQUAL, ON SHEET C11. USE GRATE DESIGNED TO RESIST ENTRY OF HIGH HEELED SHOES.

NOTE: EXISTING UTILITIES HAVE SHOWN PER TOPOGRAPHIC SURVEY AND AS-BUILT INFORMATION. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL EXISTING UTILITIES BEFORE INSTALLATION OF PROPOSED UTILITIES.

NOTE: ALL EXISTING UTILITY BOXES, LIDS, OR GRATES WITHIN THE AREA OF NEW IMPROVEMENTS SHALL BE ADJUSTED TO NEW GRADES. REGARDLESS IF SHOWN GRAPHICALLY OR NOT.

LEGEND

- EXISTING SEWER MANHOLE
- FIRE HYDRANT
- EXISTING SEWER CLEANOUT
- ONE-WAY SEWER CLEANOUT
- TWO-WAY SEWER CLEANOUT
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- PROPOSED STORM DRAIN CATCH BASIN
- D — STORM DRAIN (SIZE PER PLAN)
- SS — SANITARY SEWER (SIZE PER PLAN)
- W — WATER LINE (SIZE PER PLAN)
- G — GAS LINE
- E — ELECTRICAL
- IRR — IRRIGATION LINE

- PROPOSED ASPHALT CONCRETE
- PROPOSED CONCRETE
- PROPOSED SYNTHETIC TURF
- EXISTING BUILDINGS

10' 0' 10' 20'

SCALE: 1" = 10'

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CLAD

UTILITY PLAN

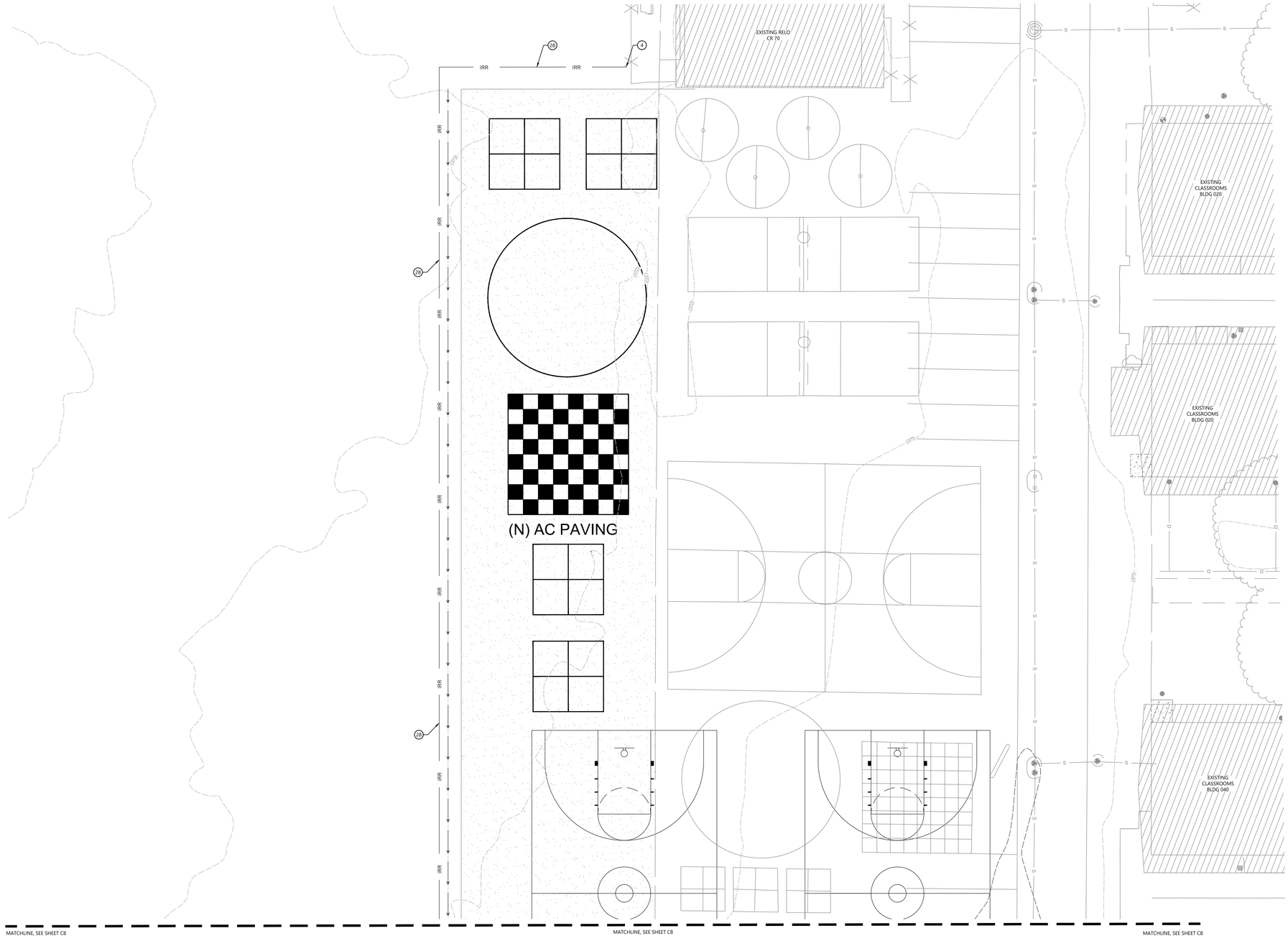
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
1	FINNEY ARCH COMMENTS	08/04/25

DRAWN BY: EP
CHECKED BY: AG, DC
PROJECT NO: 24075
DATE: DSA V3 SUBMITTAL: 05/28/2026

C8



CONSTRUCTION NOTES

1. EXISTING 4" C900 PVC WATERLINE TO REMAIN
2. EXISTING 6" PVC SS TO REMAIN
3. INSTALL ONE-WAY SEWER CLEAN OUT . INSTALLATION OF CLEANOUT TO BE PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL S-8 ON SHEET C11. INSTALL CONCRETE COLLARS ON ALL CLEANOUTS.
4. CONTRACTOR TO VERIFY LOCATION OF EXISTING IRRIGATION LINE FOR NEW TIE-IN.
5. EXISTING SEWER CLEANOUT TO REMAIN, LID TO BE ADJUSTED TO PROPOSED GRADE
6. EXISTING SEWER MANHOLE TO REMAIN, RIM ELEVATION TO BE ADJUSTED TO PROPOSED GRADE.
7. EXISTING STORM DRAIN TO REMAIN
8. EXISTING FIRE HYDRANT TO REMAIN
9. EXISTING WATER VALVE TO REMAIN, LID TO BE ADJUSTED TO PROPOSED GRADE
10. PROPOSED 4" PVC STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
11. PROPOSED 6" PVC STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
12. PROPOSED 8" HDPE STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
13. PROPOSED 12" HDPE STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
14. PROPOSED 18" HDPE STORM DRAIN PIPE, LENGTH AND SLOPE PER PLAN.
15. PROPOSED 12"x12" MIDSTATE CONCRETE CATCH BASIN OR APPROVED EQUAL, ON SHEET C11. USE GRATE DESIGNED TO RESIST ENTRY OF HIGH HEELED SHOES.
16. PROPOSED 24"x24" MIDSTATE CONCRETE CATCH BASIN OR APPROVED EQUAL, ON SHEET C11. USE GRATE DESIGNED TO RESIST ENTRY OF HIGH HEELED SHOES.
17. PROPOSED 48" MIDSTATE CONCRETE STORM WATER MANHOLE OR APPROVED EQUALON SHEET C11.
18. PROPOSED 48" CONCRETE DRYWELL. INSTALL DRYWELL BASE (5FT) , AND TWO DRYWELL RISERS (10FT) ALONG WITH CONCENTRIC CONE (3FT) WITH RISERS AND FRAME AND COVER TO MEET GRADE. RIM AND INVERT PER PLAN. SEE DRYWELL DETAILS ON SHEET C5.
19. INSTALL DOWNSPOUT CONNECTION TO STORM DRAIN PER DETAIL 1 ON SHEET C11.
20. INSTALL 2" SCH 80 PVC DOMESTIC WATERLINE. SEE NIPOMO COMMUNITY SERVICE DISTRICT DETAIL W-2 FOR WATER PIPE BEDDING AND TRENCH BACKFILL DETAIL ON SHEET C11.
21. PROPOSED TRUST BLOCK FOR WATERLINE INSTALLATION PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL W-4 FOR TYPICAL TRUST BLOCK DETAILS ON SHEET C11.
22. PROPOSED WATERLINE TIE IN TO EXISTING 4" C900 PVC WATERLINE MAIN PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL W-9 ON SHEET C11.
23. INSTALL 4" SDR 35 SANITAY SEWER, SEE NIPOMO COMMUNITY SERVICE DISTRICT DETAIL S-2 FOR SEWER PIPE BEDDING AND TRENCH BACKFILL DETAIL ON SHEET C11.
24. INSTALL TWO-WAY SEWER CLEAN OUT . INSTALLATION OF CLEANOUT TO BE PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL S-8 AND DETAIL 2 ON SHEET C11. INSTALL CONCRETE COLLARS ON ALL CLEANOUTS.
25. PROPOSED WATERLINE POINT OF CONNECTION AT PROPOSED BUILDING, SEE PLUMBING PLAN FOR ADDITIONAL INFORMATION.
26. PROPOSED SANITARY SEWER POINT OF CONNECTION AT PROPOSED BUILDING, SEE PLUMBING PLAN FOR ADDITIONAL INFORMATION.
27. SANITARY SEWER TO TIE INTO EXISTING SEWER MAIN PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL S-6 FOR TYPICAL SEWER LATERAL ON SHEET C11.
28. NEW IRRIGATION MAINLINE BY OWNER. CONTRACTOR SHALL TRENCH AND BACKFILL ONLY PER DETAIL W-2, SEE SHEET C11.
29. INSTALL 2" SDR 35 SANITAY SEWER. SEE NIPOMO COMMUNITY SERVICE DISTRICT DETAIL S-2 FOR SEWER PIPE BEDDING AND TRENCH BACKFILL DETAIL ON SHEET C11.
30. NEW IRRIGATION MAINLINE TO TIE INTO EXISTING BY OWNER. CONTRACTOR SHALL TRENCH AND BACKFILL ONLY PER DETAIL W-2, SEE SHEET C11.
31. UTILITY CROSSING PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL W-18.
32. INSTALL WATERLINE VALVE WITH VALVE ASSEMBLY PER NIPOMO COMMUNITY SERVICE DISTRICT DETAIL W-3, SEE SHEET C11.
33. PROPOSED 18"X18" MIDSTATE CONCRETE CATCH BASIN OR APPROVED EQUAL, ON SHEET C11. USE GRATE DESIGNED TO RESIST ENTRY OF HIGH HEELED SHOES.

NOTE: EXISTING UTILITIES HAVE SHOWN PER TOPOGRAPHIC SURVEY AND AS-BUILT INFORMATION. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL EXISTING UTILITIES BEFORE INSTALLATION OF PROPOSED UTILITIES.

NOTE: ALL EXISTING UTILITY BOXES, LIDS, OR GRATES WITHIN THE AREA OF NEW IMPROVEMENTS SHALL BE ADJUSTED TO NEW GRADES. REGARDLESS IF SHOWN GRAPHICALLY OR NOT.

LEGEND

- EXISTING SEWER MANHOLE
- FIRE HYDRANT
- EXISTING SEWER CLEANOUT
- ONE-WAY SEWER CLEANOUT
- TWO-WAY SEWER CLEANOUT
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- PROPOSED STORM DRAIN CATCH BASIN
- D — STORM DRAIN (SIZE PER PLAN)
- SS — SANITARY SEWER (SIZE PER PLAN)
- W — WATER LINE (SIZE PER PLAN)
- G — GAS LINE
- E — ELECTRICAL
- IRR — IRRIGATION LINE
- PROPOSED ASPHALT CONCRETE
- PROPOSED CONCRETE
- PROPOSED SYNTHETIC TURF
- EXISTING BUILDINGS

10' 0' 10' 20'

SCALE: 1" = 10'

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE,
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
DAVID W. CHANLEY
NO 70849
CIVIL
STATE OF CALIFORNIA

CLAD

UTILITY PLAN

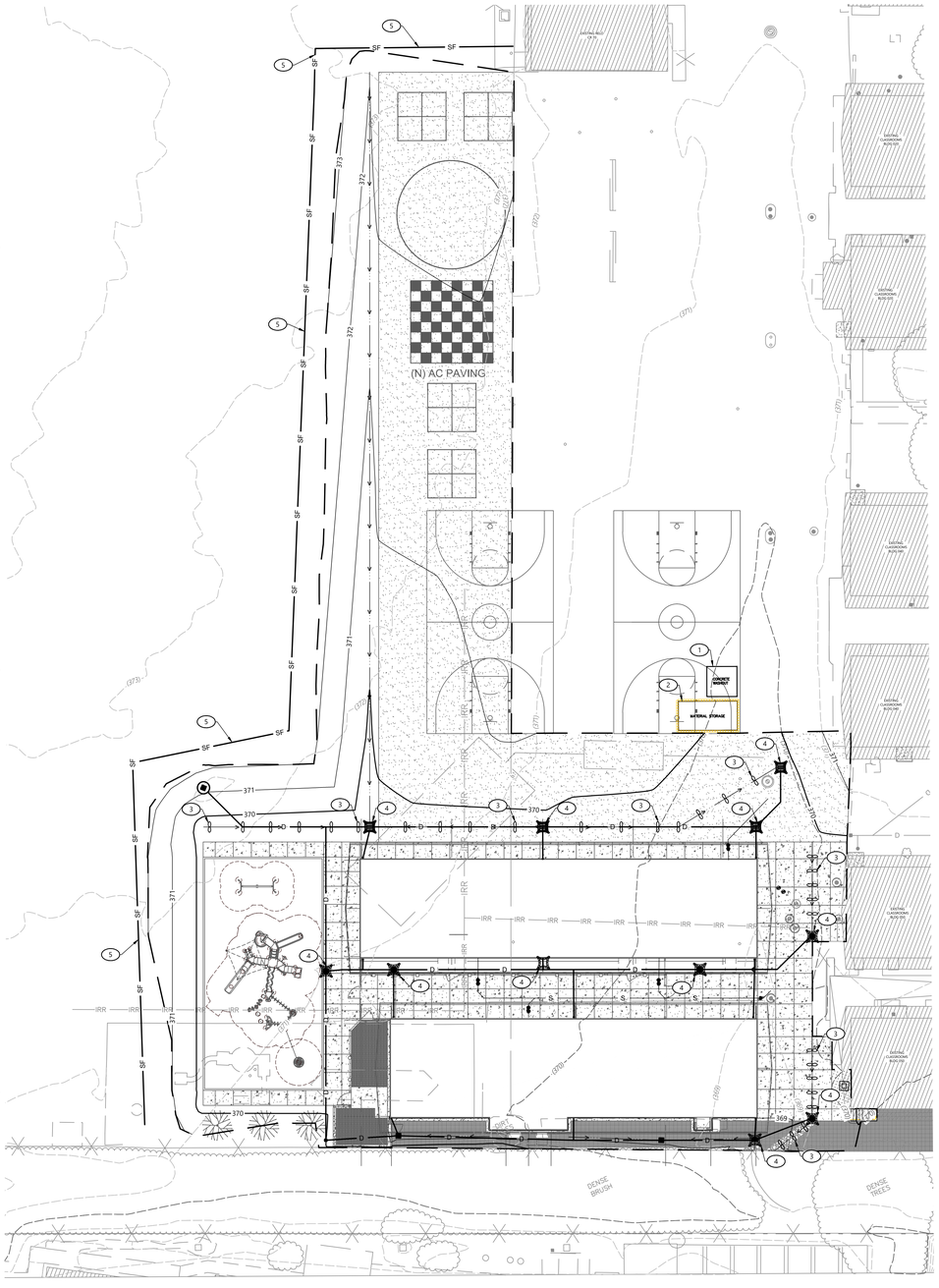
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

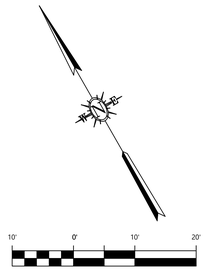
REVISIONS

NO.	ITEM	DATE
1	FINNEY ARCH COMMENTS	08/04/25

DRAWN BY: EP
CHECKED BY: AG, DC
PROJECT NO: DATE:
24075 DSA V3 SUBMITTAL: 05/28/2026

C9



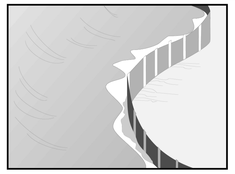


SCALE: 1" = 10'

EROSION CONTROL NOTES

1. INSTALL CONCRETE WASHOUT ONSITE PER CASQA STANDARD DETAIL WM-8, SEE SHEET C10.
2. INSTALL MATERIAL STORAGE AND DELIVERY AREA ONSITE WITH PERIMETER CONTROL PER CASQA STANDARD DETAIL WM-1, SEE SHEET C10.
3. INSTALL CHECK DAMS PER CASQA STANDARD DETAIL SE-4, SEE SHEET C10.
4. INSTALL STORM DRAIN INLET PROTECTION PER CASQA STANDARD DETAIL SE-10, SEE SHEET C10.
5. INSTALL SILT FENCING PER CASQA STANDARD DETAIL SE-1, SEE SHEET C10.

Silt Fence SE-1



Categories

EC	Erosion Control	
SE	Sediment Control	☑
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:
☑ **Primary Category**
☒ **Secondary Category**

Description and Purpose

A silt fence is made of a woven geotextile that has been entrenched, attached to supporting poles, and sometimes backed by a plastic or wire mesh for support. The silt fence detains water, promoting sedimentation of coarse sediment behind the fence. Silt fence does not retain soil fine particles like clays or silts.

Suitable Applications

Silt fences are suitable for perimeter control, placed below areas where sheet flows discharge from the site. They could also be used as interior controls below disturbed areas where runoff may occur in the form of sheet and rill erosion and around inlets within disturbed areas (Storm Drain Inlet Protection, SE-10). Silt fences should not be used in locations where the flow is concentrated. Silt fences should always be used in combination with erosion controls. Suitable applications include:

- At perimeter of a project (although they should not be installed up and down slopes).
- Below the toe or down slope of exposed and erodible slopes.
- Along streams and channels.
- Around temporary spoil areas and stockpiles.
- Around inlets.
- Below other small cleared areas.

Targeted Constituents

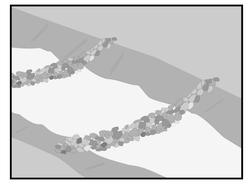
Sediment (coarse sediment)	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

SE-5 Fiber Rolls
SE-6 Gravel Bag Berm SE-12 Manufactured Linear Sediment Controls
SE-13 Compost Socks and Berms
SE-14 Biofilter Bags

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Check Dams SE-4



Categories

EC	Erosion Control	☒
SE	Sediment Control	☑
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:
☑ **Primary Category**
☒ **Secondary Category**

Description and Purpose

A check dam is a small barrier constructed of rock, gravel bags, sandbags, fiber rolls, or other proprietary products, placed across a constructed swale or drainage ditch. Check dams reduce the effective slope of the channel, thereby reducing scour and channel erosion by reducing flow velocity and increasing residence time within the channel, allowing sediment to settle.

Suitable Applications

Check dams may be appropriate in the following situations:

- To promote sedimentation behind the dam.
- To prevent erosion by reducing the velocity of channel flow in small intermittent channels and temporary swales.
- In small open channels that drain 10 acres or less.
- In steep channels where stormwater runoff velocities exceed 5 ft/s.
- During the establishment of grass linings in drainage ditches or channels.
- In temporary ditches where the short length of service does not warrant establishment of erosion-resistant linings.
- To act as a grade control structure.

Targeted Constituents

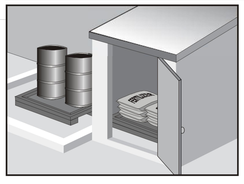
Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

SE-5 Fiber Rolls
SE-6 Gravel Bag Berm
SE-8 Sandbag Barrier
SE-12 Manufactured Linear Sediment Controls
SE-14 Biofilter Bags

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Material Delivery and Storage WM-1



Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	☑

Legend:
☑ **Primary Category**
☒ **Secondary Category**

Description and Purpose

Prevent, reduce, or eliminate the discharge of pollutants from material delivery and storage to the stormwater system or watercourses by minimizing the storage of hazardous materials onsite, storing materials in watertight containers and/or a completely enclosed designated area, installing secondary containment, conducting regular inspections, and training employees and subcontractors.

This best management practice covers only material delivery and storage. For other information on materials, see WM-2, Material Use, or WM-4, Spill Prevention and Control. For information on wastes, see the waste management BMPs in this section.

Suitable Applications

These procedures are suitable for use at all construction sites with delivery and storage of the following materials:

- Soil stabilizers and binders
- Pesticides and herbicides
- Fertilizers
- Detergents
- Plaster
- Petroleum products such as fuel, oil, and grease

Targeted Constituents

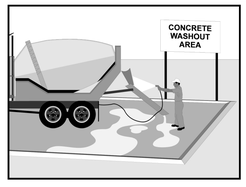
Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	
Oil and Grease	☑
Organics	☑

Potential Alternatives

None

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Concrete Waste Management WM-8



Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	☒
WM	Waste Management and Materials Pollution Control	☑

Legend:
☑ **Primary Category**
☒ **Secondary Category**

Description and Purpose

Prevent the discharge of pollutants to stormwater from concrete waste by conducting washout onsite or offsite in a designated area, and by employee and subcontractor training.

The General Permit incorporates Numeric Action Levels (NAL) for pH (see Section 2 of this handbook to determine your project's risk level and if you are subject to these requirements).

Many types of construction materials, including mortar, concrete, stucco, cement and block and their associated wastes have basic chemical properties that can raise pH levels outside of the permitted range. Additional care should be taken when managing these materials to prevent them from coming into contact with stormwater flows and raising pH to levels outside the accepted range.

Suitable Applications

Concrete waste management procedures and practices are implemented on construction projects where:

- Concrete is used as a construction material or where concrete dust and debris result from demolition activities.
- Slurries containing Portland cement concrete (PCC) are generated, such as from saw cutting, coring, grinding, grooving, and hydro-concrete demolition.
- Concrete trucks and other concrete-coated equipment are washed onsite.

Targeted Constituents

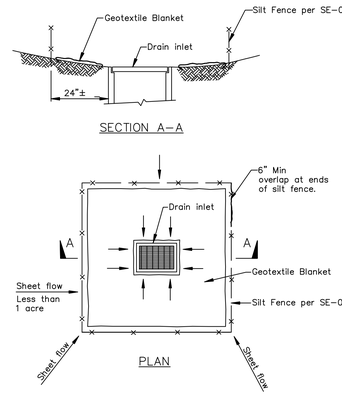
Sediment	☑
Nutrients	
Trash	
Metals	☑
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

None

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Storm Drain Inlet Protection SE-10



DI PROTECTION TYPE 1
NOT TO SCALE

NOTES:

1. For use in areas where grading has been completed and final soil stabilization and seeding are pending.
2. Not applicable in paved areas.
3. Not applicable with concentrated flows.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
DAVID W. CHANLEY
NO 70849
CIVIL
STATE OF CALIFORNIA

CLAD

EROSION CONTROL PLAN

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

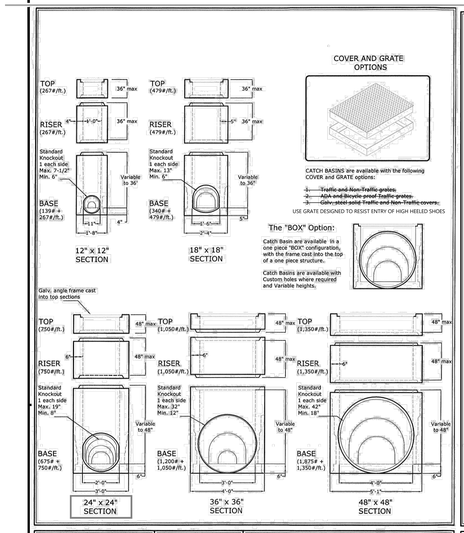
REVISIONS

NO.	ITEM	DATE
1	FINNEY ARCH COMMENTS	08/04/25

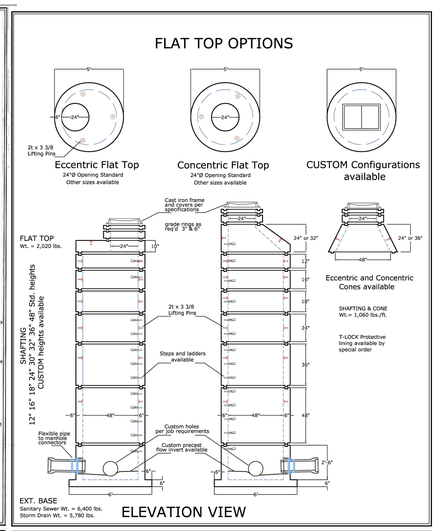
DRAWN BY: EP
CHECKED BY: AG, DC
PROJECT NO: 24075
DATE: DSA V3 SUBMITTAL: 05/28/2026

C10

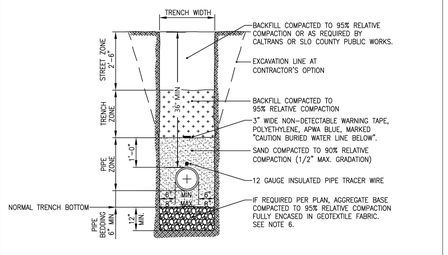
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MID STATE Concrete Products Santa Maria, Ca.	1889 E. DONOVAN RD., STE. G SANTA MARIA, CA. 93454 PH: (805) 928-2444 FAX: (805) 928-2114 www.midstateconcrete.com	SQUARE CATCH BASINS REV. 08/08



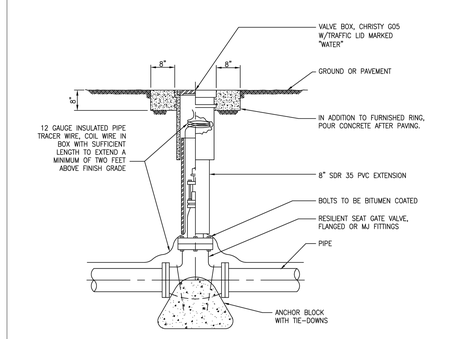
MID STATE Concrete Products Santa Maria, Ca.	1889 E. DONOVAN RD., STE. G SANTA MARIA, CA. 93454 PH: (805) 928-2444 FAX: (805) 928-2114 www.midstateconcrete.com	48" DIAMETER MANHOLE REV. 09/07



NOTES:

1. SAND SHALL BE PER STANDARD SPECIFICATIONS FOR EARTHWORK.
2. SEE STANDARD SPECIFICATIONS FOR EARTHWORK IF TRENCH WIDTH EXCEEDS THE MAXIMUM SHOWN ON THIS DRAWING.
3. STREET ZONE TO BE COMPACTED TO 95% RELATIVE COMPACTION PER (ASTM D-1557, 5 LAYER). SEE TECHNICAL SPECIFICATIONS FOR EARTHWORK.
4. SEE STREET IMPROVEMENT PLANS (IF APPLICABLE) FOR PAVING REQUIREMENTS.
5. MINIMUM COVER OVER ALL DISTRIBUTION MAINS TO BE 3'-0" AS MEASURED FROM THE FINISHED GRADE.
6. IF REQUIRED DUE TO UNSUITABLE SUBGRADE MATERIAL, PLACE AT LEAST 12" OF NO. 67 CRUSHED AGGREGATE COMPACTED TO 95% RELATIVE COMPACTION FULLY ENCASED IN POLYPROPYLENE, NEEDLE-PUNCHED, NON-WOVEN GEOTEXTILE FABRIC, MIRAFI S600, GEOTEX NW-601 OR EQUAL.

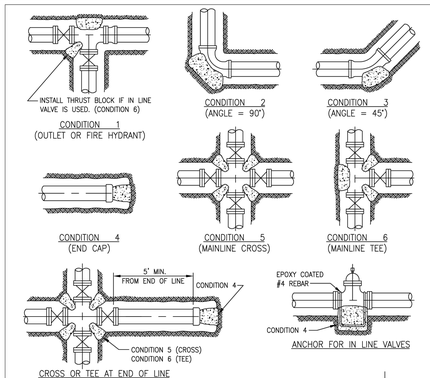
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08/19	REVISE TEXT	WATER PIPE BEDDING AND BACKFILL DETAILS
05/11	REVISE BACKFILL REQUIREMENTS	DATE DRAWN: May 2011 — SHEET NO.: W-2
DATE	REVISION	



SECTION – ELEVATION

NOTE:
WHEN VALVE BOX IS USED FOR SEWER APPURTENANCE, THE LID SHALL BE MARKED "SEWER".

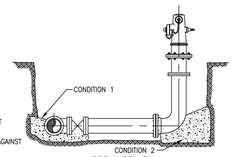
		NIPOMO COMMUNITY SERVICES DISTRICT
08/19	REVISE TEXT	VALVE BOX ASSEMBLY
DATE	REVISION	DATE DRAWN: May 2011 — SHEET NO.: W-3



THRUST BLOCK BEARING AREA IN SQ. FT.

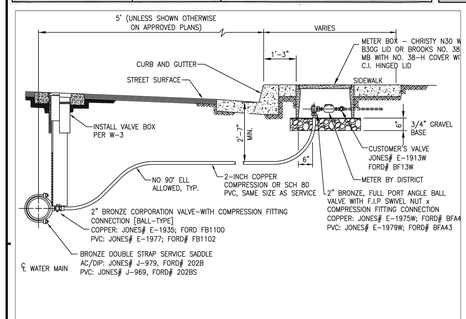
PIPE SIZE	CONDITION 1	2	3	4	5	6
6"	5.0	7.0	4.0	5.0	3.5	EACH 3.5 EACH
8"	8.5	12.0	6.5	8.5	6.0	EACH 6.0 EACH
10"	13.0	18.5	10.0	13.0	9.0	EACH 9.0 EACH
12"	18.5	26.0	14.0	18.5	13.0	EACH 13.0 EACH

BASED ON 1500 P.S.F., 200 P.S.I. TEST PROCEDURE



NOTES:
1. SIZE THRUST BLOCK ACCORDING TO THE LARGEST OUTLET DIAMETER ON TEE OR CROSS.
2. ALL THRUST BLOCK BEARING FACES SHALL BE POURED AGAINST UNDISTURBED SOIL OR APPROVED COMPACTED MATERIAL.
3. SEE SPECIFICATIONS FOR CONCRETE REQUIREMENTS.

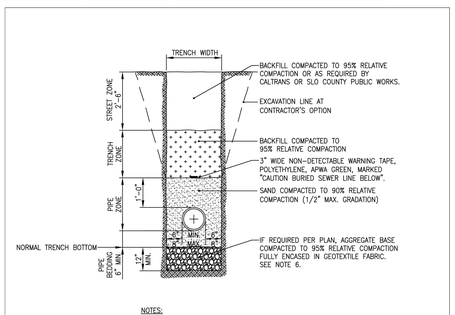
		NIPOMO COMMUNITY SERVICES DISTRICT
08/19	NO REVISIONS	TYPICAL THRUST BLOCK DETAILS
DATE	REVISION	DATE DRAWN: MAY 2011 — SHEET NO.: W-4



GENERAL NOTES:

1. IF METER BOX IS LOCATED ON A SLOPE NEXT TO A CURB, OR SIDEWALK, A PROTECTIVE RETAINING WALL SHALL BE CONSTRUCTED.
2. CORPORATION VALVE TAP SHALL BE MADE AS SPECIFIED BY THE PIPE MANUFACTURER'S INSTALLATION GUIDE. ALL DRY TAPS SHALL BE MADE WITH MACHINE WITH GUIDE OR PILOT FOR TAP.
3. SIZE OF THE SERVICE MUST BE APPROVED BY THE DISTRICT.
4. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP.
5. CORPORATION VALVE TAP SHALL HAVE A SERVICE SADDLE AND SHALL BE MADE AS SPECIFIED BY THE PIPE MANUFACTURER'S INSTALLATION GUIDE. ALL DRY TAPS SHALL BE MADE BY MACHINE WITH GUIDE OR PILOT FOR TAP. (DIRECT TAPS WILL NOT BE ALLOWED)
6. PROVIDE 12 GAUGE INSULATED TRACER WIRE ALONG EACH SERVICE OF SUFFICIENT LENGTH TO EXTEND INTO METER BOX AND A MINIMUM OF 24–INCHES ABOVE FINISH GRADE. COIL NEATLY INSIDE BOX.

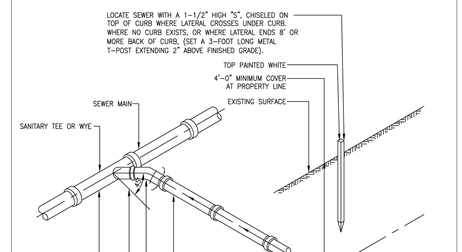
		NIPOMO COMMUNITY SERVICES DISTRICT
08/19	REVISE MODEL NUMBERS	1-1/2" & 2" STANDARD WATER SERVICES
05/11	REVISE MODEL NUMBERS	DATE DRAWN: May 2011 — SHEET NO.: W-9
DATE	REVISION	



NOTES:

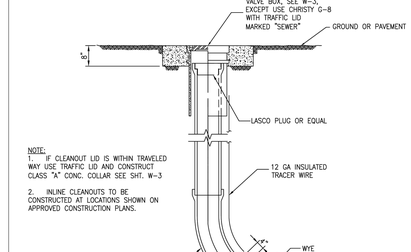
1. SAND SHALL BE PER STANDARD SPECIFICATIONS FOR EARTHWORK.
2. SEE STANDARD SPECIFICATIONS FOR EARTHWORK IF TRENCH WIDTH EXCEEDS THE MAXIMUM SHOWN ON THIS DRAWING.
3. STREET ZONE TO BE COMPACTED TO 95% RELATIVE COMPACTION PER (ASTM D–1557, 5 LAYER). SEE TECHNICAL SPECIFICATIONS FOR EARTHWORK.
4. SEE STREET IMPROVEMENT PLANS (IF APPLICABLE) FOR PAVING REQUIREMENTS.
5. MINIMUM COVER OVER ALL SEWER MAINS TO BE 6'–0" AS MEASURED FROM THE FINISHED GRADE.
6. IF REQUIRED DUE TO UNSUITABLE SUBGRADE MATERIAL, PLACE AT LEAST 12" OF NO. 67 CRUSHED AGGREGATE COMPACTED TO 95% RELATIVE COMPACTION FULLY ENCASED IN POLYPROPYLENE, NEEDLE–PUNCHED, NON–WOVEN GEOTEXTILE FABRIC, MIRAFI S600, GEOTEX NW–601 OR EQUAL.

		NIPOMO COMMUNITY SERVICES DISTRICT
08/19	NO REVISIONS	SEWER PIPE BEDDING AND BACKFILL DETAILS
05/11	REVISE BACKFILL REQUIREMENTS	DATE DRAWN: MAY 2011 — SHEET NO.: S-2
DATE	REVISION	



I S O M E T R I C

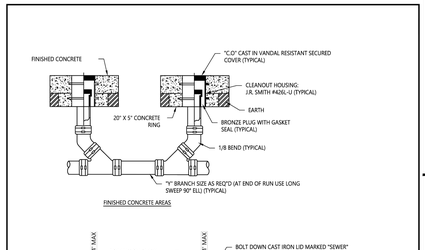
		NIPOMO COMMUNITY SERVICES DISTRICT
		TYPICAL SEWER LATERAL
08/19	REMOVED TRACER WIRE	DATE DRAWN: MAY 2011 — SHEET NO.: S-6
DATE	REVISION	



NOTE:
1. IF CLEANOUT LID IS WITHIN TRAVELED WAY USE TRAFFIC LID AND CONSTRUCT CLASS "A" CONC. COLLAR SEE SHT. W–3
2. INLINE CLEANOUTS TO BE CONSTRUCTED AT LOCATIONS SHOWN ON APPROVED CONSTRUCTION PLANS.

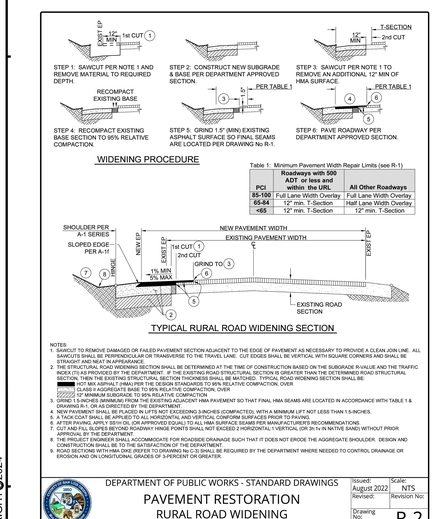
S E C T I O N

		NIPOMO COMMUNITY SERVICES DISTRICT
		INLINE CLEANOUT
08/19	NO REVISIONS	DATE DRAWN: MAY 2011 — SHEET NO.: S-8
DATE	REVISION	



2 2-WAY CLEANOUT

Scale: NTS



WIDENING PROCEDURE

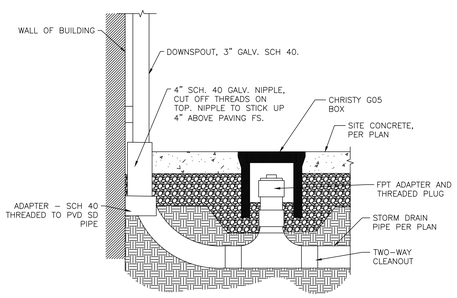
Table 1: Minimum Pavement Width Repair Limits (see R–1)

PCI	Roadways with 500 ADT or less and within the URL:	All Other Roadways
85-100	Full Lane Width Overlay	Full Lane Width Overlay
65-84	12" min. T-Section	Half Lane Width Overlay
<65	12" min. T-Section	12" min. T-Section

TYPICAL RURAL ROAD WIDENING SECTION

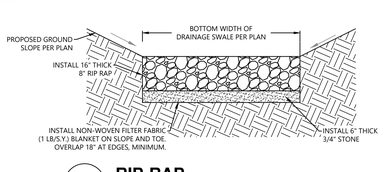
NOTES:
1. SAWCUT TO REMOVE DAMAGED OR FAILED PAVEMENT SECTION ADJACENT TO THE EDGE OF PAVEMENT AS NECESSARY TO PROVIDE A CLEAN JOIN LINE. ALL SAWCUTS SHALL BE PERPENDICULAR OR TRANSVERSE TO THE TRAVEL LANE. CUT EDGES SHALL BE VERTICAL WITH SQUARE CORNERS AND SHALL BE FREE OF LOOSE AND DAMAGED MATERIAL.
2. THE STRUCTURAL AND NON-STRUCTURAL SECTION SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION BASED ON THE SUBGRADE R-VALUE AND THE TRAFFIC INDEX (TI) AS PROVIDED BY THE DEPARTMENT. IF THE EXISTING ROAD STRUCTURAL SECTION IS GREATER THAN THE DETERMINED ROAD STRUCTURAL SECTION, THEN THE EXISTING STRUCTURAL SECTION THICKNESS SHALL BE MATCHED. TYPICAL ROAD WIDENING SECTION SHALL BE:
   HOT MIX ASPHALT (HMA) PER THE DESIGN STANDARDS TO 95% RELATIVE COMPACTION, OVER
   12" MINIMUM CLASS 2 AGGREGATE BASE TO 95% RELATIVE COMPACTION, OVER
   12" MINIMUM SUBGRADE TO 95% RELATIVE COMPACTION.
3. GRIND 1.5-INCHES (MINIMUM) FROM THE EXISTING ADJACENT HMA PAVEMENT SO THAT FINAL HMA SEAMS ARE LOCATED IN ACCORDANCE WITH TABLE 1 & DRAWING R–1 OR AS DIRECTED BY THE DEPARTMENT.
4. NEW PAVEMENT SHALL BE PLACED IN LIFTS NOT EXCEEDING 3-INCHES (COMPACTED), WITH A MINIMUM LIFT NOT LESS THAN 1.5-INCHES.
5. ALL EXPOSED EDGES OF HMA SHALL BE TREATED WITH PAVEMENT EDGE SEALANT PER DETAIL R–2.
6. AFTER PAVING, APPLY 1 SKIM COAT (OR APPROVED EQUAL) TO ALL HMA SURFACE SEAMS PER MANUFACTURER'S RECOMMENDATIONS.
7. CUT AND FILL SLOPES BEYOND ROADWAY HINGE POINTS SHALL NOT EXCEED 2 HORIZONTAL:1 VERTICAL (OR 3H:1v IN NATIVE SAND) WITHOUT PRIOR APPROVAL BY THE DEPARTMENT.
8. THE PROJECT ENGINEER SHALL ACCOMMODATE FOR ROADSIDE DRAINAGE SUCH THAT IT DOES NOT ERODE THE AGGREGATE SHOULDER. DESIGN AND CONSTRUCT DRAINAGE DITCHES, BERMS, OR OTHER MEANS AS NEEDED.
9. ROAD SECTIONS WITH HMA DIKE (REFER TO DRAWING No C–3) SHALL BE REQUIRED BY THE DEPARTMENT WHERE NEEDED TO CONTROL DRAINAGE OR EROSION AND ON LONGITUDINAL GRADES OF 3-PERCENT OR GREATER.

	DEPARTMENT OF PUBLIC WORKS - STANDARD DRAWINGS	Issued: August 2022 — Scale: NTS
	PAVEMENT RESTORATION	Revised: — Revision No:
	RURAL ROAD WIDENING	Drawing No: R–2



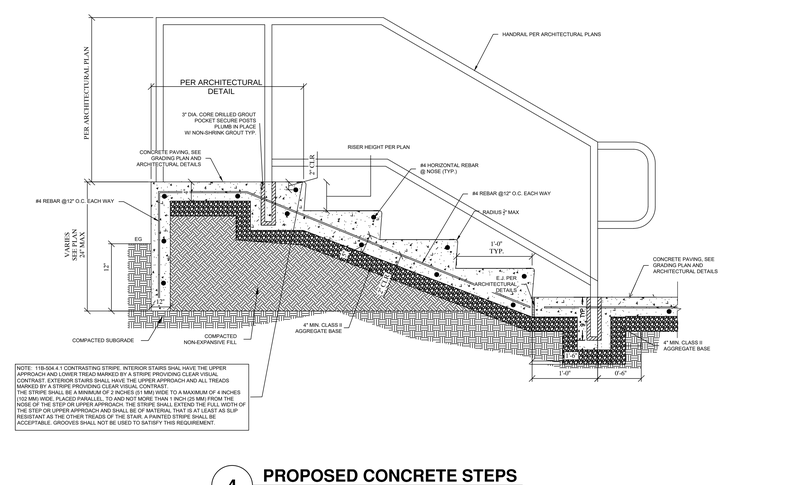
1 DOWNSPOUT CONNECTION TO STORM DRAIN

Scale: NTS



3 RIP-RAP

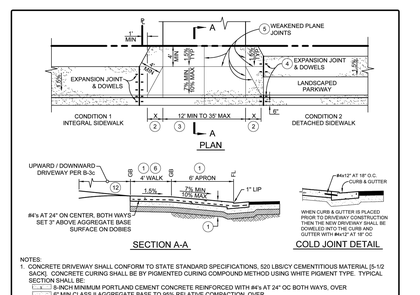
Scale: NTS



NOTE: 11B-504.4.1 CONTRASTING STRIPE: INTERIOR STAIRS SHAL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST THE STRIPE SHALL BE A MINIMUM OF 2 INCHES (51 MM) WIDE TO A MAXIMUM OF 4 INCHES (102 MM) WIDE, PLACED PARALLEL, TO AND NOT MORE THAN 1 INCH (25 MM) FROM THE NOSE OF THE STEP OR UPPER APPROACH. THE STRIPE SHALL EXTEND THE FULL WIDTH OF THE STEP OR APPROACH AND SHALL BE CONTINUOUS. THE STRIPE SHALL BE SLIP RESISTANT AT THE OTHER TREADS OF THE STAIR. A PAINTED STRIPE SHALL BE ACCEPTABLE. GROOVES SHALL NOT BE USED TO SATISFY THIS REQUIREMENT.

4 PROPOSED CONCRETE STEPS

Scale: NTS



NOTES:
1. CONCRETE DRIVEWAY SHALL CONFORM TO STATE STANDARD SPECIFICATIONS, 520 LBS/CY CEMENTITIOUS MATERIAL [5-1/2 SACK]. CONCRETE CURING SHALL BE BY PIGMENTED CURING COMPOUND METHOD USING WHITE PIGMENT TYPE. TYPICAL SECTION SHALL BE:
   6-INCH MINIMUM PORTLAND CEMENT CONCRETE REINFORCED WITH #4's AT 24" OC BOTH WAYS, OVER
   6" MIN CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION, OVER
   12" MINIMUM SUBGRADE TO 95% RELATIVE COMPACTION
   IF THE R-VALUE OF THE NATIVE MATERIAL IS 55 OR GREATER THEN THE 6-INCHES OF AGGREGATE BASE MAY BE SUBSTITUTED WITH COMPACTED NATIVE MATERIAL.
   A COURSE BROOM FINISH PERPENDICULAR TO THE LINE OF TRAFFIC SHALL BE USED ON THE APRON AND WINGS. THE 4-FEET WIDE SIDEWALK SHALL HAVE A LIGHT BROOM FINISH PARALLEL TO THE LINE OF TRAFFIC.
2. A = 5-FEET (IN 1v) EXCEPT FOR CURB HEIGHTS OVER 8-INCHES WHERE 4h:1v SLOPES SHALL BE USED ON CURB SLOPE.
3. 1v DRIVEWAY WIDTH SHALL BE 12-FEET MAXIMUM AND 10-FEET MINIMUM FOR COMMERCIAL-INDUSTRIAL ACCESS.
4. EXPANSION JOINTS (EJ) SHALL BE CONSTRUCTED AS SHOWN AT 12'-0" MAXIMUM SPACING. DOWELS SHALL BE PLACED IN THE EJ ONE FOOT FROM THE FACE, AND THEN EACH AT 18-INCHES ON CENTER PER STANDARD DRAWING C-1.
5. WEAKENED PLANE JOINTS (WPJ) SHALL BE CONSTRUCTED AS SHOWN AND PER STANDARD DRAWING C-1.
6. THE SLOPE OF THE DRIVEWAY WALK SHALL BE 1.5% (3/16-INCH PER FOOT), BUT NOT EXCEED 2% (1/4-INCH PER FOOT). MINIMUM WALK WIDTH FOR CLEAR PASSAGE SHALL BE MAINTAINED (NO OBSTACLES WITHIN).
7. WHERE THE IMPROVEMENTS EXTEND BEYOND THE RIGHT-OF-WAY, THE ACQUISITION OF PEDESTRIAN EASEMENTS SHALL BE REQUIRED BY THE DEPARTMENT.
8. REFER TO A-5 SERIES DRAWINGS FOR DRIVEWAY SIGHT DISTANCE REQUIREMENTS.
9. FOR NEW DRIVEWAY CONSTRUCTION AGAINST EXISTING ROADWAY, SAWCUT TO REMOVE EXISTING ROADWAY AND RECONSTRUCT PER DRAWINGS R-1 AND R-3.
10. THE HIGH VOLUME DRIVEWAY STANDARD B-3c SHALL BE USED AT ENTRANCES THAT EXCEED 200 VEHICLES PER PM PEAK HOUR AND EXIT ONTO AN ARTERIAL ROAD. THE DEPARTMENT RESERVES THE RIGHT TO REQUIRE THE USE OF A HIGH VOLUME DRIVEWAY BASED ON OTHER EXISTING CONDITIONS.
11. UNDER NO CIRCUMSTANCES SHALL UTILITY LIDS AND CONCRETE COLLARS BE LOCATED WITHIN DRIVEWAY APRONS.
12. OUTSIDE THE PUBLIC RIGHT-OF-WAY, THE DRIVEWAY STRUCTURAL SECTION SHALL BE DETERMINED BY THE PROJECT DESIGNER AND SHALL BE IN COMPLIANCE WITH COFFIRE REGULATIONS.

	DEPARTMENT OF PUBLIC WORKS - STANDARD DRAWINGS	Issued: August 2022 — Scale: 1"=10'
	COMMERCIAL DRIVEWAY	Revised: — Revision No:
	TYPICAL DRIVEWAY	Drawing No: B-3a

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DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
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CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
DAVID W. CHANLEY
NO 70849
CIVIL
STATE OF CALIFORNIA

CLAD

DETAIL SHEET

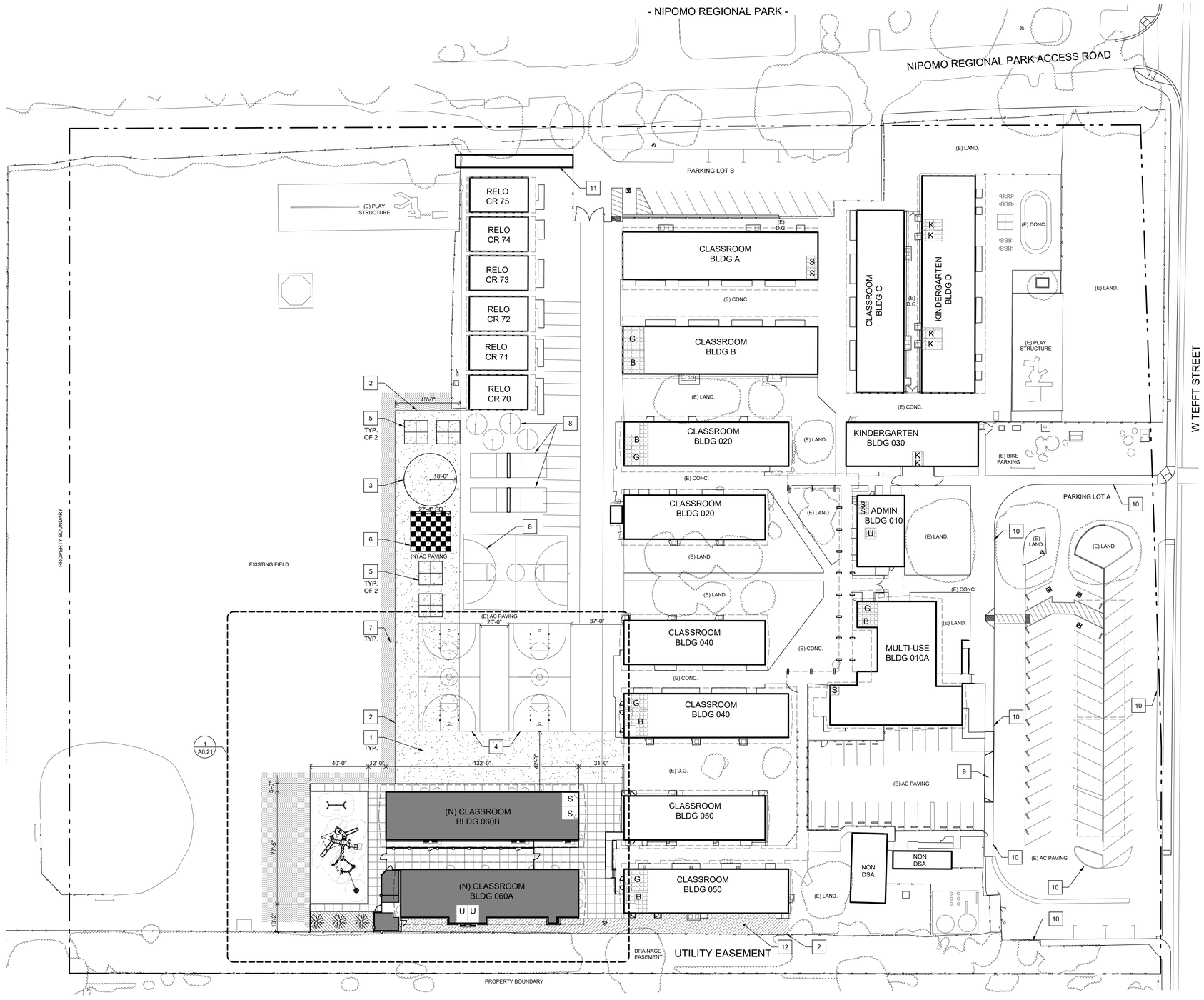
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
1	FINNEY ARCH COMMENTS	08/04/25

DRAWN BY: EP
CHECKED BY: AG, DC
PROJECT NO: 24075 — DATE: DSA V3 SUBMITTAL: 05/28/2026

C11



1 NEW SITE PLAN

1" = 30'-0"

0 7.5' 15' 30' 60' 90'

GENERAL NOTES

A. REFER TO LANDSCAPE, CIVIL, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE ALARM DRAWINGS FOR EXTENT OF OTHER RELATED WORK.

B. SEE GEOTECHNICAL REPORT FOR SOILS PREPARATION.

NEW SITE PLAN NOTES

1. NEW AC PAVING, SEE CIVIL DRAWINGS.
2. NEW REDWOOD HEADER BOARD, AT ALL EDGES OF NEW AC PAVING AND DECOMPOSED GRANITE. SEE DETAIL 11/A0.30
3. NEW CIRCLE PLAY STRIPING, 2" WIDE.
4. NEW BASKETBALL COURT STRIPING WITH POLE-MOUNTED HOOPS, AT EACH END OF COURT, SEE DETAILS 12 AND 15/A0.50
5. NEW FOUR SQUARE STRIPING, SEE DETAIL 16/A0.50
6. NEW CHECKERS GRID, 8 x 8, 41" SQUARES, OUTSIDE LINE 2" WIDE.
7. REGRADE FIELD AREAS TO CONFORM SMOOTHLY TO NEW IMPROVEMENTS AND EXISTING FIELD GRADES (EXACT EXTENTS TO VARY). REFER TO CIVIL DRAWINGS. INSTALL NEW SOD IN ALL DISTURBED AREAS TO MATCH EXISTING.
8. RESTRIPE IN-KIND EXISTING COURT AFTER SEAL COATING, TYPICAL OF ALL STRIPING.
9. DRIVE APPROACH AND SIDEWALK REPLACEMENT, SEE CIVIL DRAWINGS.
10. AT EXISTING CURBS, ALL EXISTING PAINT SHALL BE SCRAPED CLEAN AND CURBS REPAINTED IN LIKE COLORS.
11. RELOCATED STORAGE CONTAINERS AND SHEDS BY CONTRACTOR, SEE CIVIL DEMOLITION PLAN. FINAL LOCATION PER OWNER.
12. DECOMPOSED GRANITE, GOLD FINES, 3" LAYER, COMPACTED. SLOPE TO DRAIN AWAY FROM BUILDING.

GRAPHIC KEY

- EXISTING PROPERTY LINE
- ROOF OVERHANG
- EXISTING CHAINLINK FENCE
- NEW CHAINLINK FENCE
- DECORATIVE FENCE
- NEW BUILDING
- EXISTING BUILDING
- EXISTING RESTROOMS
- NEW CONCRETE PAVING
- NEW AC PAVING
- WOOD CHIP MULCH
- DECOMPOSED GRANITE
- FIELD REGRADING & REPLANTING AREA

G (E) GIRLS TOILET ROOM
B (E) BOYS TOILET ROOM
K (E) KINDERGARTEN TOILET ROOM
S STAFF UNISEX TOILET ROOM
U UNISEX TOILET ROOM

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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

NEW SITE PLAN

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

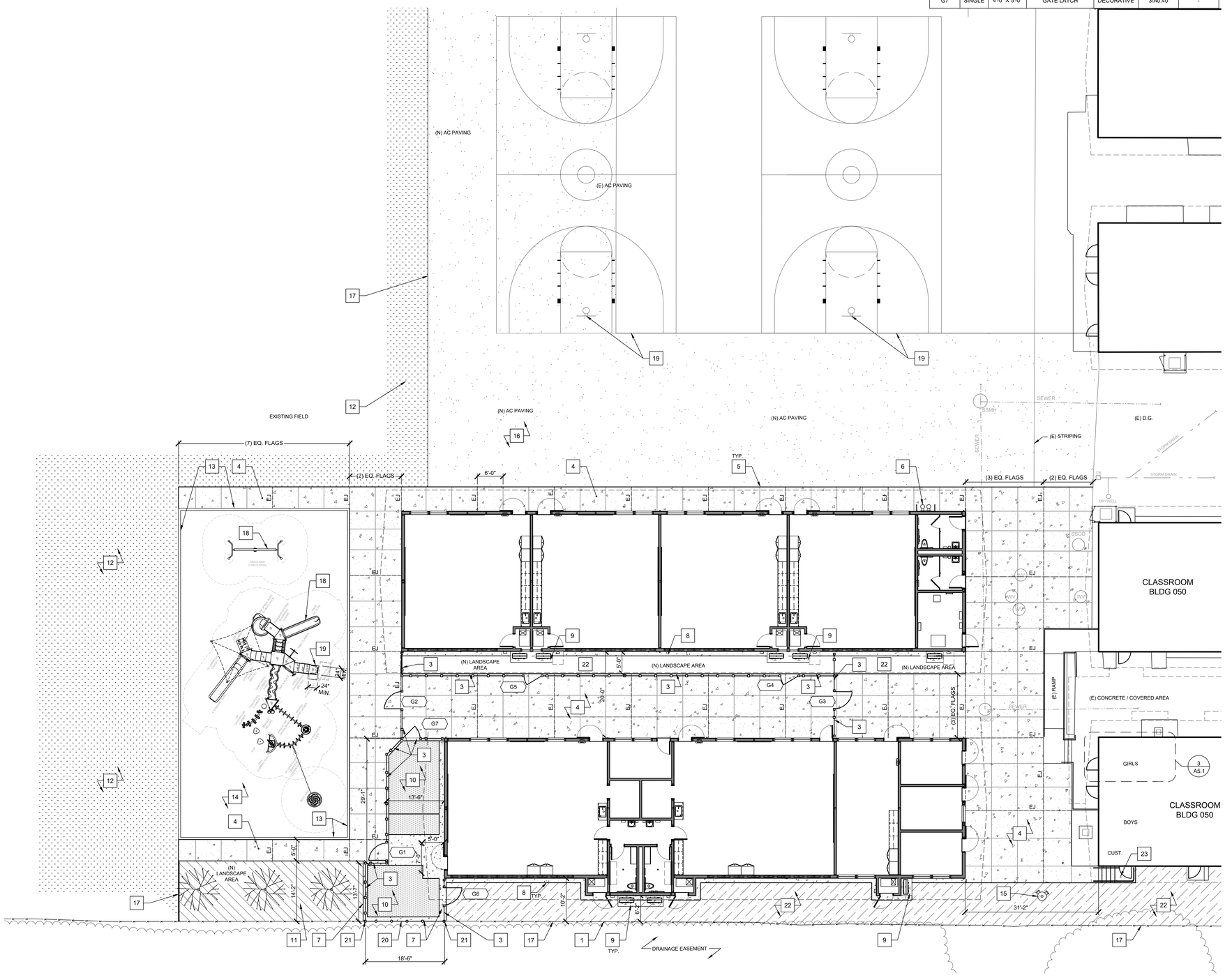
REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: DATE:
24149 DSA V2 SUBMITTAL: 06-12-26

A0.20

GATE SCHEDULE

GATE (GX)		SIZE (W X H)	HARDWARE	TYPE	DETAIL REFERENCE	REMARKS
G1	SINGLE	4'-0" X 5'-0"	W/ PANIC HARDWARE	DECORATIVE	5&6/A0.40	CYLINDER DOGGING
G2	SINGLE	4'-0" X 5'-0"	W/ PANIC HARDWARE	DECORATIVE	5&6/A0.40	CYLINDER DOGGING
G3	SINGLE	4'-0" X 5'-0"	W/ PANIC HARDWARE	DECORATIVE	5&6/A0.40	CYLINDER DOGGING
G4	SINGLE	4'-0" X 5'-0"	GATE LATCH	DECORATIVE	3/A0.40	-
G5	SINGLE	4'-0" X 5'-0"	GATE LATCH	DECORATIVE	3/A0.40	-
G6	SINGLE	4'-0" X 5'-0"	GATE LATCH	DECORATIVE	3/A0.40	-
G7	SINGLE	4'-0" X 5'-0"	GATE LATCH	DECORATIVE	3/A0.40	-



1 ENLARGED PARTIAL NEW SITE PLAN

1" = 10'-0"

0 2.5' 5' 10' 20' 30'

GENERAL NOTES

A. REFER TO CIVIL, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE ALARM DRAWINGS FOR EXTENT OF OTHER RELATED WORK.

B. SEE GEOTECHNICAL REPORT FOR SOILS PREPARATION.

ENLARGED PARTIAL NEW SITE PLAN NOTES

1. EXISTING CHAIN LINK FENCE.
2. NOT USED.
3. NEW 60" HIGH DECORATIVE METAL FENCE, SEE DETAIL 1/A0.40
4. NEW CONCRETE PAVING, SEE CIVIL DRAWINGS AND DETAILS 1 & 2/A0.30
5. CONCRETE WALKWAY TO AC PAVING, FLUSH TRANSITION.
6. NEW WALL-MOUNTED HI-LO DRINKING FOUNTAIN WITH GUARDRAILS, SEE DETAIL 7/A9.6.
7. NEW CONCRETE HEADER AT FENCE, SEE DETAIL 5/A0.30
8. 12" WIDE PERIMETER BUILDING APRON. SEE DETAIL 9/A0.30
9. OUTDOOR CONDENSING UNIT ON CONCRETE PAD. SEE MECHANICAL DRAWINGS AND SEE DETAIL 10/A0.30 FOR CONCRETE PAD.
10. NEW SYNTHETIC TURF, SEE DETAIL 8/A0.30
11. FINELY GRADE SOIL TO DRAIN AWAY FROM BUILDINGS AND IMPROVEMENTS AND INSTALL 3" LAYER OF WOODCHIP MULCH.
12. REGRADE FIELD AREAS TO CONFORM SMOOTHLY TO NEW IMPROVEMENTS AND EXISTING FIELD GRADES (EXACT EXTENTS TO VARY). REFER TO CIVIL DRAWINGS. INSTALL NEW SOD IN ALL DISTURBED AREAS TO MATCH EXISTING.
13. NEW CONCRETE PERIMETER CURB AROUND PLAY BOX, FLUSH WITH ADJACENT CONCRETE WALKWAY, SEE DETAIL 7/A0.30
14. NEW POURED-IN-PLACE RUBBERIZED PLAY SURFACE BY PLAY EQPT. MANUFACTURER. SEE DETAIL 7/A0.30. NOTE SCOPE REQMTS ON SHEET T1.
15. EXISTING FIRE HYRDANT.
16. NEW AC PAVING, SEE CIVIL DRAWINGS.
17. NEW REDWOOD HEADER BOARD AT EDGE OF AC PAVING OR DECOMPOSED GRANITE, SEE DETAIL 11/A0.3
18. NEW PLAY EQUIPMENT, BY PLAY EQPT. MANUFACTURER. SEE ENLARGED PLAN 9/A0.50
19. NEW BASKETBALL COURT STRIPING WITH POLE-MOUNTED HOOPS, AT EACH END OF COURT, SEE DETAIL 12 AND 15A/0.50
20. NEW 6' HIGH CHAIN LINK FENCE. MATCH EXISTING HEIGHT OF CHAIN LINK FENCE. SEE DETAIL 9/A0.40.
21. INSTALL POST AT CORNERS AND CONNECT NEW FENCE TO EXISTING.
22. DECOMPOSED GRANITE, GOLD FINES, 3" THICK LAYER, COMPACTED.
23. NEW LANDING, STEPS, AND HANDRAIL AT EXISTING CUSTODIAL ROOM DOOR. SEE CIVIL PLANS AND DETAIL 10/A0.40 FOR HANDRAIL.

GRAPHIC KEY

- ROOF OVERHANG
- EXISTING CHAINLINK FENCE
- NEW CHAINLINK FENCE
- DECORATIVE FENCE
- EJ+ NEW CONCRETE PAVING
  - EXPANSION JOINT
  - TOOLED SCORE JOINT
- WOOD CHIP MULCH
- DECOMPOSED GRANITE
- APPROX. FIELD REGRADING & REPLANTING AREA
- NEW ASPHALT PAVING

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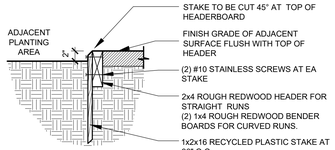
ENLARGED PARTIAL NEW SITE PLAN

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REVISIONS
NO. ITEM DATE

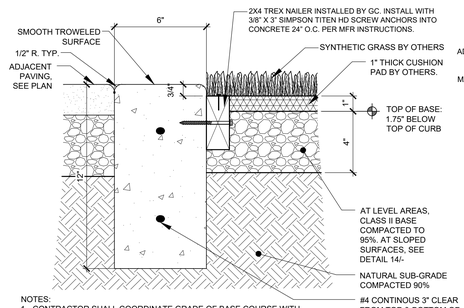
DRAWN BY: GR, JT, MB
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FA PROJECT NO: DATE:
24149 DSA V2 SUBMITTAL: 06-12-26

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11 REDWOOD HEADER

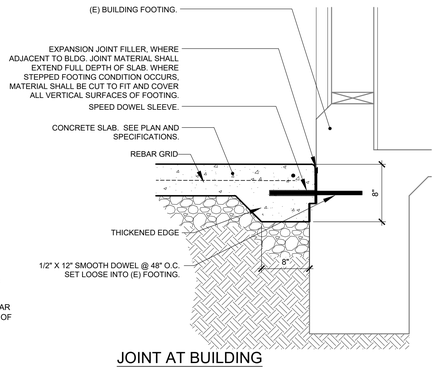
AT EDGE OF PAVING — N.T.S



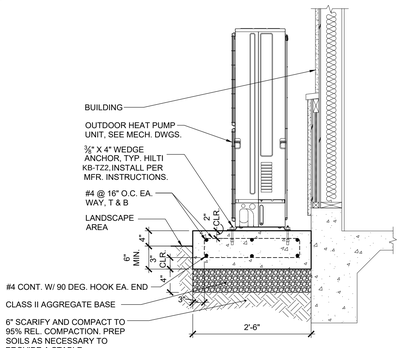
NOTES:
1. CONTRACTOR SHALL COORDINATE GRADE OF BASE COURSE WITH MANUFACTURER'S SECTION THICKNESS FOR CUSHION AND TURF SURFACING TO ACHIEVE FINISHED GRADES AS INDICATED ON PLAN.
2. TREX NAILER SHALL BE INSTALLED AROUND COMPLETE PERIMETER OF SYNTHETIC TURF SURFACING AREAS, FOR EXAMPLE WHERE TURF ADJOINS FENCE HEADER OR OTHER PAVING, TACK STRIP SHALL BE ATTACHED TO IT.

8 TURF SURFACING

AT NON-PLAYGROUND AREAS — 3"=1'-0"

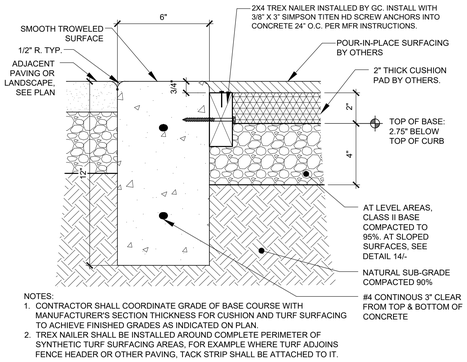


JOINT AT BUILDING



10 CONDENSING UNIT

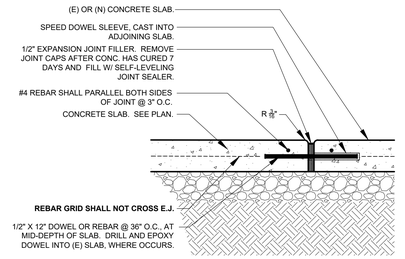
AT LANDSCAPE AREA — 3/4"=1'-0"



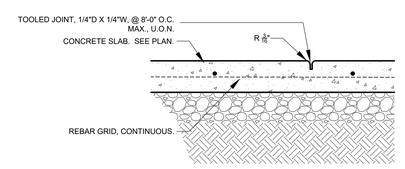
NOTES:
1. CONTRACTOR SHALL COORDINATE GRADE OF BASE COURSE WITH MANUFACTURER'S SECTION THICKNESS FOR CUSHION AND TURF SURFACING TO ACHIEVE FINISHED GRADES AS INDICATED ON PLAN.
2. TREX NAILER SHALL BE INSTALLED AROUND COMPLETE PERIMETER OF SYNTHETIC TURF SURFACING AREAS, FOR EXAMPLE WHERE TURF ADJOINS FENCE HEADER OR OTHER PAVING, TACK STRIP SHALL BE ATTACHED TO IT.

7 FALL PROTECTION SURFACE & CURB

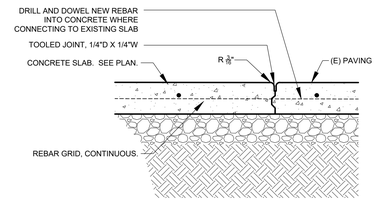
AT PLAYGROUND AREAS — 3"=1'-0"



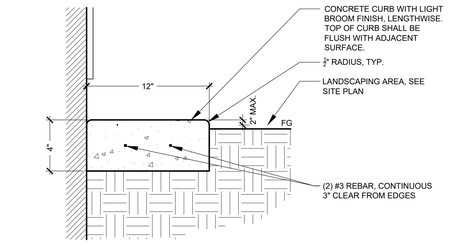
EXPANSION JOINT



TOOLED JOINT



CONSTRUCTION JOINT / TO EXISTING PAVING

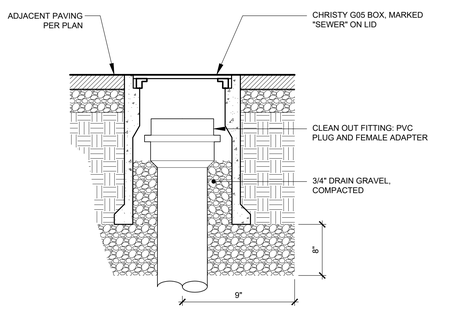


9 CONCRETE HEADER

AT BUILDING EDGE/PLANTING AREA — N.T.S

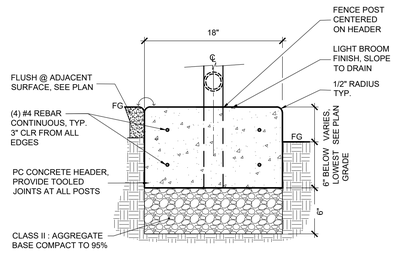
2 CONCRETE PAVING JOINTS

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



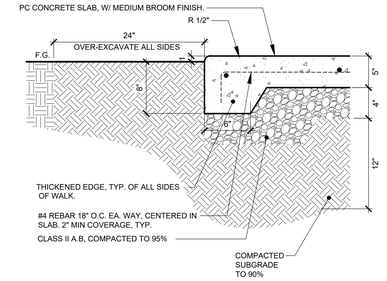
9 CLEAN OUT AT GRADE

SANITARY SEWER — NTS



5 CONCRETE HEADER

AT FENCE — 1 1/2"=1'-0"



THICKENED EDGE (STANDARD) CONDITION

NOTE:
SEE CONCRETE PAVING JOINTS DETAIL FOR TYPES AND LOCATION.

1 CONCRETE PAVING

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

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
No. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

SITE DETAILS

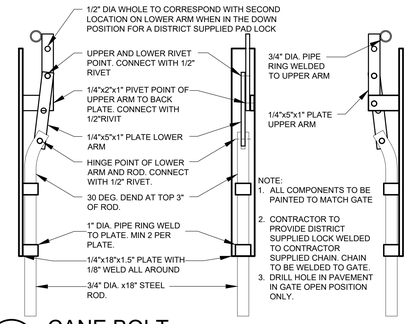
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

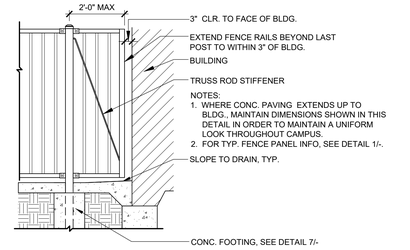
DRAWN BY:	GR, JT, MB
CHECKED BY:	MF, JB, JT
FA PROJECT NO:	DATE:
24149	DSA V2 SUBMITTAL: 06-12-26

A0.30



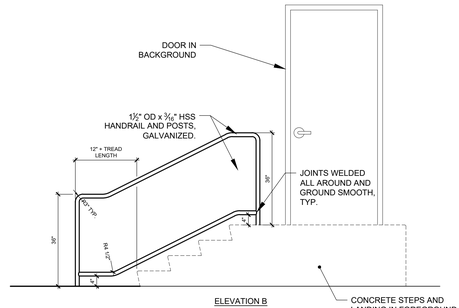
8 CANE BOLT

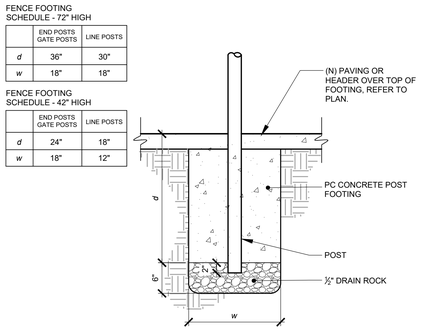
3"=1'-0"



4 FENCE ELEVATION AT BUILDING

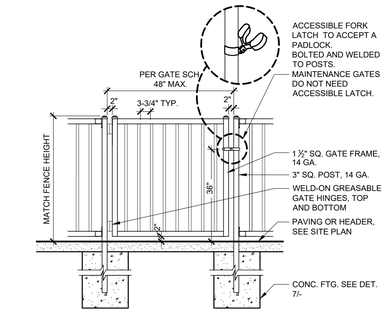
DECORATIVE FENCE 1/2"=1'-0"





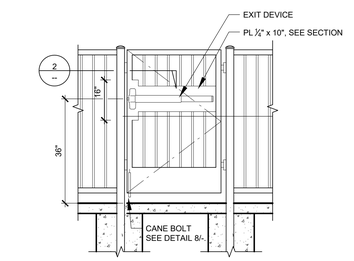
7 FENCE FOOTING & HEADER

SCALE: NTS



3 SINGLE MAINTENANCE GATE

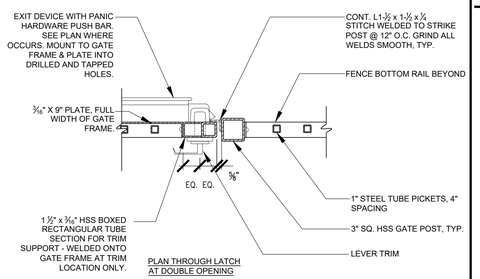
AT DECORATIVE FENCE 1/2"=1'-0"



NOTES:
1. ALL OTHER ITEMS SAME AS INDICATED IN EXTERIOR ELEVATION.

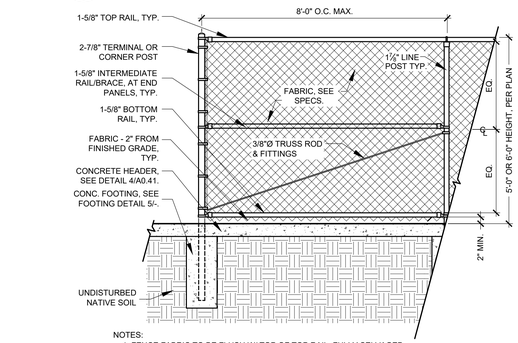
6 DECORATIVE SINGLE GATE

ELEVATION - INTERIOR 1/2"=1'-0"



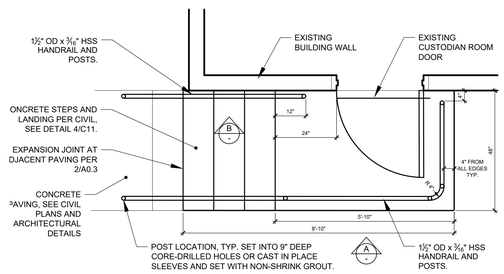
2 DECORATIVE GATE STRIKE DETAIL

PLAN VIEW 1-1/2"=1'-0"



9 6-FOOT CHAIN LINK FENCE

ELEVATION 1/2"=1'-0"



NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION.
2. HANDRAIL ASSEMBLY SHALL BE HOT DIPPED GALVANIZED AFTER COMPLETE FABRICATION. FIELD WELDING PROHIBITED.

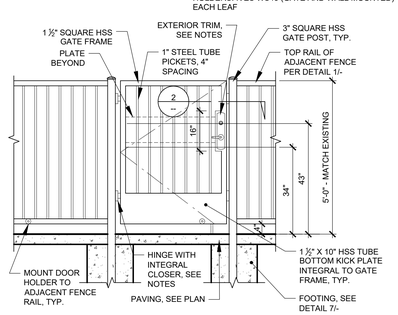
10 HANDRAIL AT DOOR LANDING

BUILDING 050 CUSTODIAL ROOM 1/2"=1'-0"

NOTES:
1. ALL WELDS SHALL CONTINUOUS AROUND ALL CONNECTIONS.
2. ALL WELDS SHALL BE FREE OF PITS, BURS, AND GROUND SMOOTH.
3. ALL ASSEMBLIES SHALL BE FULLY PRIMED AND PAINTED AFTER FABRICATION.
4. THE CONTRACTOR SHALL SUBMT SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION.

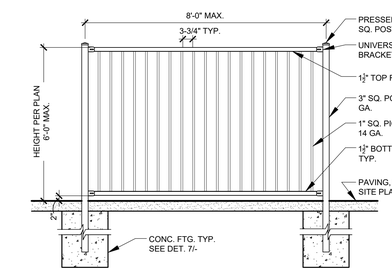
PANIC GATES SHALL HAVE THE FOLLOWING HARDWARE PACKAGE:

PUSH SIDE: PANIC HARDWARE: VON DUPRIN MODEL 98/99 AX RIM DEVICE, 626 FINISH, CYLINDER DOGGING
PULL SIDE: SCHLAGE ANTI-VANDAL LEVER TRIM, "RHODES" STYLE LEVER.
CYLINDERS: 6-PIN FULL SIZE INTERCHANGEABLE CORE (FSIC)
HINGES/CLOSERS: LOCINOX "MAMMOTH" 180° WITH LOWER "DINO" HINGE
HOLDERS: IVES WS40 (GATE AND WALL MOUNTED) EACH LEAF



5 DECORATIVE SINGLE GATE

ELEVATION - EXTERIOR 1/2"=1'-0"



1 DECORATIVE FENCE

1/2"=1'-0"

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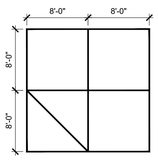
SITE DETAILS
FENCE AND GATES

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: DATE:
24149 DSA V3 SUBMITTAL: 06-12-26

A0.40



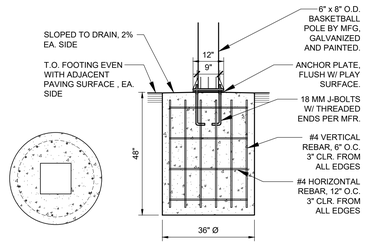
FOUR SQUARE
PRIMARY

NOTES:
ALL STRIPING TO BE 2" WIDE WHITE TRAFFIC PAINT UNLESS NOTED OTHERWISE. PAINT TO BE WATER BASED, 100% ACRYLIC, LEAD FREE, NON-BLEEDING STRIPING AND MARKING MATERIAL FOR PERMANENT, EXTERIOR GAME LINE MARKING.

16 GAME STRIPING

FOUR SQUARE 1/8"=1'-0"

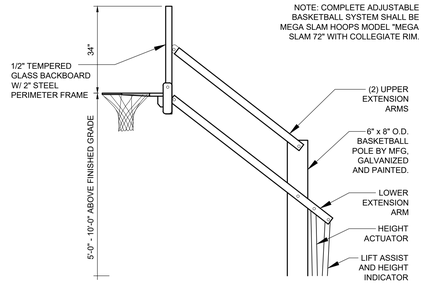
NOTE: BASKETBALL EQUIPMENT PER MEGASLAM HOOPS, MODEL: MEGASLAM 72



PLAN SECTION

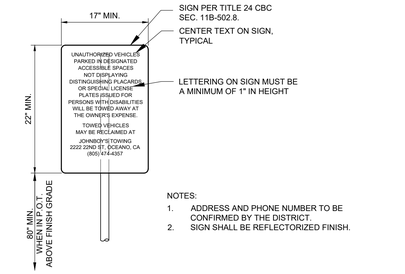
12 BASKETBALL POLE FOOTING

1/2"=1'-0"



8 BASKETBALL BACKBOARD

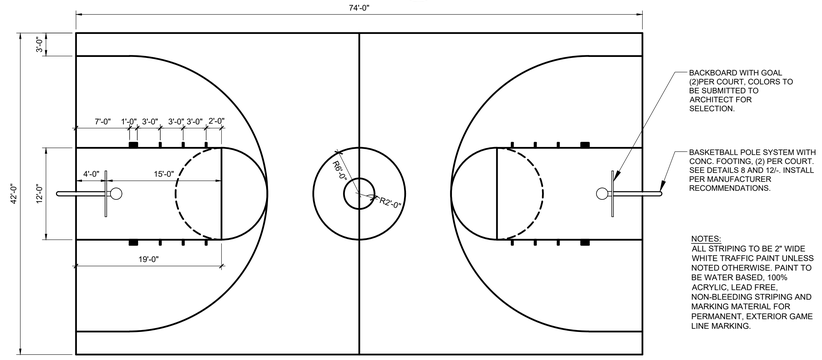
SIDE ELEVATION 1/2"=1'-0"



NOTES:
1. ADDRESS AND PHONE NUMBER TO BE CONFIRMED BY THE DISTRICT.
2. SIGN SHALL BE REFLECTORIZED FINISH.

4 EXISTING ENTRY WARNING SIGN

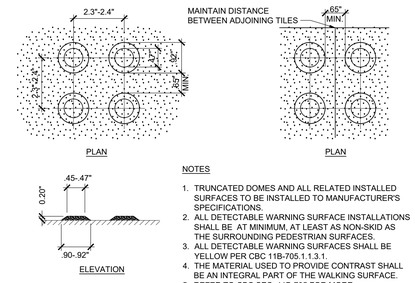
DSA #01-113765 1"=1'-0"



NOTES:
ALL STRIPING TO BE 2" WIDE WHITE TRAFFIC PAINT UNLESS NOTED OTHERWISE. PAINT TO BE WATER BASED, 100% ACRYLIC, LEAD FREE, NON-BLEEDING STRIPING AND MARKING MATERIAL FOR PERMANENT, EXTERIOR GAME LINE MARKING.

15 BASKETBALL COURT LAYOUT

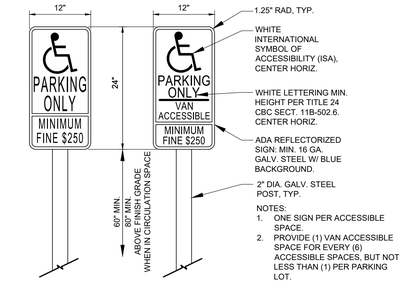
PRIMARY SCHOOL DIMENSIONS 1/8"=1'-0"



NOTES
1. TRUNCATED DOMES AND ALL RELATED INSTALLED SURFACES TO BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS.
2. ALL DETECTABLE WARNING SURFACE INSTALLATIONS SHALL BE AT MINIMUM, AT LEAST AS NON-SKID AS THE SURROUNDING PEDESTRIAN SURFACES.
3. ALL DETECTABLE WARNING SURFACES SHALL BE YELLOW PER CBC 11B-705.1.1.3.1.
4. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
5. REFER TO CBC SEC. 11B-705 FOR MORE INFORMATION.

7 TRUNCATED DOMES

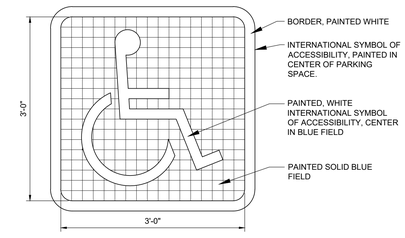
1/2"=1'-0"



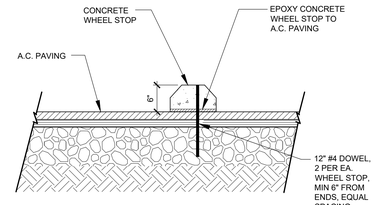
NOTES:
1. ONE SIGN PER ACCESSIBLE SPACE.
2. PROVIDE (1) VAN ACCESSIBLE SPACE FOR EVERY (6) ACCESSIBLE SPACES, BUT NOT LESS THAN (1) PER PARKING LOT.

3 EXISTING ACCESSIBLE PARKING SIGN

DSA #01-113765 1"=1'-0"



NOTES:
1. GRID LINES ARE SHOWN FOR PROPORTION ONLY AND ARE NOT TO APPEAR AS PART OF SYMBOL.
2. DA SIGNAGE SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE.
3. SYMBOL SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PARKED IN THE SPACE.
4. PAINT TO BE TRAFFIC PAINT
5. SYMBOL PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1.

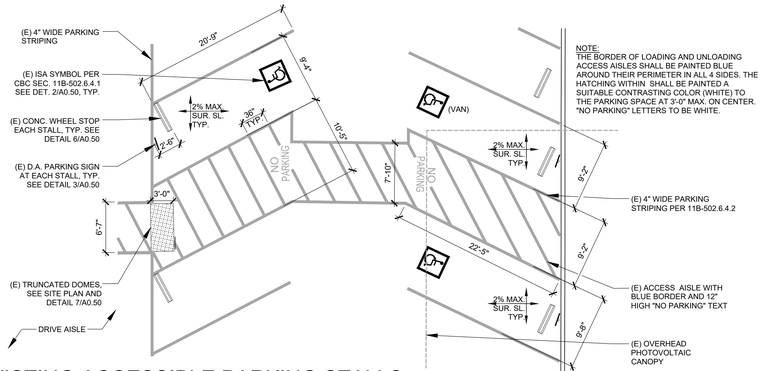


6 EXISTING WHEEL STOP

1"=1'-0"

2 INTERNATIONAL SYMBOL FOR ACCESSIBILITY (I.S.A.)

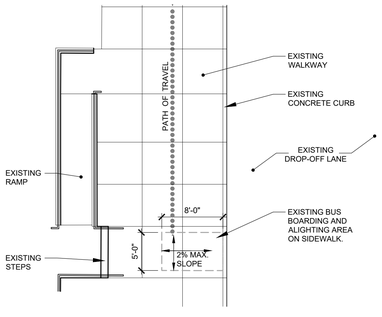
1"=1'-0"



NOTE:
THE BORDER OF LOADING AND UNLOADING ACCESS AISLES SHALL BE PAINTED BLUE AROUND THEIR PERIMETER IN ALL 4 SIDES. THE HATCHING WITHIN SHALL BE PAINTED A SUITABLE CONTRASTING COLOR (WHITE) TO THE PARKING SPACE AT 3'-0" MAX. ON CENTER. "NO PARKING" LETTERS TO BE WHITE.

5 EXISTING ACCESSIBLE PARKING STALLS

DSA #01-113765 1/8"=1'-0"



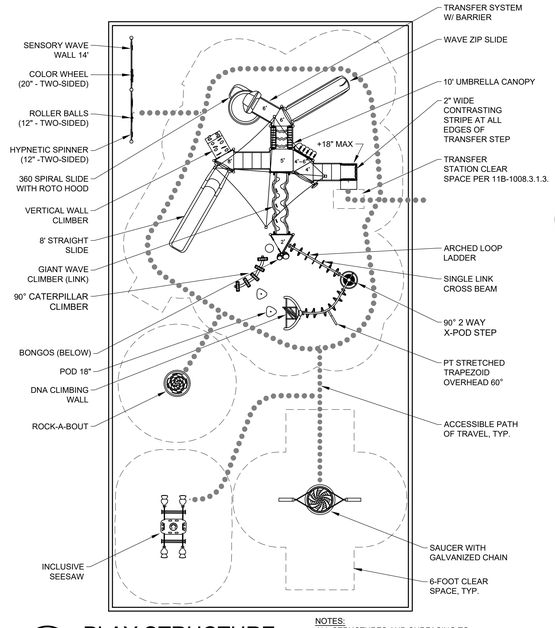
17 EXISTING BUS BOARDING AREA

ENLARGED PLAN 1/8"=1'-0"

PLAY EQUIPMENT NOTES

PLAY EQUIPMENT FOR CHILDREN AGES 5-12
TOTAL ELEVATED PLAY COMPONENTS: 10
TOTAL ELEVATED PLAY COMPONENTS ACCESSIBLE BY RAMP: 0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER STEP: 10
(5 REQUIRED)
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS: 10
(3 REQUIRED)
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS: 5
(3 REQUIRED)

A. PLAY STRUCTURES WITH ELEVATED PLAY COMPONENTS SHALL PROVIDE A TRANSFER PLATFORM TO COMPLY WITH CBC 11B-1008.3.1.1. TRANSFER PLATFORMS SHALL HAVE LEVEL SURFACES 14 INCHES DEEP MINIMUM AND 24 INCHES WIDE MINIMUM.
B. THE HEIGHT OF TRANSFER PLATFORMS SHALL BE 11 INCHES MINIMUM AND 18 INCHES MAXIMUM TO THE TOP OF THE SURFACE FROM THE GROUND PER CBC 11B-1008.3.1.2.
C. TRANSFER STEPS SHALL BE PROVIDED WHERE MOVEMENT IS INTENDED FROM TRANSFER PLATFORMS TO LEVELS WITH ELEVATED PLAY COMPONENTS.
D. TRANSFER STEPS SHALL HAVE LEVEL SURFACES 14 INCHES DEEP MINIMUM AND 24 INCHES WIDE MINIMUM WITH 8 INCH MAX HEIGHT PER CBC 11B-1008.3.2.1 AND 11B-1008.3.2.2. CONTRASTING STRIPING SHALL BE PROVIDED AT EACH TRANSFER STEP PER CBC 11B-1008.3.2.4.
E. FINAL PLAY STRUCTURE DESIGN SHALL COMPLY WITH CBC TABLE 11B-240.2.12 BELOW.
F. WHERE ELEVATED PLAY COMPONENTS ARE PROVIDED, AT LEAST 50 PERCENT SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH SECTION 11B-1008.4.
G. PLAY STRUCTURES ARE EXEMPT FROM DSA STRUCTURAL AND FIRE LIFE SAFETY REVIEW PER DSA IR A-22 APPENDIX ITEM 10.



NOTES:
ALL STRUCTURES AND SURFACING TO BE INSTALLED BY MANUFACTURER

9 PLAY STRUCTURE

PRIMARY 1/8"=1'-0"

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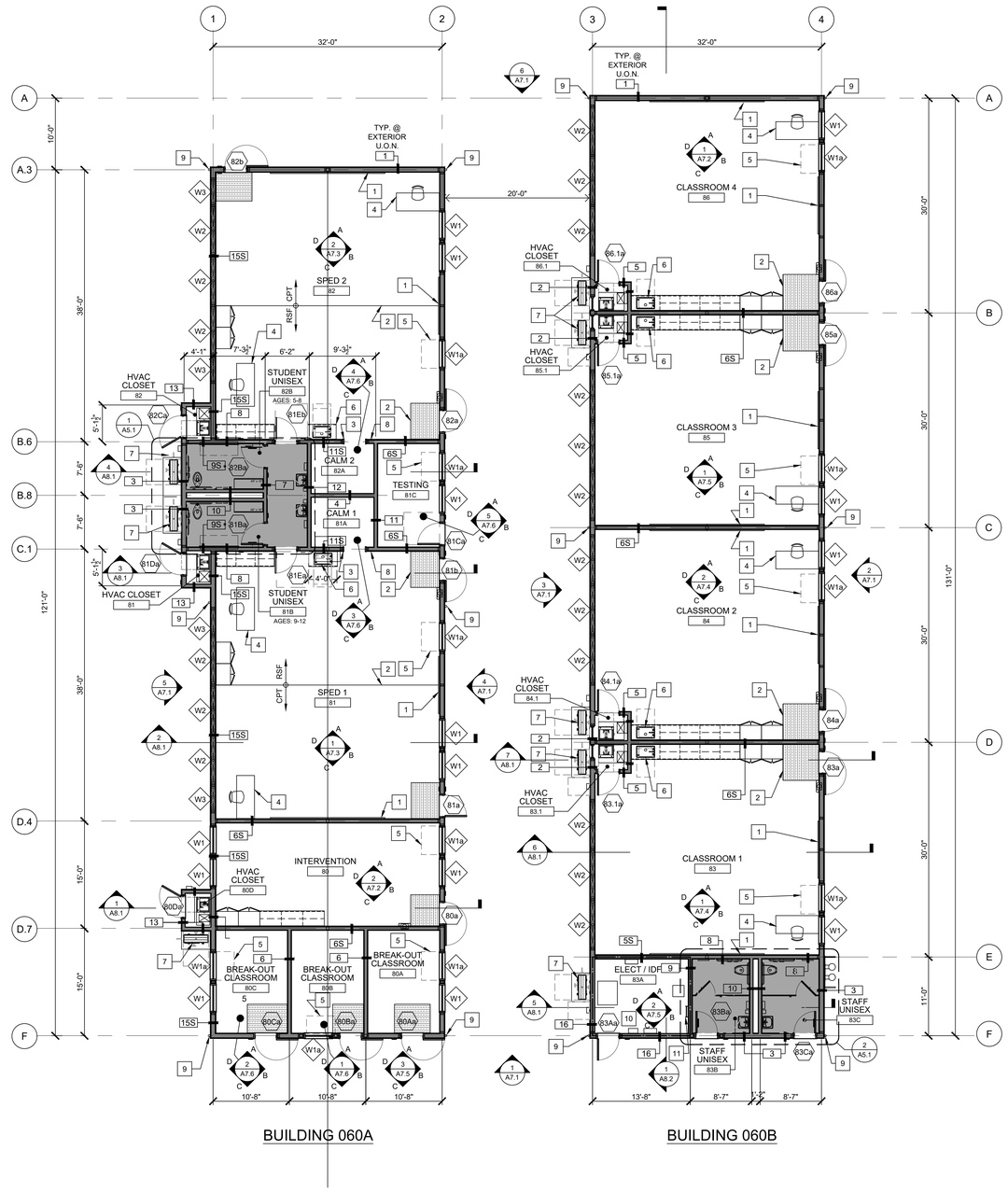
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LUCIA MAR UNIFIED SCHOOL DISTRICT

SITE DETAILS

REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-12-26

A0.50



BUILDING 060A

BUILDING 060B

1 FLOOR PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

GENERAL NOTES

A. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF OTHER RELATED WORK.
B. 2X8 EXTERIOR STUD WALLS SHALL HAVE R-25 INSULATION.
C. 2X6 EXTERIOR STUD WALLS SHALL HAVE R-19 INSULATION.
D. INTERIOR STUD WALLS SHALL HAVE R-19 INSULATION.
E. SEE FINISH SCHEDULE FOR INTERIOR FINISHES.
F. SEE SHEET A2.2 FOR FLOORING LAYOUT.
G. FOR ACCESSIBLE DOOR MANEUVERING CLEARANCES, SEE DETAIL 1/A6.1.
H. THE AIR HANDLING UNIT IN THE HVAC CLOSET SHALL BE LOCATED IN FRONT OF THE DOOR FOR SERVICE ACCESS AND MAINTENANCE. ENSURE ACCESS IS PROVIDED FOR FILTER REPLACEMENT AND/OR ACCESS TO OTHER SERVICEABLE PARTS. COORDINATE DOOR IN FIELD AFTER INSTALLATION OF EQUIPMENT AND DUCTING INSIDE CLOSET.
I. SEE INTERIOR ELEVATIONS FOR CASEWORK, TYPICAL.
J. ALL INTERIOR AND EXTERIOR WALLS ARE TO EXTEND TO STRUCTURAL FRAMING ABOVE, EXCEPT AT ATTIC LOCATIONS.

FLOOR PLAN NOTES

1. WHITEBOARD(S), SEE INTERIOR ELEVATIONS.
2. TRANSITION STRIP, SEE DETAIL 18/A6.1
3. CASED OPENING, SEE DETAIL 19/A6.1
4. TEACHER'S DESK, FOR REFERENCE.
5. 30X48 CLEAR SPACE IN FRONT OF WINDOW WITH ACCESSIBLE OPERATOR, SEE WINDOW TYPES, DETAIL 1/A6.2.
6. ACCESSIBLE SINK IN BASE CABINET, SEE DETAIL 3/A6.4
7. OUTDOOR CONDENSING UNIT ON CONCRETE PAD, SEE MECHANICAL DRAWINGS AND DETAIL 1/A0.6
8. DIMMABLE LIGHT SWITCH FOR CALM ROOM.
9. DOWNSPOUT, SEE DETAIL 5/A9.3. SEE CIVIL DRAWINGS FOR CONNECTION TO UNDERGROUND DRAIN.
10. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT.
11. ACCESS LADDER, SEE DETAIL 18 / A9.5.

GRAPHIC KEY

- STUD WALL, SEE WALL TYPES.
- 1-HR RATED FIRE BARRIER, SEE WALL TYPES.
- WALK-OFF MAT
- 1-1/2" RECESSED SLAB-ON-GRADE FOR FLOOR TILE OVER MORTAR BED. SEE STRUCTURAL DRAWINGS.
- FIRE EXTINGUISHER IN SEMI-RECESSED CABINET, SEE DETAIL 15/A9.6.
- DOOR MANEUVERING CLEARANCE, SEE DETAIL 1/A6.1
- TACTILE DOOR SIGN, SEE DOOR SCHEDULE
- # WALL TYPE, SEE SHEET A9.1
- 5'-0" Ø WHEELCHAIR TURNING SPACE.
- 30" X 48" CLEAR SPACE
- 80a DOOR TAG, REFER TO DOOR SCHEDULE ON SHEET A6.1.
- W1a WINDOW TYPE, REFER TO WINDOW TYPES DETAIL 1/A6.2.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

FLOOR PLAN

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

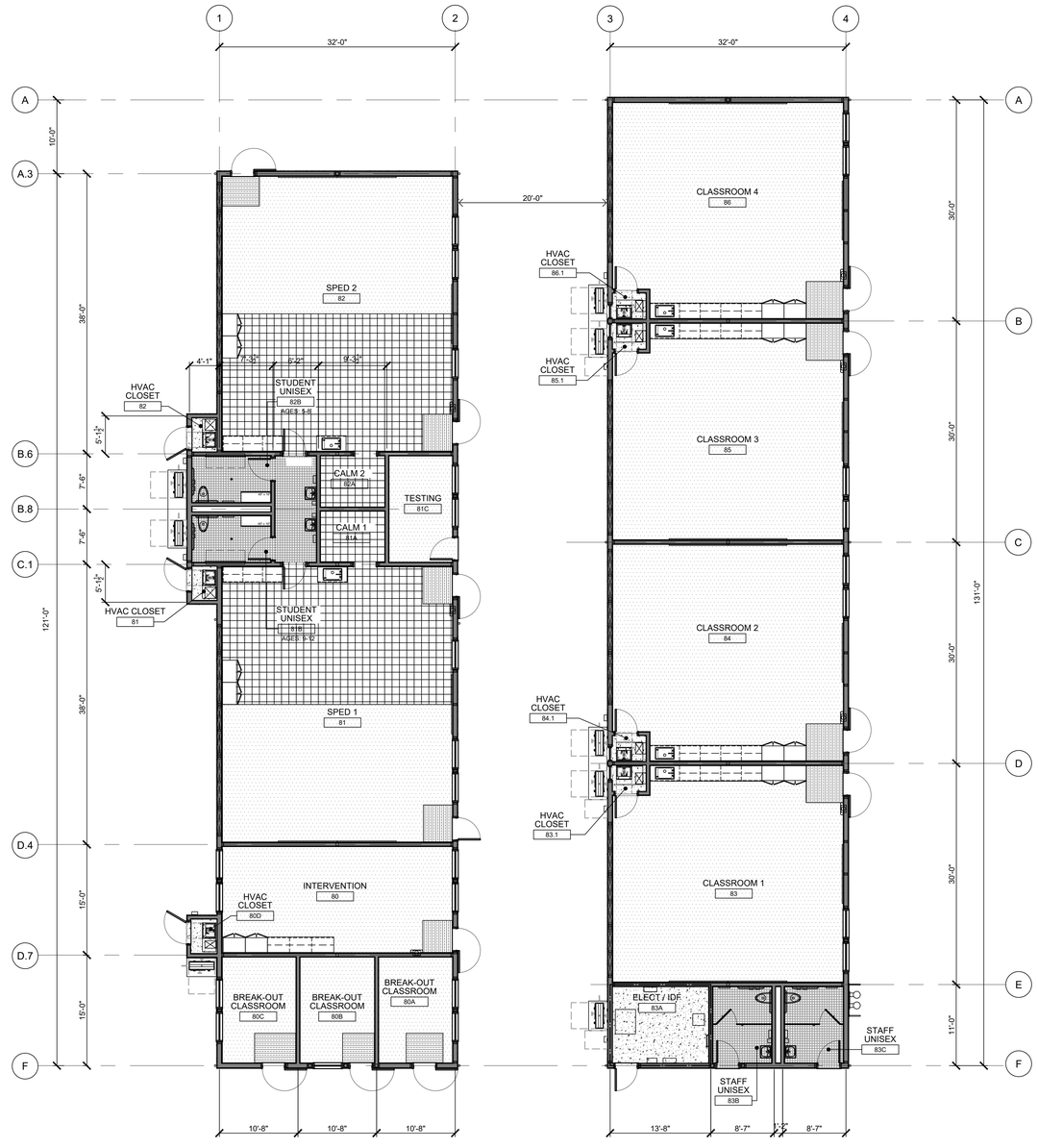
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A2.1

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GENERAL NOTES

A. PROVIDE TRANSITION STRIP PER DETAIL 18/A6.1 AT FLOOR TRANSITIONS.
B. SEE DETAIL 14/A6.1 FOR TRANSITION STRIP FROM TILE TO RESILIENT FLOORING.
C. SEE SPECIFICATIONS FOR CONCRETE MOISTURE-VAPOR CONTROL SYSTEM TO PREP FOR RESILIENT FLOORING AND CARPET INSTALLATION.



BUILDING 060A

BUILDING 060B

1 FLOORING LAYOUT

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

REF NORTH TRUE NORTH

GRAPHIC KEY

- STUD WALL
- 1-HR FIRE RATED WALL, SEE WALL TYPES.
- WALK-OFF MAT, SEE SPECIFICATIONS.
- 24" X 24" MODULAR CARPET TILES IN HORIZONTAL BRICK ASHLAR PATTERN, SEE SPECIFICATIONS.
- RESILIENT FLOORING, SEE SPECIFICATIONS.
- CERAMIC FLOOR TILES OVER MORTAR BED, SLOPED TO DRAIN.
- SEALED CONCRETE.

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NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

FLOORING LAYOUT

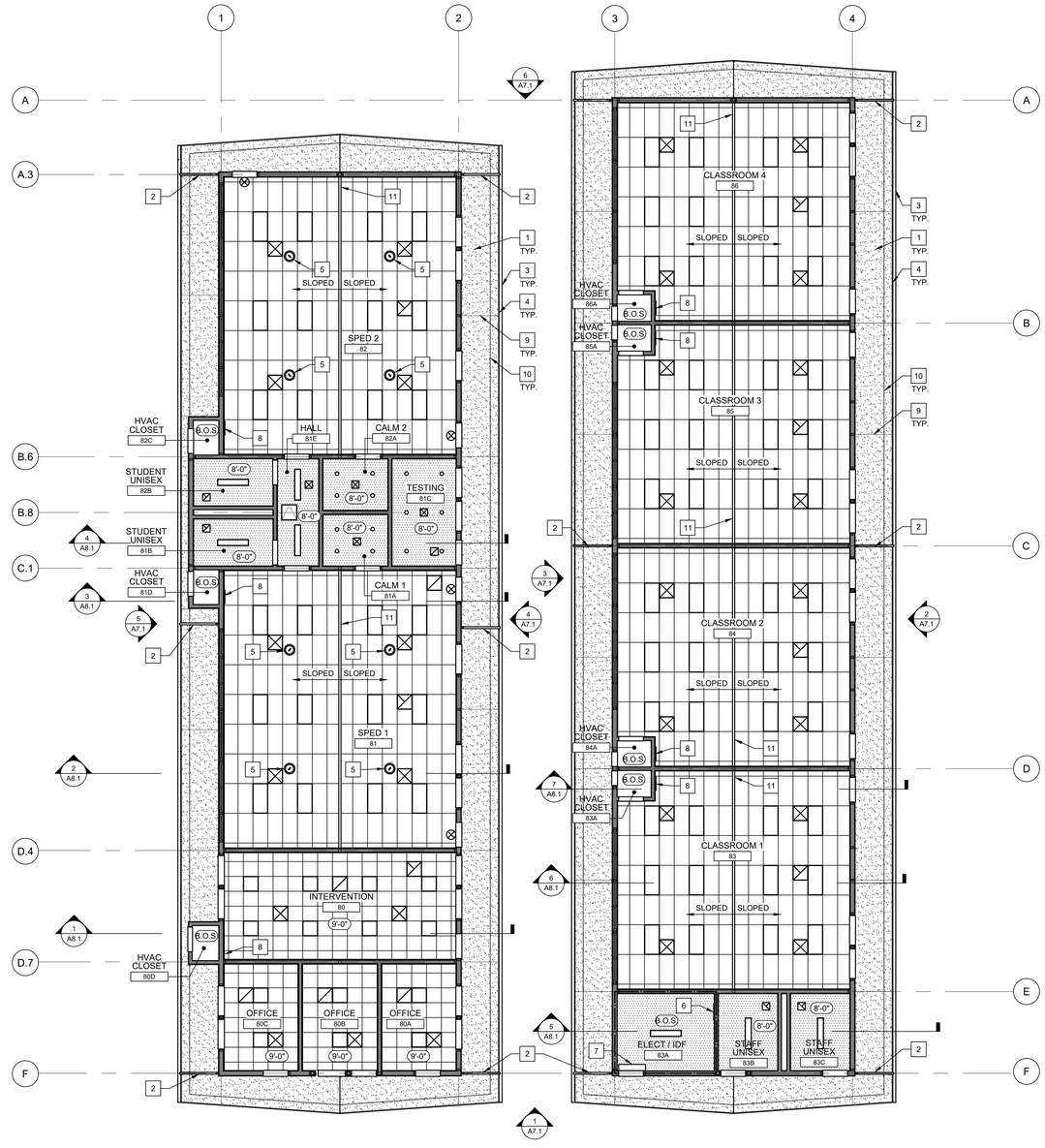
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

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1 REFLECTED CEILING PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

GENERAL NOTES

A. FINAL LOCATIONS OF CEILING ACCESS HATCH IN GYPSUM BOARD CEILINGS TO BE VERIFIED IN FIELD.

REFLECTED CEILING PLAN NOTES

1. CEMENT PLASTER SOFFIT ASSEMBLY, PAINTED. SEE DETAILS 7 & 8/A9.3
2. DOWNSPOUT, PAINTED. SEE DETAIL 5/A9.3
3. GUTTER, PRE-FINISHED. SEE DETAIL 1/A9.4
4. FASCIA, PAINTED.
5. SOLATUBE GLASS LENS IN SUSPENDED CEILING GRID. SEE DETAIL 13/A9.4.
6. WALL MOUNTED ATTIC ACCESS PANEL, 24" X 30". SEE DETAIL 14/A9.5
7. WALL MOUNTED INDOOR COOLING UNIT, SEE MECHANICAL DRAWINGS.
8. SIDE WALL RETURN REGISTER, SEE MECHANICAL DRAWINGS.
9. CEMENT PLASTER CONTROL JOINT.
10. 1" WIDE CONTINUOUS SOFFIT VENT.
11. RIDGE AT SUSPENDED CEILING, SEE DETAIL 4/A9.5 AND STRUCTURAL DRAWINGS.

GRAPHIC KEY

- STUD WALL
- 1-HR FIRE RATED WALL, SEE WALL TYPES.
- INDICATES 2X4 ACOUSTICAL CEILING GRID SEE SHEET A9.5
- INDICATES 2X2 ACOUSTICAL CEILING GRID W/ SCORED CEILING TILES, SEE SHEET A9.5
- INDICATES HARD-LID GYPSUM BOARD CEILING, PAINTED.
- INDICATE CEMENT PLASTER EXTERIOR SOFFIT, PAINTED. SEE DETAILS 7 & 8/A9.3
- INDICATES CEILING ACCESS HATCH SEE DETAIL 16/A9.5
- ROUND SOLATUBE LENS SEE DETAIL 10/A9.4
- 6.O.S INDICATES BOTTOM OF STRUCTURE, EXPOSED

MECHANICAL - SEE MECHANICAL DRAWINGS

- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- EXHAUST GRILLE

ELECTRICAL - SEE ELECTRICAL DRAWINGS

- EXIT SIGN
- SD SMOKE DETECTOR
- SURFACE MOUNTED LIGHT FIXTURE
- 2' X 4' LAY-IN LIGHT FIXTURE
- 2' X 2' LAY-IN LIGHT FIXTURE

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REFLECTED CEILING PLAN

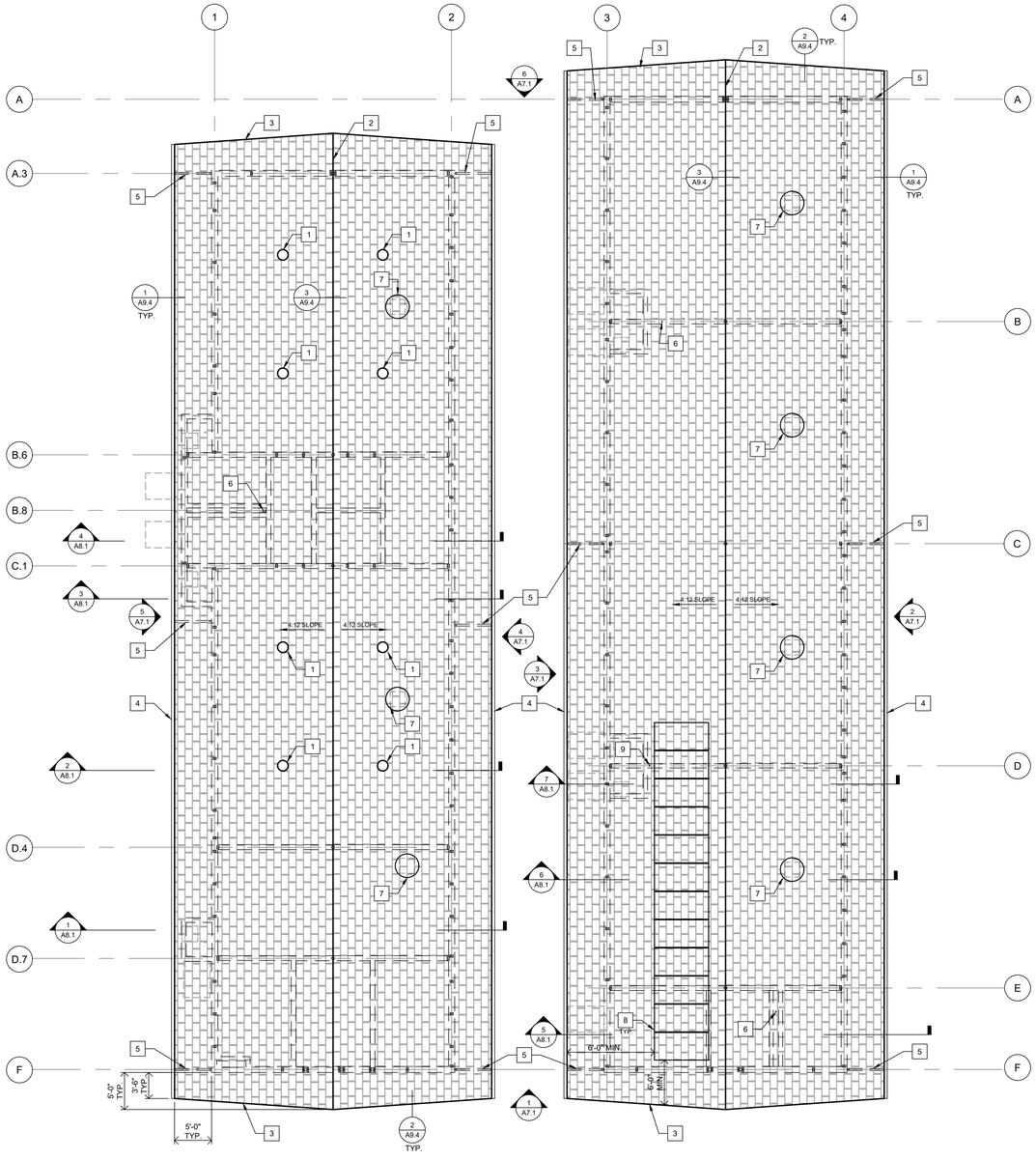
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BUILDING 060A BUILDING 060B

1 ROOF PLAN

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

REF NORTH TRUE NORTH

GENERAL NOTES

A. SEE STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF OTHER RELATED WORK.
B. PER BUILDING ENERGY REPORT, THE ROOF FRAMING SHALL HAVE A MINIMUM R-38 INSULATION.
C. THE ROOF SYSTEM SHALL HAVE CLASS A FIRE RATING.
D. ALL ROOFING PENETRATIONS SHALL BE FLASHED. SEE DETAIL 4/A9.4 FOR FLASHING AT PIPE THRU ROOF.
E. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN WATER TIGHTNESS AND PROVIDE PROTECTION AT ANY/ALL OPENINGS IN THE ROOF LEFT AT THE END OF EACH CONSTRUCTION DAY.

ROOF PLAN NOTES

1. SOLATUBE, SEE DETAIL 13/A9.4
2. RIDGE, SEE DETAIL 3/A9.4
3. RAKE, SEE DETAIL 2/A9.4
4. EAVE WITH GUTTER, SEE DETAIL 1/A9.4
5. DOWNSPOUT, SEE DETAIL 5/A9.3
6. VENT THRU ROOF, SEE PLUMBING DRAWINGS AND DETAIL 4/A9.4
7. VENTILATOR, SEE MECHANICAL DRAWINGS.
8. PV PANEL, SEE ELECTRICAL DRAWINGS.
9. VENT THRU ROOF, SEE PLUMBING DRAWINGS AND DETAIL 4/A9.4. COORDINATE LOCATION TO NOT CONFLICT WITH PV PANELS.

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LICENSED ARCHITECT MARK C. FINNEY NO. C-24073 REN. 9-30-27 STATE OF CALIFORNIA

ROOF PLAN

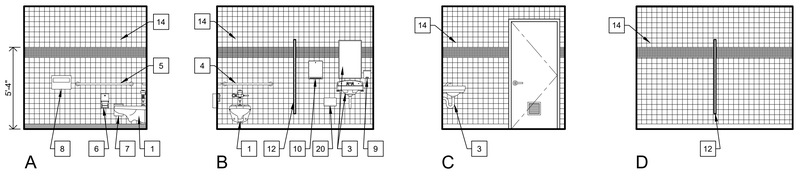
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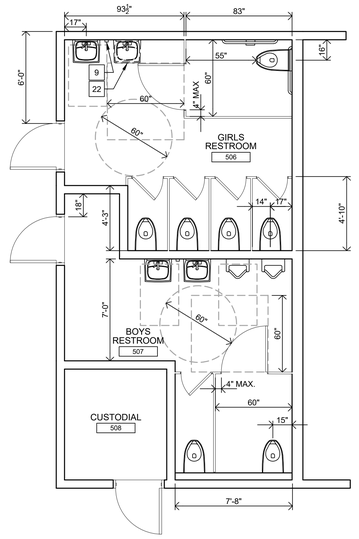
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6 INTERIOR ELEVATIONS
STAFF RESTROOMS

1/4" = 1'-0"

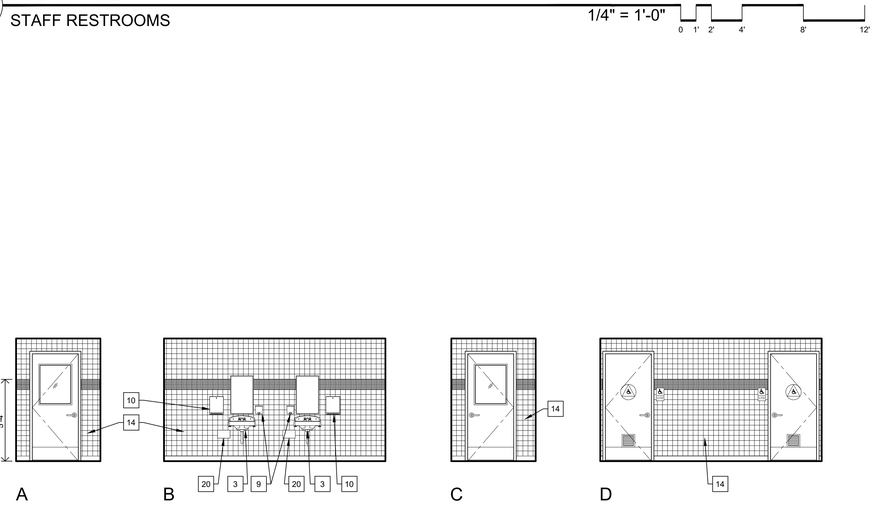
0 1' 2' 4' 8' 12'



3 ENLARGED FLOOR PLAN
EXISTING BOYS & GIRLS RESTROOM - BUILDING 050

1/4" = 1'-0"

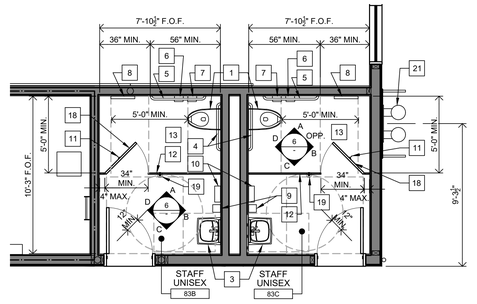
0 1' 2' 4' 8' 12'



5 INTERIOR ELEVATIONS
AT HALLWAY

1/4" = 1'-0"

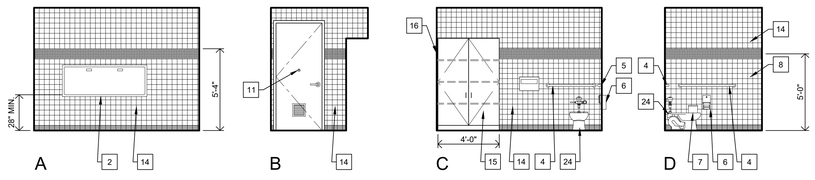
0 1' 2' 4' 8' 12'



2 ENLARGED FLOOR PLAN
AT STAFF RESTROOMS - BUILDING 060B

1/4" = 1'-0"

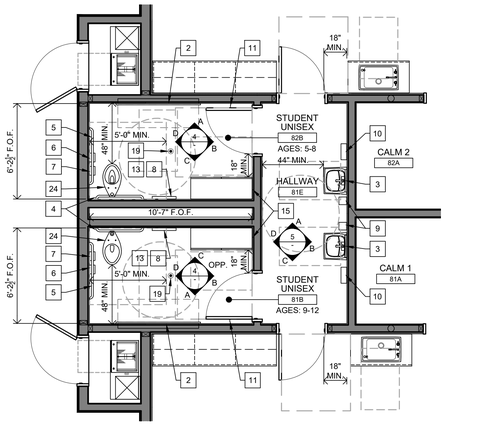
0 1' 2' 4' 8' 12'



4 INTERIOR ELEVATIONS
STUDENT RESTROOMS

1/4" = 1'-0"

0 1' 2' 4' 8' 12'



1 ENLARGED FLOOR PLAN
AT STUDENT RESTROOMS - BUILDING 060A

1/4" = 1'-0"

0 1' 2' 4' 8' 12'

GENERAL NOTES

A. SEE MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE ALARM DRAWINGS FOR EXTENT OF OTHER RELATED WORK.
B. SEE PLUMBING DRAWINGS FOR PLUMBING FIXTURES SCHEDULE
C. RESTROOM ACCESSORIES SHALL BE MOUNTED TO BLOCKING AND/OR WALL STUDS. SEE DETAIL 2/A6.4 FOR BLOCKING INFO. SEE DETAIL 5/A9.6 FOR ACCESSIBLE FIXTURE DIMENSIONS.

SHEET NOTES

1. ACCESSIBLE WALL MOUNTED TOILET, SEE PLUMBING DRAWINGS AND DETAIL 10/A9.6 FOR ANCHORAGE.
2. RECESSED FOLD-UP CHANGING TABLE, SEE DETAIL 16/A9.6
3. ACCESSIBLE WALL MOUNTED LAVATORY AND STAINLESS STEEL CHANNEL FRAMED MIRROR. SEE PLUMBING DRAWINGS, AND DETAILS 8 AND 9/A9.6 FOR ANCHORAGE.
4. 36" GRAB BAR, SEE DETAIL 4/A9.6 FOR ANCHORAGE.
5. 42" GRAB BAR, SEE DETAIL 4/A9.6 FOR ANCHORAGE.
6. TOILET PAPER DISPENSER. O.F.C.I.
7. SANITARY NAPKIN DISPOSAL.
8. TOILET SEAT COVER DISPENSER.
9. SOAP DISPENSER. O.F.C.I.
10. PAPER TOWEL DISPENSER. O.F.C.I.
11. COAT / BAG HOOK.
12. TOILET PARTITION, SEE DETAIL 17/A9.6 FOR ANCHORAGE.
13. CERAMIC FLOOR TILE, SEE FINISH SCHEDULE.
14. CERAMIC WALL TILE WITH ACCENT BAND, SEE FINISH SCHEDULE. COVE BASE TO BE A DIFFERENT COLOR. FULL BULLNOSE TILES AT ALL OUTSIDE CORNERS. LOCATE CUT TILE ROW ADJACENT TO COVE BASE.
15. 16" DEEP TALL CABINET WITH DOUBLE DOORS IN HIGH PRESSURE LAMINATE. SEE SIMILAR DETAIL 9/A6.4 FOR ANCHORAGE.
16. CASEWORK SCRIBE.
17. 34" WIDE MINIMUM PARTITION DOOR.
18. COAT HOOK / BUMPER, SUPPLIED BY TOILET PARTITION MANUFACTURER.
19. FLOOR DRAIN, SEE PLUMBING DRAWINGS.
20. TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS.
21. ACCESSIBLE DRINKING FOUNTAIN, SEE DETAIL 7/A9.6.
22. REMOVE EXISTING SINK, FIXTURES, AND EXPOSED PLUMBING, SALVAGE TO OWNER. CAP ALL PLUMBING AT FACE OF WALL. CLEAN EXISTING TILE AROUND SINK AREA AND REMOVE ALL CAULKING.
23. REPLACE EXISTING HOSE BIB IN KIND.
24. ACCESSIBLE FLOOR MOUNT TOILET, SEE PLUMBING DRAWINGS.

GRAPHIC KEY

(N) STUD WALL
(E) STUD WALL

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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

ENLARGED RESTROOM FLOOR PLANS
AND INTERIOR ELEVATIONS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

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24149 DSA V3 SUBMITTAL: 06-12-26

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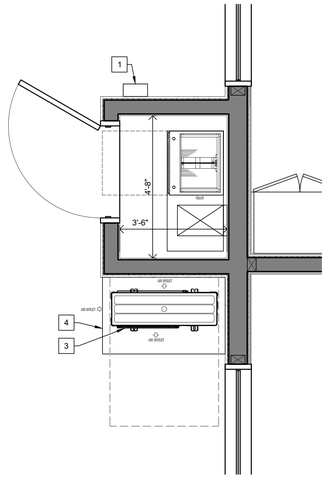
GENERAL NOTES

A. SEE STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF OTHER RELATED WORK.

B. AIR HANDLING UNIT IN HVAC CLOSET SHALL BE LOCATED IN FRONT OF CLOSET DOOR FOR SERVICE ACCESS AND MAINTENANCE. ENSURE ACCESS IS PROVIDED FOR FILTER REPLACEMENT AND/OR ACCESS TO OTHER SERVICEABLE PARTS. LOCATION OF DOOR SHALL BE VERIFIED IN FIELD.

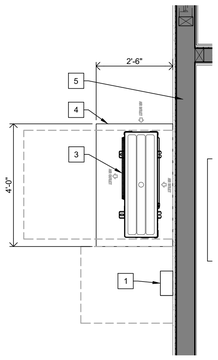
SHEET NOTES

1. POWER DISCONNECT ON WALL.
2. FENCING, SEE ENLARGED SITE PLAN SHEET A0.21.
3. OUTDOOR HEAT PUMP UNIT, SEE MECHANICAL DRAWINGS.
4. CONCRETE PAD, SEE DETAIL 1/A0.6
5. WALL LOUVER. SEE MECHANICAL DRAWINGS AND DETAILS 15 & 16/A6.2



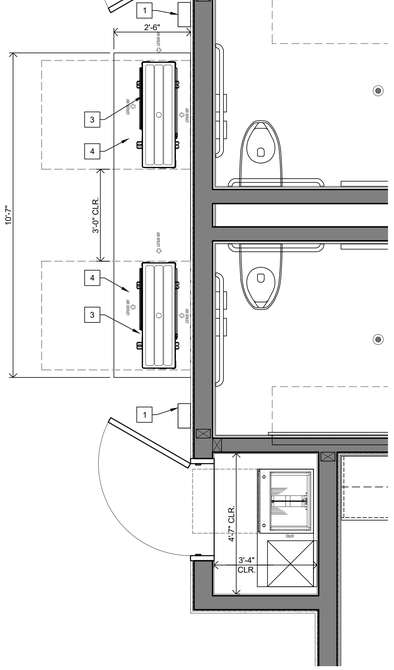
4 ENLARGED HVAC CLOSET AT INTERVENTION AND OFFICES

1/2" = 1'-0"



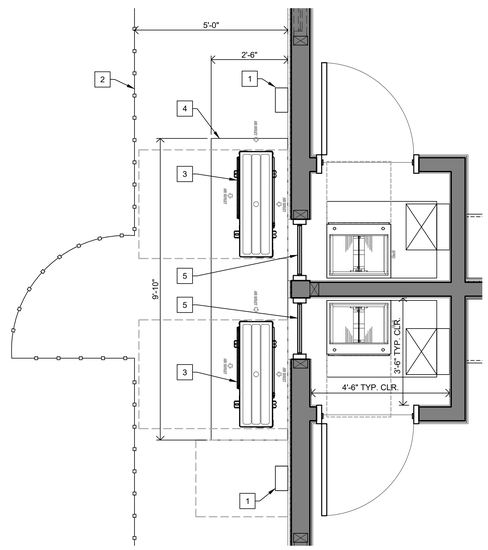
2 ENLARGED HVAC CLOSET

1/2" = 1'-0"



3 ENLARGED HVAC CLOSET AT SPED CLASSROOMS

1/2" = 1'-0"



1 ENLARGED HVAC CLOSET AT TYPICAL CLASSROOMS

1/2" = 1'-0"

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ENLARGED PLANS AT HVAC CLOSETS

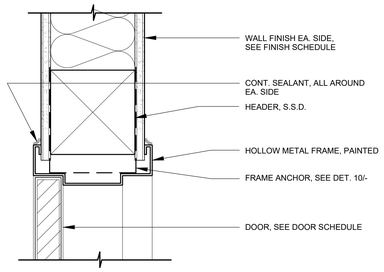
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REVISIONS

NO.	ITEM	DATE

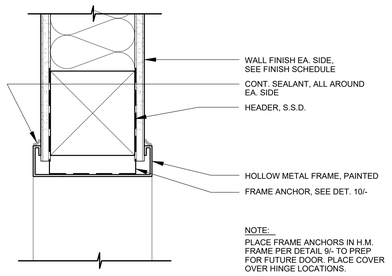
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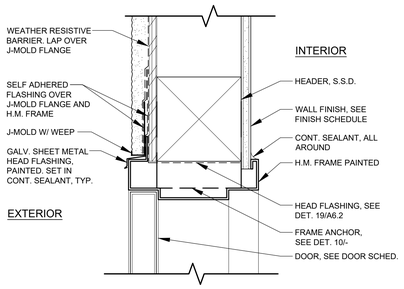
16 INTERIOR DOOR HEAD (JAMB SIM.) @ H.M. FRAME

3"=1'-0"



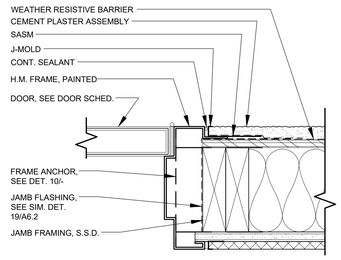
19 CASED OPENING (JAMB SIM.)

H.M. FRAME 3"=1'-0"



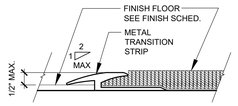
15 EXTERIOR DOOR HEAD

HOLLOW METAL FRAME 3"=1'-0"



11 EXTERIOR DOOR HEAD JAMB

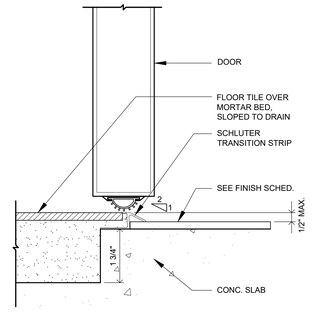
HOLLOW METAL FRAME 3"=1'-0"



NOTES:
1. PROVIDE A CONTINUOUS TRANSITION STRIP AT FLOOR MATERIAL TRANSITIONS WHERE CHANGE IN LEVEL IS GREATER THAN 1/4" IN HEIGHT. PER CBC 11B-303.2, EDGE TREATMENT IS NOT REQUIRED IF LEVEL CHANGE IS 1/4" OR LESS.
2. PER CBC 11B-303.3, TRANSITION STRIPS WITH A BEVELED SLOPE SHALL NOT EXCEED A 1:2 MAX SLOPE AT CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM, TYP.

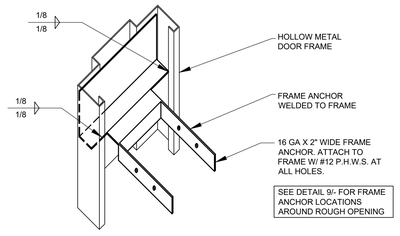
18 TYPICAL TRANSITION STRIP

1'-0"=1'-0"



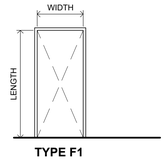
14 RESTROOM TILE THRESHOLD

INTERIOR 6"=1'-0"



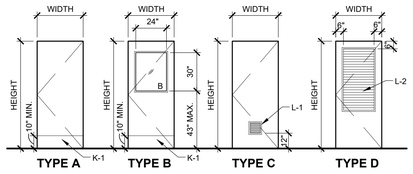
10 TYP. FRAME ANCHOR

N.T.S.



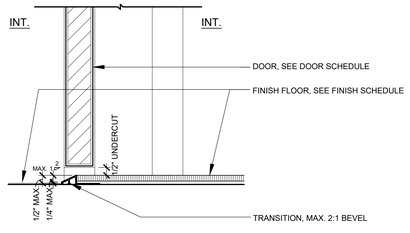
6 DOOR FRAME TYPES

1/4"=1'-0"



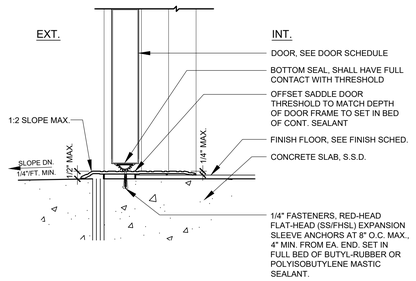
2 DOOR TYPES

1/4"=1'-0"



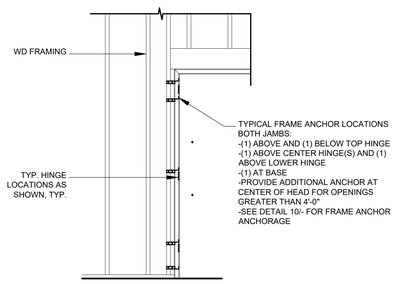
17 INTERIOR DOOR THRESHOLD

3"=1'-0"



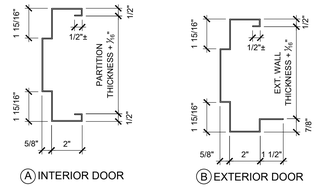
13 EXTERIOR DOOR THRESHOLD

3"=1'-0"



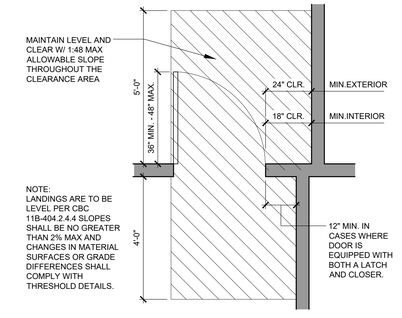
9 FRAME ANCHOR LOCATIONS

1/2"=1'-0"



5 HOLLOW METAL FRAMES

3"=1'-0"



1 TYP. DOOR CLEARANCES

1/2"=1'-0"

7 DOOR SCHEDULE

DOOR AND SIGN SCHEDULE

ROOM NAME	DOOR					DOOR FRAME			FIRE RATING	DETAILS			DOOR HARDWARE GROUP (SEE SPECS)	DOOR SIGNAGE (SEE DETAIL 7/A6.3 U.O.N.)		REMARKS
	TAG	SIZE (WIDTH X HEIGHT X THICK.)	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH		HEADER	JAMB	THRES.		TYPES	TEXT	
INTERVENTION	80a	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	01	F	INTERVENTION	1
BREAK-OUT CLASSROOM	80Aa	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	03	E	80A	3
BREAK-OUT CLASSROOM	80Ba	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	03	E	80B	3
BREAK-OUT CLASSROOM	80Ca	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	03	E	80C	3
HVAC CLOSET	80Da	3'-0" X 7'-0" X 1-3/4"	D	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	06	-	-	-
SPED 1	81a	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	02	F, G	SPED 81, EXIT	1, 2
SPED 1	81b	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	01	F, G	SPED 81, EXIT	1, 2
CALM 1	-	-	-	-	-	F1	HM	PTD	-	-	-	-	-	-	-	4
CALM 1	-	-	-	-	-	F1	HM	PTD	-	-	-	-	-	-	-	4
STUDENT UNISEX	81Ba	3'-0" X 7'-0" X 1-3/4"	C	WD	CLR	F1	HM	PTD	-	16/-	16/- (SIM.)	-	09	A, B	UNISEX RESTROOM	2
TESTING	81Ca	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	04	E	81C	-
HVAC CLOSET	81Da	3'-0" X 7'-0" X 1-3/4"	D	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	06	-	-	-
VESTIBULE	81Ea	3'-0" X 7'-0" X 1-3/4"	B	WD	CLR	F1	HM	PTD	-	16/-	16/- (SIM.)	14/-	08	F	RESTROOM	
VESTIBULE	81Eb	3'-0" X 7'-0" X 1-3/4"	B	WD	CLR	F1	HM	PTD	-	16/-	16/- (SIM.)	14/-	08	F	RESTROOM	
SPED 2	82a	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	01	F, G	SPED 82, EXIT	1, 2
SPED 2	82b	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	01	F, G	SPED 82, EXIT	1, 2
STUDENT UNISEX	82Ba	3'-0" X 7'-0" X 1-3/4"	C	WD	CLR	F1	HM	PTD	-	16/-	16/- (SIM.)	-	09	A, B	UNISEX RESTROOM	2
HVAC CLOSET	82Ca	3'-0" X 7'-0" X 1-3/4"	D	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	06	-	-	-
CLASSROOM 1	83a	3'-0" X 7'-0" X 1-3/4"	B	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	01	E	83	1, 3
HVAC CLOSET	83.1a	3'-0" X 7'-0" X 1-3/4"	A	WD	CLR	F1	HM	PTD	-	16/-	16/- (SIM.)	17/-	10	-	-	-
ELECT / IDF	83Aa	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	06	F	ELECTRICAL / IDF	1, 2, 3
STAFF UNISEX	83Ba	3'-0" X 7'-0" X 1-3/4"	C	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	07	A, B	STAFF RESTROOM	2, 3
STAFF UNISEX	83Ca	3'-0" X 7'-0" X 1-3/4"	C	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	07	A, B	STAFF RESTROOM	2, 3
CLASSROOM 2	84a	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	01	E	84	1, 3
HVAC CLOSET	84.1a	3'-0" X 7'-0" X 1-3/4"	A	WD	CLR	F1	HM	PTD	-	16/-	16/- (SIM.)	17/-	10	-	-	-
CLASSROOM 3	85a	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	01	E	85	1, 3
HVAC CLOSET	85.1a	3'-0" X 7'-0" X 1-3/4"	A	WD	CLR	F1	HM	PTD	-	16/-	16/- (SIM.)	17/-	10	-	-	-
CLASSROOM 4	86a	3'-0" X 7'-0" X 1-3/4"	A	HM	PTD	F1	HM	PTD	-	15/-	11/-	13/-	01	E	86	1, 3
HVAC CLOSET	86.1a	3'-0" X 7'-0" X 1-3/4"	A	WD	CLR	F1	HM	PTD	-	16/-	16/- (SIM.)	17/-	10	-	-	-
ADMIN. OFFICE	N/A	(E)	(E)	WD	(E)	(E)	WD	(E)	-	-	-	-	11	-	-	5

NOTES:
1. DOOR LEVERS ARE TO BE 38" ABOVE FINISH FLOOR.
2. PER 11B-404.2.9, THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
   A. INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM.
   B. EXTERIOR HINGED DOORS: 5 POUNDS MAXIMUM.
3. CLASSROOM DOORS SHALL SWING 180°.
4. ALL DOORS TO ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 5 OR MORE SHALL BE EQUIPPED WITH HARDWARE THAT IS LOCKABLE FROM THE INSIDE PER CBC 1010.2.8.2.
5. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

REMARKS
1. PANIC HARDWARE
2. SIGNAGE TEXT ON 2 LINES.
3. MINIMUM OVERALL U-FACTOR OF DOOR: 0.50
   BASIS OF DESIGN:
   TECH 302 BY METAL PRODUCTS, INC.
   U-FACTOR: 0.38
4. FRAME ONLY, PREPPED FOR FUTURE DOOR WITH HINGE MORTISES, WITH REMOVABLE BLOCK-OFF PLATE TO COMPLETELY INFILL MORTISE.
5. NEW HARDWARE ONLY TO REPLACE EXISTING.

LEGEND
HM HOLLOW METAL
PTD PAINTED
WD SOLID WOOD
CLR CLEAR FINISH/STAIN
(E) EXISTING

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

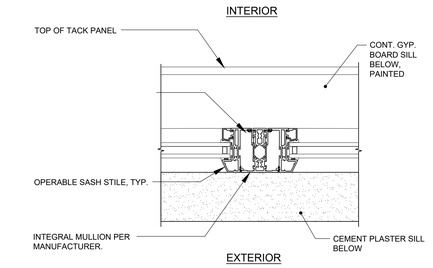
DOOR SCHEDULE AND DOOR DETAILS
SIGN SCHEDULE

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

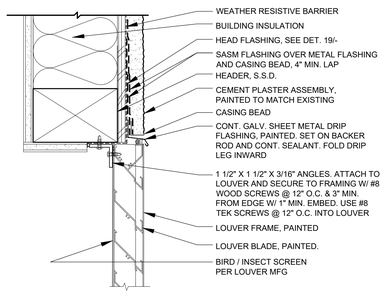
REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-12-26

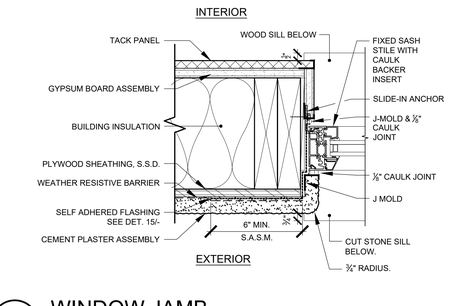
A6.1



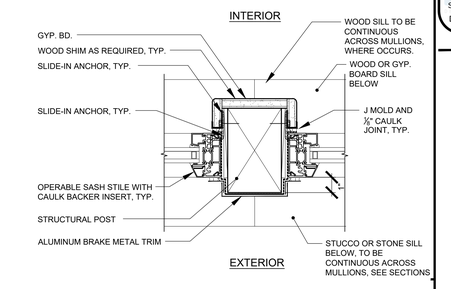
16 NON-STRUCTURAL MULLION
AT PROJECT-IN HOPPER 3"=1'-0"



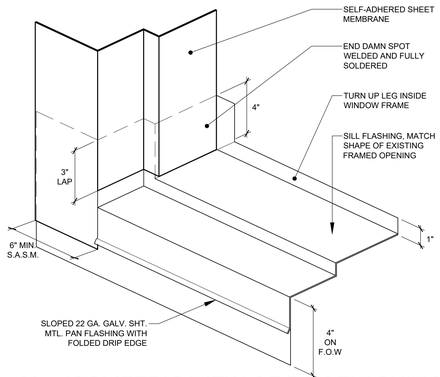
12 LOUVER SECTION
AT SILL 3"=1'-0"



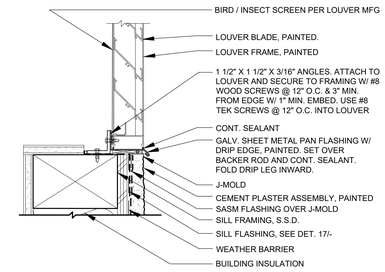
8 WINDOW JAMB
AT FIXED SASH 3"=1'-0"



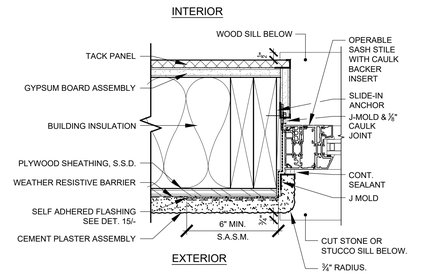
4 WINDOW JAMB AT STRUCT. MULLION
AT FIXED & OPERABLE SASH 3"=1'-0"



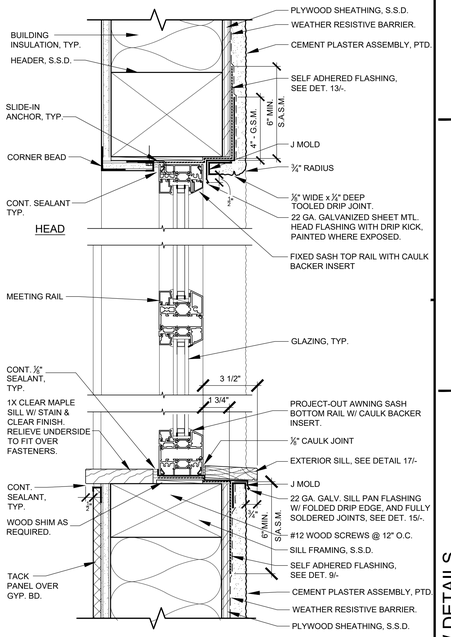
15 ISOMETRIC VIEW OF PAN FLASHING
N.T.S.



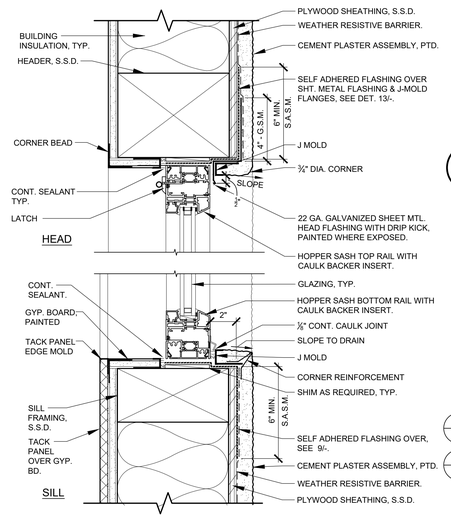
11 LOUVER SECTION
AT SILL 3"=1'-0"



7 WINDOW JAMB
AT OPERABLE SASH 3"=1'-0"



2 WINDOW - VERTICAL SECTION
AT PROECT-OUT AWNING & FIXED 3"=1'-0"



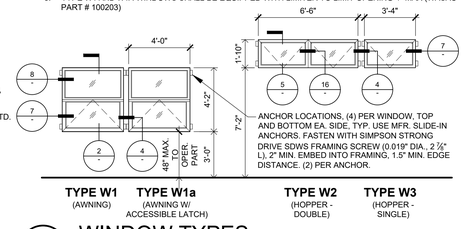
5 WINDOW - VERTICAL SECTION
AT PROJECT-IN HOPPER 3"=1'-0"

LEGEND:

CLEAR GLASS

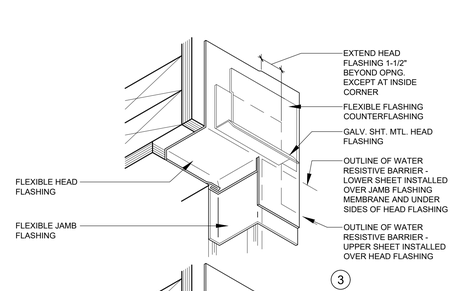
GENERAL NOTES:

1. SEE SPECIFICATIONS FOR GLAZING TYPE.
2. WINDOW HARDWARE AT TYPE W1a WINDOW SHALL COMPLY W/ CBC 11B-308 & 309.
3. THE ACCESSIBLE OPERABLE PART SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE OPERABLE PART SHALL BE 5 LBS. MAXIMUM.
4. MINIMUM OVERALL U-FACTOR OF WINDOWS: 0.3
5. WINDOWS SHALL HAVE A CERTIFIED NFRC LABEL CERTIFICATE.
6. TYPE W1 AND W1A WINDOWS SHALL BE EQUIPPED WITH LIMITER TO LIMIT OPENING 4" MAX (WASAU PART # 100203)

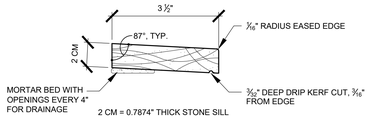


TYPE W1 (AWNING) **TYPE W1a** (AWNING W/ ACCESSIBLE LATCH) **TYPE W2** (HOPPER - DOUBLE) **TYPE W3** (HOPPER - SINGLE)

1 WINDOW TYPES
1/4"=1'-0"

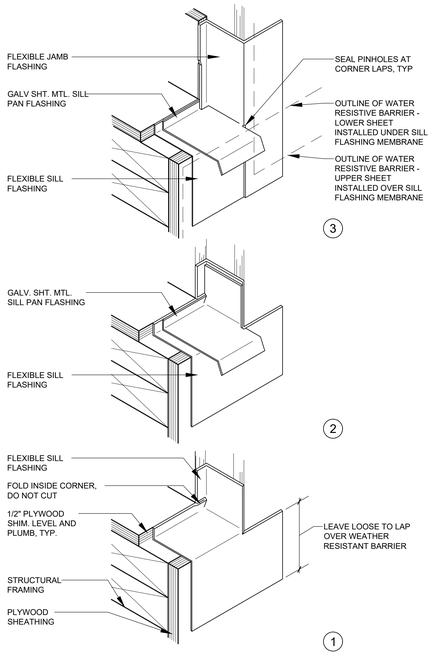


17 EXTERIOR SILL DETAIL
AT PROECT-OUT AWNING WINDOWS 6"=1'-0"



NOTES:
1. STONE MATERIAL SHALL BE NATURAL GRANITE, IN THICKNESS SHOWN, WITH HONED FINISH. COLOR: CHARCOAL GRAY.
2. SUBMIT MATERIAL SAMPLES FOR ARCHITECT APPROVAL, 3" SQUARE MIN. SIZE AND FULL THICKNESS FOR COLOR SELECTION AND FINISH.
3. SUBMIT SAMPLE OF SHAPED SILL, 6" LONG MIN, FULL WIDTH AND IN THE SHAPE PER DETAIL.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EACH OPENING TYPE.
5. MOCKUP: CONTRACTOR SHALL CONSTRUCT FULL SCALE MOCKUP AT ONE OPENING FOR ARCHITECT REVIEW AND APPROVAL BEFORE PROCEEDING WITH REMAINING SCOPE.

13 HEAD FLASHING
SELF-ADHERED SHEET MEMBRANE N.T.S.



9 SILL FLASHING
SELF-ADHERED SHEET MEMBRANE N.T.S.

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(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
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PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
No. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

WINDOW TYPES AND WINDOW DETAILS

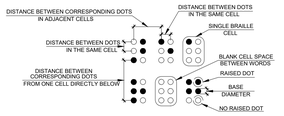
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-12-26

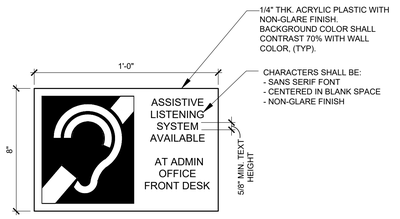
A6.2

TABLE 11B-703.3.1 BRAILLE DIMENSIONS	
MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 (1.5 mm) TO 0.063 (1.6 mm)
DISTANCE BETWEEN DOTS IN THE SAME CELL[1]	0.100 (2.5 mm)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS[1]	0.300 (7.6 mm)
DOT HEIGHT	0.025 (0.6 mm) TO 0.037 (0.9 mm)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW[1]	0.395 (10 mm) TO 0.400 (10.2 mm)
1. MEASURED CENTER TO CENTER.	



12 BRAILLE MEASURMENT DETAIL

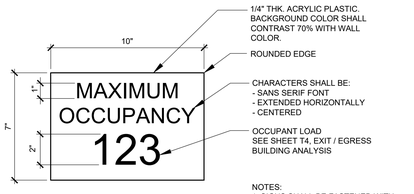
CBC 11B-703.3.1 6"=1'-0"



NOTES:
1. SIGN TO BE LESS THAN 60" MAX ABOVE FINISH FLOOR FROM BASE OF HIGHEST TEXT.
2. SEE ELECTRICAL DRAWINGS FOR SYSTEM REQUIREMENTS.

15 ASSISTIVE LISTENING SIGN

SIGNAGE 3"=1'-0"

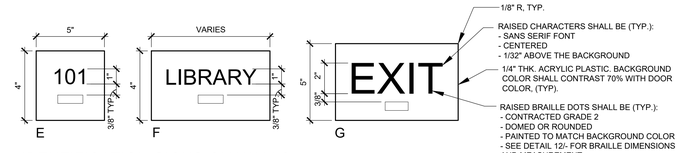


NOTES:
1. SIGNS SHALL BE FASTENED WITH ADHESIVE AND (3) FLATHEAD WOOD SCREWS INTO BLOCKING.
2. OCCUPANT LOAD SIGN IS REQUIRED IN ROOM WHEN OCCUPANT LOAD IS 50 OR MORE.
3. SIGN SHALL BE POSTED NEAR THE MAIN EXIT PER CBC 1004.9.
4. SIGN TO BE LESS THAN 60" MAX A.F.F. FROM BASE OF HIGHEST TEXT.

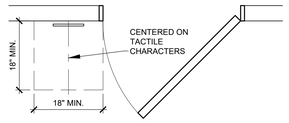
11 MAX. OCCUPANCY SIGN

3"=1'-0"

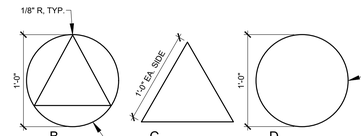
NOTES:
- ATTACH SIGNS USING (4) FLATHEAD WOOD SCREWS, COUNTERSUNK & WITH ADHESIVE.
- ALL EDGES TO BE ROUNDED.
- FOR MORE INFO. FOR TYP. IDENT. SIGNS, SEE CBC SEC. 11B-703.
- FOR MORE INFO. FOR EXIT SIGNS, SEE CBC SEC. 1013.4. AND 11B-703.



IDENTIFICATION SIGNS ON WALLS

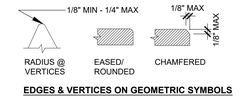


SIGN CLEARANCE ON WALLS



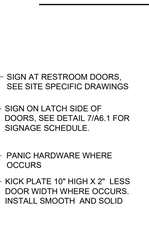
RESTROOM SIGNS ON DOORS

PER CBC 11B-703.7.2.6.4 - EDGES SHALL BE EASED OR ROUNDED AT 1/16" MINIMUM, OR CHAMFERED AT 1/8" MAXIMUM. VERTICES SHALL BE RADIUSED BETWEEN 1/8" MINIMUM AND 1/4" MAXIMUM.

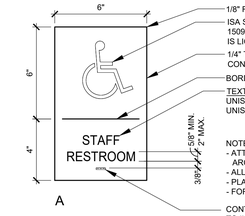


EDGES & VERTICES ON GEOMETRIC SYMBOLS

NOTES:
- ATTACH SIGNS USING 3M VHB DOUBLE SIDED TAPE, ALL AROUND PERIMETER.
- ALL EDGES TO BE ROUNDED.
- PLACE (1) SIGN AT EA. RESTROOM ENTRANCE.
- FOR MORE INFO., SEE CBC SEC. 11B-703.7.2.6.



DOOR SIGNAGE LOCATIONS



NOTES:
- ATTACH SIGNS USING 3M VHB DOUBLE-SIDED TAPE, ALL AROUND PERIMETER.
- ALL EDGES TO BE ROUNDED.
- PLACE (1) SIGN AT EA. RESTROOM ENTRANCE.
- FOR MORE INFO., SEE CBC SEC. 11B-703.7.2.6.

RESTROOM SIGNS ON WALLS

NOTE:
- SIGNS AND IDENTIFICATION REQUIRED BY SECTION 11B-703 AND 1013.4 OF THE CBC SHALL BE INSPECTED PER CBC 11B-703.1.1.2.

7 TYPICAL SIGNAGE

N.T.S.

FINISH SCHEDULE

ROOM NAME	ROOM #	FLOOR		WALLS								CEILING		REMARKS
				NORTH		EAST		SOUTH		WEST				
		FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
INTERVENTION	80	CPT	RB	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	ACT	-	1, 2
BREAK-OUT CLASSROOM	80A	CPT	RB	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	ACT	-	1, 2
BREAK-OUT CLASSROOM	80B	CPT	RB	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	ACT	-	1, 2
BREAK-OUT CLASSROOM	80C	CPT	RB	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	ACT	-	1, 2
HVAC CLOSET	80D	CS	RB	GB	PTD	GB	PTD	GB	PTD	GB	PTD	GB	PTD	4
SPED 1	81	CPT / RSF	RB	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	ACT	-	1, 2
CALM 1	81A	RSF	RB	GB	FRP	GB	FRP	GB	FRP	GB	FRP	GB	PTD	3
STUDENT UNISEX	81B	CT	CT	MB	CT	MB	CT	MB	CT	MB	CT	GB	PTD	5
TESTING	81C	CPT	RB	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD	1, 2
HVAC CLOSET	81D	CS	RB	GB	PTD	GB	PTD	GB	PTD	GB	PTD	GB	PTD	4
HALLWAY	81E	CT	CT	MB	CT	MB	CT	MB	CT	MB	CT	GB	PTD	5
SPED 2	82	CPT / RSF	RB	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	ACT	-	1, 2
CALM 2	82A	RSF	RB	GB	FRP	GB	FRP	GB	FRP	GB	FRP	GB	PTD	3
STUDENT UNISEX	82B	CT	CT	MB	CT	MB	CT	MB	CT	MB	CT	GB	PTD	5
HVAC CLOSET	82C	CS	RB	GB	PTD	GB	PTD	GB	PTD	GB	PTD	GB	PTD	4
CLASSROOM 1	83	CPT	RB	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	ACT	-	1, 2
HVAC CLOSET	83.1	CS	RB	GB	PTD	GB	PTD	GB	PTD	GB	PTD	GB	PTD	4
ELECT / IDF	83A	CS	RB	GB	PTD	GB	PTD	GB	PTD	GB	PTD	GB	PTD	
STAFF UNISEX	83B	CT	CT	MB	CT	MB	CT	MB	CT	MB	CT	GB	PTD	5
STAFF UNISEX	83C	CT	CT	MB	CT	MB	CT	MB	CT	MB	CT	GB	PTD	5
CLASSROOM 2	84	CPT	RB	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	ACT	-	1, 2
HVAC CLOSET	84.1	CS	RB	GB	PTD	GB	PTD	GB	PTD	GB	PTD	GB	PTD	4
CLASSROOM 3	85	CPT	RB	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	ACT	-	1, 2
HVAC CLOSET	85.1	CS	RB	GB	PTD	GB	PTD	GB	PTD	GB	PTD	GB	PTD	4
CLASSROOM 4	86	CPT	RB	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	GB	PTD / TWP	ACT	-	1, 2
HVAC CLOSET	86.1	CS	RB	GB	PTD	GB	PTD	GB	PTD	GB	PTD	GB	PTD	4

GENERAL NOTES:
A. EXPOSED GYPSUM BOARD SHALL BE PAINTED, TYPICAL.
B. WHERE INTERIOR PAINTING LOCATIONS ARE UNCLEAR, CLARIFY WITH ARCHITECT PRIOR TO START OF WORK.
C. PAINT ALL EXPOSED PIPES, CONDUITS, ETCETERA TO MATCH ADJACENT SURFACE.
D. PROVIDE VINYL COVERED ALUMINUM TRIM FOR TACKABLE WALL PANELS, TYPICAL.
E. SEE SHEET A2.2 FOR FLOORING LAYOUT.

REMARKS:
1. SEE SHEET A2.2 FOR FLOORING LAYOUT.
2. SEE INTERIOR ELEVATIONS FOR TACKABLE WALL PANEL LOCATIONS.
3. FULL HEIGHT FRP PANELS.
4. GYPSUM BOARD CEILING ATTACHED TO BOTTOM OF ROOF FRAMING.
5. ASSUME 3 WALL TILE COLORS, TBD.

LEGEND
ACT - ACOUSTICAL CEILING TILES IN SUSPENDED GRID
CB - CEMENT TILE BACKER BOARD
CPT - CARPET
CS - SEALED CONCRETE
CT - CERAMIC TILE
FRP - FIBERGLASS REINFORCED PLASTIC WALL PANEL, SMOOTH FINISH
GB - GYPSUM BOARD
MB - 7/8" MORTAR BED
PTD - PAINTED
RB - RUBBER WALL BASE
RSF - RESILIENT FLOORING
TWP - 1/2" THK. VINYL COVERED TACKABLE WALL PANELS

5 FINISH SCHEDULE

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DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
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DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

FINISH SCHEDULE AND DETAILS

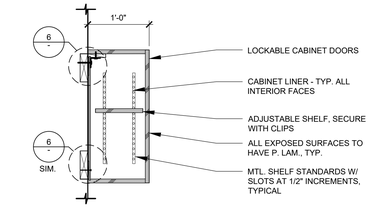
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: 24149
DATE: DSA V2 SUBMITTAL: 06-12-26

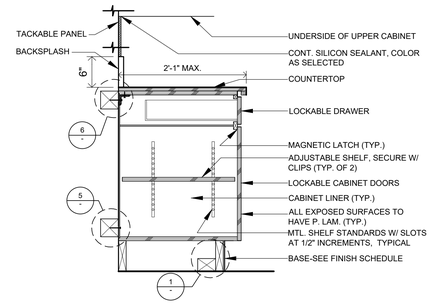
A6.3

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8 UPPER CABINET

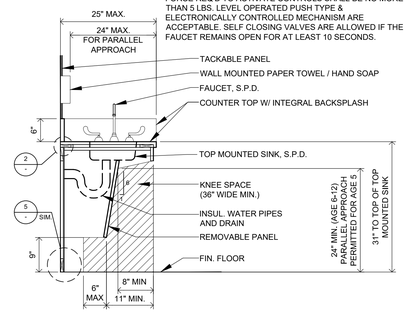
W/ HINGED DOORS 1"=1'-0"



7 TYPICAL BASE CABINET

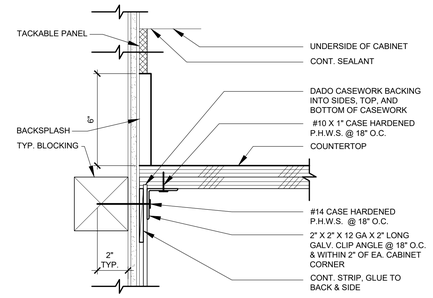
1"=1'-0"

NOTE:
FAUCET CONTROLS & OPERATING MECHANISMS SHALL BE OPERABLE W/ ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQ'D TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVEL OPERATED PUSH TYPE & ELECTRONICALLY CONTROLLED MECHANISM ARE ACCEPTABLE. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.



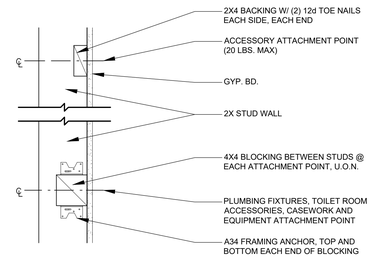
3 ACCESSIBLE CABINET W/ SINK

(AGES 5-12) 3/4"=1'-0"



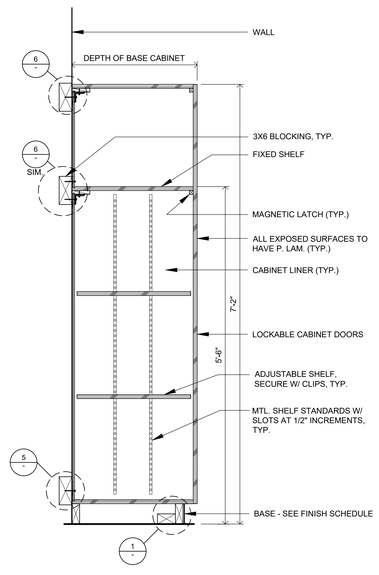
6 BASE CABINET FASTENING

3"=1'-0"



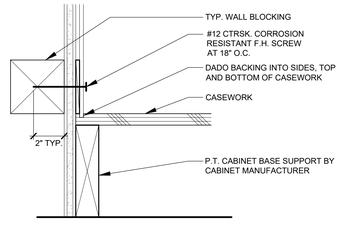
2 TYP. WALL BACKING/ BLOCKING

@ 2X STUD WALL 1-1/2"=1'-0"



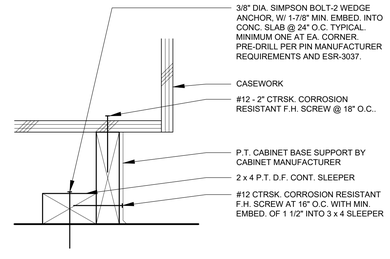
9 TALL CABINET

1"=1'-0"



5 CABINET ANCHORAGE

3"=1'-0"



1 CABINET ANCHORAGE

3"=1'-0"

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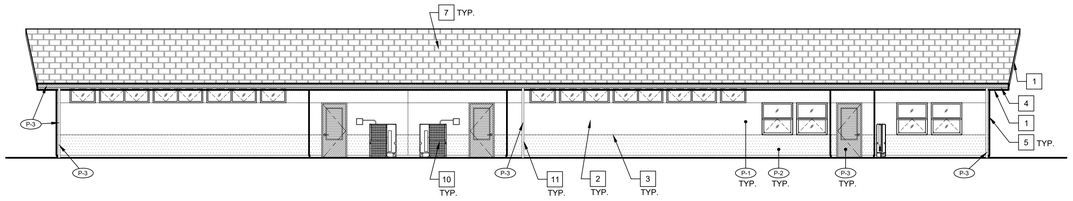
CASEWORK DETAILS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: DATE:
24149 DSA V2 SUBMITTAL: 06-12-26

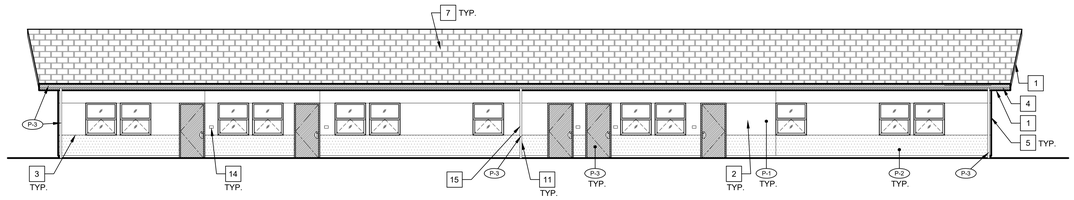
A6.4



5 WEST ELEVATION - 060A CLASSROOM WING

1/8" = 1'-0"

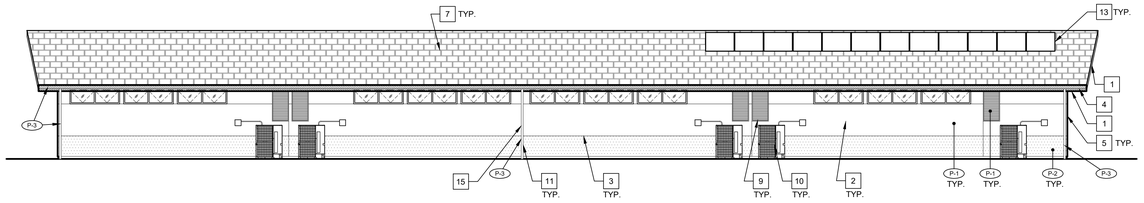
0 2' 4' 8' 16' 24'



4 EAST ELEVATION - 060A CLASSROOM WING

1/8" = 1'-0"

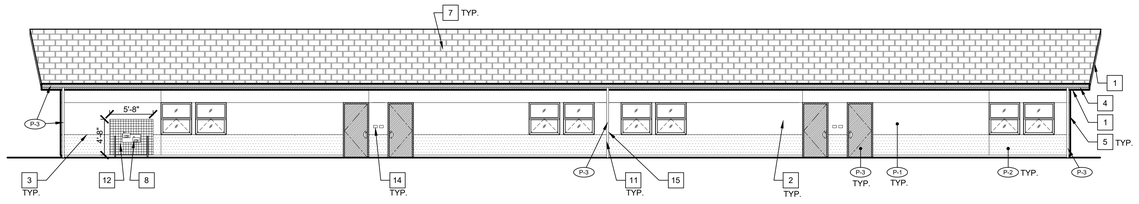
0 2' 4' 8' 16' 24'



3 WEST ELEVATION - 060B CLASSROOM WING

1/8" = 1'-0"

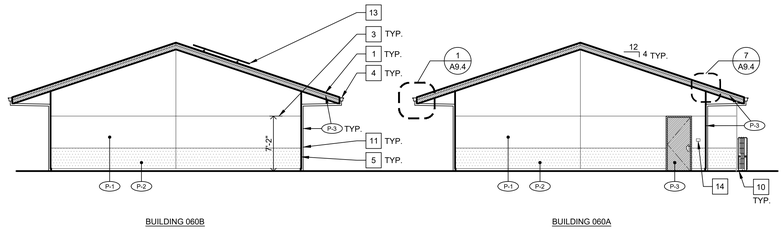
0 2' 4' 8' 16' 24'



2 EAST ELEVATION - 060B CLASSROOM WING

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

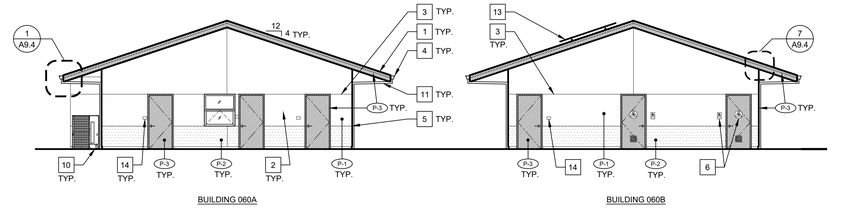


BUILDING 060B BUILDING 060A

6 NORTH ELEVATION

1/8" = 1'-0"

0 2' 4' 8' 16' 24'



BUILDING 060A BUILDING 060B

1 SOUTH ELEVATION

1/8" = 1'-0"

0 2' 4' 8' 16' 24'

GENERAL NOTES

A. ALL WALLS, DOORS, TRIM, SOFFITS, ETC. ARE TO BE PROPERLY PREPARED AND PAINTED FOR COMPLETE BUILDING PAINTING.

B. REFER TO FLOOR PLAN FOR DOOR AND WINDOW TYPES, SHEET A6.1 FOR DOOR SCHEDULE AND A6.2 FOR WINDOW SCHEDULE.

EXTERIOR ELEVATION NOTES

1. FASCIA, PAINTED, SEE DETAILS 1 & 2/A9.4.
2. CEMENT PLASTER ASSEMBLY, PAINTED.
3. CEMENT PLASTER CONTROL JOINTS, SEE DETAILS 2 AND 3/A9.3
4. GUTTER, PRE-FINISHED.
5. CEMENT PLASTER, OUTSIDE CORNER JOINT. SEE DETAIL 4/AA9.3
6. RESTROOM WALL AND DOOR SIGNAGE, TYP. SEE SIGN SCHEDULE ON SHEET A6.1 AND DETAIL 7/A6.3.
7. ASPHALT SHINGLES ROOFING, SEE DETAIL 5/A9.4
8. WALL-MOUNTED HI-LO DRINKING FOUNTAIN WITH GUARDRAILS. SEE DETAIL 7/A9.6
9. LOUVERS, PAINTED. SEE MECHANICAL DRAWINGS AND DETAILS 15 & 16/A6.2
10. OUTDOOR MECHANICAL UNIT, SEE MECHANICAL DRAWINGS.
11. DOWNSPOUT, SEE DETAIL 5/A9.3
12. CERAMIC WALL TILES OVER 7/8" MORTAR BED.
13. PV PANELS, SEE ELECTRICAL DRAWINGS.
14. ROOM SIGNAGE, TYPICAL. SEE SIGNAGE ON SHEET A6.1 AND DETAIL 7/A6.3.
15. CONTROL JOINT (BEHIND DOWNSPOUT)

GRAPHIC KEY

- P-1 PAINT COLOR 1 - FIELD - SW "SAWYER'S FENCE"
- P-2 PAINT COLOR 2 - WAINSCOAT - TBD
- P-3 PAINT COLOR 3 - TRIM - SW "ROYAL BLUE"

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EXTERIOR ELEVATIONS

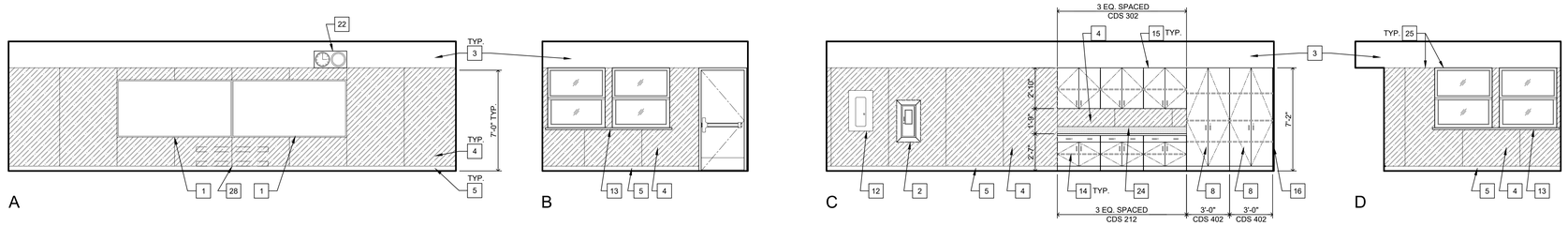
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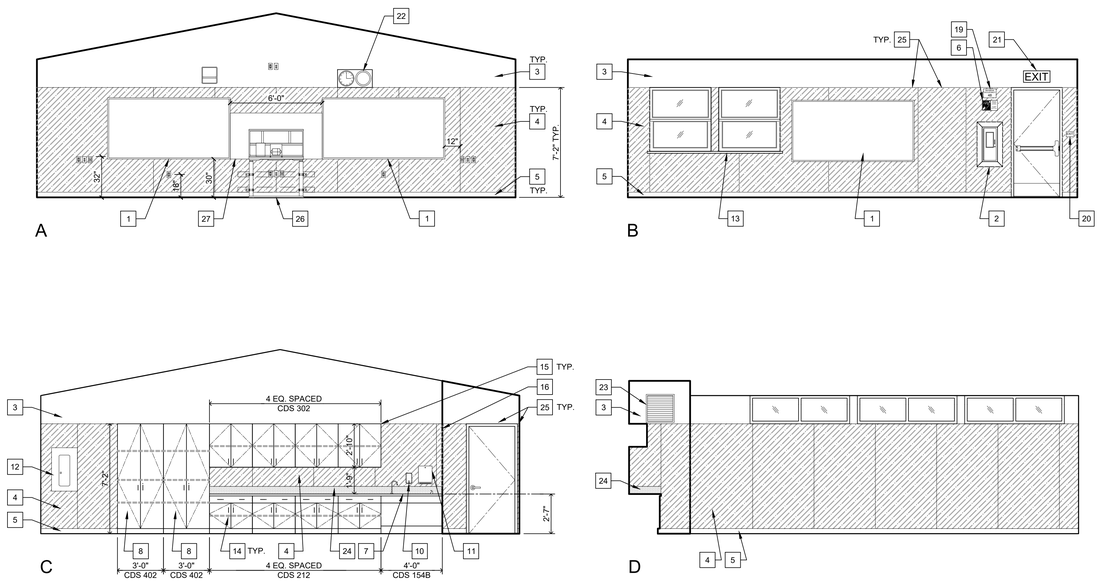
A7.1

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2 INTERIOR ELEVATIONS - INTERVENTION

1/4" = 1'-0"



1 INTERIOR ELEVATIONS - CLASSROOM 4

1/4" = 1'-0"

GENERAL NOTES

A. CASEWORK REFERENCE IS IN ACCORDANCE WITH THE NORTH AMERICAN ARCHITECTURAL WOODWORK STANDARDS AS PART OF THEIR CABINET DESIGN SERIES.
B. CASEWORK SHALL BE LOCKABLE INCLUDING DRAWERS, TYPICAL.

INTERIOR ELEVATION NOTES

1. WHITEBOARD, SEE DETAIL 11/A9.6 FOR ANCHORAGE.
2. FIRE EXTINGUISHER, SEE DETAIL 15/A9.6
3. EXPOSED GYPSUM WALL BOARD, TO BE PAINTED.
4. VINYL TACKABLE WALL PANELS OVER GYPSUM WALL BOARD.
5. WALL BASE, SEE FINISH SCHEDULE.
6. ALS SIGN, SEE DETAIL 15/A6.3
7. SINK WITH BUBBLER IN BASE CABINET, SEE DETAIL 3/A6.4 AND PLUMBING DRAWINGS.
8. TALL CABINET, SEE DETAIL 9/A6.4 FOR ANCHORAGE.
9. NOT USED.
10. SOAP DISPENSER.
11. PAPER TOWEL DISPENSER.
12. ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS.
13. WINDOW SILL, CLEAR MAPLE, FINISHED TO MATCH WOOD DOORS.
14. BASE CABINETS WITH COUNTERTOP, SEE DETAIL 7/A6.4
15. UPPER CABINETS, SEE DETAIL 8/A6.4
16. SCRIBED FILLER PIECE AT WALL.
17. TV, O.F.C.I. CONTRACTOR TO PROVIDE TV MOUNT AND BLOCKING, SEE DETAIL 17/A9.6. BOTTOM OF TV MOUNTED 68" MINIMUM ABOVE FINISHED FLOOR.
18. TACTILE RESTROOM WALL SIGN, SEE DOOR SCHEDULE.
19. MAX OCCUPANCY LOAD SIGN, SEE DETAIL 11/A6.3
20. TACTILE EXIT SIGN, SEE DOOR SCHEDULE.
21. ILLUMINATED EXIT SIGN, SEE ELECTRICAL DRAWINGS.
22. CLOCK AND SPEAKER, SEE ELECTRICAL DRAWINGS.
23. SIDE WALL RETURN REGISTER, SEE MECHANICAL DRAWINGS.
24. HIGH-PRESSURE LAMINATE BACKSPLASH.
25. ALIGN TOP OF TACKABLE WALL PANELS WITH TOP OF DOOR FRAME AND WINDOW FRAME.
26. HEIGHT-ADJUSTABLE SMART BOARD WALL STAND, 220 LB. MAX. CAPACITY. OWNER FURNISHED AND INSTALLED. CONTRACTOR SHALL PROVIDE TWO ROWS OF CONTINUOUS BLOCKING PER DETAIL 2/A6.4, EXACT HEIGHTS TO BE DETERMINED.
27. SMART BOARD, TO BE FURNISHED AND INSTALLED BY OWNER.
28. INSTALL BLOCKING FOR FUTURE SMART BOARD, SEE NOTE 26.

GRAPHIC KEY

VINYL TACKABLE WALL PANELS

HIGH PRESSURE LAMINATE BACKSPLASH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE,
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

INTERIOR ELEVATIONS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

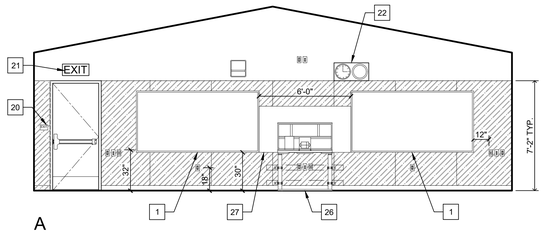
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CHECKED BY: MF, JB, JT
FA PROJECT NO: DATE:
24149 DSA V2 SUBMITTAL: 06-12-26

A7.2

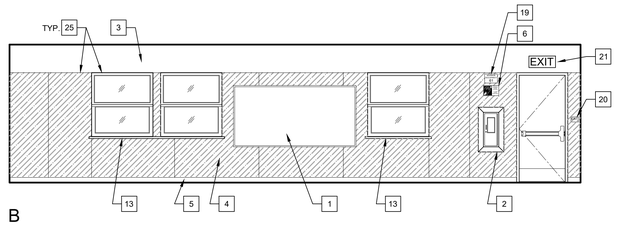
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GENERAL NOTES

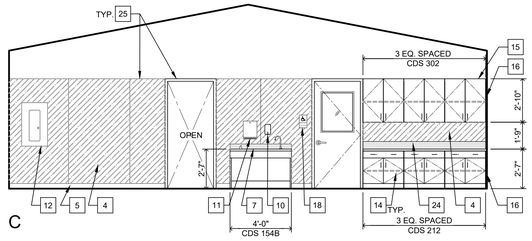
A. CASEWORK REFERENCE IS IN ACCORDANCE WITH THE NORTH AMERICAN ARCHITECTURAL WOODWORK STANDARDS AS PART OF THEIR CABINET DESIGN SERIES.
B. CASEWORK SHALL BE LOCKABLE INCLUDING DRAWERS, TYPICAL.



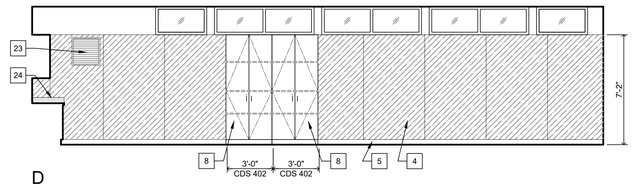
A



B



C



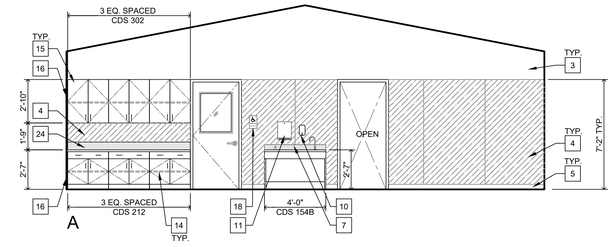
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2 INTERIOR ELEVATIONS - SPED 2 CLASSROOM

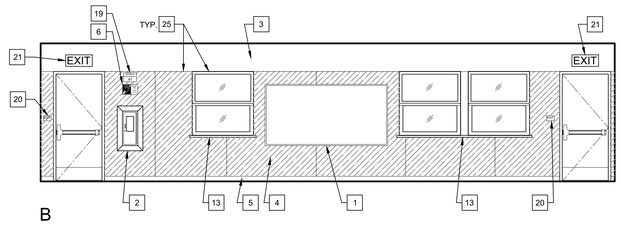
1/4" = 1'-0"
0 1' 2' 4' 8' 12'

INTERIOR ELEVATION NOTES

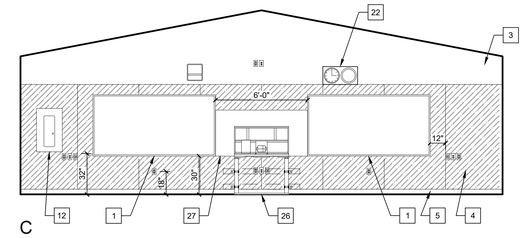
1. WHITEBOARD, SEE DETAIL 11/A9.6 FOR ANCHORAGE.
2. FIRE EXTINGUISHER, SEE DETAIL 15/A9.6
3. EXPOSED GYPSUM WALL BOARD, TO BE PAINTED.
4. VINYL TACKABLE WALL PANELS OVER GYPSUM WALL BOARD.
5. WALL BASE, SEE FINISH SCHEDULE.
6. ALS SIGN, SEE DETAIL 15/A6.3
7. SINK WITH BUBBLER IN BASE CABINET, SEE DETAIL 3/A6.4 AND PLUMBING DRAWINGS.
8. TALL CABINET, SEE DETAIL 9/A6.4 FOR ANCHORAGE.
9. NOT USED.
10. SOAP DISPENSER.
11. PAPER TOWEL DISPENSER.
12. ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS.
13. WINDOW SILL, CLEAR MAPLE. FINISHED TO MATCH WOOD DOORS.
14. BASE CABINETS WITH COUNTERTOP, SEE DETAIL 7/A6.4
15. UPPER CABINETS, SEE DETAIL 8/A6.4
16. SCRIBED FILLER PIECE AT WALL.
17. TV, O.F.C.I. CONTRACTOR TO PROVIDE TV MOUNT AND BLOCKING, SEE DETAIL 17/A9.6. BOTTOM OF TV MOUNTED 68" MINIMUM ABOVE FINISHED FLOOR.
18. TACTILE RESTROOM WALL SIGN, SEE DOOR SCHEDULE.
19. MAX OCCUPANCY LOAD SIGN, SEE DETAIL 11/A6.3
20. TACTILE EXIT SIGN, SEE DOOR SCHEDULE.
21. ILLUMINATED EXIT SIGN, SEE ELECTRICAL DRAWINGS.
22. CLOCK AND SPEAKER, SEE ELECTRICAL DRAWINGS.
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27. SMART BOARD, TO BE FURNISHED AND INSTALLED BY OWNER.



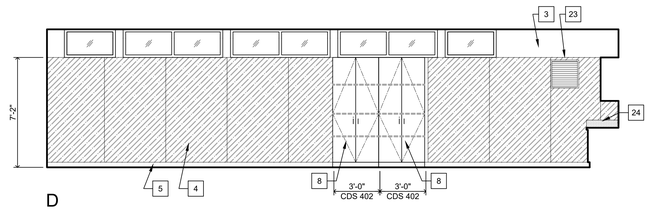
A



B



C



D

1 INTERIOR ELEVATIONS - SPED 1 CLASSROOM

1/4" = 1'-0"
0 1' 2' 4' 8' 12'

GRAPHIC KEY

VINYL TACKABLE WALL PANELS

HIGH PRESSURE LAMINATE BACKSPLASH

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STATE OF CALIFORNIA

INTERIOR ELEVATIONS

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A7.3

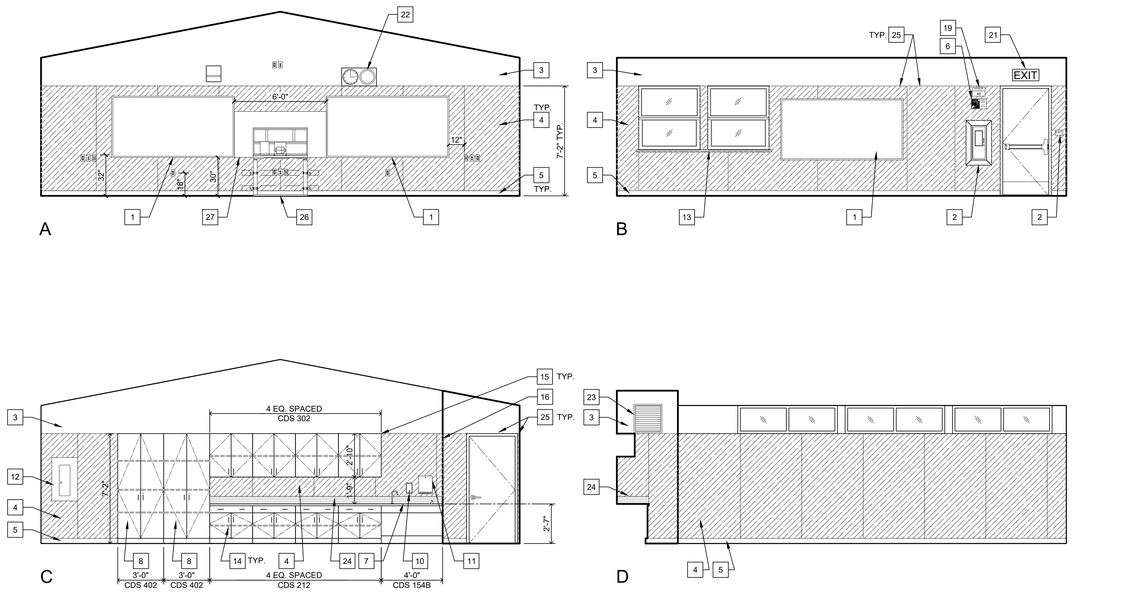
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GENERAL NOTES

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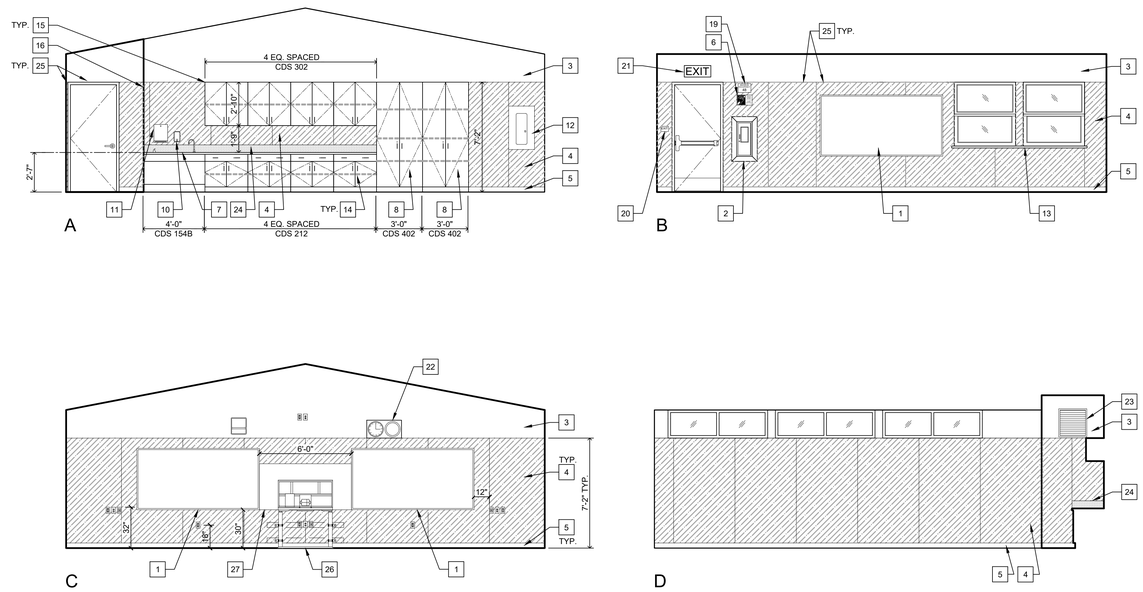
INTERIOR ELEVATION NOTES

1. WHITEBOARD, SEE DETAIL 11/A9.6 FOR ANCHORAGE.
2. FIRE EXTINGUISHER, SEE DETAIL 15/A9.6
3. EXPOSED GYPSUM WALL BOARD, TO BE PAINTED.
4. VINYL TACKABLE WALL PANELS OVER GYPSUM WALL BOARD.
5. WALL BASE, SEE FINISH SCHEDULE.
6. ALS SIGN, SEE DETAIL 15/A6.3
7. SINK WITH BUBBLER IN BASE CABINET, SEE DETAIL 3/A6.4 AND PLUMBING DRAWINGS.
8. TALL CABINET, SEE DETAIL 9/A6.4 FOR ANCHORAGE.
9. NOT USED.
10. SOAP DISPENSER.
11. PAPER TOWEL DISPENSER.
12. ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS.
13. WINDOW SILL, CLEAR MAPLE. FINISHED TO MATCH WOOD DOORS.
14. BASE CABINETS WITH COUNTERTOP, SEE DETAIL 7/A6.4
15. UPPER CABINETS, SEE DETAIL 8/A6.4
16. SCRIBED FILLER PIECE AT WALL.
17. TV, O.F.C.I. CONTRACTOR TO PROVIDE TV MOUNT AND BLOCKING, SEE DETAIL 17/A9.6. BOTTOM OF TV MOUNTED 68" MINIMUM ABOVE FINISHED FLOOR.
18. TACTILE RESTROOM WALL SIGN, SEE DOOR SCHEDULE.
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27. SMART BOARD, TO BE FURNISHED AND INSTALLED BY OWNER.



2 INTERIOR ELEVATIONS - CLASSROOM 2

1/4" = 1'-0"



1 INTERIOR ELEVATIONS - CLASSROOM 1

1/4" = 1'-0"

GRAPHIC KEY

VINYL TACKABLE WALL PANELS

HIGH PRESSURE LAMINATE BACKSPLASH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
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LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

INTERIOR ELEVATIONS

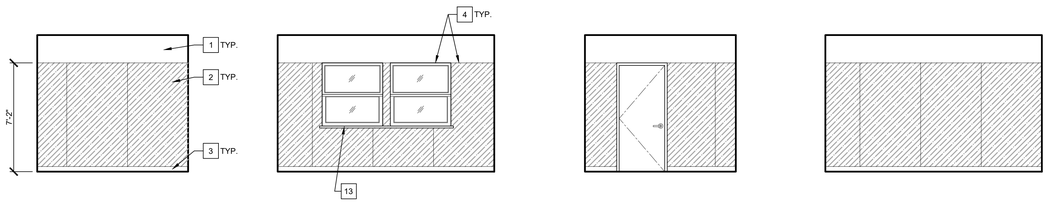
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

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24149 DSA V2 SUBMITTAL: 06-12-26

A7.4

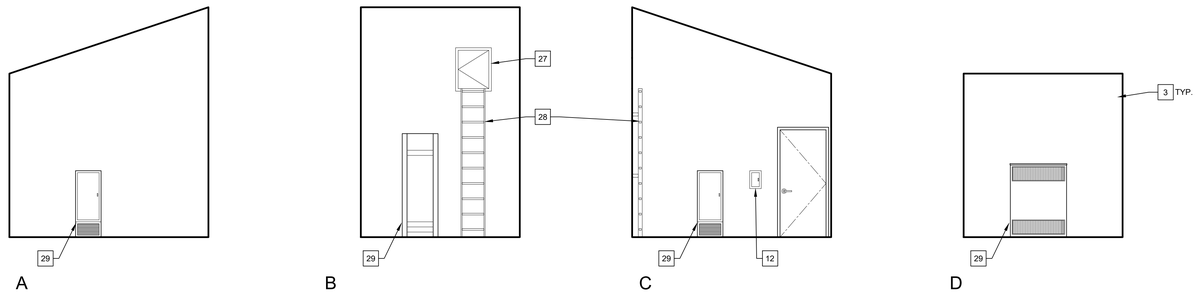
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3 INTERIOR ELEVATIONS - BREAK-OUT CLASSROOM 80A

1/4" = 1'-0"

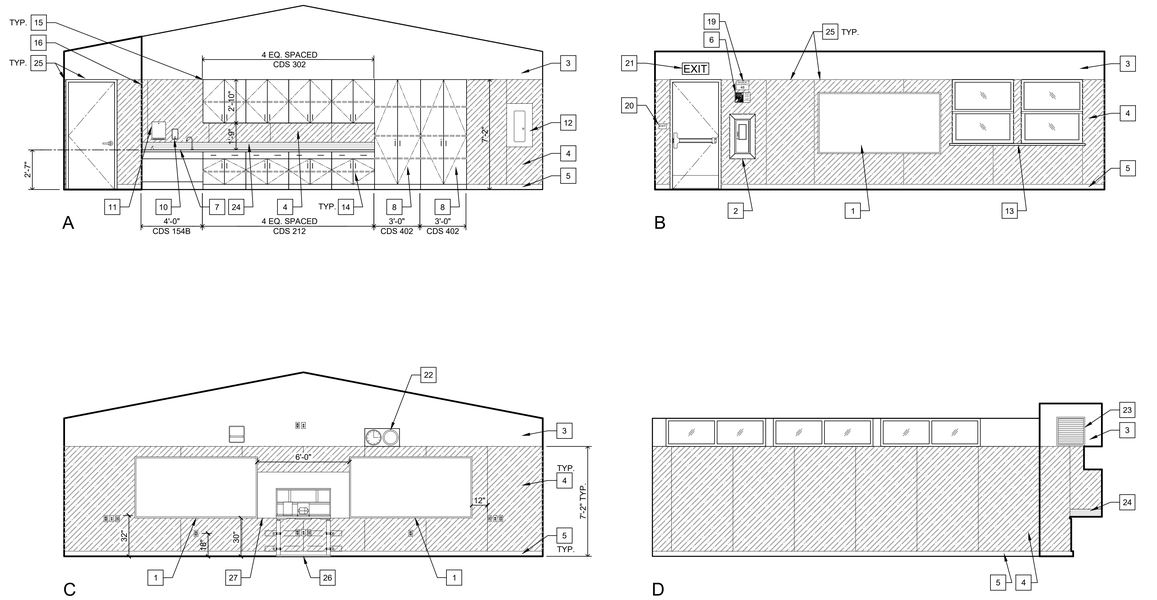
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2 INTERIOR ELEVATIONS - ELECTRICAL/IDF

1/4" = 1'-0"

0 1' 2' 4' 8' 12'



1 INTERIOR ELEVATIONS - CLASSROOM 3

1/4" = 1'-0"

0 1' 2' 4' 8' 12'

GENERAL NOTES

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1. WHITEBOARD, SEE DETAIL 11/A9.6 FOR ANCHORAGE.
2. FIRE EXTINGUISHER, SEE DETAIL 15/A9.6
3. EXPOSED GYPSUM WALL BOARD, TO BE PAINTED.
4. VINYL TACKABLE WALL PANELS OVER GYPSUM WALL BOARD.
5. WALL BASE, SEE FINISH SCHEDULE.
6. ALS SIGN, SEE DETAIL 15/A6.3
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9. NOT USED.
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11. PAPER TOWEL DISPENSER.
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21. ILLUMINATED EXIT SIGN, SEE ELECTRICAL DRAWINGS.
22. CLOCK AND SPEAKER, SEE ELECTRICAL DRAWINGS.
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27. 24" X 30" ATTIC ACCESS HATCH, SEE DETAIL 14/A9.5.
28. LADDER MOUNTED ON WALL TO ATTIC ACCESS. SEE DETAIL 18/A9.5.
29. ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS.

GRAPHIC KEY

VINYL TACKABLE WALL PANELS

HIGH PRESSURE LAMINATE BACKSPLASH

IDENTIFICATION STAMP
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APP: 03-125585 INC:
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INTERIOR ELEVATIONS

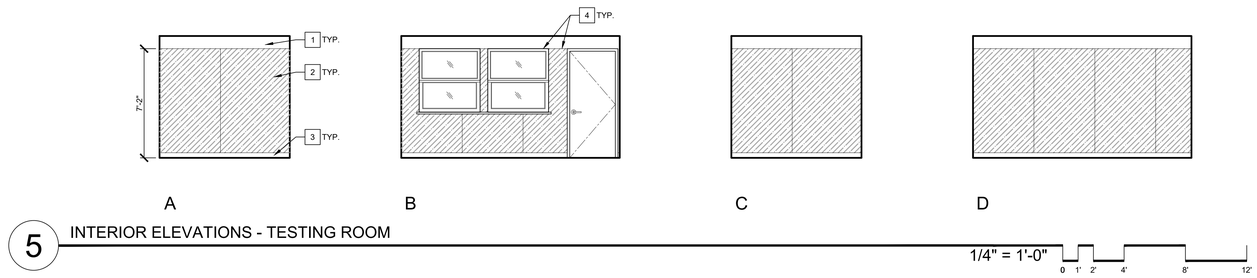
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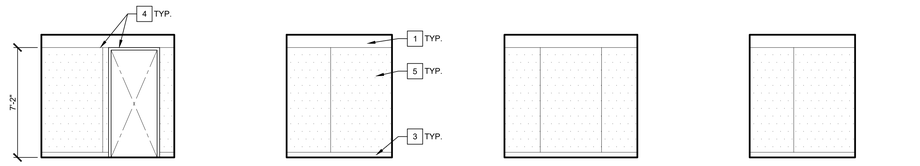
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5 INTERIOR ELEVATIONS - TESTING ROOM

1/4" = 1'-0"

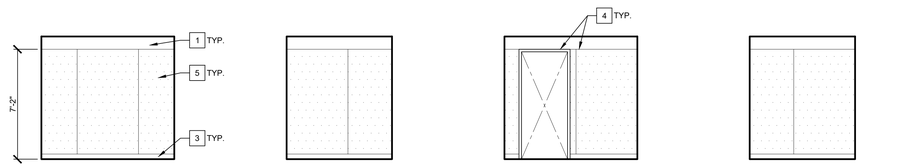
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4 INTERIOR ELEVATIONS - CALM ROOM 2

1/4" = 1'-0"

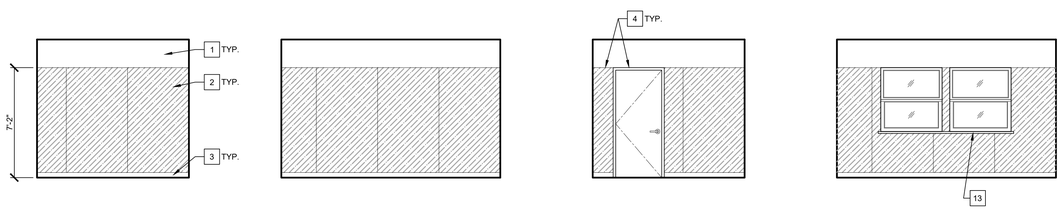
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3 INTERIOR ELEVATIONS - CALM ROOM 1

1/4" = 1'-0"

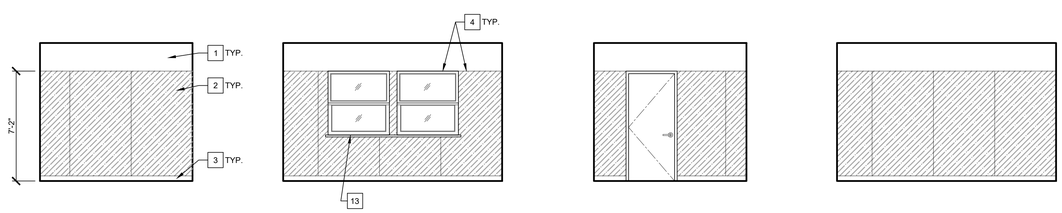
0 1' 2' 4' 8' 12'



2 INTERIOR ELEVATIONS - BREAK-OUT CLASSROOM 80C

1/4" = 1'-0"

0 1' 2' 4' 8' 12'



1 INTERIOR ELEVATIONS - BREAK-OUT CLASROOM 80B

1/4" = 1'-0"

0 1' 2' 4' 8' 12'

GENERAL NOTES

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B. CASEWORK SHALL BE LOCKABLE INCLUDING DRAWERS, TYPICAL.

INTERIOR ELEVATION NOTES

1. EXPOSED GYPSUM WALL BOARD, TO BE PAINTED.
2. VINYL TACKABLE WALL PANELS OVER GYPSUM WALL BOARD.
3. WALL BASE, SEE FINISH SCHEDULE.
4. ALIGN TOP OF TACKABLE WALL PANELS WITH TOP OF DOOR FRAME AND WINDOW FRAME.
5. FRP PANELING OVER GYP. BOARD.
13. WINDOW SILL, CLEAR MAPLE. FINISHED TO MATCH WOOD DOORS.

GRAPHIC KEY

VINYL TACKABLE WALL PANELS

FRP PANELING

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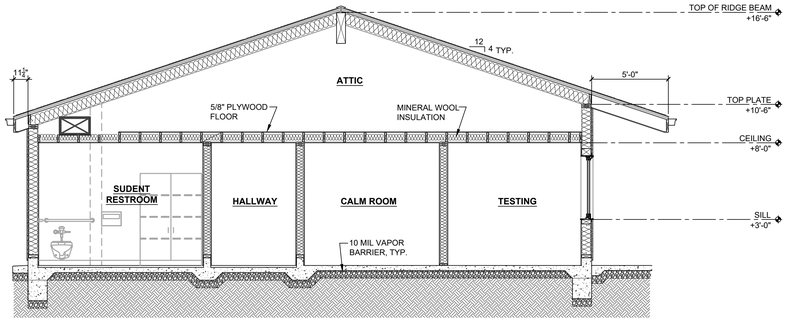
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A7.6

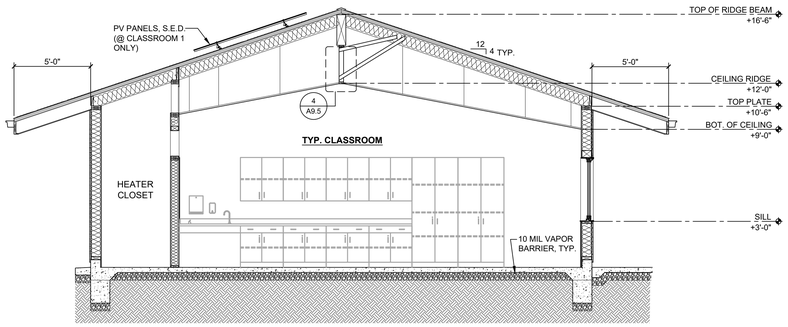
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4 BUILDING SECTION - 060A

1/4" = 1'-0"

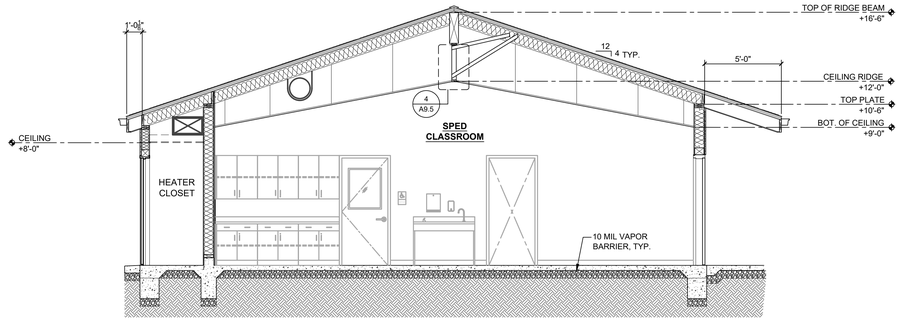
0 1' 2' 4' 8' 12'



7 BUILDING SECTION - 060B

1/4" = 1'-0"

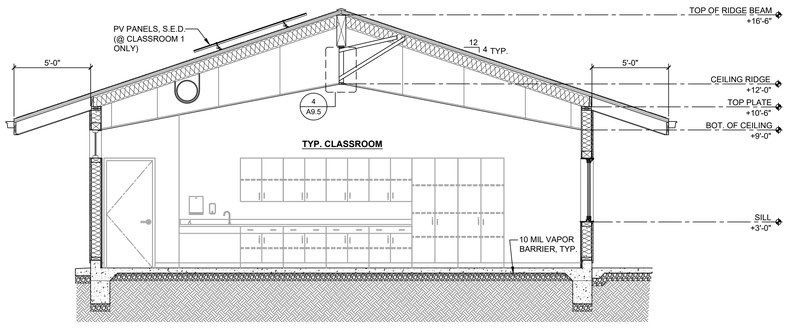
0 1' 2' 4' 8' 12'



3 BUILDING SECTION - 060A

1/4" = 1'-0"

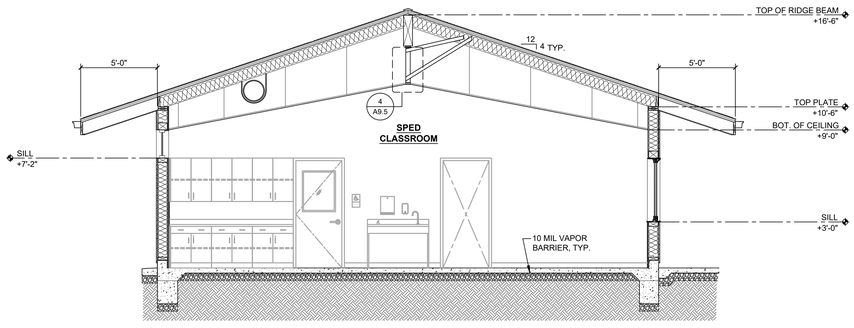
0 1' 2' 4' 8' 12'



6 BUILDING SECTION - 060B

1/4" = 1'-0"

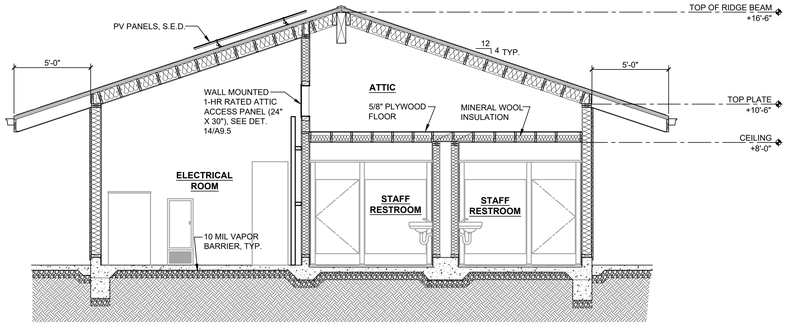
0 1' 2' 4' 8' 12'



2 BUILDING SECTION - 060A

1/4" = 1'-0"

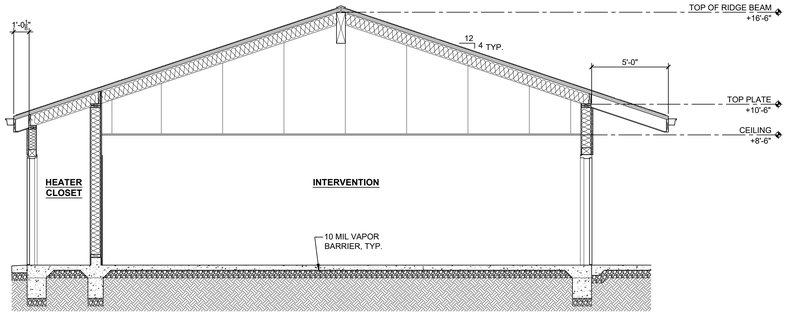
0 1' 2' 4' 8' 12'



5 BUILDING SECTION - 060B

1/4" = 1'-0"

0 1' 2' 4' 8' 12'



1 BUILDING SECTION - 060A

1/4" = 1'-0"

0 1' 2' 4' 8' 12'

FIREBLOCKING

A. FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS AS FOLLOWS (CBC 718.2.2):
   1. VERTICALLY AT THE CEILING AND FLOOR LEVELS.
   2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

B. FIREBLOCKING SHALL BE PROVIDED AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED HORIZONTAL SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS OR TRUSSES, AND BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILING, COVE CEILINGS AND SIMILAR LOCATIONS (CBC 718.2.3).

C. ACCEPTABLE FIREBLOCKING MATERIALS PER CBC 718.2.1 - BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE AND 2" NOMINAL LUMBER.

D. UNFACED FIBERGLASS BATT INSULATION USED AS FIREBLOCKING SHALL FILL THE ENTIRE CROSS SECTION OF THE WALL CAVITY TO A MINIMUM HEIGHT OF 16 INCHES MEASURED VERTICALLY. WHERE PIPING, CONDUIT OR SIMILAR OBSTRUCTIONS ARE ENCOUNTERED, THE INSULATION SHALL BE PACKED TIGHTLY AROUND THE OBSTRUCTION (CBC 718.2.1.2).

UNVENTED ATTIC

1. CBC 1202.3 UNVENTED ATTIC AND UNVENTED ENCLOSED RAFTER ASSEMBLIES.
   - THE UNVENTED ATTIC SPACE IS COMPLETELY WITHIN THE BUILDING THERMAL ENVELOPE.
   - NO INTERIOR CLASS 1 VAPOR RETARDERS ARE INSTALLED ON THE CEILING SIDE OF THE UNVENTED ATTIC ASSEMBLY OR ON THE CEILING SIDE OF THE UNVENTED ENCLOSED ROOF FRAMING ASSEMBLY.
   - INSULATION SHALL COMPLY WITH CBC 1202.3 ITEM 5.1 OR 5.2, AND ADDITIONALLY ITEM 5.3.

GENERAL NOTES

1. EXTERIOR STUD WALL SHALL HAVE R-25 INSULATION, UNLESS OTHERWISE NOTED.
2. INTERIOR STUD WALLS SHALL HAVE R-19 INSULATION.
3. ROOF FRAMING SHALL HAVE R-38 INSULATION. SEE DETAIL 5/A9.4 FOR ROOF ASSEMBLY.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE,
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

BUILDING SECTIONS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: DATE:
24149 DSA V2 SUBMITTAL: 06-12-26

A8.1

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FIREBLOCKING

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   2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

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C. ACCEPTABLE FIREBLOCKING MATERIALS PER CBC 718.2.1 - BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE AND 2" NOMINAL LUMBER.

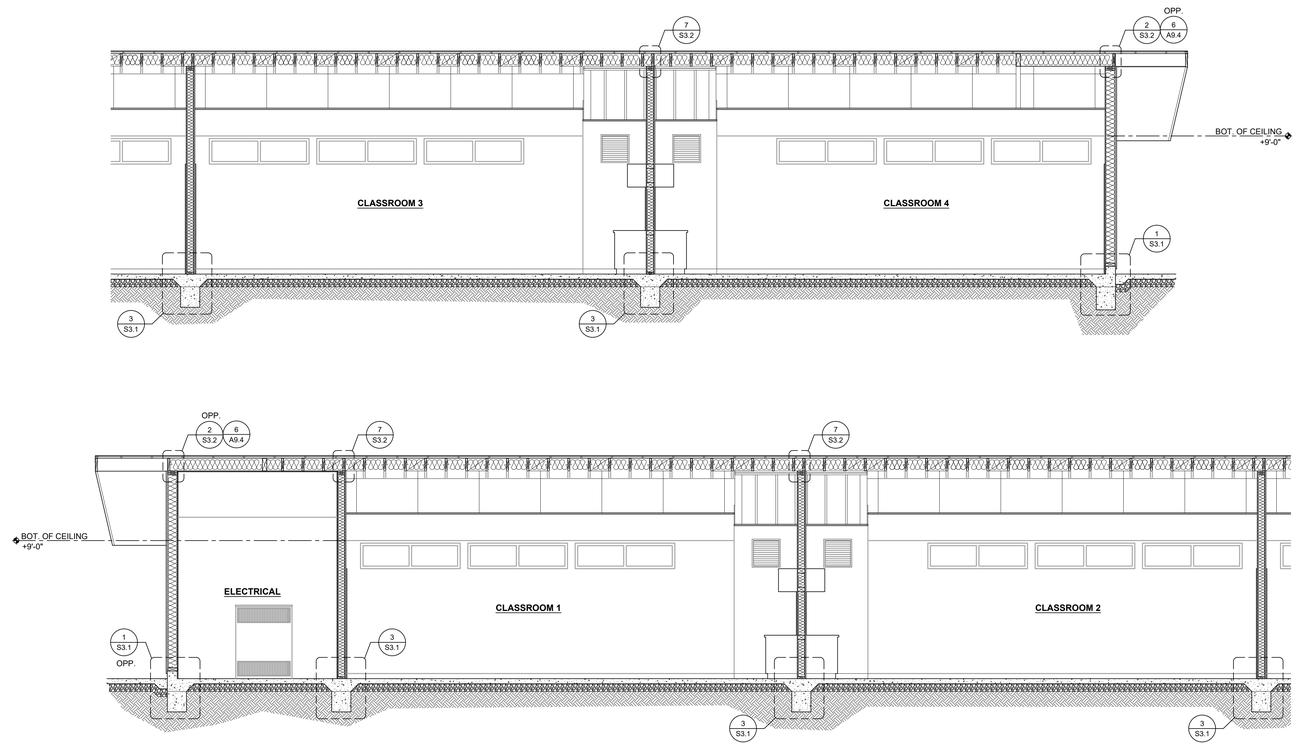
D. UNFACED FIBERGLASS BATT INSULATION USED AS FIREBLOCKING SHALL FILL THE ENTIRE CROSS SECTION OF THE WALL CAVITY TO A MINIMUM HEIGHT OF 16 INCHES MEASURED VERTICALLY. WHERE PIPING, CONDUIT OR SIMILAR OBSTRUCTIONS ARE ENCOUNTERED, THE INSULATION SHALL BE PACKED TIGHTLY AROUND THE OBSTRUCTION (CBC 718.2.1.2).

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1 BUILDING SECTION - 060B

1/4" = 1'-0"

0 1' 2' 4' 8' 12'

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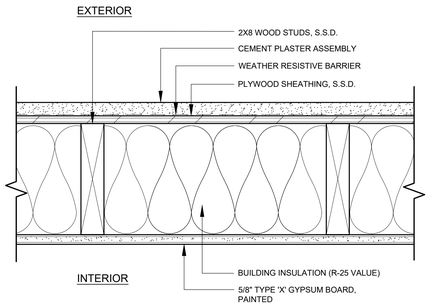
NEW CLASSROOMS AT
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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
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FA PROJECT NO: DATE:
24149 DSA V2 SUBMITTAL: 06-12-26

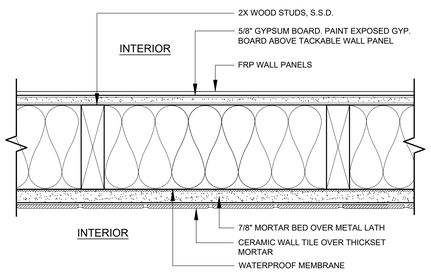
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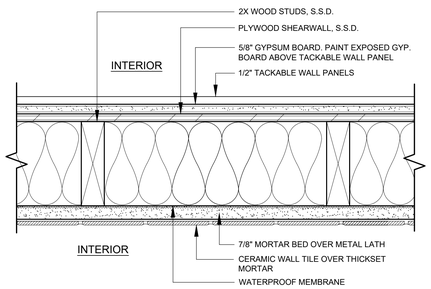
WALL TYPE 16

1- HR RATED (CBC TABLE 721.1 (2) #15.3) 3"=1'-0"



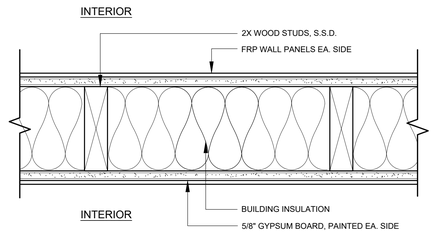
WALL TYPE 12

3"=1'-0"



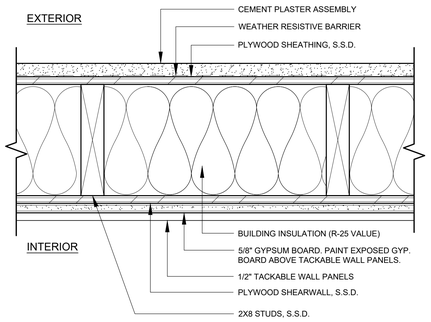
WALL TYPE 8

3"=1'-0"



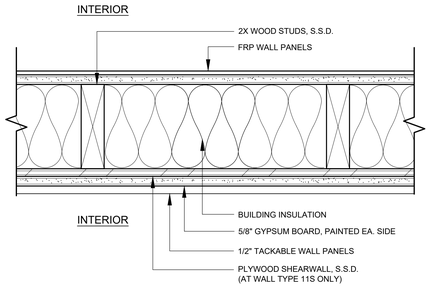
WALL TYPE 4

3"=1'-0"



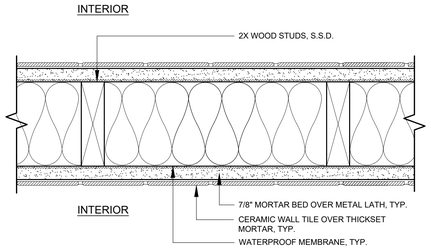
WALL TYPE 15S

3"=1'-0"



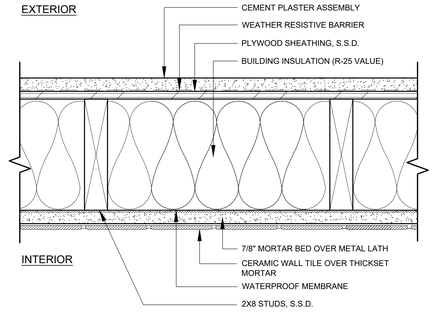
WALL TYPES 11 AND 11S

3"=1'-0"



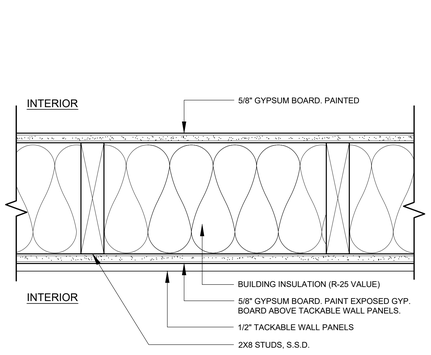
WALL TYPE 7

3"=1'-0"



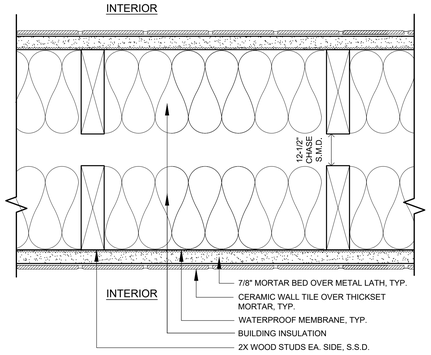
WALL TYPE 3

3"=1'-0"



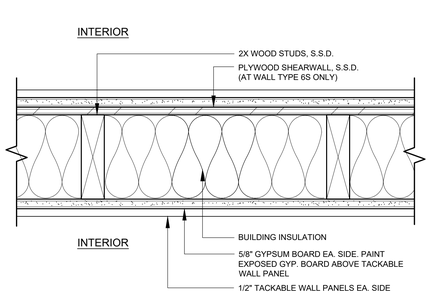
WALL TYPE 14

3"=1'-0"



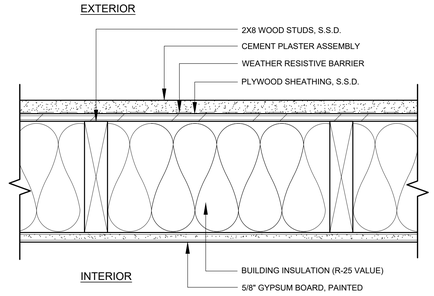
WALL TYPE 10

3"=1'-0"



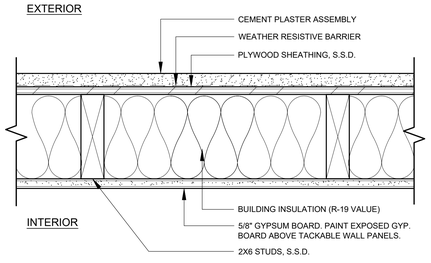
WALL TYPES 6 AND 6S

3"=1'-0"



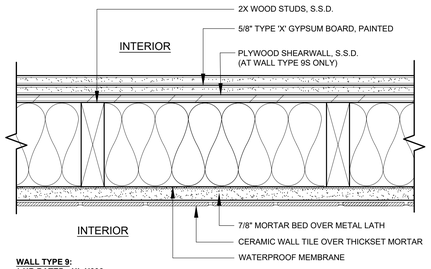
WALL TYPE 2

3"=1'-0"



WALL TYPE 13

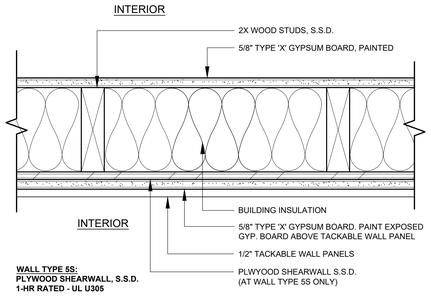
3"=1'-0"



WALL TYPE 9:
1-HR RATED - UL U392

WALL TYPES 9 AND 9S

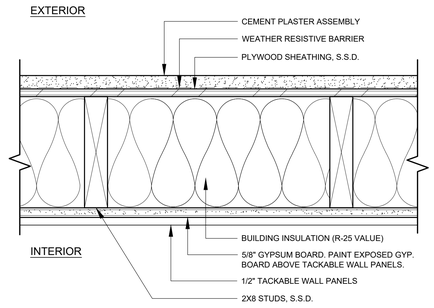
3"=1'-0"



WALL TYPE 5S:
PLYWOOD SHEARWALL, S.S.D.
1-HR RATED - UL U305

WALL TYPES 5 AND 5S

3"=1'-0"



WALL TYPE 1

3"=1'-0"

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SS ☑ FLS ☑ ACS ☑
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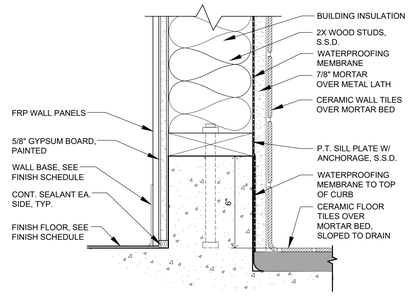
WALL TYPES

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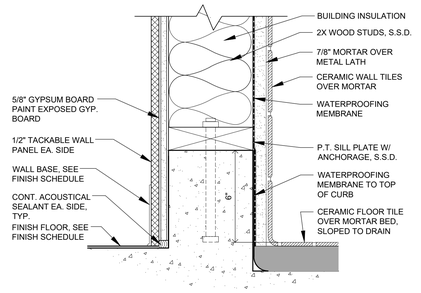
REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: 24149
DATE: DSA V2 SUBMITTAL: 06-12-26

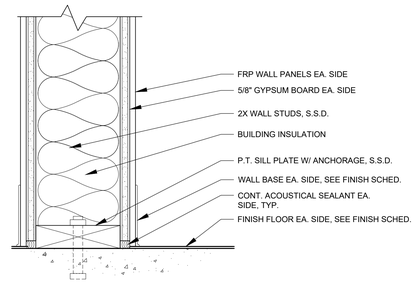
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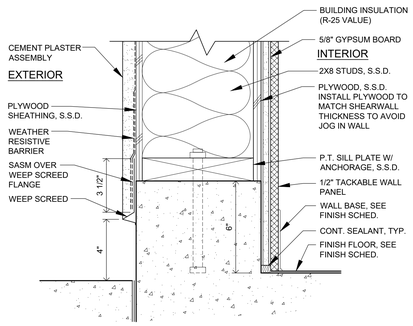
12 WALL BASE DETAIL
WALL TYPE 12 3"=1'-0"



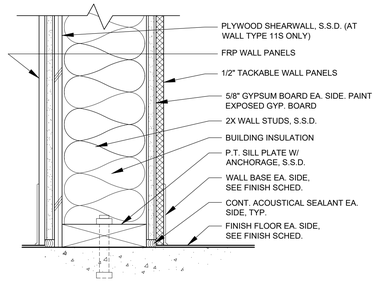
8 WALL BASE DETAIL
WALL TYPE 8 3"=1'-0"



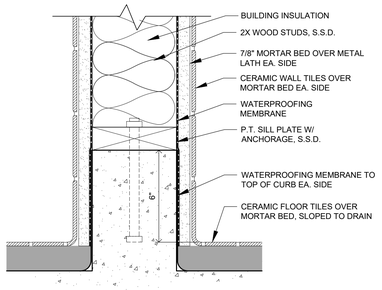
4 WALL BASE DETAIL
WALL TYPE 4 3"=1'-0"



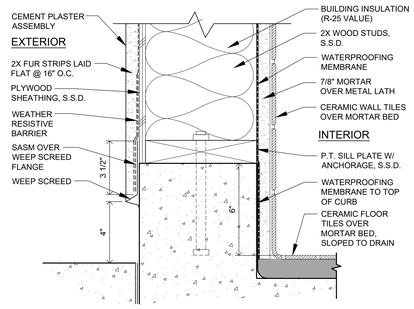
15 WALL BASE DETAIL
WALL TYPE 15S 3"=1'-0"



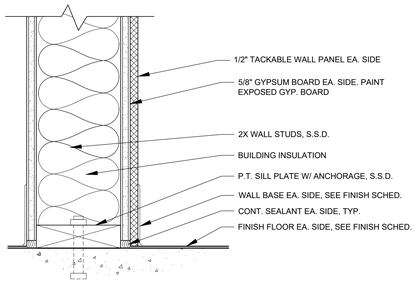
11 WALL BASE DETAIL
WALL TYPES 11 AND 11S 3"=1'-0"



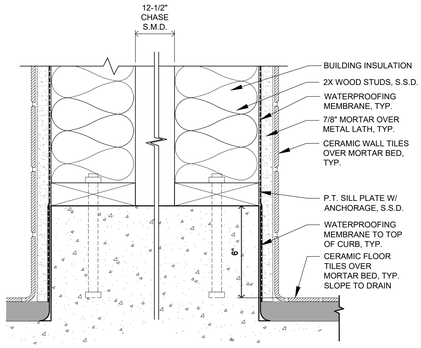
7 WALL BASE DETAIL
WALL TYPE 7 3"=1'-0"



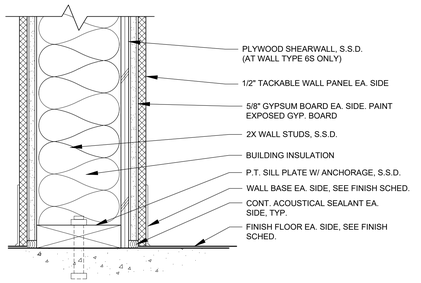
3 WALL BASE DETAIL
WALL TYPE 3 3"=1'-0"



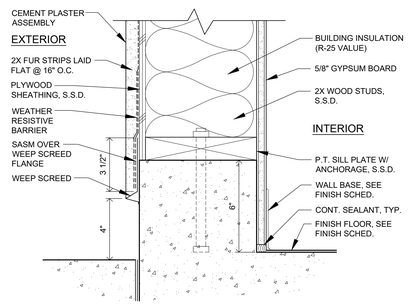
14 WALL BASE DETAIL
WALL TYPE 14 3"=1'-0"



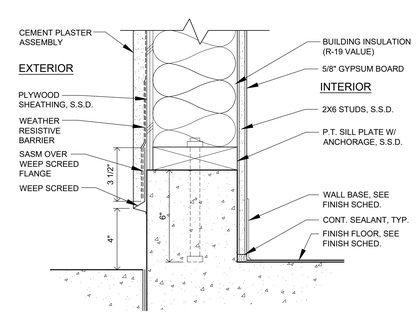
10 WALL BASE DETAIL
WALL TYPE 10 3"=1'-0"



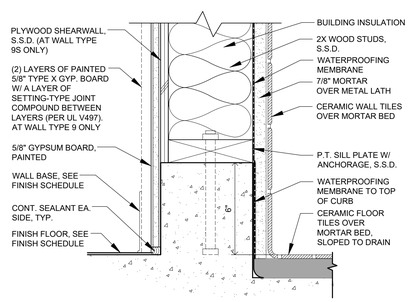
6 WALL BASE DETAIL
WALL TYPES 6 AND 6S 3"=1'-0"



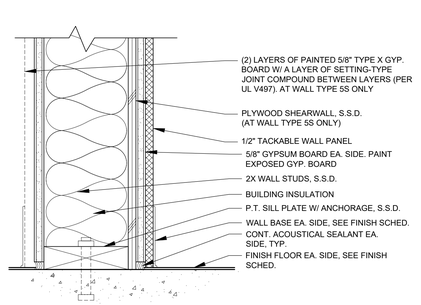
2 WALL BASE DETAIL
WALL TYPE 2 3"=1'-0"



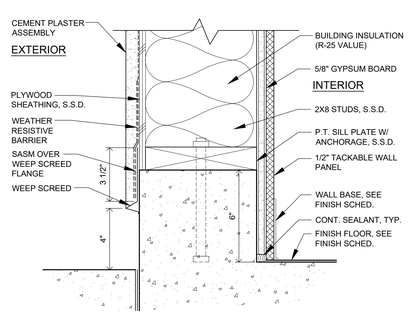
13 WALL BASE DETAIL
WALL TYPE 13 3"=1'-0"



9 WALL BASE DETAIL
WALL TYPES 9 AND 9S 3"=1'-0"



5 WALL BASE DETAIL
WALL TYPES 5 AND 5S 3"=1'-0"



1 WALL BASE DETAIL
WALL TYPE 1 3"=1'-0"

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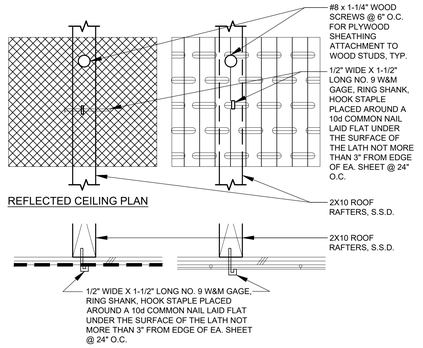
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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

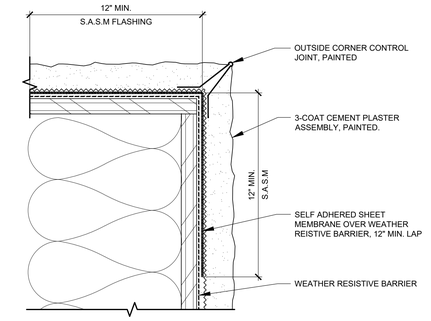
REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: DATE:
24149 DSA V2 SUBMITTAL: 06-12-26

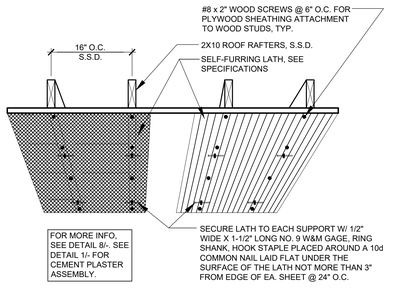
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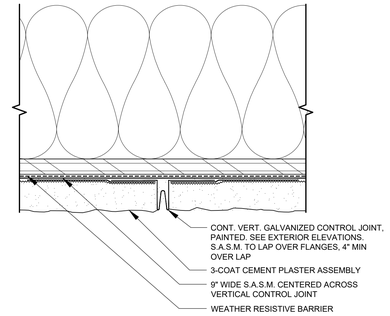
8 HORIZONTAL LATH NAILING — 3"=1'-0"



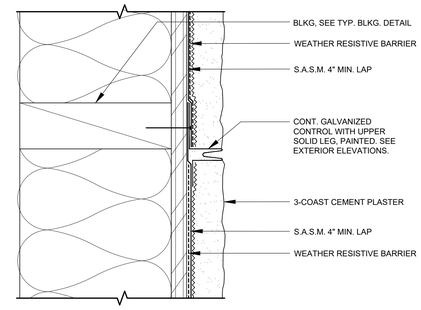
4 CEMENT PLASTER
OUTSIDE CORNER TRIM — 6"=1'-0"



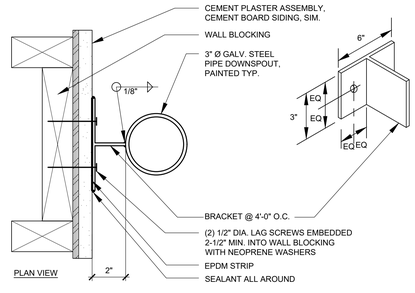
7 HORIZONTAL LATH NAILING — 1"=1'-0"



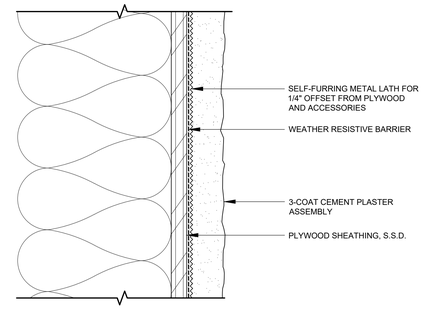
3 TYP. VERTICAL CONTROL JOINT
@ CEMENT PLASTER — 6"=1'-0"



2 TYP. HORIZONTAL CONTROL JOINT
@ CEMENT PLASTER — 6"=1'-0"



5 DOWNSPOUT DETAIL
@ CEMENT PLASTER ASSEMBLY — 3"=1'-0"



1 CEMENT PLASTER SECTION
TYPICAL ASSEMBLY — 6"=1'-0"

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APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
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CAMPBELL, CA 95008
PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

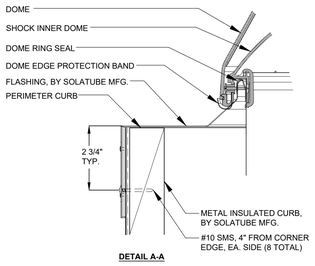
EXTERIOR DETAILS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

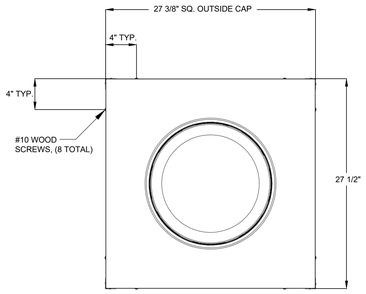
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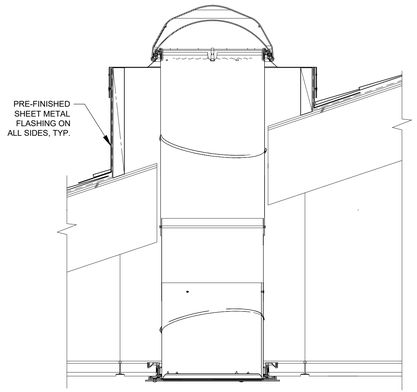
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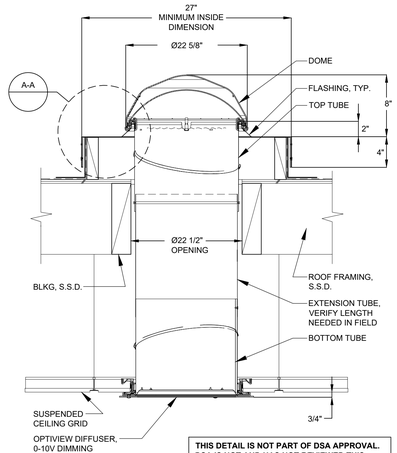


DETAIL A-A



NOTES:
1. ALL TUBE JOINTS AND SEAMS TAPED WITH 2" FOIL TAPE.
2. 6" MIN. CLEARANCE SHALL BE MAINTAINED FROM ALL SOLATUBE COMPONENTS AND OTHER PLENUM COMPONENTS.
3. PROVIDE EXTENSION TUBES. VERIFY LENGTH NEEDED IN FIELD.

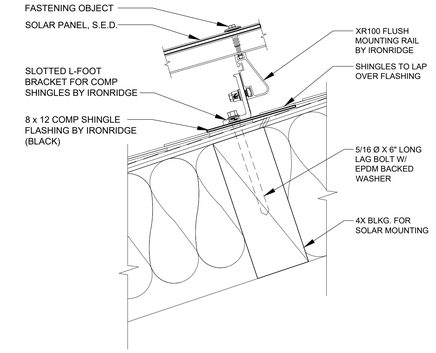




THIS DETAIL IS NOT PART OF DSA APPROVAL. DSA IS NOT AND HAS NOT REVIEWED THIS DETAIL PER DSA IR A-22. SOLAR TUBE 2FT x 2FT OR LESS ARE EXEMPT FROM DSA APPROVAL.

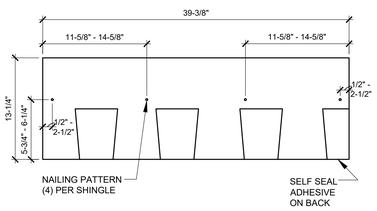
13 SOLATUBE

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



10 SOLAR PANEL MOUNTING

3"=1'-0"

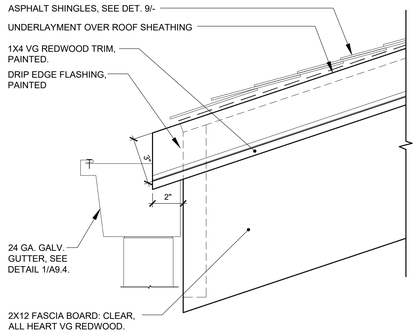


BASIS OF DESIGN: TIMBERLINE SERIES BY GA, ESR-1475
INSTALL PER MFG'S INSTALLATION INSTRUCTIONS AND ESR-1475.

FASTENERS MUST COMPLY WITH ASTM F1667 AND MUST BE MINIMUM NO. 12 GAGE, 3/8" Ø HEAD, GALVANIZED, STAINLESS STEEL, BARBED, DEFORMED, OR SMOOTH-SHANK ROOFING NAILS. FASTENERS MUST BE OF SUFFICIENT LENGTH TO PENETRATE 3/4" INTO THE SHEATHING, OR THROUGH THE SHEATHING, WHICHEVER IS LESS.

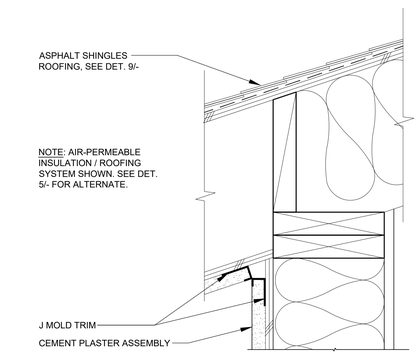
9 ASPHALT SHINGLES ROOFING

NAILING PATTERN 1-1/2"=1'-0"



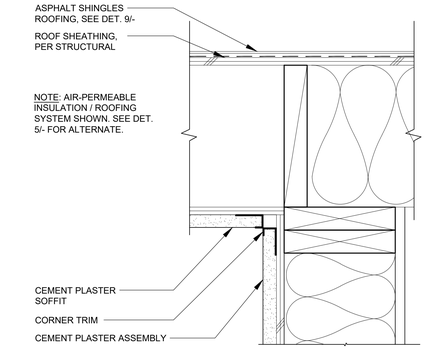
8 FASCIA AT GABLE END

LOWER END 3"=1'-0"



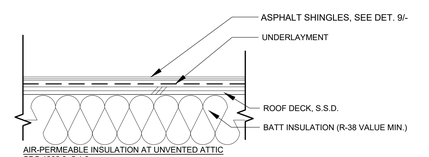
7 EAVE TO WALL TRANSITION

3"=1'-0"



6 RAKE TO WALL TRANSITION

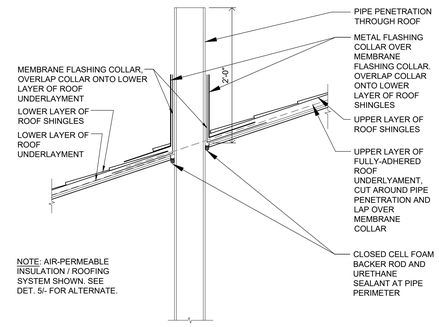
3"=1'-0"



AIR-PERMEABLE INSULATION AT UNVENTED ATTIC
CBC 1202.3, 5.1.2

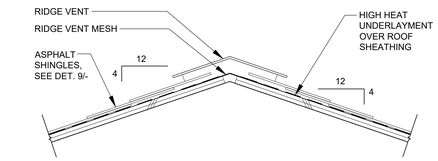
5 ASPHALT SHINGLE ROOFING

3"=1'-0"



4 PIPE THRU ROOF FLASHING

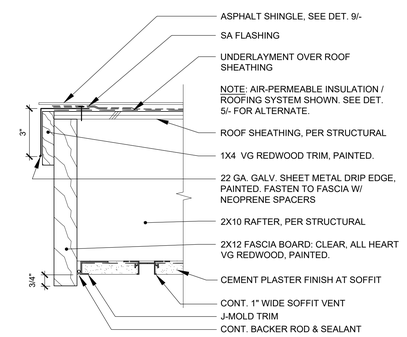
ASPHALT SHINGLE ROOF 1-1/2"=1'-0"



NOTE: AIR-PERMEABLE INSULATION / ROOFING SYSTEM SHOWN. SEE DET. 5/- FOR ALTERNATE.

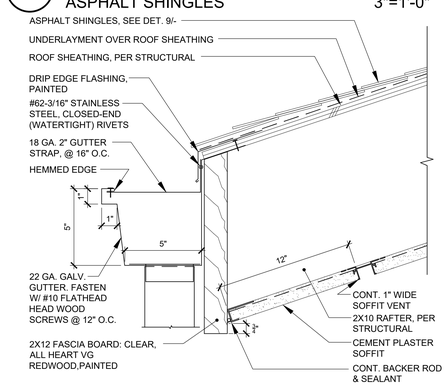
3 RIDGE

ASPHALT SHINGLES 3"=1'-0"



2 RAKE

ASPHALT SHINGLES 3"=1'-0"



1 EAVE WITH GUTTER

3"=1'-0"

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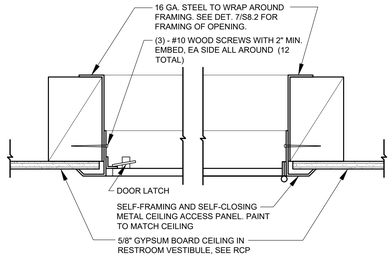
ROOF DETAILS

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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

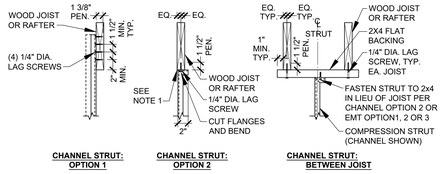
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DATE: DSA V3 SUBMITTAL: 06-12-26

A9.4



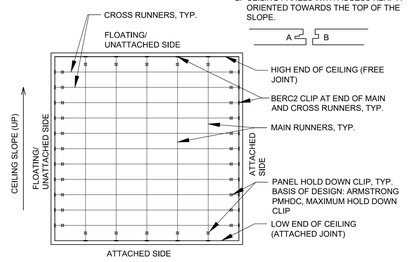
16 NON-RATED ACCESS PANEL
@ GYPSUM BOARD CEILING — 3"=1'-0"



NOTES:
1. WEB OF CHANNEL TO BEAR W/IN WIDTH OF WOOD MEMBER.
2. VERTICAL LEG OF MEMBER TO FALL W/IN THE WIDTH OF THE WOOD MEMBER.
3. PEN. = MINIMUM PENETRATION OF LAG SCREW THREADS INTO THE WOOD MEMBER.
4. NO. 14 WOOD SCREW MAY BE USED IN LIEU OF 1/4" LAG SCREW.

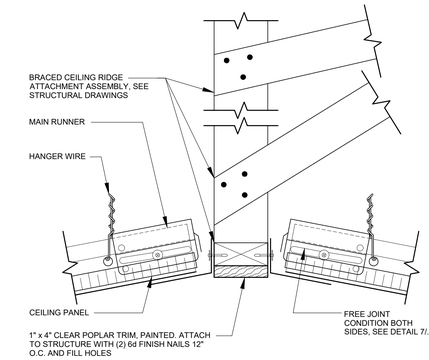
12 STRUT CONNECTION - WOOD
(IR 25-2 DET. 5.51) — 1"=1'-0"

NOTES:
1. LATERAL FORCE BRACING ASSEMBLIES NOT SHOWN FOR CLARITY. REFER TO TYP. CEILING PLAN.
2. CEILING PANELS WITH ACCESS KERF A ORIENTED TOWARDS THE TOP OF THE SLOPE.

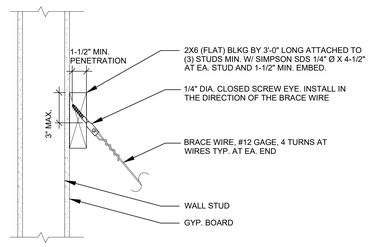


CEILING PLAN: SLOPE ≤ 15°

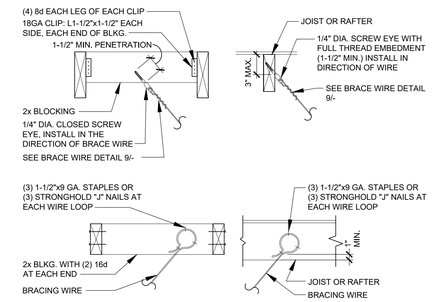
8 PANEL H.D. AND SEISMIC CLIPS
AT SLOPED CEILING — SCALE: 1/8"=1'-0"



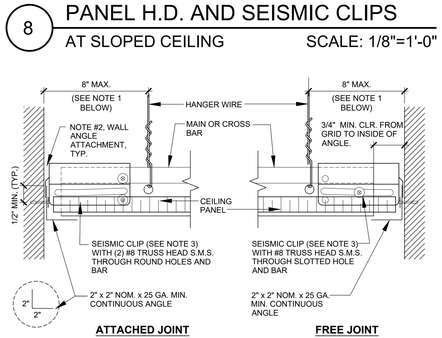
4 CEILING RIDGE
AT SLOPED CEILING — 3"=1'-0"



15 BRACING WIRE CONNECTION
WALL MOUNTED — 1-1/2"=1'-0"



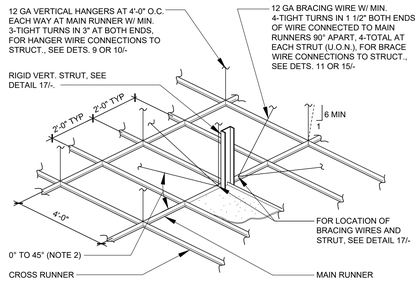
11 BRACE WIRE CONNECTION - WOOD
(IR 25-2 DET. 4.35) — 1"=1'-0"



ATTACHED JOINT **FREE JOINT**

NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8 INCHES OF THE SUPPORT OR WITHIN ¼" OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS 8 INCHES OR LESS.
2. FASTEN ANGLE TO WALL STUD OR BLOCKING WITH TRUSS HEAD SCREWS AS FOLLOWS: A. METAL STUD (20 GA. MIN.) WALL: (1) #10 SMS AT 16" O.C. MAX.
3. SEISMIC CLIP BY ARMSTRONG - BEAM END RETAINING CLIP (BERC-2) PER ICC-ESR #1308.

7 CEILING PERIMETER
(IR 25-2 DET. 2.60) — 3"=1'-0"



NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

6 BRACING ASSEMBLY
(IR 25-2 DET. 2.35) — 3"=1'-0"

ACOUSTICAL CEILING NOTES

1. CEILING SYSTEM GENERAL NOTES:
1.1. CEILING SYSTEM COMPONENT SHALL COMPLY WITH ASTM C635-07 AND SECTIONS 5.1 ASTM E580.
1.2. THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.
1.3. CEILING SYSTEMS.
THE FOLLOWING CEILING SYSTEMS ARE PART OF THE SCOPE OF THIS PROJECT:

B.O.D. MAUFACTURER: ARMSTRONG WORLD INDUSTRIES, INC.
PRODUCT NAME: 7301, HEAVY DUTY, 15/16" FACE, EXPOSE T.
ICC #: ESR-1308
MAIN RUNNER: 7301
CROSS RUNNER: XL-7342

1.4. SEISMIC WALL CLIP: ARMSTRONG BERC2 CLIP
1.5. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
1.6. FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBERS, IT IS NOT MANDATORY TO PROVIDE 3/4" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH AREA FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE 3/4" 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:
2.1. CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641-09a. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
2.2. GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653-11, 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 GAGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES:
3.1. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, AND CONDUIT, ETC.
3.2. HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.
3.3. HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.
3.4. SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
3.5. 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:
4.1. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513-10, ASME B18.6.4-89 (R2005). PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
4.2. EXPANSION ANCHORS SHALL BE: N/A
4.3. POWER-ACTUATED FASTENERS SHALL BE: N/A
4.4. IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTER IS DRIVEN THROUGH THE STEEL MEMBER.
4.5. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

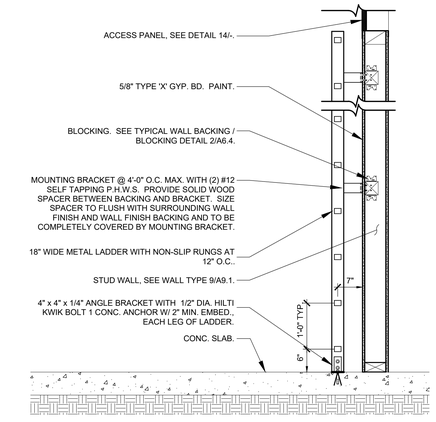
5. TESTING: ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.

6. LIGHT FIXTURES:
6.1. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.
6.2. SURFACE-MOUNTED LIGHT FIXTURES 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 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LBS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
6.3. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LBS. BUT LESS THAN OR EQUAL TO 56 LBS. 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.
6.4. LIGHT FIXTURES WEIGHING GREATER THAN 10 LBS. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURES HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.
6.5. ALL LIGHT FIXTURES WEIGHT GREATER THAN 56 LBS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

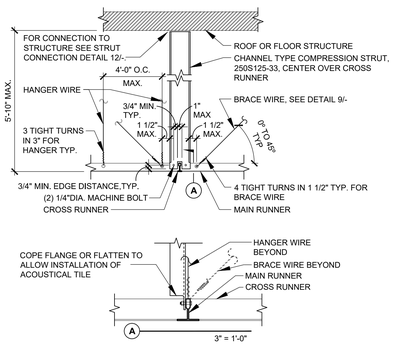
7. SERVICES WITHIN THE CEILING:
7.1. ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRE AT EACH COMPONENT.
7.2. CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LBS. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.3. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LBS. BUT LESS THAN OR EQUAL TO 56 LBS. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.4. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LBS. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

8. OTHER DEVICES WITHIN THE CEILING:
8.1. 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 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

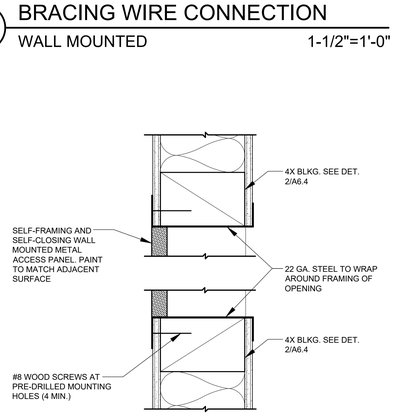
1 CEILING NOTES
(IR 25-2 APPENDIX A)



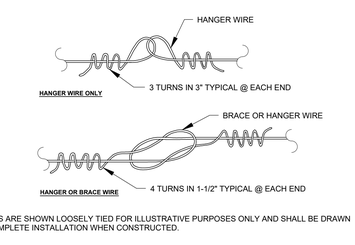
18 ACCESS LADDER
AT ELECT. 83A — 3/4"=1'-0"



17 COMPRESSION STRUT - CHANNEL
(IR 25-2 DET. 3.10) — 1"=1'-0"

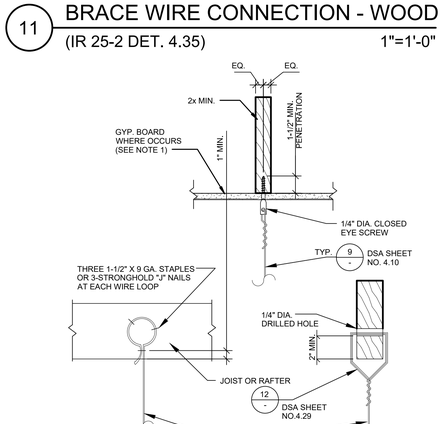


14 1-HR RATED ATTIC ACCESS PANEL
WALL MOUNTED (@ ELECT. 83A) — 3"=1'-0"



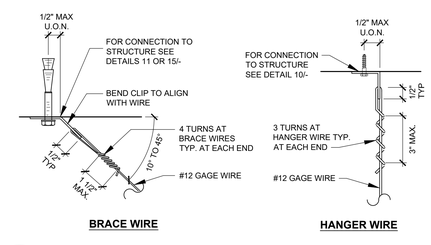
NOTES:
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

13 CEILING WIRE SPLICES
(DSA IR 25-2 DET. 6.10) — 3"=1'-0"



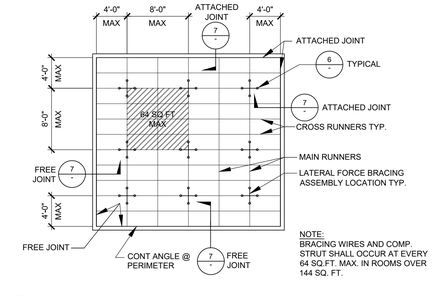
NOTE:
1. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

10 HANGER WIRE CONNECTION
(IR 25-2 DET. 4.25) — 1-1/2"=1'-0"



BRACE WIRE **HANGER WIRE**

9 HANGER & BRACE WIRE CONN.
(IR 25-2 DET. 4.10) — 3"=1'-0"



NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 64 SQ.FT. MAX. IN ROOMS OVER 144 SQ. FT.

5 8' X 8' BRACE ASSEM. SPACING
(IR 25-2 DET. 2.10) — SCALE: 1/8"=1'-0"

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SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE, SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
No. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

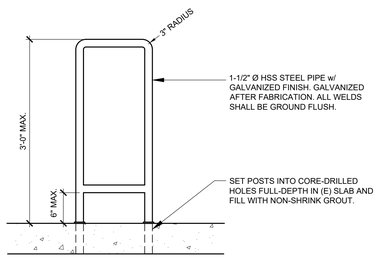
CEILING DETAILS

NEW CLASSROOMS AT DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

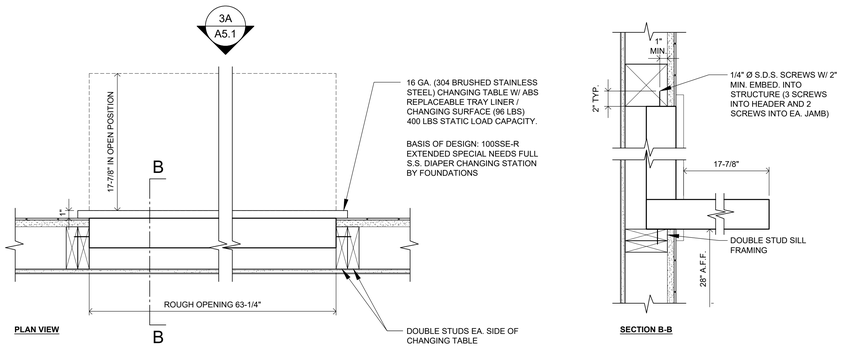
REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: 24149
DATE: DSA V2 SUBMITTAL: 06-12-26

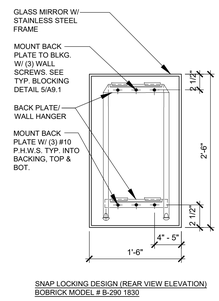
A9.5



20 SAFETY RAIL
FOR DRINKING FOUNTAIN — 1"=1'-0"

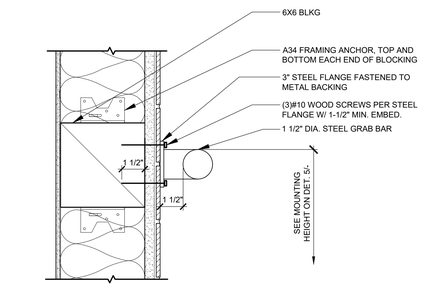


16 CHANGING TABLE
FOR SPECIAL NEEDS — 1-1/2"=1'-0"



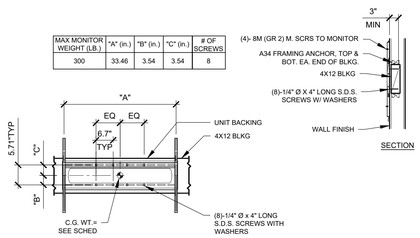
SNAP LOCKING DESIGN (REAR VIEW ELEVATION)
BOBRICK MODEL # B-290 1830

8 MIRROR ANCHORAGE
N.T.S.



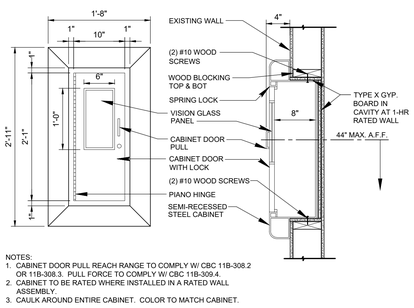
4 GRAB BAR ANCHORAGE
3"=1'-0"

MAX MONITOR WEIGHT (LB.)	"A" (in.)	"B" (in.)	"C" (in.)	# OF SCREWS
300	33.46	3.54	3.54	8



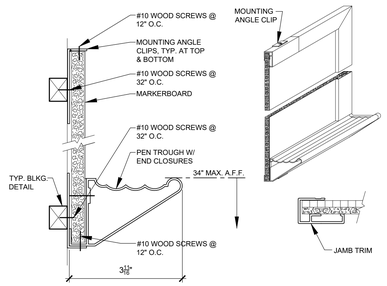
NOTES:
1. FORCES ARE DETERMINED PER 2022 CBC AND ASCE 7-22.
2. BASIS OF DESIGN: NEWLINE WALL MOUNT FOR 55"-86" MONITORS, 300 LBS MAX WEIGHT.

19 TV / MONITOR WALL MOUNTING
1/2"=1'-0"

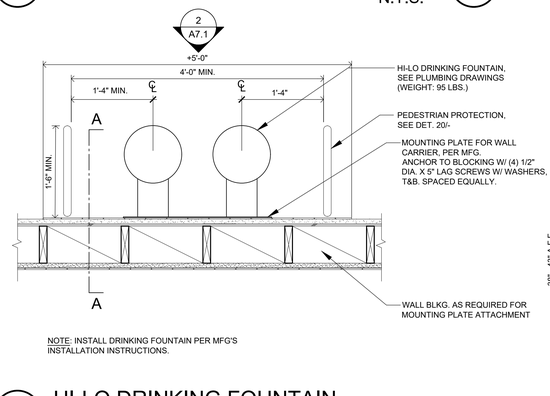


NOTES:
1. CABINET DOOR PULL REACH RANGE TO COMPLY W/ CBC 11B-308.2 OR 11B-308.3. PULL FORCE TO COMPLY W/ CBC 11B-309.4.
2. CABINET TO BE RATED WHERE INSTALLED IN A RATED WALL ASSEMBLY.
3. CAULK AROUND ENTIRE CABINET. COLOR TO MATCH CABINET.

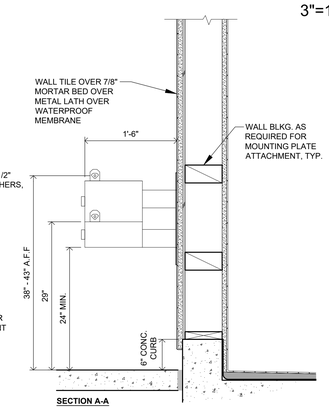
15 FIRE EXTINGUISHER CABINET
SEMI-RECESSED — 1"=1'-0"



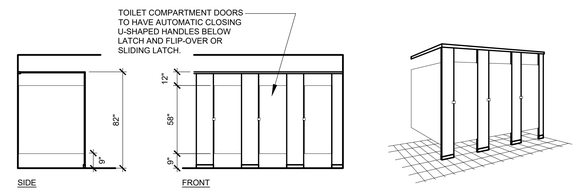
11 MARKER BOARD ANCHORAGE
N.T.S.

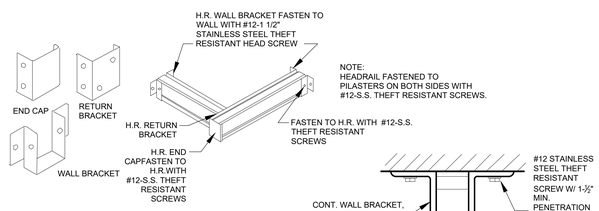


NOTE: INSTALL DRINKING FOUNTAIN PER MFG'S INSTALLATION INSTRUCTIONS.

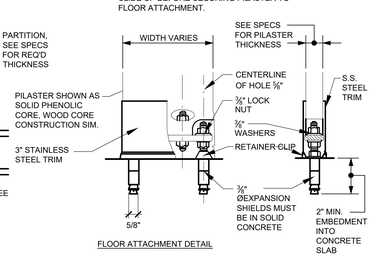


7 HI-LO DRINKING FOUNTAIN
1"=1'-0"

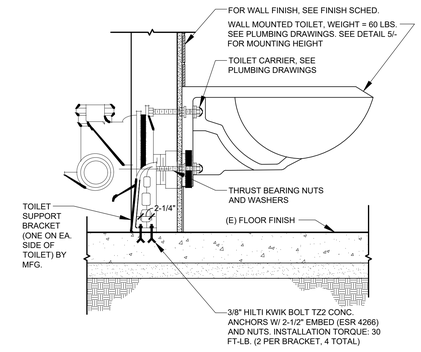




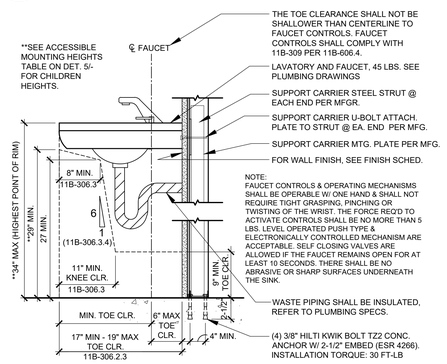
NOTE:
SEE SPECS FOR DOOR PULL REQUIREMENTS



17 TOILET PARTITION DETAILS
N.T.S.



10 TOILET ANCHORAGE
1-1/2"=1'-0"

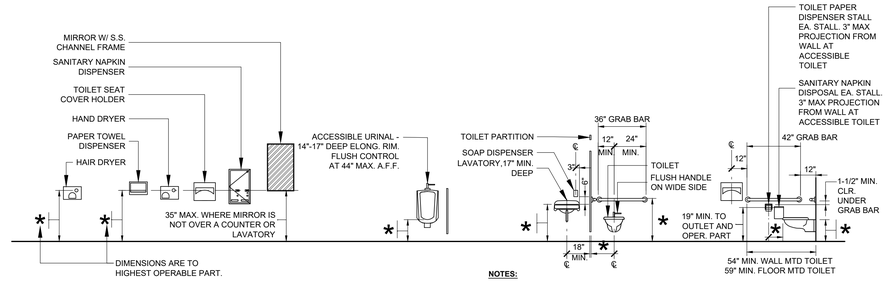


9 LAVATORY MOUNTING
ADULT HEIGHT — 1"=1'-0"

ACCESSIBLE MOUNTING HEIGHTS

FIXTURE	ADULT	AGES 5-8	AGES 9-12
TOILET OFFSET	17" - 18"	12" - 15"	15" - 18"
TOILET SEAT HEIGHT	17" - 19"	12" - 15"	15" - 17"
TOP OF GRAB BAR GRIPPING SURFACE	33" - 36"	20" - 25"	25" - 27"
T.P. DISPENSER OUTLET (A.F.F., TO CENTERLINE OF OUTLET OR ROLL)	19" MIN.	14" - 17"	17" - 19"
FURTHEST T.P. DISPENSER IN FRONT OF W.C.	7" - 9" TO CENTERLINE	7" - 9" TO CENTERLINE	7" - 9" TO CENTERLINE
LAV / SINK RIM HEIGHT	34" MAX.	31" MAX.	31" MAX.
LAV / SINK KNEE CLEARANCE	27" MIN. (29" MIN. AT APRON FOR LAVATORY)	AGE 6-8: 24" MIN. AGE 5: PARALLEL APPROACH	24" MIN.
URINAL HEIGHT	17" MAX.	17" MAX.	17" MAX.
URINAL PROJECTION	13-1/2" MIN.	13-1/2" MIN.	13-1/2" MIN.
URINAL FLUSH CONTROL HEIGHT	44" MAX.	44" MAX.	44" MAX.
HIGH D.F. SPOUT HEIGHT	38" - 43"	38" - 43"	38" - 43"
LOW D.F. APPROACH, SPOUT HEIGHT, AND SPOUT LOCATION FROM FRONT EDGE OF THE UNIT INCLUDING BUMPERS	FRONT APPROACH PER 11B-306, 36" MAX.A.F.F. AND 5" MAX. FROM FRONT EDGE OF THE UNIT	PARALLEL APPROACH IS PERMITTED IF SPOUT IS 30" MAX. A.F.F. AND 3-1/2" MAX. FROM FRONT EDGE OF THE UNIT	PARALLEL APPROACH IS PERMITTED IF SPOUT IS 30" MAX. A.F.F. AND 3-1/2" MAX. FROM FRONT EDGE OF THE UNIT
D.F. OPERABLE PARTS	6" MAX. FROM FRONT EDGE OF THE UNIT	6" MAX. FROM FRONT EDGE OF THE UNIT	6" MAX. FROM FRONT EDGE OF THE UNIT
CANTILEVER D.F. PROJECTION	18" - 19"	18" - 19"	18" - 19"
TOE CLEARANCE AT TOILET PARTITION	9" MIN.	12" MIN.	12" MIN.
SHELF HEIGHT	40" - 48"	40" - 48"	40" - 48"
MIRROR HEIGHT (BOTTOM EDGE OF REFLECTING SURFACE)	40" MAX. (ABOVE LAV. OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV. NOR COUNTERTOP)	40" MAX. (ABOVE LAV. OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV. NOR COUNTERTOP)	40" MAX. (ABOVE LAV. OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV. NOR COUNTERTOP)
MIRROR HEIGHT (BOTTOM EDGE OF REFLECTING SURFACE) IN DRESSING, FITTING, AND LOCKER ROOMS	20" MAX.	20" MAX.	20" MAX.
PAPER TOWEL DISPENSER, TOILET SEAT COVER DISPENSER HIGHEST OPER. PART	40" MAX.	36" MAX.	40" MAX.

NOTE: ALL HEIGHT DIMENSIONS ARE A.F.F. (OR A.F.G. FOR EXTERIOR). ALL HORIZONTAL DIMENSIONS ARE TO FACE-OF-FINISH.



NOTES:
* SEE ACCESSIBLE MOUNTING HEIGHTS TABLE FOR ACCESSIBLE DIMENSIONS.

5 TYPICAL FIXTURE MOUNTING HEIGHTS
SCALE: 1/4"=1'-0"

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2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

LICENSED ARCHITECT
MARK C. FINNEY
NO. C-24073
REN. 9-30-27
STATE OF CALIFORNIA

FIXTURES AND EQUIPMENT DETAILS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: GR, JT, MB
CHECKED BY: MF, JB, JT
FA PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-12-26

A9.6

DANA ELEMENTARY SCHOOL

920 WEST TEFFT STREET
NIPOMO, CA 93444

STRUCTURAL OBSERVATIONS

The structural engineer, or another registered design professional designated by the owner or owner's representative, (referred to as the "Structural Observer") shall perform periodic structural observations of construction per 2019 CBC Section 1704.6 and as defined in Section 202.

"Structural Observation" means the visual observation of the structural system by a registered design professional for general conformance to the approved construction documents. Structural observation does not include or waive the responsibility for inspections required by the code, the contract documents, the building official, or the owner. Additionally, structural observation does not waive any responsibility of the contractor to conform to all the requirements of the contract documents.

Structural observation shall consist of site visits at various stages of construction. Depending upon the Contractor's means, methods, sequences, or procedures, more than one structural observation may be required for each structural 'stage' in order to adequately observe the work throughout the project. Stages of construction requiring structural observation are as follows:

1. FOUNDATIONS AND OTHER CONCRETE WORK:
   Observe excavations, reinforcement, anchors and other embedded items, prior to concrete pour.
2. GRAVITY SYSTEM FRAMING:
   Observe framing members (e.g. studs and joists) and connections, prior to covering.
3. LATERAL SYSTEM FRAMING:
   Observe framing, blocking, connections, sheathing and nailing, prior to covering.
4. LATERAL SYSTEM HARDWARE:
   Observe holdown anchors, straps, clips and other connectors, prior to covering.
5. SHEARWALLS:
   Observe framing, sheathing and hardware, prior to covering.
6. COMPLETION OF THE STRUCTURAL SYSTEM:
   Observe completion of the structural system, after all deficiencies have been corrected, prior to covering.

GENERAL NOTES

1. The notes on this Title Sheet apply to and are in effect for all parts of the project, unless noted otherwise. Refer to the Structural Specifications (on Sheet S0.2 & Sheet S0.3) for additional structural requirements. Refer to the drawings, notes, and specifications of the Architect, Mechanical Engineer, Electrical Engineer, Civil Engineer, and other consultants for additional requirements.
2. **Do not scale these drawings.** Refer to written dimensions. Drawings are not necessarily to scale. The Contractor is to use architectural dimensions to lay out walls, framing, foundations, and other elements. The Contractor is to verify all dimensions and conditions and report any discrepancies to the Architect prior to commencing with any directly or indirectly related work.
3. T&S Structural's details are prepared to convey only structural aspects of each element shown. Non-structural information, including but not limited to fenestrations, fire-resistance, insulation, finishes, waterproofing, drainage, and flashing may not be included on the structural plans. The Contractor must obtain non-structural information related to each detail from the Architect, architectural plans, and plans provided by other consultants. Brace equipment per the manufacturer's specifications.
4. No deviations from these structural plans, details, and specifications are allowed without written approval from T&S Structural. Approval by an inspector or any other party does not constitute authority to deviate from these plans. Plan changes and addenda are subject to approval by DSA. The Contractor is responsible for processing changes, assembling permit documents, acquiring permits, and obtaining Owner approval for costs related to change orders.
5. Substitutions of specified products (i.e. Simpson Strong-Tie) for equivalent products are not recommended. Substitutions will be considered if the Contractor agrees to this procedure prior to substitutions being made: (a) Contractor provides T&S Structural with satisfactory evidence of product equivalence; (b) If satisfactory, Contractor agrees to reimburse T&S Structural for time and expenses to revise plans; and (c) Contractor agrees to resubmit plans to the DSA for approval.
6. Construction and materials must comply with and be installed in accordance with the requirements of all legally-constituted public authorities having jurisdiction, including all county, city, and local ordinances, as well as the Safety Orders of the State Industrial Accident Commission, OSHA. Receive all required approvals prior to commencement of construction.
7. The Engineer is not responsible for and does not have control or charge of construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the construction delineated by these plans. The Contractor or his/her agent(s) are responsible to supervise and direct all work and are solely and completely responsible for all construction means, methods, techniques, sequences, procedures, and conditions on the job site, including the safety of all persons and property during the entire period of construction. Periodic observations by T&S Structural personnel or representatives are not intended to include verification of dimensions or review the adequacy of the Contractor's safety measures on or near the construction site.
8. The Contractor is responsible to provide all shoring and bracing during construction to support all loads to which the structure and site may be subjected. Provide shoring for vertical cuts in excess of 5 feet per OSHA and the building official and as directed by the Soils Engineer.
9. Where inspection is required, the Special Inspector is to obtain DSA approval prior to work commencement. Copies of the inspection report(s) to be filed by the Special Inspector(s) must be given to the architect, engineer, owner, and building official. The Contractor is responsible for scheduling, coordination, and expenses involved in any and all inspections.
10. The Contractor is responsible to initiate a resolution to any conflicts within or between drawings, specifications, and/or manufacturer instructions by issuing an RFI. The most strenuous and/or costly option governs unless otherwise stated in response to an RFI. It is the Contractor's responsibility to identify and provide for any 'scope gaps' that may exist and be recognizable to a professional building contractor.
11. Each contractor responsible for the construction of a wind- or seismic-force-resisting system or component listed in the "Statement of Special Inspections" must submit a written statement of responsibility to the building official and the owner prior to the commencement of work on the system or component. (See CBC Section 1704.4 for specific requirements.)
12. "Clouding" shown on the construction documents is only for convenience for general major revisions and is not necessarily inclusive of all revisions to the drawings. The Contractor and others must review the construction documents completely and thoroughly and are not to depend upon the clouding being an indication of the full limit or extent of revisions.
13. All construction projects require inspection and maintenance following completion. Operation, inspection, and maintenance are the sole responsibility of the Owner. T&S Structural has no responsibility for any failures by the Owner or others to properly operate, inspect, or maintain the project(s) shown in these plans.
14. It is unlawful for any portion of a building to have load placed on it exceeding the design loads per CBC Section 106.3. Portions of commercial and industrial buildings designed for live loads exceeding 50 psf shall have signage installed per CBC Section 106.1.
15. Where plans, details, notes, and/or specifications (construction documents) are noted as being in a preliminary/progress state (e.g. "not for construction"), the Contractor must take this into consideration if choosing to use these progress documents for cost estimating, bidding, or any other purpose.
16. The plans, calculations, and specifications contained herein and provided herewith are the exclusive property of T&S Structural, © 2025. The use of these plans and specifications is restricted to the original site for which they were prepared and publication thereof is expressly limited to such use. Reproduction or publication by any method, in whole or in part, is prohibited. Title to these plans and specifications remains with T&S Structural without prejudice. Visual contact with these plans and specifications constitutes prima facie evidence of the acceptance of these restrictions.

STRUCTURAL DESIGN PARAMETERS

GENERAL PARAMETERS

Building Code	2022 CBC
Construction Type	Type V-B
Risk Category	II
Number of Stories	1
Max. Height (above grade)	16.75 ft
Roof DL/LL (psf)	15/20
Solar Allowance	3.0 psf
(Already Included, Where Applicable)	
Roof at Overhangs DL/LL (psf)	19/20
Suspended Ceiling DL/LL (psf)	5/0
Hard-Lid Ceiling DL/LL (psf)	12/10
Rain Intensity i (in/hr) (per CBC Fig. 1611.1)	2.0

SEISMIC DESIGN DATA (per CBC 1603.1.5):

Risk Category	II
Seismic Importance Factor, I	1.00
Site Class	D
Spectral Response Accelerations	S_S = 1.022
	S_1 = 0.376
Spectral Response Coefficients	S_{DS} = 0.832
	S_{D1} = 0.747
Seismic Design Category	D
Seismic Force Resisting System(s)	A.15*
Response Modification Factor, R	6.5
Seismic Response Coefficient, C_s	0.129
Design Base Shear (1.0E ~ C_sW)	20 kips
Redundancy Factor, ρ	1.0
Analysis Procedure Used	Equiv. Lat. Force

** See ASCE 7-16 Table 12.2-1*

SOILS VALUES

Bearing Pressure	2000 psf
Lateral Passive	375 pcf
EFP (at-rest, level)	35 pcf
EFP (active, level)	50 pcf
Friction Coefficient	0.40
Soil Classifications	SAND

WIND DESIGN DATA (per CBC 1603.1.4):

Basic Wind Speed, V	92 mph
Exposure Category	C
Internal Pressure Coefficient, GCpi	+/- 0.18
Wind Load Rating on Solar Panels	p_{away} = 39.0 psf (LRFD)
	p_{toward} = 6.9 psf (LRFD)
	p_{away} = 23.4 psf (ASD)
	p_{toward} = 4.1 psf (ASD)

Soils work must conform to the requirements and recommendations of the Soils (or "Geotechnical") Report: "UPDATD GEOTECHNICAL ENGINEERING AND GEOLOGIC HAZARDS REPORT" for DANA ELEMENTARY SCHOOL by EARTH SYSTEMS PACIFIC, dated MAY 06, 2025, File No. #301260-005,including all subsequent letters and addenda.

STANDARD ABBREVIATIONS

AB	anchor bolt
Abv.	above
A/C	air conditioning
Add'l	additional addendum
Add'm	addendum
Adj.	adjacent, adjustable
AFF	above finished floor
AISC	American Institute of Steel Construction
Alum.	aluminum
Alt.	alternate
APA	American Plywood Council
Approx.	approximate
Arch.	architect (ural)
ASTM	American Society of Testing & Materials
Auto.	automatic
Avg.	average
AWS	American Welding Society
Bd.	board
Bldg.	building
Blk(g).	block (ing)
Blw.	below
Bm.	beam
BN	boundary nailing
Bot.	bottom
BP	base plate
Brg.	bearing
Btwn.	between
BW	both ways
Cant.	cantilever (ed)
CBC	California Building Code grade
CDX	C-D plywood w/ exterior glue
Cem.	cement
CHBC	California Historic Building Code
CIP	cast-in-place
CJ	ceiling joist (s)
CJP	complete joint penetration
CL	center line
Clg.	ceiling
Clr.	clear (ance)
CM	centimeter (s)
CMU	concrete masonry unit
Coeff.	coefficient
Col.	column
Com.	common
Conc.	concrete
Conn.	connect (ion)
Const.	construction
Cont.	continuous, continue
Contr.	contractor
Corr.	corrugated
Ctr.	center
Ctrsk.	countersink
Cu.	cubic
d	penny (nails)
Dbl.	double
Deg.	degree
Demo	demolish, demolition
Dep.	depressed
DF	Douglas Fir
Dia(m).	diameter
Diag.	diagonal
Dim.	dimension (s)
Dist.	distance
Div.	division, divider
DJ	deck joist (s)
DL	dead load
Dn.	down
DSA	Div. of the State Architect
Dwg.	drawing
(E)	existing
Ea.	each
EF	each face
EFP	effective fluid pressure
El.	elevation (grade)
Elec.	electric (al)
Elev.	elevator, elevation
Embed.	embedded, embedment
EN	edge nail (ing)
Encl.	enclose (d), (ure)
Eng(r).	engineer (ed)
Eq. or EQ	equal
Equip.	equipment
Equiv.	equivalent
ES	each side
Est.	estimate (d)
Etc.	et cetera
EW	each way
EWEF	each way each face
Exist.	existing
Exp.	expand, expansion
Ext.	exterior, extended
Fdn.	foundation
FF	finished floor
FG	finished grade
Fin.	finish (ed)
FJ	floor joist (s)
Fl.	flange
Flr(g).	floor (ing)
FN	field nail (ing)
FOC	face of concrete
FOM	face of masonry
FOP	face of panel
FOS	face of steel (stud)
FP	fireplace
FR	fire rate (d), (ing)
Frmg.	framing
FS	far side
Ft.	foot, feet
Ftg.	footing
Fut.	future
Ga.	gage, gauge
Galv.	galvanized
GB	grade beam
GC	general contractor
Gen.	general
Gl.	glass, glazing, glazed
GLB	glue-laminated beam
Gr.	grade, grading
Gyp.	gypsum
HD	holdown
HDG	hot-dip galvanized
Hdr.	header
Hex	hexagonal
Hgr.	hanger
Hor (iz).	horizontal
HS	high strength
HSS	hollow structural section
Ht.	height
HVAC	Heating / Ventilation / Air Conditioning
IBC	International Building Code
ICC	International Code Council
ICC-ES	ICC Evaluation Service
ID	inside diameter
In.	inch (es)
Incl.	include (d), (s), (ing)
Info	information
Insp.	inspect (ion), (or)
Insul.	insulate (d), (ion)
Instl.	installation, install
Int.	interior
Inv.	invert (ed)
Jst.	joist
K	kip (1000 pounds)
KLF	kips per linear foot
KP	king post
KSF	kips per square foot
KSI	kips per square inch
LABC	Los Angeles City Building Code
Lam.	laminate (d), (tion)
LARR	Los Angeles Research Report
Lb(s).	pound (s)
Lg.	large
LF	linear (l) foot
Lin.	linear, lineal
LL	live load
LLH	long leg horizontal
LLV	long leg vertical
Long.	longitudinal
Lt(g).	light (ing)
LtWt.	lightweight
LVL	laminated veneer lumber
LWC	lightweight concrete
Mas.	masonry
Mat'l	material
Max.	maximum
Mbr.	member
Mech.	mechanic (al)
Med.	medium
MEP	Mech./Elec./Plumbing
Mezz.	mezzanine
MF	moment frame
Mfr.	manufacture (r)
Min.	minimum, minute (s)
Misc.	miscellaneous
MM	millimeter (s)
Mod.	modify, modified, modular
MS	machine screw
Mtl.	metal
(N)	new
N	north
N/A	not applicable
Nat.('l)	natural, national
NDS	National Design Specification for Wood Construction
Neg.	negative
NIC	not in contract
No.	number
Nom.	nominal
NS	near side
NSA	nelson stud anchor
NSG	non-shrink grout
NTS	not to scale
o.c. or oc	on center (s)
OD	outside diameter
OMF	ordinary moment frame
Opp.	opposite
OSB	oriented strand board
OSHPD	Office of Statewide Health Planning & Development
OT	overturning
Par.	parallel
PCF	pounds per cubic foot
Pen.	penetrate (ion)
Perf.	perforate (d), (tion)
Perim.	perimeter
Perp.	perpendicular
PJP	partial joint penetration
Pl.	plate
PL	property line
PLF	pounds per linear foot
Ply(wd).	plywood
Prefab.	prefabricated (ion)
Prelim.	preliminary
Proj.	project
Prop.	propery
PSF	pounds per square foot
PSI	pounds per square inch
PSL	parallel strand lumber
PT	pressure-treated, post tension (ed)
Pt.	point
PV	photovoltaic
Qtr.	quarter
Qty.	quantity
R(ad).	radius
Rd.	road
Rdwd.	redwood
Rebar	reinforcing bar (s)
Rec('d).	receive (d)
Rect.	rectangular
Ref.	reference
Reinf.	reinforce (d), (ing), (ment)
Req'(d).	require (d), (ment)
Ret.	retain (ing)
Rev.	revision (s), revised
RJ	roof joist (s)
Rm.	room
RO	rough opening
RR	roof rafter (s)
SAD	see architectural drawings
Sched.	schedule
SE	structural engineer
Shtg.	sheathing
Sim.	similar
SMF	special moment frame
SMS	sheet metal screw
SOG	slab on grade
Spec(s)	specifications (s)
Sq. or SQ	square
SS	grade select structural, stainless steel
ST	self-tapping
ST1	grade Structural 1 panel
Std(s).	standard (s)
St(l).	steel
Str(uct).	structural, structure
Surf.	surface
Susp.	suspended
SW	shearwall
Sym.	symmetry (ical), symbol
Syn.	synthetic
T&B	top and bottom
T&G	tongue and groove
Temp.	temporary, tempered
Th(k).	thick, thickness
Thru	through
T.O.	top of
TOB	top of beam
TOC	top of concrete
TOF	top of footing
TOG	top of grade
Tol.	tolerance
TOP	top of plate
TOS	top of slab, top of steel
TOW	top of wall
Trans.	transverse
Trim.	trimmer stud (s)
Typ.	typical
UBC	Uniform Building Code
UNO	unless note otherwise
Util.	utility (ies)
Var.	varies, varnish
Vent.	ventilate (ion), (or)
Vert.	vertical
VIF	verify in field
Vol.	volume
W	width, wide, water
W/	with
Wd.	wood
WF	wide flange
W/IN	within
Win.	window
W/O	without
WP	waterproofing (ing)
WS	wood screw
Wt.	weight
WTS	welded threaded stud
WHS	welded headed stud
WWF	welded wire fabric
WWM	welded wire mesh
Yd.	yard
∠	angle
@	at
∇	delta
Ø	diameter
#	number, pound (s)
/	per
+/-	plus or minus

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STRUCTURAL TITLE SHEET

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LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

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PROJECT NO:			DATE:
24149	DSA V3 SUBMITTAL: 06-15-26		

S0.1

FOUNDATIONS & CONCRETE

1. GENERAL

1.1 Soils values are per Geotechnical Report (or "Soils Report") by Earth Systems Pacific, Project No. 301260-005, dated May 06, 2025. This report and the recommendations contained therein shall be considered a part of the construction documents. *(It is the Contractor's responsibility to obtain a copy of the soils report and any addenda from the owner or owner's representative.)*

1.2 Refer to the Structural Design Parameters on the Structural Title Sheet for soil/foundation design values.

1.3 Special Inspections per DSA 103.

1.4 The Building Inspector shall inspect and approve grading and excavations prior to placement of forms, reinforcing steel or concrete.

1.5 The Soil Engineer/Geologist of record shall inspect and sign-off grading and excavations prior to placement of forms, reinforcing steel or concrete. In cases involving engineered fill, a soils engineer shall provide the necessary inspections, tests and approvals. The Contractor is responsible for geotechnical follow-up services as defined in the soils report.

1.6 Prior to the Contractor requesting a building department foundation inspection, the soils engineer shall advise the building inspector in writing that the building pad was prepared in accordance with the soils report and that the foundation excavations, the soil's expansive characteristics and bearing capacity conform to the soils report.

1.7 Refer the structural plans for foundation embedments; however, foundations shall not be embedded less than 18" below the lowest adjacent grade into approved competent soil, unless specifically noted otherwise. Foundations shall be deepened where necessary to conform to CBC Section 1808A setback requirements which require a minimum distance from the face of the foundation to the face of the descending slope equal to H/3 (where H is the height of the slope). The setback must be at least 5'-0" but need not exceed 40'-0".

1.8 Prior to construction, the soils engineer of record should review and approve the structural plans. Additionally, it is recommended that there be a preconstruction meeting between the owner, Contractor, and soils engineer to discuss testing procedures, scheduling, and inspections.

2. MATERIALS

2.1 Concrete shall have a strength of 3000 psi at 28 days, and a maximum slump of 5". W/C ratio is 0.50 max. for slabs, walls and columns, and is 0.55 max. for foundations. Special Inspection is not required, except where specified herein, on the structural plans, or by the Building Department.

2.2 Cementitious Material: Portland cement shall conform to ASTM C150, Type II, low-alkali. Fly ash shall conform to ASTM C618, Class F.

2.3 Special Inspection is required for structural slabs, walls, piles, caissons, flat plates, columns and beams. Exception: if the construction is of a minor nature and the Building Department waives the special inspection requirement and special inspection is not specified on the structural plans. (*CBC 1701A.1 and 1705A)*

2.4 Reinforcing steel shall conform to ASTM A615 (except as noted below), and shall be deformed, clean, and free of rust. Bars shall be 60 grade minimum (unless specified otherwise), except that #3 bars may be 40 grade. Reinforcing steel that is to be welded shall conform to ASTM A706 in lieu of A615. The welding of reinforcement shall be special inspected and conform to AWS D1.4. Exceptions:
- a) Reinforcing steel used in concrete shearwalls, moment frames, and earthquake-resisting components shall conform to ASTM A706, and shall be 60 grade (unless specified otherwise).

2.5 Aggregates shall be per ASTM C33. Maximum size 1½" for footings and 1" for all other work. Reduce maximum aggregate size as required to conform to ACI 318 Section 25.2.1. Coarse aggregate shall be crushed rock.

2.6 Non-shrink grout (5000 psi strength minimum UNO) material for baseplates, concrete tilt-panels, sill plates or other specified use shall be non-shrink grout by Five Star Products Inc., Quikrete, or approved equal, and installed at a "plastic" consistency, in accordance with approved methods and techniques. Surfaces shall be properly cleaned of foreign material prior to grouting operation.

2.7 Epoxy/Adhesive:
- a) Use Simpson SET-3G Epoxy (ICC ESR-4057), Hilti RE-500 V3 Adhesive (ICC ESR-3814), where designated on plans, or approved equal for cracked concrete, unless noted otherwise.
- b) Install only where specifically detailed by the Engineer. Refer to the ICC Evaluation Report for product and installation requirements.
- c) Contact the Engineer for product substitution when needed for special conditions, such as temperature extremes, fast cure or slow cure, low or high viscosity, low base material temperature, etc.
- d) Standard threaded anchor rods shall conform to ASTM F1554 Grade 36, UNO.
- e) High-Strength threaded anchor rods shall conform to ASTM A193 Grade B7 or ASTM F1554 Grade 105, UNO.
- f) Where exposed to weather, soil, or moisture, threaded anchor rods shall be hot-dipped galvanized per ASTM A153 Class C or D, or be stainless steel. Contact the Engineer when stainless steel is necessary.

2.8 Anchor Bolts: A307 or F1554 Grade 36 hex-headed, unless noted otherwise.

2.9 The Building Department may require the testing of any materials used in concrete construction to determine if materials are quality specified. Tests of materials and of concrete shall be made by an approved agency and at the expense of the Contractor; such tests shall be made in accordance with the standards listed in CBC Section 1903A. Tests and materials of reinforced concrete, and concrete durability, quality, mixing and placing, shall conform to CBC Sections 1903A, 1904A, and 1905A. Refer to the Building Department for additional testing and materials requirements.

3. EXECUTION

3.1 Slabs on Grade: See the plans and details for thickness, reinforcing, and supporting materials. Provide sawcuts or other control joints as directed by the architect and soils engineer, and per the structural plans when specified. Refer to the architectural plans for finishes.

3.2 Minimum lengths for rebar development, lap splices, and compression splices per Typical Details.

3.3 Dowels shall be provided for vertical and horizontal reinforcing bars in walls, columns, etc., and shall be of the same size and spacing as the supporting wall, columns, etc. Footing reinforcement shall be hooked into intersecting footings with standard 90 degree end hooks per Typical Details, unless noted otherwise on the plans. Per ACI 318 26.6.2.2, no rebar may be "wet set."

3.4 Reinforcing clearances for foundations shall be 3" min. when against earth and 2" min. when against a formed surface UNO. Other reinforcing clearances shall be 1 1/2" minimum UNO.

3.5 Removal of forms (formwork) supporting vertical surfaces shall be after 2 days min. and supporting beams or girders shall be after 15 days minimum.

3.6 Construction joints shall be prepared by wire brushing and cleaning and brushing in a paste of neat cement mortar immediately prior to pouring. Location of construction joints shall be approved by the Engineer.

3.7 Concrete Curing: Concrete shall be maintained above 50 deg. F and in a moist condition for at least the first 7 days after placement (provide 10 days min. for Type II cement & 14 days min. for Type IV or V cement per ACI 308). When formwork is removed from a surface prior to 7 days (the minimum time specified) after placement of concrete, the surface shall be kept continuously moist by spraying or by covering with wet burlap or curing cover. During hot weather, proper attention shall be given to ingredients, production methods, handling, placing, protection, and curing to prevent excessive concrete temperatures or water evaporation that may impair required strength or serviceability of the member or structure. Finishes are per the architect.

3.8 Sill Plate Anchorage: Wood sill plates in bearing walls and shearwalls shall be secured with minimum 5/8" dia. x 10" long anchor bolts (AB) with 7" minimum embedment into concrete (note that longer anchor bolts may be necessary for 3x sill plates or for other conditions). Anchorage shall include 3"x3"x0.229" plate washers per AF&PA SDPWS 4.3.6.1 (Simpson BP5/8-3 or BPS5/8-3, or Equivalent). The hole in the plate washer shall be permitted to be diagonally slotted with a width of up to 3/16" larger than the bolt diameter and a slot length not to exceed 1-3/4", provided a standard cut washer (see AF&PA SDPWS Appendix A) is placed between the plate washer and the nut. The plate washer shall extend to within 1/2" of edge of the sill plate on the sheathed side(s) of shearwalls. Spacing of anchor bolts shall not exceed 6'-0" o.c. Bolts shall be placed a maximum of 12" from wall corners, wall ends, and sill plate splices (but not less than $4^3/_8$"), and a minimum of two bolts per piece of sill plate are required. Refer to the Shearwall Schedule for maximum anchor bolt spacing at shearwalls, however the spacing shall not exceed 4'-0" o.c. (Holdown anchors shall not be counted as any of the required sill plate anchor bolts.) Use anchor bolt holders and stabilizers per the manufacturer's recommendations, or approved equivalent. Interior non-bearing partitions may be secured with shotpins per the "Wood" section of these specifications.

3.9 Coordinate holdown locations with all structural plans prior to installation. Holdown hardware shall be secured in place prior to foundation inspection and re-tightened just prior to enclosure. Holdowns shall be installed per manufacturer's specifications. Set holdowns tight on top of sill plate and against post; do not raise up off of sill plate UNO. Use anchor bolt holders and stabilizers per the manufacturer's recommendations.

3.10 Epoxy/Adhesive:
- a) Install only where specifically detailed by the Engineer. Special inspection of epoxy or adhesive applications is required. Install epoxy and adhesive anchors in accordance with the manufacturer's instructions and the requirements of the product's current ICC ESR approval report.
- b) Installation of adhesive anchors that are to be under sustained tension loading horizontal to vertically overhead installation shall be done by a certified adhesive anchor installer (AAI) as certified through ACI and in accordance with ACI 318 (Section 26.7.2).
- c) Adhesive anchors shall be installed in concrete having a minimum age of 21 days at time of anchor installation, per ACI 318 (Section 26.7.2). For installations sooner than 21 days, consult adhesive manufacturer.
- d) Refer to the ICC ESR report for restrictions on temperature of the base material at time of adhesive installation.

3.11 Minimum Spacing of Reinforcement Bars:
- a) Minimum clear spacing between parallel bars in a layer shall be one bar diameter but not less than one inch.
- b) For parallel reinforcement in two or more layers; bars in upper layers shall be placed directly above bars in lower layers and shall have a clear vertical distance between bars not less than one inch.
- c) Clear distance minimums between bars shall also apply to the bars of a contact lap splice and any adjacent bars of contact lap splices.

STRUCTURAL STEEL

1. GENERAL

1.1. Structural steel shall conform to the requirements of ASTM and shall be fabricated according to AISC practice and specifications for building, including QA/QC guidelines of AISC 360-16 Chapter N for fabrication, erection, and inspection. Steel deck fabrication, handling, and installation shall be per SDI-C-2017, SDI-QA/QC-2022, ANSI/RD-2017, and associated reference standards.

3.12 Special Inspections per DSA 103.

1.2. Fabricator Qualifications: A qualified fabricator, approved by the Building Department and the Owner, who has had review and approval by a certified special inspector. Approval shall be based upon review of the fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency.

1.3. Structural steel shop drawings shall be submitted to the engineer for review prior to fabrication.

1.4. Continuous special inspection of structural welding is required, by an inspector pre-qualified by the Building Department, in accordance with CBC Section 1705A.2. The following exceptions are permitted for welds not a part of the seismic-force-resisting system:
- a) Welding performed in a fabricator's shop where the fabricator is specifically registered and approved to perform such work without special inspection (CBC 1705A.2).
- b) The special inspector need not be continuously present during welding of the following items, provided the materials, welding procedures and qualifications of welders are verified prior to the start of the work; periodic inspections are made of the work in progress; and a visual inspection of welds is made prior to completion or prior to shipment of shop welding:
  - i) Single-pass fillet welds not exceeding 5/16" in size
  - ii) Floor and roof deck welding
  - iii) Welded studs when used for structural diaphragm or composite systems (but not part of the seismic-force-resisting system).
  - iv) Welded sheet steel for cold-formed steel framing members such as studs and joists
  - v) Welding of stairs and railing systems

1.5. Nondestructive Testing (NDT) of Welds of the seismic-force-resisting system is required per CBC Section 1705A.12 and 1705A.13 and Chapter J of AISC 341-16.

2. MATERIALS

Wide Flange Shapes (W and WT)	ASTM A992
Structural Plates and Bars[e]	ASTM A36 Stainless plates: ASTM A240 Type 304[a] Stainless bars: ASTM A276 Type 304[a]
Angles (L) Channels (C and MC)	**ASTM A36 or ASTM A572 Grade 50**
Structural Tubes HSS (Hollow Structural Section)	ASTM A500 Grade C (Rectangular Fy = 50ksi, Round Fy = 46ksi)
Steel Pipe	ASTM A53 Grade B[f]
HP Shapes	ASTM A572 Grade 50
Structural Bolts[b]	ASTM A307 Grade A High Strength Bolts: Group A ASTM F3125 Gr. A325 High Strength Nuts: ASTM A563 Hardened Washers: ASTM F436
Anchor Rods	ASTM F1554 Grade 55 UNO
Shear Studs	ASTM A108[c] UNO
Threaded Rods	ASTM A36 or A307 UNO
Welding Electrodes	E70XX[d] UNO

a. If welded use Type 316.
b. American Standard Regular Bolts.
c. Type A for wood or light-gage steel. Type B for concrete-filled steel deck, concrete, and all other applications. Per AWS D1.1 Clause 7.2.6
d. Minimum CVN toughness of 20 ft-lb. at -20ºF using AWS A5 classification test methods.
e. Refer to section 2.1 for moment frame applications.
f. "STD" Indicates Standard Weight, "EXT" indicates Extra Strong, and "DBL" indicates Double-Extra Strong

2.1. Plates, rods and anchors used in moment frame applications shall match steel grade and/or type used in moment frame.
- a) Plates in Ordinary Moment Frames shall conform to ASTM A529 requirements.
- b) Plates in Special Moment Resisting Frames shall conform to ASTM A572 Gr. 50 requirements (UNO).
- c) Rod and anchor welding requirements shall be determined by engineer, and depend on ASTM F1554 specifications (UNO).

2.2. Non-shrink grout (5000 psi strength minimum UNO) material for baseplates shall be non-shrink grout by Five Star Products Inc., Quikrete, or approved equal, and installed at a "plastic" consistency, in accordance with approved methods and techniques. Surfaces shall be properly cleaned of foreign material prior to grouting operation.

3. EXECUTION

3.1. Welding shall be performed using SMAW, SAW, GMAW, or FCAW processes with approved electrodes conforming to ASTM A-233 and applicable AWS specifications.

3.2. For partial-joint-penetration ("PJP") groove welds, do not use any combination of groove type and welding process which would result in an effective throat less than the full depth of the groove (e.g. do not use 45º bevels in combination with either SMAW processes or GMAW/FCAW processes in the vertical or overhead position).

3.3. Minimum preheat and interpass temperatures shall be provided for welds, including tack welds, in accordance with AWS D1.1, Table 3.2. The maximum preheat and maximum interpass temperature permitted is 550º F, measured at a distance of 1 in. from the point of arc initiation.

3.4. Welding shall be performed by welders certified in accordance with AWS D1.1 clause 7.2.6 Type B. Special inspections (see General above) shall be arranged, with Building Department approval, at the expense of the Contractor.

3.5. Use weld tabs (backing bars) at flange plate and shear plate to column connections. After welding, remove the weld tabs and finish to a smooth contour per 3.12.3 of AWS D1.1-2010. Weld tab removal may be performed by air carbon arc cutting (CAC-A), air carbon arc gouging (ACAG), grinding, chipping, or thermal cutting. In addition, after removing the backing bar backgouge the weld root to sound metal, weld backgouged region and finish welding using a reinforcing fillet weld with a minimum leg size of 5/16" or the root opening plus 1/16", whichever is larger.

3.6. Exposed welds shall be filled and ground smooth where metal will come in contact with the public, unless reasonably smooth and uniform welds have been provided. Additional finish requirements are per the architect.

3.7. Bolt holes in steel plates and shapes shall be AISC "standard holes," unless specifically noted otherwise. Bolt holes shall be drilled 1/32" min. to 1/16" max. larger than the bolt diameter.

3.8. Powder-Actuated or Power-Driven Fasteners (or "Shot Pins"):
- a) Shall be by Hilti Inc., Simpson Strong-Tie or approved equal. Product and installation shall be per the manufacturer's respective ICC report: ICC ESR-2269 (Hilti X-U), ICC ESR-2811 (Simpson GDP), or per approved equal.
- b) Shank diameter of shot-pins shall be 0.145" min. , with a min. 3/4" diameter washer and 1 1/4" embedment (UNO).
- c) Shotpins may be used for attachment of miscellaneous furring, framing, and interior non-bearing walls to concrete or masonry. (Anchor bolts, per the "Foundations & Concrete" section of these specifications, must be used for sill plates in shearwalls and bearing walls.)

3.9. No holes other than those specifically detailed shall be allowed through structural steel members. No cutting or burning of structural steel will be permitted without prior consent of the Engineer.

3.10. Steel exposed to weather, soil, or moisture shall be galvanized or have similar corrosion protection. Steel embedded in concrete shall have the same cover requirements as for reinforcing steel (rebar), unless the embedded steel is galvanized or has similar corrosion protection. Finishing requirements for exposed steel are per the Architect.

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STRUCTURAL SPECIFICATIONS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
-		

DRAWN BY: AMB
T&S NO: 240520
CHECKED BY: BTD
PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-15-26

S0.2

WOOD

1. GENERAL

1.1. The framing notes on the drawings form a part of this section and have the same force and effect as written out in full herein. Refer to the architectural specifications for additional requirements.

3.13 Special Inspections per DSA 103.

2. MATERIALS

2.1. Lumber: shall be Douglas Fir-Larch, S4S, unless noted otherwise (this does not include Douglas Fir-Larch-North or Douglas Fir-South), and it shall be manufactured, graded, and bear the grade mark of WCLIB Standard Grading Rules 16 or WWPA Grading Rules; moisture content at time of installations shall not be over 19% or less than 7%.

Member	Grade	F_b (PSI)
2x & 3x Studs & Joists	No. 1 (Where Noted)	1,200
2x & 3x Studs & Joists	No. 2 UNO	900
Posts and Beams (4x and Larger)	No. 1 & Better	1,200
LVL (per ICC ESR-1387)	2.0E	2600
LSL (per ICC ESR-1387)	1.55E	1900
PSL (per ICC ESR-1387)	2.2E	2900

a) Preservative Treatment: Lumber in contact with concrete or masonry, or where exposed to weather, moisture or soil, shall be preservative pressure-treated per AWPA Standards (or "wolmanized" for PSL members) and CBC Section 2304.12.2.7. Each piece of lumber shall bear the mark of an approved testing agency. ACQ-treated shall be used when it is exposed to weather or may come into contact with soil, moisture or "liquid" water (e.g, rain, seepage, surface run-off, etc.). Borate-treated wood may be used for interior dry conditions (such as a sill plate on a concrete or masonry wall that will be covered and waterproofed). The maximum moisture content of treated wood is 14%. When necessary to cut, notch, bore, or splice treated lumber, thoroughly paint newly cut surfaces with same preservative used in the original treatment of the lumber.

b) Clearances to Soil: The floor assembly (including posts, girders, joists and subfloor) shall be of naturally durable or preservative-treated wood, in accordance with AWPA U1 (Commodity Specifications A or F) for above-ground use (per CBC 2304.12.2.6) where any of the following conditions occur:
   i) Wood joists or the bottom of a wood structural floor without joists are closer than 18", or wood girders are closer than 12" to the exposed ground in crawl spaces or unexcavated areas located within the perimeter of the building foundation.
   ii) Wood framing members, including wood sheathing, which rest on exterior foundation walls and are less than 8" from exposed earth.

2.2. Sheathing: Shall be APA rated; thickness per plan; Panel Index (PI) or "Roof/Floor span rating" per plan, however rating shall not be less than 40/20 for floor sheathing or 24/0 for roof sheathing. Additionally, sheathing shall conform to DOC PS 1 or PS 2, CBC Section 2308.5.11, Table 2308.5.11, and to the following (or better), except where noted otherwise:
a) Where sheathing may be subjected to repeated wetting and redrying or long-term exposure to weather or similar conditions:
   i) "Exterior Plywood" – Grade C-C or Structural 1 C-C with exterior glue, 4-ply minimum, per APA PS 1-09.
b) Other conditions:
   i) Plywood – Grade C-D with exterior glue (aka "CDX"), Exposure 1 and 4-ply minimum, per APA PS 1-09.
   ii) Composite Panel, Oriented Strand Board (OSB), or other Mat-Formed Structural-Use Panel – Exposure 1, per APA 1-09 or 2-10.
   iii) Where "Structural 1" (or "Struct 1" or "ST1") is required per the plans, use Grade Structural 1 sheathing per APA PS 1-09 or 2-10.

2.3. Rough Hardware:
a) Nails: Provide common wire nails as indicated in the Fastening Schedule (CBC Table 2304.10.2) and the Structural Plans. See requirements below for fasteners in treated wood.
b) Bolts, Nuts, Washers, Lag & Wood Screws shall be of standard manufacture, conforming to the National Design Specification (NDS) of the American Forest & Paper Association (AF&PA), 2018 Edition. Hardware exposed to weather, soil or liquids shall be hot dip galvanized or stainless steel. Bolts shall conform to ASTM A307 or F1554 Grade 36, unless noted otherwise.
c) Framing Connectors:
   i) Metal connectors for wood construction shall be Simpson Strong-Tie, or approved equal, unless noted otherwise. Product callouts on plans refer to Simpson Strong-Tie model number. Approved Equals may only be used with prior approval from the Building Department and the Engineer.
   ii) Provide the type of nails specified by the manufacturer and fully drive nails into all holes of the connector (including round and triangular holes), unless specifically noted otherwise on the plans.
   iii) Connectors shall be galvanized or have another factory-applied protective finish.
   iv) Connectors and hardware exposed to weather shall have minimum G185 factory galvanized coating (or equivalent) or shall be post hot-dip galvanized or shall be stainless steel.
   v) Connectors in contact with pressure-treated or fire-retardant treated wood shall be minimum G185 factory galvanized coating (or equivalent) or shall be post hot-dip galvanized or shall be stainless steel per CBC 2304.10.6. *[Exception: If pre-approved by the Building Department, G90 or standard coating shall be allowed.]*
   vi) Bolts shall conform to ASTM A307 or F1554 Grade 36 unless noted otherwise.
   vii) Substitute LTP5 connectors for LTP4 connectors in cases where plywood thickness prevents all nails in the LTP4s from being driven into solid wood framing as detailed. (If the LTP5 nails cannot be driven into solid wood framing, contact T&S.) Connectors shall be installed in strict accordance with ICC ESR-3096 & ER-112.
d) Powder-Actuated or Power-Driven Fasteners (or "Shot Pins"):
   i) Shall be by Hilti Inc., Simpson Strong-Tie or approved equal. Product and installation shall be per the manufacturer's respective ICC report: ICC ESR-2379 (Hilti X-P), ICC ESR-2811 (Simpson GDP), or per approved equal.
   ii) Shank diameter of shot-pins shall be 0.145" min. , with a min. 3/4" diameter washer and 1 1/4" embedment (UNO).
   iii) Shotpins may be used for attachment of miscellaneous furring, framing, and interior non-bearing walls to concrete or masonry. (Anchor bolts, per the "Foundations & Concrete" section of these specifications, must be used for sill plates in shearwalls and bearing walls.)
e) Strong-Drive WSNTL SUBFLOOR Screws are recommended to be used in lieu of nails specified on the plans for attachment of floor and roof sheathing, unless specifically prohibited otherwise. Screws must be by Simpson Strong-Tie and installed in strict accordance with ICC ESR-1472. Substitutions by other manufacturers will only be allowed if substitute has an ICC approval with shear values equal to or greater than those in ESR-1472. Refer to the General Notes on the Structural Title Sheet.

3. EXECUTION

3.1. General Installation Requirements: Fabricate, size, install, connect, fasten, bore, notch, and cut wood and plywood with joints true, tight, and well-nailed, screwed or bolted as required, members to have solid bearing without being shimmed, unless noted otherwise. Set horizontal members subject to bending with the crown up. Install framing plumb, square, true and cut for full bearing. Splices are not permitted between bearings. Use full lengths unless otherwise specified. Notching, drilling, splicing, or cutting of any structural member is not permitted without prior approval. Reinforce or replace wood framing members damaged by erroneous cutting as directed by the engineer. Perform cutting for other trades under the direction of trade involved. Whenever necessary to avoid splitting, sub-drill for nails and screws with the diameter of the hole smaller than that of nails or screws.

3.2. Nailing: Conform to CBC Table 2304.10.2, unless specifically noted otherwise. Nail plywood as specified on the plans with perimeter nails not closer than ½" from the edges. Do not overdrive nails through the face grain of the plywood; over-driven plywood nails may result in rejection and replacement of plywood panel by Inspector or Engineer. Except for plywood, nails shall not be driven closer together than half their length nor closer to the edge or end of lumber than one-quarter their length. The penetration of nails or spikes into pieces receiving the point shall not be less than half the nail length, except that 16d may be used to connect pieces of 2" nominal thickness.

3.3. Lag Screws: Install lag bolts (or "screws") with the base of the head flush with the surface of the connected member. Bore lead holes approximately three-quarters of the diameter and same depth as shank (except when not required by the manufacturer, such as for Simpson SDS Screws). Provide a standard washer under the head of the lag when bearing upon wood. Install by using a wrench, not by driving with a hammer. Soap or other lubricant shall be used on the lag screws or in the lead holes to facilitate insertion and prevent damage to the lag screws.

3.4. Bolts: Drill bolt holes 1/32" to 1/16" larger than bolt diameter such that bolts fit tight. Provide standard washers under the heads and nuts when bearing upon wood. When bolting multiple members together, the threaded portion of the bolt may not extend more than 1/4 of the bolt bearing area. Holdown bolts shall be torqued tight. The inspector is to verify that the bolts are installed and tight.

3.5. Hardware Approvals: The following hardware shall be installed per the appropriate ICC (ESR) and IAPMO (ER) approvals listed below. (Verify current report number with the mfr. For hardware not listed, obtain report numbers from the mfr.)

HTT, LTP4, RSP4 & UFP10:	per ER-130, ICC ESR-2606, ESR-2613, ESR-2616
HDU, HDQ, HHDQ, & DTT2:	per ESR-2330
LU, LUS, LUP, AB, EPB & LCB/CB:	per ESR-3096, ESR-2549, & ER-3050
HGUS,IUS,HHGU,HU, and HUC:	per ESR-2549, & ESR-2552
SSTB & SB anchors:	per ESR-2611
SDS Screws:	per ESR-2236
Straps & Ties (CMST, CS, MST, L3, T2, H, LST & others):	per ICC ESR-2105, ESR-2613, & ESR-2920, ER-112

3.6. Sills on Concrete or Masonry: Anchor per "Foundations & Concrete" section of the Specifications. Tighten with washers and nuts to level bearing. Use pressure treated lumber per "Wood" Section of the Specifications.

3.7. Wood Stud Walls, Partitions, and Furring: Use studs of sizes and spacing shown on the plans, with single plate at bottom and doubled plate at top unless otherwise shown. Stagger joints in double members at top plate by at least four feet and splice joints per structural details. Studs shall be continuous between top and bottom plates, unless specifically noted otherwise. Additionally:
a) Wall Stud Sizes: (Unless specifically noted otherwise on the plans.) Use 2x4 studs at 16" o.c. for walls less than 10'-0" tall. Walls 10'-0" to 16'-0" tall shall be constructed of 2x6 studs at 16" o.c. Request specifically engineered wall details for walls greater than16'-0" tall.
b) Blocking: Provide min. one row of nominal 2" thick blocking of same width as stud, fitted snugly and spiked into studs at mid-height of partitions or walls over 6'-0" high. Provide blocking at a maximum spacing of 6'-0" o.c. Cripple walls (or "pony walls") less than 14" in height shall be solid blocking.
c) Notching: In exterior and bearing walls, notches in studs shall not exceed 25% of the stud depth (7/8" for 2x4 and 1 3/8" for 2x6). Non-bearing partition walls may be notched not greater than 40% of the stud depth.
d) Drilling Holes: In exterior and bearing walls holes in studs shall not exceed 40% of the stud depth (1 3/8" for 2x4 and 2 1/4" for 2x6). Non-bearing partition walls may be drilled not greater than 60% of the stud depth.
e) Angles and Overhangs: Form corners (and where stud partitions and wood vertical furring meet) with blocked triple studs or as detailed. Form openings in wood partitions with double studs at each side, and 4x headers across top resting on short studs at each end. Headers shall be 4x6 min., unless noted otherwise on the plans.
f) Bearing: Provide a minimum of 1½" of bearing for headers unless noted otherwise on plans. Members bearing on prefabricated hangers are to have full bearing and nailing per manufacturer's specifications.

3.8. Posts: Posts on upper levels shall be stacked on posts of equal size at levels below, unless a larger post is specified on the plans. Blocking shall be used to fully transfer the post area through floors. This arrangement shall continue until the post is supported by a designed beam or the foundations. Posts inside walls shall bear on sill plates, and isolated posts shall be seated in Simpson post or column bases, unless noted otherwise on the plans. Posts shall be continuous between top and bottom plates, unless specifically noted otherwise. Headers framing into continuous posts without trimmer studs shall be supported in Simpson HUC hangers unless noted otherwise on the plans.

3.9. Roof and Ceiling Framing: Provide the rafters, joists, and purlins as shown on the plans. Place with the crown edge up. Conform to the following requirements unless noted otherwise:
a) Bridging/Blocking: Provide min. 2x thick solid wood blocking, cut in between and the same depth as the joists at a spacing of no greater than 8'-0" o.c., unless noted otherwise. Provide blocking at plywood panel edges, unless noted otherwise (see below). Refer to the plan for additional requirements (e.g. where 3x blocking or closer nail spacing is required).
b) Bridging/Blocking in I-Joist Framing: When using I-joists, bridging or blocking at 8'-0" o.c. may not be required. In I-joist roofs and ceilings, install blocking or cross-bridging in accordance with the manufacturer's specifications, and only omit the blocking or cross-bridging when specifically allowed to by the manufacturer. Note that blocking is required in other locations specified herein and on the plans.
c) Roof Sheathing: Install plywood panels with the face grain across the framing and close joints and nail at each support. Nail with common nails specified on the framing plans. Provide cant strips and saddles where shown or necessary to pitch water to drain. Sheathing installation shall conform to APA recommendations. Per AF&PA best practices, we recommend providing 1/16" to 1/8" max. spaces at all panel edge and end joints.
d) Sheathing Joints: Provide min. 2x thick solid blocking of the same depth as the joists (or top chords) or 3x4 flat blocking under plywood edges. When specifically allowed per the plans or approved in writing by the Engineer, sheathing clips such as Simpson "PSCL" clips may be used in lieu of solid blocking. Provide these metal clips midway between framing members at the unsupported edges of plywood where members are spaced at 16" o.c. or more.
e) Use LU hangers for sawn lumber framing, unless noted otherwise per plan. Provide hangers to match framing member size. Connectors shall be installed in strict accordance with ICC ESR-2552.

3.10. Shearwalls: Shearwall type and nailing shall be per the plans and the shearwall schedule on plans. Shearwalls shall extend horizontally between openings unless noted otherwise. Shearwall lengths shown on plans are minimum required. Upper floor shearwalls shall extend through attics to the roof diaphragm. (OSB may be used in lieu of Plywood per the "Sheathing" section of these specifications; plywood may not be substituted for OSB without consent of T&S.) Conform to the following requirements unless noted otherwise:
a) Transfer nailing and anchorage shall be per the structural details. Over driving of nails through the panel surface may be cause for rejection of panel by the Inspector or the Engineer. Shearwall and holdown anchors shall be nailed with common nails. Edge nails to have a minimum ½" edge distance.
b) Per AF&PA best practices, we recommend providing 1/16" to 1/8" max. spaces at all panel edge and end joints.
c) Fasteners in pressure-treated wood (including foundation sill plates) shall be of hot-dipped zinc coated galvanized steel or stainless steel (per CBC 2304.10.6).
d) Where 3x framing is required, stagger edge nails. 3x framing, as noted on the shearwall schedule, is required as follows:
   i) At panel joints.
   ii) Sill plates on masonry or concrete.
   iii) Sill plates at two-sided shearwalls, i.e. sheathing on both sides. (At existing conditions, where approved by the engineer, plates may be double 2x's spiked w/ 2-16d at 6" o.c. with boundary nails staggered between alternate plates.)

3.11. Engineered Lumber:
a) Parallel Strand Lumber (PSL), Laminated Veneer Lumber (LVL), and Laminated Strand Lumber (LSL) Beams shall be manufactured by Weyerhaeuser Trus Joist. Installation shall be in accordance with the manufacturer's specifications and the approved ICC Evaluation Report (ESR-1387). Substitutions will only be allowed with prior written approval of the Engineer.
b) Installation shall be in accordance with the approved ICC Report and per the manufacturer's specifications.
c) LVL beams shall comprise of multiple 1¾" thick members and be connected with 16d common nails, ½" bolts or ¼" lag screws in accordance with the manufacturer's specifications. If thicker LVL beams are available from the manufacturer a single solid piece may be used in lieu connecting multiple 1¾" thick pieces.
d) Beam bearing shall be 1½" minimum length and the full width of the beam. Lateral support of beams at bearing points is required. Additionally, lateral support of beam compression edge is required at 24" o.c.
e) Beams shall not be cut, notched or drilled without specific written approval of the manufacturer.
f) Minimum Nail Spacing Along Member Edge:

Nail Type and Size		LVL	PSL		LSL
		Minimum Member Thickness (in.)			
Penny Weight	Dia. x Length	1.5	1.75	1.25	≥1.75
8d Common	0.131x2.5	4"	4"	4"	3"
10d Common	0.148x3.0	5"	4"	4"	3"
12d Common	0.148x3.25	5"	4"	4"	3"
16d Common	0.162x3.5	8"*	6"	6"[1]	6"[1]

*Minimum Spacing decreased to 5 in when nail penetration ≤ 1.25"
[1] Minimum Spacing decreased to 4 in when nail penetration ≤ 1.25"

g) Engineered wood members shall not be used in locations subject to weather or moisture, unless fully protected from moisture. When engineered wood members are delineated on the plans for use in exterior or exposed conditions, provide protection per the architect, or use wolmanized or preservative-treated lumber or similar wood with weather resistance. Obtain approval from the Engineer prior to any substitutions.
h) Other manufacturers' products will be considered, however they may only be used with prior written approval from the Engineer.
i) Use HU hangers for LVL and LSL framing unless noted otherwise per plan. Provide hangers to match framing member size. Connectors shall be installed in strict accordance with ICC ESR-2552.

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STRUCTURAL SPECIFICATIONS

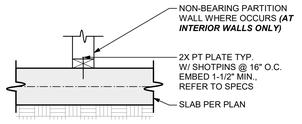
NEW CLASSROOMS AT
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REVISIONS

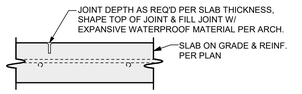
NO.	ITEM	DATE

DRAWN BY:	T&S NO:	AMB
CHECKED BY:	240520	BTD
PROJECT NO:		DATE:
24149	DSA V3 SUBMITTAL:	06-15-26

S0.3



TYP. NON-BEARING WALL TO SLAB

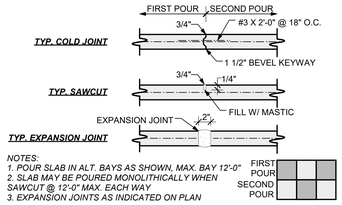


MAX. SPACING OF CONTROL JOINTS*

SLAB -ON-GRADE THICKNESS	*SPACING IF MAX. AGGREGATE SIZE ≤ 3/4"*	*SPACING IF MAX. AGGREGATE SIZE ≥ 3/4"*	*CONTROL JOINT DEPTH*
4"	8'-0" O.C. MAX.	10'-0" O.C. MAX.	7/8"
5"	10'-0" O.C. MAX.	13'-0" O.C. MAX.	1"
6"	12'-0" O.C. MAX.	15'-0" O.C. MAX.	1 1/4"

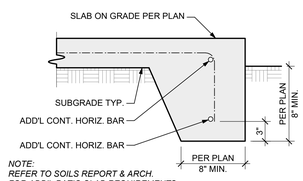
**NOTE: FINAL LOCATION(S) AND CONFIG. OF CONTROL JOINTS SHALL BE APPROVED BY ARCH. AND COORDINATED BETWEEN THE ARCHITECT AND THE CONTRACTOR. CONTROL JOINTS AND SPACINGS SHOWN HERE ARE ONLY SUGGESTIONS - NOT A STRUCTURAL ISSUE. USE OF CONTROL JOINTS IS INTENDED TO HELP CONTROL WHERE MOST OF THE CRACKING WILL OCCUR, FOR VISUAL PURPOSES, NOT TO PREVENT CRACKING.*

SUGGESTED SLAB CONTROL JOINTS



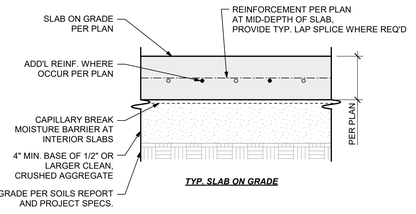
NOTES:
1. POUR SLAB IN ALT. BAYS AS SHOWN, MAX. BAY 12'-0"
2. SLAB MAY BE POURED MONOLITHICALLY WHEN SAWCUT @ 12'-0" MAX. EACH WAY
3. EXPANSION JOINTS AS INDICATED ON PLAN

TYP. SLAB JOINTS

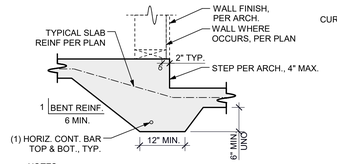


NOTE:
REFER TO SOILS REPORT & ARCH FOR ADD'L PATIO SLAB REQUIREMENTS

TYP. EDGE FOR EXTERIOR (SITEWORK) SLABS

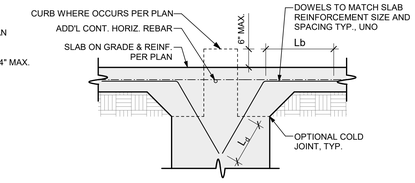


TYP. SLAB ON GRADE

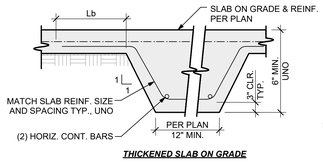


NOTES:
1. SLABS AND SUBGRADES PER PLAN
2. MIN. STEEL CLEARANCES PER GENERAL NOTES UNO
3. REFER TO ARCH. FOR FINISHES ON AND IN CONC.

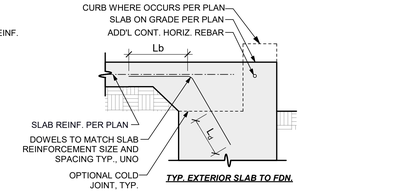
THICKENED SLAB FDN. W/ STEP



TYP. INTERIOR SLAB TO FDN.

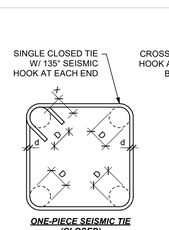


THICKENED SLAB ON GRADE

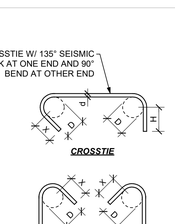


TYP. EXTERIOR SLAB TO FDN.

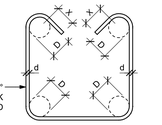
TYP. SLAB ON GRADE DETAILS (12)



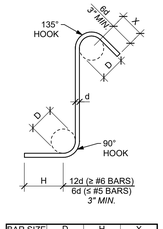
ONE-PIECE SEISMIC TIE (CLOSED)



CROSSTIE



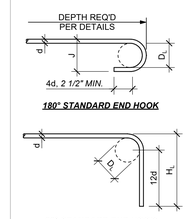
STIRRUP



BAR SIZE	D	H	X
#3	1 1/2"	3"	3"
#4	2"	3"	3"
#5	2 1/2"	3 3/4"	3 3/4"
#6	4 1/2"	9"	4 1/2"
#7	5 1/4"	10 1/2"	5 1/4"
#8	6"	12"	6

D = INSIDE BEND DIAMETER
d = NOMINAL BAR DIAMETER

STIRRUPS, TIES, AND CROSS-TIES



180° STANDARD END HOOK

90° STANDARD END HOOK

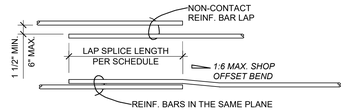
BAR SIZE	D_b	H
#3	2 1/4"	6"
#4	3"	8"
#5	3 3/4"	10"
#6	4 1/2"	12"
#7	5 1/4"	14"
#8	6"	16"
#9	9 1/4"	19 1/2"
#10	10 1/4"	22"
#11	11 1/2"	24"

D_b = INSIDE BEND DIAMETER
d = NOMINAL BAR DIAMETER

STANDARD END HOOKS FOR MAIN REINFORCEMENT

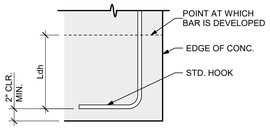
NOTES:
1. ALL BAR BEND DIAMETERS AND END LENGTHS MUST CONFORM TO ACI 318 AND CRSI MANUAL OF STANDARD PRACTICE.
2. CONSECUTIVE CROSSTIES ENGAGING THE SAME LONGITUDINAL BAR SHALL HAVE THEIR 90 DEG. HOOKS AT OPPOSITE SIDES OF THE STRUCTURAL MEMBER, EXCEPT AT EDGE BEAMS. EDGE BEAMS W/ SLABS AT ONE SIDE OF THE BEAM ONLY SHALL HAVE THE 90 DEG. HOOKS ON THE SLAB SIDE.

TYP. REINFORCEMENT BAR BENDS



TYPICAL LAP SPLICE

TYP. REINFORCEMENT DETAILS (2)



REBAR LAP SPLICE & Ldh — *3000 PSI CONC. 60 KSI REBAR*

BAR SIZE	*1-1/2" CLR.* MIN. REINF.* LAP SPLICE (CLASS B, TOP BAR)	*2" CLR.* MIN. REINF.* LAP SPLICE (CLASS B, TOP BAR)	*STD. HOOK EMBED (Ldh**)* HOOK DEVELOPMENT LENGTH
	Lb	Lb	
#3	17" MIN.	17" MIN.	6"
#4	23" MIN.	23" MIN.	8"
#5	28" MIN.	28" MIN.	10"
#6	34" MIN.	34" MIN.	12"
#7	56" MIN.	49" MIN.	14"
#8	70" MIN.	56" MIN.	16"

** MIN. OF: 1) LEAST CLEAR COVER TO EDGE OF CONCRETE, OR; 2) 1/2 OF LEAST CENTER-TO-CENTER BAR SPACING*
*** 2.5" MIN. SIDE COVER AND 2" MIN. COVER AT EXTENSIONS REQUIRED*

REBAR LAP SPLICE & Ldh - 3KSI (3)

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SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

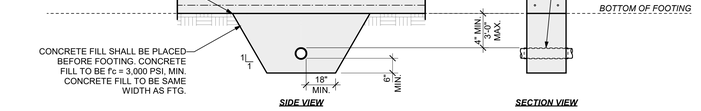
FINNEY ARCHITECTS
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San Luis Obispo, CA 93401

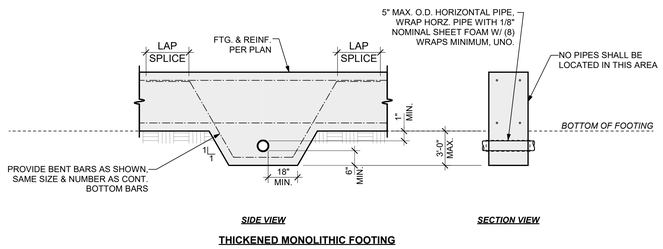
NOTE: NO PIPE PENETRATIONS ARE ALLOWED IN THE FOOTING UNLESS SPECIFICALLY NOTED ON THE PLAN AND APPROVED BY SEOR.



SIDE VIEW ***SECTION VIEW***

CONCRETE FILL PLACED PRIOR TO FOOTING

OR

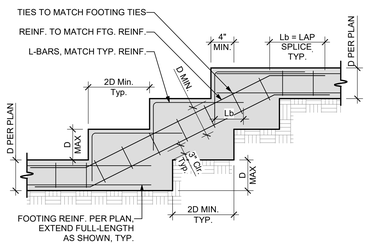


SIDE VIEW ***SECTION VIEW***

THICKENED MONOLITHIC FOOTING

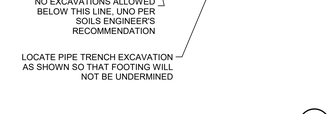
TYP. PENETRATIONS BELOW FOOTINGS (24)

NOTE: THIS DETAIL IS REQUIRED FOR ANY FOOTING EXCEEDING A 1:10 SLOPE UNO.

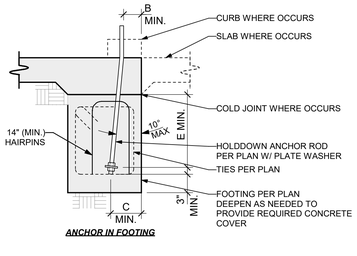


TYP. STEPPED FOOTING (25)

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TYP. PIPE & TRENCH ADJ. TO FDN. (18)



ANCHOR IN FOOTING

HOLDOWN	ROD DIA.	E	C	B	HAIRPINS	PL. WASHER
HDU5	5/8"	12"	4"	1-3/4"	(1) #4	1/2" x 1-3/4" x 1-3/4"

HOLDOWNS & INSTALLATION TO COMPLY WITH ICC ESR-2330
NOTE, CAPACITIES ARE 80% OF LISTED VALUES PER IR-A5

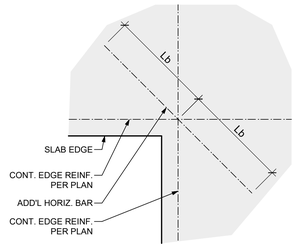
NOTES:
1. THREADED ROD PER MFR. SPECS. W/ PLATE WASHER
2. EMBEDMENTS PER TABLE ASSUME MIN. (1) CONT. BAR THROUGH BREAKOUT ZONE OF ANCHOR
3. 8" MIN. STEMWALL WIDTH REQUIRED
4. VERTICAL WALL REINF. BAR REQUIRED WITHIN 9" OF EACH SIDE OF ANCHOR (IN ADDITION TO ANY REQUIRED HAIRPINS).
5. ANCHOR ROD MAY BE BENT A MAX OF 10° TO MAINTAIN REQUIRED CONCRETE COVER AND CLEARANCES.
6. ANCHOR ROD SHALL BE EMBEDDED BY DISTANCE "E" BELOW LOWEST COLD JOINT (IF CONCRETE IS NOT MONOLITHIC).

TYP. EMBEDMENT DETAILS (20)

'T' INTERSECTION

'L' INTERSECTION

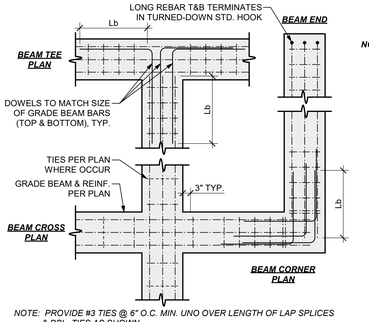
TYP. STEMWALL CONNECTIONS (14)



SLAB RE-ENTRANT CORNER (15)



FOOTINGS
(APPLY TO ALL CONDITIONS EXCEPT WHERE DESIGNATED GRADE BEAMS OCCUR)

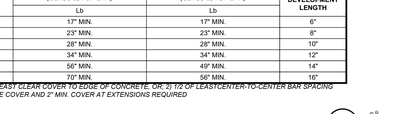


NOTE: PROVIDE #3 TIES @ 6" O.C. MIN. UNO OVER LENGTH OF LAP SPLICES & DBL. TIES AS SHOWN.

GRADE BEAMS
(APPLY ONLY AS SPECIFICALLY NOTED ON PLANS)

TYP. FOUNDATION CONNECTIONS (10)

NOTE: NO PIPE PENETRATIONS ARE ALLOWED IN THE FOOTING UNLESS SPECIFICALLY NOTED ON THE PLAN AND APPROVED BY SEOR.



PLAN VIEW ***SECTION VIEW*** ***PIPE IN FOOTING***

TYP. VERTICAL PIPE PENETRATION
NOTE: NO PIPE SHALL BE LOCATED WITHIN 24" OF A HOLDOWN ANCHOR.

VERT. FOOTING PENETRATIONS (5)

REVISIONS NO.	ITEM	DATE

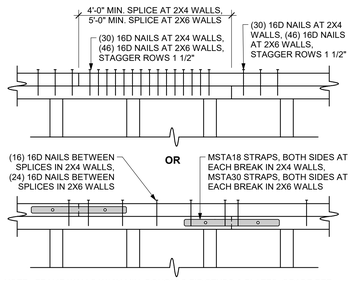
DRAWN BY:	T&S NO:	AMB
CHECKED BY:	240520	BTD
PROJECT NO: 24149	DSA V3 SUBMITTAL:	DATE: 06-15-26

TYP. STRUCTURAL DETAILS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

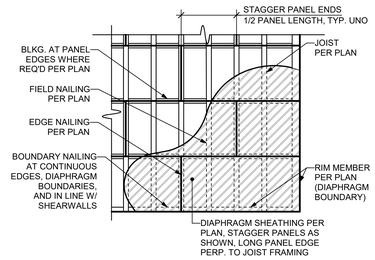
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NOTE: FRAME WALLS W/ 2X MIN. DOUGLAS FIR STUDS & PLATES, GRADE PER SPECIFICATIONS UNO ON PLAN AT PLATES WIDER THAN 2X6, USE 2-2X6 SPLICE VALUES UNO

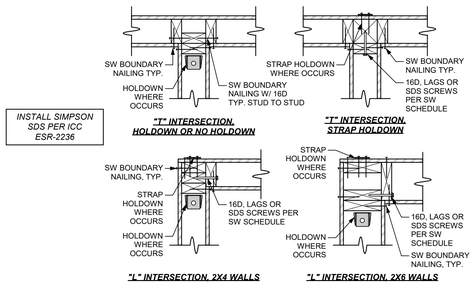
TYP. 2-2X TOP PLATE SPLICE 16



NOTES:
1. *SHEATHING PANELS SHALL ABUT ALONG CL OF FRAMING MEMBERS.*
2. *NAIL EDGE DISTANCE FROM PANEL EDGES AND MEMBER EDGES PER SPECS.*

TYP. PLYWOOD DIAPHRAGM 17

INSTALL SIMPSON SDS PER ICC ESR-2236



"T" INTERSECTION, HOLDOWN OR NO HOLDOWN

"T" INTERSECTION, STRAP HOLDOWN

"L" INTERSECTION, 2X4 WALLS

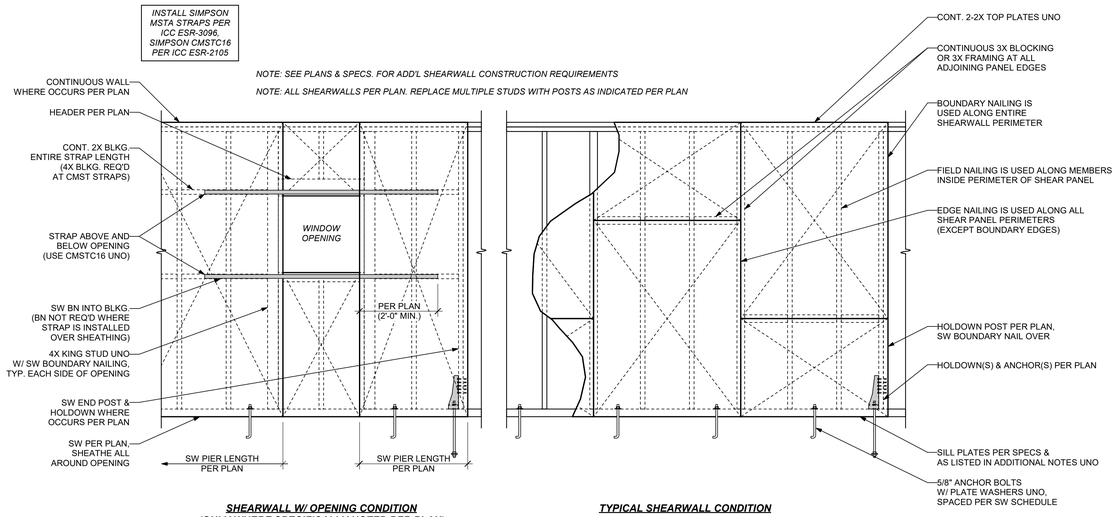
"L" INTERSECTION, 2X6 WALLS

TYP. SHEARWALL INTERSECTIONS 18

INSTALL SIMPSON MSTA STRAPS PER ICC ESR-3096, SIMPSON CMSTC16 PER ICC ESR-2105

NOTE: SEE PLANS & SPECS. FOR ADD'L SHEARWALL CONSTRUCTION REQUIREMENTS

NOTE: ALL SHEARWALLS PER PLAN. REPLACE MULTIPLE STUDS WITH POSTS AS INDICATED PER PLAN



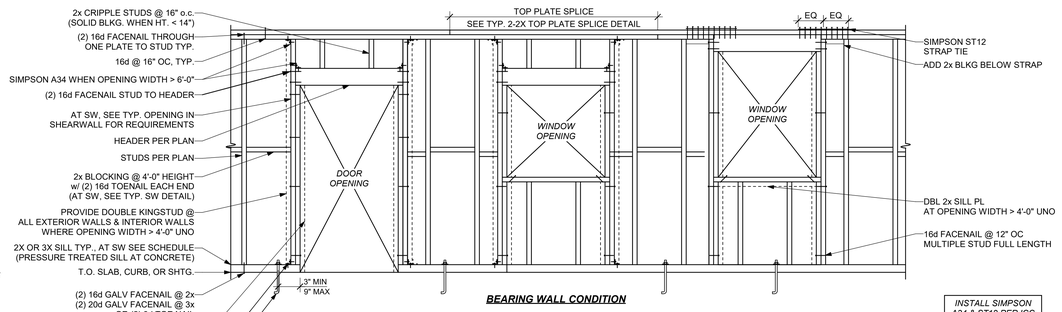
SHEARWALL W/ OPENING CONDITION (ONLY WHERE SPECIFICALLY NOTED PER PLAN)

TYPICAL SHEARWALL CONDITION

ADDITIONAL NOTES: REFER TO "WOOD" SECTION OF THE SPECIFICATIONS FOR ADD'L FRAMING REQUIREMENTS

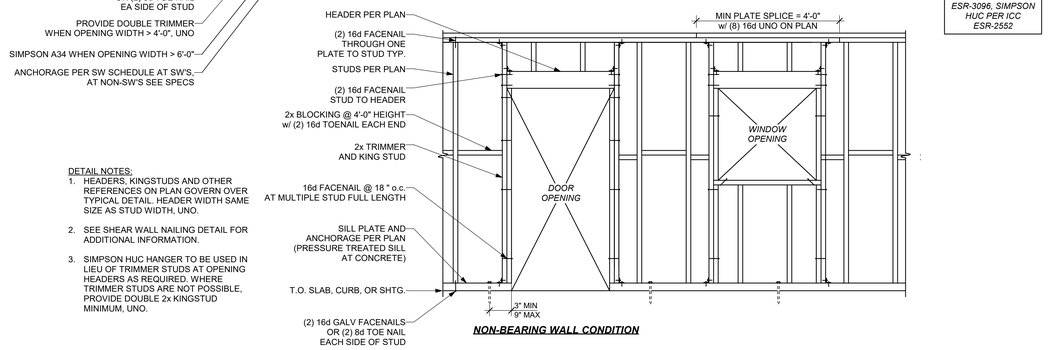
1. *ALL NAILS SHALL HAVE 3/8" EDGE DISTANCE, MIN. (1/2" EDGE DISTANCE, MIN. IN LA CITY).*
2. *SHEATHING FOR SINGLE-SIDED SHEARWALLS MAY BE PLACED ON EITHER FACE OF WALL UNO; PROVIDE MIN. LENGTH SPECIFIED AND COORDINATE W/ ARCH FINISHES.*
3. *SHEATHING PANELS SHALL ABUT ALONG CL OF FRAMING MEMBERS; MIN. PLYWOOD DIMENSION FOR USE IN SW SHALL BE 12".*
4. *FOR SHEARWALLS WITH CAPACITY OVER 350 PLF, 3X MEMBERS ARE REQUIRED FOR ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS; 2-2X MEMBERS MAY BE USED INSTEAD OF 3X MEMBERS ONLY IF THE 2X MEMBERS ARE JOINED WITH LAG OR SDS SCREWS W/ 3" MIN. LENGTH, SPACED PER THE SW SCHEDULE; SCREWS SHOULD BE STAGGERED BETWEEN INTERIOR AND EXTERIOR FACES OF THE 2-2X MEMBER WITH 1" EDGE DISTANCE.*
5. *FOR SHEARWALLS WITH CAPACITY OVER 350 PLF, PANEL JOINT AND SILL PLATE NAILING SHALL BE STAGGERED IN ALL CASES PER CBC TABLE 2306.3, FOOTNOTE G.*
6. *SILL PLATES ON MASONRY OR CONCRETE MUST BE 3X PRESSURE TREATED; ALL SILL PLATES FOR TWO-SIDED SHEARWALLS MUST BE 3X MEMBERS; SILL PLATES ON WOOD FRAMING FOR ONE-SIDED SHEARWALLS MAY BE 2X MEMBERS; WALL STUDS AND BLOCKING AT ADJOINING PANEL EDGES MUST BE 3X OR LARGER.*
7. *AT ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS NOT NOTED AS SHEARWALLS , BLOCKING SHALL BE PROVIDED BETWEEN JOISTS AND/OR RAFTERS WITH A35, RBC, OR LTP4 TO TOP PLATES @ 16" O.C. AT FLOOR AND 24" O.C. AT ROOF CONDITIONS, UNO.*

TYP. SHEARWALL FRAMING & NOTES 2



BEARING WALL CONDITION

INSTALL SIMPSON A34 & ST12 PER ICC ESR-3096, SIMPSON HUC PER ICC ESR-2552



NON-BEARING WALL CONDITION

DETAIL NOTES:
1. HEADERS, KINGSTUDS AND OTHER REFERENCES ON PLAN GOVERN OVER TYPICAL DETAIL. HEADER WIDTH SAME SIZE AS STUD WIDTH, UNO.
2. SEE SHEAR WALL NAILING DETAIL FOR ADDITIONAL INFORMATION.
3. SIMPSON HUC HANGER TO BE USED IN LIEU OF TRIMMER STUDS AT OPENING HEADERS AS REQUIRED. WHERE TRIMMER STUDS ARE NOT POSSIBLE, PROVIDE DOUBLE 2x KINGSTUD MINIMUM, UNO.

TYP. WALL FRAMING 4

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DATE: 06/25/2026
(DSA STAMP AREA)

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SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

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TYP. STRUCTURAL DETAILS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY:	T&S NO:	AMB
CHECKED BY:	240520	BTD
PROJECT NO:		DATE:
24149	DSA V3 SUBMITTAL:	06-15-26

S1.2

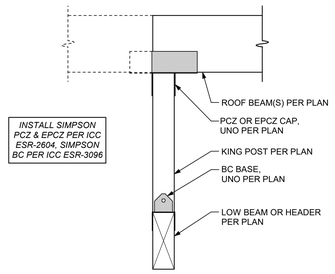
BUILDING ELEMENTS	NUMBER & TYPE OF FASTENER	SPACING & LOCATION	
ROOF			
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8D COMMON	EACH END, TOENAIL	
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8D COMMON	EACH END, TOENAIL	
	2-16D COMMON	EACH END	
FLAT BLOCKING TO TRUSS AND WEB FILLER	16D COMMON @ 6" O.C.	FACE NAIL	
2. CEILING JOISTS TO TOP PLATE	3-8D COMMON	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	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	FACE NAIL	
6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 2308.7.5)	3-10D COMMON	TOENAIL [C]	
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16D COMMON	END NAIL	
	3-10D COMMON	TOENAIL	
WALL			
8. STUD TO STUD (NOT AT BRACED WALL PANELS)	16D COMMON	24" O.C. FACE NAIL	
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16D COMMON	24" O.C. FACE NAIL	
10. BUILT-UP HEADER (2" TO 2" HEADER)	16D COMMON	16" O.C. FACE NAIL	
11. CONTINUOUS HEADER TO STUD	4-8D COMMON	TOENAIL	
12. TOP PLATE TO TOP PLATE	8-16D COMMON	16" O.C. FACE NAIL	
13 TOP PLATE TO TOP PLATE, AT END JOINTS	8-16D COMMON	EA. SIDE OF END JOINT, FACE NAIL (MIN. 24" LAP SPLICE LENGTH EA. SIDE OF END JOINT)	
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16D COMMON	12" O.C. FACE NAIL	
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	16D COMMON	16" O.C. FACE NAIL	
16. STUD TO TOP OR BOTTOM PLATE	4-8D COMMON	TOENAIL	
	2-16D COMMON	END NAIL	
17. TOP OR BOTTOM PLATE TO STUD	2-16D COMMON	FACE NAIL	
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16D COMMON	FACE NAIL	
19. 1" BRACE TO EACH STUD AND PLATE	2-8D COMMON	FACE NAIL	
20. 1" X 6" SHEATHING TO EACH BEARING	2-8D COMMON	FACE NAIL	
21. 1" X 8" AND WIDER SHEATHING TO EACH BEARING	2-8D COMMON	FACE NAIL	
FLOOR			
22. JOIST TO SILL, TOP PLATE, OR GIRDER	3-8D COMMON	TOENAIL	
23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	3-8D COMMON	6" O.C., TOENAIL	
24. 1" X 6" SUBFLOOR OR LESS TO EACH JOIST	2-8D COMMON	FACE NAIL	
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16D COMMON	FACE NAIL	
26. 2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	2-16D COMMON	FACE NAIL	
27. BUILT-UP GIRDERS & BEAMS, 2" LUMBER LAYERS	20D COMMON	32" O.C., FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES	
	AND 2-20D COMMON	ENDS AND AT EACH SPLICE, FACE NAIL	
28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16D COMMON	EACH JOIST OR RAFTER, FACE NAIL	
29. JOIST TO BAND JOIST OR RIM JOIST	3-16D COMMON	END NAIL	
30. BRIDGING OR BLOCKING TO JOISTS, RAFTER OR TRUSS	2-8D COMMON	EACH END, TOENAIL	
WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [A]			
		EDGES (IN.)	**INTERMEDIATE SUPPORTS (IN.)**
31. 3/8" - 1/2"	6D COMMON (SUBFLOOR AND WALL)	6	12
32. 19/32" - 3/4"	8D COMMON	6	12
33. 7/8" - 1 1/4"	10D COMMON	6	12
OTHER EXTERIOR WALL SHEATHING			
34. 1/2" FIBERBOARD SHEATHING [B]	1 1/2" GALVANIZED ROOFING NAIL; OR 1 1/4" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6
35. 25/32" FIBERBOARD SHEATHING [B]	1 3/4" GALVANIZED ROOFING NAIL; OR 1 1/2 " 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6
OTHER EXTERIOR WALL SHEATHING			
36. 3/4" AND LESS	8D COMMON	6	12
37. 7/8" - 1"	8D COMMON	6	12
38. 1 1/8" - 1 1/4"	10D COMMON	6	12
PANEL SIDING TO FRAMING			
39. 1/2" OR LESS	6D CORROSION-RESISTANT SIDING, OR 6D CORROSION RESISTANT CASING	6	12
40. 5/8"	8D CORROSION-RESISTANT SIDING; OR 8D CORROSION RESISTANT CASING	6	12
INTERIOR PANELING			
41. 1/4"	4D CASING; OR 4D FINISH	6	12
42. 3/8"	6D CASING; OR 6D FINISH	6	12

A. NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.

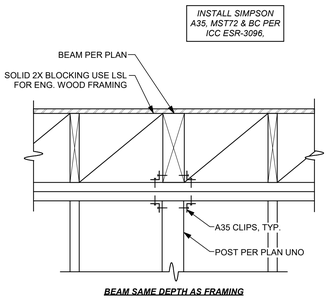
B. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORT FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).

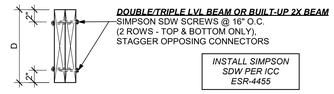
C. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD FASTENING SCHEDULE (19)



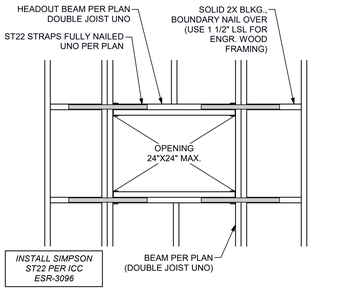
KING POST TO BEAM (11)



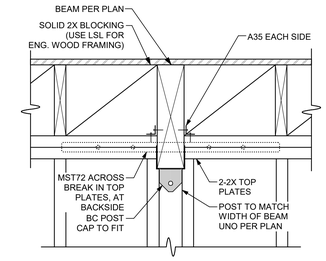


NOTE: ALL ENGINEERED WOOD CONNECTIONS SHALL CONFORM TO MANUFACTURER'S SPECS

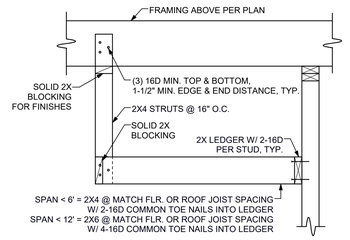
MULTIPLE-MEMBER CONNECTION (1)



TYP. DIAPHRAGM OPENING (12)

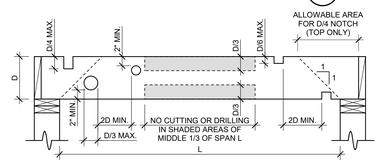


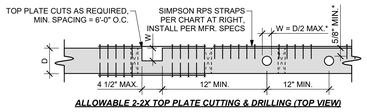
BEAM SUPPORT AT WALL (7)



TYP. SOFFIT ATTACHMENT (8)

INSTALL SIMPSON CTS218 PER ICC ESR-2105, SIMPSON RPS PER ICC ESR-2608

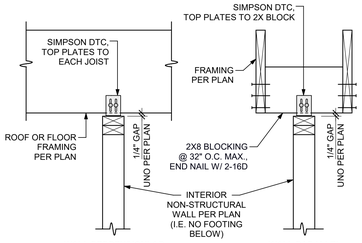




NOTE: THESE DETAILS ONLY APPLY TO THE SIMPLE STRUCTURAL SITUATIONS SHOWN. THEY ARE NOT INTENDED TO APPLY TO POSTS, BEAMS, CANTILEVERED MEMBERS, OR OTHER STRUCTURAL MEMBERS SPECIFIED ON THE PLANS UNO. SEE THE SPECS FOR ADDITIONAL RELATED INFORMATION. CONTACT T&S REGARDING CUTS OR DRILLING NOT COVERED.

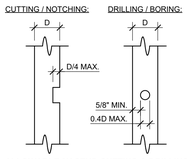
ALLOWED 2X CUTTING & DRILLING (4)

INSTALL SIMPSON DTC PER ER-102



NOTE: SEE TYPICAL NON-STRUCTURAL WALL TO SLAB DETAIL FOR CONNECTION AT SLAB

TYP. NON-STR. WALL TO FRAMING (3)



REQUIRED STRAPS AT CUT/DRILLED PLATES

MAX. CUT/HOLE WIDTH	STRAP(S) REQUIRED
DRILLED HOLE: W < D/2	RPS22 EACH SIDE OF PLATES (STAGGER VERTICALLY)
CUT: W < D/2	(2) CTS218 ON SIDE OF CUT
HOLE OR CUT: W > D/2	(2) CTS218 ON EACH SIDE OF CUT

* TREAT DRILLED HOLES NOT MEETING THESE REQUIREMENTS AS HOLES WITH W > D/2.

TYP. STRUCTURAL DETAILS (S1.3)

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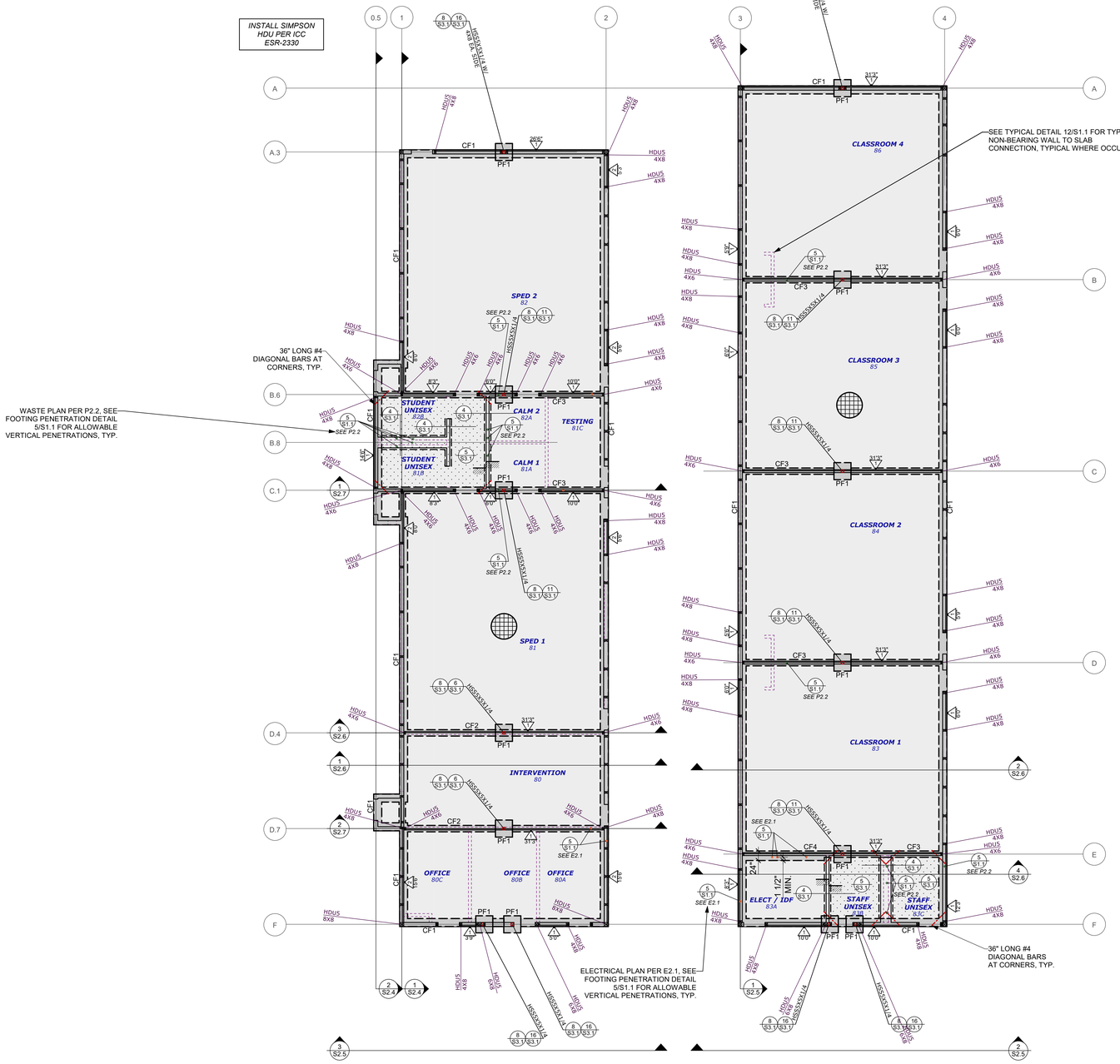
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REVISIONS
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PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-15-26

S1.3



CLASSROOM BLDG 060A

CLASSROOM BLDG 060B

SHEATH ALL EXTERIOR NON-SWS AS 'DELTA 1," MIN., TYP. PER ARCH.

SHEARWALL SCHEDULE

NO.	DESCRIPTION: SHEATHING MATERIAL	NO. OF SIDES	NAILING[1]: SIZE	NAILING[1]: BOUNDARY SPACING	NAILING[1]: EDGE SPACING	TRANSFER ALTERNATIVES: (1514)[9] SDS A.S.	(2306) SDS Screw	(2306) SDWS Screw	(2306) -	(2148) LTP4	(2148) LTP5	(2156) A35	-	-	(5274) 16d Common	VALUE (plf)
						-	2236	2236	-	3096	3096	ER-192	-	-	-	ICC ESR-# (UNO)
1A[11]	1/2" ST1 PLYWOOD/OSB	1	10d	6"	6"	48"	9"	12.5"	-	11"	11"	14"	-	-	3"	340
1	1/2" ST1 PLYWOOD/OSB	1	10d	4"	4"	35"	6"	8"	-	7"	7"	9"	-	-	2"	510
1	1/2" ST1 PLYWOOD/OSB	1	10d	3"	3"	27"	4"	6"	-	6"	5"	7"	-	-	1.5"	665
1	1/2" ST1 PLYWOOD/OSB	1	10d	2"	2"	20"	3.5"[5]	4.5"[5]	-	4.5"	4"	5"	-	-	1"	870
1	1/2" ST1 PLYWOOD/OSB	2	10d	4"	4"	17"	3"[5]	4"[5]	-	4"	3"	4"	-	-	-	1020
1	1/2" ST1 PLYWOOD/OSB	2	10d	3"	3"	13"	2"[5]	2"[5]	-	3"	2.5"	3"	-	-	-	1330
1	1/2" CDX PLYWOOD/OSB	2	10d	2"	2"	10"	-	-[5]	-	2"	2"	2"	-	-	-	1740

FOOTNOTES:

[1] Use COMMON NAILS ONLY for all sheathing. Field nailing is 12" o.c. Provide 3x framing at all panel joints UNO.

[2] Anchor bolts for shearwalls must have 3" x 3" x 0.229" plate washers min., install per 2021 AWC SDPWS 4.3.6.4.3.

[3] Embed SDS 2" min. into framing below (min. length is usually 4 1/2" at 2x sills & 6" at 3x sills, V.I.F.). [ICC ESR-2236]

[4] Embed SDWS 2" min. into framing below (min. length is usually 5" at 2x sills & 6" at 3x sills, V.I.F.). [IAPMO ER-192]

[5] Embed 3/8" lags 3" min. into framing below per plan (usually 6" lags at 2x sills & 7" lags at 3x sills, V.I.F.).

[6] Staggered screw pattern required. Use 4x min. rim/beam/blkg. below as required for 1" edge distance & 1 1/2" spacing between rows.

[7] Install rim/beam/blkg. to match full width of top plates, and alternate clips on each side of wall.

[8] 16d transfers are NOT allowed through 3x sills or sheathing thicker than 3/4", 1" min. penetration into rim is required.

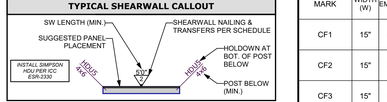
[9] Value based on 2018 AWC NDS Table 12E for light-framed construction.

[10] At Delta 0 shearwalls, 2x framing members may be used at all panel joints UNO.

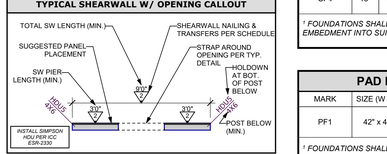
[11] LTP4 installed over sheathing shall use 8d common nails (0.131" x 2-1/2") UNO per plan.

SEE SPECS, SCHEDULE, NOTES, AND TYPICAL DETAILS FOR ADD'L REQUIREMENTS

TYPICAL SHEARWALL CALLOUT



TYPICAL SHEARWALL W/ OPENING CALLOUT



FOUNDATION NOTES

SYMBOL KEY:

- CF# = CONTINUOUS FOOTING OR GRADE BEAM PER SCHED. (SOLID LINE INDICATES **CURB**)
- = CONTINUOUS THICKENED SLAB PER PLAN (SOLID LINE INDICATES **CURB**)
- PF# = PAD FOOTING PER SCHED.
- = 4" SLAB ON GRADE W/ #3 @ 18" O.C. EACH WAY PER TYP. DETAIL
- = SLAB ON GRADE PER PLAN W/ 1.5" DEPRESSION PER PLAN
- = WALL STUDS ABOVE PER SCHEDULE
- = SHEAR WALL ABOVE PER SCHEDULE
- 4x4 = POST ABOVE PER PLAN
- HDU5 4X8 = HOLDOWN AT BOT. OF POST PER PLAN SEE TYP. DETAIL 20/S1.1 FOR FOUNDATION ANCHORAGE, TYP. UNO
- = STEP PER ARCH IN FRAMING OR SLAB

NOTES:

SEE GENERAL NOTES & SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND MATERIAL SPECIFICATIONS

SEE S1 SERIES SHEETS FOR TYPICAL DETAILS, TYPICAL DETAILS APPLY THROUGHOUT THIS PLAN UNO

ALL DIMENSIONS PER ARCHITECTURAL PLANS, CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION

SEE SOILS REPORT, GENERAL NOTES & SPECS FOR ADDITIONAL REQUIREMENTS AND MATERIAL SPECS

PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING INSPECTOR IN WRITING THAT:

a) THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT,
b) THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED,
c) THE FOUNDATION EXCAVATIONS, THE SOIL'S EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY CONFORM TO THE SOILS REPORT.

PROVIDE WALL-LENGTH, CONTINUOUS, FULL-DEPTH, SOLID BLOCKING (WHERE FLOOR JOISTS ARE PERPENDICULAR) OR DOUBLE FLOOR JOIST (WHERE FLOOR JOISTS ARE PARALLEL), FOR ALL WALLS AT LEVEL ABOVE

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH (W)	EMBED.	LONGITUDINAL REINF.	TRANSVERSE REINF.	NOTES
CF1	15"	18"	(3) #5, TOP & BOT.	#3 @ 6" OC	SEE DET. 1/S3.1
CF2	15"	18"	(3) #5, TOP & BOT.	#3 @ 6" OC	SEE DET. 2/S3.1
CF3	15"	18"	(3) #5, TOP & BOT.	#3 @ 6" OC	SEE DET. 3/S3.1
CF4	18"	18"	(3) #5, TOP & BOT.	#3 @ 6" OC	SEE DET. 3/S3.1

[1] *FOUNDATIONS SHALL SATISFY THE MINIMUM REQUIRED EMBEDMENT INTO SUITABLE BEARING SOIL, PER SOILS REPORT.*

PAD FOOTING SCHEDULE

MARK	SIZE (W x B)	EMBED. [1]	REINF.	NOTES
PF1	42" x 42"	18"	#4 @ 6" OC BOTTOM	SEE DET. PER PLAN

[1] *FOUNDATIONS SHALL SATISFY THE MINIMUM REQUIRED EMBEDMENT INTO SUITABLE BEARING SOIL, PER SOILS REPORT.*

1 FOUNDATION PLAN

1/8" = 1'-0"

0 2' 5 10' 20 30

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FOUNDATION PLAN

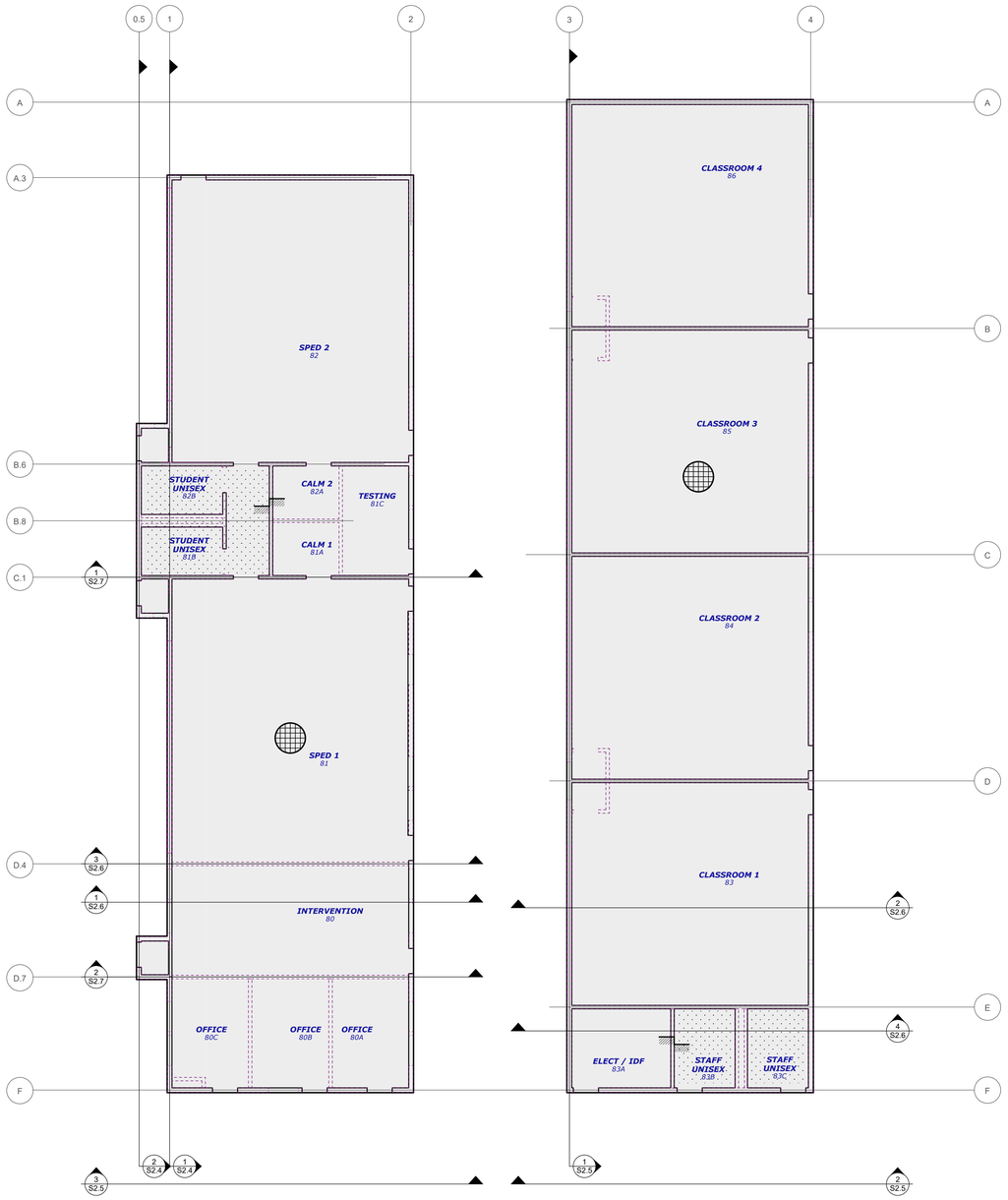
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

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T&S NO: 240520
CHECKED BY: BTD
PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-15-26

S2.1



NOTE: SEE S2.1 FOR ADDITIONAL INFORMATION

NOTE: SEE S2.1 FOR ADDITIONAL INFORMATION

CLASSROOM BLDG 060A

CLASSROOM BLDG 060B

FOUNDATION NOTES

SYMBOL KEY:

= CURB PER PLAN

= 4" SLAB ON GRADE W/ #3 @ 18" O.C. EACH WAY PER TYP. DETAIL

= SLAB ON GRADE PER PLAN W/ 1.5" DEPRESSION PER PLAN

= WALL STUDS ABOVE PER SCHEDULE

= STEP PER ARCH IN FRAMING OR SLAB

NOTES:

SEE GENERAL NOTES & SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND MATERIAL SPECIFICATIONS

SEE S1 SERIES SHEETS FOR TYPICAL DETAILS, TYPICAL DETAILS APPLY THROUGHOUT THIS PLAN UNO

ALL DIMENSIONS PER ARCHITECTURAL PLANS, CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION

SEE SOILS REPORT, GENERAL NOTES & SPECS FOR ADDITIONAL REQUIREMENTS AND MATERIAL SPECS

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b) THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED,
c) THE FOUNDATION EXCAVATIONS, THE SOIL'S EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY CONFORM TO THE SOILS REPORT.

PROVIDE WALL-LENGTH, CONTINUOUS, FULL-DEPTH, SOLID BLOCKING (WHERE FLOOR JOISTS ARE PERPENDICULAR) OR DOUBLE FLOOR JOIST (WHERE FLOOR JOISTS ARE PARALLEL), FOR ALL WALLS AT LEVEL ABOVE

1 CURB PLAN

1/8" = 1'-0"

0 2' 5 10' 20 30

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REF NORTH
TRUE NORTH

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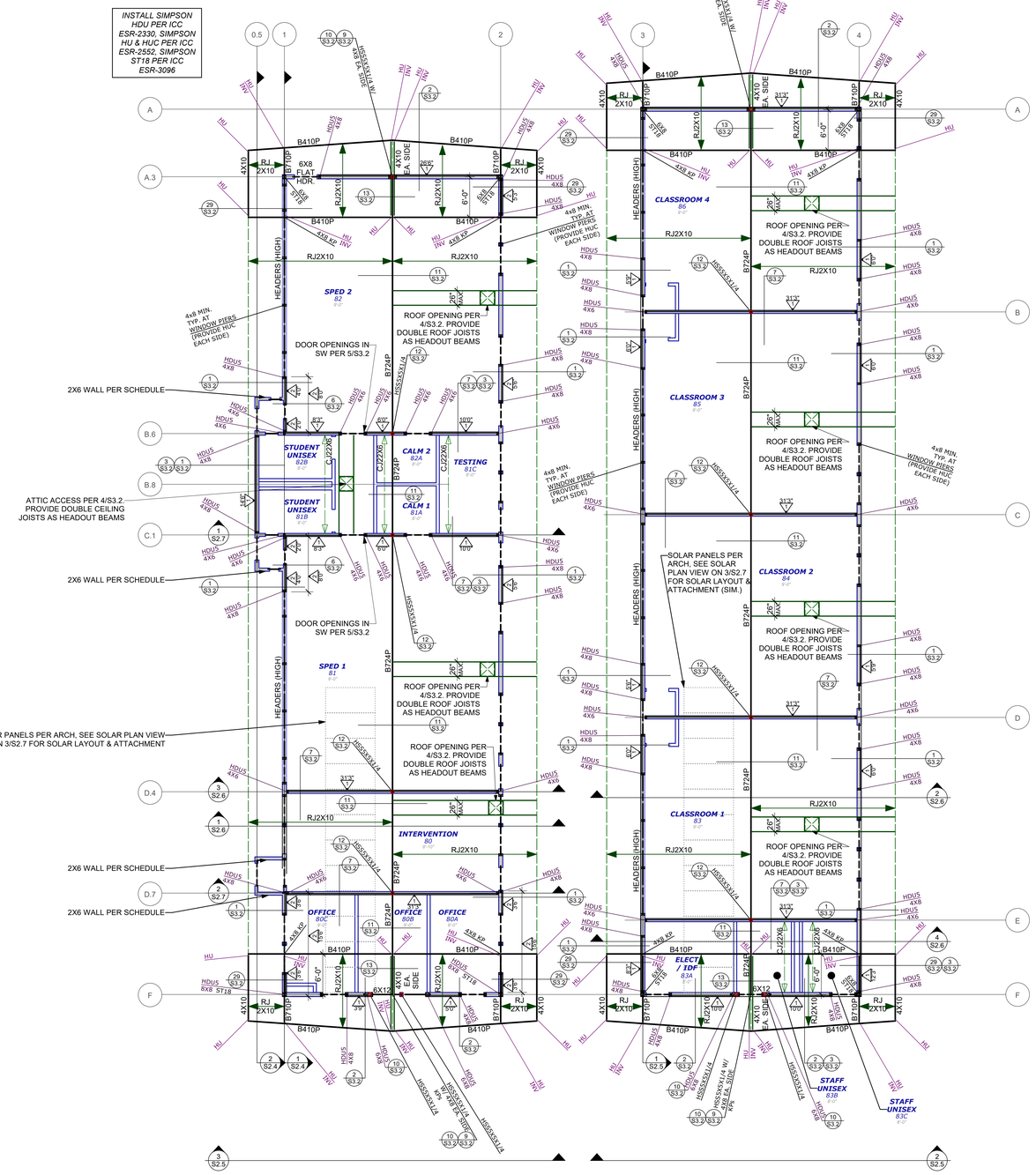
CURB PLAN

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S2.2



1 ROOF FRAMING PLAN

1/8" = 1'-0"

0 2' 5 10' 20 30

*SHEATH ALL EXTERIOR NON-SWS AS '*DELTA 1," MIN., TYP. PER ARCH.*

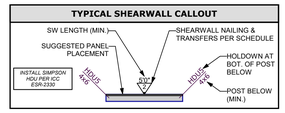
SHEARWALL SCHEDULE

NO.	DESCRIPTION: SHEATHING MATERIAL	NO. OF SIDES	NAILING[1]: SIZE	BOUNDARY SPACING	EDGE SPACING	TRANSFER ALTERNATIVES: (15124)[4] SIM SDS A/S	(23566) SDS Screw	(23236) SDWS Screw	-	LTP4	(21166) LTP5	(21196) A34	-	-	(8274) 16d Common	VALUE (plf)
						-	2236	2236	-	3096	3096	ER-102	-	-	-	ICC ESR-[4] (UNO)
1	1/2" ST1 PLYWOOD/OSB	1	10d	6"	6"	48"	9"	12.5"	-	11"	11"	14"	-	-	3"	340
2	1/2" ST1 PLYWOOD/OSB	1	10d	4"	4"	35"	6"	8"	-	7"	7"	9"	-	-	2"	510
3	1/2" ST1 PLYWOOD/OSB	1	10d	3"	3"	27"	4"	6"	-	6"	5"	7"	-	-	1.5"	665
4	1/2" ST1 PLYWOOD/OSB	1	10d	2"	2"	20"	3.5"	4.5"	-	4.5"	4"	5"	-	-	1"	870
5	1/2" ST1 PLYWOOD/OSB	2	10d	4"	4"	17"	3"	4"	-	4"	3"	4"	-	-	-	1020
6	1/2" ST1 PLYWOOD/OSB	2	10d	3"	3"	13"	2"	2"	-	3"	2.5"	3"	-	-	-	1330
7	1/2" CDX PLYWOOD/OSB	2	10d	2"	2"	10"	-	-	-	2"	2"	2"	-	-	-	1740

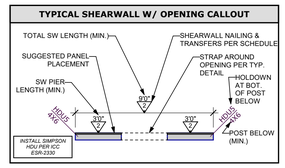
FOOTNOTES:
1 Use COMMON NAILS ONLY for all sheathing. Field nailing is 12" o.c. Provide 3x framing at all panel joints UNO.
2 Anchor bolts for shearwalls must have 3" x 3" x 0.229" plate washers min., install per 2021 AWC SDPWS 4.3.6.4.3.
3 Embed SDS 2" min. into framing below (min. length is usually 4 1/2" at 2x sills & 6" at 3x sills, V.I.F.). [ICC ESR-2236]
4 Embed SDWS 2" min. into framing below (min. length is usually 5" at 2x sills & 6" at 3x sills, V.I.F.). [APMO ER-192]
5 Embed 3/8" lags 3" min. into framing below per plan (usually 6" lags at 2x sills & 7" lags at 3x sills, V.I.F.).
6 Staggered screw pattern required. Use 4x min. rim/beam/blkg. below as required for 1" edge distance & 1 1/2" spacing between rows.
7 Install rim/beam/blkg. to match full width of top plates, and alternate clips on each side of wall.
8 16d tranfers are NOT allowed through 3x sills or sheathing thicker than 3/4", 1" min. penetration into rim is required.
9 Value based on 2018 AWC NDS Table 12E for light-framed construction.
10 At Delta 0 shearwalls, 2x framing members may be used at all panel joints UNO.
11 LTP4 installed over sheathing shall use 8d common nails (0.131"x 2-1/2") UNO per plan.

SEE SPECS, SCHEDULE, NOTES, AND TYPICAL DETAILS FOR ADD'L REQUIREMENTS

TYPICAL SHEARWALL CALLOUT



TYPICAL SHEARWALL W/ OPENING CALLOUT



BEAM SCHEDULE

MARK	SIZE	*NOTES*
B410P	3.5 X 9.25 PSL	*GRADE 2.2E*
B710P	7 X 9.25 PSL	*GRADE 2.2E*
B724P	7 X 24 PSL	*GRADE 2.2E*
2X10	2X10 DF#1	-
4X10	4X10 DF#1	-
8X10	8X10 DF#1	-

BEAM SCHEDULE NOTES:
1) FOR DBL OR TRIPLE JOISTS, CONNECT PER TYP. DETAIL.
2) BEAMS SHALL BEAR ON PLATES W/ POST PER PLAN UNO.
3) TOP OF BEAM SHALL BE FLUSH WITH TOP OF JOISTS, UNO. "LOW" INDICATES THAT JOISTS BEAR ON TOP OF BEAM.

DIAPHRAGM SCHEDULE

CONDITION	MIN. SHTG.	NAILS	NAIL SPACING[1]	CONDITION
ROOF	1/2" CDX/OSB PL 24/0	10d COMMON	6", 6", 12"	UNBLOCKED

REFER TO TYP. DETAILS FOR TYP. DIAPHRAGM DETAIL
[1]NAIL SPACING OF A",B",C" INDICATES DIAPHRAGM NAILING OF A" OC AT BOUNDARIES, B" OC AT CONTINUOUS PANEL EDGES, C" OC FIELD NAILING

FRAMING NOTES

SYMBOL KEY:

- = JOISTS PER PLAN
- = CELING JOISTS PER PLAN
- = BEAM PER PLAN
- = HEADER PER PLAN (INDICATES CONTINUOUS TOP PLATES ABOVE)
- = WALL STUDS BELOW PER SCHEDULE
- = NON-BEARING (PARTITION) WALL STUDS BELOW PER SCHEDULE
- = LOW WALL STUDS BELOW PER SCHEDULE AT CLERESTORY WINDOWS
- = SHEAR WALL BELOW PER SCHEDULE
- = POST BELOW PER PLAN
- = HOLDOWN AT BOT. OF POST PER PLAN
- = OPENINGS IN DIAPHRAGM
- = STEP PER ARCH IN FRAMING OR SLAB
- = EXTENT OF ROOF ABOVE UNO
- S# = STRAP PER PLAN
- HSS# = HSS PER SCHEDULE

NOTES:

SEE GENERAL NOTES & SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND MATERIAL SPECIFICATIONS

SEE S1 SERIES SHEETS FOR TYPICAL DETAILS, TYPICAL DETAILS APPLY THROUGHOUT THIS PLAN UNO

ALL DIMENSIONS PER ARCHITECTURAL PLANS, CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION

PROVIDE WALL-LENGTH, CONTINUOUS, FULL-DEPTH, SOLID BLOCKING (WHERE FLOOR JOISTS ARE PERPENDICULAR) OR DOUBLE FLOOR JOIST (WHERE FLOOR JOISTS ARE PARALLEL), FOR ALL WALLS AT LEVEL ABOVE

FRAMED WALLS SHALL HAVE CONTINUOUS DOUBLE TOP PLATES, SPLICE AS REQUIRED PER TYPICAL DETAILS

BEAMS SHALL BEAR ON PLATES WITH INDICATED POST OR DOUBLE STUD BELOW, UNO

WALL STUD SCHEDULE

LEVEL	EXTERIOR BEARING	INTERIOR BEARING (MIN.)
1ST FLOOR	2X8 @ 16" OC (UNO)	2X6 @ 16" OC (UNO)

- FOR BEARING WALLS, FOLLOW DETAILS PER PLAN.

- FOR NON-BEARING WALLS, STUDS SHALL BE 2X6 @ 16" OC UNO, REFER TO TYP. DETAILS FOR CONNECTIONS AND REQUIREMENTS.

ROOF JOIST SCHEDULE

MARK	JOIST SIZE AND TYPE	SPACING, UNO	HANGER (TYP., UNO)
RJ2X10	2X10 DF#2	@ 16" OC	LUS

-FOR DBL OR TRIPLE JOISTS, CONNECT PER TYP. DETAIL

-PROVIDE WALL-LENGTH, CONTINUOUS, FULL-DEPTH, SOLID BLOCKING (WHERE FLOOR JOISTS ARE PERPENDICULAR) OR DOUBLE FLOOR JOIST (WHERE FLOOR JOISTS ARE PARALLEL) FOR ALL WALLS AT LEVEL ABOVE

-LUS HANGERS PER ICC ESR-2552

CEILING JOIST SCHEDULE

MARK	JOIST SIZE AND TYPE	SPACING, UNO	HANGER (TYP., UNO)
CJ22X6	2-2X6 DF#2	@ 16" OC	LUS

-FOR DBL OR TRIPLE JOISTS, CONNECT PER TYP. DETAIL

-PROVIDE WALL-LENGTH, CONTINUOUS, FULL-DEPTH, SOLID BLOCKING (WHERE FLOOR JOISTS ARE PERPENDICULAR) OR DOUBLE FLOOR JOIST (WHERE FLOOR JOISTS ARE PARALLEL) FOR ALL WALLS AT LEVEL ABOVE

-LUS HANGERS PER ICC ESR-2552

HEADER SCHEDULE

MAX. HDR. SPAN	HEADER (UNO)		TRIMMERS (UNO)	
	2X6 WALL	2X8 WALL	2X6 WALL	2X8 WALL
4'-0"	6X6	*PER PLAN*	2X6	2X8
6'-0"	6X6	*PER PLAN*	2X6	2X8
8'-0"	*PER PLAN*		*PER PLAN*	

-REFER TO TYP. DETAILS FOR TYP. HEADER CONNECTIONS

-PROVIDE 4X8 MIN POST & HUC PER PLAN WHERE WINDOWS ARE SEPARATED BY 6" WALL PIERS

-SEE DETAIL 20/S3.2 WHERE 6x HEADERS NOTED PER PLAN AT EXTERIOR 8x WALL

-HUC HANGERS PER ICC ESR-2552

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ROOF FRAMING PLAN

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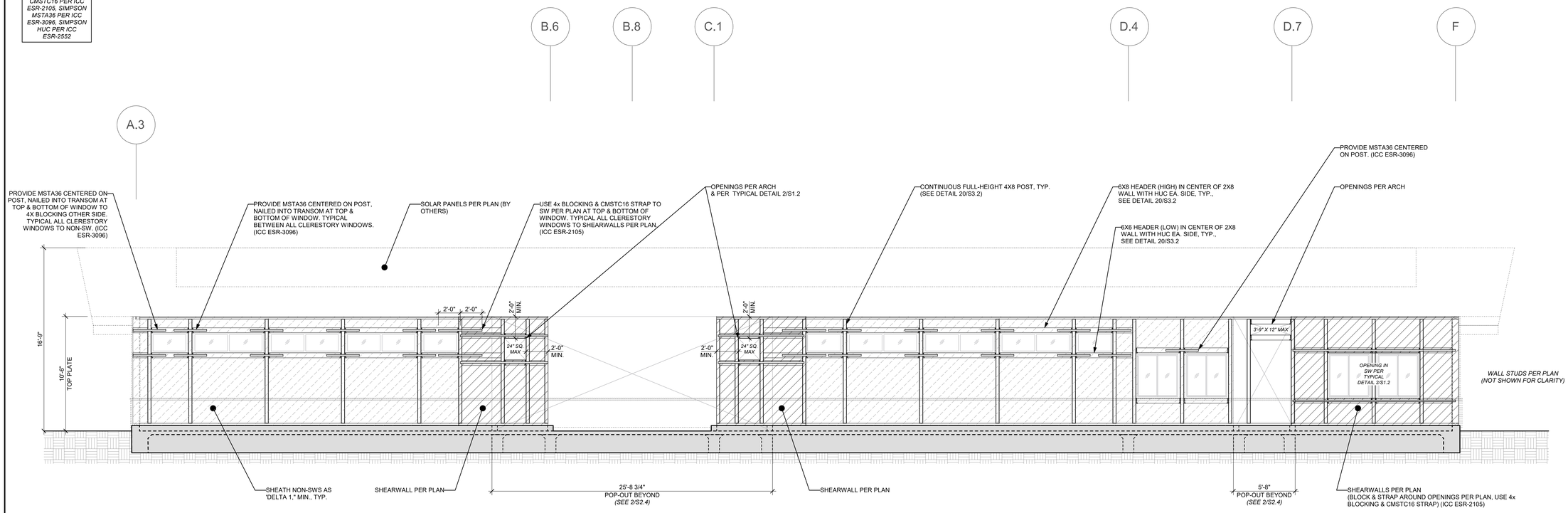
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S2.3

NOTE: ALL DIMENSIONS PER ARCHITECTURAL PLANS, CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION

INSTALL SIMPSON CMSTC16 PER ICC ESR-2105, SIMPSON MSTA36 PER ICC ESR-3096, SIMPSON HUC PER ICC ESR-2552

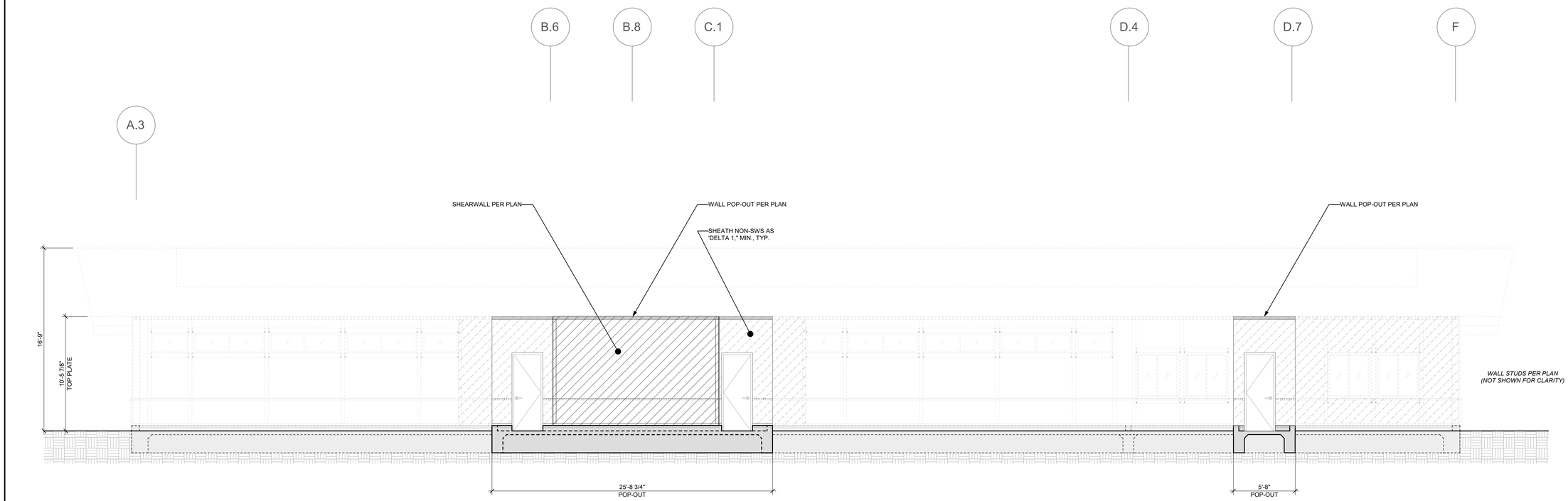


CLASSROOM BLDG 060A

STRUCTURAL ELEVATION AT GRID LINE 1 (CLERESTORY WINDOWS) 1

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NOTE: ALL DIMENSIONS PER ARCHITECTURAL PLANS, CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION



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STRUCTURAL ELEVATION AT AT GRID LINE 0.5 (POP-OUTS) 2

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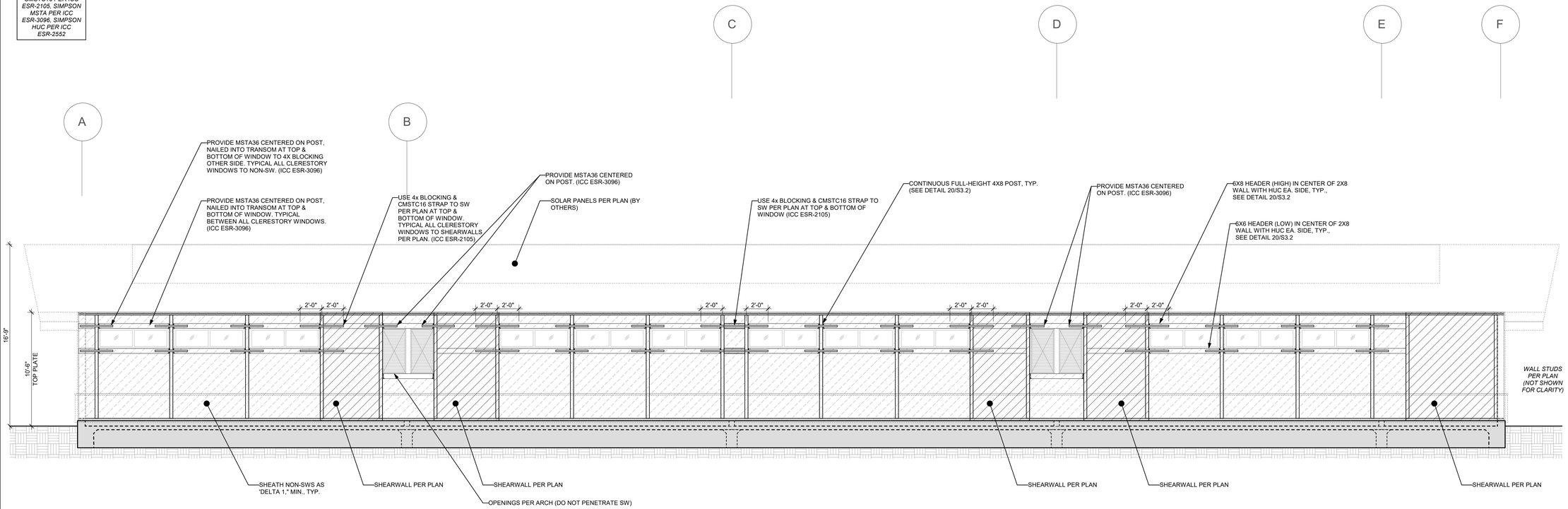
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S2.4

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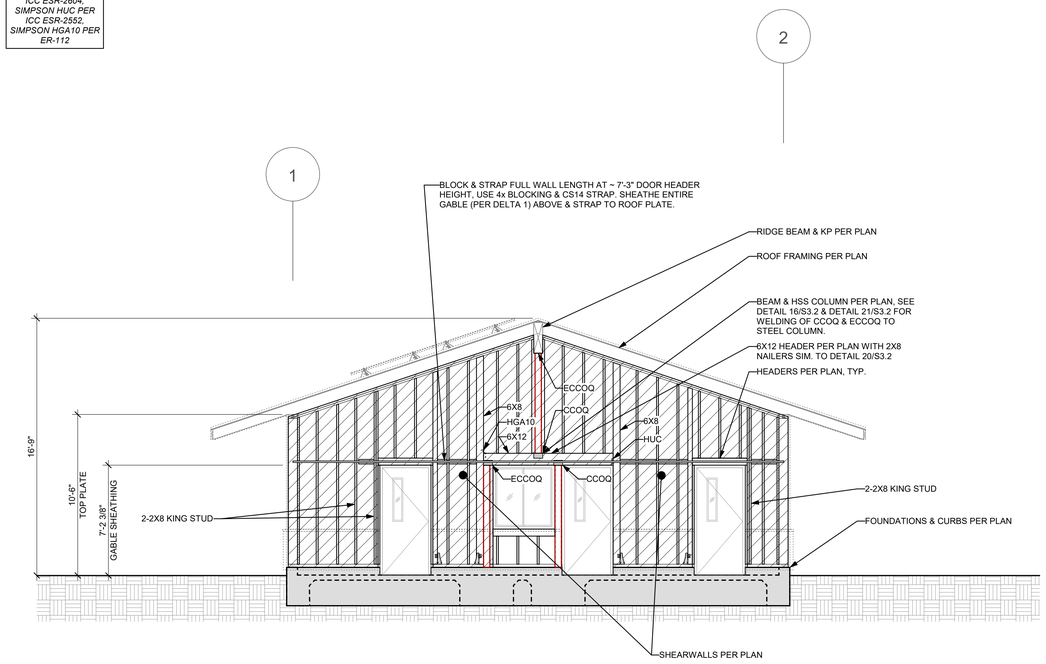
CLASSROOM BLDG 060B

STRUCTURAL ELEVATION AT GRID LINE 3 (CLERESTORY WINDOWS) 1

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NOTE: ALL DIMENSIONS PER ARCHITECTURAL PLANS, CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION

INSTALL SIMPSON CS14 PER ICC ESR-2105, SIMPSON CCOQ & ECCOQ PER ICC ESR-2604, SIMPSON HUC PER ICC ESR-2552, SIMPSON HGA10 PER ER-112



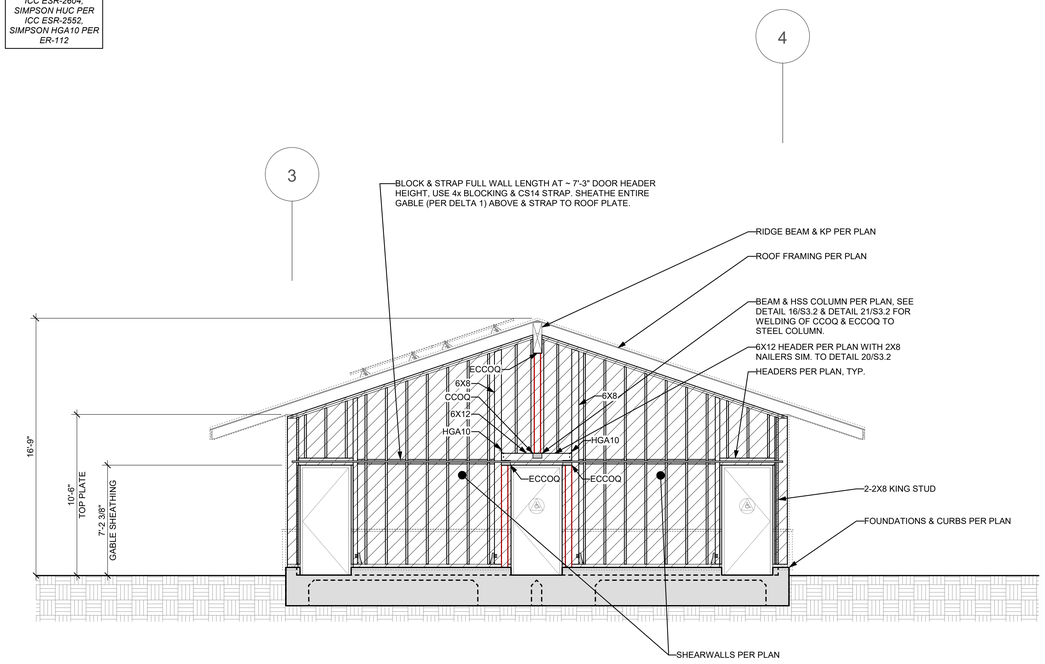
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STRUCTURAL ELEVATION AT GRID LINE F (GABLE END) 3

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STRUCTURAL ELEVATION AT GRID LINE F (GABLE END) 2

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STRUCTURAL ELEVATIONS

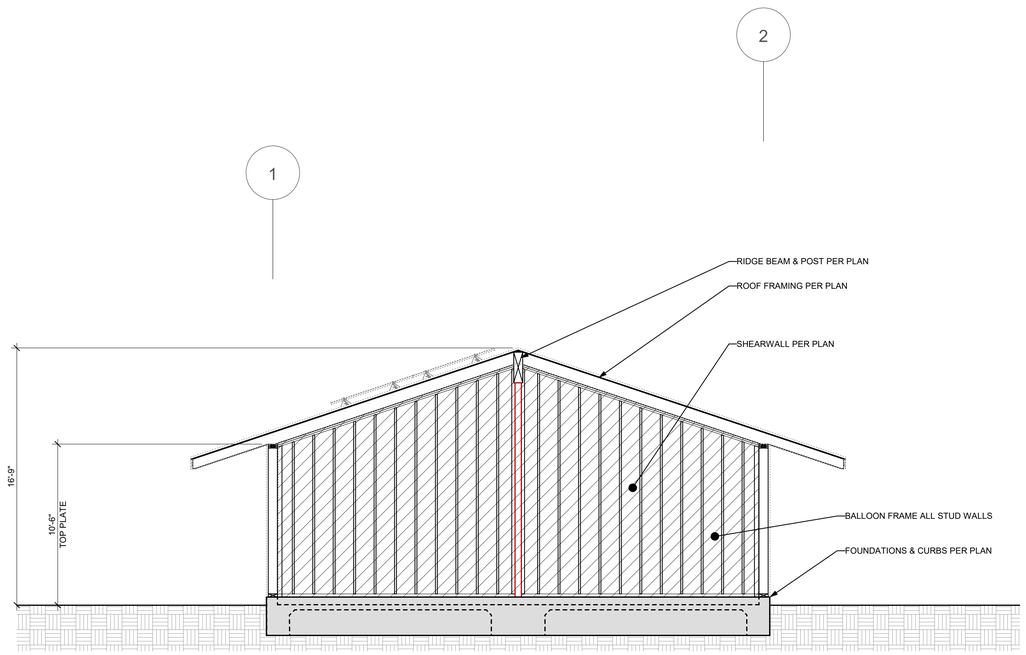
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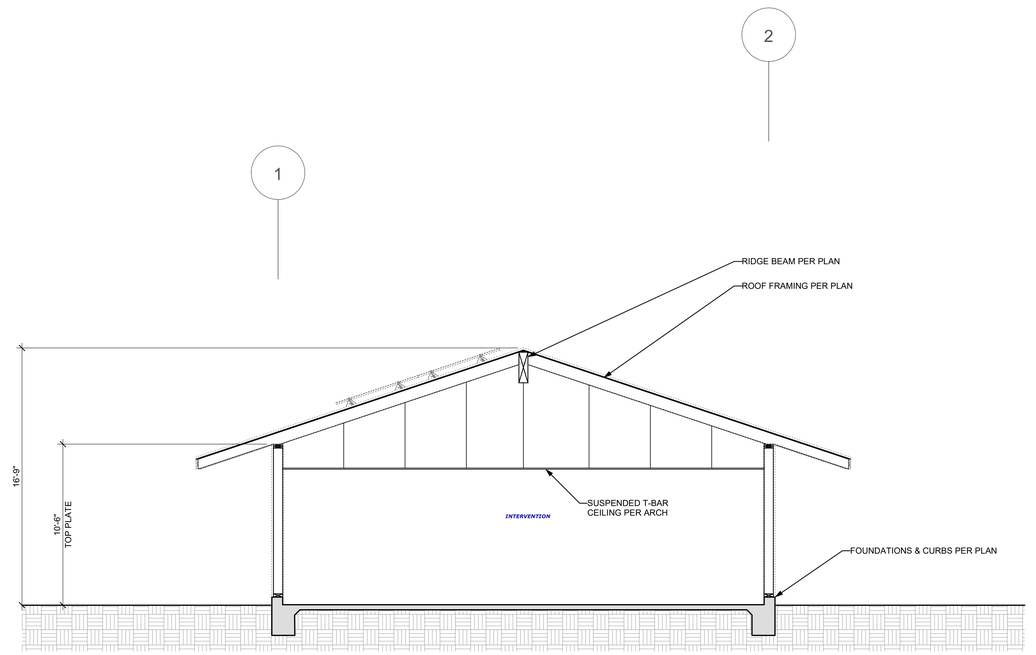


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STRUCTURAL STRUCTURAL SECTION AT GRID LINE D.4 (TYP. BALLOON FRAMED INTERIOR WALL) 3

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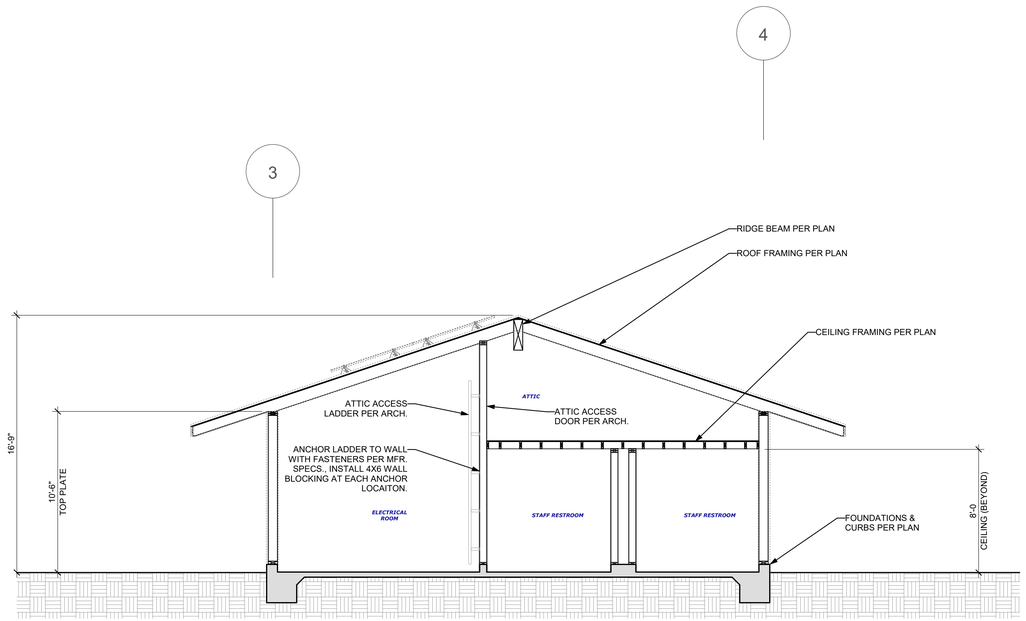


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STRUCTURAL SECTION AT INTERVENTION ROOM 80 (TYP. 8'-10" T-BAR CEILING) 1

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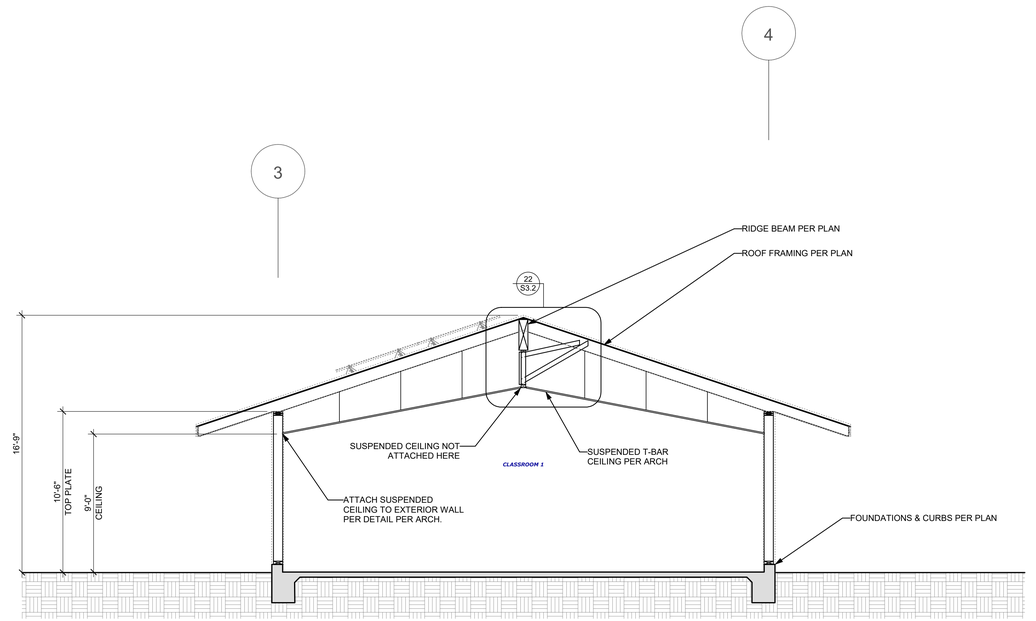


CLASSROOM BLDG 060B

STRUCTURAL SECTION AT ELECTRICAL ROOM (TYP. HARD LID CEILING) 4

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CLASSROOM BLDG 060B

STRUCTURAL SECTION AT CLASSROOM 1 ROOM 83 (TYP. SLOPED 9'-0" T-BAR CEILING) 2

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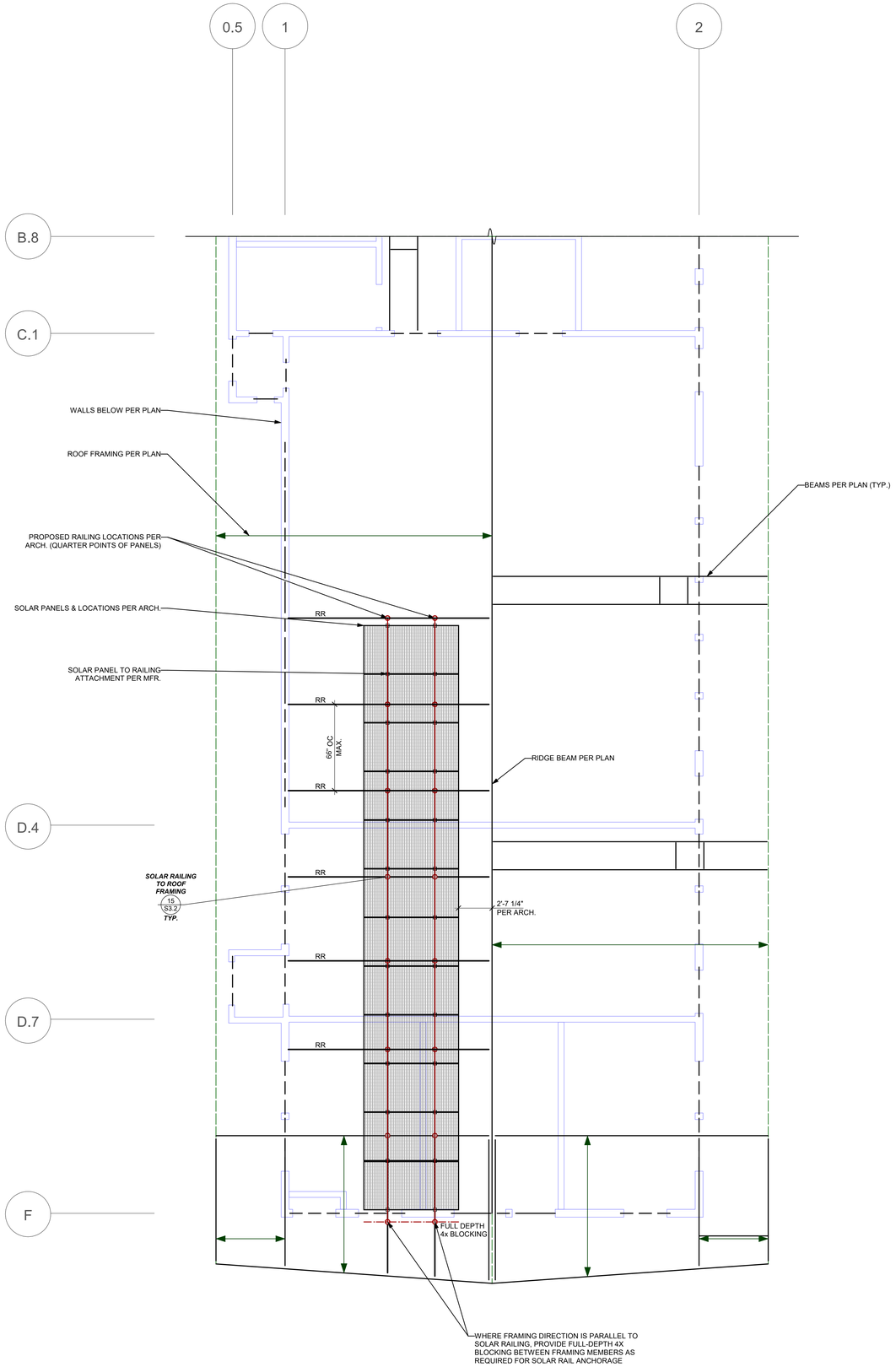
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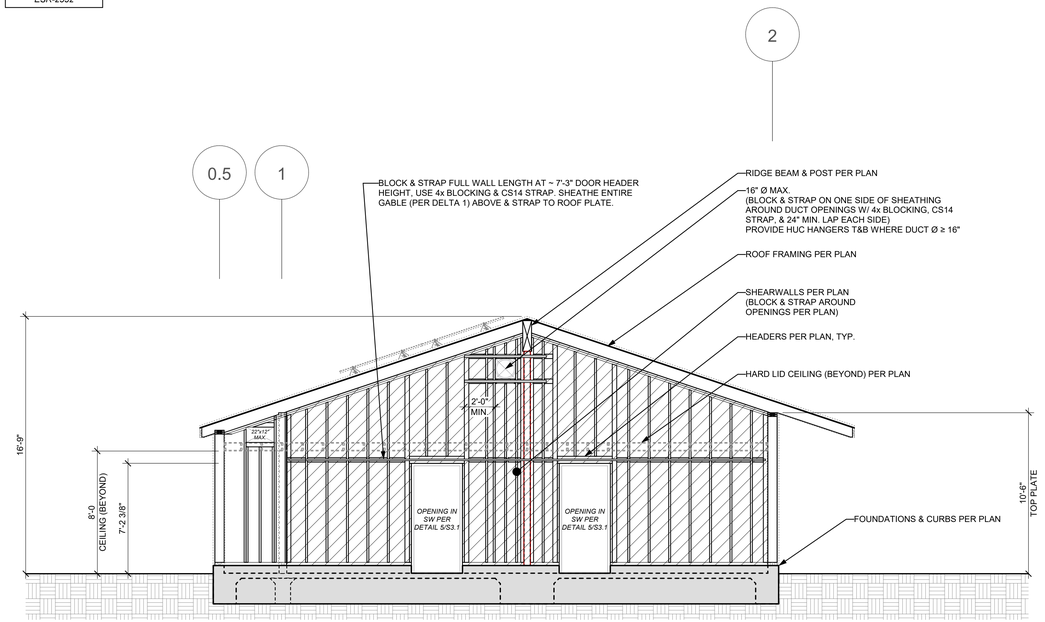
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SOLAR PANEL LAYOUT (PARTIAL PLAN VIEW) 3

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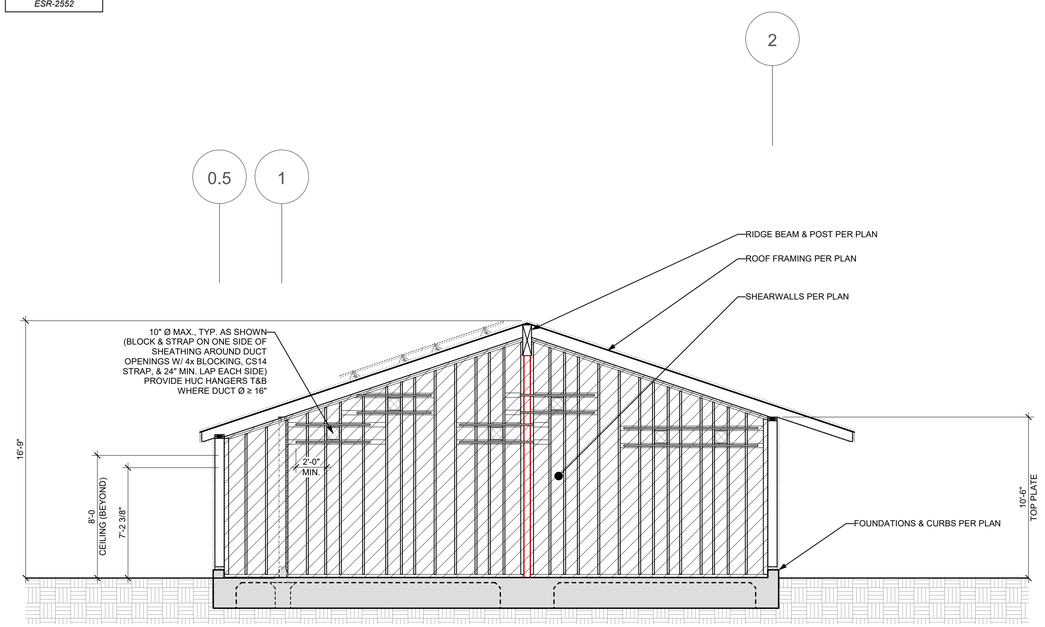


CLASSROOM BLDG 060A

STRUCTURAL SECTION AT GRID LINE C.1 (BALLOON FRAMED INTERIOR WALL) 1

NOTE: ALL DIMENSIONS PER ARCHITECTURAL PLANS, CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION

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STRUCTURAL SECTION AT GRID LINE D.7 (BALLOON FRAMED INTERIOR WALL) 2

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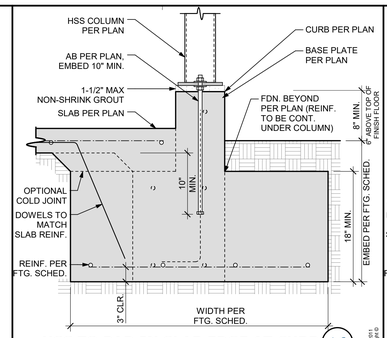
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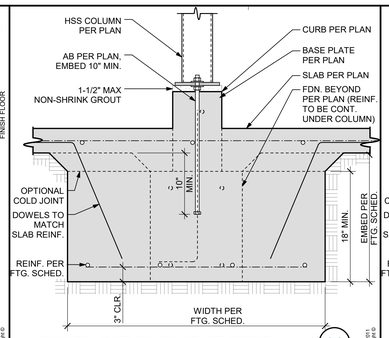
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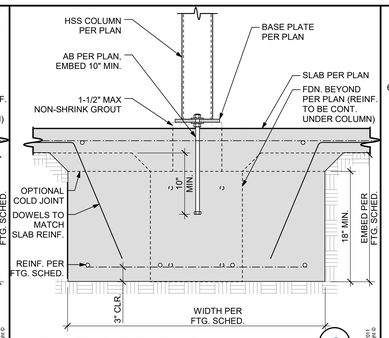
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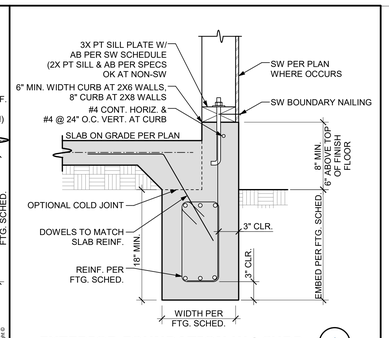
HSS TO PAD IN SLAB EDGE AT CURB 16



HSS TO PAD IN SLAB AT CURB 11



HSS TO PAD IN SLAB 6



EXTERIOR FOUNDATION W/ CURB 1

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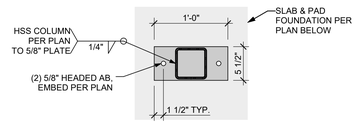
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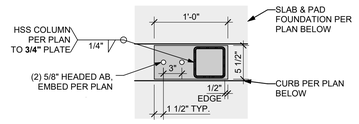
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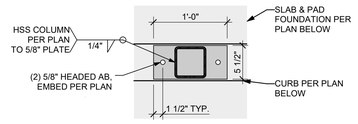
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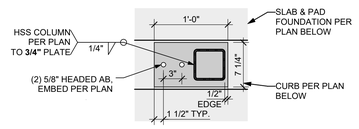
BASE PLATE NOT AT CURB



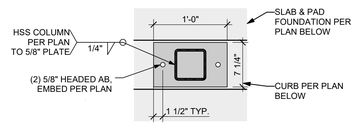
BASE PLATE AT 6" CURB (EDGE)



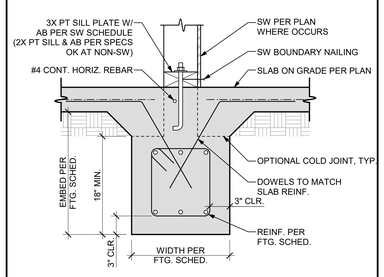
BASE PLATE AT 6" CURB



BASE PLATE AT 8" CURB (EDGE)



BASE PLATE AT 8" CURB



TYP. INTERIOR FOUNDATION 2

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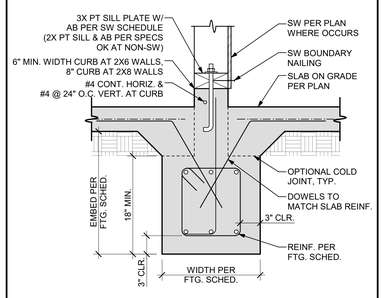
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HSS COLUMN BASE PLATES 8



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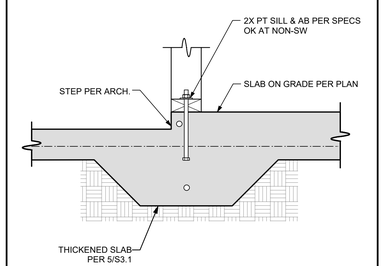
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TYP. THICKENED SLAB W/STEP 4

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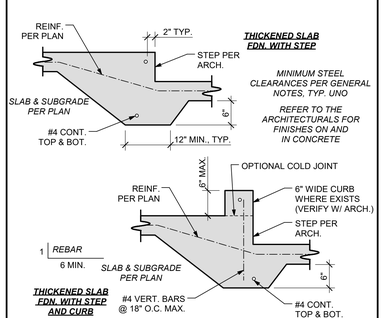
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THICKENED SLAB FDN. AT STEP 5

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DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

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STRUCTURAL DETAILS

NEW CLASSROOMS AT
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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

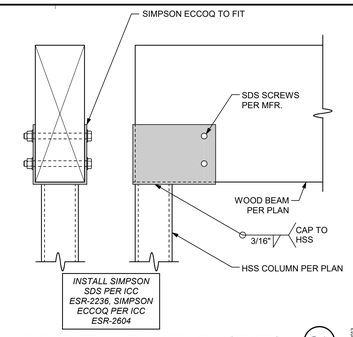
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CHECKED BY:	240520	BTD
PROJECT NO:		DATE:
24149	DSA V3 SUBMITTAL:	06-15-26

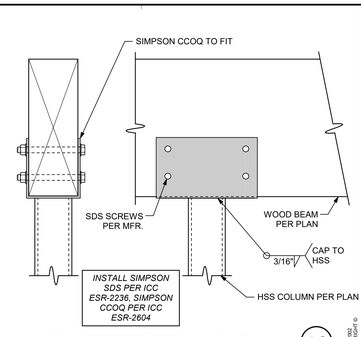
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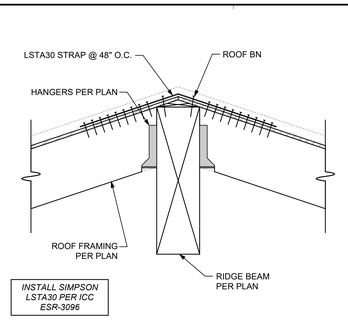
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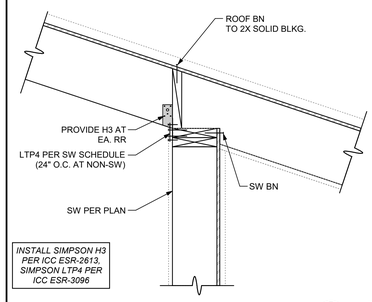
WOOD BEAM TO HSS COL. (EDGE) 21



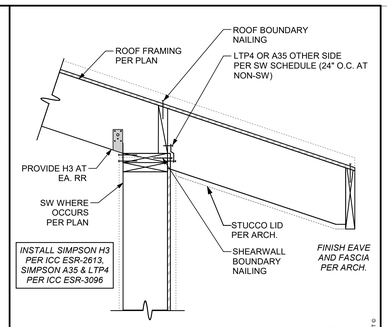
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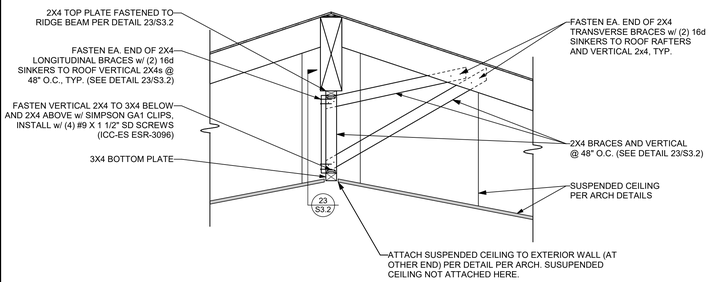
RAFTERS TO FLUSH RIDGE BEAM 11



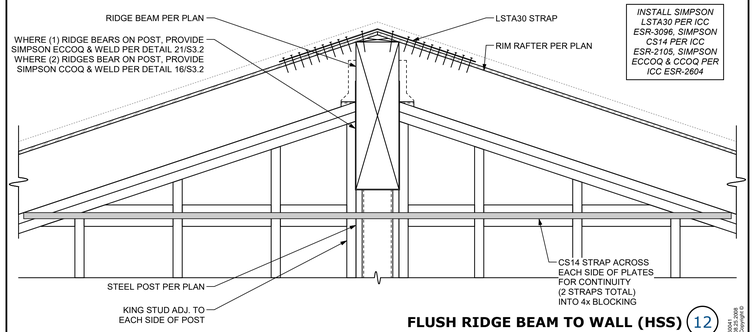
SHEAR TRANSFER TO ROOF 6



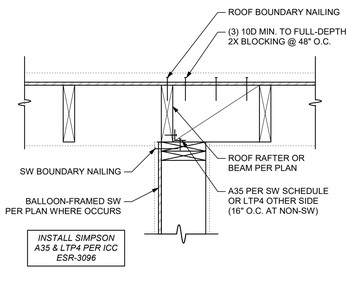
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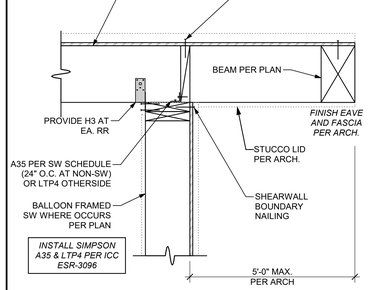
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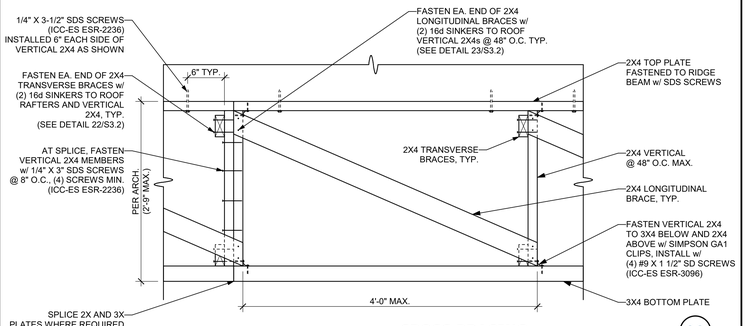
FLUSH RIDGE BEAM TO WALL (HSS) 12



SHEAR TRANSFER TO RAFTERS 7



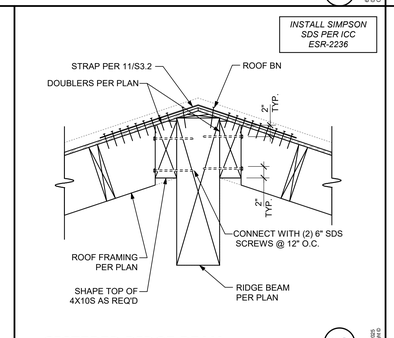
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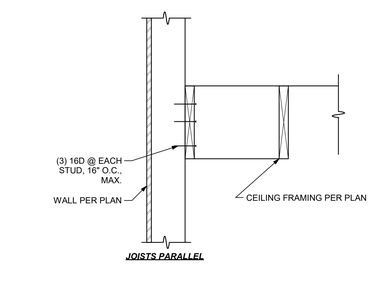
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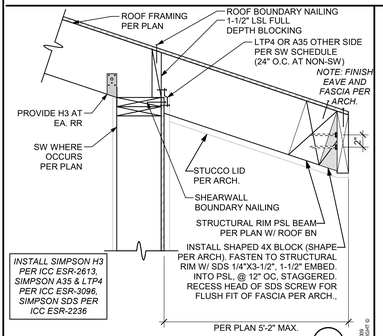
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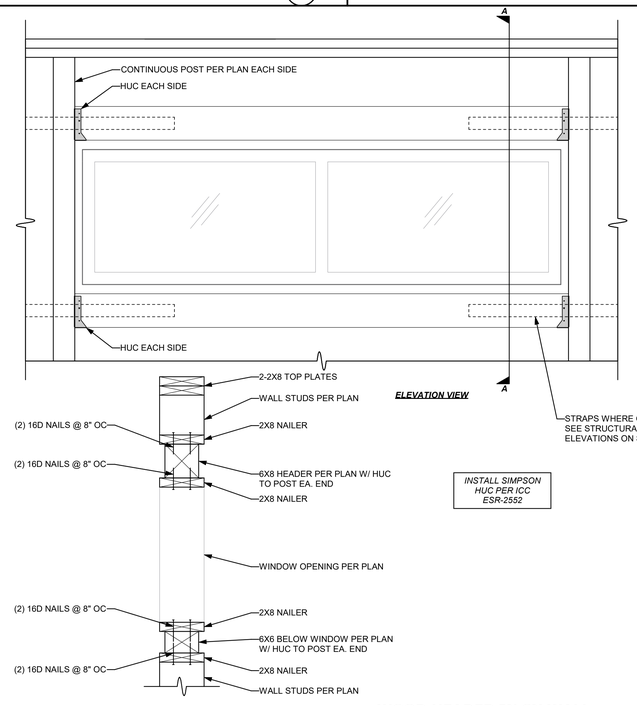
SISTERED RIDGE BEAM 13



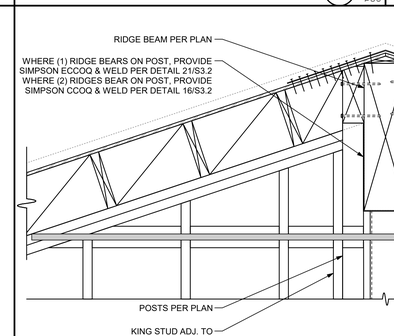
CEILING FRAMING TO WALL 3



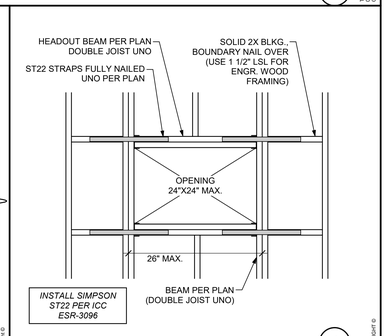
ROOF SHEAR TRANSFER AT PSL 29



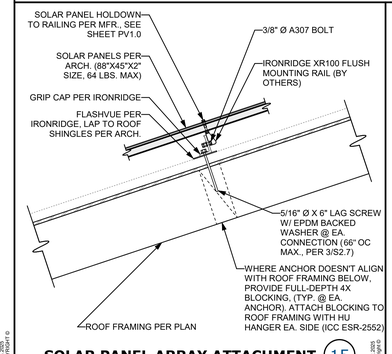
WOOD HEADER IN 8X WALL 20



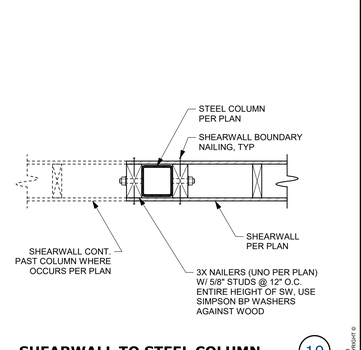
FLUSH RIDGE BEAM TO WALL (HSS) 9



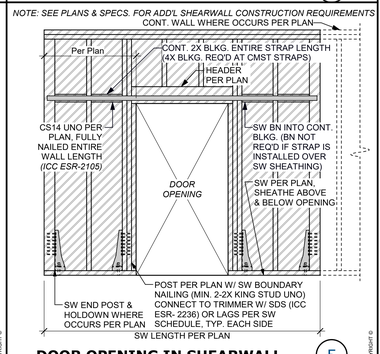
ATTIC ACCESS 4



SOLAR PANEL ARRAY ATTACHMENT 15



SHEARWALL TO STEEL COLUMN 10



DOOR OPENING IN SHEARWALL 5

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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

DRAWN BY:	T&S NO:	AMB
CHECKED BY:	240520	BTD
PROJECT NO:		DATE:
24149	DSA V3 SUBMITTAL: 06-15-26	

S3.2

DSA GENERAL NOTES

1. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
2. THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.
3. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2022.
4. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.
5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

CALIFORNIA GREEN BUILDING STANDARDS CODE

CALIFORNIA GREEN BUILDING STANDARDS CODE: HVAC SYSTEMS SHALL BE IN ACCORDANCE WITH THE SECTION OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE LISTED BELOW:

5.506 - INDOOR AIR QUALITY
SECTION 5.505.1 OUTSIDE AIR DELIVERY - MECHANICAL VENTILATED SPACES IN BUILDINGS SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 (REQUIREMENTS FOR VENTILATION) OF THE CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.
SECTION 5.506.3 CARBON DIOXIDE (CO2) MONITORING IN CLASSROOMS. EACH PUBLIC K-12 SCHOOL CLASSROOM, AS LISTED IN TABLE 120.1-A OF THE CALIFORNIA ENERGY CODE, SHALL BE EQUIPPED WITH A CARBON DIOXIDE MONITOR OR SENSOR THAT MEETS THE FOLLOWING REQUIREMENTS:
1. THE MONITOR OR SENSOR SHALL BE PERMANENTLY AFFIXED IN A TAMPER-PROOF MANNER IN EACH CLASSROOM BETWEEN 3 AND 6 FEET ABOVE THE FLOOR AND AT LEAST 5 FEET AWAY FROM DOORS AND OPERABLE WINDOWS.
2. WHEN THE MONITOR OR SENSOR IS NOT INTEGRAL TO AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS), THE MONITOR SHALL DISPLAY THE CARBON DIOXIDE READINGS ON THE DEVICE. WHEN THE SENSOR IS INTEGRAL TO AN EMCS, THE CARBON DIOXIDE READINGS SHALL BE AVAILABLE TO AND REGULARLY MONITORED BY FACILITY PERSONNEL.
3. A MONITOR SHALL PROVIDE NOTIFICATION THROUGH VISUAL INDICATOR ON THE MONITOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM. A SENSOR INTEGRAL TO AN EMCS SHALL PROVIDE NOTIFICATION TO FACULTY PERSONNEL THROUGH A VISUAL AND/OR AUDIBLE INDICATOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM.
4. THE MONITOR OR SENSOR SHALL MEASURE CARBON DIOXIDE LEVELS AT MINIMUM15-MINUTE INTERVALS AND SHALL MAINTAIN A RECORD OF PREVIOUS CARBON DIOXIDE MEASUREMENTS OF NOT LESS THAN 30 DAYS DURATION.
5. THE MONITOR OR SENSOR USED TO MEASURE CARBON DIOXIDE LEVELS SHALL HAVE THE CAPACITY TO MEASURE CARBON DIOXIDE LEVELS WITH A RANGE OF 400 PPM TO 2000 PPM OR GREATER.
6. THE MONITOR OR SENSOR SHALL BE CERTIFIED BY THE MANUFACTURER TO BE ACCURATE WITHIN 75 PPM AT 1,000 PPM CARBON DIOXIDE CONCENTRATION AND SHALL BE CERTIFIED BY THE MANUFACTURER TO REQUIRE CALIBRATION NO MORE FREQUENTLY THAN ONCE EVERY 5 YEARS.

5.508 - OUTDOOR AIR QUALITY
SECTION 5.508.1 - OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS - HVAC REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2
SECTION 5.508.1.1 CHLOROFLUOROCARBONS (CFCS) - HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFCS.
SECTION 5.508.1.2 HALONS - HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN HALONS.

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 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 HAVING 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 SECTIONS 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 AND SHALL BE IN ACCORDANCE WITH DSA IR 16-13. EACH SYSTEM SHALL BE DESIGNED BY A STRUCTURAL ENGINEER AND COORDINATED WITH THE STRUCTURAL BUILDING DESIGN.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP [X] MD [X] PP [ ] E [ ] - OPTION 1: IR 16-13 SECTION 2.1: PROJECT SPECIFIC DESIGN.
SHEET NUMBERS: M6.1

MP [ ] MD [ ] PP [ ] E [ ] - OPTION 2: IR 16-13 SECTION 2.2: DESIGN BASED ON OSHPD OPM, PART OF PROJECT SUBMITTAL.
OPM NUMBERS:
SHEET NUMBERS:

MP [ ] MD [ ] PP [ ] E [ ] - OPTION 3: IR 16-13 SECTION 2.2.6: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

ACCEPTANCE TESTING REQUIREMENTS

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

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ACCEPTANCE TEST TECHNICIAN (ATT).

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.

ABBREVIATIONS

&	AND
°F	DEGREES FAHRENHEIT
AAV	AUTOMATIC AIR VENT
AC	AIR CONDITIONER
AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AL	ACOUSTICALLY LINED
AMP	AMPERE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
BDD	BACK DRAFT DAMPER
BFP	BACK FLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BTWN	BETWEEN
CA	COMBUSTION AIR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CIRC	CIRCULATING
℄	CENTERLINE
CLG	COOLING, CEILING
CLR	CLEAR
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUED, CONTINUATION
COOL	COOLING
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB
DF	DRINKING FOUNTAIN
D/L	DOOR LOUVER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DWGS	DRAWINGS
(E)	EXISTING
EA	EXHAUST AIR
EAD	EXHAUST AIR DAMPER
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ELEC	ELECTRICAL
ELEV	ELEVATION
ENT	ENTERING
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EW	ENTERING WATER
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXT	EXTERIOR
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FEET
FT HD	FEET HEAD
FTR	FLUE THRU ROOF
GA	GAUGE
GAL	GALLON
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCH
INV	INVERT
KW	KILOWATTS
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
LWB	LEAVING WET BULB
MAD, MD	MANUAL AIR DAMPER
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MCP	MECHANICAL CONTROL PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PD	PRESSURE DROP
PH	PHASE
PLF	POUNDS PER LINEAR FOOT
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
P/T	PRESSURE/TEMPERATURE
QTY	QUANTITY
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RV	RELIEF VALVE
SA	SUPPLY AIR
SC	SENSIBLE COOLING
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SD	SMOKE DAMPER
SM	SHEET METAL
SOV	SHUT-OFF VALVE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SQFT, FT²	SQUARE FEET
SQIN, IN²	SQUARE INCHES
STRUCT	STRUCTURAL
T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" AFF (TO TOP OF STAT)
TC	TOTAL COOLING
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
THRU	THROUGH
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANES
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
W	WATTS
W/	WITH
WB	WET BULB
WC	WATER COLUMN
WH	WATER HEATER
WT	WEIGHT

SYMBOL LEGEND

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
		LONG SWEEP 90° ELBOW - RECTANGULAR, ROUND OR OVAL
		45° ELBOW - RECTANGULAR, ROUND OR OVAL
		30° ELBOW - RECTANGULAR, ROUND OR OVAL
		90° ELBOW - RECTANGULAR DUCT WITH TURNING VANES
		45° LATERAL - ROUND TO ROUND OR OVAL TO OVAL
		90° TAKEOFF WITH 45° TAPER - RECTANGULAR TO RECTANGULAR (FOR BRANCH TAKEOFF LONGER THAN 50'-0", USE 15)
		90° TAKEOFF WITH 45° ELONGATED TEE - ROUND TO ROUND
		Y BRANCH - ROUND OR OVAL DUCT
		90° RADIUS SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, X/Y PROPORTIONAL SPLIT
		90° RECTANGULAR SPLIT - RECTANGULAR DUCT, PROVIDE SPLITTER DAMPER, X/Y PROPORTIONAL SPLIT
		TRANSITION - RECTANGULAR TO ROUND OR RECTANGULAR TO OVAL
		FLEXIBLE DUCT - ROUND
		FLEXIBLE DUCT - RECTANGULAR

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
		SECTION AT SUPPLY AIR OR MAKE-UP AIR DUCT UP
		SECTION AT RETURN AIR OR COMBUSTION AIR DUCT UP
		SECTION AT EXHAUST AIR OR RELIEF AIR DUCT UP
		SUPPLY AIR DUCT DOWN
		RETURN AIR DUCT DOWN
		EXHAUST AIR DUCT DOWN
		ROUND DUCT UP - SUPPLY, RETURN OR EXHAUST
		ROUND DUCT DOWN - SUPPLY, RETURN OR EXHAUST
		CEILING DIFFUSER - ONE, TWO, THREE AND FOUR WAY THROW
		CEILING - RETURN AND EXHAUST REGISTERS
		SIDEWALL - SUPPLY DIFFUSER, RETURN AND EXHAUST REGISTERS
		MANUAL BALANCE DAMPER WITH DUCT ACCESS DOOR
M	M	MOTORIZED BALANCE DAMPER WITH DUCT ACCESS DOOR
FSD OR F/D	FSD OR F/D	FIRE DAMPER WITH DUCT ACCESS DOOR FIRE/SMOKE DAMPER WITH DUCT ACCESS DOOR
24 x 12	24 x 12	ACOUSTICALLY LINED DUCT. DIMENSIONS ARE INSIDE
	12x12 CD-1 300	REGISTER NECK SIZE AND TAG DESIGN CFM
		PANEL AT T-BAR CEILING

SYMBOL	ABBRV.	IDENTIFICATION
		CAP
	CONT	CONTINUATION
		UNION
		LINE BREAK
	CKV	CHECK VALVE
	T&PRV	TEMP. & PRESS. RELIEF VALVE
OR		VALVE
		CONCENTRIC & ECCENTRIC REDUCERS
	AD, AP	ACCESS DOOR, ACCESS PANEL
	MAV	MANUAL AIR VENT
T	T	THERMOSTAT MOUNTED @ 48" AFF. MAX.
CO2	CO2	CARBON DIOXIDE (CO2) SENSOR
$		SWITCH

SYMBOL	ABBRV.	IDENTIFICATION
	P.O.C.	POINT OF CONNECTION
		REMOVE EXISTING
		TEE DOWN
		90 DOWN
FC A-1		EQUIPMENT DESIGNATION
		TAG NUMBER
M2.1		SECTION 1 / SHEET M2.1

LIST OF GOVERNING CODES

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
2022 CALIFORNIA ELECTRICAL CODE, 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 (CEC), 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, 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.

ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.
1. ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.
2. INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
3. TESTS AND TESTING LABORATORY PER SECTION 4-335.
4. SPECIAL INSPECTION PER SECTION 4-333(c).
5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343(c).
6. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4-333(a) AND 4-341.
7. GOVERNING CODES: TITLE 24.
8. A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECTION 4-331.
10. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-334.

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE INSTALLATION. ALL METHODS AND REQUIREMENTS FOR INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE PLANS PRIOR TO SUBMITTING BID. SUBMITTAL OF THE CONTRACTOR'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED.
2. CONTRACTOR SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL SYSTEMS.
3. THE DRAWINGS INCLUDED IN THIS SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORD'S DESIGN INTENT FOR ALL EQUIPMENT AND RELATED PIPING ETC. INDIVIDUAL POWER NEEDS, CONTROLS AND OTHER CONNECTIONS SHALL BE COORDINATED AND COMPLETED/ PROVIDED FOR COMPLETE SYSTEM OPERATION BY CONTRACTOR.
4. EQUIPMENT LOCATIONS AND PIPE ROUTING ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND ROUTE PIPING IN LOCATIONS WHICH MEET CODE REQUIREMENTS AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.
5. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN HATCHED. SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
6. ALL EQUIPMENT, EQUIPMENT CONNECTIONS, PIPING, MOUNTING LOCATIONS ETC. ARE TO BE VERIFIED WITH OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO BEGINNING OF THE ROUGH-IN.
7. ALL WORK SHALL BE PERFORMED TO STATE, LOCAL, NATIONAL AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.
8. ALL EQUIPMENT SHALL BE NEW AND CLEARLY LABELED AND IDENTIFIED. LABELS SHALL NOT BE COVERED BY OTHER CONSTRUCTION ELEMENTS.
9. UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS, CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT AND WORK FOR A PERIOD OF ONE YEAR.
10. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS, EVERYTHING IS NEW.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE WALL OR STRUCTURE.
12. CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL INCLUDE THE PRICE OF INSTALLING ALL CONNECTIONS AS REQUIRED IN THEIR BIDS.
13. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ENGINEER OF RECORD. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.
14. THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/ APPROVAL AND CONTRACTOR BIDDING PURPOSES.
15. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT DRAWINGS.
16. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO BUILDING SERVICES(S) (ELECTRICAL/ HVAC/ PLUMBING ETC.) MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTIME SHALL NOT OCCUR DURING SCHOOL OPERATION HOURS.
17. IN INSTANCES WHERE A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS AND INSTALLATION MANUALS FOR THE PROJECT EXISTS, THE CONTRACTOR SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.
18. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.
19. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.
20. FOR ALL VOLUME DAMPERS LOCATED ABOVE CEILINGS, PROVIDE 12" LONG 1/2" WIDE FLUORESCENT ORANGE TAPE TO MARK DAMPER LOCATIONS.
21. ALL DUCTWORK, CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. WHERE WORK HAS TO BE INSTALLED IN EXPOSED LOCATIONS, IT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES OR PER ARCHITECT'S DIRECTION.
22. CONTRACTOR SHALL PREPARE AND SUBMIT THE CALIFORNIA ENERGY COMMISSION TITLE 24 CERTIFICATE OF ACCEPTANCE FORMS RELATED TO INSTALLED EQUIPMENT AND SYSTEMS.
23. SAFETY: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
24. CONTRACTOR'S EQUIPMENT: COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. COORDINATE WITH OWNER FOR LOCATION AND PROCEDURES.
25. ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.
26. CONSTRUCTION SCHEDULING: CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.
27. TITLE 24 COMPLIANCE: THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (2022 CBC). SHOULD ANY CONDITIONS BE DISCOVERED NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK DOES NOT COMPLY WITH 2022 CBC, A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.
28. THESE DOCUMENTS MAKE NO REPRESENTATION AS TO THE EXISTENCE OR LOCATION OF EXISTING HAZARDOUS MATERIALS (INCLUDING ASBESTOS CONTAINING MATERIALS) AT THE SITE. SHOULD CONTRACTOR DISCOVER SUSPECTED HAZARDOUS MATERIALS AT THE SITE HE SHALL IMMEDIATELY BRING IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO STARTING OR CONTINUING WORK INVOLVING THOSE MATERIALS.

DRAWING INDEX

M0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL
M0.2 SCHEDULES AND PELICAN SEQUENCE OF OPERATIONS - MECHANICAL
M2.1 BUILDINGS 060A & 060B - NEW FLOOR PLANS - MECHANICAL
M4.1 BUILDINGS 060A & 060B - SECTION VIEWS - MECHANICAL
M5.1 MECHANICAL CONTROLS
M5.2 MECHANICAL CONTROLS
M6.1 DETAILS - MECHANICAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
MEIN SERTIFIKATE
No. M31059
EXP. JUNE 30, 2027
MECHANICAL
STATE OF CALIFORNIA

CEG JOB NO: 25001

CYPRESS Engineering Group
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Energy Modeling
Training & Technical Support
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com

SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: JL
CHECKED BY: CS
PROJECT NO: 24149 DATE: DSA V3 SUBMITTAL: 06-12-26

M0.1

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SPLIT SYSTEM AIR CONDITIONERS SCHEDULE

TAG	MANUFACTURER	MODEL	AREA(S) SERVED	RATED COOLING CAPACITY, MBH	RATED HEATING CAPACITY, MBH	AIRFLOW CFM	ESP IN. W.G.	REFRIGERANT PIPING		SEER2 EER2	HSPF2 COP	ELECTRICAL						WEIGHT LBS	MOUNTING DETAIL	NOTES
								LIQUID	GAS			UNIT				ELECTRIC HEATER				
												V / PH	MCA	RFS	MOCP	V / PH	KW			
HP-80	MITSUBISHI	PUZ-AK36NL	INTERVENTION 80 BREAK-OUT CLASSROOMS 80A, 80B, 80C	36	40	--	--	3/8"	5/8"	19.5 12.1	9.2 4.2	208 / 1	34	35	56	--		225	1/M6.1	
FC-80	MITSUBISHI	PVA-AA36NL				1,125	0.8	3/8"	5/8"	NOTE 1						208 / 1	7.5	175	2/M6.1	3, 4, 5, 6
HP-81	MITSUBISHI	PUZ-AK48NL	SPED 1 81	48	60	--	--	3/8"	5/8"	18.1 10.6	8.4 3.1	208 / 1	38	40	67	--		265	1/M6.1	
FC-81	MITSUBISHI	PVA-AA48NL				1,480	0.8	3/8"	5/8"	NOTE 1						208 / 1	7.5	175	2/M6.1	2, 3, 4, 5
HP-82	MITSUBISHI	PUZ-AK48NL	SPED 2 82	48	60	--	--	3/8"	5/8"	18.1 10.6	8.4 3.1	208 / 1	38	40	67	--		265	1/M6.1	
FC-82	MITSUBISHI	PVA-AA48NL				1,380	0.8	3/8"	5/8"	NOTE 1						208 / 1	7.5	175	2/M6.1	2, 3, 4, 5
HP-83A	MITSUBISHI	MUY-GX18NL	ELECT/IDF 83A	22	--	--	--	1/4"	1/2"	22.5 14.05	--	208 / 1	23	25	40	--		120	1/M6.1	
FC-83A	MITSUBISHI	MSY-GX18NL				650	--	1/4"	1/2"	NOTE 1						NONE		40	3/M6.1	2, 5
HP-83	MITSUBISHI	PUZ-AK36NL	CLASSROOM 1 83	36	40	--	--	3/8"	5/8"	19.5 12.1	9.2 4.2	208 / 1	34	35	56	--		225	1/M6.1	
FC-83	MITSUBISHI	PVA-AA36NL				1,125	0.8	3/8"	5/8"	NOTE 1						208 / 1	7.5	175	2/M6.1	2, 3, 4, 5
HP-84	MITSUBISHI	PUZ-AK36NL	CLASSROOM 2 84	36	40	--	--	3/8"	5/8"	19.5 12.1	9.2 4.2	208 / 1	34	35	56	--		225	1/M6.1	
FC-84	MITSUBISHI	PVA-AA36NL				1,125	0.8	3/8"	5/8"	NOTE 1						208 / 1	7.5	175	2/M6.1	2, 3, 4, 5
HP-85	MITSUBISHI	PUZ-AK36NL	CLASSROOM 3 85	36	40	--	--	3/8"	5/8"	19.5 12.1	9.2 4.2	208 / 1	34	35	56	--		225	1/M6.1	
FC-85	MITSUBISHI	PVA-AA36NL				1,125	0.8	3/8"	5/8"	NOTE 1						208 / 1	7.5	175	2/M6.1	2, 3, 4, 5
HP-86	MITSUBISHI	PUZ-AK36NL	CLASSROOM 4 86	36	40	--	--	3/8"	5/8"	19.5 12.1	9.2 4.2	208 / 1	34	35	56	--		225	1/M6.1	
FC-86	MITSUBISHI	PVA-AA36NL				1,125	0.8	3/8"	5/8"	NOTE 1						208 / 1	7.5	175	2/M6.1	2, 3, 4, 5

1. INDOOR UNIT POWERED BY OUTDOOR UNIT.
2. PROVIDE WITH PELICAN TC3 THERMOSTAT WITH THERMOSTAT ADAPTER AND TRANSFORMER. PROVIDE WITH PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER.
3. PROVIDE WITH 2" THICK MERV 13 FILTERS AND FILTER BOX WITH HINGED ACCESS PANEL AND TOOL-LESS ENTRY.
4. PROVIDE WITH ELECTRIC HEAT KIT MODEL EH10-MPA-LB. A SEPARATE POWER SUPPLY IS NEEDED FOR THE HEATER.
5. RATED COOLING CAPACITIES BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB). OUTDOOR OF 95°F (DB). RATED HEATING CAPACITIES BASED ON INDOOR COIL EAT OF 70°F (DB). OUTDOOR OF 43°F (WB).
6. PROVIDE WITH PELICAN WIRELESS TC3 THERMOSTAT WITH THERMOSTAT ADAPTER AND TRANSFORMER AND RT2-DC REMOTE SENSORS. PROVIDE WITH PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER.

ROOF HOODS SCHEDULE

TAG	MANUFACTURER	MODEL NO.	TYPE	AREA SERVED	THROAT SIZE	HOOD SIZE	CURB CAP SIZE	WEIGHT LBS	MOUNTING DETAIL	NOTES
RH-80	GREENHECK	GRSR-24	RELIEF	INTERVENTION 80	24.5" Ø	38.25" Ø	34" x 34"	70	5/M6.1	1, 2
RH-81	GREENHECK	GRSR-24	RELIEF	SPED 1 81	24.5" Ø	38.25" Ø	34" x 34"	70	5/M6.1	1, 2
RH-82	GREENHECK	GRSR-24	RELIEF	SPED 2 82	24.5" Ø	38.25" Ø	34" x 34"	70	5/M6.1	1, 2
RH-83	GREENHECK	GRSR-24	RELIEF	CLASSROOM 1 83	24.5" Ø	38.25" Ø	34" x 34"	70	5/M6.1	1, 2
RH-84	GREENHECK	GRSR-24	RELIEF	CLASSROOM 2 84	24.5" Ø	38.25" Ø	34" x 34"	70	5/M6.1	1, 2
RH-85	GREENHECK	GRSR-24	RELIEF	CLASSROOM 3 85	24.5" Ø	38.25" Ø	34" x 34"	70	5/M6.1	1, 2
RH-86	GREENHECK	GRSR-24	RELIEF	CLASSROOM 4 86	24.5" Ø	38.25" Ø	34" x 34"	70	5/M6.1	1, 2

1. PROVIDE WITH MOTORIZED BACKDRAFT DAMPER W/24V ACTUATOR, ALUMINUM MESH INSECT SCREEN, AND GALVANIZED BIRDSCREEN.
2. PROVIDE WITH GREENHECK GPIP PITCHED ROOF CURB.

EXHAUST FANS SCHEDULE

TAG	MANUFACTURER	MODEL NO.	AREA SERVED	AIRFLOW CFM	ESP IN. W.G.	FAN RPM	SOUND POWER SONES	MOTOR		WEIGHT LBS	MOUNTING DETAIL	NOTES
								WATTS	V / PH			
EF-81B	GREENHECK	SP-A110	STUDENT UNISEX 81B	85	0.25	915	0.6	15	115 / 1	20	4/M6.1	1
EF-82B	GREENHECK	SP-A110	STUDENT UNISEX 82B	85	0.25	915	0.6	15	115 / 1	20	4/M6.1	1
EF-83B	GREENHECK	SP-A110	STAFF UNISEX 83B	85	0.25	915	0.6	15	115 / 1	20	4/M6.1	1
EF-83C	GREENHECK	SP-A110	STAFF UNISEX 83C	85	0.25	915	0.6	15	115 / 1	20	4/M6.1	1

1. PROVIDE WITH UL LISTING, SPEED CONTROLLER, FACTORY MOUNTING BRACKET, SPRING LOADED BACKDRAFT DAMPER, AND VIBRATION ISOLATION KIT.

AIR DISTRIBUTION SCHEDULE

TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	BORDER TYPE	MOUNTING DETAIL	NOTES
CD-1	TITUS	MCD	MODULAR CORE CEILING DIFFUSER	LAY-IN	6/M6.1	1
CD-2	TITUS	MCD	MODULAR CORE CEILING DIFFUSER	SURFACE MOUNT	6/M6.1	1
RG-1	TITUS	8R	RETURN GRILLE	LAY-IN	6/M6.1	1
TG-1	TITUS	8R	TRANSFER GRILLE	LAY-IN	6/M6.1	1
TG-2	TITUS	8R	TRANSFER GRILLE	SURFACE MOUNT	6/M6.1	1
HSR-1	TITUS	350RL	HIGH SIDEWALL RETURN	SURFACE MOUNT	7/M6.1	1

1. PRIME AND PAINT PER ARCHITECT'S INSTRUCTIONS.

DOOR LOUVER SCHEDULE

TAG	MANUFACTURER	MODEL NO.	SIZE	NOTES
DL-1	TITUS	T-700L	8" x 8"	1, 2

1. BORDER TYPE 1, SURFACE MOUNT.
2. PRIME AND PAINT TO MATCH DOOR COLOR OR PER ARCHITECT'S INSTRUCTIONS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
MEIN SERTIFIED
No. M31059
EXP. JUNE 30, 2027
MECHANICAL
STATE OF CALIFORNIA

CEG JOB NO: 25001

CYPRESS Engineering Group
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Environmental Compliance
Training & Technical Support
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com

SCHEDULES AND PELICAN SEQUENCE OF OPERATIONS - MECHANICAL

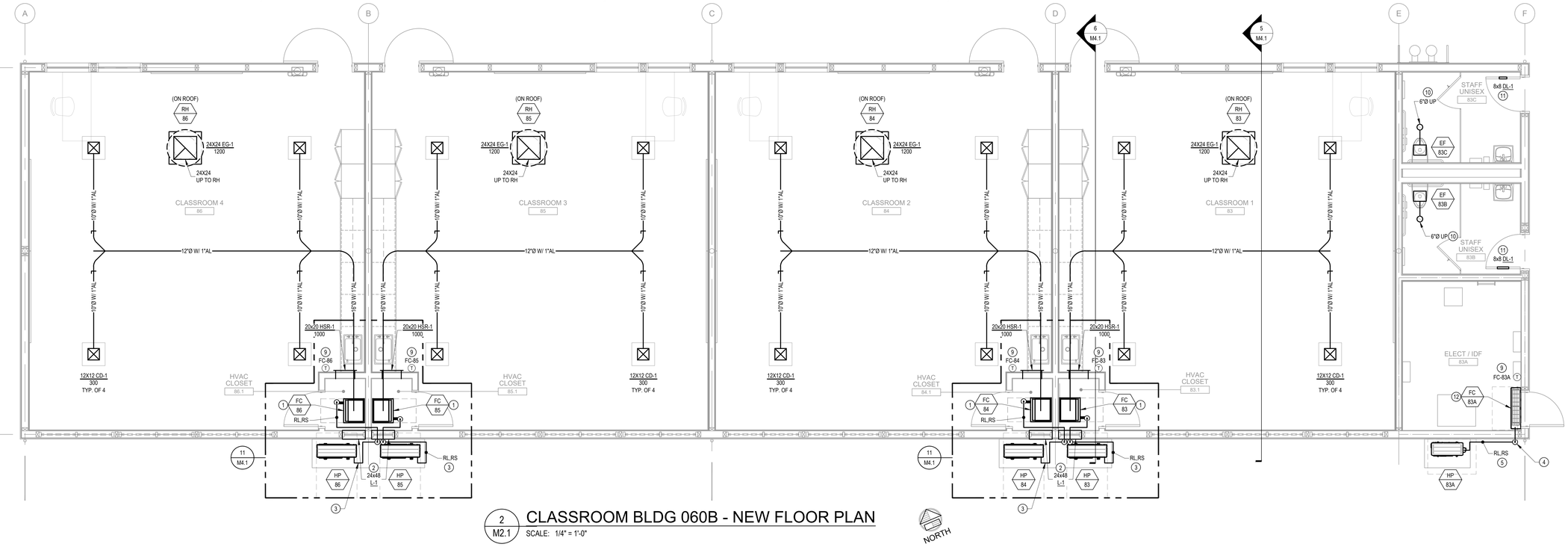
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: JL
CHECKED BY: CS
PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-12-26

M0.2

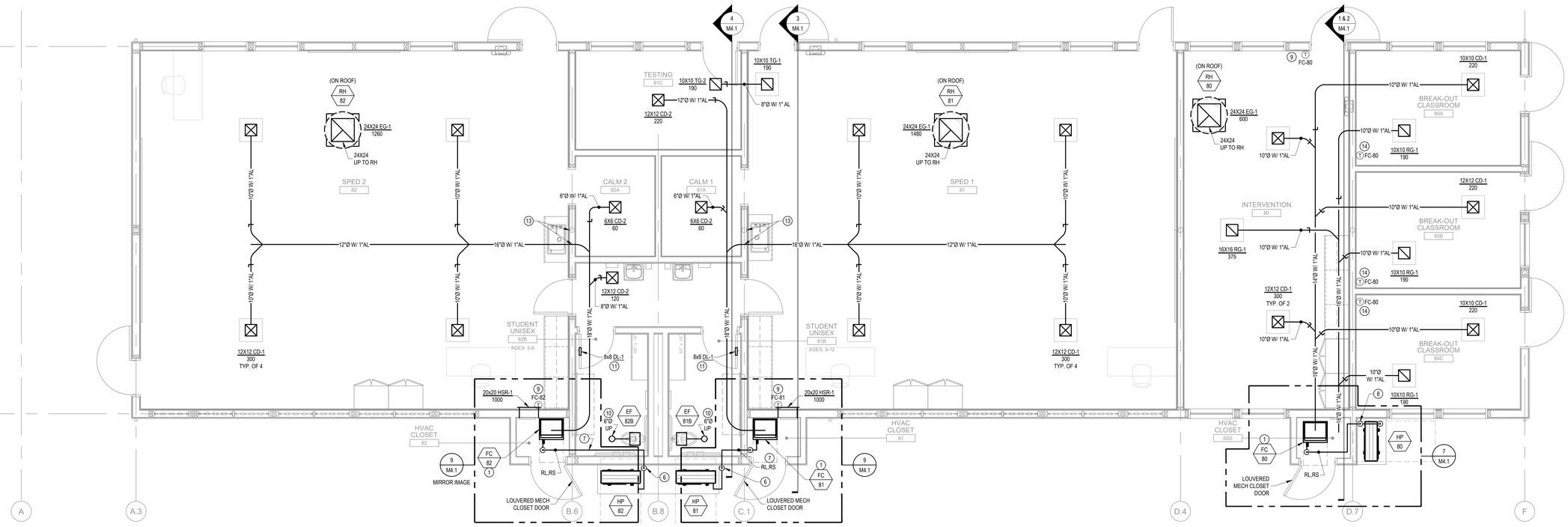
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2 M2.1 CLASSROOM BLDG 060B - NEW FLOOR PLAN

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

NORTH



1 M2.1 CLASSROOM BLDG 060A - NEW FLOOR PLAN

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

NORTH

CONSTRUCTION NOTES

1. INSTALL FAN COIL ON STAND. SEE M4.1 FOR DUCTWORK IN HVAC CLOSET.
2. OUTSIDE AIR LOUVER HIGH ON WALL. SEE SECTION VIEWS ON M4.1.
3. RUN REFRIGERANT PIPING LOW ON EXTERIOR WALL AND PENETRATE BELOW LOUVER INTO HVAC CLOSET. COORDINATE WITH PLUMBING CONTRACTOR TO UTILIZE THE SAME WALL PENETRATION FOR REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING TO MINIMIZE WALL PENETRATIONS.
4. REFRIGERANT PIPING PENETRATION HIGH ON WALL. DROP PIPE DOWN EXTERIOR WALL TO HEAT PUMP. COORDINATE WITH PLUMBING CONTRACTOR TO UTILIZE THE SAME WALL PENETRATION FOR REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING TO MINIMIZE WALL PENETRATIONS. SEE DETAIL 13/P6.1 FOR PIPES THROUGH RATED WALL.
5. RUN REFRIGERANT PIPING LOW ON WALL.
6. RISE REFRIGERANT PIPING ON EXTERIOR WALL AND PENETRATE ABOVE RESTROOM CEILING.
7. RUN REFRIGERANT PIPING ABOVE RESTROOM CEILING.
8. REFRIGERANT PIPING PENETRATION ABOVE FAN COIL STAND INTO HVAC CLOSET.
9. INSTALL THERMOSTAT AT 48" AFF MAX AND WIRE TO FAN COIL.
10. EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH EXHAUST CAP. SEE DETAIL 15/M6.1.
11. INSTALL DOOR LOUVER LOW ON DOOR.
12. INSTALL FAN COIL ABOVE DOOR.
13. DUCT PENETRATIONS THROUGH WALLS AT GRIDLINES B.6 AND C.1 SHALL BE OFFSET TO AVOID PENETRATION THROUGH STRUCTURAL COLUMN.
14. INSTALL REMOTE PELICAN TEMPERATURE SENSOR.

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES, AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
2. COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK, PIPING, AND ALL MECHANICAL AND PLUMBING EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
3. SEE ARCHITECT'S DRAWINGS FOR PATCHING AND REPAIR OF ROOF, WALL, AND FLOOR PENETRATIONS.
4. INFORMATION SHOWN IS BASED ON AVAILABLE AS-BUILTS AND THE LOCATION OF ALL EQUIPMENT, DUCTS, PENETRATIONS, PIPING, AND OTHER PROJECTIONS SHOWN ON THE PLANS IS APPROXIMATE. NOT ALL EXISTING ITEMS ARE IDENTIFIED OR SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS, INCLUDING ALL RELEVANT DIMENSIONS, EQUIPMENT COUNTS, AND LOCATIONS PRIOR TO SUBMITTING A BID.
5. SEE PLANS AND SPECIFICATIONS FOR ALL OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK THAT MAY NOT BE SHOWN HERE. COORDINATE WITH GENERAL CONTRACTOR TO CONFIRM ENTIRE SCOPE OF WORK HAS BEEN INCLUDED.
6. SEE DETAIL 8/M6.1 FOR EXTERIOR PIPE SUPPORTS. SEE DETAIL 9/M6.1 FOR INTERIOR PIPE SUPPORTS.
7. SEE DETAIL 10/M6.1 FOR DUCT SUPPORTS.

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APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
MEIN SERTUNC
No. M31059
EXP. JUNE 30, 2027
MECHANICAL
STATE OF CALIFORNIA

CEG JOB NO: 25001
CYPRESS Engineering Group
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Environmental Assessment
Training & Technical Support
831.218.1802
81 Harris Court, Suite A8
Monterey, CA 93940
cypresseng.com

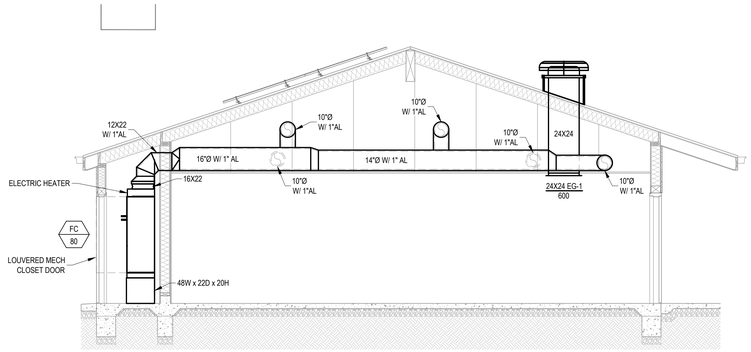
BUILDINGS 060A & 060B - NEW FLOOR PLANS - MECHANICAL

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

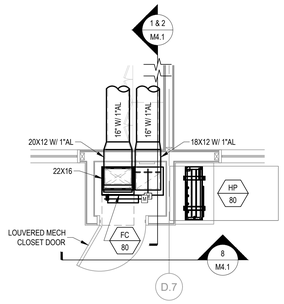
DRAWN BY: JL
CHECKED BY: CS
PROJECT NO: 24149 DATE: DSA V3 SUBMITTAL: 06-12-26

M2.1



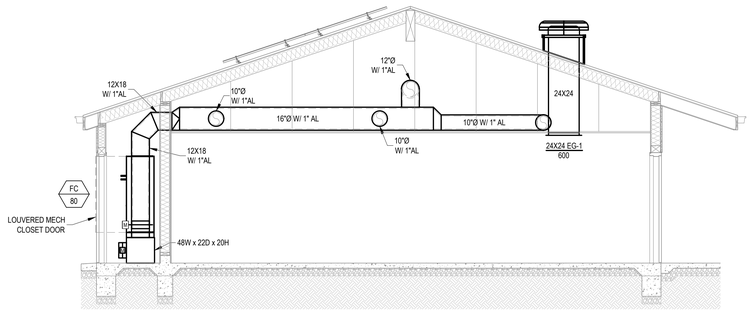
FC-80
BUILDING 060A SECTION - SUPPLY DUCTWORK

1 / M4.1 SCALE: 1/4" = 1'-0"



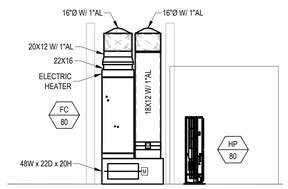
FC-80
ENLARGED PLAN VIEW

7 / M4.1 SCALE: 1/4" = 1'-0"



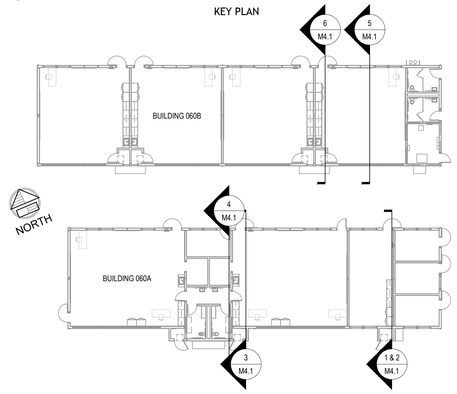
FC-80
BUILDING 060A SECTION - RETURN DUCTWORK

2 / M4.1 SCALE: 1/4" = 1'-0"



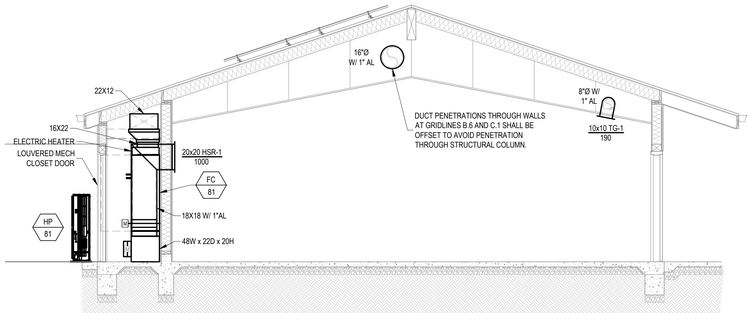
FC-80
SECTION VIEW

8 / M4.1 SCALE: 1/4" = 1'-0"



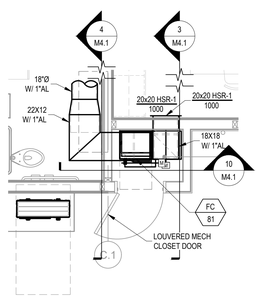
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1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES, AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
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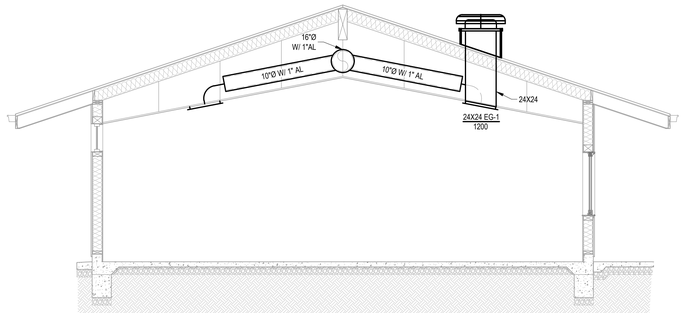
FC-81 (FC-82 MIRROR IMAGE)
BUILDING 060A SECTION

3 / M4.1 SCALE: 1/4" = 1'-0"



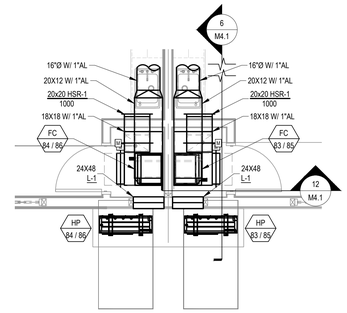
FC-81 (FC-82 MIRROR IMAGE)
ENLARGED PLAN VIEW

9 / M4.1 SCALE: 1/4" = 1'-0"



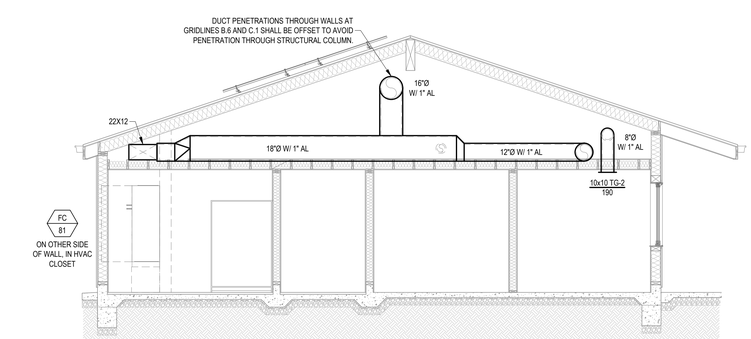
FC-83 (FC-84 & FC-86 MIRROR IMAGE; FC-85 SIMILAR)
BUILDING 060B SECTION - AT CLASSROOM 1

5 / M4.1 SCALE: 1/4" = 1'-0"



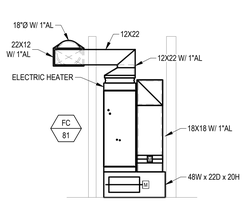
FC-83 & FC-84; FC-85 & FC-86
ENALRGED PLAN VIEW

11 / M4.1 SCALE: 1/4" = 1'-0"



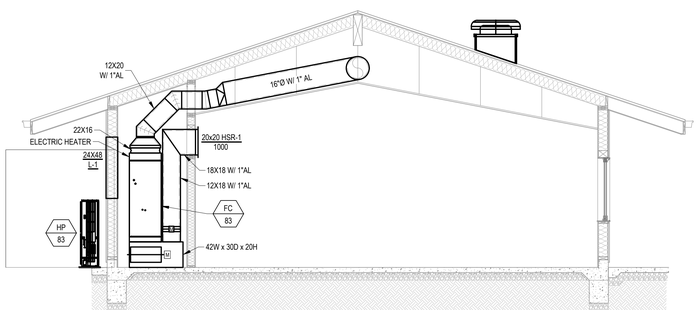
FC-81 (FC-82 MIRROR IMAGE)
BUILDING 060A SECTION

4 / M4.1 SCALE: 1/4" = 1'-0"



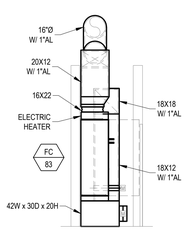
FC-81 (FC-82 MIRROR IMAGE)
SECTION VIEW

10 / M4.1 SCALE: 1/4" = 1'-0"



FC-83 (FC-84 & FC-86 MIRROR IMAGE; FC-85 SIMILAR)
BUILDING 060B SECTION

6 / M4.1 SCALE: 1/4" = 1'-0"



FC-83 (FC-84 & FC-86 MIRROR IMAGE; FC-85 SIMILAR)
SECTION VIEW

12 / M4.1 SCALE: 1/4" = 1'-0"

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APP: 03-125585 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
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PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
MEIN SERTUNC
No. M31059
EXP. JUNE 30, 2027
MECHANICAL
STATE OF CALIFORNIA

CEG JOB NO: 25001
CYPRESS Engineering Group
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Environmental Balancing
Training & Technical Support
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com

BUILDINGS 060A & 060B - SECTION VIEWS - MECHANICAL

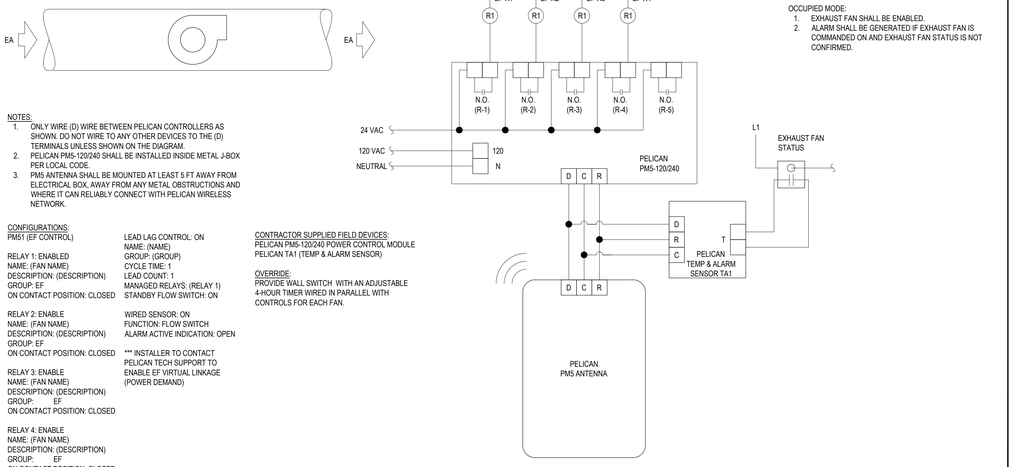
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY: JL
CHECKED BY: CS
PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-12-26

M4.1



NOTES:
1. ONLY WIRE (D) WIRE BETWEEN PELICAN CONTROLLERS AS SHOWN. DO NOT WIRE TO ANY OTHER DEVICES TO THE (D) TERMINALS UNLESS SHOWN ON THE DIAGRAM.
2. PELICAN PM5-120/240 SHALL BE INSTALLED INSIDE METAL J-BOX PER LOCAL CODE.
3. PM5 ANTENNA SHALL BE MOUNTED AT LEAST 5 FT AWAY FROM ELECTRICAL BOX, AWAY FROM ANY METAL OBSTRUCTIONS AND WHERE IT CAN RELIABLY CONNECT WITH PELICAN WIRELESS NETWORK.

CONFIGURATIONS:
PM51 (EF CONTROL)
LEAD LAG CONTROL: ON
NAME: (NAME)
GROUP: (GROUP)
CYCLE TIME: 1
LEAD COUNT: 1
MANAGED RELAYS: (RELAY 1)
STANDBY FLOW SWITCH: ON

RELAY 1: ENABLED
NAME: (FAN NAME)
DESCRIPTION: (DESCRIPTION)
GROUP: EF
ON CONTACT POSITION: CLOSED

RELAY 2: ENABLE
NAME: (FAN NAME)
DESCRIPTION: (DESCRIPTION)
GROUP: EF
ON CONTACT POSITION: CLOSED

RELAY 3: ENABLE
NAME: (FAN NAME)
DESCRIPTION: (DESCRIPTION)
GROUP: EF
ON CONTACT POSITION: CLOSED

RELAY 4: ENABLE
NAME: (FAN NAME)
DESCRIPTION: (DESCRIPTION)
GROUP: EF
ON CONTACT POSITION: CLOSED

RELAY 5: DISABLED

WIRED SENSOR: ON
FUNCTION: FLOW SWITCH
ALARM ACTIVE INDICATION: OPEN

*** INSTALLER TO CONTACT PELICAN TECH SUPPORT TO ENABLE EF VIRTUAL LINKAGE (POWER DEMAND)

CONTRACTOR SUPPLIED FIELD DEVICES:
PELICAN PM5-120/240 POWER CONTROL MODULE
PELICAN TA1 (TEMP & ALARM SENSOR)

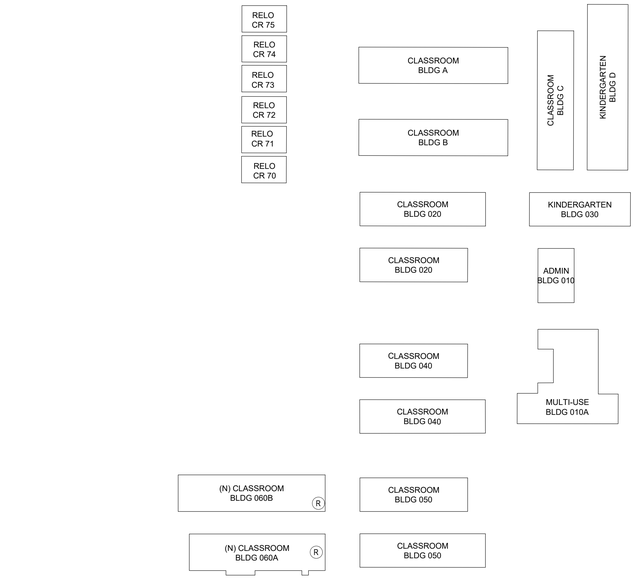
OVERRIDE:
PROVIDE WALL SWITCH WITH AN ADJUSTABLE 4-HOUR TIMER WIRED IN PARALLEL WITH CONTROLS FOR EACH FAN.

CONTROL SEQUENCE OF OPERATION

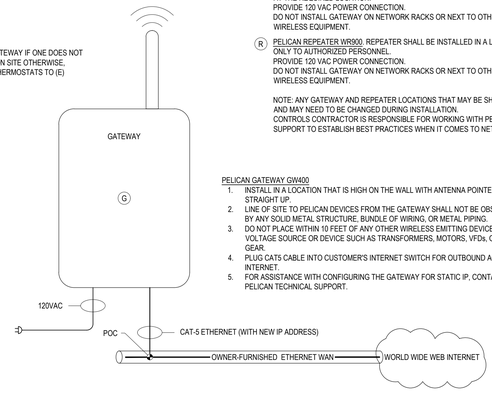
UNOCCUPIED MODE:
1. EXHAUST FAN SHALL BE OFF.

OCCUPIED MODE:
1. EXHAUST FAN SHALL BE ENABLED.
2. ALARM SHALL BE GENERATED IF EXHAUST FAN IS COMMANDED ON AND EXHAUST FAN STATUS IS NOT CONFIRMED.

2 EXHAUST FAN CONTROL SCHEMATIC (EF-81B, EF-82B, EF-83B, EF-83C)



PROVIDE NEW GATEWAY IF ONE DOES NOT ALREADY EXIST ON SITE OTHERWISE, CONNECT NEW THERMOSTATS TO (E) GATEWAY.

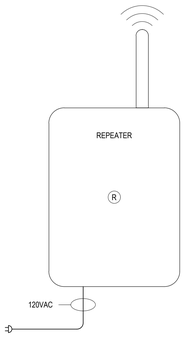


G PELICAN GATEWAY GW400. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH DISTRICT IT DEPARTMENT TO PROVIDE AN AVAILABLE ETHERNET PORT AT THE REQUIRED LOCATION.
PROVIDE 120 VAC POWER CONNECTION.
DO NOT INSTALL GATEWAY ON NETWORK RACKS OR NEXT TO OTHER NETWORK OR WIRELESS EQUIPMENT.

R PELICAN REPEATER WR900. REPEATER SHALL BE INSTALLED IN A LOCATION ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
PROVIDE 120 VAC POWER CONNECTION.
DO NOT INSTALL GATEWAY ON NETWORK RACKS OR NEXT TO OTHER NETWORK OR WIRELESS EQUIPMENT.

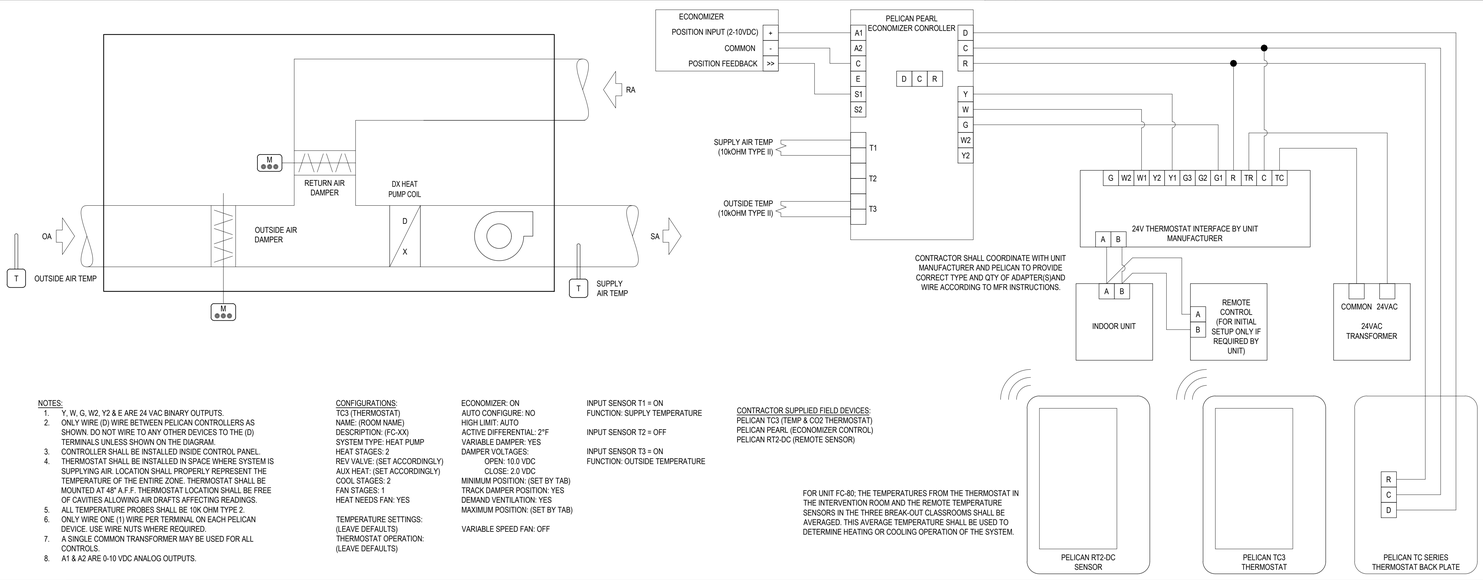
NOTE: ANY GATEWAY AND REPEATER LOCATIONS THAT MAY BE SHOWN ARE PRELIMINARY AND MAY NEED TO BE CHANGED DURING INSTALLATION.
CONTROLS CONTRACTOR IS RESPONSIBLE FOR WORKING WITH PELICAN TECHNICAL SUPPORT TO ESTABLISH BEST PRACTICES WHEN IT COMES TO NETWORK ESTABLISHMENT.

PELICAN GATEWAY GW400
1. INSTALL IN A LOCATION THAT IS HIGH ON THE WALL WITH ANTENNA POINTED STRAIGHT UP.
2. LINE OF SITE TO PELICAN DEVICES FROM THE GATEWAY SHALL NOT BE OBSTRUCTED BY ANY SOLID METAL STRUCTURE, BUNDLE OF WIRING, OR METAL PIPING.
3. DO NOT PLACE WITHIN 10 FEET OF ANY OTHER WIRELESS EMITTING DEVICE OR HIGH VOLTAGE SOURCE OR DEVICE SUCH AS TRANSFORMERS, MOTORS, VFDs, OR SWITCH GEAR.
4. PLUG CAT5 CABLE INTO CUSTOMER'S INTERNET SWITCH FOR OUTBOUND ACCESS TO INTERNET.
5. FOR ASSISTANCE WITH CONFIGURING THE GATEWAY FOR STATIC IP, CONTACT PELICAN TECHNICAL SUPPORT.



PELICAN REPEATER WR900
1. INSTALL IN A LOCATION THAT IS HIGH ON THE WALL WITH ANTENNA POINTED STRAIGHT UP.
2. LINE OF SITE TO PELICAN DEVICES FROM THE GATEWAY SHALL NOT BE OBSTRUCTED BY ANY SOLID METAL STRUCTURE, BUNDLE OF WIRING, OR METAL PIPING.
3. DO NOT PLACE WITHIN 10 FEET OF ANY OTHER WIRELESS EMITTING DEVICE OR HIGH VOLTAGE SOURCE OR DEVICE SUCH AS TRANSFORMERS, MOTORS, VFDs, OR SWITCH GEAR.
4. LOCATE IN SUCH A MANNER THAT IT CAN REACH THE LTE NETWORK OUTSIDE OF THE STRUCTURE.

1 EMS SYSTEM ARCHITECTURE



CONTRACTOR SHALL COORDINATE WITH UNIT MANUFACTURER AND PELICAN TO PROVIDE CORRECT TYPE AND QTY OF ADAPTER(S)AND WIRE ACCORDING TO MFR INSTRUCTIONS.

NOTES:
1. Y, W, G, W2, Y2 & E ARE 24 VAC BINARY OUTPUTS.
2. ONLY WIRE (D) WIRE BETWEEN PELICAN CONTROLLERS AS SHOWN. DO NOT WIRE TO ANY OTHER DEVICES TO THE (D) TERMINALS UNLESS SHOWN ON THE DIAGRAM.
3. CONTROLLER SHALL BE INSTALLED INSIDE CONTROL PANEL.
4. THERMOSTAT SHALL BE INSTALLED IN SPACE WHERE SYSTEM IS SUPPLYING AIR. LOCATION SHALL PROPERLY REPRESENT THE TEMPERATURE OF THE ENTIRE ZONE. THERMOSTAT SHALL BE MOUNTED AT 48" A.F.F. THERMOSTAT LOCATION SHALL BE FREE OF CAVITIES ALLOWING AIR DRAFTS AFFECTING READINGS.
5. ALL TEMPERATURE PROBES SHALL BE 10K OHM TYPE 2.
6. ONLY WIRE ONE (1) WIRE PER TERMINAL ON EACH PELICAN DEVICE. LISE WIRE NUTS WHERE REQUIRED.
7. A SINGLE COMMON TRANSFORMER MAY BE USED FOR ALL CONTROLS.
8. A1 & A2 ARE 0-10 VDC ANALOG OUTPUTS.

CONFIGURATIONS:
TC3 (THERMOSTAT)
NAME: (ROOM NAME)
DESCRIPTION: (FC-XX)
SYSTEM TYPE: HEAT PUMP
HEAT STAGES: 2
REV VALVE: (SET ACCORDINGLY)
AUX HEAT: (SET ACCORDINGLY)
COOL STAGES: 2
FAN STAGES: 1
HEAT NEEDS FAN: YES

TEMPERATURE SETTINGS: (LEAVE DEFAULTS)
THERMOSTAT OPERATION: (LEAVE DEFAULTS)

ECONOMIZER: ON
AUTO CONFIGURE: NO
HIGH LIMIT: AUTO
ACTIVE DIFFERENTIAL: 2°F
VARIABLE DAMPER: YES
DAMPER VOLTAGES:
OPEN: 10.0 VDC
CLOSE: 2.0 VDC
MINIMUM POSITION: (SET BY TAB)
TRACK DAMPER POSITION: YES
DEMAND VENTILATION: YES
MAXIMUM POSITION: (SET BY TAB)

VARIABLE SPEED FAN: OFF

INPUT SENSOR T1 = ON
FUNCTION: SUPPLY TEMPERATURE

INPUT SENSOR T2 = OFF

INPUT SENSOR T3 = ON
FUNCTION: OUTSIDE TEMPERATURE

CONTRACTOR SUPPLIED FIELD DEVICES:
PELICAN TC3 (TEMP & CO2 THERMOSTAT)
PELICAN PEARL (ECONOMIZER CONTROL)
PELICAN RT2-DC (REMOTE SENSOR)

FOR UNIT FC-80, THE TEMPERATURES FROM THE THERMOSTAT IN THE INTERVENTION ROOM AND THE REMOTE TEMPERATURE SENSORS IN THE THREE BREAK-OUT CLASSROOMS SHALL BE AVERAGED. THIS AVERAGE TEMPERATURE SHALL BE USED TO DETERMINE HEATING OR COOLING OPERATION OF THE SYSTEM.

CONTROL SEQUENCE OF OPERATION

NORMAL OPERATIONS:

OCCUPIED MODE: THE HEAT PUMP SHALL MAINTAIN
1. THERMOSTAT SHALL BE SET TO 68°F (ADJ) ROOM HEAT SET POINT, 72°F (ADJ) COOLING SET POINT, AND FAN TO ON.
2. OUTSIDE AIR DAMPER SHALL OPEN TO MINIMUM AIRFLOW RATE AND RETURN AIR DAMPER SHALL OPEN TO MAXIMUM AIRFLOW RATE (SET BY TAB), SUPPLY FAN SHALL RUN AND BE MODULATED BY EMS.

UNOCCUPIED MODE (NIGHT SETBACK), SCHEDULED FROM PELICAN EMS:
1. UNOCCUPIED SET-BACK ACCORDING TO CUSTOMER COMFORT AND ENERGY STANDARDS.
2. FAN SHALL BE IN STANDBY.
3. HEAT AND COOL SHALL BE OFF AND IN STANDBY.
4. ZONE SET POINT ADJUSTMENT. THE OCCUPANT SHALL BE ABLE TO ADJUST THE TEMPERATURE SET POINT AT EACH THERMOSTAT. USER DEFINABLE LIMITS SHALL BE IN PLACE. INITIAL LIMITS SHALL BE ±2°F.

MORNING START:
1. THE OCCUPIED SCHEDULE SHALL USE OPTIMUM START, ZONE THERMOSTATS SHALL BE SCHEDULED FOR THE TIME WHEN OCCUPANTS NORMALLY ARRIVE AND SHALL AUTO-CALCULATE WHEN TO START THE UNIT TO BRING ROOM TO OCCUPIED TEMPERATURE SET POINTS.
2. AT LEAST ONE HOUR PRIOR TO OCCUPANCY, THERMOSTAT SHALL CALL FOR FAN/VENTILATION. OUTSIDE DAMPER SHALL OPEN TO MINIMUM POSITION AND RETURN AIR DAMPER SHALL OPEN TO MAXIMUM POSITION (SET BY TAB CONTRACTOR) AND SUPPLY FAN SHALL MODULATE FOR VENTILATION.

HEATING MODE:
1. THERMOSTAT SHALL MONITOR THE ROOM TEMPERATURE. IF THE ROOM TEMPERATURE IS BELOW THE HEAT SET POINT, THERMOSTAT SHALL ENABLE HEAT STAGES TO PROPERLY HEAT THE SPACE. ONCE THE ROOM IS SATISFIED, HEAT SHALL BE DISABLED.
2. DURING HEATING CYCLE, SUPPLY FAN SHALL BE ACTIVE.

COOLING MODE:
1. THERMOSTAT SHALL MONITOR THE ROOM TEMPERATURE. IF THE ROOM TEMPERATURE IS ABOVE THE COOLING SET POINT, THERMOSTAT SHALL ENABLE COOLING STAGES TO PROPERLY COOL THE SPACE. ONCE THE ROOM IS SATISFIED, COOLING SHALL BE DISABLED.
2. DURING COOLING CYCLE, SUPPLY FAN SHALL BE ACTIVE.
3. ECONOMIZER: IF OUTSIDE AIR IS BELOW ROOM TEMPERATURE BY AT LEAST 2°F (ADJ) AND BELOW 72°F, ECONOMIZER CYCLE SHALL BE USED TO COOL ROOM. MECHANICAL COOLING AND ECONOMIZER SHALL BE ALLOWED TO OPERATE TOGETHER WITH A LOW LIMIT MIXED AIR TEMPERATURE OF 56°F (ADJ).

DEMAND VENTILATION:
1. IF THE ROOM CO2 LEVEL RISES ABOVE 800 PPM (ADJ) THE FAN SHALL BE FORCED ON, IF NOT ALREADY ENABLED, AND THE OUTSIDE AIR DAMPER SHALL INCREASE ITS VENTILATION POSITION RELATIVE TO THE CO2 RISE. THE OUTSIDE DAMPER SHALL NOT OPEN BEYOND THE MAXIMUM DAMPER POSITION (SET BY TAB.)

SAFETIES AND ALARMS:
1. FAULTS SHALL ALARM TO THE PELICAN EMS.

3 HEAT PUMP FAN COIL UNIT CONTROL SCHEMATIC (FC-80 THRU FC-86, EXCEPT FC-83A) (TYP OF 7)

SCOPE OF WORK:

(E) SITE PELICAN WIRELESS GATEWAY SHALL BE USED. CONTRACTOR SHALL PROVIDE ADDITIONAL REPEATERS IF NEEDED FOR CONNECTIVITY.

HVAC SYSTEMS WILL BE CONTROLLED AS DESCRIBED IN THE INDIVIDUAL CONTROL SEQUENCES. CONTRACTOR IS RESPONSIBLE FOR PROGRAMMING AND INITIAL SETUP.

CONTRACTOR SHALL PROVIDE NEW CONTROLLERS, THERMOSTATS, SENSORS AND WIRING FOR CONTROLS WORK. PROVIDE AS-BUILT WIRING DIAGRAM AND LABEL ALL INSTALLED WIRING AT EACH END OF CABLE.

CONTROL SYSTEM SHALL COMMUNICATE ACROSS A WIRELESS MESH NETWORK. CAMPUS GATEWAY SHALL BE WIRED TO AN ETHERNET PORT. ALL WIRELESS CONTROL DEVICES SHALL ACT AS WIRELESS REPEATERS. ADDITIONAL WIRELESS REPEATERS SHALL BE PROVIDED TO BRIDGE COMMUNICATIONS BETWEEN BUILDINGS.

GENERAL NOTES

1. THESE CONTROL DRAWINGS ARE DIAGRAMMATIC AND DO NOT DEPICT ALL CONTROL WIRES, RELAYS OR COMPONENTS OF A COMPLETE SYSTEM. IT IS THE RESPONSIBILITY OF THE TEMPERATURE CONTROLS CONTRACTOR TO PROVIDE A COMPLETE AND FUNCTIONAL CONTROL SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTROLS CONTRACTOR SHALL HAVE THE RESPONSIBILITY AS THE EXPERT IN THE PROPER APPLICATION OF CONTROL COMPONENTS AND DDC SYSTEMS. THE FINAL DESIGN, INSTALLATION, AND OPERATION OF THE CONTROL SYSTEM IS THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR. CONTROLS CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING AND DETERMINE THE REQUIRED NUMBER OF CONTROL PANELS AND OPTIMAL LOCATION FOR EACH.
3. THE CONTROLS CONTRACTOR SHALL MAKE ADDITIONS AND/OR MODIFICATIONS TO THE SEQUENCE OF OPERATION AS REQUIRED AT NO ADDITIONAL COST. CONTROLS CONTRACTOR SHALL WORK WITH THE MECHANICAL ENGINEER AND OBTAIN APPROVAL FOR ANY NECESSARY REVISIONS.
4. CONTROLS CONTRACTOR SHALL COORDINATE EXACT REQUIREMENT FOR CONTROL HARDWARE WITH ALL ASSOCIATED TRADES AND OWNER. REFER TO DRAWINGS FOR PRELIMINARY OPERATING SEQUENCES.
5. CONTROLS CONTRACTOR SHALL SUBMIT DETAILED SEQUENCES FOR ENGINEER'S REVIEW AND APPROVAL.
6. CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROLS, WIRING DIAGRAMS, "AS-BUILT" DRAWINGS, SYSTEM START-UP, AND PROGRAMMING.
7. CONTROLS CONTRACTOR TO PROVIDE THE GATEWAY, REPEATERS, UPS POWER SUPPLIES, TEMPERATURE CONTROL PANELS, AND ALL LOCAL CONTROL DEVICES FOR ALL EQUIPMENT AS REQUIRED.
8. CONTROLS CONTRACTOR TO PROVIDE ALL TEMPERATURE WIRING FOR ALL TEMPERATURE CONTROL WORK.
9. PROVIDE EMT CONDUIT AND JUNCTION BOXES FOR ALL TEMPERATURE CONTROL WORK RUNNING IN WALL SPACES.
10. PROVIDE RIGID CONDUIT FOR ALL EXTERIOR TEMPERATURE CONTROL WORK.
11. USE PLENUM RATED CABLE AND "J" HOOKS FOR ALL ABOVE CEILING AND FURRED SPACE TEMPERATURE CONTROL WORK.

GENERAL SYSTEM OPERATION AND MONITORING:
1. THE SYSTEM SHALL BE OPERATED AND MONITORED THROUGH SITE SPECIFIC WEB-BASED SYSTEM.
2. ALL SET POINTS AND ALARMS SHALL BE AVAILABLE TO THE FACILITIES STAFF FROM THE WEB-BASED SYSTEM.
3. THE ENTIRE SYSTEM INCLUDING THE SELF CONTAINED CONTROLS AT THE AIR HANDLING UNIT SHALL BE MONITORED, ADJUSTABLE, AND CONTROLLABLE FROM THE BUILDING AUTOMATION SYSTEM TO THE EXTENT PERMITTED BY THE EXISTING EQUIPMENT MANUFACTURER'S CONTROLLERS.
4. ALL CONTROL SYSTEMS SHALL BE TUNED AND ADJUSTED TO MEET THE DESIGN CONDITIONS AND FOR STABLE OPERATION WITHOUT HUNTING.
5. CONTRACTOR SHALL COORDINATE WITH DISTRICT REPRESENTATIVE FOR NETWORK SETTINGS, OCCUPANCY SCHEDULES, SET POINTS, SET BACKS, ETC.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
MEIN SERTUNG
No. M31059
EXP. JUNE 30, 2027
MECHANICAL
STATE OF CALIFORNIA

CEG JOB NO: 25001
CYPRESS Engineering Group
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Energy Modeling
Training & Technical Support
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com

MECHANICAL CONTROLS

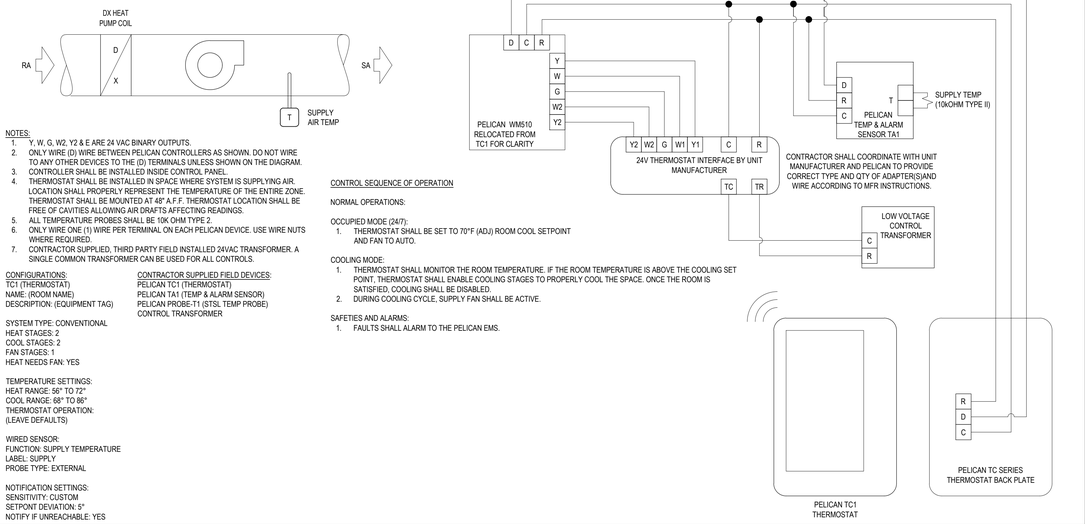
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: JL
CHECKED BY: CS
PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-12-26

M5.1

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NOTES:

1. Y, W, G, W2, Y2 & E ARE 24 VAC BINARY OUTPUTS.
2. ONLY WIRE (D) WIRE BETWEEN PELICAN CONTROLLERS AS SHOWN. DO NOT WIRE TO ANY OTHER DEVICES TO THE (D) TERMINALS UNLESS SHOWN ON THE DIAGRAM.
3. CONTROLLER SHALL BE INSTALLED INSIDE CONTROL PANEL.
4. THERMOSTAT SHALL BE INSTALLED IN SPACE WHERE SYSTEM IS SUPPLYING AIR. LOCATION SHALL PROPERLY REPRESENT THE TEMPERATURE OF THE ENTIRE ZONE. THERMOSTAT SHALL BE MOUNTED AT 48" A.F.F. THERMOSTAT LOCATION SHALL BE FREE OF CAVITIES ALLOWING AIR DRAFTS AFFECTING READINGS.
5. ALL TEMPERATURE PROBES SHALL BE 10K OHM TYPE 2.
6. ONLY WIRE ONE (1) WIRE PER TERMINAL ON EACH PELICAN DEVICE. USE WIRE NUTS WHERE REQUIRED.
7. CONTRACTOR SUPPLIED, THIRD PARTY FIELD INSTALLED 24VAC TRANSFORMER. A SINGLE COMMON TRANSFORMER CAN BE USED FOR ALL CONTROLS.

CONFIGURATIONS:
TC1 (THERMOSTAT)
NAME: (ROOM NAME)
DESCRIPTION: (EQUIPMENT TAG)

SYSTEM TYPE: CONVENTIONAL
HEAT STAGES: 2
COOL STAGES: 2
FAN STAGES: 1
HEAT NEEDS FAN: YES

TEMPERATURE SETTINGS:
HEAT RANGE: 56° TO 72°
COOL RANGE: 68° TO 86°
THERMOSTAT OPERATION:
(LEAVE DEFAULTS)

WIRED SENSOR:
FUNCTION: SUPPLY TEMPERATURE
LABEL: SUPPLY
PROBE TYPE: EXTERNAL

NOTIFICATION SETTINGS:
SENSITIVITY: CUSTOM
SETPONT DEVIATION: 5°
NOTIFY IF UNREACHABLE: YES

CONTRACTOR SUPPLIED FIELD DEVICES:
PELICAN TC1 (THERMOSTAT)
PELICAN TA1 (TEMP & ALARM SENSOR)
PELICAN PROBE-T1 (STSL TEMP PROBE)
CONTROL TRANSFORMER

CONTROL SEQUENCE OF OPERATION

NORMAL OPERATIONS:

OCCUPIED MODE (24/7):

1. THERMOSTAT SHALL BE SET TO 70°F (ADJ) ROOM COOL SETPOINT AND FAN TO AUTO.

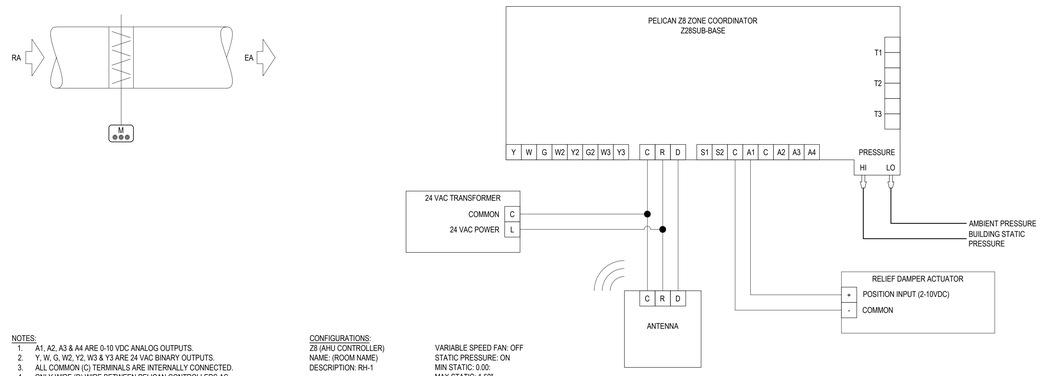
COOLING MODE:

1. THERMOSTAT SHALL MONITOR THE ROOM TEMPERATURE. IF THE ROOM TEMPERATURE IS ABOVE THE COOLING SET POINT, THERMOSTAT SHALL ENABLE COOLING STAGES TO PROPERLY COOL THE SPACE. ONCE THE ROOM IS SATISFIED, COOLING SHALL BE DISABLED.
2. DURING COOLING CYCLE, SUPPLY FAN SHALL BE ACTIVE.

SAFETIES AND ALARMS:

1. FAULTS SHALL ALARM TO THE PELICAN EMS.

2 DUCTLESS SPLIT SYSTEM HEAT PUMP CONTROL SCHEMATIC (FC-83A)



NOTES:

1. A1, A2, A3 & A4 ARE 0-10 VDC ANALOG OUTPUTS.
2. Y, W, G, W2, Y2, W3 & Y3 ARE 24 VAC BINARY OUTPUTS.
3. ALL COMMON (C) TERMINALS ARE INTERNALLY CONNECTED.
4. ONLY WIRE (D) WIRE BETWEEN PELICAN CONTROLLERS AS SHOWN. DO NOT WIRE TO ANY OTHER DEVICES TO THE (D) TERMINALS UNLESS SHOWN ON THE DIAGRAM.
5. (R1) ARE 24 VAC ISOLATION RELAYS. INSTALL NEW AS NEEDED UPON FIELD REVIEW AND TO MEET APPLICATION REQUIREMENTS.
6. CONTROLLER SHALL BE INSTALLED INSIDE CONTROL PANEL.
7. ANTENNA SHALL BE INSTALLED OUTSIDE CONTROLS PANEL AND OUTSIDE OF ALL METAL ENCLOSURES. ANTENNA SHALL BE AWAY FROM METAL OBJECTS THAT MAY BLOCK WIRELESS SIGNAL. ANTENNA MUST BE INSTALLED IN A LOCATION WHERE IT CAN CONNECT AND COMMUNICATE WITH THE PELICAN WIRELESS MESH NETWORK.
8. ALL TEMPERATURE PROBES SHALL BE 10K OHM TYPE 2.
9. ONLY WIRE ONE (1) WIRE PER TERMINAL ON EACH PELICAN DEVICE. USE WIRE NUTS WHERE REQUIRED.
10. A SINGLE COMMON TRANSFORMER MAY BE USED FOR ALL CONTROLS.

CONFIGURATIONS:
Z8 (AHU CONTROLLER)
NAME: (ROOM NAME)
DESCRIPTION: RH-1

SYSTEM TYPE: CONVENTIONAL
HEAT STAGES: 0
COOL STAGES: 0
FAN STAGES: 1
HEAT NEEDS FAN: NO

ADVANCED SETTINGS
BUILDING STATIC CONTROL: ON
MODULATE TYPE: DAMPER ACTUATOR
CONTROL VOLTAGES:
OPEN: 10.0 VDC
CLOSE: 2.0 VDC
MAX STATIC: 0.03"
START EXHAUST FIRST (G2): NO

VARIABLE SPEED FAN: OFF
STATIC PRESSURE: ON
MIN STATIC: 0.00:
MAX STATIC: 1.50"

ECONOMIZER: OFF

INPUT T1: OFF

INPUT T2: OFF

INPUT T3: OFF

CONTRACTOR SUPPLIED FIELD DEVICES:
PELICAN Z8 CONTROLLER

SEQUENCE OF OPERATIONS:

1. THE BUILDING PRESSURE SHALL BE MONITORED BY THE EMS.
2. IF THE ROOM PRESSURE EXCEEDS 0.03" W.C. (ADJ) THE RELIEF DAMPER SHALL BE MODULATED BY EMS TO MAINTAIN 0.03" W.C.

1 RELIEF AIR DAMPER (RH-80 THRU RH-86) (TYP OF 7)

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PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
MEIN SERTUNC
No. M31059
EXP. JUNE 30, 2027
MECHANICAL
STATE OF CALIFORNIA

CEG JOB NO: 25001
CYPRESS Engineering Group
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cypresseg.com

MECHANICAL CONTROLS

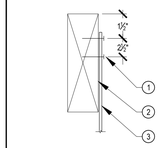
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY: JL
CHECKED BY: CS
PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-12-26

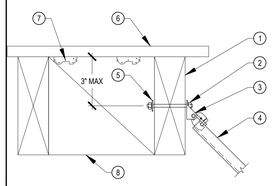
M5.2



DETAIL 13.1

DETAIL NOTES:

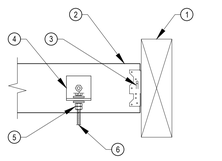
1. #10 x 2" WOOD SCREW, TYP OF 2.
2. WOOD FRAMING OR 4x6 BLOCKING.
3. 1" X 20GA. SHEET METAL STRAP. 100 LBS MAX. LOAD.



DETAIL 13.2

DETAIL NOTES:

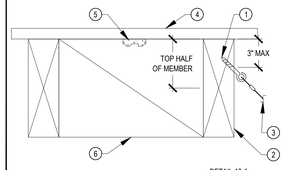
1. 4X MIN.
2. 1/2"Ø MACHINE BOLT THROUGH CENTERLINE OF MEMBER.
3. B-LINE FIGURE 980 UNIVERSAL.
4. P1000. MAX LENGTH: 48".
5. WASHER.
6. ROOF PLY.
7. 2-A35 W/ SIMPSON PH612I WOOD SCREWS.
8. 2X BLOCKING W/ HU EA END AND WITHIN 6" OF BRACE.



DETAIL 13.3

DETAIL NOTES:

1. WOOD FRAMING.
2. 4x6 BLOCKING.
3. SIMPSON A35 HANGERS (ICC-ES ESR-3096), EACH SIDE, EACH END.
4. L3X3X1/4 X 0'-3" ANGLE. ATTACH TO BLOCKING W/ 5/8"Ø MACHINE BOLT. BOLT THROUGH CENTER OF MEMBER. PROVIDE WASHER ON WOOD SIDE.
5. ATTACH ROD TO ANGLE WITH DOUBLE NUTS AND WASHER.
6. 3/8"Ø MIN. HANGER ROD. 400 LBS MAX. LOAD.

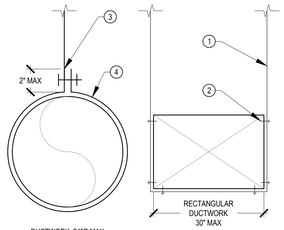


DETAIL 13.4

DETAIL NOTES:

1. 1/4" EYE SCREW WITH 1 1/2" MIN THREAD EMBEDMENT.
2. WOOD FRAMING.
3. GRIPPLE CABLE, 300 LBS MAX. LOAD.
4. ROOF PLY.
5. A35 W/ SIMPSON PH612I WOOD SCREWS.
6. 2X BLOCKING W/ HU EA END AND WITHIN 6" OF BRACE.

13 | TOP CONNECTIONS | N.T.S.



DUCTWORK 24"Ø MAX

ROUND DUCTWORK SHALL BE BRACED IN ACCORDANCE WITH 11/M6.1.

RECTANGULAR DUCTWORK SHALL BE BRACED IN ACCORDANCE WITH 12/M6.1.

DETAIL NOTES:

1. 1"x16 GA HANGER STRAP, LENGTH AS REQUIRED, TYP. 100 LBS MAX PER STRAP. SEE 13/M6.1 FOR TOP CONNECTION.
2. #10 SMS, TYP.
3. 1-1/2"x 16 GA HANGER STRAP W/ 3/8"Ø BOLT, NUT AND STAR WASHER, TYP. 100 LBS MAX PER STRAP. SEE 13/M6.1 FOR TOP CONNECTION.
4. 1" x 16 GA CONTINUOUS COLLAR DRAWN STRAP TIGHT AROUND DUCT.

NOTE:

1. HANGER SPACING SHALL BE PER TABLES BELOW AND WITHIN 2' FT. FROM ALL CHANGES IN DIRECTION.

RECTANGULAR DUCT HANGERS (MINIMUM SIZE)

MAXIMUM HALF OF DUCT PERIMETER	PAIR AT 10 FT SPACING		PAIR AT 8 FT SPACING		PAIR AT 5 FT SPACING		PAIR AT 4 FT SPACING	
	STRAP	WIRE / ROD	STRAP	WIRE / ROD	STRAP	WIRE / ROD	STRAP	WIRE / ROD
P/ 2 = 30"	1" x 22 GA	10 GA	1" x 22 GA	10 GA	1" x 22 GA	12 GA	1" x 22 GA	12 GA
P/ 2 = 72"	1" x 18 GA	3/8"	1" x 20 GA	1/4"	1" x 22 GA	1/4"	1" x 22 GA	1/4"
WHEN STRAPS ARE LAP JOINED, USE THESE MINIMUM FASTENERS			SINGLE HANGER MAXIMUM ALLOWABLE LOAD					

STRAP	FASTENER(S)	STRAP	MAX LOAD	WIRE OR ROD Ø	MAX LOAD
1" x 18 GA	(2) #10 OR (1) 1/4" Ø BOLT	1" x 22 GA	260 LBS	0.106"	80 LBS
1" x 20 GA		1" x 20 GA	320 LBS	0.135"	120 LBS
1" x 22 GA		1" x 18 GA	420 LBS	0.162"	160 LBS
1" x 16 GA	(2) 1/4" Ø BOLT	1" x 16 GA	700 LBS	1/4"Ø	270 LBS
1-1/2" x 16 GA	(2) 3/8"Ø BOLT	1-1/2" x 16 GA	1100 LBS	3/8"Ø	680 LBS
				1/2"Ø	1250 LBS
				5/8"Ø	2000 LBS
				3/4"Ø	3000 LBS

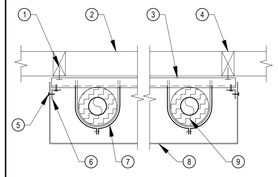
1. DIMENSIONS OTHER THAN GAGE ARE IN INCHES.
2. TABLES ALLOW FOR DUCT WEIGHT, 1 LB/SF INSULATION WEIGHT, AND NORMAL REINFORCEMENT AND TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS.
3. STRAPS ARE GALVANIZED STEEL; OTHER MATERIALS ARE UNCOATED STEEL.
4. ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 16 GA MAXIMUM, EXCEPT THAT WHEN MAXIMUM DUCT DIMENSION (W) IS OVER 60" THEN P/2 MAXIMUM IS 1.25 W.
5. 12, 10, OR 8 GA WIRE IS STEEL OF BLACK ANNEALED, BRIGHT BASIC, OR GALVANIZED TYPE.

ROUND DUCT HANGERS (MINIMUM SIZE)

ROUND DIAMETER	MAX SPACING	WIRE	ROD	STRAP
0" - 10"	12'	(1) 12 GA	1/4"	1" x 22 GA
11" - 18"	12'	(2) 12 GA	1/4"	1" x 22 GA
19" - 24"	12'	(2) 10 GA	1/4"	1" x 22 GA

1. STRAPS ARE GALVANIZED STEEL; RODS ARE UNCOATED OR GALVANIZED STEEL; WIRE IS BLACK ANNEALED, BRIGHT BASIC, OR GALVANIZED STEEL, ALL ARE ALTERNATIVES.
2. TABLES ALLOW FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS 1 LB/SF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS; SEE ALLOWABLE LOADS WITH RECTANGULAR DUCT HANGERS TABLE ABOVE. HANGER SPACING MAY BE ADJUSTED BY SPECIAL ANALYSIS.

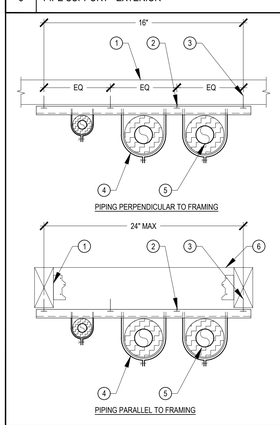
10 | VERTICAL DUCT SUPPORT | N.T.S.



DETAIL NOTES:

1. SCREW CHANNEL INTO WALL STUD W/ 2-3/8"x2" LAG SCREWS.
2. WALL.
3. UNISTRUT P1000 CHANNEL.
4. WALL STUD.
5. #10 x 1" SMS @ 24" O.C. EA SIDE (3" MIN. FROM TOP & BOTTOM OF COVER EA SIDE).
6. 1-1/2" x 1-1/2" x 2" LONG 16 GA. MIN. METAL ANGLE @ 24" O.C. EA SIDE, EA END (MIN. TOP & BOTTOM).
7. ZSI FOSTER CUSH-A-THERM PIPE CLAMP.
8. 8" DEEP MAX. CONTINUOUS STEEL COVER (16 GA. GALV.), PAINTED TO MATCH (E) WALL COLOR. FABRICATE CORNER PIECES TO FOLLOW PIPING TURNS.
9. PIPE(S). SEE PLANS FOR TYPES AND SIZES.

8 | PIPE SUPPORT - EXTERIOR | N.T.S.



PIPING PERPENDICULAR TO FRAMING

PIPING PARALLEL TO FRAMING

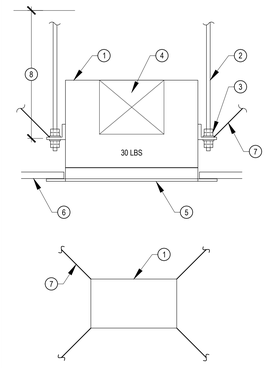
DETAIL NOTES:

1. FRAMING.
2. UNISTRUT P1000 CHANNEL.
3. SCREW CHANNEL INTO FRAMING W/ 4-#9 SCREWS, 3" MIN EMBEDMENT CENTERED ON JOIST.
4. ZSI FOSTER CUSH-A-THERM PIPE CLAMP.
5. PIPE(S). SEE PLANS FOR TYPES AND SIZES.
6. 4x BLOCKING AT P1000, W/ A31 EA END EA SIDE.

NOTES:

1. 6 FT MAX SPACING BETWEEN SUPPORT. MAX TOTAL LOAD SHALL NOT EXCEED 40 LBS PER SUPPORT.

9 | PIPE SUPPORT - INTERIOR | N.T.S.

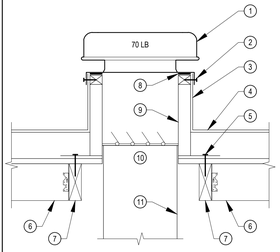


BRACING LOCATIONS - PLAN VIEW

DETAIL NOTES:

1. EXHAUST FAN. SEE PLANS FOR LOCATIONS.
2. 3/8"Ø THREADED ROD, (TYP. OF 4). SEE 13/M6.1 FOR TOP CONNECTION.
3. FACTORY-SUPPLIED BRACKETS. PROVIDE DOUBLE NUTS WITH LOCKWASHER AT TOP AND BOTTOM OF FLANGE WITH FACTORY ISOLATION KIT. REFER TO AND FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS AND PROVIDE ALL NECESSARY HARDWARE.
4. DUCTWORK. CONNECT TO FAN WITH FLEX CONNECTOR. SEE FLOOR PLANS FOR SIZES.
5. FACTORY GRILLE.
6. CEILING ASSEMBLY. SEE ARCHITECTURAL DRAWINGS.
7. 12 GAUGE BRACING WIRE AT EACH CORNER AT 45°, SEE 13/M6.1 FOR TOP CONNECTION.
8. MAX ROD LENGTH 12.7" WITHOUT STIFFENER. FOR LONGER LENGTHS, SEE 14/M6.1 FOR ROD STIFFENER.

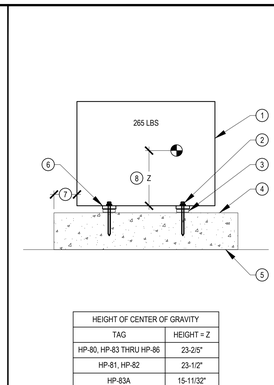
4 | CEILING EXHAUST FAN DETAIL | N.T.S.



DETAIL NOTES:

1. ROOF HOOD. SEE PLANS FOR LOCATIONS.
2. SECURE ROOF HOOD TO ROOF CURB WITH #12 WOOD SCREWS AT 12" ON CENTER. MIN. 2" PENETRATION INTO WOOD. MIN. (2) SCREWS PER SIDE.
3. SEE ARCHITECTURAL DRAWINGS FOR ROOFING AND FLASHING.
4. ROOF DECK.
5. 3/8"Ø LAG SCREW THRU CURB AND ROOF WITH 3" MINIMUM EMBEDMENT INTO BLOCKING.
6. ROOF FRAMING.
7. [SIZE] BLOCKING WITH A35 HANGER EACH SIDE EACH END.
8. SEALING GASKET.
9. ROOF CURB WITH WOOD NAILER.
10. MOTORIZED DAMPER.
11. DUCT.

5 | ROOF HOOD MOUNTING | N.T.S.

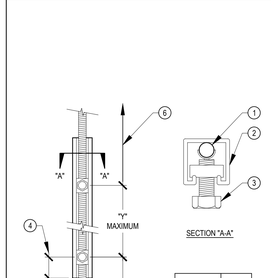


HEIGHT OF CENTER OF GRAVITY	
TAG	HEIGHT = Z
HP-80, HP-83 THRU HP-86	23-2/5"
HP-81, HP-82	23-1/2"
HP-83A	15-11/32"

DETAIL NOTES:

1. HEAT PUMP. SEE PLANS FOR LOCATIONS.
2. 3/8" Ø HILTI KWIK BOLT TZ2 WEDGE ANCHOR THRU FACTORY MOUNTING LEG AND NEOPRENE ISOLATOR PAD. MINIMUM 3" EMBEDMENT INTO CONCRETE HOUSEKEEPING PAD. TYP. OF (4).
3. 3/4" THICK NEOPRENE ISOLATOR PADS (TYP. OF 4).
4. CONCRETE HOUSEKEEPING PAD. SEE 10/A0.30.
5. GROUND.
6. FACTORY MOUNTING LEG.
7. MIN 6" ALL AROUND.
8. CENTER OF GRAVITY. SEE TABLE BELOW FOR HEIGHT.

1 | HEAT PUMP MOUNTING | N.T.S.



SECTION "A-A"

HANGER ROD	"Y"
3/8" Ø	12.7"
1/2" Ø	16.7"
5/8" Ø	21.1"
3/4" Ø	25.8"

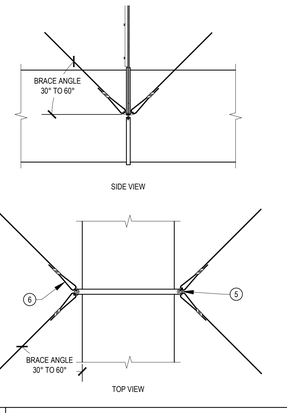
NOTE:

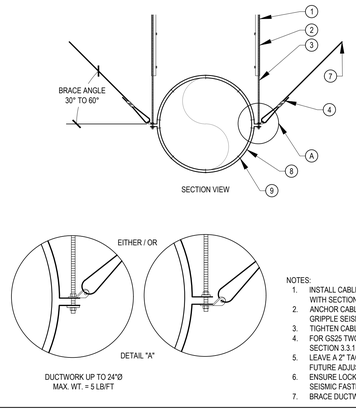
1. VERTICAL STIFFENER NOT REQUIRED IF TOTAL ROD LENGTH DOES NOT EXCEED THE "Y" DIMENSION.
2. MINIMUM OF STIFFENER ASSEMBLY CLAMPS AS REQUIRED BY MANUFACTURER.

DETAIL NOTES:

1. HANGER ROD.
2. UNISTRUT P1000 VERTICAL STIFFENER
3. UNISTRUT P2486 VERTICAL STIFFENER
4. 2" MAXIMUM FROM END, TYP.
5. TRAPEZE OR HANGER, TYP.
6. 6" MAXIMUM TO TOP CONNECTION.

14 | ROD STIFFENER | N.T.S.





DUCTWORK UP TO 24"Ø MAX. WT. = 5 LB/FT

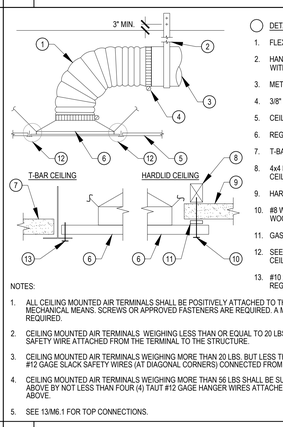
NOTES:

1. INSTALL CABLE ASSEMBLIES WITH 4-WAY BRACE ANGLES IN ACCORDANCE WITH SECTION 1.4.3 OF THE GRIPPLE SEISMIC INSTALLATION MANUAL.
2. ANCHOR CABLE ASSEMBLIES TO STRUCTURE PER SECTION 4 OF THE GRIPPLE SEISMIC INSTALLATION MANUAL, AND AS REQUIRED BY DESIGN.
3. TIGHTEN CABLES TO REMOVE SLACK.
4. FOR GS25 TWO BRACKETS MUST BE USED AT END FITTINGS TO CABLE (SEE SECTION 3.3.1 OF THE GRIPPLE SEISMIC INSTALLATION MANUAL).
5. LEAVE A 2" TAG EXTENDING OUT OF THE GRIPPLE SEISMIC FASTENER FOR FUTURE ADJUSTMENTS.
6. ENSURE LOCKING SCREWS ARE FULLY INSTALLED INTO THE GRIPPLE SEISMIC FASTENER ON COMPLETION OF INSTALLATION.
7. BRACE DUCTWORK MINIMUM EVERY 25'-0"

DETAIL NOTES:

1. SEE 13/M6.1 FOR ROD TOP CONNECTION TO BUILDING FRAMING.
2. ROD STIFFENER. SEE 14/M6.1.
3. 3/8"Ø HANGER ROD, ATTACHED TO 1"x12 GA STRAP W/ 3/8"Ø NUT TOP AND BOTTOM AND 1-5/8" x 1/4" THICK SQUARE WASHER.
4. GRIPPLE GS10, 5/64"Ø (7x7) CABLE WITH GRIPPLE GSE4 EYELET END.
5. GRIPPLE SEISMIC STANDARD (GSS4) OR RETROFIT BRACKET (GSR4) WITH BOLT HOLE TO MATCH THREADED ROD DIAMETER.
6. GRIPPLE LOOP THROUGH A GRIPPLE SEISMIC STANDARD (GSS4) OR RETROFIT BRACKET (GSRA.)
7. ATTACH BRACING WIRE TO STRUCTURE PER DETAIL 13/M6.1.
8. (2) 2-1/2" x 12 GAUGE SHEET METAL STRAPS
9. #10 x 1" SELF-TAPPING SMS, MAX 12" O.C. MIN. 10 SCREWS PER DUCT

11 | UP TO 24"Ø ROUND DUCT SUPPORT AND 4-WAY BRACING - FOR USE WHEN HANGER ROD LENGTH EXCEEDS 12" (IAPMO ER-577) | N.T.S.



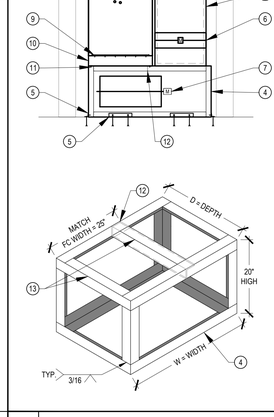
NOTES:

1. ALL CEILING MOUNTED AIR TERMINALS SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEM BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED.
2. CEILING MOUNTED AIR TERMINALS WEIGHING LESS THAN OR EQUAL TO 20 LBS. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL TO THE STRUCTURE.
3. CEILING MOUNTED AIR TERMINALS WEIGHING MORE THAN 20 LBS. BUT LESS THAN OR EQUAL TO 56 LBS SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL TO THE STRUCTURE ABOVE.
4. CEILING MOUNTED AIR TERMINALS WEIGHING MORE THAN 56 LBS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL TO THE STRUCTURE ABOVE.
5. SEE 13/M6.1 FOR TOP CONNECTIONS.

DETAIL NOTES:

1. FLEX DUCT @ CEILINGS (5'-0" MAX LENGTH).
2. HANGER STRAP. SECURE TO STRUCTURE ABOVE WITH (2) #10X2" WOOD SCREWS PER 13/M6.1.
3. METAL DUCT.
4. 3/8" BAND ON DUCT COLLARS, (TYP.).
5. CEILING.
6. REGISTER.
7. T-BAR CEILING.
8. 4x4 BLOCKING W/ A35 EA SIDE EA END ABOVE CEILING, TYP.
9. HARDLID CEILING.
10. #8 WOOD SCREW W/ 2" MIN PENETRATION INTO WOOD BLOCKING. (3) PER SIDE MINIMUM.
11. GASKET.
12. SEE ENLARGED VIEWS FOR T-BAR VS HARDLID CEILING.
13. #10 x 1-1/4" SMS ATTACHED TO T-BAR AND REGISTER FRAME. MIN. 4 ATTACHMENTS.

6 | REGISTER DETAIL - CEILING MOUNTED | N.T.S.



UNIT(S), FC #	MIXING PLENUM
80	48W X 22D X 20H
81, 82	48W X 22D X 20H
83 - 86	42W X 30D X 20H

DETAIL NOTES:

1. FAN COIL. SEE PLANS FOR LOCATION.
2. SUPPLY DUCT FROM FAN COIL. SEE M4.1 FOR SIZES.
3. RETURN DUCT DOWN TO MIXING PLENUM. SEE M4.1 FOR SIZES.
4. CONTINUOUS RETURN/OUTSIDE AIR MIXING PLENUM WITH 2"X2"X1/4" ANGLE IRON FRAME. ALL WELDED, MITERED CORNERS. PROVIDE WITH 1/2" ACOUSTIC LINING. COVER WITH 20 GAUGE SHEET METAL.
5. 2" x 2" x 1/4" THICK x 9" LONG GALV STEEL ANGLE, TOTAL OF (4). ATTACH ANGLE TO FLOOR WITH (2) 3/8"Ø KWIK BOLT TZ2 (ESR-4266) @ 6" O.C. CENTERED W/ 2-1/2" EMBEDMENT. ATTACH MIXING PLENUM TO STEEL ANGLE WITH (2) #10 SELF-TAPPING SELF-DRILLING SCREWS.
6. MOTORIZED RETURN AIR DAMPER ON RETURN DUCT.
7. 24 x 12 MOTORIZED OUTSIDE AIR DAMPER ON FRONT OF MIXING PLENUM. LOCATE TO ALIGN WITHIN DOOR OPENING.
8. FLEX CONNECTOR.
9. SECURE FAN COIL TO FILTER BOX WITH #14 x 3/4" SHEET METAL SCREWS AT 4" O.C. ALL AROUND.
10. 2" FILTER BOX WITH HINGED ACCESS PANEL AND TOOL-LESS ENTRY. SEAL ALL AROUND WITH 1/2" NEOPRENE GASKET. ENSURE REFRIGERANT AND CONDENSATE PIPES DO NOT BLOCK FILTER ACCESS. MAINTAIN MIN. 24" CLEAR IN FRONT OF FILTER BOX FOR FILTER ACCESS.
11. SECURE FILTER BOX TO MIXING PLENUM WITH (4) 1/2" A307 BOLTS, W/ (2) BOLTS ON CORNERS ON OPPOSITE SIDES W/ MIN. EDGE DISTANCE OF 2".
12. LOCATE INTERMEDIATE ANGLE IRON ON MIXING AIR PLENUM TO ALIGN WITH SIDE OF FAN COIL.
13. ALIGN WITH LEFT AND RIGHT SIDES OF FAN COIL.
14. ELECTRIC HEATER.

2 | UPFLOW FAN COIL MOUNTING | N.T.S.

DETAIL NOTES:

1. EXHAUST VENT CAP WITH RAIN HOOD. EXTEND MIN 8" ABOVE ROOF.
2. FLASHING. SEE ARCHITECTURAL DRAWINGS.
3. ROOF DECK.
4. EXHAUST DUCT. SEE PLANS FOR SIZE.

15 | EXHAUST DUCT THRU ROOF | N.T.S.

RECTANGULAR DUCTWORK GREATER THAN 30" MAX. WT. = 17 LB/FT

DETAIL NOTES:

1. SEE 13/M6.1 FOR ROD TOP CONNECTION TO BUILDING FRAMING.
2. ROD STIFFENER. SEE 14/M6.1.
3. 3/8"Ø HANGER ROD, ATTACHED TO P1100 STRUT W/ 3/8"Ø NUT TOP AND BOTTOM AND 1-5/8"x1/4" THICK SQUARE WASHER.
4. GRIPPLE GS10, 5/64"Ø (7x7) CABLE WITH GRIPPLE GSE4 EYELET END.
5. GRIPPLE SEISMIC STANDARD (GSS4) OR RETROFIT (GSR4)BRACKET WITH BOLT HOLE TO MATCH THREADED ROD DIAMETER.
6. GRIPPLE LOOP THROUGH A GRIPPLE SEISMIC STANDARD (GSS4) OR RETROFIT BRACKET (GSR4.)
7. ATTACH BRACING WIRE TO STRUCTURE PER DETAIL 13/M6.1.
8. UNISTRUT P1100
9. 1"x18 GAUGE STRAP OVER DUCT. SECURE TO STRUT CHANNEL w/ #10 x 1" SMS

NOTES:

1. TIGHTEN CABLES TO REMOVE SLACK.
2. LEAVE A 2" TAG EXTENDING OUT OF THE GRIPPLE SEISMIC FASTENER FOR FUTURE ADJUSTMENTS.
3. ENSURE LOCKING SCREWS ARE FULLY INSTALLED INTO THE GRIPPLE SEISMIC FASTENER ON COMPLETION OF INSTALLATION.
4. BRACE DUCTWORK MINIMUM EVERY 25'-0".

12 | RECTANGULAR DUCT SUPPORT AND 4-WAY SEISMIC BRACING - FOR USE WHEN HANGER ROD LENGTH EXCEEDS 12" OR WHEN WEIGHT PER HANGER ROD EXCEEDS 50 LBS (IAPMO ER-577) | N.T.S.

DETAIL NOTES:

1. WALL.
2. 2x BLOCKING ALL AROUND.
3. REGISTER.
4. #8 WOOD SCREWS, 2" MIN. PENETRATION INTO WOOD. TYP. OF 4 SCREWS.
5. SHEET METAL BOX WITH 1/2" ACOUSTIC LINING.
6. PRICE RAS-LP SILENCER.

7 | REGISTER DETAIL - SIDEWALL MOUNTED | N.T.S.

DETAIL NOTES:

1. WALL.
2. MAINTAIN FACTORY REQUIRED CLEARANCES ALL AROUND UNIT.
3. INSTALL THE UNIT TO MOUNTING PLATE PER MANUFACTURER INSTALLATION AND OPERATION MANUAL.
4. INDOOR UNIT. SEE PLANS FOR LOCATIONS.
5. MANUFACTURER'S MOUNTING PLATE.
6. SECURE MOUNTING PLATE TO WALL WITH 3/8" Ø LAG SCREWS, 3" MIN EMBEDMENT. TYP. OF 4 LOCATIONS.
7. 6X6 PT DF NO. 2 BLKG W/ A34 CLIP T&B EA SIDE TYP.

3 | WALL MOUNTED FAN COIL | N.T.S.

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
MEHRAN SERTIP
No. M31059
EXP. JUNE 30, 2027
MECHANICAL
STATE OF CALIFORNIA

CEG JOB NO: 25001

CYPRESS Engineering Group
HVAC, Plumbing, Fire Protection
Building Commissioning
Industrial Refrigeration
Energy Consulting
Training & Technical Support
831.218.1802
8 Harris Court, Suite A8
Monterey, CA 93940
cypresseg.com

DETAILS - MECHANICAL

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY: JL
CHECKED BY: CS
PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-12-26

M6.1

DSA GENERAL NOTES

1. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
2. THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.
3. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2022.
4. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.
5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

ABBREVIATIONS

&	AND
°F	DEGREES FAHRENHEIT
AC	AIR CONDITIONER
AD	ACCESS DOOR
AN	PIPE ANCHOR
AP	ACCESS PANEL
AFF	ABOVE FINISH FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AL	ACOUSTICALLY LINED
AMP	AMPERE
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AW	ACID WASTE
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CA	COMBUSTION AIR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
℄	CENTER LINE
CLG	CEILING
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUED, CONTINUATION
COOL	COOLING
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB
DCV	DOUBLE CHECK VALVE
DF	DRINKING FOUNTAIN
D/L	DOOR LOUVER
DN	DOWN
DWGS	DRAWINGS
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
ELEC	ELECTRICAL
ELEV	ELEVATION
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXT	EXTERIOR
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FEET	PER MINUTE FPM
FS	FLOOR SINK
FT	FEET
FT HD	FEET HEAD
FTR	FLUE THRU ROOF
G	GAS - LOW PRESSURE
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GW	GREASE WASTE PIPING
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCH
INV	INVERT
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
LWB	LEAVING WET BULB
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MCP	MECHANICAL CONTROL PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MG	GAS - MEDIUM PRESSURE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PD	PRESSURE DROP
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
P/T	PRESSURE/TEMPERATURE
QTY	QUANTITY
RA	RETURN AIR
RM	ROOM
RP	REDUCED PRESSURE
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
SA	SUPPLY AIR
SC	SENSIBLE COOLING
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SOV	SHUT-OFF VALVE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
STRUCT	STRUCTURAL
TC	TOTAL COOLING
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TH	THERMOMETER
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANES
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLT
VB	VALVE IN VALVE BOX
VTR	VENT THROUGH ROOF
W/	WITH
WB	WET BULB
WC	WATER COLUMN
WH	WATER HEATER
WT	WEIGHT

LIST OF GOVERNING CODES

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
2022 CALIFORNIA ELECTRICAL CODE, 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 (CEC), 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, 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.

ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.
1. ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.
2. INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
3. TESTS AND TESTING LABORATORY PER SECTION 4-335.
4. SPECIAL INSPECTION PER SECTION 4-333(c).
5. CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343(c).
6. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4-333(a) AND 4-341.
7. GOVERNING CODES: TITLE 24.
8. A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECTION 4-331.
10. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-334.

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 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 HAVING 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.

SYMBOL LEGEND

SYMBOL	ABBRV.	IDENTIFICATION
	CW	COLD WATER (DOMESTIC)
	HW	HOT WATER
	HWR	HOT WATER RETURN
	V	VENT
TP	TP	TRAP PRIMER LINE
W	S OR W	SOIL OR WASTE ABOVE GRADE
W	S OR W	SOIL OR WASTE BELOW GRADE
AW	AW	ACID WASTE
GW	GW	GREASE WASTE
RWL	RWL	RAIN WATER LEADER
OD	OD	OVERFLOW DRAIN
CD	CD	CONDENSATE DRAIN
E		CAP
CONT	CONT	CONTINUATION
		BALL VALVE
OR		VALVE
CKV	CKV	CHECK VALVE
T&PRV	T&PRV	TEMP. & PRESS. RELIEF VALVE
GPR	GPR	GAS PRESSURE REGULATOR
		CIRCULATION PUMP (DOMESTIC)
WHA	WHA	WATER HAMMER ARRESTOR
TP	TP	TRAP PRIMER ACCESS PANEL
GCO/FCO	GCO/FCO	GRADE CLEAN-OUT/FLOOR CLEAN-OUT
WCO	WCO	WALL CLEAN-OUT
HB	HB	HOSE BIBB
		UNION
AN	AN	PIPE ANCHOR
		FLEXIBLE CONNECTOR

SYMBOL	ABBRV.	IDENTIFICATION
	P.O.C.	POINT OF CONNECTION
		REMOVE EXISTING
		LINE BREAK
		TEE DOWN
		90 DOWN
		RISER
		CONCENTRIC & ECCENTRIC REDUCERS
	AD, AP	ACCESS DOOR, ACCESS PANEL
	MAV	MANUAL AIR VENT
T	T	THERMOSTAT MOUNTED @ 48" AFF. MAX.
CO2	CO2	CARBON DIOXIDE (CO2) SENSOR
$		SWITCH
	AD	AREA DRAIN
	FD	FLOOR DRAIN
	FS	FLOOR SINK
OR	VB	VALVE IN BOX
	TH	THERMOMETER
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
FC		EQUIPMENT DESIGNATION
A-1		TAG NUMBER
MP2.1		SECTION 1 / SHEET MP2.1

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 SECTIONS 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 AND SHALL BE IN ACCORDANCE WITH DSA IR 16-13. EACH SYSTEM SHALL BE DESIGNED BY A STRUCTURAL ENGINEER AND COORDINATED WITH THE STRUCTURAL BUILDING DESIGN.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☒ E☐ - OPTION 1: IR 16-13 SECTION 2.1: PROJECT SPECIFIC DESIGN.
SHEET NUMBERS: P6.1

MP☐ MD☐ PP☐ E☐ - OPTION 2: IR 16-13 SECTION 2.2: DESIGN BASED ON OSHPD OPM, PART OF PROJECT SUBMITTAL.
OPM NUMBERS:
SHEET NUMBERS:

MP☐ MD☐ PP☐ E☐ - OPTION 3: IR 16-13 SECTION 2.2.6: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

PLUMBING NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING: LOCAL, STATE, NATIONAL, NFPA AGENCIES. INFORMATION INCLUDED WITHIN THESE DOCUMENTS SHALL NOT BE CONSTRUED AS TO BE IN CONFLICT WITH APPLICABLE CODES. WHERE A CONFLICT OCCURS, THE CONTRACTOR SHALL PERFORM THE WORK TO THE MORE RESTRICTING REQUIREMENT.
2. ALL EQUIPMENT FIXTURES AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. ALL MECHANICAL UNITS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE "M" SHEETS.
4. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF ALL BUILDING PENETRATIONS AND FRAMING REQUIREMENTS. THE CONTRACTOR SHALL VERIFY ALL PROPOSED BUILDING PENETRATIONS AND METHODS OF FLASHING AND WEATHERPROOFING WITH THE ARCHITECT BEFORE BEGINNING ANY INSTALLATION.
5. ALL PENETRATIONS THROUGH THE EXTERIOR BUILDING SURFACE SHALL BE PROPERLY SEALED AND CAULKED WEATHERTIGHT.
6. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL OF THE ENFORCING AGENCY.
7. FOR PIPES PENETRATING WALL, PROVIDE ESCUTCHEON PLATES AROUND PIPES AT ALL EXPOSED LOCATIONS.
8. PIPING SHALL NOT PENETRATE INTO, OVER, OR THROUGH ELECTRICAL ROOMS UNLESS IT SERVES THE SPECIFIC ROOM. WHEN SERVICING ELECTRICAL ROOM, COMPLY WITH NATIONAL ELECTRICAL CODE REQUIREMENT.
9. INSULATE HOT WATER PIPING SUPPLY AND RETURN. INSULATE COLD WATER PIPING LOCATED EXPOSED IN TEMPERED ROOMS AND IN CEILING SPACE.
10. ALL RISERS AND PIPE DROPS SHALL BE IN WALL CAVITY OR PLUMBING CHASE SPARE. UNLESS OTHERWISE NOTED.
11. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF ALL PLUMBING FIXTURES.
12. COORDINATE AND FIELD VERIFY EXACT LOCATION, SIZE, POINT OF CONNECTION, AND ELEVATIONS OF ALL PIPING CONNECTIONS, OTHER FIELD WORK, ETC., PRIOR TO TRENCHING OR INSTALLING ANY NEW WORK.
13. COORDINATE AND VERIFY WITH STRUCTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL GRADE BEAMS AND FOOTINGS.
14. COORDINATE AND VERIFY ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH BEAMS, COLUMNS, SLABS AND FOOTINGS WITH STRUCTURAL ENGINEER AND ARCHITECT PRIOR TO STARTING INSTALLATION OF THE PLUMBING SYSTEM.
15. ALL HORIZONTAL WASTE LINES SHALL BE RUN AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED ON PLAN.
16. ALL VENTS THROUGH ROOF SHALL BE 10'-0" MINIMUM AWAY FROM ANY FRESH AIR INTAKE OR WINDOW. COORDINATE WITH MECHANICAL CONTRACTOR.
17. THE LOCATION AND ELEVATION OF ALL PLUMBING PIPING SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.
18. PROVIDE GAS SHUTOFF VALVE, UNION, FLEX CONNECTION, AND DIRT LEG AT EACH GAS CONNECTION TO MECHANICAL EQUIPMENT.
19. ALL VALVES AND COCKS SHALL BE LOCATED TO BE READILY ACCESSIBLE. WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS, PARTITIONS OR CEILINGS, AN ACCESS PANEL SHALL BE INSTALLED. COORDINATE ACCESS PANEL LOCATION WITH THE ARCHITECT, BEFORE BEGINNING INSTALLATION.
20. PROVIDE CLEANOUT AS REQUIRED BY PLUMBING CODE, WHETHER SHOWN ON THE DRAWINGS OR NOT.
21. ALL EQUIPMENT SHALL BE LISTED WITH AN APPROVED TESTING AGENCY.
22. ALL WORK IN THE PUBLIC RIGHT OF WAY SHALL BE COMPLETED IN ACCORDANCE WITH CITY STANDARDS & SHALL OBTAIN THE APPROVAL PERMITS FROM THE PUBLIC WORKS DEPARTMENT.
23. CAL GREEN: PLUMBING AND PIPING DESIGN SHALL BE IN ACCORDANCE WITH CAL GREEN STANDARDS AS LISTED BELOW.
    - 5.303.1 BUILDING IS A SINGLE TENANT WITH ONE WATER METER. PROJECT IS IN COMPLIANCE
    - 5.303.2 WATER SAVINGS.
      TOILETS: MAX 1.28 GPF
      URINALS: MAX 0.125 GPF
      LAVATORIES: MAX 0.5 GPM
      METERING FAUCETS: MAX 0.2 GALLONS PER CYCLE. ADJUST TO OPERATE FOR MINIMUM OF 10 SECONDS, AND MAXIMUM OF 20 SECONDS.
    - 5.303.6 PROVIDE PROOF THAT SPECIFIED PLUMBING FIXTURES MEET ASME, US EPA STANDARDS PER TABLE 5.303.6 IN CAL GREEN CODES.

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE INSTALLATION. ALL METHODS AND REQUIREMENTS FOR INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE PLANS PRIOR TO SUBMITTING BID. SUBMITTAL OF THE CONTRACTOR'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED.
2. CONTRACTOR SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL SYSTEMS.
3. THE DRAWINGS INCLUDED IN THIS SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORD'S DESIGN INTENT FOR ALL EQUIPMENT AND RELATED PIPING ETC. INDIVIDUAL POWER NEEDS, CONTROLS AND OTHER CONNECTIONS SHALL BE COORDINATED AND COMPLETED/ PROVIDED FOR COMPLETE SYSTEM OPERATION BY CONTRACTOR.
4. EQUIPMENT/FIXTURE LOCATIONS AND PIPE ROUTING ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE HEIGHTS. CONTRACTOR SHALL INSTALL ALL EQUIPMENT/FIXTURES AND ROUTE PIPING IN LOCATIONS WHICH MEET CODE REQUIREMENTS FOR ACCESSIBILITY/MOUNTING AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.
5. (E) PIPING AND ITEMS TO BE REMOVED ARE SHOWN HATCHED. SEE LEGEND. COORDINATE CLOSELY WITH (N) PIPING AND P.O.C.'S SHOWN. ALL OTHER (E) PIPING, ETC. TO REMAIN.
6. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS, EVERYTHING IS NEW.
7. ALL EQUIPMENT, EQUIPMENT CONNECTIONS, PIPING, MOUNTING LOCATIONS ETC. ARE TO BE VERIFIED WITH OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO BEGINNING OF THE ROUGH-IN.
8. ALL WORK SHALL BE PERFORMED TO STATE, LOCAL, NATIONAL AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.
9. ALL EQUIPMENT SHALL BE NEW AND CLEARLY LABELED AND IDENTIFIED. LABELS SHALL NOT BE COVERED BY OTHER CONSTRUCTION ELEMENTS.
10. UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS, CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT AND WORK FOR A PERIOD OF ONE YEAR.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE WALL OR STRUCTURE.
12. CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL INCLUDE THE PRICE OF INSTALLING ALL CONNECTIONS AS REQUIRED IN THEIR BIDS.
13. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ENGINEER OF RECORD . ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.
14. THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/APROVAL AND CONTRACTOR BIDDING PURPOSES.
15. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT DRAWINGS.
16. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO BUILDING SERVICES(S) (ELECTRICAL/ HVAC/ PLUMBING ETC.) MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTIME SHALL NOT OCCUR DURING SCHOOL OPERATION HOURS.
17. IN INSTANCES WHERE A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS AND INSTALLATION MANUALS FOR THE PROJECT EXISTS, THE CONTRACTOR SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.
18. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.
19. ALL PIPING, CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. WHERE WORK HAS TO BE INSTALLED IN EXPOSED LOCATIONS, IT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES OR PER ARCHITECT'S DIRECTION.
20. CONTRACTOR SHALL PREPARE AND SUBMIT THE CALIFORNIA ENERGY COMMISSION TITLE 24 CERTIFICATE OF ACCEPTANCE FORMS RELATED TO INSTALLED EQUIPMENT AND SYSTEMS.
21. SAFETY: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
22. CONTRACTOR'S EQUIPMENT: COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. COORDINATE WITH OWNER FOR LOCATION AND PROCEDURES.
23. ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.
24. CONSTRUCTION SCHEDULING: CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.
25. TITLE 24 COMPLIANCE: THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (2022 CBC). SHOULD ANY CONDITIONS BE DISCOVERED NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK DOES NOT COMPLY WITH 2022 CBC, A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.
26. THESE DOCUMENTS MAKE NO REPRESENTATION AS TO THE EXISTENCE OR LOCATION OF EXISTING HAZARDOUS MATERIALS (INCLUDING ASBESTOS CONTAINING MATERIALS) AT THE SITE. SHOULD CONTRACTOR DISCOVER SUSPECTED HAZARDOUS MATERIALS AT THE SITE HE SHALL IMMEDIATELY BRING IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO STARTING OR CONTINUING WORK INVOLVING THOSE MATERIALS.

DRAWING INDEX

P0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - PLUMBING
P0.2 SCHEDULES - PLUMBING
P2.1 BUILDINGS 060A & 060B - NEW FLOOR PLANS - WATER PIPING - PLUMBING
P2.2 BUILDINGS 060A & 060B - NEW FLOOR PLANS - WASTE, VENT, & CONDENSATE DRAIN PIPING - PLUMBING
P6.1 DETAILS - PLUMBING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
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PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
MEIN SERTIFIED
No. M31059
EXP. JUNE 30, 2027
MECHANICAL
STATE OF CALIFORNIA

CEG JOB NO: 25001

CYPRESS Engineering Group
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Building Commissioning
Industrial Refrigeration
Energy Modeling
Training & Technical Support
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SYMBOL LEGENDS, ABBREVIATIONS, NOTES - PLUMBING

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

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PLUMBING FIXTURES SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.	ROUGH-IN CONNECTIONS (IN.)					FLUSH VALVE	SEAT	FAUCET	CARRIER	DRAIN ASSEMBLY	P-TRAP	STOP / SUPPLY	INSULATION KIT	ADA (Y/N)	NOTES
				TRAP	W	V	CW	HW										
WC-1	WALL HUNG WATER CLOSET	KOHLER	KINGSTON ULTRA K-84325-SS	INT	4"	2"	1"	—	SLOAN 111-1.28	KOHLER K-4670-SA	—	JAY R SMITH 0544FD	—	—	—	—	Y	1
WC-2	FLOOR MOUNTED WATER CLOSET	KOHLER	HIGHCLIFF ULTRA K-96057-SS	INT	4"	2"	1"	—	SLOAN 111-1.28	KOHLER K-4670-SA	—	—	—	—	—	—	Y	
WC-3	FLOOR MOUNTED WATER CLOSET	KOHLER	JUVENILE ULTRA K-96059-SS	INT	4"	2"	1"	—	SLOAN 111-1.28	KOHLER K-4670-SA	—	—	—	—	—	—	Y	
L-1	WALL HUNG LAVATORY	KOHLER	KINGSTON K-2005	1-1/2"	2"	1-1/2"	1/2"	1/2"	—	—	CHICAGO FAUCETS 802-VE2805-317ABCP	JAY R SMITH 0722	MCGUIRE 155WC	DEARBORN BRASS 710-1	BRASSCRAFT OR3712AZX C	TRUEBRO LAV GUARD 2	Y	1
L-2	WALL HUNG LAVATORY	KOHLER	KINGSTON K-2005	1-1/2"	2"	1-1/2"	1/2"	1/2"	—	—	CHICAGO FAUCETS 802-VE2805-317ABCP	JAY R SMITH 0722	MCGUIRE 155WC	DEARBORN BRASS 710-1	BRASSCRAFT OR3712AZX C	TRUEBRO LAV GUARD 2	Y	2
L-3	WALL HUNG LAVATORY	KOHLER	KINGSTON K-2005	1-1/2"	2"	1-1/2"	1/2"	1/2"	—	—	CHICAGO FAUCETS 802-VE2805-317ABCP	JAY R SMITH 0722	MCGUIRE 155WC	DEARBORN BRASS 710-1	BRASSCRAFT OR3712AZX C	TRUEBRO LAV GUARD 2	Y	8
CS-1	COUNTER MOUNT SINK	JUST MFG	CRAADA1931A55-J	1-1/2"	2"	1-1/2"	1/2"	—	—	—	CHICAGO FAUCETS 350-LHE35ABCP	—	MCGUIRE 1152 WC	DEARBORN BRASS 710-1	BRASSCRAFT OR3712AZX C	TRUEBRO LAV GUARD 2	Y	3, 4
DF-1	DRINKING FOUNTAIN	MOST DEPENDABLE FOUNTAINS	485 EZWM	1-1/2"	2"	1-1/2"	1/2"	—	—	—	—	INCLUDED	INTEGRAL	DEARBORN BRASS 710-1	—	—	Y	5
HB-1	HOSE BIBB	ACORN	8121CP-LF	—	—	—	3/4"	—	—	—	—	—	—	—	—	—	—	7
FD-1	FLOOR DRAIN	ZURN	Z415B	2"	2"	2"	—	—	—	—	—	—	—	—	—	—	—	6

1. SEE ARCHITECTURAL DRAWINGS FOR ADULT MOUNTING HEIGHT.
2. SEE ARCHITECTURAL DRAWINGS FOR STUDENT MOUNTING HEIGHT.
3. PROVIDE WITH HOLE CONFIGURATION LM - (1) FAUCET HOLE ON LEFT AND (1) SLOTTED HOLE FOR BUBBLER ON RIGHT.
4. PROVIDE WITH HAWS 5054LF BUBBLER.
5. COLOR TO BE SELECTED BY ARCHITECT.
6. NO HUB OUTLET WITH ROUND STRAINER HEAD AND 1/2" TRAP PRIMER CONNECTION.
7. PROVIDE WITH VACUUM BREAKER AND REMOVABLE KEY HANDLE.
8. SEE ARCHITECTURAL DRAWINGS FOR KINDERGARTEN MOUNTING HEIGHT.

WATER HEATERS SCHEDULE

TAG	TYPE	MANUFACTURER	MODEL NO.	LOCATION	ELECTRICAL		WEIGHT LBS	NOTES
					KW	V / PH		
WH-81B	INSTANTENEOUS ELECTRIC	CHRONOMITE	CM-20L/208	HALLWAY 81E	4.16	208 / 1	5	1, 2, 3
WH-82B	INSTANTENEOUS ELECTRIC	CHRONOMITE	CM-20L/208	HALLWAY 81E	4.16	208 / 1	5	1, 2, 3
WH-83B	INSTANTENEOUS ELECTRIC	CHRONOMITE	CM-20L/208	STAFF UNISEX 83B	4.16	208 / 1	5	1, 2, 3
WH-83C	INSTANTENEOUS ELECTRIC	CHRONOMITE	CM-20L/208	STAFF UNISEX 83C	4.16	208 / 1	5	1, 2, 3

1. PROVIDE WITH ALL FAUCET CONTROLS, WATER CONNECTIONS, AND FITTINGS. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. PROVIDE WITH CHRONOMITE INVIZIBLE WALL SLEEVE WITH PRE-WIRED ELECTRICAL DISCONNECT, MODEL Z-S1616D.
3. PROVIDE WITH FIELD ADJUSTABLE TEMPERATURE. SET TO 110°F.

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No. M31059
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SCHEDULES - PLUMBING

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

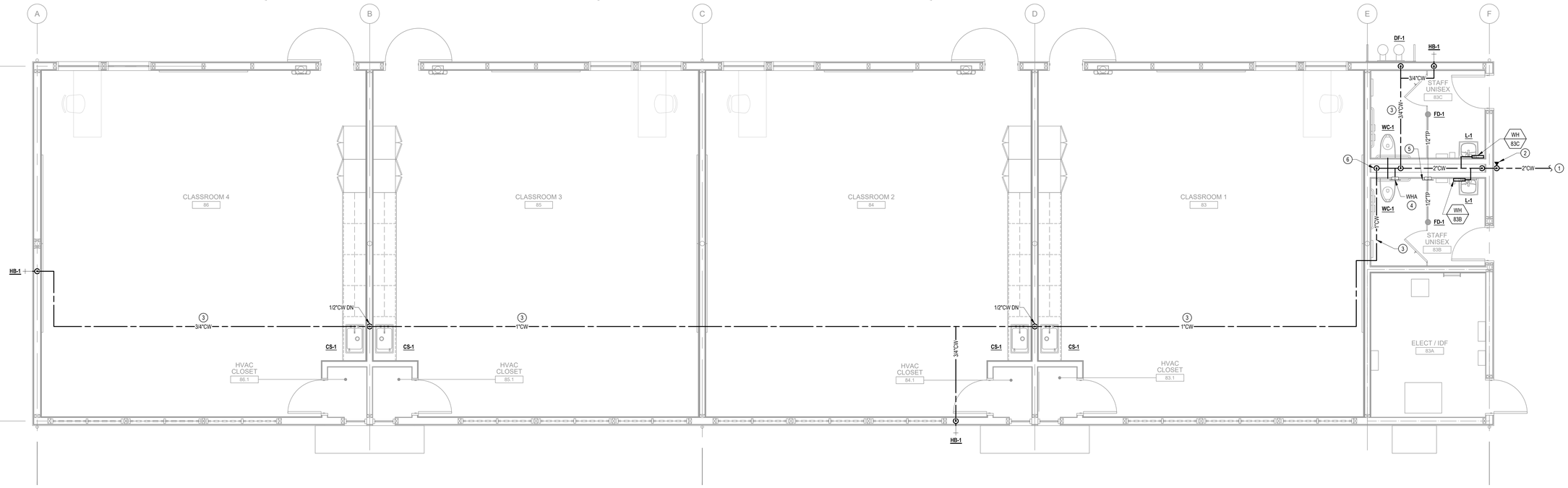
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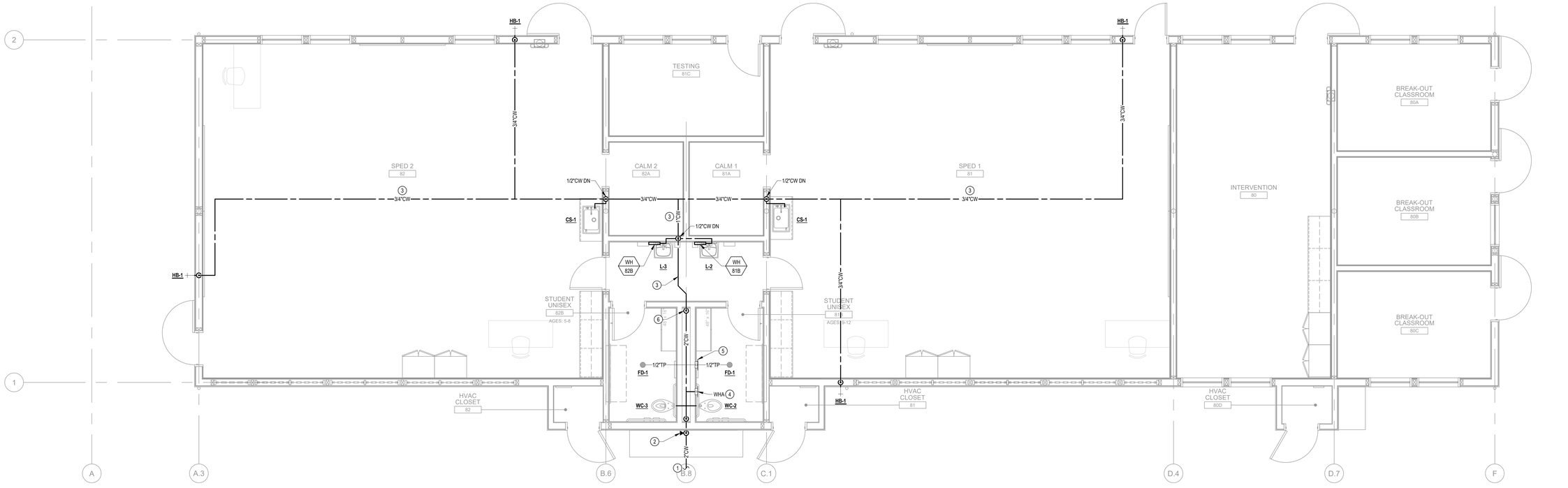
P0.2

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2 / P2.1 CLASSROOM BLDG 060B - NEW FLOOR PLAN - WATER PIPING

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



1 / P2.1 CLASSROOM BLDG 060A - NEW FLOOR PLAN - WATER PIPING

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

CONSTRUCTION NOTES

1. SEE CIVIL DRAWINGS FOR CONTINUATION.
2. COLD WATER SHUT-OFF VALVE ON RISER. SEE 5/P6.1. INSTALL SHUT-OFF VALVE IN CAGE. SEE ARCHITECTURAL DRAWINGS.
3. PIPING ABOVE CEILING.
4. WATER HAMMER ARRESTOR IN ACCESS PANEL. SEE 11/P6.1.
5. TRAP PRIMER IN ACCESS PANEL. SEE 12/P6.1.
6. RISE COLD WATER PIPE TO ABOVE CEILING.

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES, AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
2. COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK, PIPING, AND ALL MECHANICAL AND PLUMBING EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
3. SEE ARCHITECT'S DRAWINGS FOR PATCHING AND REPAIR OF ROOF, WALL, AND FLOOR PENETRATIONS.
4. INFORMATION SHOWN IS BASED ON AVAILABLE AS-BUILTS AND THE LOCATION OF ALL EQUIPMENT, DUCTS, PENETRATIONS, PIPING, AND OTHER PROJECTIONS SHOWN ON THE PLANS IS APPROXIMATE. NOT ALL EXISTING ITEMS ARE IDENTIFIED OR SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS, INCLUDING ALL RELEVANT DIMENSIONS, EQUIPMENT COUNTS, AND LOCATIONS PRIOR TO SUBMITTING A BID.
5. SEE PLANS AND SPECIFICATIONS FOR ALL OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK THAT MAY NOT BE SHOWN HERE. COORDINATE WITH GENERAL CONTRACTOR TO CONFIRM ENTIRE SCOPE OF WORK HAS BEEN INCLUDED.
6. SEE DETAIL 6/P6.1 FOR TRENCHING.
7. SEE DETAIL 7/P6.1 FOR EXTERIOR PIPE SUPPORTS AND DETAIL 8/P6.1 FOR INTERIOR PIPE SUPPORTS.

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CEG JOB NO: 25001

BUILDINGS 060A & 060B - NEW FLOOR PLANS - WATER PIPING - PLUMBING

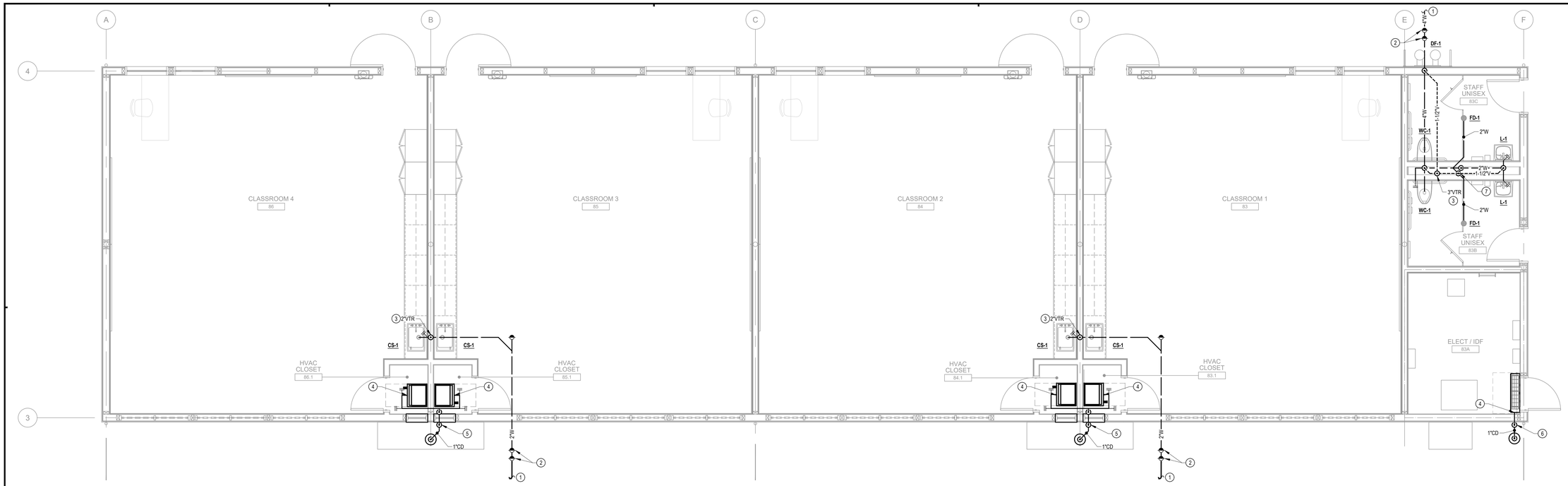
NEW CLASSROOMS AT
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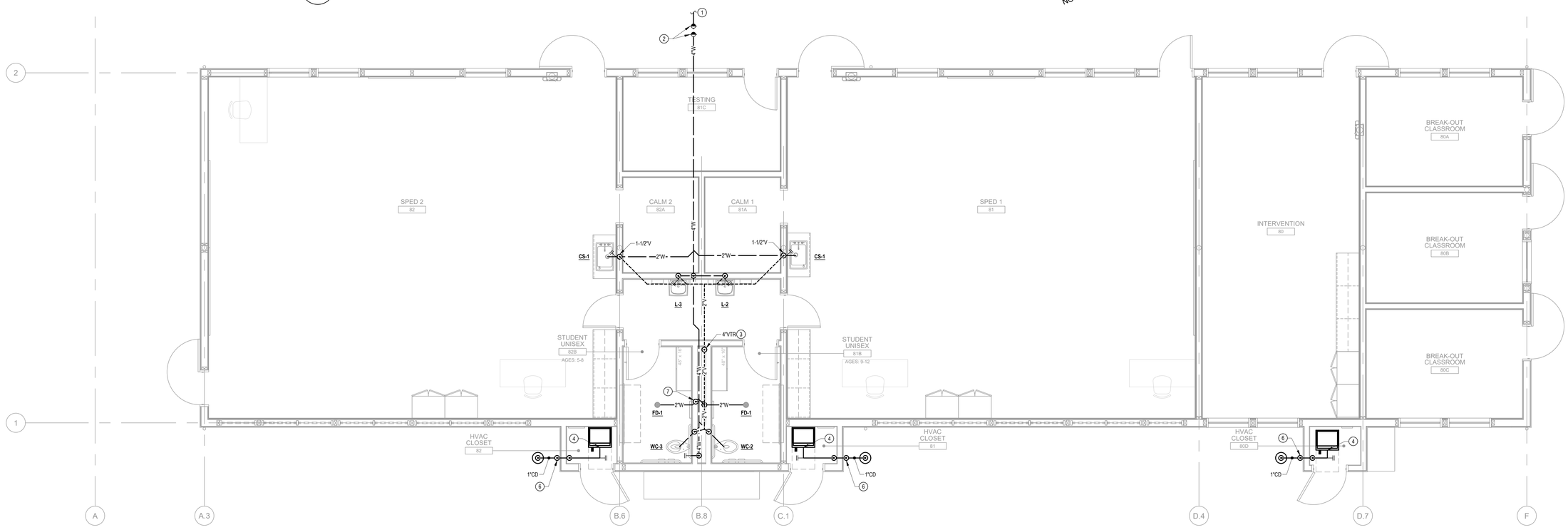
P2.1



2 P2.2 CLASSROOM BLDG 060B - NEW FLOOR PLAN - WASTE, VENT, & CONDENSATE DRAIN PIPING

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

NORTH



1 P2.2 CLASSROOM BLDG 060A - NEW FLOOR PLAN - WASTE, VENT, & CONDENSATE DRAIN PIPING

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

NORTH

CONSTRUCTION NOTES

1. SEE CIVIL DRAWINGS FOR CONTINUATION.
2. GRADE CLEANOUT WITH BACK-TO-BACK TEES/WYES. TWO WAY CLEANOUTS NOT ACCEPTABLE.
3. VENT THROUGH ROOF. SEE DETAIL 1/P6.1.
4. SEE DETAIL 3/P6.1 FOR CONDENSATE DRAIN PIPE CONNECTION TO FAN COIL.
5. CONDENSATE DRAIN PIPE TO PENETRATE BELOW LOUVER TO EXTERIOR. COORDINATE WITH MECHANICAL CONTRACTOR TO UTILIZE THE SAME WALL PENETRATION FOR REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING TO MINIMIZE WALL PENETRATIONS. RUN PIPING TIGHT TO EXTERIOR WALL. CLEAR BUILDING FOOTING AND RUN UNDERGROUND TO CONDENSATE DRYWELL IN CONCRETE PAD (BETWEEN CONDENSING UNITS). SEE 4/P6.1 FOR CONDENSATE DRYWELL. SEE 10/A0.30 FOR CONCRETE PAD.
6. ROUTE CONDENSATE DRAIN PIPE TIGHT TO EXTERIOR WALL. CLEAR BUILDING FOOTING AND RUN UNDERGROUND TO CONDENSATE DRYWELL IN LANDSCAPE AREA. SEE 4/P6.1 FOR CONDENSATE DRYWELL. SEE DETAIL 13/P6.1 FOR PIPE THROUGH RATED WALL.
7. VENT RISER FROM FLOOR DRAIN TRAP ARM, TYP.

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES, AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
2. COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK, PIPING, AND ALL MECHANICAL AND PLUMBING EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
3. SEE ARCHITECT'S DRAWINGS FOR PATCHING AND REPAIR OF ROOF, WALL, AND FLOOR PENETRATIONS.
4. INFORMATION SHOWN IS BASED ON AVAILABLE AS-BUILTS AND THE LOCATION OF ALL EQUIPMENT, DUCTS, PENETRATIONS, PIPING, AND OTHER PROJECTIONS SHOWN ON THE PLANS IS APPROXIMATE. NOT ALL EXISTING ITEMS ARE IDENTIFIED OR SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS, INCLUDING ALL RELEVANT DIMENSIONS, EQUIPMENT COUNTS, AND LOCATIONS PRIOR TO SUBMITTING A BID.
5. SEE PLANS AND SPECIFICATIONS FOR ALL OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK THAT MAY NOT BE SHOWN HERE. COORDINATE WITH GENERAL CONTRACTOR TO CONFIRM ENTIRE SCOPE OF WORK HAS BEEN INCLUDED.
6. SEE DETAIL 6/P6.1 FOR TRENCHING.
7. SEE DETAIL 9/P6.1 FOR WALL CLEANOUT AND DETAIL 10/P6.1 FOR FLOOR CLEANOUT.
8. SEE DETAIL 7/P6.1 FOR EXTERIOR PIPE SUPPORTS AND 8/P6.1 FOR INTERIOR PIPE SUPPORTS.
9. PROVIDE CLEANOUTS FOR EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING 135° PER CPC SECTION 707.0.

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APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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REGISTERED PROFESSIONAL ENGINEER
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EXP. JUNE 30, 2027
MECHANICAL
STATE OF CALIFORNIA

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BUILDINGS 060A & 060B - NEW FLOOR PLANS - WASTE, VENT, & CONDENSATE DRAIN PIPING - PLUMBING

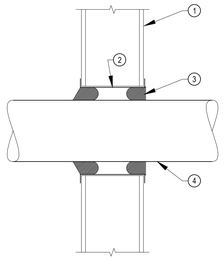
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY: JL
CHECKED BY: CS
PROJECT NO: 24149 DATE: DSA V3 SUBMITTAL: 06-12-26

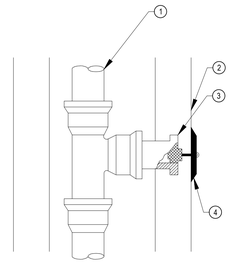
P2.2



DETAIL NOTES:

1. WALL.
2. 10 GAUGE GALVANIZED SHEET METAL SLEEVE.
3. SEAL BOTH SIDES AIRTIGHT WITH UL LISTED FIRESTOP SEALANT. HILTI SYSTEM NO. W-L-5029.
4. SEE PLANS FOR PIPE SIZES.

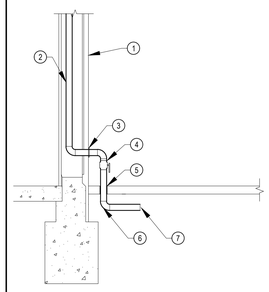
13 PIPE THROUGH RATED PARTITION N.T.S.



DETAIL NOTES:

1. VENT, SOIL, WASTE OR LEADER STACK.
2. WALL.
3. WALL CLEANOUT.
4. WALL PLATE AS SPECIFIED.

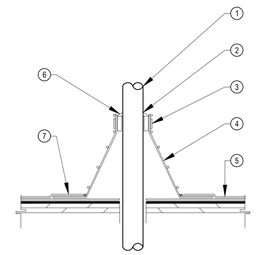
9 WALL CLEANOUT DETAIL N.T.S.



DETAIL NOTES:

1. EXTERIOR WALL. SEE ARCHITECTURAL DRAWINGS.
2. RISE PIPE IN WALL.
3. SEAL PENETRATION WATERTIGHT. PROVIDE ESCUTCHEON AT EXTERIOR.
4. SHUT-OFF VALVE ON RISER.
5. PVC SLEEVE ON GRADE. SLEEVE SIZE TO BE MIN. ONE NOMINAL SIZE LARGER THAN PIPE UP TO 1" ANNULAR CLEAR SPACE BETWEEN PIPING AND SLEEVE. FILL THE ANNULAR SPACE WITH EPDM-RUBBER.
6. RISE AS CLOSE TO WALL AS POSSIBLE.
7. SEE CIVIL DRAWINGS FOR CONTINUATION.

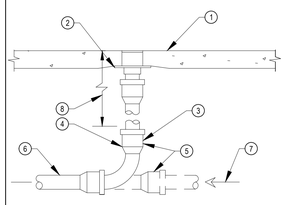
5 COLD WATER RISER N.T.S.



DETAIL NOTES:

1. PIPE. SEE DRAWINGS FOR SIZE.
2. SEAL WATERTIGHT WITH MASTIC.
3. STAINLESS STEEL CLAMPING RING.
4. PRE-MOLDED PIPE FLASHING.
5. ROOF. SEE ARCHITECTURAL DRAWINGS.
6. PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE, REGARDLESS OF PIPE DIAMETER.
7. SEAL FLASHING WATERTIGHT TO ROOF PER ROOFING MANUFACTURER'S INSTRUCTIONS.

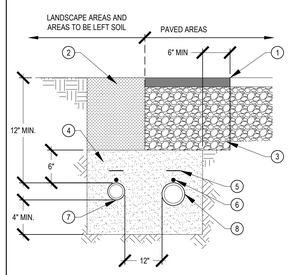
1 PIPE PENETRATION N.T.S.



DETAIL NOTES:

1. FLOOR SLAB ON GRADE.
2. MEMBRANE CLAMP.
3. LONG SWEEP ELBOW AT END OR TURN OF RUN.
4. HUB AND SPIGOT CAST IRON PIPE BELOW FLOOR.
5. COMBINED WYE AND EIGHT BEND IN RUN ENTER TOP OF PIPE.
6. SANITARY SEWER LINE.
7. DIRECTION OF FLOW.
8. AS REQUIRED DEPTH OF SEWER.

10 FLOOR CLEANOUT DETAIL N.T.S.



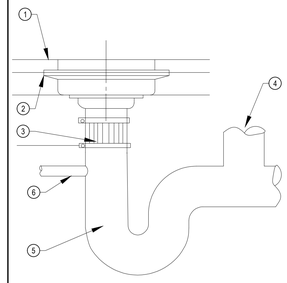
DETAIL NOTES:

1. SAWCUT PAVEMENT EACH SIDE OF TRENCH 6" FROM TRENCH EDGE, REMOVE PAVEMENT AND BASEROCK, REPLACE AND RECOMPACT BASEROCK, TACKCOAT EDGE AND REPAVE.
2. SELECT NATIVE SOILS, 90% COMPACTION FOR AREAS TO BE LEFT IN NATIVE STATE ONLY. CAP AREAS IN UNPAVED ROADWAYS WITH 12" CLASS 2 AGGREGATE BASE, 95% COMPACTION.
3. CLASS 2 AGGREGATE BASE ROCK.
4. SELECT SAND BACKFILL AT 95% COMPACTION.
5. WARNING TAPE, TYPICAL.
6. TRACER WIRE, TYPICAL.
7. DOMESTIC WATER, SEE PLANS FOR PIPE SIZES.
8. WASTE, SEE PLANS FOR PIPE SIZES.

NOTES:

1. INSTALL TRENCH PER CBC SECTION 1809.14: TRENCHES PARALLEL WITH A FOOTING SHALL NOT BE BELOW A PLANE HAVING A DOWNWARD SLOPE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL FROM A LINE 9 INCHES ABOVE THE BOTTOM EDGE OF THE FOOTING, AND NOT CLOSER THAN 18 INCHES FROM THE FACE OF SUCH FOOTING.

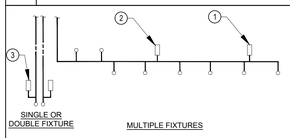
6 TRENCH DETAIL N.T.S.

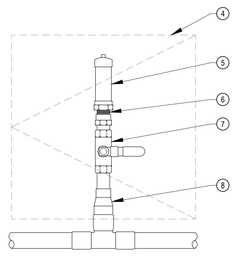


DETAIL NOTES:

1. FINISHED FLOOR.
2. WATERPROOF MEMBRANE.
3. NO-HUB CLAMP.
4. TO VENT.
5. P-TRAP.
6. 1/2" TRAP PRIMER SUPPLY.

2 FLOOR DRAIN DETAIL N.T.S.





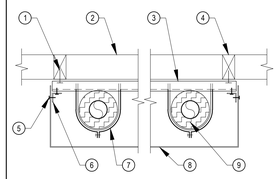
DETAIL NOTES:

1. INSTALL WATER HAMMER ARRESTOR JUST BEFORE LAST FIXTURE ON BRANCH LINE.
2. INSTALL AN ADDITIONAL WATER HAMMER ARRESTOR IF THE BRANCH LINE IS GREATER THAN 20' LONG.
3. INSTALL WATER HAMMER ARRESTOR ON ALL FIXTURES WITH QUICK CLOSING VALVES.
4. WALL ACCESS PANEL.
5. WATTS SERIES 15 OR EQUAL WATER HAMMER ARRESTOR. SIZE PER MANUFACTURER'S INSTRUCTIONS.
6. FITTING ADAPTER.
7. BALL VALVE. SIZE TO EQUAL WATER HAMMER ARRESTOR SIZE.
8. FITTING REDUCER (IF REQUIRED).

NOTES:

1. COMBINE SHUT-OFF VALVES, TRAP PRIMERS AND WATER HAMMER ARRESTORS BEHIND SINGLE WALL ACCESS PANEL WHERE POSSIBLE.

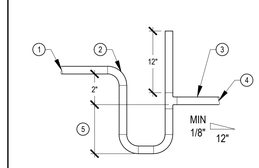
11 WATER HAMMER ARRESTOR DETAIL N.T.S.



DETAIL NOTES:

1. SCREW CHANNEL INTO WALL STUD W/ 2-3/8"x2" LAG SCREWS.
2. WALL.
3. UNISTRUT P1000 CHANNEL.
4. WALL STUD.
5. #10 x 1" SMS @ 24" O.C. EA SIDE (3" MIN. FROM TOP & BOTTOM OF COVER EA SIDE).
6. 1-1/2" x 1-1/2" x 2" LONG 16 GA. MIN. METAL ANGLE @ 24" O.C. EA SIDE, EA END (MIN. TOP & BOTTOM).
7. ZSI FOSTER CUSH-A-THERM PIPE CLAMP.
8. 8" DEEP MAX. CONTINUOUS STEEL COVER (16 GA. GALV.), PAINTED TO MATCH (E) WALL COLOR. FABRICATE CORNER PIECES TO FOLLOW PIPING TURNS.
9. PIPE(S). SEE PLANS FOR TYPES AND SIZES.

7 PIPE SUPPORT - EXTERIOR N.T.S.



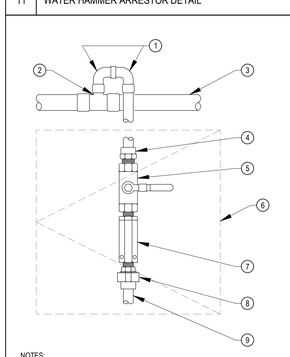
DETAIL NOTES:

1. CONNECT CD TO UNIT PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
2. LONG RADIUS ELBOW, TYP.
3. PITCH MINIMUM 1/8" PER FOOT TO DRAIN.
4. SEE PLANS FOR CONTINUATION.
5. UNIT TOTAL INCHES STATIC PRESSURE ±2".

NOTES:

1. CD PIPE SIZE SHALL NOT BE SMALLER THAN UNIT DRAIN CONNECTION SIZE.
2. FOR PIPE SIZES AND LOCATIONS, SEE PLANS.

3 CONDENSATE DRAIN CONNECTION TO FAN COIL, RTU, OR DOAS N.T.S.



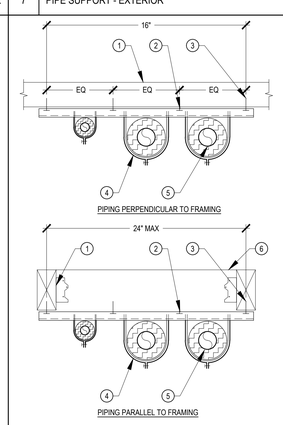
NOTES:

1. UP TO FOUR (4) FLOOR DRAINS MAY BE SERVED BY ONE (1) TRAP PRIMER. INSTALL DISTRIBUTION UNIT PPP SERIES "DU" OR EQUAL, DOWNSTREAM OF UNION. DISTRIBUTION UNIT TO ALSO BE ACCESSIBLE FROM WALL ACCESS PANEL.
2. COMBINE SHUT-OFF VALVES, TRAP PRIMERS AND WATER HAMMER ARRESTORS BEHIND SINGLE WALL ACCESS PANEL WHERE POSSIBLE.

DETAIL NOTES:

1. 1/2" 90° STREET ELLS OFF TOP OF CW SUPPLY LINE TO PREVENT DEBRIS FROM ENTERING TRAP PRIMER.
2. TEE.
3. CW SUPPLY LINE.
4. ADAPTER.
5. 1/2" BALL VALVE.
6. WALL ACCESS PANEL.
7. TRAP PRIMER WITH INTEGRAL BACKFLOW PREVENTER AND VACUUM BREAKER. PPP PR-500 PRIME-RITE OR EQUAL. MOUNT TRAP PRIMER MIN 12" AFF FOR EVERY 20' OF PRIMER LINE.
8. UNION.
9. RUN 1/2" CW DOWN TO BELOW GRADE. THEN EXTEND TO FLOOR DRAIN.

12 TRAP PRIMER N.T.S.



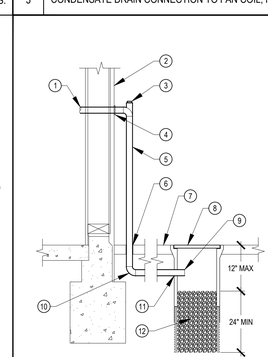
DETAIL NOTES:

1. FRAMING.
2. UNISTRUT P1000 CHANNEL.
3. SCREW CHANNEL INTO FRAMING W/ 4-#9 SCREWS, 3" MIN EMBEDMENT CENTERED ON JOIST.
4. ZSI FOSTER CUSH-A-THERM PIPE CLAMP.
5. PIPE(S). SEE PLANS FOR TYPES AND SIZES.
6. 4x BLOCKING AT P1000, W/ A31 EA END EA SIDE.

NOTES:

1. 6 FT MAX SPACING BETWEEN SUPPORT. MAX TOTAL LOAD SHALL NOT EXCEED 40 LBS PER SUPPORT.

8 PIPE SUPPORT - INTERIOR N.T.S.



DETAIL NOTES:

1. CONDENSATE DRAIN PIPE. PENETRATE WALL AS LOW AS POSSIBLE. SEE PLANS FOR SIZES AND LOCATIONS.
2. EXTERIOR WALL.
3. CLEANOUT.
4. SEAL PENETRATION WATERTIGHT. PROVIDE ESCUTCHEON AT EXTERIOR.
5. ROUTE PIPING TIGHT TO WALL. PAINT PIPE TO MATCH WALL COLOR.
6. DROP PIPE BELOW GRADE CLOSE TO WALL. PIPE SHALL NOT BE A TRIPPING HAZARD.
7. GRADE.
8. CHRISTY G05 CURB VALVE BOX WITH ADS SNAP ADAPTER AND 18" ADS EXTENSION. WITH G05 CAST IRON LID. FLUSH WITH GRADE.
9. SPILL WITH 1" AIR GAP.
10. PIPE SHALL CLEAR (NOT PASS THROUGH) BUILDING FOOTING.
11. CORE DRILL BOX FOR PIPE TO PASS THROUGH.
12. FILL WITH WASHED PEA GRAVEL.

4 CONDENSATE DRYWELL N.T.S.

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DATE: 06/25/2026
(DSA STAMP AREA)

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REGISTERED PROFESSIONAL ENGINEER
MEIN SERTSU
No. M31059
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MECHANICAL
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CYPRESS Engineering Group
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Industrial Refrigeration
Environmental Services
Training & Technical Support
831.218.1902 Suite A8
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Monterey, CA 93940
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CEG JOB NO: 25001

DETAILS - PLUMBING

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY: JL
CHECKED BY: CS
PROJECT NO: 24149
DATE: DSA V3 SUBMITTAL: 06-12-26

P6.1

POWER PLAN NOTES

A. FUSING: ALL FUSIBLE SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL-ELEMENT TIME DELAY TYPE FUSES SIZED AND RATED PER EQUIPMENT MANUFACTURERS' RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.

B. INSTALL SEPARATE NEUTRALS FOR EACH 120V BRANCH CIRCUIT.

C. MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY CEC ARTICLE 430 PART III AND NOT SHOWN ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.

D. SPARE CONDUIT FOR RECESSED PANELS: PROVIDE (1) 3/4" SPARE CONDUIT STUB UP TO ACCESSIBLE ABOVE CEILING SPACE AND/OR ACCESSIBLE SPACE BELOW FOR EVERY (3) SPARE BREAKER SPACES AS INDICATED ON PANEL SCHEDULES.

E. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

F. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

G. ALL 125V AND 250V, 15- AND 20-AMPERE NONLOCKING-TYPE RECEPTACLES WITHIN COMMON AREAS SHALL BE TAMPER-RESISTANT PER CEC 406.12.

LIGHTING PLAN NOTES

A. NIGHT LIGHT "NL" DESIGNATED LUMINAIRES IN INTERIOR LOCATIONS SHALL HAVE THE DRIVER CONTINUOUSLY ENERGIZED. LUMINAIRES IN EXTERIOR LOCATIONS SHALL BE AUTOMATICALLY CONTROLLED TO BE ON FROM DUSK TO DAWN.

B. LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.

C. REFER TO ARCHITECT'S REFLECTED CEILING PLAN(S) FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA. VERIFY FLANGE TYPES, TRIM KITS, STEM LENGTHS, ETC. FOR ALL FIXTURES PRIOR TO SUBMITTALS.

D. CONFIRM LOCATION OF ALL DOORS SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN OF SWITCHES.

E. PROVIDE UNSWITCHED HOT LEG OF ROOM LIGHTING BRANCH CIRCUIT TO EACH BATTERY POWERED EMERGENCY LIGHT AND EXIT SIGN FOR CONTINUOUS CHARGING.

F. OUTDOOR LIGHTING FOR RESIDENTIAL UNIT PRIVATE PATIOS, ENTRANCES, BALCONIES, AND PORCHES SHALL BE CONTROLLED BY A MANUAL ON/OFF SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF AN ASTRONOMICAL TIME CLOCK PER CEnC 150.0(k)3Bi.

LIGHTING CONTROL GENERAL NOTES

A. CONTRACTOR TO PROVIDE COMPLETE MANUFACTURERS SHOP DRAWINGS SPECIFIC TO THIS PROJECT FOR THE INTERIOR AND EXTERIOR LIGHTING CONTROL SYSTEM.

B. VERIFY OCCUPANCY SETTING FOR EACH TYPE OF ROOM WITH OWNER AND ADJUST AS DIRECTED BY OWNER.

C. VERIFY EACH RELAY PROGRAMMING WITH OWNER AND PROGRAM EACH AS DIRECTED BY OWNER.

D. PROVIDE OWNER IN SERVICE TRAINING FOR LIGHTING CONTROL SYSTEM.

E. WHERE MULTIPLE CHANNEL CONTROLS HAVE BEEN PROVIDED IN A ROOM OR SPACE, VERIFY FIXTURE ZONING REQUIREMENTS WITH OWNER PRIOR TO PRODUCING SHOP DRAWINGS AND INSTALLATION.

F. FOR CLARIFICATION ALL REQUIRED LOW VOLTAGE CONTROL DEVICES AND CABLING MAY HAVE NOT BEEN SHOWN, CONTRACTOR TO PROVIDE ALL LOW VOLTAGE DEVICES AND CABLING AS REQUIRED TO MAKE CONTROL SYSTEMS FULLY FUNCTIONAL.

CONDUIT SYSTEM NOTES

CONDUIT SYSTEMS USED ON THIS PROJECT SHALL BE AS FOLLOWS

1. PVC SCHEDULE 40 OR 80 - UNDERGROUND/BELOW SLAB WITH GRS ELBOWS AND RISERS TAPE WRAPPED.
2. ELECTRICAL METALLIC CONDUIT (EMT) - ABOVE GRADE/SLAB IN BUILDING CONSTRUCTION AND WHERE EXPOSED ABOVE 8'-0" AFF.
3. GALVANIZED RIGID STEEL (GRS) - WHERE EXPOSED BELOW 8'-0" AFF. AND/OR WHERE SUBJECT TO PHYSICAL DAMAGE.

REFER TO SECTION 260533 & 260500 OF SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONDUITS SHALL BE MINIMUM 1/2" UNLESS OTHERWISE NOTED, 3/4" FOR ALL HOME RUN CONDUITS AND WHERE ROUTED BELOW SLAB OR UNDERGROUND. CONDUIT SIZES, WHERE NOT NOTED ON THE DRAWINGS, SHALL BE SIZED FOR MAXIMUM 40% FILL PER CEC CHAPTER 9, TABLE 1.

GENERAL NOTES

1. CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:

   A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA FIRE CODE, 2022 CALIFORNIA BUILDING CODE, ETC. WITH DSA AMENDMENTS AS APPLICABLE.

   B. AMERICANS WITH DISABILITIES ACT (ADA).

2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.

3. FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

4. MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

   +15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS. (MEASURED BOTTOM OF OUTLET BOX)
   +46" AFF: OUTLET ABOVE COUNTER (MEAUSRED TOP OF OUTLET BOX)
   +48" AFF: LIGHT SWITCHES. (MEASURED TOP OF OUTLET BOX)
   +48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS. (MEASURED TOP OF OUTLET BOX)
   THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.

   ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]

   ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

   BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR 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.

5. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS (U.O.N). FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

6. ANCHORAGE AND BRACING NOTES:

   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 125/250 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 HAVING 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 SECTION 13.3 AS DEFINED IN ASCE 7 SECTION 13.6.5, 13.6.6, 13.6.7, AND13.6.8; 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. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS BEEN VERIFIED THAT THE DESIGN METHODS BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

   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. REFER TO DETAILS ON SHEETS E0.06 THROUGH E0.08.

   EXISTING BUILDINGS

1. ASBESTOS: IF DURING THE COURSE OF WORK THE CONTRACTOR OBSERVES THE EXISTENCE OF ASBESTOS, OR ASBESTOS-BEARING MATERIALS, THE CONTRACTOR SHALL IMMEDIATELY TERMINATE FURTHER WORK ON THE PROJECT AND NOTIFY THE OWNER OF THE CONDITION. THE OWNER WILL, AFTER CONSULTATION WITH THE OWNER'S REPRESENTATIVE, DETERMINE A FURTHER COURSE OF ACTION.

2. ANY DEMOLITION WORK SHOWN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

3. EXISTING CONDITIONS: INFORMATION SHOWN FOR EXISTING CONDITIONS WAS PRIMARILY GAINED FROM "AS BUILT" DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. BEFORE BID, VISIT SITE TO VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCE FOR VARIATIONS FROM THAT SHOWN.

4. EXISTING CONDUCTORS: INTERCEPT, EXTEND, REROUTE, REPULL CONDUCTORS, SPLICE AND OTHERWISE MODIFY EXISTING CONDUCTORS OF ALL SYSTEMS AS REQUIRED TO MAINTAIN AND/OR ESTABLISH PROPER FUNCTION AND SATISFY DESIGN INTENT. REMOVE ABANDONED CONDUCTORS.

5. WHERE EXISTING BUILDING CONSTRUCTION, MECHANICAL UNITS AND OTHER EQUIPMENT IS SHOWN TO BE REMOVED, DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL INSTALLATION.

6. CLOSELY COORDINATE OUTAGE AND FACILITY DISRUPTION TIME WITH ARCHITECT AND OWNER. MINIMUM 72-HOUR NOTICE IS REQUIRED BEFORE ANY CIRCUIT SHUTDOWN OR DISRUPTION OF FACILITY PERSONNEL FUNCTIONING.

7. EXISTING ABANDONED CONDUCTORS REMOVED OVER #12 AWG SHALL BE SALVAGED BACK TO THE DISTRICT MAINTENANCE YARD LOCATED AT 222 STANLEY AVE, ARROYO GRANDE, CA.

MECHANICAL SYSTEMS

1. MECHANICAL UNIT CONDUITS: TO PREVENT DAMAGE DUE TO VIBRATION, BOTH POWER AND CONTROL WIRING CONDUITS FEEDING EXTERIOR MECHANICAL UNITS SHALL BE PROVIDED AND INSTALLED WITH LIQUID-TIGHT FLEXIBLE METALLIC TYPE CONDUIT AT FINAL CONNECTION TO UNIT AND BETWEEN ROOF JACK AND DISCONNECT SWITCH WHERE DISCONNECT IS MOUNTED ON UNIT.

2. MECHANICAL CONTROLS RACEWAYS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AS REQUIRED IN ACCORD WITH SECTION 26 0533 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. INCLUDING BUT NOT LIMITED TO: J-BOXES, RINGS, CONDUIT AND SUPPORTS (SIZE ALL AS REQUIRED).

3. EXHAUST FANS SHALL BE PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR WITH WIRING CONNECTIONS MADE BY ELECTRICAL CONTRACTOR.

4. MECHANICAL EQUIPMENT CONTROLS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRE AND CONNECTIONS (BELOW 120 VOLT) TO AND FROM ALL MECHANICAL CONTROL DEVICES. LOW VOLTAGE CONTROL WIRE SHALL BE IN CONDUIT, UNLESS OTHERWISE NOTED.

5. PULLROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER IF REQUIRED BY SERVING UTILITY COMPANY. ANY NEW OR EXISTING COMMUNICATION OR SIGNAL RACEWAY ROUTED BETWEEN BUILDINGS, SIGNAL CABINETS, AND/OR SIGNAL CLOSETS WITH FUTURE CAPACITY SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AS WELL AS THE CALLED FOR CABLE.

COMMUNICATION PLAN NOTES

A. SIGNAL AND COMMUNICATIONS SYSTEMS RACEWAYS AND BOXES: PROVIDE AND INSTALL 5" SQUARE RECESSED JUNCTION BOX WITH 1-GANG RING. RUN 1-1/4" CONDUIT STUB TO ACCESSIBLE CEILING SPACE ABOVE OR UNDER FLOOR SPACE BELOW AS APPLICABLE AT EACH WALL TELEVISION AND DATA OUTLET LOCATION SHOWN ON THE PLANS UNLESS OTHERWISE NOTED.

WHERE NO ACCESSIBLE CEILING SPACE EXISTS, EC SHALL RUN (1) 1-1/4" CONDUIT FROM EACH OUTLET (FLOOR OR WALL) TO TELEPHONE TERMINAL BOARD, OR TO NEAREST PRIMARY PATHWAY.

BEFORE CONSTRUCTION, COORDINATE AND VERIFY ALL DATA AND TELEPHONE LOCATIONS WITH OWNER OR ARCHITECT.

B. DATA WIRING: EACH VOICE/DATA OUTLET LOCATION SHOWN ON THE PLANS SHALL HAVE (2) 4 PAIR, 24 GAUGE, CATEGORY 6, UTP CABLES HOMERUN TO THE TELEPHONE TERMINAL BOARD UNLESS OTHERWISE NOTED. TERMINATE EACH CABLE AT BOTH ENDS WITH OWNER APPROVED JACK. VERIFY SYSTEM REQUIREMENTS WITH OWNER OR ARCHITECT PRIOR TO CONSTRUCTION. LABEL EACH JACK, FACEPLATE, AND CABLE PER OWNER APPROVED LABELING SCHEME.

C. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

D. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

LUCIA MAR UNIFIED SCHOOL DISTRICT STANDARDS

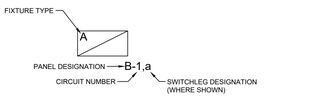
ALL WORK SHALL COMPLY WITH LUCIA MAR UNIFIED SCHOOL DISTRICT STANDARDS. CONTRACTOR TO CONTACT SCHOOL DISTRICT DIRECTLY, OBTAIN COMPLETE LIST OF DISTRICT STANDARDS, AND ADHERE ACCORDINGLY.

SHEET INDEX

SHEET NO.	NEW CLASSROOM BUILDINGS AT NIPOMO HIGH SCHOOL
E0.01	ELECTRICAL GENERAL NOTES, LEGEND, AND ABBREVIATIONS
E0.02	SINGLE LINE DIAGRAM
E0.03	ELECTRICAL SCHEDULES
E0.04	LUMINAIRE SCHEDULE
E0.06	ELECTRICAL DETAILS
E0.07	ELECTRICAL DETAILS
E0.08	ELECTRICAL DETAILS
E0.10	TITLE 24 COMPLIANCE DOCUMENTATION - BUILDING 060A - EXTERIOR
E0.11	TITLE 24 COMPLIANCE DOCUMENTATION - BUILDING 060A - INTERIOR
E0.12	TITLE 24 COMPLIANCE DOCUMENTATION - BUILDING 060B - EXTERIOR
E0.13	TITLE 24 COMPLIANCE DOCUMENTATION - BUILDING 060B - INTERIOR
E0.20	ELECTRICAL SITE PLAN
E2.1	ELECTRICAL POWER/COMM FLOOR PLAN
E3.1	ELECTRICAL LIGHTING/CONTROLS PLAN
E4.1	ELECTRICAL ROOF PLAN
E5.1	FIRE ALARM FLOOR PLAN
E5.2	FIRE ALARM RISER
E5.3	FIRE ALARM DETAILS
E5.4	FIRE ALARM CALCULATIONS
E6.0	GENERAL COMMUNICATION PLAN NOTES, BOD
E6.1	COMM RISER/COMM DETAILS

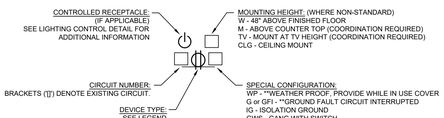
CIRCUITING LEGEND

LIGHTING PLAN



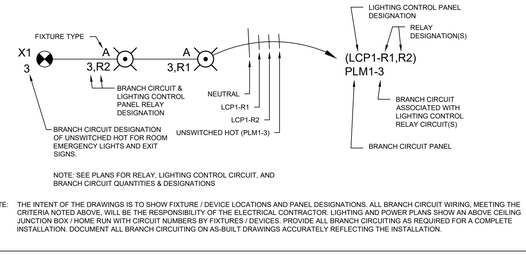
- PROVIDE ALL BRANCH CIRCUIT WIRING FROM FIXTURES TO PANEL(S) AS DESCRIBED BY CIRCUIT NUMBERS SHOWN.
- PROVIDE ALL WIRING BETWEEN FIXTURES AND CONTROL DEVICES AS DESCRIBED IN REFERENCE NOTES AND/OR SHOWN BY SWITCHLEG DESIGNATIONS.
- EXIT AND EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED BRANCH CIRCUIT CONDUCTOR.
- HOME RUN CONDUITS SHALL BE 3/4"C., MAX OF (3) BRANCH CIRCUITS PER CONDUIT.
- PROVIDE ALL BRANCH CIRCUIT WIRING FROM MECH. EQUIPMENT TO PANELS.

POWER PLAN



- PROVIDE ALL BRANCH CIRCUIT WIRING FROM DEVICES TO PANEL(S) PER DESIGNATIONS/CIRCUIT NUMBERS.
- EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AS INDICATED ON PANEL SCHEDULES.
- HOME RUN CONDUITS SHALL BE 3/4"C, MAX OF (3) BRANCH CIRCUITS PER CONDUIT.
- INCREASE HOME RUN CONDUIT SIZE TO 1"C FOR (4) BRANCH CIRCUITS OR MORE.
- (**) DENOTES SPECIAL DEVICE/NAMEPLATE REQUIREMENTS.

TYPICAL LIGHTING CONTROL PANEL CIRCUIT CONVENTION



NOTE: SEE PLANS FOR RELAY, LIGHTING CONTROL CIRCUIT, AND BRANCH CIRCUIT QUANTITIES & DESIGNATIONS

NOTE: THE INTENT OF THE DRAWINGS IS TO SHOW FIXTURE / DEVICE LOCATIONS AND PANEL DESIGNATIONS. ALL BRANCH CIRCUIT WIRING, MEETING THE CRITERIA NOTED ABOVE, WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. LIGHTING AND POWER PLANS SHOW AN ABOVE CEILING JUNCTION BOX / HOME RUN WITH CIRCUIT NUMBERS BY FIXTURES / DEVICES. PROVIDE ALL BRANCH CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. DOCUMENT ALL BRANCH CIRCUITING ON AS-BUILT DRAWINGS ACCURATELY REFLECTING THE INSTALLATION.

ABBREVIATIONS

A	AMPERE
AB	AMP BREAKER
ABAND	ABANDONED
ABV	ABOVE
AC	ALTERNATING CURRENT
AC-#	AIR CONDITIONER
ADJ	ADJACENT
AF	AMP FUSE; AMP FRAME
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
AS	AMP SWITCH RATING
ATS	AUTOMATIC TIME SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIBLE/AUDIO VISUAL
AWG	AMERICAN WIRE GAGE
BFG	BELOW FINISH GRADE
BIL	BASIC IMPULSE LEVEL
BLDG	BUILDING
C	CONDUIT
-C-	CATV CONDUIT
CABT	CABINET
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER, CODE BLUE
CBC	CA. BUILDING CODE
CEC	CA. ELECTRICAL CODE
	CA. ENERGY COMMISSION
CF	COMPACT FLUORESCENT
CFC	CALIFORNIA FIRE CODE
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CLG	CEILING
CL	CENTER LINE
CKT	CIRCUIT
CNTR	CONTRACTOR
C.O.	CONDUIT ONLY (W/PULLROPE)
COND	CONDUIT, CONDUCTOR
CR	CRITICAL BRANCH
CSFM	CALIFORNIA SFM
CT	CURRENT TRANSFORMER
Cu	COPPER
CU-#	CONDENSING UNIT
D	DEPTH
DC	DIRECT CURRENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DPST	DOUBLE POLE SINGLE THROW
DW	DISHWASHER
EM	EMERGENCY
(E)	EXISTING
EA	EACH
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EC-#	EVAPORATIVE COOLER
EF-#	EXHAUST FAN
EL	EVENING LIGHT
ELEC	ELECTRICAL
EM	EMERG BATTERY BACKUP EMERGENCY BALLAST
EMERG	EMERGENCY
EOL	END OF LINE
EQUIPT	EQUIPMENT
ES	ENERGY SAVING
(EXN)	(E) IN (N) LOCATION
(EXR)	(E) TO BE (R)
EXT	EXTERIOR
F	FLUORESCENT
(F)	FUTURE
F-#	FURNACE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAT	FIRE ALARM TERMINAL
FAU	FORCED AIR UNIT
FBO	FURNISHED BY OTHERS
FC-#	FAN COIL
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FS	FUSIBLE SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUNDING CONDUCTOR
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
GWS	GANG WITH SWITCH
H	HEIGHT, HIGH
HACR	HEATING, AC & REFRIG
HID	HIGH INTENSITY DISCHARGE
HO	HIGH OUTPUT
HOA	HAND-OFF-AUTO
hp	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
IC	INTERCOM
ID	IDENTIFICATION
IDF	INTERMEDIATE DISTRIBUTION FRAME
IF	INSIDE FROST
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
k	QUANTITY 1000
kVA	KILOVOLTAMPS
kW	KILOWATT
LC	LIGHTING CONTACTOR
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LS	LIFE SAFETY BRANCH
LT	LIGHT
LTG	LIGHTING
LV	LOW VOLTAGE
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CKT AMPS
MCB	MAIN CIRCUIT BREAKER
MCTB	MAIN CATV TERMINAL BOARD
MCTC	MAIN CATV TERMINAL CABINET
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MFR	MANUFACTURER
MFS	MAIN FUSIBLE SWITCH
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OCP
MSB	MAIN SWITCHBOARD
MT	MOUNT
MT HT	MOUNTING HEIGHT
MTS	MANUAL TRANSFER SWITCH
MTTB	MAIN TELEPHONE TERMINAL BOARD
MTTC	MAIN TELEPHONE TERMINAL CABINET
MW	MICROWAVE
N	NEUTRAL (GROUNDED CONDUCTOR)
(N)	NEW
NIR	NEMA JR
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NAT'L ELEC MANUFACTURER'S ASSOC
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVERCURRENT PROTECTION
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OSA	OFFICE of the STATE

(E) "MS" EXISTING LOAD-CALC:

TOTAL LOAD (E) 'MS' AFTER HVAC ADDITION W/ SAFETY FACTOR (DSA#03-125585) = 213.85 KVA

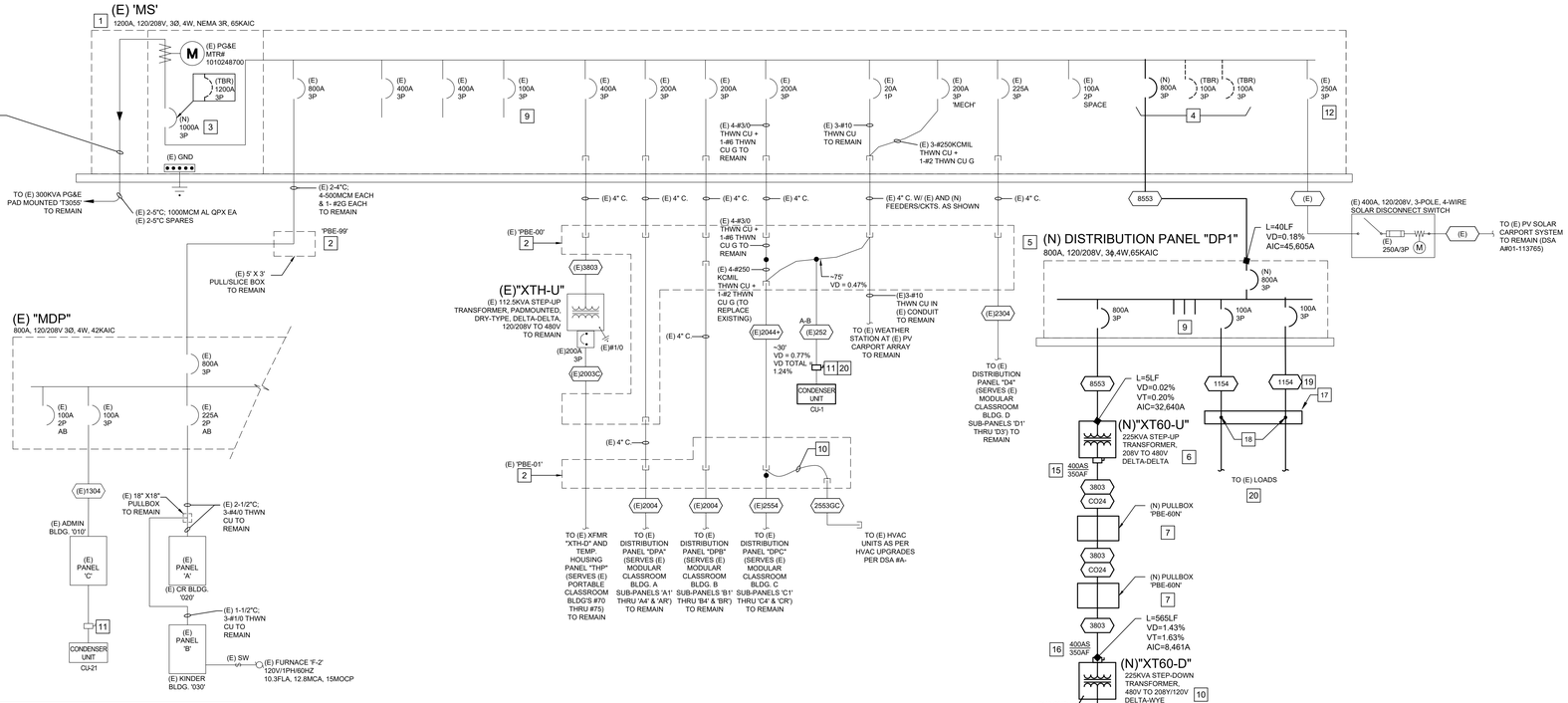
(E) "MS" NEW LOAD-CALC (UNDER THIS PROJECT):
(N)(2) BUILDING CLASSROOMS + 114.227 KVA

(E) 'MS' NEW CALCULATED LOAD = 321.713 KVA
911A @ 120/208V, 3PH

THE CALCULATED LOAD ON "MS" AFTER THE ADDITION OF LOAD DOES NOT EXCEED THE RATING OF THE SERVICE SWITCHBOARD (1,000A). THEREFORE, THE PROPOSED LOAD ADDITION IS FOUND ACCEPTABLE.

EXISTING ELECTRICAL SERVICE SWITCHBOARD HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT AND COORDINATE WITH THE SERVING UTILITY TO ENSURE ALL SERVING UTILITY REQUIREMENTS ARE MET AND THAT THE LOAD ADDITIONS ARE MADE KNOWN.

EXISTING ELECTRICAL SERVICE SWITCHBOARD HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT AND COORDINATE WITH THE SERVING UTILITY TO ENSURE ALL SERVING UTILITY REQUIREMENTS ARE MET AND THAT THE LOAD ADDITIONS ARE MADE KNOWN.



☐ REFERENCE NOTES

1. (E) ELECTRICAL SERVICE MAIN SWITCHBOARD 'MS' TO REMAIN. REFER TO ELECTRICAL SITE PLAN FOR LOCATION.
2. (E) FLUSH IN-GRADE #5 STYLE ELECTRICAL VAULT (3'X5'X3'-6") TO REMAIN. REFER TO ELECTRICAL SITE PLAN FOR LOCATION.
3. CONTRACTOR SHALL DEMOLISHED EXISTING MAIN CIRCUIT BREAKER AND RETURN TO DISTRICT. CONTRACTOR SHALL INSTALL NEW BREAKER, RATING AS INDICATED. BREAKER SHALL MATCH AIC RATING AND SHALL INCLUDE ALL NECESSARY HARDWARE. CONTRACTOR SHALL INSTALL APPROVED PROTECTIVE COVERS OR BARRIERS TO ENSURE EQUIPMENT COMPONENTS ARE PROTECTED FROM ARC-FLASH HAZARDS AT ALL TIME.
4. CONTRACTOR SHALL REMOVED EXISTING (2) 100A BREAKERS AND INSTALL NEW 800A, 3-POLE BREAKER TO FEED NEW DISTRIBUTION PANELBOARD 'DP1'. SALVAGE BREAKERS AND RETURN TO DISTRICT. CONTRACTOR SHALL INSTALL APPROVED PROTECTIVE COVERS OR BARRIERS TO ENSURE EXPOSED EQUIPMENT COMPONENTS ARE PROTECTED FROM ARC-FLASH HAZARDS AT ALL TIME.
5. NEW DISTRIBUTION PANELBOARD 'DP1'. PROVIDE WITH NEMA 3R ENCLOSURE.
6. NEW DRY-TYPE ENERGY EFFICIENT TRANSFORMER "XT60-U". RATING AS INDICATED. PROVIDE WITH:
   - 6.1. NEMA 3R RATING ENCLOSURE.
   - 6.2. 150 DEG. C RISE.
   - 6.3. 5% TAP VOLTAGE PROVISIONS
7. NEW FLUSH IN-GRADE PULLBOX. LABEL LID 'ELECTRICAL' AND REFER TO SITE PLAN FOR LOCATION.
8. TO SOLAR SINGLE LINE DIAGRAM. SEE SINGLE LINE DIAGRAM ON SHEET PV0.02 FOR CONTINUATION.
9. CONTRACTOR SHALL TURN OFF ANY UNUSED BREAKER AND PROVIDE A SPARE LABEL.
10. NEW DRY-TYPE ENERGY EFFICIENT TRANSFORMER "XT60-D". RATING AS INDICATED. PROVIDE WITH:
    - 10.1. NEMA 1 RATING ENCLOSURE.
    - 10.2. 150 DEG. C RISE.
    - 10.3. 5% TAP VOLTAGE PROVISIONS
    - 10.4. NOISE AND ISOLATION PADS
11. EXISTING FUSED NEMA 3R DISCONNECT SWITCH (LOCATION, RATING AND REQUIREMENTS PER SITE PLAN) MOUNTED ADJACENT TO CONDENSER UNIT.
12. (E) BACKFED BREAKER SHALL REMAIN.
13. NEW DISTRIBUTION PANELBOARD 'DP60'. RATING AS INDICATED.
14. CONTRACTOR SHALL EXTEND (2) 3" CONDUITS FROM DISTRIBUTION PANELBOARD 'DP60' TO PULLBOX 'PBE-60N' AS SHOWN ON SITE FOR FUTURE EXPANSION. REFER TO ELECTRICAL SITE PLAN E0.20 (REFERENCE NOTE #20).
15. TRANSFORMER AC DISCONNECT TO BE INSTALL AT UTILITY YARD NEAR EXISTING MAIN SWITCHBOAR 'MS'. RATING AS INDICATED. PROVIDE WITH NEMA 3R ENCLOSURE.
16. TRANSFORMER AC DISCONNECT TO BE INSALL IN NEW ELECTRICAL ROOM AT BUILDING 060B. RATING AS INDICATED. PROVIDE WITH NEMA 1 ENCLOSURE.
17. CONTRACTOR SHALL INTERCEPT EXISTING CONDUITS AND FEEDER FOR 100A EXISTING LOADS, AND INSTALL NEW PULLBOX 'PBE-DP1'. REFER TO SITE PLAN FOR PULLBOX LOCATION, DIMENSIONS, AND REQUIREMENTS.
18. CONTRACTOR SHALL USE UL LISTED COMPRESSION SPLICE ON EXISTING CONDUCTORS WITHIN PULLBOX.
19. CONTRACTOR SHALL EXTEND NEW FEEDER FROM NEW PULLBOX 'PBDP1' AND TERMINATE CONDUCTORS IN DISTRIBUTION PANELBOARD 'DP1'.
20. EXISTING CONDUCTORS SHALL REMAIN.

SINGLE LINE DIAGRAM NOTES

A. ALL CONDUCTORS SHALL BE COPPER WITH TYPE [THHN/THWN] INSULATION UNLESS OTHERWISE NOTED.

B. ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.

C. DESIGN SHOWN IS BASED ON SQUARE D PRODUCT. ENGINEER-APPROVED EQUAL ALTERNATE PRODUCT WILL BE ACCEPTABLE.

D. ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).

E. ALL EQUIPMENT SHALL HAVE ARC FLASH WARNING LABELS PER DETAIL 1/E0.2.

F. REFER TO PANEL SCHEDULES FOR INDIVIDUAL BRANCH CIRCUIT VOLTAGE DROP AND/OR THE SINGLE LINE DIAGRAM ON THIS SHEET FOR FEEDER VOLTAGE DROP CALCULATIONS.

G. BRANCH CIRCUIT/FEEDER DISTANCE IS SHOWN FOR REFERENCE ONLY AS THE BASIS OF VOLTAGE DROP CALCULATIONS. CONDUCTOR DISTANCE AS INDICATED SHALL NOT BE USED FOR BIDDING/CONSTRUCTION PURPOSES. SHOULD THE FEEDER DISTANCE EXCEED THE LENGTH NOTED PER INSTALLATION CONDITIONS, NOTIFY THE ENGINEER OF RECORD.

COPPER FEEDER SCHEDULE

FEEDER NO.	RACEWAY QUANTITY/SIZE	CONDUCTORS
353	(1) 3/4"C	(3) #10 THWN & (1) #10 GND.
1153	(1) 1-1/2"C	(3) #2 THWN & (1) #6 GND.
1154	(1) 1-1/2"C	(4) #2 THWN & (1) #6 GND.
1303	(1) 1-1/2"C	(3) #1 THWN & (1) #6 GND.
2004	(1) 2"C	(4) #3/0 THWN & (1) #6 GND.
3803	(1) 4"C	(3) #500 KCMIL THWN & (1) #3 GND.
8553	(3) 2-1/2"C	(3) #300 KCMIL THWN & (1) #1/0 GND. EACH
8554	(3) 2-1/2"C	(4) #300 KCMIL THWN & (1) #1/0 GND. EACH
CO24	(2) 4"C	CONDUIT ONLY WITH PULL ROPE.

PARTIAL SINGLELINE DIAGRAM

SCALE: NTS

WARNING

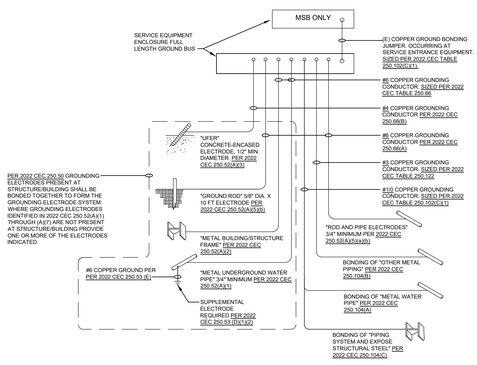
Arc Flash And Shock Hazard Appropriate PPE Required

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

- ARC-FLASH HAZARD WARNING LABEL SHALL BE PROVIDED FOR ALL NEWLY INSTALLED ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, SWITCHGEAR, ENCLOSED PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS, THAT IS IN OTHER THAN DWELLING UNITS IN ACCORDANCE WITH CEC 110.16.
- AF LABEL SHALL FOLLOW HAZARD LABEL CONVENTION PER ANSI Z535/NFPA 70E
- PROVIDE DECAL WARNING LABEL WITH BLACK TEXT ON ORANGE BACKGROUND

1 TYPICAL ARC FLASH SIGNAGE



2 TYPICAL GROUNDING/BOND DETAIL
SCALE:

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
NO. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8049

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

SINGLE LINE DIAGRAM

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E0.02

(N) PANEL P85

BUS RATING: 100A 120/208V, 1PH, 3W
MLO: 100A MAIN LUGS ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: INTERVENTION 80
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.59%	40		R	1	R-RM85	20	1	12	540		12	2	20	FC-85 ELEC. HEATER	2	M		4	0.56%
									780										
0.97%	65		R	3	R-RM85 - TS	20	1	12		540	12	-	-	-	4	M		4	0.56%
										780									
1.49%	75		R	5	R-RM85 - TS	20	1	12	720		10	2	35	HP-85	6	M		4	1.76%
									3536										
1.29%	65		R	7	R-RM85 CONV.	20	1	12		720	10	-	-	-	8	M		4	1.76%
										3536									
				9	SPARE						1	20		SPARE	10				
				11	SPACE									SPACE	12				
0.59%	45	1	L	13	CLASSROOM 85 LTG.	20	1	12	480					SPACE	14				
				15	SPACE									SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	6056	5576
25%:	120	0
SUB:	0	0
TOT:	6176	5576
AMPS	51	46

LOAD (VA)	LOAD TYPE	LEGEND
2520	R	RECEPTACLE
480	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
8632	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL P86

BUS RATING: 100A 120/208V, 1PH, 3W
MLO: 100A MAIN LUGS ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: INTERVENTION 80
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.97%	65		R	1	R-RM86	20	1	12	540		12	2	20	FC-86 ELEC. HEATER	2	M		4	0.56%
									780										
1.04%	70		R	3	R-RM86 - TS	20	1	12		540	12	-	-	-	4	M		4	0.56%
										780									
1.29%	65		R	5	R-RM86 - TS	20	1	12	720		10	2	35	HP-86	6	M		4	1.76%
									3536										
0.79%	40		R	7	R-RM86 CONV.	20	1	12		720	10	-	-	-	8	M		4	1.76%
										3536									
				9	SPARE	20	1				1	20		SPARE	10				
				11	SPACE									SPACE	12				
0.59%	45	1	L	13	CLASSROOM 86 LTG.	20	1	12	480					SPACE	14				
				15	SPACE									SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	6056	5576
25%:	120	0
SUB:	0	0
TOT:	6176	5576
AMPS	51	46

LOAD (VA)	LOAD TYPE	LEGEND
2520	R	RECEPTACLE
480	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
8632	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) LIGHTING INVERTER EMA

PANEL TYPE: ISOLITE OR ENG. APPROVED EQUAL
LOCATION: OFFICE 80B
CONTROL POWER CIRCUIT: P60A-2

RATING:	550
INPUT VOLTAGE:	120
OUTPUT VOLTAGE:	120
ENCLOSURE:	NEMA 1
MOUNTING:	SURFACE

BREAKER NO.	LOAD DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	NOTES	DIST (LF)	CKT %VD
1	EXTERIOR UNDERCANOPY LTG.	20	1	12	100		150	0.41%
2	INTERIOR EM LTG.	20	1	12	246		125	0.87%
3	SPARE							
4	SPARE							
				CON:	346			
	SEE MOUNTING DETAIL 6-X/E202			TOTAL (KVA):	346			
				AMPS:	1			

(N) LIGHTING INVERTER EMB

PANEL TYPE: ISOLITE E3MINI OR ENG. APPROVED E
LOCATION: ELECT/IDF 83A
CONTROL POWER CIRCUIT: P60B-2

RATING:	550
INPUT VOLTAGE:	120
OUTPUT VOLTAGE:	120
ENCLOSURE:	NEMA 1
MOUNTING:	SURFACE

BREAKER NO.	LOAD DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	NOTES	DIST (LF)	CKT %VD
1	EXTERIOR UNDERCANOPY LTG.	20	1	12	100		150	0.41%
2	INTERIOR EM LTG.	20	1	12	384		125	1.32%
3	SPARE	20	1					
4	SPARE	20	1					
				CON:	484			
	SEE MOUNTING DETAIL 6-X/E202			TOTAL (KVA):	484			
				AMPS:	2			

(N) PANEL P82

BUS RATING: 100A 120/208V, 1PH, 3W
MLO: 100A MAIN LUGS ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: TESTING 81C
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.29%	65		R	1	R-RM82/CALM 82A	20	1	12	720		12	2	20	FC-82 ELEC. HEATER	2	M		4	0.56%
									780										
1.04%	70		R	3	R-RM82 - TS	20	1	12		540	12	-	-	-	4	M		4	0.56%
										780									
0.97%	65		R	5	R-RM82 - TS	20	1	12	540		8	2	40	HP-82	6	M		4	1.23%
									3952										
0.59%	40		R	7	R-RM82 CONV.	20	1	12		540	8	-	-	-	8	M		4	1.23%
										3952									
0.02%	45		R	9	RR-82B	20	1	1	180		10	2	25	WH-82B	10	M		4	0.62%
									2080										
				11	SPARE	20	1			2080	10	-	-	-	12	M		4	0.62%
1.42%	100	1	L	13	SPED2/CALM2 LTG	20	1	12	516		12	1	20	EXT. RECEPTACLES	14	R		75	0.74%
									360										
				15	SPACE									SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	9128	7892
25%:	129	0
SUB:	0	0
TOT:	9257	7892
AMPS	77	66

LOAD (VA)	LOAD TYPE	LEGEND
2880	R	RECEPTACLE
516	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
13624	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL P83

BUS RATING: 100A 120/208V, 1PH, 3W
MLO: 100A MAIN LUGS ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: CLASSROOM 83
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.97%	65		R	1	R-RM83	20	1	12	540		12	2	20	FC-83 ELEC. HEATER	2	M		4	0.56%
									780										
0.69%	70		R	3	R-RM80 - TS	20	1	12		360	12	-	-	-	4	M		4	0.56%
										780									
0.97%	65		R	5	R-RM80 - TS	20	1	12	540		10	2	35	HP-83	6	M		4	1.76%
									3536										
0.99%	40		R	7	R-RM81 CONV.	20	1	12		900	10	-	-	-	8	M		4	1.76%
										3536									
				9	SPARE	20	1				1	20		SPARE	10				
				11	SPARE	20	1							SPACE	12				
0.59%	45		L	13	CLASSROOM 83 LTG.	20	1	12	480					SPACE	14				
				15	SPACE									SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	5876	5576
25%:	120	0
SUB:	0	0
TOT:	5996	5576
AMPS	50	46

LOAD (VA)	LOAD TYPE	LEGEND
2340	R	RECEPTACLE
480	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
8632	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL P84

BUS RATING: 100A 120/208V, 1PH, 3W
MLO: 100A MAIN LUGS ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: CLASSROOM 84
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE C	PHASE A	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.97%	65		R	1	R-RM84	20	1	12	540		12	2	20	FC-84 ELEC. HEATER	2	M		4	0.56%
									780										
1.11%	75		R	3	R-RM84 - TS	20	1	12		540	12	-	-	-	4	M		4	0.56%
										780									
1.49%	75		R	5	R-RM84 - TS	20	1	12	720		10	2	35	HP-84	6	M		4	1.76%
									3536										
1.09%	55		R	7	R-RM84 CONV.	20	1	12		720	10	-	-	-	8	M		4	1.76%
										3536									
				9	SPARE	20	1				1	20		SPARE	10				
				11	SPACE									SPACE	12				
0.59%	45	1	L	13	CLASSROOM 84 LTG.	20	1	12	480					SPACE	14				
				15	SPACE									SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	6056	5576
25%:	120	0
SUB:	0	0
TOT:	6176	5576
AMPS	51	46

LOAD (VA)	LOAD TYPE	LEGEND
2520	R	RECEPTACLE
480	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
8632	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) DISTRIBUTION PANEL DP1

BUS RATING: 800A 120/208V, 3PH, 4W
MAIN: 800A MAIN CIRCUIT BREAKER
SPACES: 24 FULL SIZE BOLT-ON CB SPACES
AIC RATING: SLD KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ELEC/IDF 83A
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
			N	1	DISTRIBUTION PANEL 'DP83A'	800	3	SLD	40246			SLD	3	100	100A EXISTING LOADS	2	N			
			N	3	-	-	-	SLD		39127		SLD	-	-	-	4	N			
			N	5	-	-	-	SLD			34853	SLD	-	-	-	6	N			
			N	7	SPACE PROVISION	225	3	-				-	3	225	SPACE PROVISION	8				
			N	9	-	-	-	-				-	-	-	-	10				
			N	11	-	-	-	-				-	-	-	-	12				
				13												14				
				15												16				
				17												18				
				19												20				
				21												22				
				23												24				

CON:	40246	39127	34853
25%:	0	0	0
SUB:	0	0	0
114226 TOT:	40246	39127	34853
AMPS	335	326	290

LOAD (VA)	LOAD TYPE	LEGEND
0	R	RECEPTACLE
0	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
0	K	KITCHEN APPLIANCE
114225.75	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL DP60

BUS RATING: 400A 120/208V, 3PH, 4W
MAIN: 400A MAIN CIRCUIT BREAKER
SPACES: 54 FULL SIZE BOLT-ON CB SPACES
AIC RATING: TBD KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ELEC/IDF 83A
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
			N	1	PANEL P80	100	2	SLD	7736			SLD	2	100	PANEL 'P83'	2	N			
			N	3	-	-	-	-		6686		-	-	-	-	4	N			
										5576										
			N	5	PANEL P81	100	2	SLD			8612	SLD	2	100	PANEL 'P84'	6	N			
											5576									
			N	7	-	-	-	-	8432			-	-	-	-	8	N			
									5576											
			N	9	PANEL P82	100	2	SLD			8612	SLD	2	100	PANEL 'P85'	10	N			
											5576									
			N	11	-	-	-	-			7892	-	-	-	-	12	N			
											5576									
0.20%	20		R	13	ELEC/IDF 83A	20	1	12	360			SLD	2	100	PANEL 'P86'	14	N			
									5576											
0.15%	15		R	15	DATA RACK	20	1	12		360		-	-	-	-	16	N			
										5576										
0.17%	25		R	17	RR 83B	20	1	12			250	12	1	20	INVERTER 'EMB'	18	L	1.2	5	0.05%
											360									
0.34%	50		R	19	RR83C	20	1	12	250			10	2	25	WH-83B	20	M		40	0.83%
									2080											
0.04%	15	3	R	21	FA C/RCUIT	20	1	12		100		10	-	-	-	22	M		40	0.83%
										2080										
2.23%	150		R	23	EXT. RECEPTACLES	20	1	12			540	10	2	25	WH-83C	24	M		45	0.93%
											2080									
				25	SPARE	20	1		2080			10	-	-	-	26	M		45	0.93%
				27	SPACE							1	20		SPARE	28				
				29	SPACE							1	20		SPARE	30				
				31	SPACE							12	1	20	OUTDOOR CONTROLLER	32	N		15	0.62%
				33	SPACE					50		12	2	25	HP-83A	34	M	4	10	0.38%
				35	SPACE						2392	12	-	-	-	36	M	4	10	0.38%
				37	SPACE										SPACE	38				
				39	SPACE										SPACE	40				
				41	SPACE										SPACE	42				

CON:	37536	36928	33303
25%:	0	0	96
SUB:	0	0	0
107883 TOT:	37536	36928	33399
AMPS	313	308	278

LOAD (VA)	LOAD TYPE	LEGEND
1860	R	RECEPTACLE
385	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
13104	M	MECHANICAL
0	K	KITCHEN APPLIANCE
92418	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL P80

BUS RATING: 200A 120/208V, 3PH, 4W
MAIN: 200A MAIN CIRCUIT BREAKER
SPACES: 42 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ELEC/IDF 83A
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.29%	65		R	1	R-RM80	20	1	12	720			12	2	20	FC-80 ELEC. HEATER	2	M	4	45	0.56%
									780											
1.04%	70		R	3	R-RM80 - TS	20	1	12		540		12	-	-	-	4	M	4	45	0.56%
										780										
0.97%	65		R	5	R-RM80 - TS	20	1	12			540	10	2	35	HP-80	6	M	4	50	1.76%
											3536									
0.79%	40		R	7	R-RM81 CONV.	20	1	12	720			10	-	-	-	8	M	4	50	1.76%
									3536											
				9	SPARE	20	1	12			9230	SLD	2	100	P81	10	N			
1.04%	35		R	11	BREAK CLASSROOM 80B	20	1	12			1080	SLD	-	-	-	12	N			
											8612									
1.34%	45		R	13	BREAK CLASSROOM 80C	20	1	12	1080			SLD	2	100	P82	14	N			
									9257											
1.20%	129	1	L	15	BREAKOUT CLASSRM/INTERVENTION	20	1	12			348	SLD	-	-	-	16	N			
											8612									
0.74%	25		R	17	BREAK CLASSROOM 80A	20	1	12				1080				SPACE	18			
0.43%	35	1.2	L	19	INVERTER 'EMA'	20	1	12	446							SPACE	20			
1.16%	200	1.2	L	21	EXTERIOR LTG.	20	1	12		210						SPACE	22			
				23	SPACE											SPACE	24			
				25	SPACE											SPACE	26			
				27	SPACE											SPACE	28			
				29	SPACE											SPACE	30			
				31													32			
				33													34			
				35													36			
				37													38			
				39													40			
				41													42			

CON:	16539	19720	14848
25%:	112	140	0
SUB:	0	0	0
51358 TOT:	16651	19859	14848
AMPS	139	165	124

LOAD (VA)	LOAD TYPE	LEGEND
8760	R	RECEPTACLE
1004	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
8632	M	MECHANICAL
0	K	KITCHEN APPLIANCE
35710.5	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

PANEL SCHEDULE NOTES

1. LONG CONTINUOUS LOAD (LCL). ADDITIONAL 25% ADDED AT BOTTOM OF PANEL. FEEDER CALCULATED AT 125% OF TOTAL CONNECTED LOAD.
2. ROUTE BRANCH CIRCUIT THROUGH EXTERIOR LIGHTING CONTROLS. SEE CONTROL DIAGRAM.
3. PROVIDE RED HANDLE AND LOCKING DEVICE ON THIS CIRCUIT BREAKER AND LABEL "FIRE ALARM CIRCUIT" TO MEET 2022 NFPA 72, SECTION 10.6.5.2, AND 2022 CFC/CBC SECTION 907 REQUIREMENTS.
4. VERIFY LOAD, CB AND CONDUCTOR SIZE WITH EQUIPMENT.
5. SEE SINGLE LINE DIAGRAM FOR CONDUCTOR SIZE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

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EXPIRES: 09/30/26
THOMA #25-8049

thoma ENGINEERING
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ELECTRICAL SCHEDULES

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

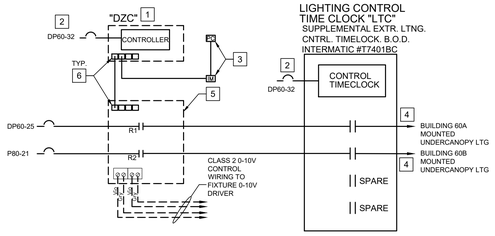
REVISIONS

NO.	ITEM	DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E0.03

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DIGITAL ZONE CONTROLLER SCHEDULE "DZC" WATTSTOPPER LMZC-301	NEMA 1 ENCLOSURE
LOCATED: ELECT/IDF 83A CONTROL POWER CIRCUIT: DP60-32 CONNECT TO EXTERIOR LIGHTING ROOM CONTROLLER (LMRC-212) VIA WATTSTOPPER LMRJ CABLE	FLUSH _ SURFACE X

RELAY NO.	INPUT VA	CIRCUIT NO.	LOAD DESCRIPTION	SCHEDULED CONTROL DESCRIPTION	NOTES
R1	100	EMA-1	BLDG 60A UNDERCANOPY EM LTG	DUSK ON / TIMECLOCK OFF	1-4
R2	100	EMB-1	BLDG 60B UNDERCANOPY EM LTG	DUSK ON / TIMECLOCK OFF	1-4

NOTES:
1. PROGRAM RELAY FOR DUSK 'ON' WITH PROGRAMMED 'OFF' PER OWNER TIME SCHEDULE.
2. PROGRAM RELAY FOR DUSK TO DAWN (NIGHT LIGHT) OPERATION.
3. PROGRAM RELAY TO DIM TO 50% WHEN UNOCCUPIED AND 100% WHEN OCCUPIED.
4. EXTEND 0-10V WIRES TO FIXTURE(S) FOR DIMMING CONTROL CAPABILITY.

* INCLUDE EXTERIOR PHOTOCELL (WATTSTOPPER LMPO-200 WITH CONNECTION TO WATTSTOPPER PHOTOCELL INPUT MODULE LMIO-301) INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATION TO CONTROL DUSK TO DAWN, AND DUSK TO TIME CLOCK OFF OPERATIONS.
* PROVIDE LOW VOLTAGE OVERRIDE SWITCH ADJACENT TO PANEL WITH WEATHER PROOF LOCKABLE COVER. PROGRAM SWITCH FOR 2-HOUR OVERRIDE OF ALL EXTERIOR LIGHTING RELAYS. LABEL SWITCH "OVERRIDE".

4 EXTERIOR LIGHTING CONTROL DIAGRAM
NTS

☐ REFERENCE NOTES

1. DIGITAL ZONE CONTROLLER "DZC" WITH INTEGRAL ASTRONOMICAL TIME CLOCK PER CALIFORNIA ENERGY CODE (CEnC 130.2(c)1 & 2). PROGRAM PER OWNER AND TITLE 24 REQUIREMENTS. SEE PANEL SCHEDULE ON THIS SHEET.
2. DEDICATED CIRCUIT TO CONTROLLER(S) POWER SUPPLY.
3. PROVIDE NEW PHOTOCELL (WATTSTOPPER LMPO-200) AT ROOF. (ORIENT WINDOW NORTH). PROVIDE 1/2"C DOWN TO PHOTOCELL INPUT MODULE (LMIO-301) WITH (2)#18 AWG, THEN PROVIDE LMRJ CABLE CONNECTION BETWEEN PHOTOCELL INPUT MODULE AND DIGITAL ZONE CONTROLLER "DZC".
4. TO LIGHTING FIXTURES, SEE SITE PLAN AND FLOOR PLANS.
5. DEDICATED EXTERIOR LIGHTING ROOM CONTROLLER (WATTSTOPPER LMRC-212, EQUIPPED WITH TWO 0-10V RELAYS FOR SWITCHING AND DIMMING CAPABILITY TO SATISFY CEnC 130.2(c)2.A & B). CONNECT TO WATTSTOPPER DLM ZONE CONTROLLER (LMZC-301; LOCATION PER LIGHTING FLOOR PLAN) TO ENABLE SCHEDULED EVENTS AND ASTRONOMICAL TIME CLOCK CONTROL OF EXTERIOR LUMINAIRES. ROOM CONTROLLER REQUIRES CONSTANT HOT INPUT.
6. RJ45 PORTS FOR CONNECTION OF DEVICES TO WATTSTOPPER DLM NETWORK VIA LMRJ SERIES PRE-TERMINATED CABLES OR CAT5E.

LUMINAIRE SCHEDULE

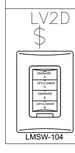
for BRANCH ELEMENTARY SCHOOL KINDERGARTEN CLASSROOM

T&M 23-8005

TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	TOTAL INPUT WATTS (W)	LAMP TYPE	NOMINAL LUMEN OUTPUT (L)	LAMP COLOR TEMP (K)	MOUNTING TYPE	WEIGHT (LBS)	DESCRIPTION	REMARKS
A1/ A1EM		LITHONIA LIGHTING	2BLT2-33L-ADP-MVOLT-GZ10-LP840 A1BEM: ADD "E"	MVOLT	27	LED	3385	4000	RECESSED 3/E-402	4.1	2'X2' LED TROFFER RECESSED, STANDARD 0-10V DIMMING.	
A2/ A2EM		LITHONIA LIGHTING	2BLT2-40L-ADP-MVOLT-GZ10-LP840 A1BEM: ADD "E"	MVOLT	31	LED	4000	4000	RECESSED 3/E-402	4.1	2'X2' LED TROFFER RECESSED, STANDARD 0-10V DIMMING.	
A3/ A3EM		LITHONIA	2BLT4-60L-ADP-GZ10-LP840 EM: EM10WLCP	120/277	48	LED	6112	4000	RECESSED 3/E-402	17	2'X4' LED TROFFER WITH CURVED, RIBBED DIFFUSER, 0-10V DIMMING TO 10%.	
C1/ C1EM		LITHONIA	STL4-40L-GZ10-LP840 EM: E10WLCP	120/277	35	LED	3979	4000	SURFACE X/EXXX	13	1'X4' LED SURFACE WRAP WITH 0-10V DIMMING TO 10% AND WHITE FINISH.	
C2/ C2EM		LITHONIA	BLWP2-20L-ADP-GZ10-LP835 EM: E10WLCP	120/277	17	LED	1942	3500	SURFACE X/EXXX	5	6"X 2' LED SURFACE WRAP WITH 0-10V DIMMING TO 10% AND WHITE FINISH.	
D1		LITHONIA	LDN4-40/07-L04-AR-LSS-TRW MVOLT-GZ10-	120/277	9	LED	751	4000	RECESSED X/EXXX	5	4" DIAMETER, LED DOWNLIGHT WITH CLEAR TRIM, SEMI SPECULAR TRIM FINISH, WHITE PAINTED FLANGE AND 0-10V DIMMING TO 10%	
S1/ S1EM		EXO LIGHTING	LNC2-48L-20-4K7-3-UNV-DBT EM: E	120/277	20	LED	2234	4000	SURFACE 6/E004	10	LED WALL PACK WITH TYPE 3 DISTRIBUTION AND DARK BRONZE MATTE TEXTURED FINISH.	CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING. B-0, U-0, G-1.
S2/ S2EM		KENALL LIGHTING	MS15FD-PP-MW-25L40K-DV EM: LEL	120/277	30	LED	3258	4000	SURFACE 6/E004	18	LED UNDER CANOPY LUMINAIRE WITH FULL FACE, 0-10V DIMMING TO 1% AND WHITE MATTE FINISH. WET LOCATION LISTED.	CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING. B-1 U-3 G-1
S3EM		LITHONIA	LDN6-40/20-L06-AR-LSS-TRW MVOLT-GZ10-E10WCP	120/277	23	LED	2006	4000	RECESSED X/EXXX	5	6" DIAMETER, LED DOWNLIGHT WITH CLEAR TRIM, SEMI SPECULAR TRIM FINISH, WHITE PAINTED FLANGE AND 0-10V DIMMING TO 10%	CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING.
X1EM		LITHONIA	LE-S-W-1-R-EL N	120/277	2	LED	N/A	N/A	SURFACE 6/E004	5	LED EMERGENCY EXIT SIGN, 90-MINUTE BATTERY OPERATION (CA T20 COMPLIANT), WHITE HOUSING, SINGLE SIDED WHITE FACE, RED LETTERS.	MOUNT PER MANUFACTURER'S RECOMMENDATIONS

NOTES
- LUMINAIRE SUPPLIED VOLTAGE TO BE VERIFIED BY ELECTRICAL CONTRACTOR.
- WHERE NOT SPECIFIED; FINISHES TO BE VERIFIED WITH ARCHITECT.

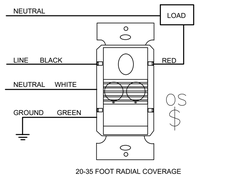
1 LUMINAIRE SCHEDULE
NTS

SWITCH TYPE	ENGRAVING	ZONES CONTROLLED	BUTTON PROGRAM	FUNCTION	APPLICABLE ROOMS
LV1D  LMDM-101	RAISE	REFER TO FLOOR PLAN	ON/RAISE	PRESS & HOLD FOR RAISE	CLASSROOMS
	LOWER	REFER TO FLOOR PLAN	OFF/LOWER	PRESS & HOLD FOR LOWER	

SWITCH TYPE	ENGRAVING	ZONES CONTROLLED	BUTTON PROGRAM	FUNCTION	APPLICABLE ROOMS
LV2D LMSW-104	RAISE	REFER TO FLOOR PLAN	ON/RAISE	PRESS & HOLD FOR RAISE	CLASSROOMS
	LOWER	REFER TO FLOOR PLAN	OFF/LOWER	PRESS & HOLD FOR LOWER	
	RAISE	REFER TO FLOOR PLAN	ON/RAISE	PRESS & HOLD FOR RAISE	
	LOWER	REFER TO FLOOR PLAN	OFF/LOWER	PRESS & HOLD FOR LOWER	

5 SWITCH ELEVATIONS AND SCHEDULES
NTS

DW 100
LINE VOLTAGE
SINGLE POLE WALL OCC SENSOR
(NOTE: DW 200 SWITCH SIMILAR EXCEPT TWO-POLE WIRING CAPABLE)



20-35 FOOT RADIAL COVERAGE

LIGHTING CONTROLS SYMBOL LEGEND		
SYMBOL	PRODUCT # WATTSTOPPER (UON)	DESCRIPTION
LV1D	LMDM-101	1 CHANNEL ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
LV2D	LMSW-104	2 CHANNEL, 4 BUTTON ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
RC	LMRC-212	20 AMP, DUAL RELAY ROOM CONTROLLER WITH 0-10V DIMMING CONTROL
OS	LMDC-100	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY OCCUPANCY SENSOR
DZC	LMZC-301	DLM ZONE CONTROLLER PROVIDES TIME OF DAY AND ASTRONOMICAL FUNCTIONS, AS WELL, AS EVENT-BASED SCHEDULE ROUTINES, TO REMOTE DLM DEVICES.
PS	LMLS-500	MULTI-ZONE (3 ZONE MAX) SWITCHING AND DIMMING OPEN LOOP PHOTOSENSOR
OS	DW-100	OCCUPANCY SENSOR WALL SWITCH, SINGLE-BUTTON, LINE VOLTAGE, DUAL TECHNOLOGY, STANDARD RANGE
OS,2P	DW-200	OCCUPANCY SENSOR WALL SWITCH, TWO-BUTTON/RELAY, LINE VOLTAGE, DUAL TECHNOLOGY, STANDARD RANGE

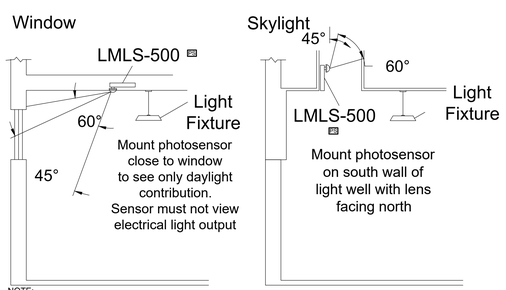
NOTES:
A. VERIFY QUANTITY OF DEVICES REQUIRED TO PROVIDE COMPLETE COVERAGE AND CONTROL PER ROOM DIMENSIONAL REQUIREMENTS AND CONTROL FUNCTIONS SHALL SHOWN ON LIGHTING PLANS AND POWER PLANS.
B. PROVIDE A SHOP DRAWING OF THE BUILDING FLOOR PLANS WITH LAYOUT OF CONTROL DEVICES.
C. PROVIDE AT LEAST (1) LMCT-100 WIRELESS CONFIGURATION TOOL ON ALL WATTSTOPPER PROJECTS.

GENERAL NOTES

1. FOR THE LIGHTING CONTROL SYSTEM; OPEN CABLE INSTALLATION OF CAT 5 IN ACCESSIBLE CEILING SPACE IS ACCEPTABLE. CONDUIT SLEEVES SHALL BE PROVIDE AT ANY AREAS WITH INACCESSIBLE OR HARD LID CEILINGS.
2. OPEN CABLE INSTALLATION OF CAT 5 IN ACCESSIBLE CEILING SPACE SHALL BE INSTALLED IN AN ORGANIZED WORKMAN LIKE MANNER WITH J-HOOKS AND/OR CABLE SUPPORTS AT 8FT O.C. MINIMUM.
3. 0-10V CONTROL CABLE SHALL BE 600V RATED #18 THWN CU, OR AS PER LIGHTING CONTROL MANUFACTURERS REQUIREMENTS. INSTALLED IN LIGHTING BRANCH CIRCUIT CONDUITS.
4. LOCATE ROOM CONTROLLER ABOVE CEILINGS IN A CONSISTENT MANNER AT EACH ROOM TYPE. TYPICALLY LOCATE THE ROOM CONTROLLERS ABOVE THE LIGHTING CONTROL SWITCH(ES).

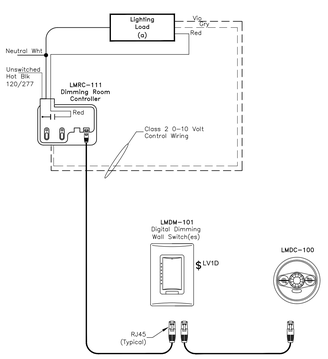
LUMINAIRE SCHEDULE NOTES

1. ILLUSTRATIONS AND/OR DIMENSIONS ARE APPROXIMATIONS ONLY INTENDED TO REPRESENT BASIC FIXTURE TYPE; DO NOT USE AS EXACT INFORMATION SOURCE. REFER TO MANUFACTURER CUT SHEETS.
2. EXACT LOCATIONS: BEFORE CONSTRUCTION, VERIFY WITH ARCHITECT EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT FIXTURES. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS AS APPLICABLE.
3. FIXTURE BRANCH CIRCUIT THROUGH-WIRING: VERIFY AND COMPLY WITH FIXTURE MANUFACTURER RESTRICTIONS AS DETERMINED BY UL. & NEC.
4. VERIFY CEILING TYPES/FINISHES FOR ALL RECESSED FIXTURES PRIOR TO FORWARDING SUBMITTALS.
5. LIGHTING FIXTURES MAY COME DIMMABLE AS A STANDARD PRODUCT, BUT MAY NOT NECESSARILY BE USED IN DIMMING APPLICATIONS. WHEN USED IN DIMMING APPLICATIONS, PROVIDE COMPATIBLE DIMMING EQUIPMENT. REFER TO LIGHTING PLANS FOR FIXTURE DIMMING LOCATIONS.
6. ALL LIGHTING FIXTURES FURNISHED SHALL BE PROVIDED WITH AUXILIARY EQUIPMENT AS REQUIRED TO BE FULLY COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM PROVIDED (WATTSTOPPER COMPATIBLE). FOR CLARIFICATION ALL REQUIRED EQUIPMENT MAY NOT NECESSARILY BE SHOWN. CONTRACTOR TO VERIFY AND INCLUDE INFORMATION IN SUBMITTALS FOR REVIEW.
7. DESIGN SHOWN IS BASED ON ACUITY/LITHONIA BRAND PRODUCTS FOR LUMINAIRES; OWNER APPROVED EQUAL ALTERNATE MANUFACTURER (CREE LIGHTING) IS ACCEPTABLE FOR LIGHTING. LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS WATTSTOPPER; ALTERNATE MANUFACTURER NOT PERMITTED PER OWNER REQUEST.



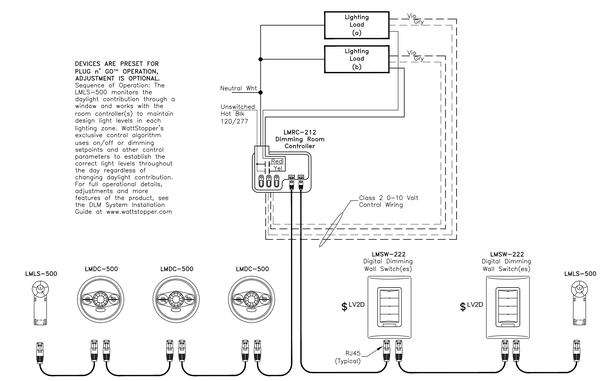
NOTE:
FOR SIDELIT APPLICATIONS, THE PHOTOSENSOR IS TYPICALLY CEILING MOUNTED BETWEEN ONE AND THREE FEET AWAY FROM THE WINDOW. REFER TO MANUFACTURER INSTALLATION INSTRUCTION FOR FURTHER INFORMATION.

6 PHOTOSENSOR PLACEMENT GUIDELINES
NTS



DEVICES ARE PRESET FOR PLUG n' GO™ OPERATION, ADJUSTMENT IS OPTIONAL. Sequence of Operation: The LMLS-500 monitors the daylight contribution through a window and works with the room controller(s) to maintain design light levels in each lighting zone. WattStopper's exclusive control algorithm uses on/off or dimming setpoints and other control parameters to establish the correct light levels throughout the day regardless of changing daylight contribution. For full operational details, adjustments and more features of the product, see the DLM System Installation Guide at www.wattstopper.com

3 TYPICAL ROOM CONTROLLER WITH 0-10V RELAY WIRING DIAGRAM
NTS



DEVICES ARE PRESET FOR PLUG n' GO™ OPERATION, ADJUSTMENT IS OPTIONAL. Sequence of Operation: The LMLS-500 monitors the daylight contribution through a window and works with the room controller(s) to maintain design light levels in each lighting zone. WattStopper's exclusive control algorithm uses on/off or dimming setpoints and other control parameters to establish the correct light levels throughout the day regardless of changing daylight contribution. For full operational details, adjustments and more features of the product, see the DLM System Installation Guide at www.wattstopper.com

2 TYPICAL ROOM CONTROLLER WITH DUAL 0-10V RELAY WIRING DIAGRAM
NTS

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

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EXPIRES: 09/30/26
THOMA #25-8049

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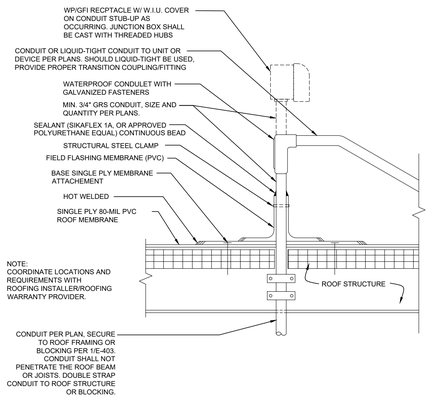
LUMINAIRE SCHEDULE

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

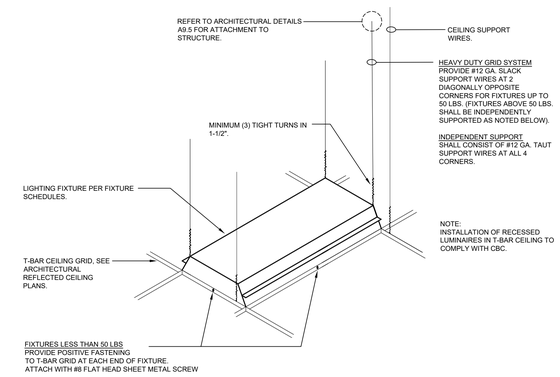
REVISIONS
NO. ITEM DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

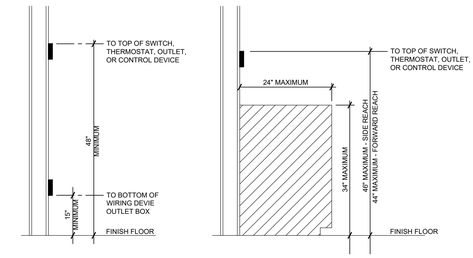
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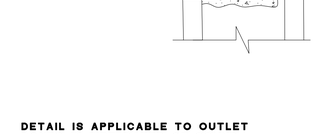
7 TYP. CONDUIT ROOF PENETRATION DETAIL
SCALE: NTS



4 TROFFER LUMINAIRE MOUNTING DETAIL - GRID
SCALE: NTS



1 TYPICAL DEVICE ACCESSIBLE MOUNTING HEIGHTS
SCALE: NTS



GENERAL NOTES

1. PLACE OUTLET BOXES IN SEPARATE STUD SPACES
2. AVOID BACK-TO-BACK OUTLETS WHEREVER POSSIBLE.
3. PLUG ALL UNUSED KNOCK-OUTS IN OUTLET BOXES WITH KNOCK-OUT CAPS.
4. BACKING EQUIPMENT TO BE "LOWRY'S" OUTLET BOX PADS, OR APPROVED EQUAL.
5. DEPTH OF OUTLET BOX MUST BE COMPATIBLE WITH STUD SIZE IN ORDER TO ACCOMMODATE BOX PAD.
6. ACOUSTICAL BOX PAD REQUIREMENT APPLIES TO ALL PARTITIONS WITH ACOUSTICAL INSULATION.
7. INSTALLATION IS TYPICAL FOR ALL OUTLET / BACKBOXES PROVIDED FOR ALL SYSTEMS.

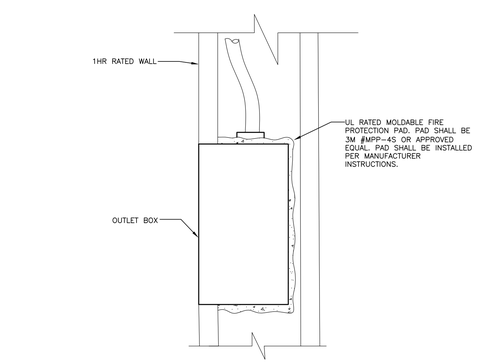
8 TYP. DEVICE SEPARATION - SOUND RATED PARTITIONS
SCALE: NTS

☐ REFERENCE NOTES

1. CEILING MATERIAL
2. FRAMING ABOVE OR BLOCKING BETWEEN AS REQUIRED.
3. RECESSED HOUSING WITH EXPANDABLE MOUNTING BARS.
4. FIXTURE TRIM
5. OUTLET BOX / BRANCH CIRCUIT
6. ATTACH TO FRAMING WITH #8x1-1/2" WOOD SCREWS. TOTAL (4) PER FIXTURE.

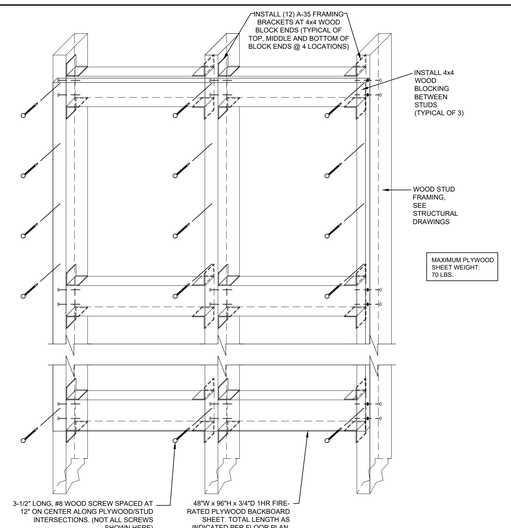
5 RECESSED DOWNLIGHT MOUNTING DETAIL
SCALE: NTS

2 TYP. TELECOM GROUND BAR
SCALE: NTS

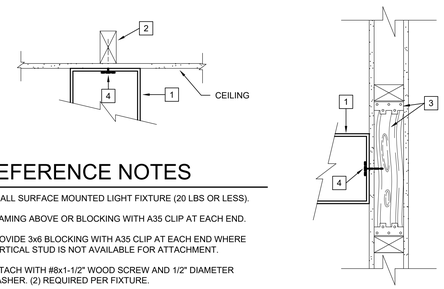


DETAIL IS APPLICABLE TO OUTLET BOXES IN FIRE RATED OR SOUND RATED WALL ASSEMBLIES.

9 DEVICE IN SOUND OR FIRE RATED ASSEMBLY DETAIL
SCALE: NTS



6 VOICE/DATA "MTTB" BACKBOARD MOUNTING
SCALE: NTS



☐ REFERENCE NOTES

1. SMALL SURFACE MOUNTED LIGHT FIXTURE (20 LBS OR LESS).
2. FRAMING ABOVE OR BLOCKING WITH A35 CLIP AT EACH END.
3. PROVIDE 3x6 BLOCKING WITH A35 CLIP AT EACH END WHERE VERTICAL STUD IS NOT AVAILABLE FOR ATTACHMENT.
4. ATTACH WITH #8x1-1/2" WOOD SCREW AND 1/2" DIAMETER WASHER. (2) REQUIRED PER FIXTURE.

3 TYP. SURFACE MOUNTED LIGHT FIXTURE MOUNTING DETAIL
SCALE: NTS

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LUCIA MAR UNIFIED SCHOOL DISTRICT

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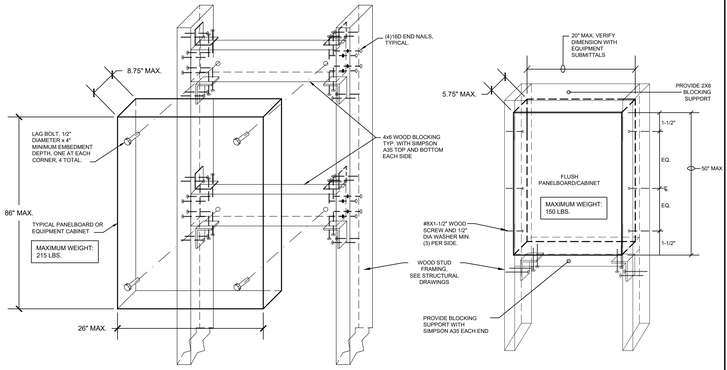
NO.	ITEM	DATE

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PROJECT NO: 24149
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NOTES (APPLIES TO BOTH DETAILS):

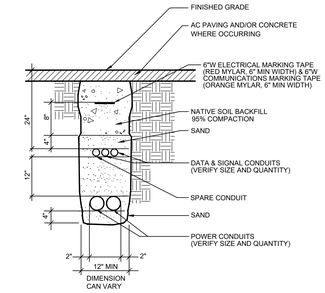
1. REFER TO ARCHITECTURAL DETAIL 1/A-921 FOR BACKING AND FRAMING CONNECTION DETAILS AT PANELBOARD LOCATION.
2. ALL SCREWS SHALL BE INSTALLED INTO PRE-DRILLED LEAD HOLES
3. SQUARE D NQ/NF PANEL OSP-0016-10



SURFACE MOUNT **FLUSH MOUNT**

4 TYP. SURFACE & FLUSH MOUNTED ENCLOSURE/CABINET MOUNTING

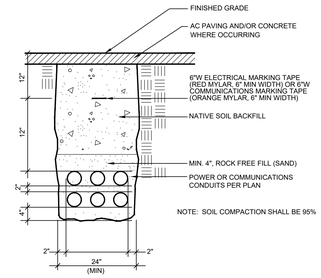
SCALE:



NOTES:
- CONDUITS SHOWN ARE TYPICAL. VERIFY EXACT NUMBER OF CONDUITS FROM SITE PLAN AND SINGLE LINE DIAGRAM.
- REFER TO DETAIL 5/E0.07 FOR CONDUIT CLEARANCE REQUIREMENTS TO BUILDING FOOTINGS.
- WHEN POWER IS NOT BELOW COMMUNICATIONS, 12" MIN. HORIZONTAL SEPARATION SHALL BE MAINTAINED FROM ALL OTHER NEW UTILITY CONDUITS.

1 JOINT & SINGLE UTILITY TRENCH

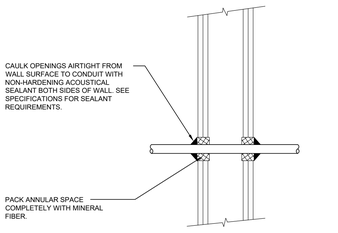
SCALE:



NOTE: SOIL COMPACTION SHALL BE 95%

NOTES:
- CONDUITS SHOWN ARE TYPICAL. VERIFY EXACT NUMBER OF CONDUITS FROM SITE PLAN AND SINGLE LINE DIAGRAM.
- REFER TO DETAIL 5/E0.07 FOR CONDUIT CLEARANCE REQUIREMENTS TO BUILDING FOOTINGS.

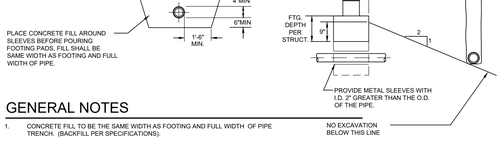
STUD WALL



NOTE:
- NO MULTIPLE CONDUIT PENETRATIONS ALLOWED. PACK AND CAULK EVERY CONDUIT INDIVIDUALLY.
- THIS DETAIL DOES NOT SATISFY THE REQUIREMENTS FOR FIRE RATING. EC SHALL REFER TO 9/E0.06 FOR APPROPRIATE FIRE RATING PENETRATION DETAIL.

8 SEALED CONDUIT PENETRATION

SCALE:



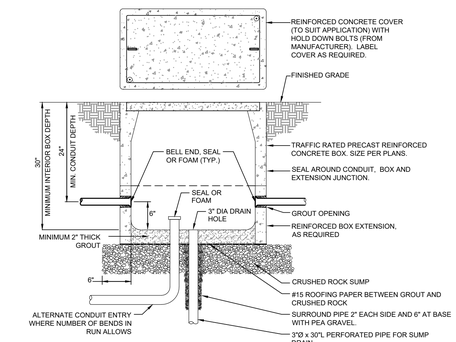
GENERAL NOTES

1. CONCRETE FILL TO BE THE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH. (BACKFILL PER SPECIFICATIONS).
2. CENTER PIPE IN PVC OR GALVANIZED METAL SLEEVE THAT HAS A MIN. I.D. 2" GREATER THAN THE PIPES O.D.
3. WATERPROOF OPENING AROUND PIPE PER GENERAL SPECIFICATIONS.
4. COORDINATE INSTALLATION WITH STRUCTURAL ENGINEER.

5 TYPICAL CONDUIT NEAR/THRU FOOTING DETAIL

SCALE:

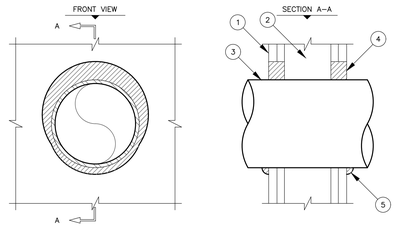
NOTES:
1. PULL BOXES SHALL BE INTERMITTENT TRAFFIC RATED.
2. PULLBOXES CONSTRUCTED OF REINFORCED POLYMER WITH TRAFFIC RATING ARE ACCEPTABLE.



2 TYPICAL PULL BOX DETAIL, 17" X 30" OR SMALLER

SCALE: NTS

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ FT.
L-RATING AT 400°F = LESS THAN 1 CFM/SQ FT.

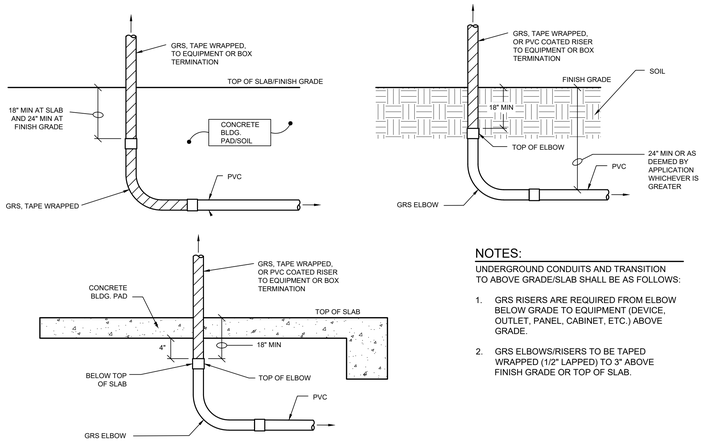


1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN), WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 30" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" NOMINAL DIAMETER CAST IRON OR DUCTILE IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE OR TUBING.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. HILTI CP 606 FLEXIBLE FIRESTOP SEALANT:
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
5. MINIMUM 1/2" BEAD HILTI CP 606 FLEXIBLE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 32".
2. ANNULAR SPACE IN 1-HR. WALLS = MINIMUM 0", MAXIMUM 1".
3. ANNULAR SPACE IN 2-HR. WALLS = MINIMUM 0", MAXIMUM 2".
4. PENETRANT MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.

9 METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

SCALE: UL/cUL SYSTEM NO. W-L-1297

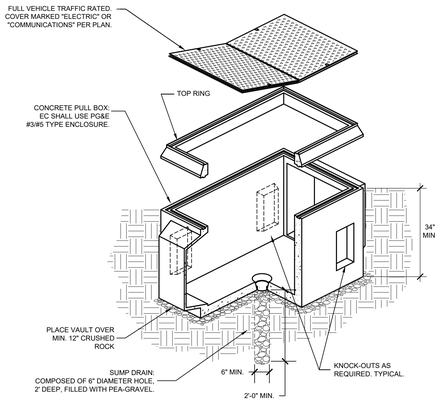


NOTES:
UNDERGROUND CONDUITS AND TRANSITION TO ABOVE GRADE/SLAB SHALL BE AS FOLLOWS:

1. GRS RISERS ARE REQUIRED FROM ELBOW BELOW GRADE TO EQUIPMENT (DEVICE, OUTLET, PANEL, CABINET, ETC.) ABOVE GRADE.
2. GRS ELBOWS/RISERS TO BE TAPED WRAPPED (1/2" LAPPED) TO 3" ABOVE FINISH GRADE OR TOP OF SLAB.

6 UNDERGROUND CONDUITS AND TRANSITION TO ABOVE GRADE/SLAB

SCALE:



3 ELECTRICAL/COMMUNICATIONS VAULT

SCALE:

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LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

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PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E0.07

PORTABLE SYSTEM KIT

TWO SETS OF ASSISTED LISTENING SYSTEMS SHALL BE STORED IN A DESIGNATED AREA (COORDINATE WITH DISTRICT) AND SHARED AS NECESSARY TO COMPLY WITH EACH CLASSROOM AREA REQUIRING ASSISTED LISTENING SYSTEMS (ALS). PORTABLE SYSTEM SHALL BE MANUFACTURED BY WILLIAMS SOUND:

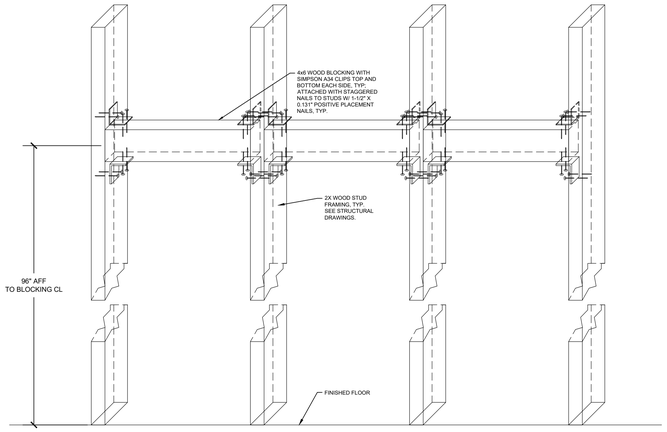
(2) FM ADA KIT 37 - EACH KIT CONSISTS OF THE FOLLOWING COMPONENTS:

A. (1) PPA T46 TRANSMITTER
B. (4) PPA R37 RECEIVERS
C. (4) HED 027 HEADPHONES
D. (1) MIC 090 LAPEL MIC
E. (1) MIC 049 DESKTOP CONFERENCE MIC
F. (1) CCS 029 CARRY CASE
G. (2) NKL 001 NECKLOOPS (HEARING AID COMPATIBLE)
H. (5) BAT 001-2 AA ALKALINE BATTERIES
I. IDP 008 ADA WALL PLAQUE (<-- EC SHALL COORDINATE TO WALL-MOUNT ON EACH ROOM)

REFER TO ARCHITECTURAL SHEETS FOR ALS SIGNAGE REQUIREMENTS.

5 ASSISTED LISTENING COMPONENT LISTS

SCALE: NTS

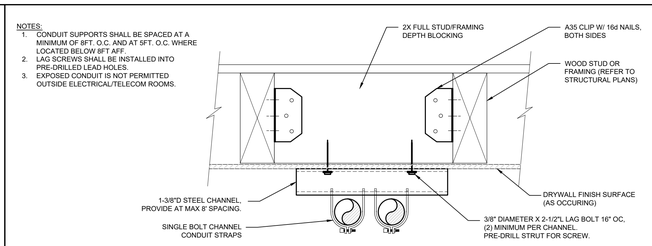


2 BLOCKING FOR TELEVISION

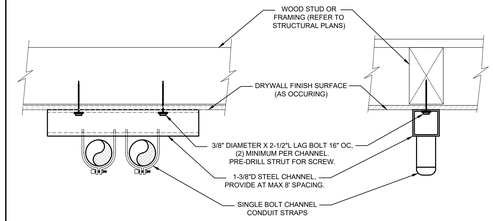
SCALE: NTS

200LBS. MAX WEIGHT

NOTES:
1. CONDUIT SUPPORTS SHALL BE SPACED AT A MINIMUM OF 8FT. O.C. AND AT 5FT. O.C. WHERE LOCATED BELOW 8FT AFF.
2. LAG SCREWS SHALL BE INSTALLED INTO PRE-DRILLED LEAD HOLES.
3. EXPOSED CONDUIT IS NOT PERMITTED OUTSIDE ELECTRICAL/TELECOM ROOMS.

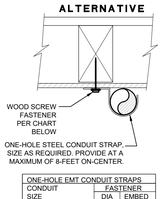


CONDUIT PARALLEL TO FRAMING



CONDUIT PERPENDICULAR TO FRAMING

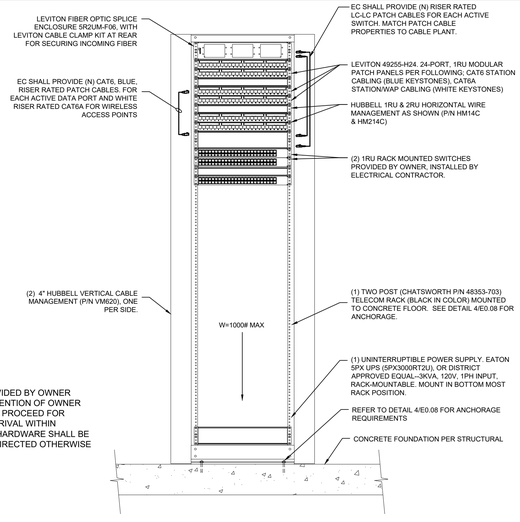
ONE HOLE STRAP ALTERNATIVE



ONE-HOLE EMT CONDUIT STRAPS		
CONDUIT SIZE:	FASTENER	
	DIA	EMBED
1/2" thru 1"	1/4"	1-1/4"
1-1/4" thru 2"	1/2"	2-1/4"

1 CONDUIT ANCHORAGE DETAILS

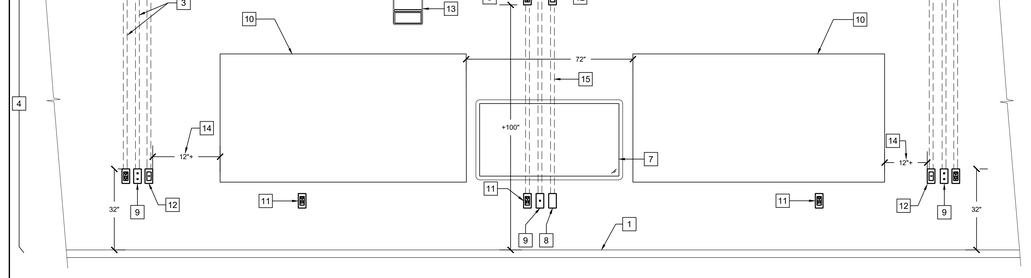
SCALE: NTS



ALL HARDWARE NOTED AS PROVIDED BY OWNER SHALL BE BROUGHT TO THE ATTENTION OF OWNER REPRESENTATIVE AT NOTICE TO PROCEED FOR SCHEDULING OF EQUIPMENT ARRIVAL WITHIN CONSTRUCTION TIMELINE. ALL HARDWARE SHALL BE INSTALLED BY THE EC UNLESS DIRECTED OTHERWISE BY OWNER.

6 2-POST TELECOM RACK EQUIPMENT

SCALE: NTS

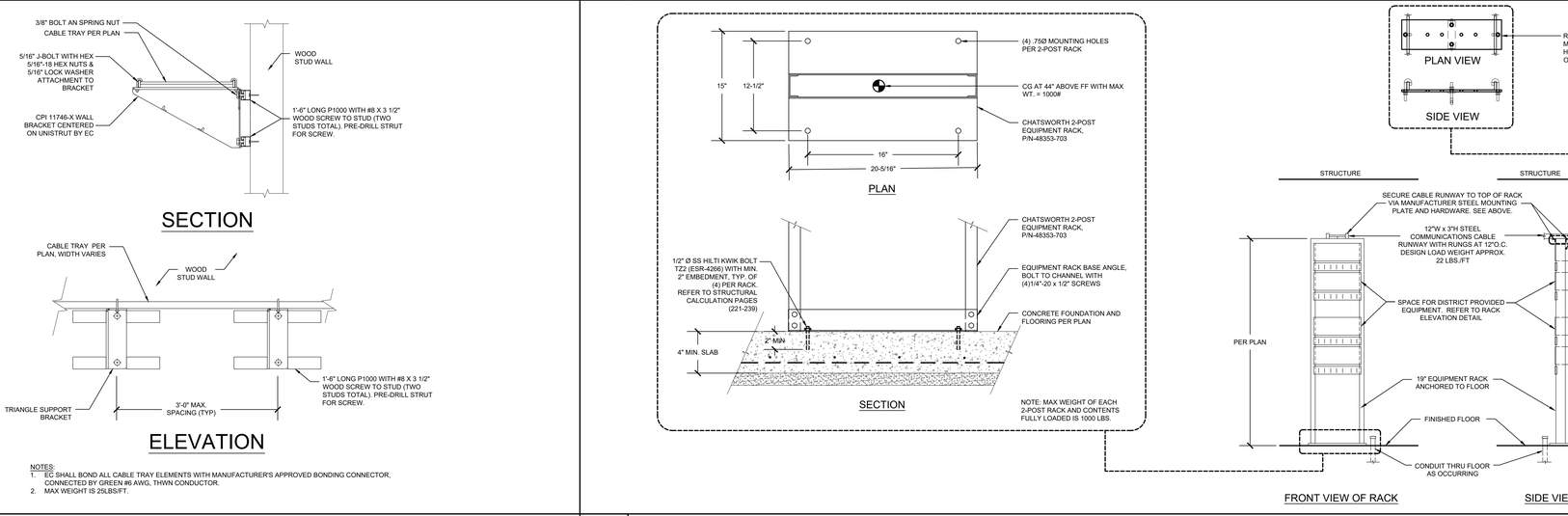


☐ REFERENCE NOTES

1. FINISHED FLOOR.
2. ACCESSIBLE CEILING SPACE.
3. (N)(2) 1-1/4" CONDUITS (LOW VOLTAGE CABLING) TO ACCESSIBLE CEILING SPACE.
4. FINISHED WALL, REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS. COORDINATE WITH OWNER PRIOR TO ROUGH-IN.
5. (N) DUPLEX RECEPTACLE PROVIDED BEHIND TELEVISION. EXACT LOCATION TO BE COORDINATED PRIOR TO ROUGH-IN WITH TELEVISION MOUNTING HARDWARE AND VERIFIED WITH DISTRICT REPRESENTATIVE.
6. NOT USED.
7. TELEVISION AND TELEVISION MOUNT SHALL BE INSTALLED BY OWNER. PROVIDE BLOCKING PER DETAIL 2/E0.08.
8. 5S BACKBOX WITH SINGLE GANG MUD RING WITHOUT CABLES AND BLANK FACEPLATE.
9. DATA OUTLET IN TRUE 5S BACKBOX AS SHOWN ON PLAN. FIELD VERIFY FINAL LOCATION WITH DISTRICT REPRESENTATIVE PRIOR TO ROUGH-IN.
10. WHITE BOARDS PER ARCHITECTURAL PLANS. WHITEBOARD LOCATION IN ELEVATION VIEW DOES NOT REFLECT ACTUAL CONDITION, REFER TO ARCHITECTURAL SHEETS FOR REQUIREMENTS. CONFIRM LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
11. (N) DUPLEX RECEPTACLE MOUNTED BELOW WHITE BOARD AT 16" AFF UNLESS OTHERWISE NOTED. (+15" MINIMUM AFF TO BOTTOM OF BOX)
12. HDMI BRUSHED PASS-THROUGH 4-11/16" SQUARE BACKBOX WITH SINGLE-GANG PLASTER RING.
13. VOIP SPEAKER. 5S BOX WITH SINGLE-GANG PLASTER RING. 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE.
14. MAINTAIN 12" SEPARATION FROM WHITEBOARD EDGE. MAINTAIN 32" BOX HEIGHT (TOP OF BOX).
15. 1-1/4" C BETWEEN LOW VOLTAGE BOXES AS SHOWN.

3 RECESSED MEDIA - TEACHING WALL

SCALE: NTS



NOTES:
1. EC SHALL BOND ALL CABLE TRAY ELEMENTS WITH MANUFACTURER'S APPROVED BONDING CONNECTOR, CONNECTED BY GREEN #6 AWG, THWN CONDUCTOR.
2. MAX WEIGHT IS 25LBS/FT.

7 WALL MOUNT LADDER TRAY

SCALE: NTS

4 2-POST RACK & CABLE TRAY ANCHORAGE

SCALE: NTS

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E0.08

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:**	**(Page 7 of 9)**
	Date Prepared:	6/11/2026

J. LIGHTING ALLOWANCE: PER APPLICATION

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.*
[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:**	**(Page 4 of 9)**
	Date Prepared:	6/11/2026

H. OUTDOOR LIGHTING CONTROLS

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

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

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Exterior	Photocontrol	Provided	NA: Each Luminaire <= 40 Watts	☐	☐

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

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:**	**(Page 1 of 9)**
Project Address: 920 W Tefft Street	**Date Prepared:**	6/11/2026

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

A. GENERAL INFORMATION

01	Project Location (city)	Nipomo	04	Total Illuminated Hardscape Area (ft²)	3004
02	Climate Zone	5			
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 ● Office ● Support Areas

B. PROJECT SCOPE

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

My Project Consists of:

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

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

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

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

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:**	**(Page 8 of 9)**
	Date Prepared:	6/11/2026

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

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.	Exterior;

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:**	**(Page 5 of 9)**
	Date Prepared:	6/11/2026

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

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

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

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

02	03	04	05	06	07	08	09
	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			
Area Description	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Pedestrian Hardscape	3004	0.021	63.1	545	0.2	109	172
					Initial Wattage Allowance for Entire Site (Watts):		250
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		422

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:**	**(Page 2 of 9)**
	Date Prepared:	6/11/2026

C. COMPLIANCE RESULTS

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

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
422	+	133	+	---	+	---	+	---	OR	---	=	555	≥	410	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.

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:**	**(Page 9 of 9)**
Project Address: 920 W Tefft Street	**Date Prepared:**	6/11/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Jeffrey M. Thoma	Documentation Author Signature:
Company: Thoma Electric, Inc	Signature Date: 2026-06-11
Address: 3562 Empleo Street	CEA/ HERS Certification Identification (if applicable): E20823
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

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: Jeffrey M. Thoma	Responsible Designer Signature:
Company: Jeffrey M. Thoma	Date Signed: 2026-06-11
Address: 3562 Empleo Street	License: E20823
City/State/Zip: San Luis Obispo CA 93401	Phone:

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:**	**(Page 6 of 9)**
	Date Prepared:	6/11/2026

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
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B[1]	# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Entry 80A	Building Entrance/Exit	1	19	19	S1	20	1	20	19
							Total Design Watts for this Area:	20	
Entry 80C	Building Entrance/Exit	1	19	19	S1	20	1	20	19
							Total Design Watts for this Area:	20	
Intervention Entrty	Building Entrance/Exit	1	19	19	S2	30	1	30	19
							Total Design Watts for this Area:	30	
SPED1 Entry South 1	Building Entrance/Exit	1	19	19	S2	30	1	30	19
							Total Design Watts for this Area:	30	
SPED1 Entry South 2	Building Entrance/Exit	1	19	19	S2	30	1	30	19
							Total Design Watts for this Area:	30	
SPED2 Entry South	Building Entrance/Exit	1	19	19	S2	30	1	30	19
							Total Design Watts for this Area:	30	
SPED2 Entry East	Building Entrance/Exit	1	19	19	S1	20	1	20	19
							Total Design Watts for this Area:	20	
							Total Allowance (Watts) All Areas:		133

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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:**	**(Page 3 of 9)**
	Date Prepared:	6/11/2026

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

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

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
S1	S1	☐ Linear	20	Mfr. Spec	4	New	☐	80	NA: < 6200 lumens	☐	☐
S2	S2	☐ Linear	30	Mfr. Spec	11	New	☐	330	NA: < 6200 lumens	☐	☐
							Total Design Watts:	410			

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

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

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
NO. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8049

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

TITLE 24 COMPLIANCE DOCUMENTATION - BUILDING 060A - EXTERIOR

NEW CLASSROOMS AT DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149 DATE: V3 SUBMITTAL 06/11/26

E0.10

K:\ENG\2025\25-8049\25-8049_E0.10_T24.dwg - jchachagua - Jun 11, 2026 - 11:19am

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:** (Page 7 of 8)
	Date Prepared: 6/11/2026

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Classroom; Restrooms; Hallway;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Classroom;

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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	Date Prepared: 6/11/2026

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

NA < 4,000W subject to multilevel | See Area/Space Level Controls | ☐ | ☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Classroom	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	Included	NA: Overhang	No	☐	☐
Restrooms	Restroom	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: General Ltg < 120W	No	☐	☐
Hallway	Corridor	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: General Ltg < 120W	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		
							E-3.1		

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Classroom/Lec/Train./Voc Areas	Classroom, Lecture, or Training Vocational	0.6	3,281.2	1,968.8	No	No
Corridor Area	Corridor	0.4	92.2	36.9	No	No
Restroooms	Restroom	0.65	175.8	114.3	No	No

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:** (Page 1 of 8)
Project Address: 920 W Tefft Street	**Date Prepared:** 6/11/2026

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Nipomo	04	Total Conditioned Floor Area (ft²)	4,058
02	Climate Zone	5	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Classroom ● Office ● Support Areas

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	4058	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	4058		0	

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:** (Page 8 of 8)
Project Address: 920 W Tefft Street	**Date Prepared:** 6/11/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Jeffrey M. Thoma	Documentation Author Signature:
Company: Thoma Electric, Inc	Signature Date: 2026-06-11
Address: 3562 Empleo Street	CEA/ HERS Certification Identification (if applicable): E20823
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

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: Jeffrey M. Thoma	Responsible Designer Signature:
Company: Jeffrey M. Thoma	Date Signed: 2026-06-11
Address: 3562 Empleo Street	License: E20823
City/State/Zip: San Luis Obispo CA 93401	Phone:

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:** (Page 5 of 8)
	Date Prepared: 6/11/2026

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Offices < 250 SF	Office (<=250 square feet)	0.65	508.5	330.5	No	No
			TOTALS:	4,057.7	2,450.5	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:** (Page 2 of 8)
	Date Prepared: 6/11/2026

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	**Total Allowed** (Watts)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)		**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		2,450.5	0		= 2,450	≥	1,748	0	=	1748	COMPLIES
Unconditioned					=	≥			=		
										Controls Compliance (See Table H for Details)	COMPLIES
										Rated Power Reduction Compliance (See Table Q for Details)	

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:** (Page 6 of 8)
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Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60A	**Report Page:** (Page 3 of 8)
	Date Prepared: 6/11/2026

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A1	A1	No	NA	27	Mfr. Spec	8	No	216	☐	☐
A2	A2	No	NA	31	Mfr. Spec	6	No	186	☐	☐
A3	A3	No	NA	48	Mfr. Spec	24	No	1,152	☐	☐
C2	C2	No	NA	17	Mfr. Spec	4	No	68	☐	☐
D1	D1	No	NA	9	Mfr. Spec	14	No	126	☐	☐
							Total Designed Watts: CONDITIONED SPACES	1,748		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
NO. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8049

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

TITLE 24 COMPLIANCE DOCUMENTATION - BUILDING 060A - INTERIOR

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E0.11

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:** (Page 7 of 8)
	Date Prepared: 2/11/2026

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.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

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.	Exterior;

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:** (Page 4 of 8)
	Date Prepared: 2/11/2026

H. OUTDOOR LIGHTING CONTROLS

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

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

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Exterior	Photocontrol	Provided	NA: Each Luminaire <= 40 Watts	☐	☐

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

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:** (Page 1 of 8)
Project Address: 920 W Tefft Street	**Date Prepared:** 2/11/2026

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

A. GENERAL INFORMATION

01	Project Location (city)	Nipomo	04 Total Illuminated Hardscape Area (ft²)	5905
02	Climate Zone	5		
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 ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

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

My Project Consists of:

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

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

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

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

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:** (Page 8 of 8)
Project Address: 920 W Tefft Street	**Date Prepared:** 2/11/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Jeffrey M. Thoma	Documentation Author Signature:
Company: Thoma Electric, Inc	Signature Date: 2026-02-11
Address: 3562 Empleo Street	CEA/ HERS Certification Identification (if applicable): E20823
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

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: Jeffrey M. Thoma	Responsible Designer Signature:
Company: Jeffrey M. Thoma	Date Signed: 2026-02-11
Address: 3562 Empleo Street	License: E20823
City/State/Zip: San Luis Obispo CA 93401	Phone:

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:** (Page 5 of 8)
	Date Prepared: 2/11/2026

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

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

	01			
	"Use it or lose it" Allowance (select all that apply)			
☒ 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 Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			
Area Description	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Pedestrian Hardscape	5905	0.021	124	500	0.2	100	224
					Initial Wattage Allowance for Entire Site (Watts):		250
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		474

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:** (Page 2 of 8)
	Date Prepared: 2/11/2026

C. COMPLIANCE RESULTS

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

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results		
01		02		03		04		05	OR	06	=	07	08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
474	+	114	+	---	+	---	+	---	OR	---	=	588	≥	560	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.

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:** (Page 6 of 8)
	Date Prepared: 2/11/2026

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
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B[1]	# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name cr Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
ELEC/IDF83A Entry	Building Entrance/Exit	1	19	19	S1	20	1	20	19
							Total Design Watts for this Area:	20	
RR83C Entry	Building Entrance/Exit	1	19	19	S1	20	1	20	19
							Total Design Watts for this Area:	20	
Classroom 83 Entry	Building Entrance/Exit	1	19	19	S2	30	1	30	19
							Total Design Watts for this Area:	30	
Classroom 84 Entry	Building Entrance/Exit	1	19	19	S2	30	1	30	19
							Total Design Watts for this Area:	30	
Classroom 85 Entry	Building Entrance/Exit	1	19	19	S2	30	1	30	19
							Total Design Watts for this Area:	30	
Classroom 86 Entry	Building Entrance/Exit	1	19	19	S2	30	1	30	19
							Total Design Watts for this Area:	30	
							Total Allowance (Watts) All Areas:		114

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.*
[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:** (Page 3 of 8)
	Date Prepared: 2/11/2026

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

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

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
S1	S1	☐ Linear	20	Mfr. Spec	4	New	☐	80	NA: < 6200 lumens	☐	☐
S2	S2	☐ Linear	30	Mfr. Spec	16	New	☐	480	NA: < 6200 lumens	☐	☐
							Total Design Watts:	560			

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

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

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
NO. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8049

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

TITLE 24 COMPLIANCE DOCUMENTATION - BUILDING 060B - EXTERIOR

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E0.12

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:**	**(Page 7 of 7)**
Project Address: 920 W Tefft Street	**Date Prepared:**	2/11/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Jeffrey M. Thoma	Documentation Author Signature:
Company: Thoma Electric, Inc	Signature Date: 2026-02-11
Address: 3562 Empleo Street	CEA/ HERS Certification Identification (if applicable): E20823
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

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: Jeffrey M. Thoma	Responsible Designer Signature:
Company: Jeffrey M. Thoma	Date Signed: 2026-02-11
Address: 3562 Empleo Street	License: E20823
City/State/Zip: San Luis Obispo CA 93401	Phone:

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:**	**(Page 4 of 7)**
	Date Prepared:	2/11/2026

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Classroom	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	Included	NA: Overhang	No	☐	☐
Restrooms	Restroom	Readily Accessible	NA: Enclosed area <1005F	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Classroom/Lec/Train./Voc Areas	Classroom, Lecture, or Training Vocational	0.6	3,863.6	2,318.2	No	No
Restroooms	Restroom	0.65	214.1	139.2	No	No
Elec/Mech/Tel	Electrical Mechancial Telephone Room	0.4	160.8	64.3	No	No
		TOTALS:	4,238.5	2,521.7	See Tables J, or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:**	**(Page 1 of 7)**
Project Address: 920 W Tefft Street	**Date Prepared:**	2/11/2026

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Nipomo	04	Total Conditioned Floor Area (ft²) 4,238
02	Climate Zone	5	05	Total Unconditioned Floor Area (ft²) 0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade) 1

● Classroom ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	4238	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	4238		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:**	**(Page 5 of 7)**
	Date Prepared:	2/11/2026

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:**	**(Page 2 of 7)**
	Date Prepared:	2/11/2026

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	**Total Allowed** (Watts)		Total Designed (Watts)	Adjustments: PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)		**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	≥	(See Table F)	(See Table P)	=		
Conditioned		2,521.7	0		= 2,522	≥	2,373	0	=	2373	COMPLIES
Unconditioned					=	≥			=		
								Controls Compliance (See Table H for Details)			COMPLIES
								Rated Power Reduction Compliance (See Table Q for Details)			

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:**	**(Page 6 of 7)**
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R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Classroom; Restrooms;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Classroom;

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Dana ES New Classroom Bldg 60B	**Report Page:**	**(Page 3 of 7)**
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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A3	A3	No	NA	48	Mfr. Spec	48	No	2,304	☐	☐
C1	C1	No	NA	35	Mfr. Spec	1	No	35	☐	☐
C2	C2	No	NA	17	Mfr. Spec	2	No	34	☐	☐
							Total Designed Watts: CONDITIONED SPACES	2,373		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	☐	☐
NA < 4,000W subject to multilevel	See Area/Space Level Controls		

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TITLE 24 COMPLIANCE DOCUMENTATION - BUILDING 060B - INTERIOR

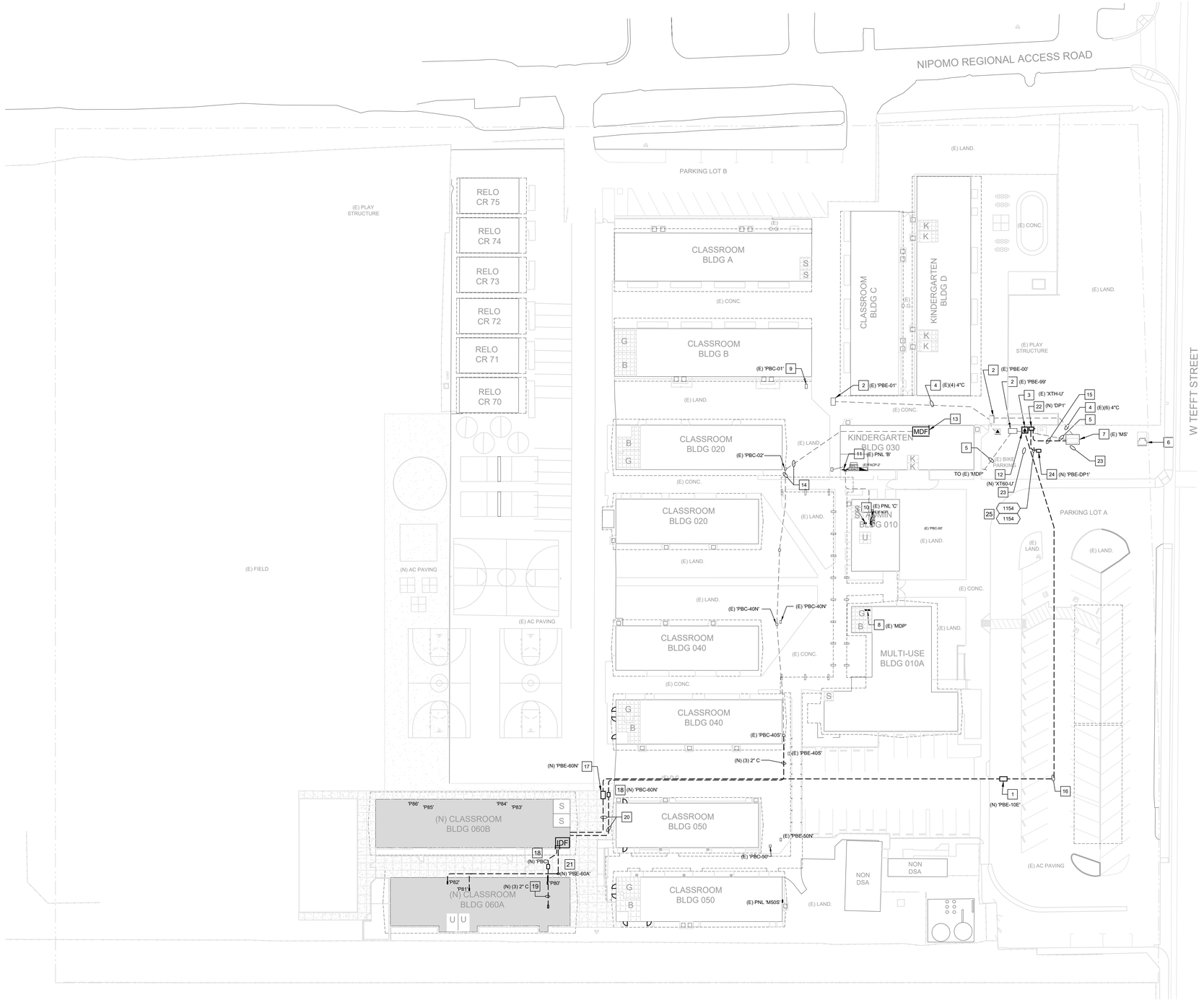
NEW CLASSROOMS AT
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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
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ELECTRICAL SITE PLAN

SCALE: 1" = 30'

NORTH

NOTE:
ROUTING SHOWN FOR ALL EXISTING UNDERGROUND CONDUITS IS APPROXIMATE. FIELD VERIFY EXISTING ROUTING AND LOCATION.

REFERENCE NOTES

1. CONTRACTRO SHALL INSTALL NEW ELECTRICAL VAULT. MINIMUM SIZE 3' X 5'.
2. (E) 3'x5' ELECTRICAL VAULT TO REMAIN. REFER TO SINGLE LINE DIAGRAM FOR ANY WORK TO TAKE PLACE INSIDE OF (E) VAULT.
3. (E) PAD MOUNTED TRANSFORMER TO REMAIN.
4. (E) UNDERGROUND ELECTRICAL FEEDER CONDUITS (SIZE AND QUANTITY AS NOTED). REFER TO SINGLE LINE DIAGRAM FOR (N) AND (E) CONTENTS.
5. (E) UNDERGROUND ELECTRICAL FEEDER TO REMAIN--NO SCOPE OF WORK.
6. (E) PG&E SERVICE TRANSFORMER TO REMAIN.
7. (E) CAMPUS MAIN ELECTRICAL SERVICE TO REMAIN. REFER TO SINGLE LINE DIAGRAM FOR WORK IN DISTRIBUTION SECTION OF GEAR.
8. (E) ELECTRICAL DISTRIBUTION PANEL 'MDP' TO REMAIN.
9. (E) COMMUNICATIONS VAULT TO REMAIN.
10. (E) ADMINISTRATION BUILDING '010' ELECTRICAL SUB-PANEL 'C' TO REMAIN.
11. (E) KINDERGARTEN BUILDING '030' ELECTRICAL SUB-PANEL 'B' TO REMAIN.
12. NEW STEP-UP TRANSFORMER. RATING AS INDICATED ON THE SINGLE LINE DIAGRAM.
13. (E) MDF IN BLDG 030 TO PROVIDE FIBER OPTIC CABLE RUN TO NEW IDF IN BLDG 060B.
14. (N) 12-STRAND OS2 FIBER OPTIC CABLE TO EXIST BETWEEN (E) 'MDF' IN BLDG 030 TO (N) "IDF" IN BLDG 060B UTILIZING (E) COMMUNICATIONS PULL BOXES AS SHOWN IN SITE PLAN AND RISER DIAGRAM.
15. CONTRACTOR SHALL EXTEND NEW FEEDER FROM SWITCHBOARD 'MS' TO NEW DISTRIBUTION PANELBOARD 'DP1'. REFER TO ELECTRICAL SCHEDULES FOR FEEDER SPECIFICATIONS.
16. CONTRACTOR SHALL EXTEND NEW FEEDER FROM NEW TRANSFORMER 'T060-U' TO TRANSFORMER LOCATED INSIDE ELECTRICAL ROOM 'T060-O'. REFER TO COPPER SCHEDULE FOR FEEDER SPECIFICATIONS. CONTRACTOR SHALL INSTALL (2) 4" C.O. FOR FUTURE IN SAME TRENCH.
17. (N) IN GROUND ELECTRIC VAULT. INSTALLED FOR NEW CLASSROOM BUILDING ADDITIONS. VAULT SHALL BE 3' X 5' AT A MINIMUM IN SIZE. IN-GROUND VAULT SHALL BE INSTALL IN NEW ASPHALT PAVING AREA.
18. (N) IN GROUND COMMUNICATIONS PULL BOX TO BE INSTALLED AT NEW CLASSROOM BUILDING ADDITIONS. SHALL BE AT MINIMUM 2' X 3' IN SIZE. PULL BOX SHALL BE INSTALLED IN NEW ASPHALT PAVING AREA.
19. HUBBEL RE4X IDF 24 SHALL BE USED AS TRANSITION BOX FOR CAT6/6A CABLES FROM OUTDOOR RATED CABLE TO RISER RATED CABLES TO DEVICE LOCATIONS.
20. CONTRACTOR SHALL INSTALL THE FOLLOWING ON TRENCH BANK FROM ELECTRICAL ROOM TO NEW PULLBOX 'PBE-60N' (POWER) & 'PBC-60N' (COMM).
    - 20.1. (1) 2-1/2" CONDUIT & (2) 3" C.O. (PWR) (2-SPARES)
    - 20.2. (3) 2" CONDUITS (COMM) (1-SPARE)
    - 20.3. (2) 2" CONDUIT (FA) (1-SPARE)
21. NEW IN-GROUND ELECTRICAL PULL BOX 'PBE-60A'. PULLBOX SHALL HAVE MINIMUM DIMENSIONS FOR 11" X 17" FOR BUILDING 060A FEEDERS.
22. NEW DISTRIBUTION PANELBOARD 'DP1'. PROVIDE WITH NEMA 3R ENCLOSURE.
23. EXISTING FEEDERS TO (E) 100A LOADS. CONTRACTOR SHALL INTERCEPT CONDUITS, INSTALL NEW PULLBOX 'PBDP1', SPLICE CONDUCTORS AND EXTEND FEEDERS TO DISTRIBUTION PANELBOARD 'DP1'. REMOVE CONDUCTORS TO 'MS', AND LEAVE CONDUITS AS SPARE FROM 'MS' TO NEW PULLBOX 'PBE-DP1'.
24. CONTRACTOR SHALL INSTALL NEW PULLBOX 2' X 3' MINIMUM DIMENSION. PULLBOX SHALL BE TRAFFIC RATED.
25. CONTRACTOR SHALL SPLICE FEEDERS IN NEW PULLBOX 'PBE-DP1' AND EXTEND NEW FEEDER FROM PULLBOX TO DISTRIBUTION PANELBOARD 'DP1'. REFER TO SINGLELINE DIAGRAM FOR FEEDER SPECIFICATION.

GENERAL SITE PLAN NOTES

A. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300-5. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WERE PERMITTED IN THE PROJECT SPECIFICATIONS.

B. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

C. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.

D. THE EXACT QUANTITY, LOCATION AND DEPTHS OF EXISTING UNDERGROUND PIPING AND CONDUITS IS UNKNOWN, FIELD VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.

E. REPAIR AND RECONNECT ALL EXISTING UNDERGROUND PIPING UNCOVERED AND DAMAGED BY NEW WORK AS REQUIRED TO MAINTAIN PROPER SYSTEM FUNCTIONS. RE-TEST ALL SYSTEMS DAMAGED BY NEW WORK.

F. SAWCUT AND PATCH ALL SURFACES TO MATCH EXISTING SURFACES (CONCRETE, AC PAVING, ETC.) AS REQUIRED FOR INSTALLATION OF NEW WORK. COMPLETE FIELD VERIFICATION OF THIS WORK IS REQUIRED BY CONTRACTOR. SAWCUT ENTIRE PANEL OUT AND REPLACE ENTIRE PANEL BETWEEN EXPANSION JOINTS(AS APPLICABLE). REFER TO ARCHITECTURAL DRAWINGS FOR DETAILED INFORMATION.

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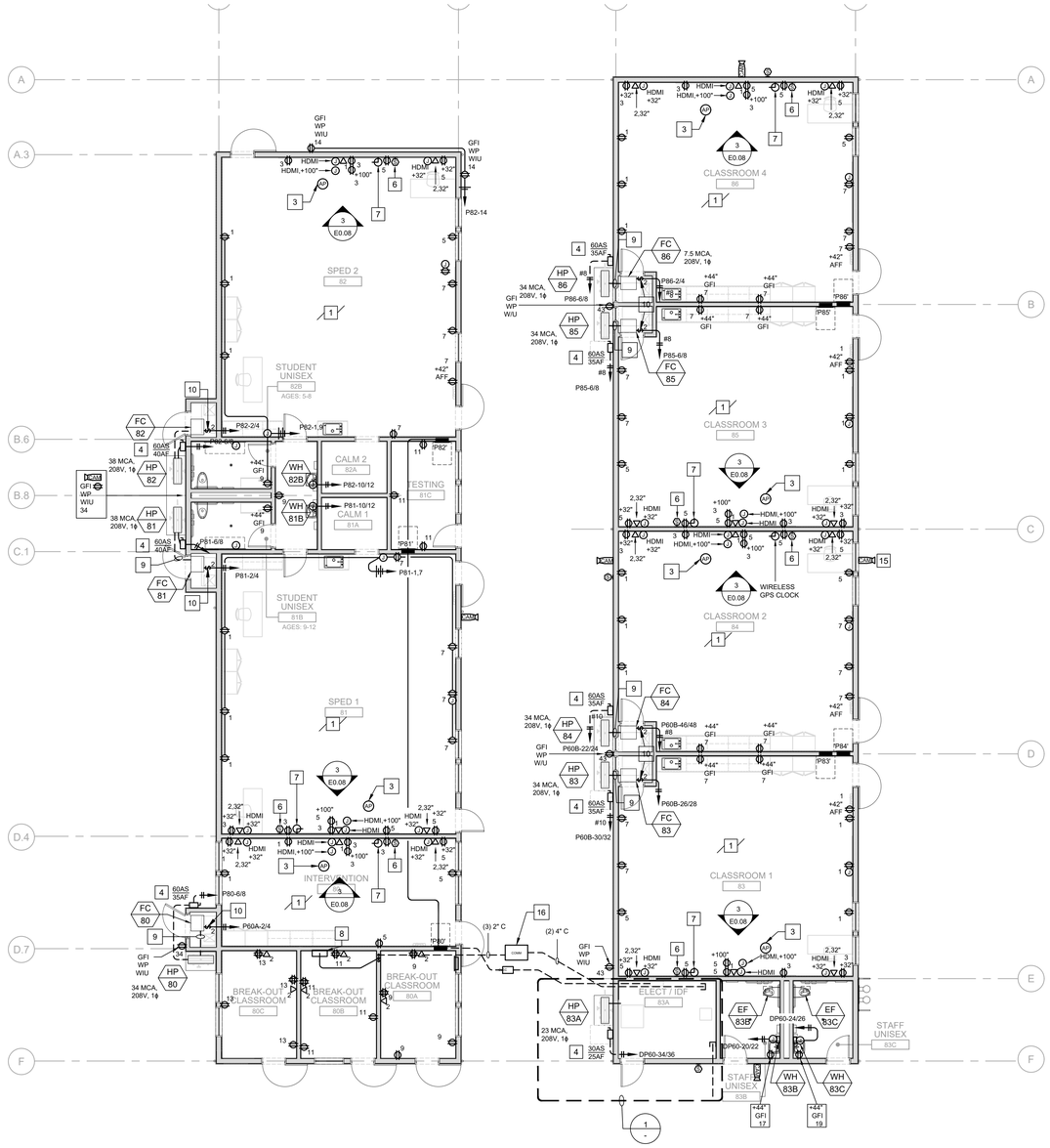
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ELECTRICAL POWER/COMM FLOOR PLAN

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

NORTH

REFERENCE NOTES

1. 1. RECEPTACLES IN THIS ROOM SHALL BE TAMER RESISTANT TYPE.
2. INTERMEDIATE DISTRIBUTION FRAME 'IDF'. PROVIDE 2-POST 19" RACK, 7'-0" TALL, 42RU IDF RACK MOUNTED TO CONCRETE FLOOR WITH 6" WIDE (FULL HEIGHT) VERTICAL WIRE MANAGEMENT MOUNTED ON EACH SIDE AS SHOWN. SEE 4/E-0.08 FOR MOUNTING REQUIREMENTS, 6/E-0.08 FOR HARDWARE REQUIREMENTS AND ELEVATION, AND COMMUNICATIONS RISER DIAGRAM SHEET E-6.1 FOR CONNECTIVITY REQUIREMENTS.
3. CEILING MOUNTED WIRELESS ACCESS POINT HARDWARE TO BE PROVIDED BY DISTRICT STAFF AND INSTALLED BY CONTRACTOR. SEE DETAILS 3 AND 4 ON SHEET E-6.1, AND TELECOMMUNICATIONS RISER DIAGRAM ON SHEET E-6.1.
4. MECHANICAL EQUIPMENT AC DISCONNECT WITH FUSES AS NOTED. PROVIDE WITH NEMA 3R ENCLOSURE.
5. PROVIDE 30A 120V TWIST-LOCK AT +15" (L5-30) DEDICATED FOR TELECOMMUNICATIONS EQUIPMENT.
6. (N) WALL MOUNTED SPEAKERS FOR INTERCOM/BELLS/PA. SPEAKER DEVICE TO BE PROVIDED BY DISTRICT STAFF; CONTRACTOR SHALL INSTALL. SPEAKER SHALL BE A MINIMUM OF 108" AFF.
7. INSTALL WIRELESS, BATTERY POWERED GPS CLOCK (OWNER SHALL FURNISH CLOCK). COORDINATE MOUNTING HEIGHT WITH DISTRICT REPRESENTATIVE.
8. HUBBELL IDF24 SHALL BE MOUNTED ABOVE CEILING AND USED AS TRANSITION BOX FOR HORIZONTAL DEVICE WIRING. IDF24 SHALL HOUSE MODULAR PATCH PANEL FOR TRANSITION FROM OSP CAT6/6A TO INDOOR RATED CAT6/6A. REFER TO RISER DIAGRAM ON SHEET E6.1.
9. OUTDOOR UNIT POWERS INDOOR UNIT. INSTALL PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.
10. CONTRACTOR SHALL PROVIDE 2-POLE SWITCH FOR ELECTRIC HEATER POWER SUPPLY. INSTALL AS PER MANUFACTURER RECOMMENDATIONS.
11. PHOTOVOLTAIC INVERTER. REFER TO SOLAR SINGLE LINE DIAGRAM ON SHEET PV0.02 FOR INVERTER RATING. INSTALL AS PER MANUFACTURER RECOMMENDATIONS.
12. PHOTOVOLTAIC DISCONNECT. REFER TO SOLAR SINGLE LINE DIAGRAM ON SHEET PV0.02 FOR DISCONNECT RATING AND REQUIREMENTS.
13. ENSURE PROPER CLEARANCE IS PROVIDED FOR INVERTER AS REQUIRED PER MANUFACTURER.
    13.1. 11.8" FROM TOP OF INVERTER.
    13.2. 8" FROM BOTTOM OF INVERTER.
    13.3. 11.8" FROM RIGHT AND LEFT OF INVERTER.
14. PROVIDE SOLAR AC DISCONNECT WITH VISIBLE BLADE AND WINDOW.
15. EXTERIOR CAMERA LOCATION. REFER TO DEVICE SCHEDULE ON SHEET E6.0.
16. (N) IN GROUND COMMUNICATIONS PULL BOX TO BE INSTALLED AT NEW CLASSROOM BUILDING ADDITIONS. REFER TO DETAIL 3/E0.07.
17. CONTRACTOR SHALL INSTALL FEEDER FROM TRANSFORMER 'XT60-D' TO NEW DISTRIBUTION PANELBOARD 'DP60' AND SHALL INSTALL (1) 4" C.O. SPARE FOR FUTURE. REFER TO SINGLELINE DIAGRAM FOR FEEDER SPECIFICATION.

GENERAL POWER PLAN NOTES

A. FUSING: ALL FUSIBLE SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL-ELEMENT TIME DELAY TYPE FUSES SIZED AND RATED PER EQUIPMENT MANUFACTURERS' RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.

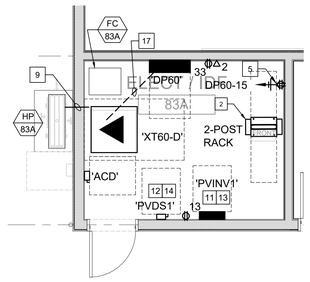
B. INSTALL SEPARATE NEUTRALS FOR EACH BRANCH CIRCUIT SERVING ISOLATED GROUND RECEPTACLES.

C. MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY NEC ARTICLE 430 PART C AND NOT SHOWN ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.

D. SPARE CONDUIT FOR RECESSED PANELS: PROVIDE (1) 3/4" SPARE CONDUIT STUB UP TO ACCESSIBLE ABOVE CEILING SPACE AND/OR ACCESSIBLE SPACE BELOW FOR EVERY (3) SPARE BREAKER SPACES AS INDICATED ON PANEL SCHEDULES.

E. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

F. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.



1 ENLARGED ELECTRICAL/IDF ROOM 83A

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

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ELECTRICAL POWERCOMM FLOOR PLAN

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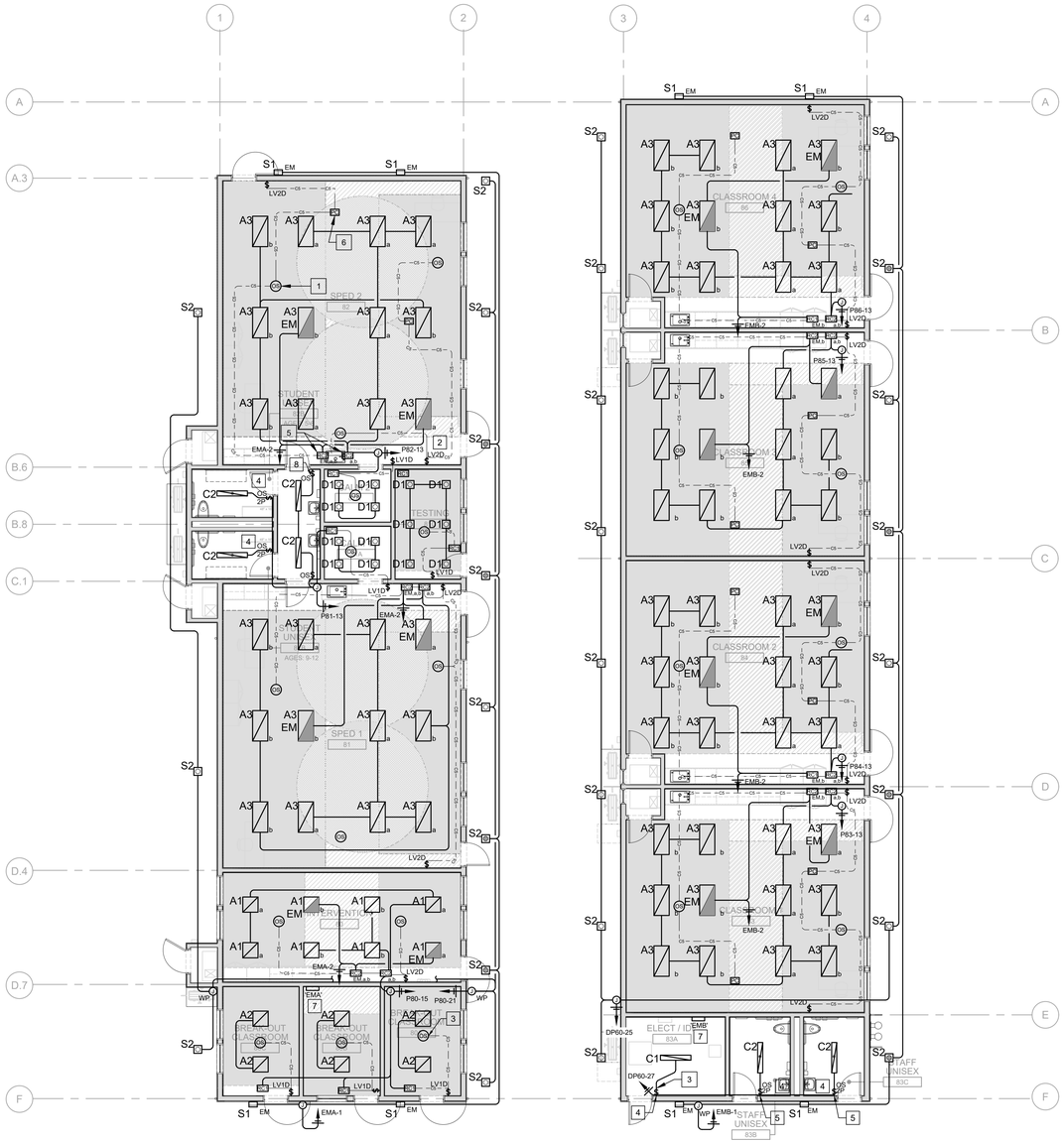
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ELECTRICAL LIGHTING/CONTROLS PLAN

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

NORTH

REFERENCE NOTES

1. CEILING MOUNT OCCUPANCY SENSOR BOD: LEGRAND WATTSTOPPER LMDC-100.
2. LOW VOLTAGE SWITCH. PROVIDE (3-WAY, 4-WAY) CONFIGURATION AS SHOWN. BASIS OF DESIGN: LEGRAND WATTSTOPPER LMSW-211 OR MS SW222. CONTRACTOR TO CONNECT TO LIGHTING CONTROL SYSTEM.
3. LINE VOLTAGE SWITCH. ELECTRICAL ROOM EXEMPT FROM SHUT OFF CONTROLS.
4. LINE VOLTAGE SWITCH W/INTEGRATED OCCUPANCY SENSOR. PROVIDE SWITCH WITH 2-POLE CONFIGURATION. POLE 'a' SHALL CONTROL LIGHTS, AND POLE "b' SHALL CONTROL EXHAUST FAN. BASIS OF DESIGN: LEGRAND PW-302-W.
5. DLM ROOM CONTROLLER. PROVIDE 1 OR 2 RELAY CONFIGURATION WITH 0-10V DIMMING. BASIS OF DESIGN: LEGRAND LMRC-111, 112, OR 212.
6. MULTI-ZONE SWITCHING AND DIMMING OPEN LOOP DIGITAL PHOTOSENSOR. PROVIDE ONE PER ZONE AS SHOWN ON PLANS. BASIS OF DESIGN: LEGRAND LMLS-500.
7. LIGHTING INVERTER. INVERTER SHALL BE UL924 LISTED AND SHALL BACKUP EMERGENCY LIGHTING FOR A MINIMUM OF 90-MINUTES. BASIS OF DESIGN: ISOLITE E3MINI. PROVIDE 550VA RATING WITH BACK MOUNT WITH 0-10V CAPABILITIES AND REMOTE DIAGNOSTICS STATUS DISPLAY PANEL.
8. LINE VOLTAGE SWITCH W/INTEGRATED OCCUPANCY SENSOR. BASIS OF DESIGN: LEGRAND DSW-301-W.

GENERAL LIGHTING PLAN NOTES

A. DUAL LEVEL SWITCHING: IN ROOMS 100 SQ. FT. OR LARGER, OR WHERE INDICATED ON PLANS, CONTROL INBOARD LAMPS BY ONE SWITCH AND OUTBOARD LAMPS BY OTHER SWITCH.

B. NIGHT LIGHT "NL" DESIGNATED LUMINAIRES IN INTERIOR LOCATIONS SHALL HAVE ONE BALLAST CONTINUOUSLY ENERGIZED. LUMINAIRES IN EXTERIOR LOCATIONS SHALL BE AUTOMATICALLY CONTROLLED TO BE ON FROM DUSK TO DAWN.

C. LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.

D. REFER TO ARCHITECT'S REFLECTED CEILING PLAN(S) FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA. VERIFY FLANGE TYPES, TRIM KITS, STEM LENGTHS, ETC. FOR ALL FIXTURES PRIOR TO SUBMITTALS.

E. CONFIRM LOCATION OF ALL DOORS SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN OF SWITCHES.

F. PROVIDE UNSWITCHED HOT LEG OF ROOM LIGHTING BRANCH CIRCUIT TO EACH BATTERY POWERED EMERGENCY LIGHT AND EXIT SIGN FOR CONTINUOUS CHARGING.

LIGHTING CONTROL GENERAL NOTES

A. CONTRACTOR TO PROVIDE COMPLETE SHOP DRAWINGS DIRECT FROM MANUFACTURER SPECIFIC TO THIS PROJECT FOR THE INTERIOR LIGHTING CONTROL SYSTEM AND USE FOR CONSTRUCTION.

B. VERIFY OCCUPANCY SENSOR SETTING FOR EACH TYPE OF ROOM WITH OWNER AND ADJUST AS DIRECTED BY OWNER.

C. VERIFY EACH RELAY PROGRAMMING WITH OWNER AND PROGRAM EACH AS DIRECTED BY OWNER.

D. PROVIDE OWNER IN SERVICE TRAINING FOR LIGHTING CONTROL SYSTEM.

E. WHERE MULTIPLE CHANNEL CONTROLS HAVE BEEN PROVIDED IN A ROOM OR SPACE, VERIFY FIXTURE ZONING REQUIREMENTS WITH OWNER PRIOR TO PRODUCING SHOP DRAWINGS AND INSTALLATION.

T24 DAYLIGHT AREAS

- SOLID SHADING DEPICTS PRIMARY SIDELIT DAYLIGHT ZONE
- DOT PATTERN SHADING DEPICTS SECONDARY SIDELIT DAYLIGHT ZONE
- CROSS HATCH SHADING DEPICTS PRIMARY SKY LIT DAYLIGHT ZONE

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San Luis Obispo, CA 93406
Phone: (805) 543-3850
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cad@thomaelec.com

ELECTRICAL LIGHTING/CONTROLS PLAN

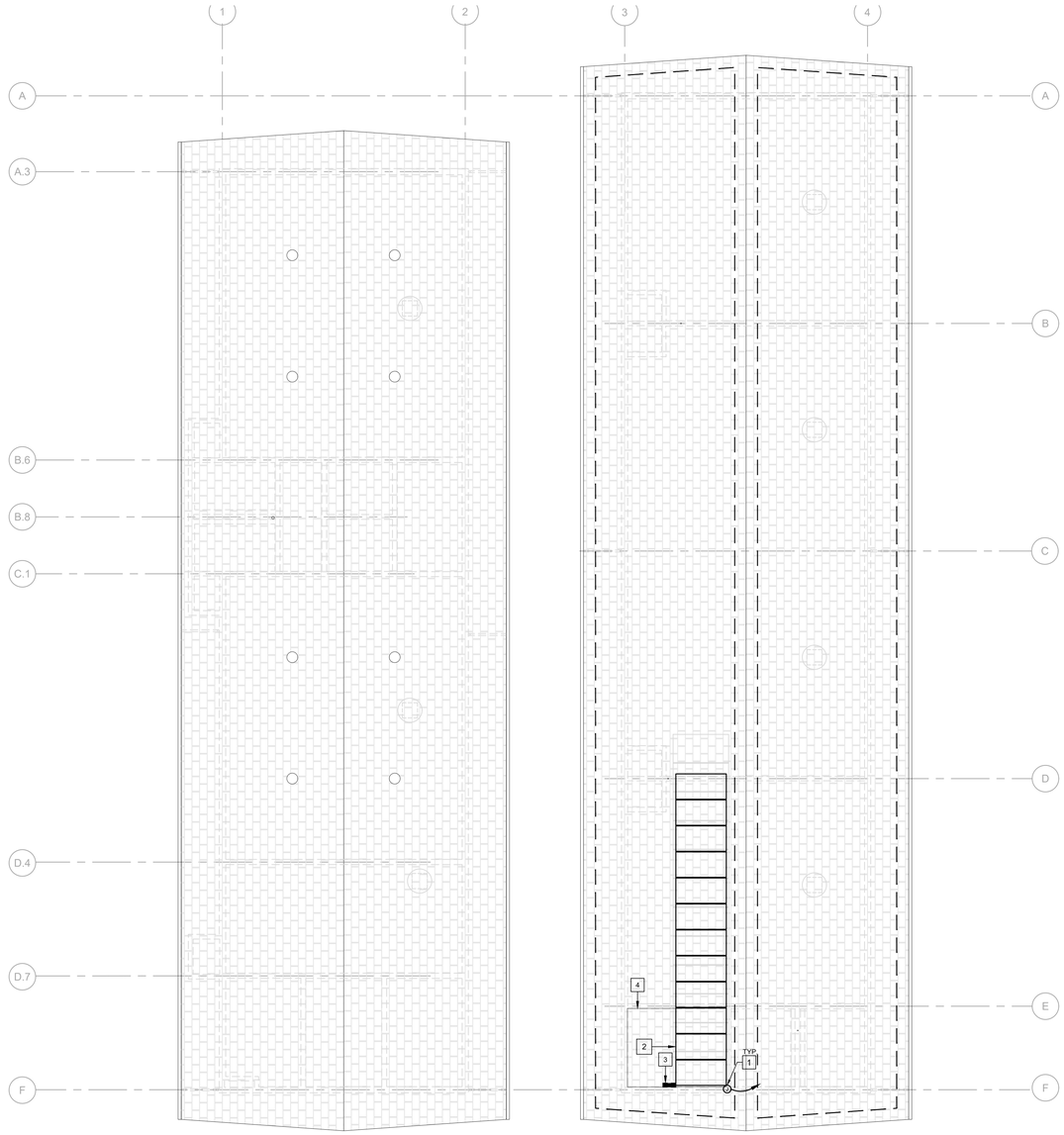
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E3.1

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ELECTRICAL ROOF PLAN

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

NORTH

☐ REFERENCE NOTES

1. NEMA 3R ROOR MOUNTED JUNCTION BOX FOR CONSOLIDATION OF PV STRING WIRE FOR HOMERUNNING TO ASSOCIATED INVERTER, PER SINGLE LINE DIAGRAM.
2. ROUTE STRING WIRE THROUGH FREE-AIR BENEATH MODULES VIA RACKING MANUFACTURER SUPPLIED WIRE MANAGEMENT HARDWARE/CLIPS.
3. PV INVERTER IN ELECTRICAL ROOM ON FIRST FLOOR BELOW. REFER TO ELECTRICAL ROOM FOR ADDITIONAL INFORMATION.
4. APPROXIMATE OUTLINE OF ELECTRICAL ROOM ON FIRST FLOOR BELOW. SHOWN FOR REFERENCE ONLY.
5. IRONRIDGE XR100 FLUSH MOUNT SOLAR RACKING SYSTEM.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
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REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
NO. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8049

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ELECTRICAL ROOF PLAN

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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
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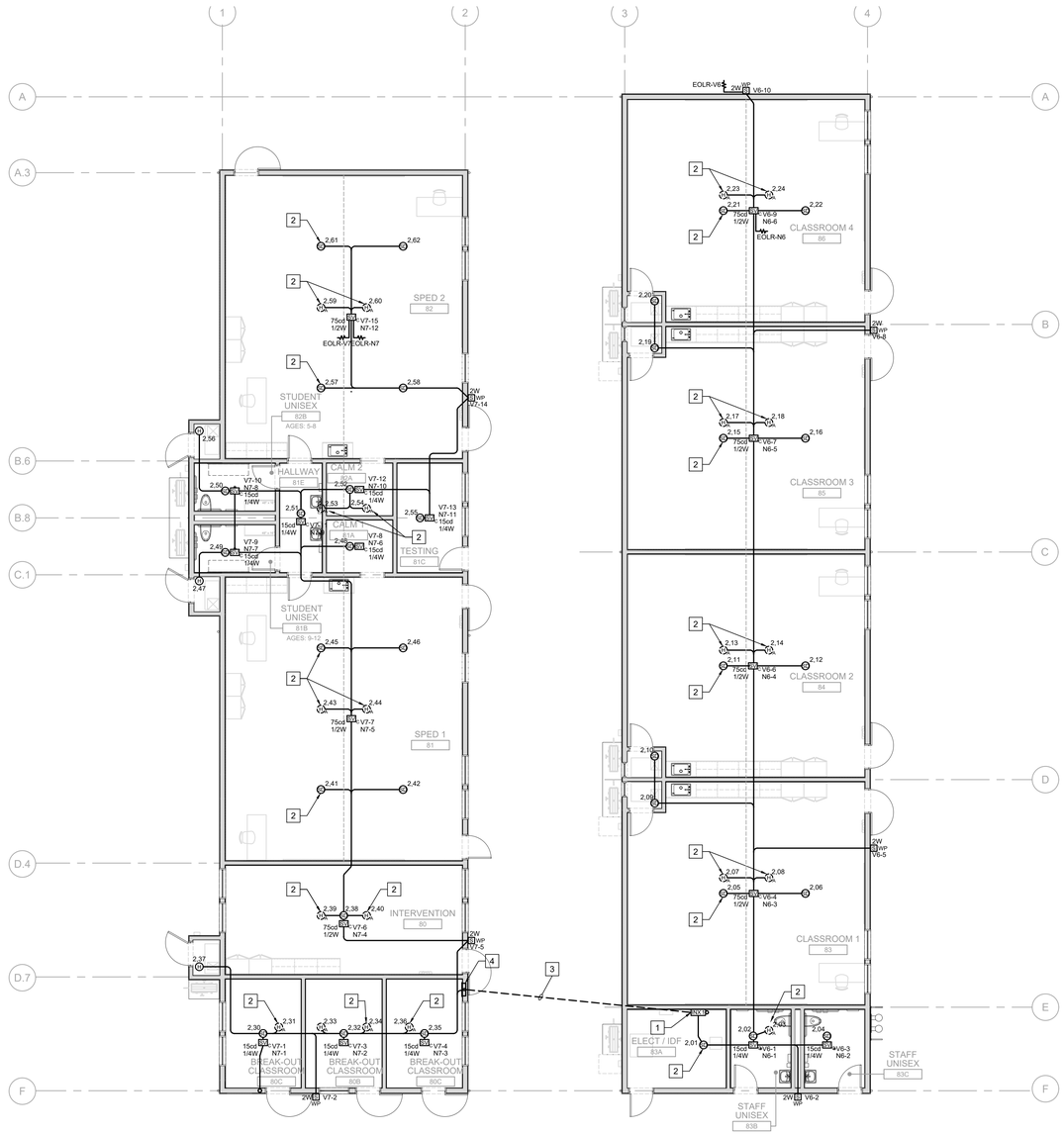
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FIRE ALARM FLOOR PLAN

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

NORTH

REFERENCE NOTES

1. FIRE ALARM INTELLIGENT NETWORK TRANSPONDER PANEL "INX-2". SEE FIRE ALARM RISER DIAGRAM SHEET E5.2.
2. MOUNT DETECTOR WITHIN 3FT OF PEAK.
3. PROVIDE (1)2" UNDERGROUND FIRE ALARM CONDUIT.
4. PROVIDE 12"X12" FLUSH MOUNTED FIRE ALARM TERMINAL CABINET.

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FIRE ALARM FLOOR PLAN

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
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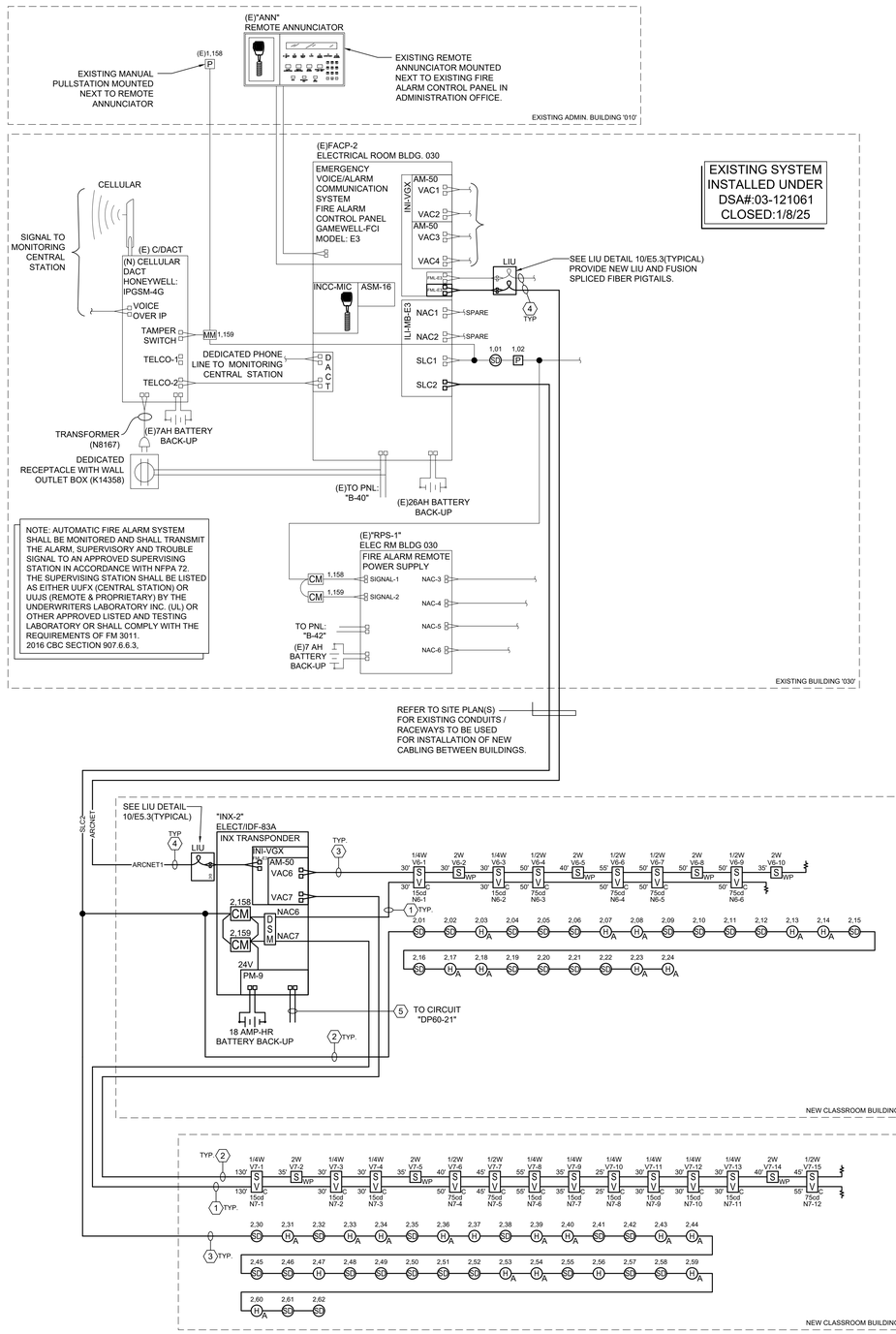
GL-2 FIRE ALARM NOTES CHECKLIST:

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35
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 DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
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 OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, 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, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 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 THAN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.

    2.16 APPLICABLE CODES: ENSURE THE CURRENT CODES ARE LISTED ON THE PLANS.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE 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. ALL BOXES TO BE SIZED PER CEC.
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 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. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

SEQUENCE OF OPERATIONS

FUNCTION / DEVICE	ACTIVATE VISUAL ALARM SIGNAL	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE SUPERVISORY ALARM AT FACP	ANNUNCIATE AT FIRE CONTROL REMOTE ANNUNCIATOR (alarm & trouble)	ANNUNCIATE AT FIRE CONTROL PANEL (alarm & trouble)	ANNUNCIATE AT 24-HOUR ATTENDED REMOTE LOCATION (alarm & trouble)
MANUAL PULL STATIONS	YES	YES	YES	YES	YES	YES
AREA SMOKE & HEAT DETECTOR	YES	YES	YES	YES	YES	YES
NOTIFICATION APPLIANCE CKT. SHORT	NO	NO	NO	YES	YES	YES
OPEN CIRCUIT	NO	NO	NO	YES	YES	YES
BUILDING POWER FAILURE	NO	NO	NO	YES	YES	YES
EARTH GROUND FAULT	NO	NO	NO	YES	YES	YES
FA SYSTEM LOW BATTERY	NO	NO	NO	YES	YES	YES



FIRE ALARM SYMBOLS LEGEND:

SYMBOL	MODEL #	CSFM #
FACP	(E)EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM(EV/ACS) FIRE ALARM CONTROL PANEL GAMEWELL-FCI: MODEL E3 WITH: INTELEGENT LOOP INTERFACE MASTER BOARD: ILI-MB-E3 LCD KEYPAD DISPLAY: LCD-E3 ADDRESSABLE SWITCH MODULE: ASM-16 DIGITAL ALARM COMMUNICATOR TRANSMITTER: DACT-E3 MICROPHONE: INCC-MIC TRANSPONDER VOICE GATEWAY: INI-VGX AMPLIFIER: AM-50 POWER SUPPLY MODULE: PM-9 (N)FIBER LOOP MODULE FML-E3	7165-1703:0125 EXISTING SYSTEM INSTALLED UNDER DSA#:03-121061 CLOSED:1/8/25 7165-1703:0176
CDACT	(E)CELLULAR DIGITAL ALARM COMMUNICATOR TRANSMITTER HONEYWELL: IPGSM-4G	7300-1645:0199
ANN	(E)REMOTE ANNUNCIATOR PANEL: GAMEWELL-FCI: LCD-E3-DISPLAY GAMEWELL-FCI: INCC-MIC GAMEWELL-FCI: CABINET 'A'	7165-1703:0125
INX-1	INTELLIGENT NETWORK TRANSPONDER GAMEWELL-FCI: -INI-VGX -AM-50 -PM-9 -FML-E3	7165-1703:0125 7165-1703:0176
SD	PHOTO SMOKE DETECTOR GAMEWELL-FCI: ASD-PL3 BASE- GAMEWELL-FCI: B300-6	7272-1703:0501 7300-1653:0109
H	HEAT DETECTOR GAMEWELL-FCI: ATD-L3 BASE- GAMEWELL-FCI: B300-6	7270-1703:0502 7300-1653:0109
H A (ATTIC)	HEAT DETECTOR-HIGH TEMP GAMEWELL-FCI: ATD-L3H BASE- GAMEWELL-FCI: B300-6	7270-1703:0502 7300-1653:0109
CM	CONTROL MODULE GAMEWELL-FCI: AOM-2SF	7300-1703:0102
S WP	SPEAKER (WEATHER PROOF)* WHEELOCK: ET1010-R (2W EXTERIOR)	7320-0785:0105
SV SC (**cd) (***W)	SPEAKER/STROBES-CEILING* WHEELOCK: ELSPSTRC-AL (**SIZES AS PER PLANS) (.5W INTERIOR)	7320-0785:0505
DSM	DUAL SYNC MODULE WHEELOCK: DSM-12/24-4	7300-0785-0132
	END OF LINE RESISTOR (EOLR)	–

* ENSURE NOTIFICATION DEVICES IS NOT PROVIDED WITH ANY "FIRE" MARKING OR IMPRINT ON THE DEVICE SINCE THIS DEVICE IS USED FOR BOTH FIRE NOTIFICATION AND CARBON MONOXIDE NOTIFICATION.

** DEVICE HAS MULTIPLE CANDELA RATINGS. THE E.C. IS RESPONSIBLE FOR CORRECTLY SETTING EACH STROBE OR SPEAKER/STROBE DEVICE ACCORDING TO THESE FIRE ALARM DRAWINGS.

*** DEVICE HAS MULTIPLE WATTAGE SETTINGS. THE E.C. IS RESPONSIBLE FOR CORRECTLY SETTING EACH SPEAKER OR SPEAKER/STROBE DEVICE ACCORDING TO THESE FIRE ALARM DRAWINGS.

FIRE WATCH

DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7 AND DSA IR F-2. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.

GENERAL NOTES

APPLIES TO ALL RISER SHEETS

1. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT, 1"MINIMUM.
2. 120 VAC WIRING WILL BE MINIMUM #12 AWG.
3. WIRING SHALL NOT BE LOOPED THROUGH DEVICE TERMINALS. CONDUCTORS MUST BE CUT AND WIRED "IN" AND "OUT" SO THAT ADEQUATE SUPERVISION OF THE CIRCUIT CAN BE MAINTAINED.
4. ALL DEVICES POLARITY MUST BE OBSERVED.
5. FIRE ALARM CONDUIT AND WIRING INSTALLATION SHALL COMPLY WITH CALIFORNIA ELECTRICAL CODE #760.
6. THIS IS A COMPLETE FIRE ALARM SUBMITTAL: If an alternate system is proposed, Contractor shall submit a separate set of engineered plans, specifications, and engineering calcs. for prior approval to the Owner, Division of State Architect (DSA), Architect, and Engineer including but not necessaitry limited to:
   a. All CSFM listing numbers and Manufacturers model numbers for all system components proposed for this system.
   b. Complete Riser Diagram with point to point wirlng diagrams including battery and voltage drop calculations for the entire system.
   c. Indication of conductor type(s), power-limited or non-power limited system.
   d. Information as required to demonstrate compliance with all applicable code(s) and to obtain approval of all Authority(ies) having Jurisdiction (AHJ). In the event of a substitution, installation shall not begin until separate approval has been obtained and all of the above has been accepted and signed by the (AHJ) and the Architect, see Specification Section 01631 regarding substitutions. If routing differs significantly from these plans, approval of the Engineer must be obtained before installation. After construction, provide an accurate set of field record drawings to Owner.
7. FIRE ALARM SYSTEM SHALL BE SURVIVABILITY LEVEL-0.

⬡ CABLING SCHEDULE

1. VISUALS - (2)#14 TWISTED UNSHIELDED, WINDY CITY WIRE 767969(INTERIOR), 729110VNQ(EXTERIOR) (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
2. SPEAKERS - (2)#14 TWISTED SHIELDED PAIR, WINDY CITY WIRE 767920(INTERIOR), 712110VNQ(EXTERIOR), (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
3. SLC&LCD - (2)#18 TWISTED UNSHIELDED PAIR, WINDY CITY WIRE 762360(INTERIOR), 727110VNQ(EXTERIOR) (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
4. ARCNET - MULTIMODE 6-STRAND FIBER OPTIC, OM4, 50UM. (OSP). RED JACKET WITH LC CONNECTORS. LABEL AS FIRE ALARM NETWORK IN EACH PULL BOX. ALL FIBER SHALL BE TERMINATED USING PRE-FABRICATED PIGTAILS, CONTRACTOR SHALL FUSION SPLICE ALL PIGTAILS AND CONNECTORS IN WALL MOUNTED FIBER SPLICE ENCLOSURE. FIELD TERMINATED CONNECTORS ARE NOT ACCEPTABLE. CONTRACTOR SHALL PROVIDE ALL JUMPERS IN SUFFICIENT LENGTH BETWEEN FIBER SPLICE ENCLOSURE AND FIBER OPTIC MODULES IN EQUIPMENT. REFER TO DETAIL 3/FA-305 FOR FIBER CABLING LABEL REQUIREMENTS.
5. 120 VAC DEDICATED CIRCUIT. PROVIDE CIRCUIT BREAKER LOCKING DEVICE WITH RED HANDLE AND LABEL "FIRE ALARM CIRCUIT". SEE FLOOR PLANS AND PANEL SCHEDULES FOR CIRCUIT DESIGNATION(S).

** CONDUIT SIZE SHALL BE 1" MINIMUM, UNLESS OTHERWISE NOTED ON PLANS, REFER TO SITE AND FLOOR PLANS FOR ADDITIONAL FIRE ALARM CONDUIT SIZE REQUIREMENTS. EC SHALL SUBMIT CABLE MAKE/MODEL/CSFM LISTING (OR APPROVED EQUAL) WITH FIRE ALARM PROJECT DATA.

SYSTEM DESCRIPTION

INITIATING CIRCUIT CLASS: 'B'

SYSTEM TYPE: AUTOMATIC

INDICATING CIRCUIT CLASS: B

THE FIRE ALARM SYSTEM SHALL BE OF A TYPE THAT UPON ACTIVATION INITIATES NOTIFICATION BY MEANS OF AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM (EV/ACS).

SIGNAL DEVICE CIRCUITING LEGEND

DEVICE SYMBOL → V
SIGNAL CIRCUIT # (N)NAC (V)VAC → N1 - 1 ← DEVICE #

INITIATING DEVICE CIRCUITING LEGEND

P ← DEVICE SYMBOL
SIGNAL LINE CIRCUIT # → 1.08 ← DEVICE ADDRESS NUMBER

VOICE NOTIFICATION MESSAGE

EV/ACS SHALL HAVE THE FOLLOWING PROGRAMMED MESSAGES IN BOTH ENGLISH AND SPANISH:

-(MESSAGE TONE)"THIS IS A TEST OF THE EMERGENCY AUDIO SYSTEM."(PROVIDE A 2 SECOND PAUSE)(REPEAT THE MESSAGE.)

-(TEMPORAL 3 TONE FOLLOWED BY) "MAY I HAVE YOUR ATTENTION PLEASE! MAY I HAVE YOUR ATTENTION PLEASE! THE SIGNAL YOU JUST HEARD INDICATED A REPORT OF AN EMERGENCY IN THIS BUILDING. PLEASE PROCEED TO THE NEAREST EXIT AND LEAVE THE BUILDING. DO NOT RE-ENTER THE BUILDING UNLESS DIRECTED TO DO SO BY THE PROPER AUTHORITIES." (PROVIDE A 2 SECOND PAUSE.)(REPEAT THE MESSAGE.)

-(TEMPORAL 4 TONE FOLLOWED BY) MAY I HAVE YOUR ATTENTION PLEASE! MAY I HAVE YOUR ATTENTION PLEASE! CARBON MONOXIDE HAS BEEN DETECTED IN THE BUILDING. PLEASE PROCEED TO THE NEAREST EXIT AND LEAVE THE BUILDING. DO NOT RE-ENTER THE BUILDING UNLESS DIRECTED TO DO SO BY THE PROPER AUTHORITIES.(PROVIDE A 2 SECOND PAUSE.)(REPEAT THE MESSAGE.)

-(MESSAGE TONE)"YOUR ATTENTION PLEASE. THE BUILDING EMERGENCY CONDITION HAS BEEN CLEARED. YOU MAY RETURN TO YOUR NORMAL ACTIVITY. THE BUILDING EMERGENCY CONDITION HAS BEEN CLEARED. YOU MAY RETURN TO YOUR NORMAL ACTIVITY.(PROVIDE A 2 SECOND PAUSE.)(REPEAT THE MESSAGE TWICE.)

FIRE ALARM SYSTEM NOTES

- FIRE ALARM SYSTEM SHALL BE SUPERVISED BY AN APPROVED, UL LISTED CENTRAL STATION (UUFX) OR REMOTE STATION (UUJS) MONITORING COMPANY. (REF: CFC, 907.6.6.4, 2022 EDITION)
- A DOCUMENTATION CABINET SHALL BE INSTALLED AT THE SYSTEM CONTROL UNIT OR AT ANOTHER APPROVED LOCATION AT THE PROTECTED PREMISES. (NFPA 72, 7.7.2.1, 2022 EDITION)
- ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTAION CABINET. NO RECORD DOCUMENTATION SHALL BE STORED IN THE CONTROL UNIT.(NFPA 72, 7.7.2.3, 2022 EDITION)
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS". (NFPA 72, 7.7.2.5, 2022 EDITION)

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FIRE ALARM RISER

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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

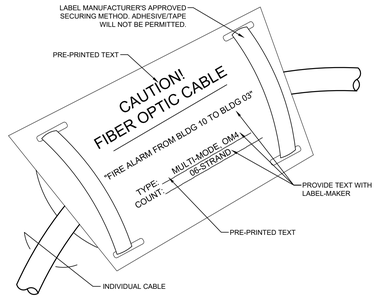
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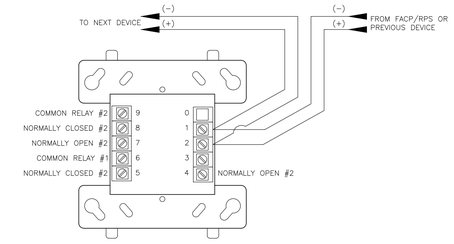


NOTES:

- LABEL SHALL CONTAIN THE WORDS "CAUTION! FIBER OPTIC CABLE"
- LABEL SHALL CLEARLY IDENTIFY THE SOURCE AND DESTINATION OF THE FIBER CABLE.
- LABEL SHALL CLEARLY IDENTIFY THE TYPE AND STRAND COUNT CONTAINED WITHIN THE CABLE.
- ALL LABEL MARKINGS SHALL BE MADE IN INDELIBLE INK.
- LABEL SHALL BE SELF LAMINATED AND SUITABLE FOR OUTDOOR, SUBMERGED APPLICATIONS WITHOUT DEGRADATION.
- WHERE USED FOR CAMPUS FIRE ALARM CABLING, TAG COLORS SHALL BE BLACK AND RED.

10 FIBER OPTIC CABLE LABEL

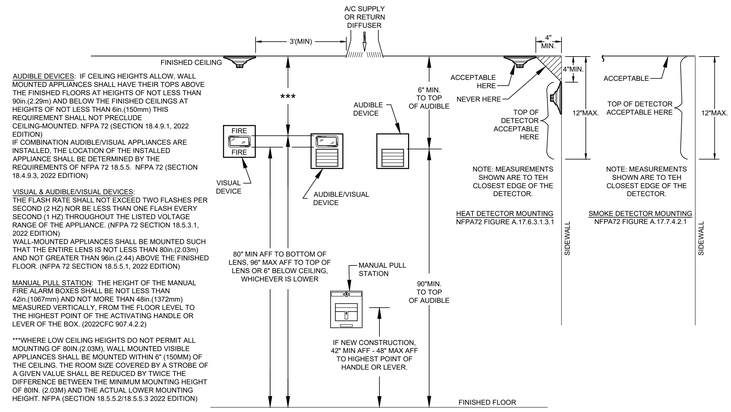
NTS



VERIFY ALL WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION.

6 TYPICAL ADDRESSABLE CONTROL MODULE WIRING DIAGRAM

SCALE: N.T.S.



AUDIBLE DEVICES: IF CEILING HEIGHTS ALLOW, WALL MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90in.(2.29m) AND BELOW THE FINISHED CEILINGS AT HEIGHTS OF NOT LESS THAN 6in.(150mm) THIS REQUIREMENT SHALL NOT PRECLUDE CEILING-MOUNTED. NFPA 72 (SECTION 18.4.9.1, 2022 EDITION)
IF COMBINATION AUDIBLE/VISUAL APPLIANCES ARE INSTALLED, THE LOCATION OF THE INSTALLED APPLIANCE SHALL BE DETERMINED BY THE REQUIREMENTS OF NFPA 72 18.5.5. NFPA 72 (SECTION 18.4.9.3, 2022 EDITION)

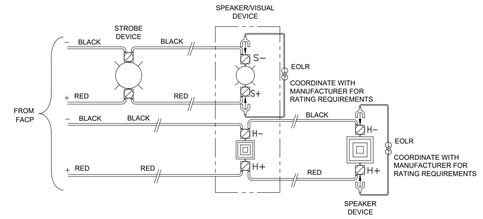
VISUAL & AUDIBLE/VISUAL DEVICES:
THE FLASH RATE SHALL NOT EXCEED TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ) THROUGHOUT THE LISTED VOLTAGE RANGE OF THE APPLIANCE. (NFPA 72 SECTION 18.5.3.1, 2022 EDITION)
WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80in.(2.03m) AND NOT GREATER THAN 96in.(2.44) ABOVE THE FINISHED FLOOR. (NFPA 72 SECTION 18.5.5.1, 2022 EDITION)

MANUAL PULL STATION: THE HEIGHT OF THE MANUAL FIRE ALARM BOXES SHALL BE NOT LESS THAN 42in.(1067mm) AND NOT MORE THAN 48in.(1372mm) MEASURED VERTICALLY, FROM THE FLOOR LEVEL TO THE HIGHEST POINT OF THE ACTIVATING HANDLE OR LEVER OF THE BOX. (2022CFC 907.4.2.2)

***WHERE LOW CEILING HEIGHTS DO NOT PERMIT ALL MOUNTING OF 80IN.(2.03M), WALL MOUNTED VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" (150MM) OF THE CEILING. THE ROOM SIZE COVERED BY A STROBE OF A GIVEN VALUE SHALL BE REDUCED BY TWICE THE DIFFERENCE BETWEEN THE MINIMUM MOUNTING HEIGHT OF 80IN. (2.03M) AND THE ACTUAL LOWER MOUNTING HEIGHT. NFPA (SECTION 18.5.5.2/18.5.5.3 2022 EDITION)

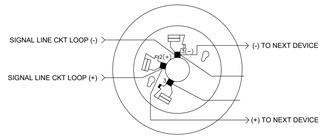
1 DEVICE ELEVATION DETAIL

SCALE: N.T.S.



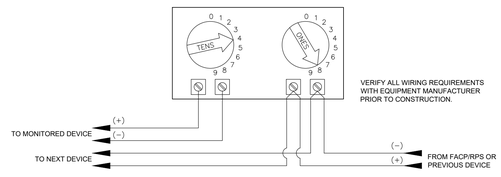
2 TYPICAL NOTIFICATION CIRCUIT WIRING DIAGRAM

SCALE: N.T.S.



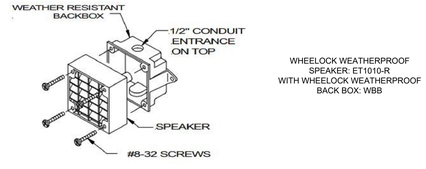
3 ADDRESSABLE SMOKE AND HEAT AND C.O. DETECTOR WIRING DIAGRAM

SCALE: N.T.S.



4 TYPICAL ADDRESSABLE MONITOR MODULE WIRING DIAGRAM

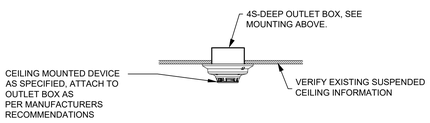
SCALE: N.T.S.



WHEELOCK WEATHERPROOF SPEAKER: ET1010-R
WITH WHEELOCK WEATHERPROOF BACK BOX: WBB

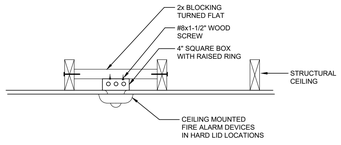
5 WEATHERPROOF SPEAKER MOUNTING

SCALE: N.T.S.



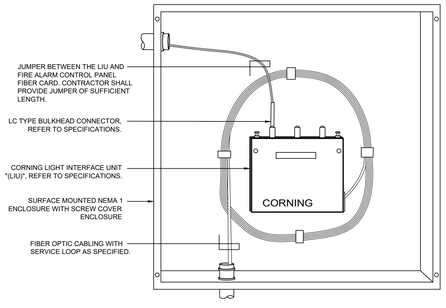
7 TYPICAL DEVICE MOUNTING DETAIL AT T-BAR CEILINGS

NTS



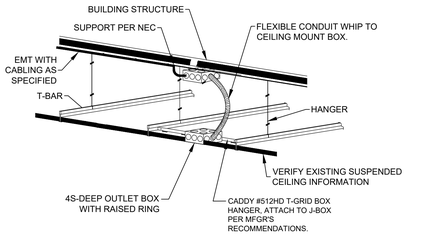
8 TYPICAL DEVICE MOUNTING DETAIL AT HARD LID CEILINGS

NTS



9 TYPICAL LIGHT INTERFACE UNIT 'LIU' INSTALLATION

NTS



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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
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SUITE 250
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PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
NO. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8049

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FIRE ALARM DETAILS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E5.3

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME: Dana Elem.
NAC/VISUAL SIG CKT#: N6

CKT./DEVICE #	N6-1	N6-2	N6-3	N6-4	N6-5	N6-6	N6-7	N6-8	N6-9	N6-10
DEVICE	S/V15cd-C	S/V15cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	0	0	0	0
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT.)	30	30	50	50	50	50	0	0	0	0
AMPS @ DEVICE	0.022	0.022	0.06	0.06	0.06	0.06	0	0	0	0
AMPS DEVELOPED	0.284	0.262	0.24	0.18	0.12	0.06	0	0	0	0
VOLT. DROP	0.043	0.040	0.060	0.045	0.030	0.015	0.000	0.000	0.000	0.000

CKT./DEVICE #	N6-11	N6-12	N6-13	N6-14	N6-15	N6-16	N6-17	N6-18	N6-19	N6-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT.)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I.X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N6
TOTAL CKT AMPS. =	0.284
CIRCUIT LENGTH =	260FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.234
VOLTAGE AT FINAL DEVICE=	20.166
% VOLTAGE DROP=	1.146

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME: Dana Elem.
VAC/VOICE SIG CKT#: V6

CKT./DEVICE #	V6-1	V6-2	V6-3	V6-4	V6-5	V6-6	V6-7	V6-8	V6-9	V6-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT.)	30	30	30	50	40	55	50	50	50	35
AMPS @ DEVICE	0.0104	0.083	0.0104	0.0208	0.083	0.0208	0.0208	0.083	0.0208	0.083
AMPS DEVELOPED	0.436	0.4256	0.3426	0.3322	0.3114	0.2284	0.2076	0.1868	0.1038	0.083
VOLT. DROP	0.066	0.064	0.052	0.084	0.063	0.063	0.052	0.047	0.026	0.015

CKT./DEVICE #	V6-11	V6-12	V6-13	V6-14	V6-15	V6-16	V6-17	V6-18	V6-19	V6-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT.)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I.X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V6
TOTAL CKT AMPS.=	0.436 (10.46W)
CIRCUIT LENGTH =	420FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.532
VOLTAGE AT FINAL DEVICE=	19.868
% VOLTAGE DROP=	2.608

SPEAKER LOAD	
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME: Dana Elem.
NAC/VISUAL SIG CKT#: N7

CKT./DEVICE #	N7-1	N7-2	N7-3	N7-4	N7-5	N7-6	N7-7	N7-8	N7-9	N7-10
DEVICE	S/V15cd-C	S/V15cd-C	S/V15cd-C	S/V75cd-C	S/V75cd-C	S/V15cd-C	S/V15cd-C	S/V15cd-C	S/V15cd-C	S/V15cd-C
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT.)	130	30	30	50	45	55	35	25	30	30
AMPS @ DEVICE	0.022	0.022	0.022	0.06	0.06	0.022	0.022	0.022	0.022	0.022
AMPS DEVELOPED	0.378	0.356	0.334	0.312	0.252	0.192	0.17	0.148	0.126	0.104
VOLT. DROP	0.248	0.054	0.051	0.079	0.057	0.053	0.030	0.019	0.019	0.016

CKT./DEVICE #	N7-11	N7-12	N7-13	N7-14	N7-15	N7-16	N7-17	N7-18	N7-19	N7-20
DEVICE	S/V15cd-C	S/V75cd-C	0	0	0	0	0	0	0	0
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT.)	30	55	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0.022	0.06	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0.082	0.06	0	0	0	0	0	0	0	0
VOLT. DROP	0.012	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I.X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N7
TOTAL CKT AMPS.=	0.378
CIRCUIT LENGTH =	545FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.653
VOLTAGE AT FINAL DEVICE=	19.747
% VOLTAGE DROP=	3.203

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME: Dana Elem.
VAC/VOICE SIG CKT#: V7

CKT./DEVICE #	V7-1	V7-2	V7-3	V7-4	V7-5	V7-6	V7-7	V7-8	V7-9	V7-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT.)	130	35	30	30	35	40	45	55	35	25
AMPS @ DEVICE	0.0104	0.083	0.0104	0.0104	0.083	0.0208	0.0208	0.0104	0.0104	0.0104
AMPS DEVELOPED	0.405	0.3946	0.3116	0.3012	0.2908	0.2078	0.187	0.1662	0.1558	0.1454
VOLT. DROP	0.265	0.070	0.047	0.046	0.051	0.042	0.042	0.046	0.027	0.018

CKT./DEVICE #	V7-11	V7-12	V7-13	V7-14	V7-15	V7-16	V7-17	V7-18	V7-19	V7-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT.)	30	30	30	40	45	0	0	0	0	0
AMPS @ DEVICE	0.0104	0.0104	0.0104	0.083	0.0208	0	0	0	0	0
AMPS DEVELOPED	0.135	0.1246	0.1142	0.1038	0.0208	0	0	0	0	0
VOLT. DROP	0.020	0.019	0.017	0.021	0.005	0.000	0.000	0.000	0.000	0.000

FORMULA	
I.X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V7
TOTAL CKT AMPS.=	0.405 (9.72W)
CIRCUIT LENGTH =	635FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.737
VOLTAGE AT FINAL DEVICE=	19.663
% VOLTAGE DROP=	3.614

SPEAKER LOAD	
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

BATTERY CALCULATIONS

PROJECT: Dana Elem.-(E)'FACP-2'
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
(E)Fire Alarm Control Pnl. -EV/ACS	Gamewell-FCI	E3-Series	1	0.6130	0.6130	4.9900	4.9990
(E)Smoke Detector	Gamewell-FCI	ASD-PL3	45	0.00020	0.0090	0.00200	0.0900
(N)Smoke Detector	Gamewell-FCI	ASD-PL3		0.00020	0.0000	0.00200	0.0000
(E)Carbon Monoxide Detector	Gamewell-FCI	MCS-COF	41	0.00003	0.0012	0.00720	0.2952
(E)Heat Detector	Gamewell-FCI	ATD-L3	43	0.00020	0.0086	0.00200	0.0860
(N)Heat Detector	Gamewell-FCI	ATD-L3	24	0.00020	0.0048	0.00200	0.0480
(E)Pull Station	Gamewell-FCI	MS-7AF	2	0.00030	0.0006	0.00300	0.0060
(E)Relay Control Module	Gamewell-FCI	AOM-2RF	4	0.00038	0.0015	0.00650	0.0260
(E)Control Module	Gamewell-FCI	AOM-2SF	4	0.00038	0.0015	0.00650	0.0260
(N)Control Module	Gamewell-FCI	AOM-2SF	2	0.00038	0.0008	0.00650	0.0130
(E)Monitor Module	Gamewell-FCI	AMM-2F	1	0.00038	0.0004	0.00060	0.0006
**SPEAKER LOADS	----------	----------	-----	-------	0.0000	-------	0.0000
(E)Speaker-Weatherproof (2Watts)	Wheelock	ET1010	14	0.00000	0.0000	0.08300	1.1620
(E)Speaker/Strobe-Wall -15cd / (.5Watts Speaker)	Wheelock	LSPSTR3	4	0.00000	0.0000	0.02080	0.0832
(E)Speaker/Strobe-Ceiling -75cd / (.5Watts Speaker)	Wheelock	LSPSTRC3	16	0.00000	0.0000	0.02080	0.3328
			0	0.00000	0.0000	0.00000	0.0000
				Total:	0.6414	Total:	7.1678

Total Standby Amps =	0.641 x	24	Hours =	15.3925	Amp-Hours
Total Alarm Amps =	7.168 x	0.25	Hours =	1.7920	Amp-Hours
		(15 minutes)			
Total Amp-Hours required after 24 hours standby and 15 minutes alarm.				17.1845	Amp-Hours
Total Battery Amp-Hours required:					
Total Amp-Hours required x 1.2 =				20.6214	Amp-Hours
Total Amp-Hours Supplied=				26.0000	Amp-Hours
Spare Capacity=				5.3786	Amp-Hours

BATTERY CALCULATIONS

PROJECT: Dana Elem.- INX2
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Intelgent Network Voice Gateway	Gamewell-FCI	NI-VGX	1	0.1500	0.150	0.1500	0.150
Amplifier Sub-assembly	Gamewell-FCI	AM-50	1	0.0860	0.086	2.2060	2.206
Power Supply	Gamewell-FCI	PM9	1	0.0500	0.050	0.0500	0.050
Dual Sync module	Wheelock	DSM-12/24	1	0.0000	0.000	0.0350	0.035
Speaker-Weatherproof (2Watts)	Wheelock	ET1010	7	0.0000	0.000	0.0833	0.583
Speaker/Strobe-Clg. -15cd /(.25Watts Speaker)	Wheelock	ELSPSTRC	11	0.0000	0.000	0.0324	0.356
Speaker/Strobe-Clg. -75cd /(.5Watts Speaker)	Wheelock	ELSPSTRC	7	0.0000	0.000	0.0808	0.566
			0	0.0000	0.000	0.0000	0.000
				Total:	0.286	Total:	3.946

Total Standby Amps =	0.286 x	24	Hours =	6.864	Amp-Hours
Total Alarm Amps =	3.946 x	0.25	Hours =	0.987	Amp-Hours
		(15 minutes)			
Total Amp-Hours required after 24 hours standby and 15 minutes alarm.				7.851	Amp-Hours
Total Battery Amp-Hours required:					
Total Amp-Hours required x 1.2 =				9.42	Amp-Hours
Total Amp-Hours Supplied=				18	Amp-Hours
Spare Capacity=				8.579	Amp-Hours

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
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FIRE ALARM CALCULATIONS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E5.4

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TASK RESPONSIBILITY MATRIX

TASK	RESPONSIBLE PARTY
TELECOM - CONDUIT, BACKBOXES, FLOORBOXES, POKE-THRU'S, SLEEVES	CFCI
TELECOM - CONDUIT ID, LABELING, AND PULLSTRINGS	CFCI
TELECOM - EQUIPMENT STRUCTURAL SUPPORTS AND BACKING	CFCI
TELECOM - EQUIPMENT CEILING PREP (ACCESS POINTS, CAMERAS, INTRUSION)	CFCI
POWER TO TELECOM, RACKS, HEAD-END EQUIPMENT	CFCI
TELECOM EQUIPMENT RACKS, PATCH PANELS, CABLE MANAGEMENT, LADDER RACKING/TRAY	CFCI
TELECOM CABLING AND TERMINATION	CFCI
TELECOM FACEPLATES AND DIVIDERS	CFCI
NETWORK EQUIPMENT (SWITCHES, RACK-MOUNT UPS IN IDF'S, SERVERS, STORAGE)	OFOI
MISC. IT EQUIPMENT (TELEPHONES, COMPUTERS, MONITORS)	OFOI
WIRELESS ACCESS POINTS	OFCI
POE SPEAKERS	OFCI
CLOCK DEVICES	CFCI
HDMI CABLES	OFCI

CFCI = CONTRACTOR FURNISHED AND INSTALLED
OFCI = OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI = OWNER FURNISHED, OWNER INSTALLED

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING OWNER OF ALL HARDWARE NOTED WITHIN DRAWINGS OR SPECIFICATIONS AS FURNISHED OR PROVIDED BY OWNER AND CONTRACTOR INSTALLED. SUCH NOTICE SHALL BE PROVIDED TO OWNER AT CONTRACT NOTICE TO PROCEED, AND A CORRESPONDING SCHEDULE FOR WHEN SPECIFIC EQUIPMENT IS NECESSARY FOR INSTALLATION BY CONTRACTOR. ALL HARDWARE SHALL BE INSTALLED BY THE EC UNLESS NOTED OTHERWISE.

BASIS OF DESIGN

TELECOMMUNICATIONS ROOM ('TR' / 'IDF' / 'MDF') ROOM EQUIPMENT

MANUF.	MANUFACTURER'S PART NO. / SERIES NO.	DESCRIPTION
CHATSWORTH	13856-703	SEISMIC RATED UNIVERSAL, 44RU, 2-POST COMMUNICATIONS RACK
CHATSWORTH	10250-X (SERIES)	UNIVERSAL CABLE RUNWAY, BLACK
CHATSWORTH	36821-6 (SERIES)	4" DEEP WIRE BASKET CABLE-TRAY
LEVITON	5R2UM-F06	2RU FIBER OPTIC SPLICE ENCLOSURE AND PATCH PANEL
LEVITON	49255-H24	24 PORT, 1RU MODULAR PATCH PANEL (CAT6A) - COMPATIBLE WITH LEVITON QUICKPORT CONNECTORS
LEVITON	49255-H48	48 PORT, 2RU MODULAR PATCH PANEL (CAT6A) - COMPATIBLE WITH LEVITON QUICKPORT CONNECTORS
LEVITON	49253-LPM	5-RING HORIZONTAL MANAGER 1RU
LEVITON	49253-BCM	5-RING HORIZONTAL MANAGER 2RU
CHATSWORTH	13704-703	VERTICAL CABLING MANAGERS 6"W
HUBBELL	RE4X	HUBBEL RE-BOX IDF24 CABINET

CABLING

MANUF.	MANUFACTURER'S PART NO. / SERIES NO.	DESCRIPTION
BERK-TEK	"ADVENTUM"	INDOOR/OUTDOOR, GIGALITE-'AB', LOOSE TUBE 'OS2', 12-STRAND, SINGLE MODE FIBER OPTIC CABLE
BERK-TEK	LANMARK-1000*	CAT6 CABLE (INDOOR, RISER RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)
BERK-TEK	LANMARK-1000* OSP	CAT6 CABLE (OSP, OUTDOOR RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)
BERK-TEK	RDT UTP CMP	CAT6A CABLE (INDOOR, RISER RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)
BERK-TEK	RDT I/O UTP CMP	CAT6A CABLE (OSP, OUTDOOR RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)

INTERCOM/PA/BELLS/CLOCKS

(CONTRACTOR SHALL PROVIDE MOUNTING ACCORDING TO CEILING TYPE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLAN)

MANUF.	MANUFACTURER'S PART NO. / SERIES NO.	DESCRIPTION
ALGO	8180 G2	IP SPEAKER FOR VOICE PAGING, EMERGENCY ALTERING, & LOUD RINGING (POE)
ALGO	8128	IP STROBE LIGHT FOR TELEPHONE, SAFETY, SECURITY & EMERGENCY ALTERING (POE) - ONLY USED WHEN A ROOM REQUIRES A VISUAL ALERTER.
ALGO	8186	WIDEBAND IP HORN SPEAKER FOR VOICE PAGING, EMERGENCY ALTERTING & LOUD RINGING (POE)

*NOTE: PROVIDE OSP OUTDOOR CABLE WHERE ROUTED OUTDOORS AND BETWEEN BUILDINGS.

TELECOMMUNICATIONS DEVICE SCHEDULE

SYMBOL	BACKBOX	MUD RING	CONDUIT STUB	CABLE TYPE	CABLE QUANTITY	CABLE COLOR	FACEPLATE	NOTES
D	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6/6A	4	(1) CAT6 CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), BLUE IN COLOR	4-PORT, WHITE	STANDARD WORK AREA OUTLET. "n" = NUMBER OF CAT6/6A DATA DROPS. PROVIDE BLANK COVERS FOR UNUSED PORTS. SEE DETAIL 5/E6.1 AND 6/E6.1 FOR FACEPLATE NAMING CONVENTIONS.
+100"n D	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6	2	CAT6 CABLE (RISER) BLUE IN COLOR	2-PORT, WHITE	DATA OUTLET AT 100" AT LOCATION SHOWN IN PLAN. "n" = NUMBER OF CAT6/6A DATA DROPS. COORDINATE MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH IN. SEE DETAIL 3/E0.08 FOR RECESSED MEDIA LAYOUT.
HDMI	4-11/16"	SINGLE GANG	1-1/4"	NONE	-	-	LEVITON BRUSHED	
W	-	-	1-1/4"	CAT6A	2	CAT6A CABLE (RISER) WHITE IN COLOR	-	INTERIOR WIRELESS ACCESS POINT, DISTRICT PROVIDED (INCLUDING MOUNT) AND CONTRACTOR INSTALLED. MOUNTING PER DETAIL 3/E6.1 OR 4/E6.1.
HW WP	-	-	1-1/4"	CAT6A	1	CAT6A CABLE (RISER) WHITE IN COLOR	-	EXTERIOR (WP) WALL MOUNTED WIRELESS ACCESS POINT LOCATION, DISTRICT PROVIDED (INCLUDING MOUNT) AND CONTRACTOR INSTALLED. EC SHALL PROVIDE (1) CAT6A CABLE EACH. REFER TO MANUFACTURER'S MOUNTING REQUIREMENTS.
W WP	-	-	1-1/4"	CAT6A	1	CAT6A CABLE (RISER) WHITE IN COLOR	-	EXTERIOR (WP) WIRELESS ACCESS POINT LOCATION, DISTRICT PROVIDED (INCLUDING MOUNT) AND CONTRACTOR INSTALLED. EC SHALL PROVIDE (1) CAT6A CABLE EACH. REFER TO MANUFACTURER'S MOUNTING REQUIREMENTS.
S	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE IN COLOR	-	VOIP ENABLED CEILING MOUNTED SPEAKER (PART NUMBERS PER BASIS OF DESIGN). CONTRACTOR SHALL PROVIDE (1) BLUE CAT6 CABLE PER DEVICE FROM IDF WITH MINIMUM 10'-0" SERVICE LOOP TERMINATED IN BISCUIT INSIDE SPEAKER ENCLOSURE.
S	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE IN COLOR	-	VOIP ENABLED WALL MOUNTED SPEAKER (PART NUMBERS PER BASIS OF DESIGN). CONTRACTOR SHALL PROVIDE (1) BLUE CAT6 CABLE PER DEVICE FROM IDF WITH MINIMUM 10'-0" SERVICE LOOP TERMINATED IN BISCUIT INSIDE SPEAKER ENCLOSURE.
S WP	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE IN COLOR	-	WEATHER PROOF (WP) OUTDOOR SPEAKER (PART NUMBERS PER BASIS OF DESIGN). EC SHALL PROVIDE (N) (1) CAT6 CABLE PER SPEAKER WITH MINIMUM 10'-0" SERVICE LOOP TERMINATED IN BISCUIT INSIDE SPEAKER ENCLOSURE. EC SHALL COORDINATE WITH DISTRICT REPRESENTATIVE FOR FINISHED MOUNTING HEIGHT.
VS	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6	HARD LID = (1) T-BAR = (2)	CAT6 CABLE (RISER) BLUE IN COLOR	-	PROVIDE SINGLE GANG BOX, DATA PORT AND COVER WITH (1) CAT6 CABLE TO IDF FLUSH MOUNTED IN HARD LID CEILING FOR FUTURE VAPE SENSOR.
CAM	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE IN COLOR	-	EXTERIOR CAMERA LOCATION, PROVIDE (1) BLUE CAT6 CABLE PER LOCATION, TERMINATED IN 1-PORT BISCUIT IN FLUSH MOUNTED WEATHERPROOF 5S BOX 120" AFF. EC SHALL PAINT WEATHERPROOF COVER TO MATCH EXISTING BUILDING.

1 TELECOMMUNICATION DEVICE CABLE AND ROUGH-IN SCHEDULE
SCALE: NTS

GENERAL COMMUNICATION PLAN NOTES

A. REFER TO PROJECT TELECOMMUNICATIONS PLANS AND SPECIFICATIONS FOR FURTHER INFORMATION.

B. SIGNAL AND COMMUNICATIONS SYSTEMS RACEWAYS AND BOXES: PROVIDE AND INSTALL 5" SQUARE ("RANDL, INC") RECESSED JUNCTION BOX WITH 1-GANG RING AND (1) 1-1/4" CONDUIT STUB TO ACCESSIBLE CEILING SPACE ABOVE OR UNDER FLOOR SPACE BELOW AS APPLICABLE AT EACH WALL TELECOMMUNICATIONS (PHONE, PHONE/DATA, DATA) OUTLET AND TELEVISION OUTLET LOCATION SHOWN ON THE PLANS UNLESS OTHERWISE NOTED. PROVIDE PATHWAYS BETWEEN COMMUNICATIONS EQUIPMENT ROOM LOCATIONS AND ACCESSIBLE CEILINGS FOR ROUTING OF PHONE/DATA CABLES.

WHERE NO ACCESSIBLE CEILING EXIST; RUN CONDUIT FROM OUTLETS (FLOOR OR WALL) TO COMMUNICATIONS EQUIPMENT LOCATION.

PROVIDE 1-1/4" CONDUIT MINIMUM FOR FLOOR BOX TELECOM, AS SHOWN ON TELECOM PLANS.

BEFORE CONSTRUCTION, COORDINATE AND VERIFY TELECOMMUNICATIONS OUTLET LOCATIONS WITH OWNER OR ARCHITECT.

C. CONDUIT STUBS FROM BACKBOXES SHALL BE ROUTED TO ABOVE NEAREST ACCESSIBLE CEILING SPACE WITH ACCESS TO PRIMARY PATHWAY BACK TO IDF OR MDF, UNLESS NOTED OTHERWISE

D. CONFIRM ALL DEVICE HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH IN AND COORDINATE FINAL LOCATIONS WITH NEARBY DEVICE DICSIPLINES.

E. COORDINATE ALL ROUGH-IN FOR OFOI DEVICES WITH OWNER IT REPRESENTATIVE PRIOR TO ROUGH-IN.

F. PROVIDE EQUIPMENT RACKS, PATCH PANELS, CABLING, TERMINAL BLOCKS & COMPLETE OUTLET ASSEMBLIES.

G. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

H. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN FIRE RATED, OR SOUND RATED (STC) ASSEMBLIES SHALL BE PROVIDED WITH PUTTY PADS LISTED FOR THE APPLICATION.

I. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS. ALTERNATIVELY, A DEVICE BRACKET MAY BE USED BETWEEN STUDS WITH 4-INCH SEPARATION BETWEEN POWER AND LOW VOLTAGE BOXES.

J. AVOID UNDERGROUND TELECOM CONDUIT RUNS UNLESS NECESSARY. WHERE UNDERGROUND CONDUIT IS USED, TELECOM CABLES SHALL BE WET LISTED.

K. CABLE LADDER DROP-OUTS SHALL BE INSTALLED WHEREVER NECESSARY TO FACILITATE CABLE TRANSITIONS AND MIN BEND RADIUSES. DROP-OUTS SHALL BE EQUIVALENT TO CHATSWORTH AND SOLID ONE PIECE CONSTRUCTION.

L. NO LOW-VOLTAGE SYSTEM MAY USE THE TELECOMMUNICATIONS PATHWAY AS DESCRIBED ON THE TECHNOLOGY PLANS AND SPECIFICATIONS. THE TELECOMMUNICATION SYSTEM CABLING SHALL BE THE ONLY SYSTEM TO UTILIZE THE INFRASTRUCTURE AND CABLE TRAY / CABLE RUNWAY SYSTEM:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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SS ☑ FLS ☑ ACS ☑
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GENERAL COMMUNICATION PLAN NOTES, BOD

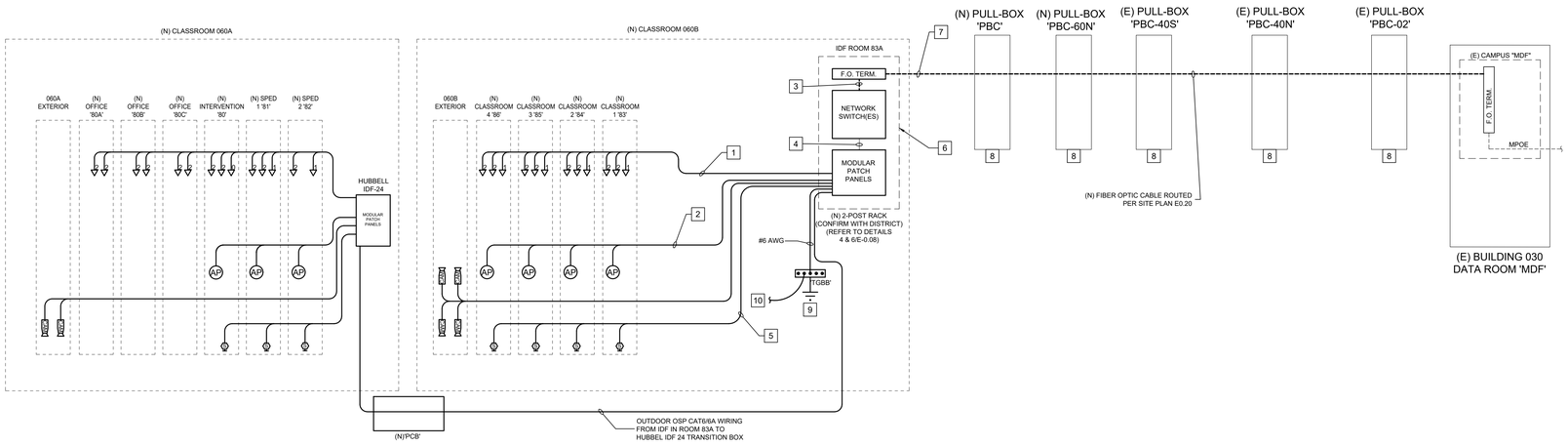
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E6.0

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PARTIAL CAMPUS COMMUNICATIONS RISER DIAGRAM

☐ REFERENCE NOTES

1. (N) CAT6 TO EACH DATA OUTLET (QUANTITY PER RISER; BLUE JACKET).
2. (N) (2) CAT6A AT EACH CLASSROOM WAP (WHITE JACKET).
3. F.O. JUMPERS - TO MATCH CABLE PLANT (2M MAX).
4. CAT 6/6A JUMPERS - TO MACH CABLE PLANT (2M MAX).
5. (N) (1) CAT6 CABLE PER EACH SPEAKER DEVICE TERMINATED IN BISCUIT IN TRUE 5S BACKBOX ON WALL. USE WEATHERPROOF BOXES AND METHODS FOR EXTERIOR SPEAKERS. SPEAKER DEVICE SHALL BE PROVIDED BY DISTRICT AND INSTALLED BY CONTRACTOR. EC SHALL TERMINATE AND TEST BISCUIT IN PREPARATION FOR (N) DEVICE.
6. CONTRACTOR SHALL COORDINATE WITH DISTRICT IT STAFF FOR INSTALLATION AND SCHEDULING OF NEW EQUIPMENT TO BE PROVIDED BY THE IT DEPT.
7. (N) 12 STRAND SINGLE-MODE (OS2) IN A SINGLE JACKET (AQUA IN COLOR) AND PLACED IN CONDUIT (SIZES/QUANTITIES PER SITE PLAN). ALL STRANDS SHALL BE TERMINATED IN FIBER SPLICE ENCLOSURES AT EACH END OF THE CABLE INSTALLATION. ALL CABLING BETWEEN EXISTING CAMPUS MDF AND NEW BUILDING IDFS SHALL BE UNDERGROUND/WET LOCATION LISTED. VERIFY CABLE TYPES WITH DISTRICT PRIOR TO SUBMITTALS. REFER TO ELECTRICAL SITE PLANS FOR ROUTING.
8. REFER TO ELECTRICAL SITE PLAN FOR LOCATION.
9. (N) WALL MOUNTED TELECOMMUNICATIONS GROUND BUS BAR PER DETAIL 2/E0.06.
10. (N) THWN, GREEN JACKETED GROUND CONDUCTOR BETWEEN TELECOMMUNICATIONS ROOM GROUND BUS BAR AND BUILDING MAIN ELECTRICAL PANEL EQUIPMENT GROUND BUS ROUTE IN (N) 1" CONDUIT.

GENERAL NOTES

A. CATEGORY CABLING, MODULAR JACKS, AND PATCH CABLES SHALL MATCH COLOR OF (N) CABLE PLANT AS FOLLOWS:
- CAT6 = BLUE IN COLOR.
- CAT6A = WHITE IN COLOR.

B. CAT6 AND CAT6A CABLES, TOTAL LENGTH FROM IDF TO ENDPOINT SHALL NOT BE MORE THAN 295'-0"; CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY LENGTHS IN EXCESS OF 295'-0" PRIOR TO ROUGH-IN INSPECTION.

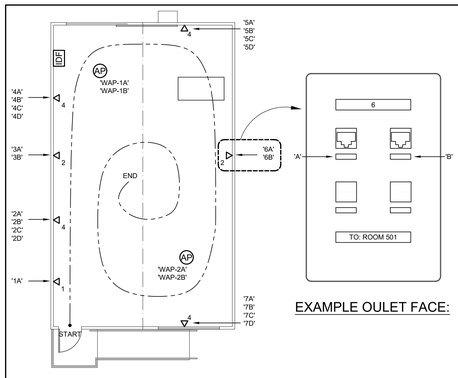
C. CAT6 AND CAT6A CABLES SHOWN AS ROUTED UNDERGROUND BETWEEN BUILDINGS SHALL BE OUTDOOR PLANT RATED AS SHOWN.

D. EC SHALL PROVIDE 10' SERVICE LOOP AT EACH (E) AND (N) PULL-BOX FOR CABLE SHOWN AS (N).

E. DISTRICT TO PROVIDE VOIP (VOICE OVER INTERNET PROTOCOL) PHONE HAND SETS AT EACH NEW CLASSROOM.

F. CABLING TYPES SHALL BE SUITABLE AND RATED FOR THE APPLICATION INSTALLED (PLENUM, UNDERGROUND, ETC.).

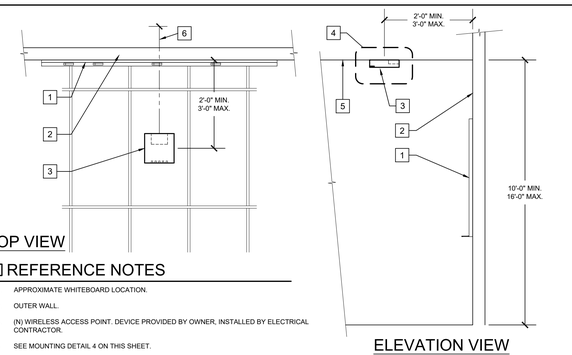
G. ALL FIBER OPTIC CABLES SHALL BE FUSION SPLICED TO PRE-TERMINATED/POLISHED PIG-TAILS IN APPROVED FIBER SPLICE ENCLOSURES AND SPLICE TRAYS.



NOTES:
- ALL OUTLET INDICES SHALL BE ASSIGNED BY POSITION IN ROOM. LABELS SHALL START AT OCCUPANT ENTRANCE TO ROOM.
- WHERE MORE THAN ONE ENTRANCE IS PRESENT, LABEL SHALL BEGIN AT ANY ENTRANCE.
- OUTLET NUMBERS SHALL BE ASSIGNED ACCORDING TO "SPIRAL INWARD" METHOD WHEREBY USER STARTS AT ENTRANCE AND INCREMENTS OUTLET ASSIGNMENT IN CLOCKWISE PATTERN. SEE ABOVE DIAGRAM FOR EXAMPLE ILLUSTRATION.
- WIRELESS ACCESS POINTS SHALL HAVE ADDITIONAL PREFIX 'WAP', AND INDEX SHALL BE SEPARATELY MAINTAINED.

EXAMPLE OULET FACE:

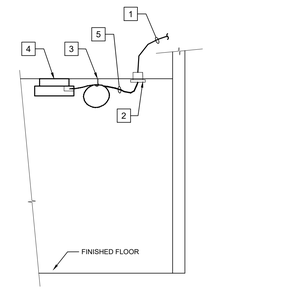
5 DATA OUTLET NAMING CONVENTIONS WITHIN ROOM
SCALE: NTS.



☐ REFERENCE NOTES

1. APPROXIMATE WHITEBOARD LOCATION.
2. OUTER WALL.
3. (N) WIRELESS ACCESS POINT. DEVICE PROVIDED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR.
4. SEE MOUNTING DETAIL 4 ON THIS SHEET.
5. ROOM FINISHED CEILING.
6. COORDINATE WAP CENTERLINE TO WITHIN 24" OF TEACHING SPACE CENTERLINE.

3 INDOOR WAP LOCATION (TYPICAL T-BAR CEILING)
SCALE: NTS.

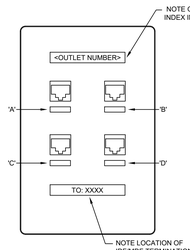


☐ REFERENCE NOTES

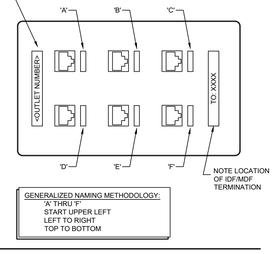
1. DATA CABLING BACK TO TELECOMMUNICATIONS ROOM, WAP CABLING TYPE/COLORS AS DETAILED ON RISER DIAGRAM.
2. (1) (N) 5-SQUARE RECESSED BOX WITH (2) (N) CAT6A FEMALE RJ-45 TERMINATED. FOLLOW COLOR CODING OUTLINED ON RISER DIAGRAM.
3. J-HOOK OR APPROVED MOUNTING AND RETENTION OF SERVICE LOOP
4. WIRELESS ACCESS POINT FLUSH-MOUNT BRACKET. MOUNT TO CEILING USING MANUFACTURER PROVIDED GUIDELINES AND HARDWARE.
5. (2) NEW 2-METER CAT6A PATCH CABLE BETWEEN NEW WIRELESS ACCESS POINT AND OUTLET FACEPLATE. PATCH CABLE TO BE INSERTED INTO RJ-45 PORT LABELED 'PoE'

1 INDOOR WIRELESS ACCESS POINT - HARD LID MOUNT
SCALE: NTS.

VERTICAL ORIENTATION

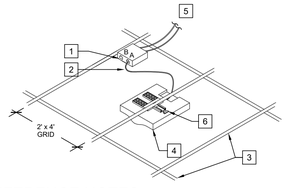


HORIZONTAL ORIENTATION



NOTES:
- ALL JACK LOCATIONS ASSIGNED BY POSITION IN ROOM, SEE "DATA OUTLET NAMING CONVENTIONS WITHIN ROOM" DETAIL FOR ASSIGNMENT METHODOLOGY.
- ALL JACKS TERMINATED AS T568B PINOUT.
- ALL JACKS COLOR TO MATCH INCOMING CABLE PLANT.
- PROVIDE IDENTICAL LABEL AT CORRESPONDING PATCH PANEL LOCATION AND ON CABLE PLANT ITSELF.

6 DATA OUTLET NAMING CONVENTIONS AT FACEPLATE
SCALE: NTS.



GENERAL NOTES

ALL HARDWARE NOTED AS "PROVIDED BY OWNER" SHALL BE BROUGHT TO THE ATTENTION OF OWNER REPRESENTATIVE AT NOTICE TO PROCEED FOR SCHEDULING OF EQUIPMENT ARRIVAL WITHIN CONSTRUCTION TIMELINE. ALL HARDWARE SHALL BE INSTALLED BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY OWNER.

☐ REFERENCE NOTES

1. 2-PORT BISCUIT MOUNTED IN ACCESSIBLE CEILING SPACE. CONTRACTOR SHALL PROVIDE LABELS FOR EACH CABLE AT BISCUIT, AND SHALL TERMINATE (FEMALE) AND TEST BOTH CABLES, AND PROVIDE TEST RESULTS TO OWNER.
2. (1) (N) WHITE, 2-METER CAT6A PATCH CABLE BETWEEN NEW WIRELESS ACCESS POINT AND CAT6A TERMINATION BISCUIT. PATCH CABLE SHALL BE INSERTED INTO RJ-45 PORT LABELED 'PoE' ON WIRELESS ACCESS POINT, AND 'A' CABLE ON BISCUIT.
3. (E) T-BAR CEILING. PENETRATIONS THROUGH CEILING TILES SHALL BE SEALED SO AS TO MAINTAIN FIRE RATING OF CEILING TILE IF APPLICABLE.
4. (N) WIRELESS ACCESS POINT (NOT TO EXCEED 18"X18"X6", WEIGHING NO MORE THAN 8 LBS), TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER OF ACCESS POINT QUANTITIES AND LOCATIONS A MINIMUM OF 6-WEEKS PRIOR TO INSTALLATION DATE.
5. (2) (N) WHITE CAT6A CABLES FROM IDF TO BISCUIT. ALL CAT6A CABLE AND TERMINATION HARDWARE (INCLUDING MODULAR JACKS, PATCH CABLES, ETC.) SHALL BE WHITE IN COLOR.
6. WAP MANUFACTURER PROVIDED T-BAR MOUNTING CLIP. ADHERE STRICTLY TO MANUFACTURER PROVIDED INSTALLATION INSTRUCTIONS.

4 INDOOR WIRELESS ACCESS POINT T-BAR MOUNT
SCALE: NTS.

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IDENTIFICATION STAMP
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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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COMM RISER/COMM DETAILS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E6.1

DANA ELEMENTARY SCHOOL

PHOTOVOLTAIC DESIGN

6.24KW DC, 4.99KW AC

SOLAR PHOTOVOLTAIC SYSTEM GENERAL NOTES

1. CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:
   A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA FIRE CODE, 2022 CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE.
   B. COUNTY OF SAN LUIS OBISPO.
   C. AMERICANS WITH DISABILITIES ACT (ADA).
2. PV PANEL SIZE, LAYOUT AND QUANTITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND PROVIDE COMPLETE MODULE PANEL, CONDUITS, CABLING COMBINER, INVERTER AND ASSOCIATED SUPPORT SYSTEM FOR A COMPLETE TURNKEY PV SYSTEM COMPLYING WITH DESIGN REQUIREMENTS.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2022 CBC, 2022 CFC AND 2022 CEC WITH SPECIAL EMPHASIS ON ARTICLE 690.
4. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED , LISTED AND IDENTIFIED UL 1703 .
5. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY A RECOGNIZED ELECTRICAL TESTING LABORATORY.
6. ALL DC MATERIALS (FUSES, EQUIPMENT, CONNECTORS, WIRES, ETC.) TO BE UL LISTED FOR 600VDC OR 1000VDC WHERE APPLICABLE.
7. MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL COMPONENTS OF THE SOLAR PV SYSTEM SHALL BE KEPT ON THE PROJECT SITE AND MADE AVAILABLE UPON REQUEST OF THE INSPECTOR.
8. CONTRACTOR SHALL NEVER LEAVE A MODULE UNSUPPORTED OR UNSECURED. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL HANDLING ON THE JOBSITE. MODULES SHALL BE SECURED WITH A MINIMUM (4) POINTS OF CONTACT.
9. SOLAR SYSTEM SHALL NOT COVER ANY PLUMBING OR MECHANICAL VENTS.
10. PHOTOVOLTAIC MODULES SHALL MAINTAIN 4 FEET CLEAR FROM ALL ROOF EDGES, PER CSFM INSTALLATION GUIDELINES AND CFC REQUIREMENTS.
11. ALL PV MODULES AND ASSOCIATED EQUIPMENT AND WIRING SHALL BE PROTECTED FROM ANY PHYSICAL DAMAGE.
12. ALL HARDWARE ON THE ROOF SHALL BE STAINLESS STEEL, IN COMBINATION WITH ALUMINUM FITTINGS AND RAILINGS, UNLESS OTHERWISE NOTED.
13. CONTRACTOR SHALL SUPPLY AND INSTALL FASTENING HARDWARE PER STRUCTURAL DRAWINGS AND PV MOUNTING SYSTEM MANUFACTURER'S RECOMMENDATIONS.
14. ALL SHARP EDGES AND FASTENER TIPS SHALL BE COVERED OR CRIMPED OVER AS TO NOT PROVIDE A SHARP EDGE WHERE EMERGENCY RESPONDERS OR ANY OTHER INDIVIDUAL ACCESSING THE ROOFTOP MAY BE INJURED.
15. LIVE PARTS OF PV SOURCE CIRCUITS AND PV OUTPUT CIRCUITS OVER 150V TO GROUND SHALL NOT BE ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS WHILE ENERGIZED.
16. INVERTER SHALL BE EQUIPPED W/ INTEGRATED GFDI, THUS PROVIDING GROUND FAULT PROTECTION.
12. RACKING SYSTEM SHALL BE LISTED TO UL 2703.
13. MODULES AND SUPPORT STRUCTURES SHALL BE GROUNDED. ALL METALLIC COMPONENTS OF THE SOLAR PHOTOVOLTAIC SYSTEM (AC AND DC SYSTEMS INCLUDED) SHALL BE GROUNDED AND BONDED PER CEC ARTICLES 250 AND 690. PV MODULES SHALL BE GROUNDED TO MOUNTING RAILS USING MODULE LUGS OR RACKING INTEGRATED GROUNDING CLAMPS. ALL OTHER EXPOSED METAL PARTS SHALL BE GROUNDED USING UL LISTED LAY-IN LUGS. PROVIDE BONDING STRAPS BETWEEN INDIVIDUAL RAILS JOINING TO FORM A MULTI-PIECE RAILING SYSTEM. EACH RAILING SYSTEM SHALL BE BONDED TO THE GROUNDING SYSTEM WITH A MINIMUM #6 COPPER CONDUCTOR.
14. GROUNDING LUGS SHALL BE SPECIFIED AND LOCATED ACCORDING TO THE PHOTOVOLTAIC PANEL MANUFACTURER'S REQUIREMENTS.
15. PER CEC 250.92, NON-CURRENT CARRYING METAL PARTS OF EQUIPMENT SHALL BE EFFECTIVELY BONDED TOGETHER. BOND BOTH ENDS OF RACEWAYS.
16. COPPER BONDING CONDUCTORS SHALL BE KEPT CLEAR OF CONTACT FROM RACKING SYSTEM AND ALL OTHER ALUMINUM MATERIALS TO AVOID CATHODIC CORROSION.
17. CONDUIT RACEWAYS SHALL BE PROVIDED WITH EXPANSION FITTINGS TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION. CEC 300.7(b), 352.44
18. EQUIPMENT GROUNDING CONDUCTOR REQUIRED IN RACEWAYS SHALL BE SIZED PER CEC 250.166.
19. ALL CONDUCTORS SHALL BE COPPER AND 90 DEG RATED. ALL WIRING IN CONDUIT SHALL BE THHN/THWN-2. ALL EXPOSED OR HOMERUN WIRING SHALL BE PV WIRE/USE-2/RHW-2. BARE COPPER SHALL BE PERMITTED FOR GROUND WHERE USED WITHIN THE ARRAY FOOTPRINT.
20. ALL EXPOSED CABLES, SUCH AS MODULE LEADS, SHALL BE SECURED WITH UV RATED PLASTIC OR OTHER APPROVED SUNLIGHT RESISTANT MEANS WITH A 25 YEAR LIFE.
21. ALL EXPOSED CONDUIT (ASIDE FROM ROOF MOUNTED CONDUIT) SHALL BE PAINTED TO MATCH BUILDING SURFACE. ANY EXPOSED CONDUIT SHALL BE APPROVED BY OWNER IN ADVANCE OF INSTALLATION.
22. ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE UL LISTED RAIN TIGHT AND SHALL BE APPROVED FOR WET LOCATIONS PER CEC 314.15.
23. ROOFTOP PENETRATIONS SHALL BE COMPLETED AND SEALED PER CODE BY A LICENSED CONTRACTOR AND IN ACCORDANCE WITH THE ROOFING MANUFACTURER'S REQUIREMENTS TO MAINTAIN THE ROOF WARRANTY AND ROOF FIRE RATING (AS APPLICABLE).
24. ROOF ATTACHMENTS AND STAND-OFFS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS, AND ATTACHED TO THE ROOF STRUCTURE PER STRUCTURAL REQUIREMENTS AND AS OTHERWISE DESCRIBED IN THESE CONSTRUCTION DOCUMENTS. COPIES OF MANUFACTURER'S MOUNTING DETAILS AND INSTRUCTIONS SHALL BE PRESENTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
25. ROOF ATTACHMENTS SHALL BE MADE WITH APPROVED SEALANT. COORDINATE WITH ARCHITECT FOR ROOF PENETRATION SEALING REQUIREMENTS.
26. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SIGNAGE TO ALL ELECTRIC BOXES, JUNCTION BOXES, PULL BOXES, DC DISCONNECTS, CONDUITS RUNS, AC DISCONNECTS, SUB PANELS, INVERTERS, AND MAIN SERVICES PER CEC ARTICLE 690.
27. SIGNS OR DIRECTORIES SHALL BE ATTACHED TO THE ELECTRICAL EQUIPMENT OR LOCATED ADJACENT TO THE IDENTIFIED EQUIPMENT.
28. SIGNS SHALL BE OF A SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT.
29. ANY PLAQUES WILL BE METAL OR PLASTIC WITH ENGRAVED OR MACHINE PRINTED LETTERS, OR ELECTRO-PLATING, IN A RED BACKGROUND WITH WHITE LETTERING, A MINIMUM OF 3/8" HEIGHT.
30. PHOTOVOLTAIC SYSTEM SHALL BE MONITORED VIA APPROVED WEB-BASED PERFORMANCE MONITORING SYSTEM. INFORMATION TO BE PROVIDED BY THE SYSTEM SHALL MEET APPENDIX JA11.5.1 AT A MINIMUM. MONITORING SYSTEM INTEGRAL WITH INVERTER SHALL BE ACCEPTABLE. INCLUDE ALL NECESSARY HARDWARE, SOFTWARE AND LICENSING (MINIMUM 1 YEAR), CABLING AND CONNECTIONS FOR A COMPLETE AND OPERATIONAL WEB-BASED PERFORMANCE MONITORING SYSTEM, INTERFACE WITH OWNER'S ETHERNET SYSTEM. PROVIDE 1 DAY OF TRAINING AND MANUFACTURER'S SUBSCRIPTION INFORMATION TO THE OWNER.
31. CONTRACTOR SHALL SUBMIT PG&E NET ENERGY METERING (NEM3) INTERCONNECTION APPLICATION AND PAPER WORK. MOREOVER, CONTRACTOR SHALL NOTIFY AND OBTAIN APPROVAL FROM LOCAL UTILITY PRIOR TO USE AND ACTIVATION OF ANY SOLAR PV INSTALLATION. CONTRACTOR SHALL COORDINATE ALL INSPECTIONS, TESTING COMMISSIONING, AND ACCEPTANCE WITH THE OWNER, UTILITY COMPANY, AND INSPECTOR OF RECORD AS NEEDED.
32. START UP, COMMISSIONING AND TRAINING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR START UP AND COMMISSIONING OF THE SOLAR PHOTOVOLTAIC SYSTEM, AS REQUIRED TO SATISFY THE SYSTEM COMPONENTS SHOWN ON THESE CONSTRUCTION DOCUMENTS, AND TO SATISFY AHJ(S) AND INSPECTOR(S). REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO COMMISSIONING. PROVIDE TRAINING FOR THE SYSTEM'S OPERATION, MAINTENANCE, AND PROGRAMMING, SPECIFIC TO THE INSTALLED EQUIPMENT AND SYSTEMS.

SOLAR + BESS SYSTEM SUMMARY:

PV-DC SYSTEM SIZE: 6.24 KW-DC
PV-AC SYSTEM SIZE: 4.99 KW-AC
*PV AC-CEC SYSTEM SIZE = (# MODULES) * (SOLAR PTC WATTAGE) * (INVERTER CEC EFFICIENCY)*
*=((12) * (494W) * (0.97)) = 5.750W OR 5.75KW-AC*

SOLAR MODULES:
(12) 520W (JINKO SOLAR TR 72CELL JKM520M-7TL4-V) (494W-PTC)
MODULE AMPERAGE: 12.85A ISC, 13.53A IMP
MODULE VOLTAGE: 48.99VOC, 40.47VMP
TEMP COEFF. OF VOC: -0.28%/°C
MODULE DIMENSIONS: 87.80"L X 44.65"W X 1.38"H
MODULE WEIGHT: 63.71LBS
TOTAL ARRAY WEIGHT (LESS RACKING AND BALANCE OF SYSTEMS): ~ 765LBS;
25-YEAR MANUFACTURER LINEAR PERFORMANCE WARRANTY

INVERTERS:
(1) SMA SUNNY BOY 208V 1-PH(SBSE5.8)
MAX AC OUTPUT CURRENT: 24A
MAX PV DC INPUT CURRENT PER MPPT: 15A
MAX PV DC INPUT VOLTAGE (DC+ TO DC -): 480V
MPPT DC VOLTAGE RANGE (DC+ TO DC -): 136-480V
MINIMUM STARTING VOLTAGE (DC+ TO DC -): 56V
CEC EFFICIENCY: 97.0%
CEC 690.12 RAPID SHUTDOWN COMPLIANT/CERTIFIED WITH SunSpec RAPID SHUTDOWN DEVICE
INVERTER WEIGHT: 38.6LBS
10 YEAR STANDARD WARRANTY

RAPID SHUTDOWN DEVICES:
(12) JMS-F SUN SPEC (JMS-F) (FOR USE WITH SMA SUNNY BOY 5.8KW SYSTEM)
MAX DC INPUT VOLTAGE: 80V (AT VOC LOW TEMP)
OPERATING VOLTAGE RANGE: 10 - 60VDC
MAX INPUT CURRENT PER CHANNEL: 15 A-DC
RAPID SHUTDOWN: SMA JMS-F SUNSPEC RAPID SHUTDOWN DEVICE COMPLY WITH CEC 690.12 REQUIREMENTS

BATTERY STORAGE ENERGY SYSTEM:
EXEMPT PER TITLE 24 SECTION 140.10(b) EXCEPTION 3. FOR SINGLE-TENANT BUILDINGS WITH LESS THAN 5,000 SQUARE FEET OF CONDITIONED FLOOR AREA, NO BATTERY STORAGE SYSTEM IS REQUIRED.

ROOF RACKING SYSTEM INFORMATION:
ROOF PITCH: 18.43-DEGREES (4:12 SLOPE)
PV ARRAY PITCH: 18.43-DEGREES (FLUSH MOUNT)
ARRAY AZIMUTH: 202° (SOUTH-WEST)
RACKING SYSTEM: IRONRIDGE XR100 SYSTEM (UL2703 APPROVED FOR INTEGRATED GROUNDING AND FIRE CLASS A RATED) OR EQUAL
ATTACHMENT STANDOFFS: PER STRUCTURAL
FLASHINGS: PER STRUCTURAL

ELECTRICAL UTILITY SERVICE INFORMATION:
SERVED BY: PACIFIC GAS & ELECTRIC
MAIN SERVICE PANEL BUS SIZE: 1200A
MAIN SERVICE BREAKER SIZE: 1000A (DE-RATED)
MAIN SERVICE VOLTAGE CONFIGURATION: 208Y/120V, 3PH, 4W
POC METHOD: LOAD-SIDE CONNECTION IN DISTRIBUTION PANELS

ENVIRONMENTAL INFORMATION:
PROJECT LATITUDE/LONGITUDE: 35.027908, -120.497558
ASHRAE LOW TEMP: -1.5°C (SAN LUIS CO RGNL, CA)

SCOPE OF WORK

THE PROJECT CONSIT OF INSTALLING A ROOF MOUNTED PV SYSTEM (FLUSH MOUNTED) INSTALLED ON NEW CLASSROOM WING BUILDING 'B60B'. INTERCONNECTION POINT OF CONNECTION WILL BE WITH NEW CLASSROOM PANELBOARD 'P60B'. THE SOLAR POWER SYSTEM CONSIST OF PV MOUNTING RACK, ELECTRICAL EQUIPMENT, AND PV MONITORING.

SHEET INDEX

SHEET NO.	NEW CLASSROOM AT DANA ELEMENTARY SCHOOL
PV0.01	PHOTOVOLTAIC GENERAL NOTES, LEGEND, AND ABBREVIATIONS
PV0.02	PHOTOVOLTAIC SINGLE LINE DIAGRAM
PV0.03	PV LABELS
PV0.20	PHOTOVOLTAIC SITE PLAN
PV1.0	PV ARRAY PLAN
PV1.1	PHOTOVOLTAIC DETAILS
PV1.2	PV MODULE INSTALLATION MANUAL
PV1.3	PV MODULE INSTALLATION MANUAL
PV2.0	PV T24 COMPLIANCE FORMS

VICINITY MAP



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PHOTOVOLTAIC GENERAL NOTES, LEGEND, & ABBREVIATIONS

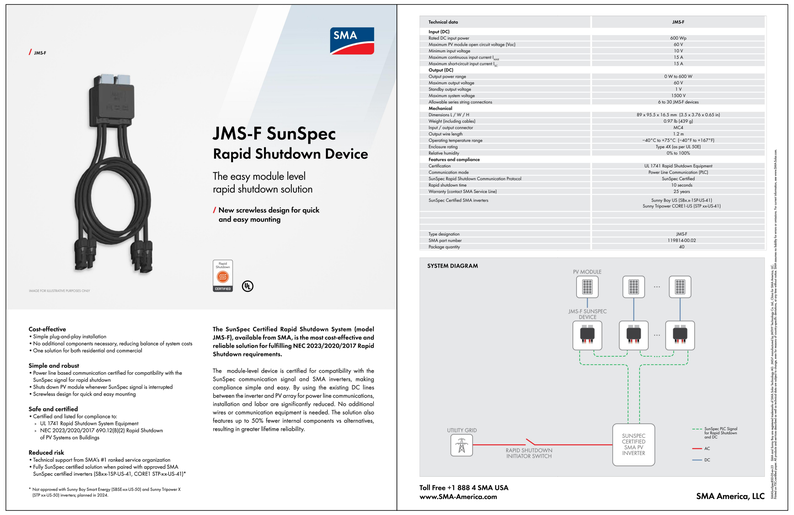
NEW CLASSROOMS AT
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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
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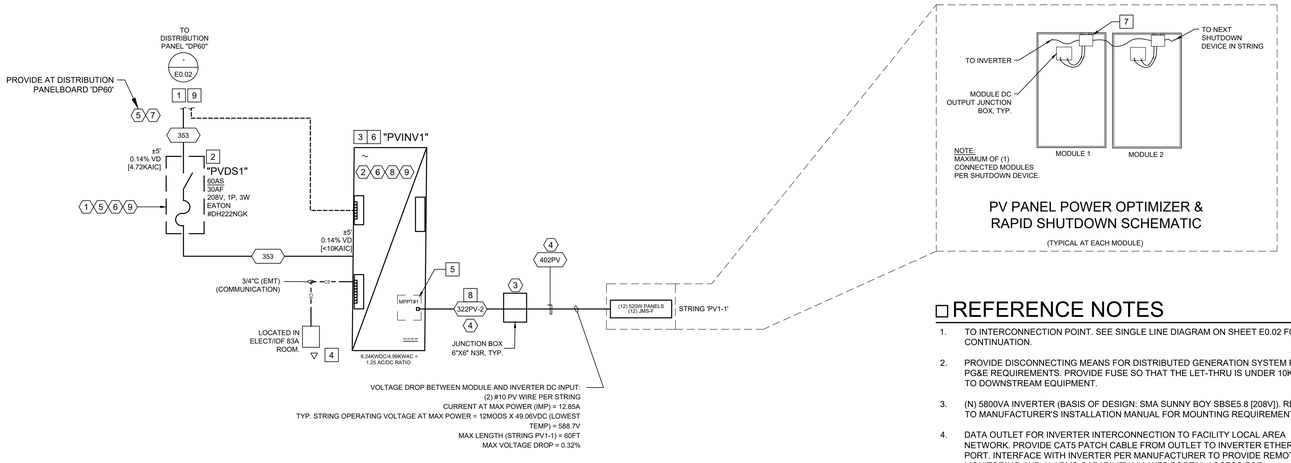
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3 RAPID SHUTDOWN DEVICE

SCALE: NTS



REFERENCE NOTES

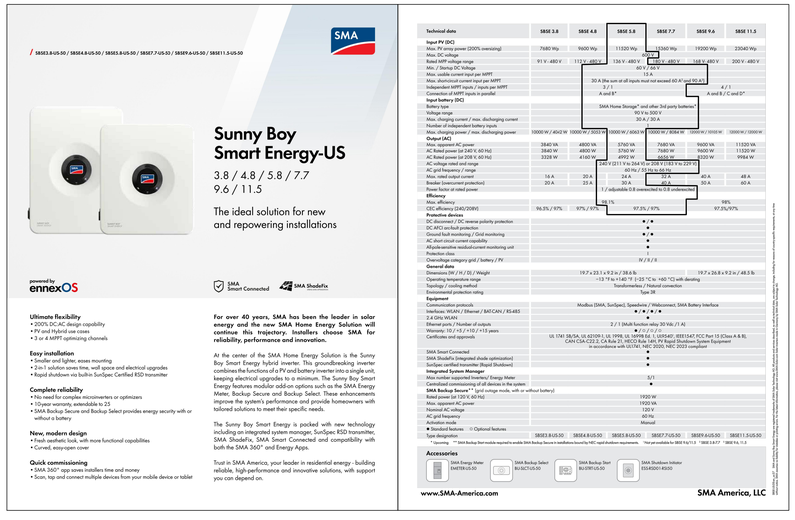
1. TO INTERCONNECTION POINT. SEE SINGLE LINE DIAGRAM ON SHEET E0.02 FOR CONTINUATION.
2. PROVIDE DISCONNECTING MEANS FOR DISTRIBUTED GENERATION SYSTEM PER PG&E REQUIREMENTS. PROVIDE FUSE SO THAT THE LET-THRU IS UNDER 10KAIC TO DOWNSTREAM EQUIPMENT.
3. (N) 5800VA INVERTER (BASIS OF DESIGN: SMA SUNNY BOY SBSE5.8 [208V]). REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR MOUNTING REQUIREMENTS.
4. DATA OUTLET FOR INVERTER INTERCONNECTION TO FACILITY LOCAL AREA NETWORK. PROVIDE CAT5 PATCH CABLE FROM OUTLET TO INVERTER ETHERNET PORT. INTERFACE WITH INVERTER PER MANUFACTURER TO PROVIDE REMOTE MONITORING AND ALARMS CAPABILITY VIA WEB PORTAL ACCESS FOR COMPLIANCE WITH CA ENERGY CODE APPENDIX JA11.5.1.
5. 90°C RATED PV DC INPUT TERMINALS, TYP. INSTALL 15A FUSE AT MPPT INPUT.
6. RAPID-SHUTDOWN ACTIVATOR (SMA SUNNY BOY SBSE5.8 VIA SUN SPEC) IS INITIATED BY ON OF THE FOLLOWING METHODS:
   6.1. INVERTER AC BREAKER IS TURNED OFF, OR AC INVERTER IS DISONNECTED BY ANTOTHER METHOD (INTENTIONALLY OR AS RESULT OF A FAULT)
   6.2. INVERTER ON/OFF SWITCH IS TURNED OFF
   6.3. THE DC SAFETY UNIT IS TURNED OFF.
7. MODULE LEVEL RAPID SHUTDOWN PROVIDED VIA SMA (JMS-F) SUNSPEC SHUTDOWN DEVICE OR APPROVED EQUAL. MOUNT TO SYSTEM RACKING VIA MANUFACTURER PROVIDED MOUNTING BRACKET AND SCREW/WASHER HARDWARE. GROUND TO RAIL SYSTEM PER MANUFACTURER INSTRUCTIONS
8. ROUTE PV STRING CONDUCTORS IN ROOF MOUNTED CONDUIT BETWEEN ARRAY JUNCTION BOXES AND INVERTER UNITS.
9. (1) 3/4"C WITH CT CABLING TO MONITORING SYSTEM.

	COPPER FEEDER SCHEDULE		
FEEDER NO.	RACEWAY QUANTITY/SIZE	CONDUCTORS
402PV	EXPOSED TO FREE AIR	(2) #10 PV WIRE (USE-2 XLP) & (1) #10 BARE CU GND.
322PV-2	(1) 3/4"C	(2) #10 THHN/THWN-2 & (1) #10 GND.
353	(1) 3/4"C	(3) #10 THWN & (1) #10 GND.

	SIGNAGE/WARNING LABELS		
LABEL NO.	EQUIPMENT	LABEL DETAIL
1	AC DISCONNECT	LABEL REQUIREMENT PER CEC 690.13(B) AND CEC 705.20(7). REFER TO DETAIL 1/PV0.03
2	SOLAR INVERTER	LABEL REQUIREMENT PER CEC 690.13(B) AND CEC 705.20(7). REFER TO DETAIL 2/PV0.03
3	JUNCTION BOX	LABEL REQUIREMENT PER CEC 690.13(B) AND CEC 705.20(7). REFER TO DETAIL 3/PV0.03.
4	CONDUIT/RACEWAYS	LABEL REQUIREMENT PER CEC 690.31(D)(2). REFER TO DETAIL 3/PV0.03.
5	PCC/AC DISCONNECT	LABEL REQUIREMENT PER CEC 705.12(B)(3). REFER TO DETAIL 4/PV0.03.
6	PV SYSTEM DISCONNECT	LABEL REQUIREMENT PER CEC 690.13(B), CEC 705.20(7). REFER TO DETAIL 5/PV0.03.
7	PLACARD	LABEL REQUIREMENT PER CEC 690.56, CEC 705.10. REFER TO DETAIL 6/PV0.03.
8	DC DISCONNECT	LABEL REQUIREMENT PER CEC 690.53. REFER TO DETAIL 7/PV0.03.
9	AC DISCONNECT/ INVERTER	LABEL REQUIREMENT PER CEC 690.53. REFER TO DETAIL 8/PV0.03.

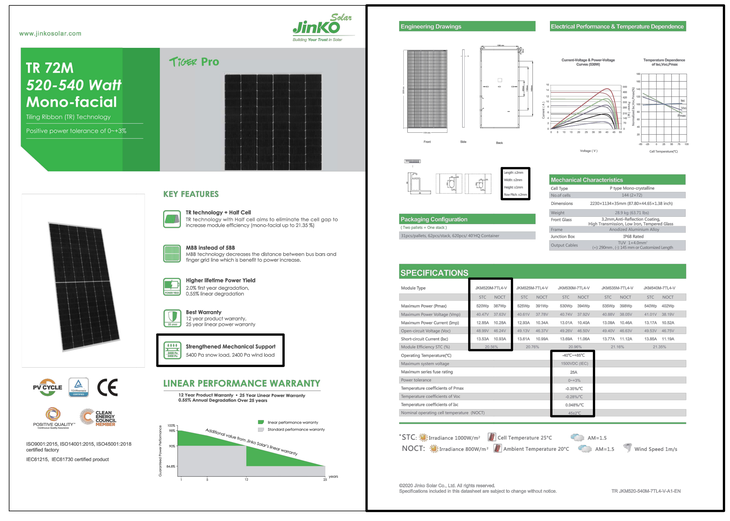
1 PHOTOVOLTAIC SINGLELINE DIAGRAM

SCALE: NTS



4 PV INVERTER (SMA SUNNY BOY 5.8KW)

SCALE: NTS



2 PV SOLAR MODULE (JINKO 520W)

SCALE: NTS

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PHOTOVOLTAIC SINGLE LINE DIAGRAM

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

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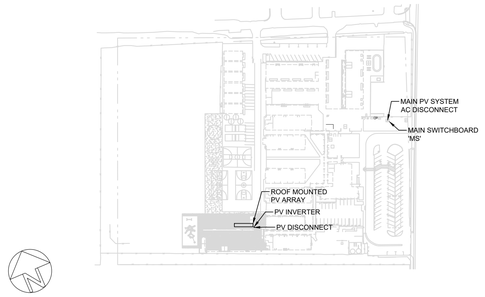
PV0.02

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

9 PROVIDE AT AC DISCONNECT
CEC 705.20(7), CEC 690.13(B)

CAUTION

MULTIPLE SOURCES OF POWER. LOCATION OF POWER SOURCES AND DISCONNECTING MEANS IS SHOWN ON THE SITE PLAN BELOW



6 PROVIDE PLACARD AT ELEC/IDF 83A AND AT MAIN SWITCHBOARD 'MS'
CEC 705.10, CEC 690.56

WARNING

ELECTRICAL SHOCK HAZARD
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

1 PROVIDE AT EACH AC DISCONNECT/BREAKER PANEL
CEC 705.20(7), CEC 690.13(B)

WARNING

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

2 PROVIDE AT EACH PULL BOXES
CEC 705.20(7), CEC 690.13(B)

MAXIMUM DC VOLTAGE: 600VDC
MAXIMUM CIRCUIT CURRENT: 30A

7 PROVIDE AT DC DISCONNECT
CEC 690.53

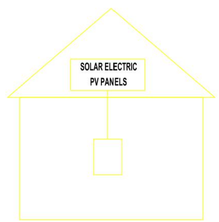
SOLAR PV DC CIRCUIT

PHOTOVOLTAIC POWER SOURCE

3 PROVIDE AT EACH CONDUIT/RACEWAYS
CEC 690.31(D)(2)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE 'OFF' POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY



WARNING DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

4 PROVIDE AT PCC/AC DISCONNECT
CEC 705.12(B)(3)

RATED AC OUTPUT CURRENT 24A
NOMINAL OPERATING VOLTAGE 208VAC

8 PROVIDE AT AC DISCONNECT/INVERTER
CEC 690.53

5 PROVIDE AT PV SYSTEM DISCONNECT
CEC 705.20(7), CEC 690.13(B)

LABELS GENERAL NOTES

1. LABELS SHALL BE WEATHER RESISTANT AND CONFORM TO UL 969 UNLESS OTHERWISE SPECIFIED.
2. ALL LABELS SHALL HAVE ALL CAPITAL LETTERS WITH A MINIMUM 3/8" LETTER HEIGHT UNLESS OTHERWISE SPECIFIED. BACKING SHALL BE RED, LETTERS SHALL BE REFLECTIVE WHITE UNLESS NOTED OTHERWISE.
3. MAIN SERVICE DISCONNECT MARKING SHALL BE PLACED IN A VISIBLE LOCATION ADJACENT TO MAIN SERVICE DISCONNECT.
4. THE CONTRACTOR SHALL NOT USE SCREWS FOR INSTALLATION OF LABELS. FASTEN TO SURFACE USING ADHESIVE PER MANUFACTURER'S RECOMMENDATION.
5. THE LABELS EXAMPLES SHOWN ON THIS SHEET ARE NOT THE ONLY LABLES THAT NEED TO BE PROVIDED. THE CONTRACTOR SHALL INSTALL ALL ADDITIONAL LABLES (AS APPLICABLE) PER THE FOLLOWING CEC 2022 SECTIONS; 690.4(B), 690.12(B), 690.13(B), 690.15(C), 690.31(B), 690.51, 690.52, 690.53, 690.54, 690.55, 690.56, 705.10, 705.12(B)(2)(3)(b) & 705.12(b)(2)(3)(c).
6. PROVIDE ADDITIONAL SIGNAGE AS REQUIRED BY UTILITY.

EQUIPMENT SIGNAGE AND WARNING LABELS

1. "WARNING: ELECTRIC SHOCK HAZARD. DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION."
2. TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL.
3. CONDUIT LABEL ON ALL INTERIOR AND EXTERIOR DC CONDUIT AND ENCLOSURES EVERY 10FT, AT ALL BENDS AND BOTH SIDES OF PENTRATIONS: "WARNING: SOLAR PV DC CIRCUIT"
4. "WARNING: DUAL POWER SOURCE. SECOND SOURCE IS PV SYSTEM"
5. "PV SYSTEM DISCONNECT--RATED AC OUTPUT CURRENT: 24A. NOMINAL OPERATING AC VOLTAGE: 208VAC."
6. PROVIDE PLACARD SHOWING LOCATION OF ARRAY, INVERTERS, MAIN SWITCHBOARD, METER, AND PV SYSTEM AC DISCONNECT. LABEL "CAUTION: MULTIPLE SOURCES OF POWER. LOCATION OF POWER SOURCES AND DISCONNECTIN MEANS IS SHOWN ON THE SITE PLAN BELOW."
7. "MAXIMUM DC VOLTAGE 600VDC OF PV SYSTEM".
8. "SOLAR PV SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN. TURN RAPID SHUTDOWN SWITCH TO THE 'OFF' POSITION TO SHUTDOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY"
9. "RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM"

SIGNAGE NOTES: ALL MARKING SHALL CONSIST OF UV & WEATHER RESISTANT, REFLECTIVE MATERIAL WITH ENGRAVED OR MACHINE PRINTED LETTERS OR ELECTRO- PLATING, RED BACKGROUND WITH WHITE TEXT AND LINE WORK, ARIAL FONT, SIZED APPROPRIATELY AND PLACED IN THE LOCATIONS SPECIFIED AND PER CEC 690, 705, 706 AND CFC 1205 REQUIREMENTS.

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PV LABELS

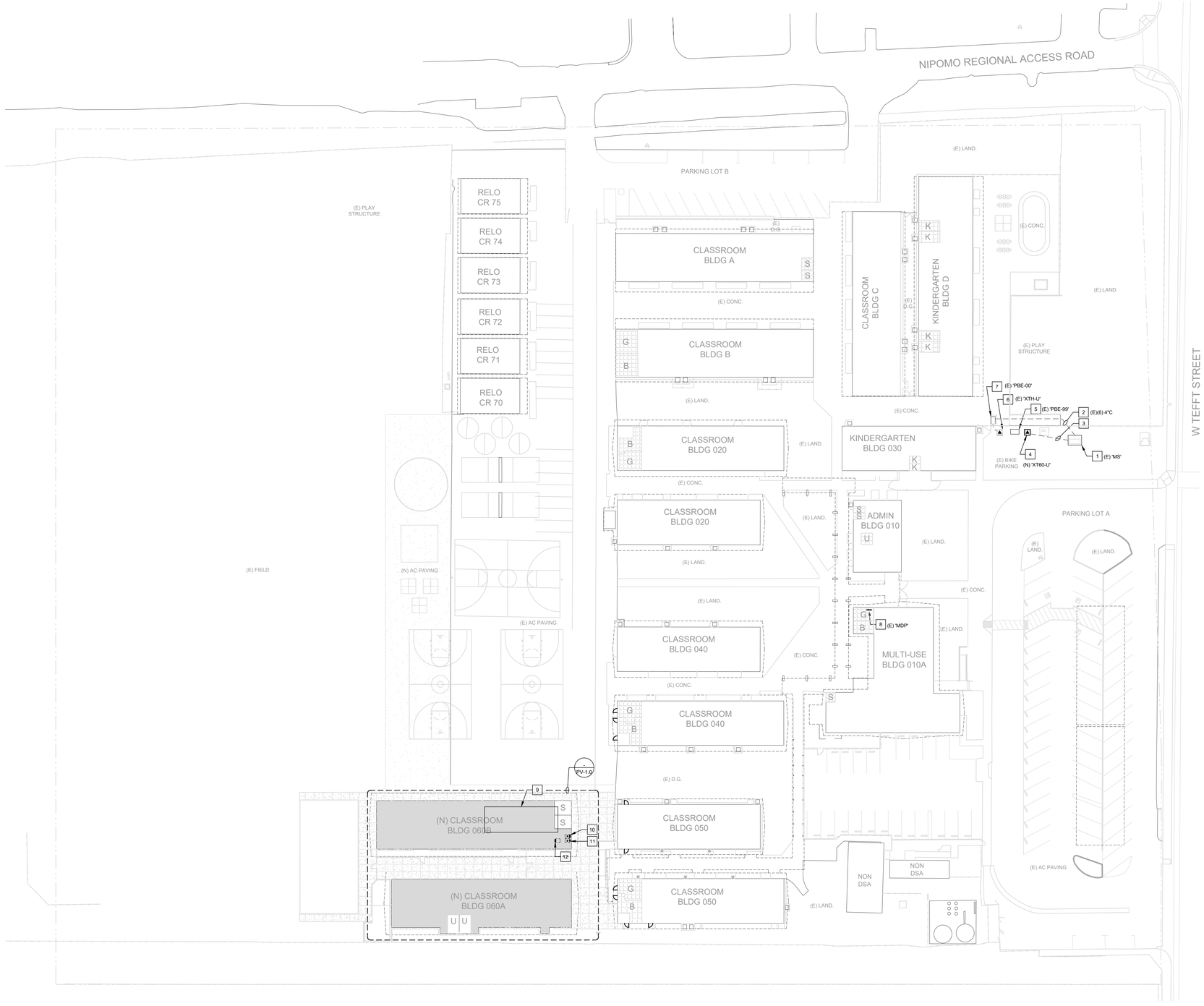
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PV0.03

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PHOTOVOLTAIC SITE PLAN

SCALE: 1" = 30'

NORTH

NOTE:
ROUTING SHOWN FOR ALL EXISTING UNDERGROUND CONDUITS IS APPROXIMATE. FIELD VERIFY EXISTING ROUTING AND LOCATION.

□ REFERENCE NOTES

1. (E) CAMPUS MAIN ELECTRICAL SERVICE TO REMAIN. REFER TO SINGLE LINE DIAGRAM FOR WORK IN DISTRIBUTION SECTION OF GEAR.
2. (E) UNDERGROUND ELECTRICAL FEEDER CONDUITS (SIZE AND QUANTITY AS NOTED). REFER TO SINGLE LINE DIAGRAM FOR (N) AND (E) CONTENTS.
3. NEW FEEDER TO NEW STEP-UP TRANSFORMER. REFER TO E0.02 FOR FEEDER SPECIFICATION.
4. NEW STEP-UP TRANSFORMER. REFER TO E0.02 FOR TRANSFORMER RATING AND REQUIREMENTS.
5. (E) 3'x5' ELECTRICAL VAULT TO REMAIN. REFER TO SINGLE LINE DIAGRAM FOR ANY WORK TO TAKE PLACE INSIDE OF (E) VAULT.
6. (E) PAD MOUNTED TRANSFORMER TO REMAIN.
7. (E) UNDERGROUND ELECTRICAL FEEDER TO REMAIN--NO SCOPE OF WORK.
8. (E) ELECTRICAL DISTRIBUTION PANEL IN (E) ELECTRICAL CLOSET AT (E) MULTI-USE BUILDING '10A' TO REMAIN.
9. APPROXIMATE LOCATION OF PV ARRAY. REFER TO ENLARGED PLAN PV-2.0 FOR ARRAY STRINGING AND INSTALLATION REQUIREMENTS.
10. NEW SOLAR INVERTER. BASIS OF DESIGN: SMA SUNNY BOY SBSE5.8. INSTALL PER MANUFACTURER REQUIREMENTS. REFER TO DETAIL 6/PV1.1 FOR ANCHORAGE REQUIREMENTS.
11. PHOTOVOLTAIC AC DISCONNECT. PROVIDE WITH VISIBLE BLADE WINDOW IN NEMA 1 RATING ENCLOSURE.
12. PHOTOVOLTAIC POINT OF CONNECTION COUPLING (PCC) INSTALLED ON LOAD SIDE AT PANELBOARD 'DP60'.

GENERAL SITE PLAN NOTES

A. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300.5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE IMPOSED BY PROJECT SPECIFICATION. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WERE PERMITTED BY THIS SPECIFICATION.

B. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

C. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.

D. PUMPING OF EXCESS WATER FROM EXISTING PULL BOXES, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE WITH DISTRICT FOR APPROPRIATE DISPOSAL OF EXCESS WATER.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
NO. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8049

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

PHOTOVOLTAIC SITE PLAN

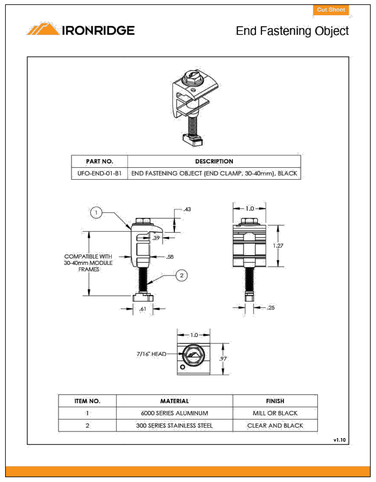
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. ITEM DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

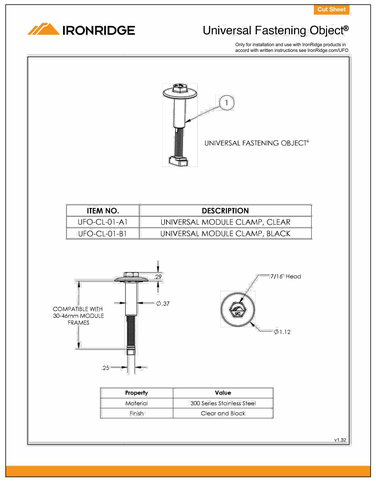
PV0.20

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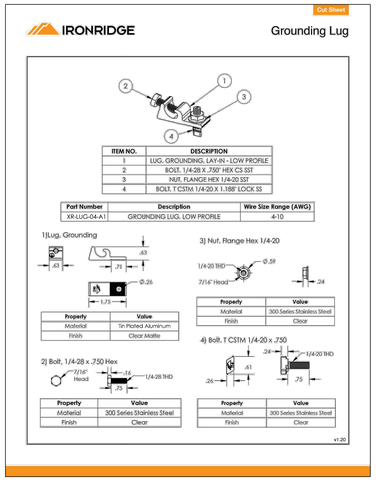
5 END FASTENING OBJECT (EFO)

SCALE: NTS



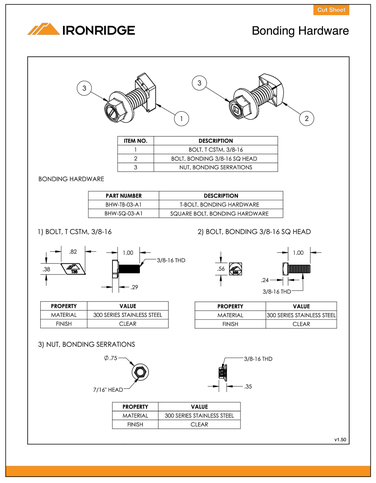
2 UNIVERSAL FASTENING OBJECT (UFO)

SCALE: NTS



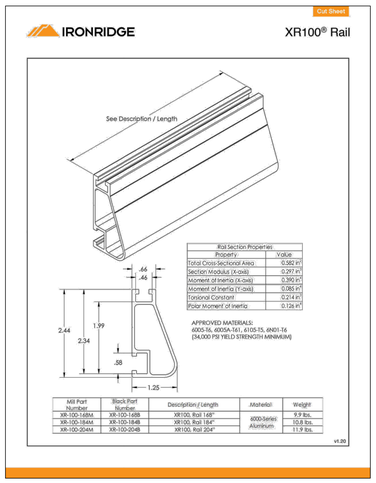
6 GROUNDING LUG

SCALE: NTS



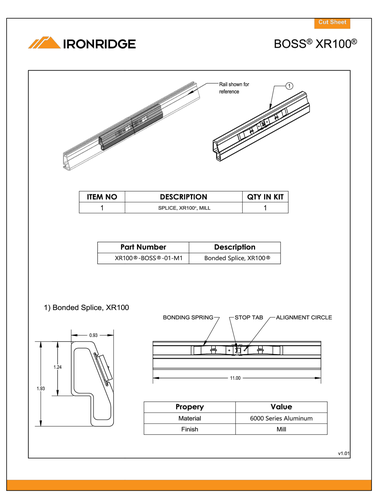
3 BONDING HARDWARE

SCALE: NTS



7 XR100 RAIL

SCALE: NTS

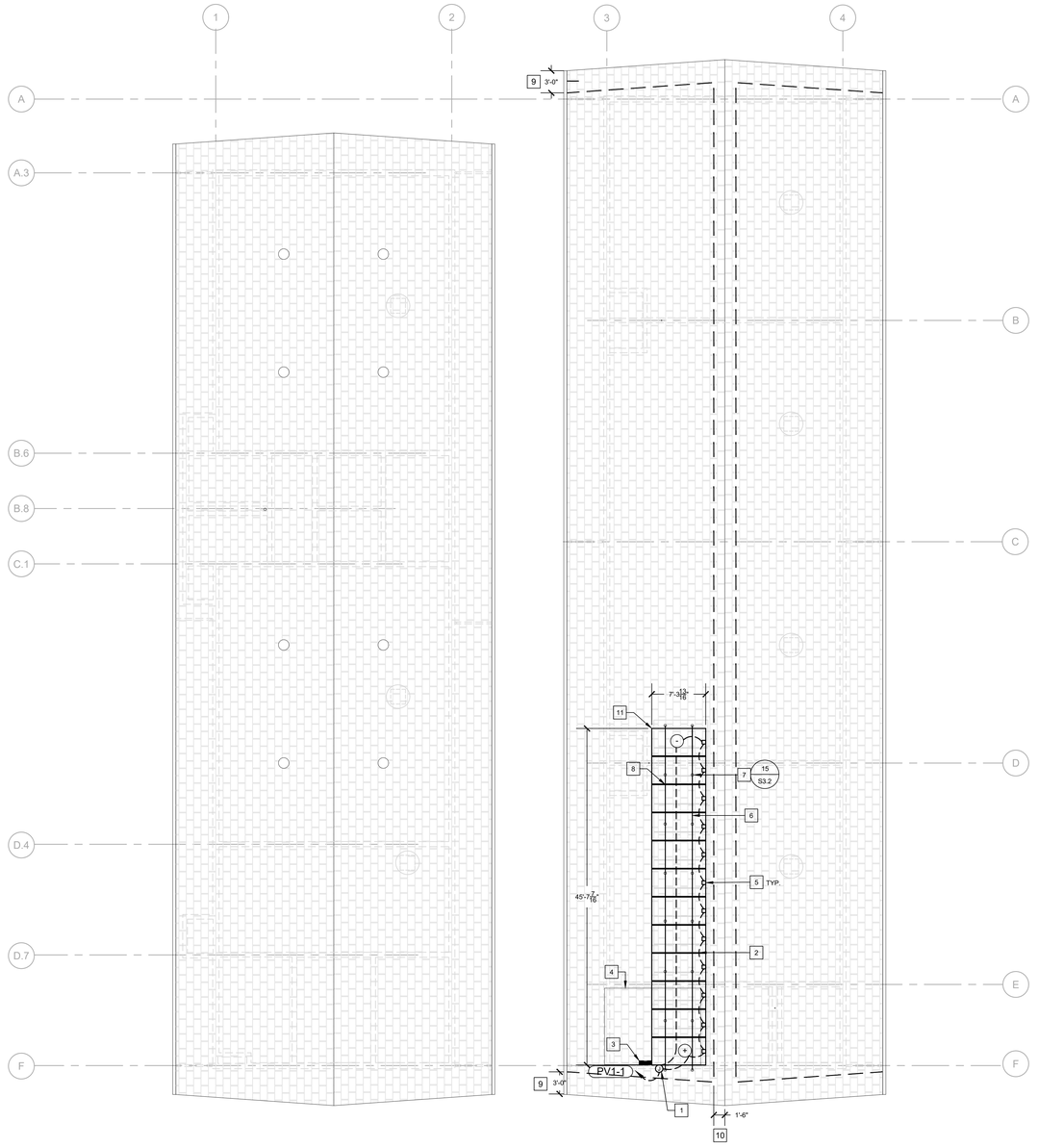


4 BOSS XR100 SPLICE

SCALE: NTS

REFERENCE NOTES

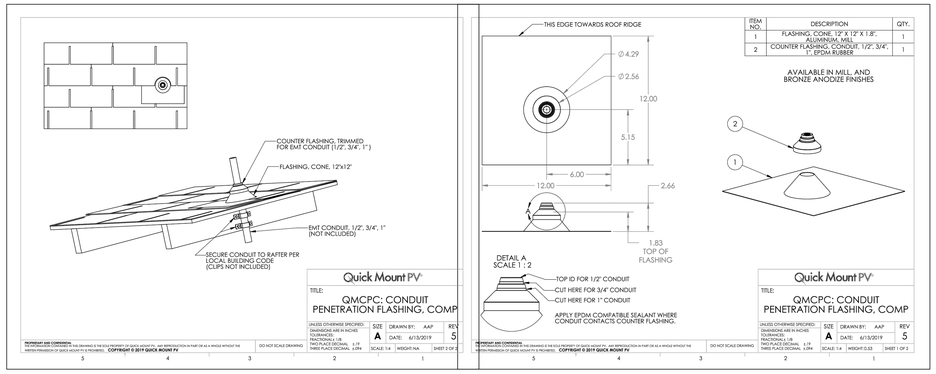
1. NEMA 3R ROOR MOUNTED JUNCTION BOX FOR CONSOLIDATION OF PV STRING WIRE FOR HOMERUNNING TO ASSOCIATED INVERTER, PER SINGLE LINE DIAGRAM.
2. ROUTE STRING WIRE THROUGH FREE-AIR BENEATH MODULES VIA RACKING MANUFACTURER SUPPLIED WIRE MANAGEMENT HARDWARE/CLIPS.
3. PV INVERTER IN ELECTRICAL ROOM ON FIRST FLOOR BELOW. REFER TO ELECTRICAL ROOM FOR ADDITIONAL INFORMATION.
4. APPROXIMATE OUTLINE OF ELECTRICAL ROOM ON FIRST FLOOR BELOW. SHOWN FOR REFERENCE ONLY.
5. JMS-F SUN SPEC SHUTDOW DEVICE. INSTALL AS PER MANUFACTURER RECOMMENDATIONS.
6. IRONRIDGE XR100 FLUSH MOUNT SOLAR RACKING SYSTEM.
7. SOLAR RAIL ATTACHMENT TO ROOF FRAME. REFER TO STRUCTURAL FOR RACKING ANCHORAGE REQUIREMENTS AND TO ARCHITECTURAL PLANS FOR FLASHING AND WATERPROOFING. REFER TO SOLAR CALCULATIONS PER ORIGINAL STRUCTURAL CALCULATION PAGES 96-116.
8. SOLAR PANEL ATTACHMENT. REFER TO STRUCTURAL DETAIL 15/S3.2 FOR ATTACHMENT TO STRUCTURE AND S0.1 FOR SOLAR PANEL LOAD RATINGS.
9. PATHWAY TO RIDGE SHALL BE PROVIDED PER FIRE CODE 1205.2.1.1. A MINIMUM OF TWO 36-INCH PATHWAYS SHALL BE PROVIDED ON SEPARATE ROOF PLANE, FROM LOWEST ROOF EDGE TO RIDGE.
10. SETBACKS AT RIDGE SHALL BE PROVIDED PER FIRE CODE 1205.2.1.2. A SETBACK NOT LESS THAN 18" WIDE IS REQUIRED ON BOTH SIDES OF THE RIDGE.
11. INSTALL PANELS IN ORIENTATION SHOWN. PHOTOVOLTAIC PANELS SHALL BE MOUNTED ON AN XR RAIL RACKING SYSTEM AT 220° TRUE AZIMUTH, FLUSH-MOUNTED TO MATCH THE ROOF SLOPE. INSTALLATION SHALL BE IN COMPLIANCE WITH UL-61730-1, SEE DETAIL 2/PV1.1. SEE INSTALLATION DIAGRAM FOR ADDITIONAL ORIENTATION NOTES.



PHOTOVOLTAIC ARRAY PLAN

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

NORTH



1 CONDUIT PENETRATION/FLASHING

SCALE: NTS

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K:\ENG\2025\25-8049\25-8049_PV1.0_PV ARRAY PLAN.dwg – jchochagua – Jun 11, 2026 – 11:20am

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
GEOFFREY M. [illegible]
NO. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8049

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

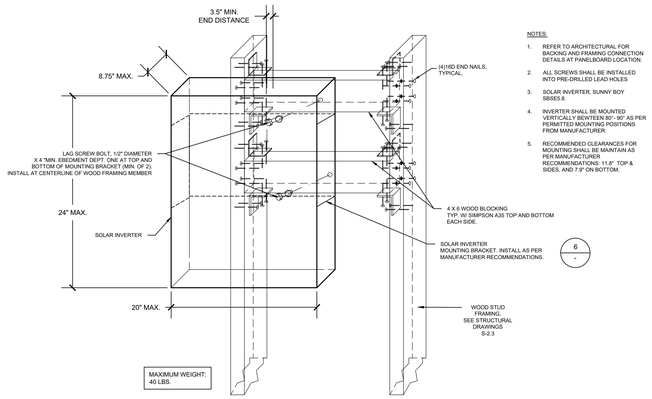
PHOTOVOLTAIC ARRAY PLAN

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS
NO. | ITEM | DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

PV1.0



NOTES:

1. REFER TO ARCHITECTURAL FOR BACKING AND FRAMING CONNECTION DETAILS AT PANELBOARD LOCATION.
2. ALL SCREWS SHALL BE INSTALLED INTO PRE-DRILLED LEAD HOLES
3. SOLAR INVERTER, SUNNY BOY SB6S5.8.
4. INVERTER SHALL BE MOUNTED VERTICALLY BEWTEEN 80°- 90° AS PER PERMITTED MOUNTING POSITIONS FROM MANUFACTURER.
5. RECOMMENDED CLEARANCES FOR MOUNTING SHALL BE MAINTAIN AS PER MANUFACTURER RECOMMENDATIONS: 11.8" TOP & SIDES, AND 7.9" ON BOTTOM.

SURFACE MOUNT

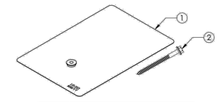
4 SOLAR INVERTER MOUNTING DETAIL

SCALE: NTS

Cut Sheet

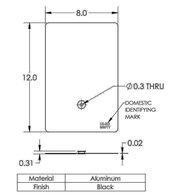
IRONRIDGE — Comp Shingle Flashing, US

PART NUMBER	DESCRIPTION
FLSH-01-81-US	Flashing, 8x12 and Lag Screw, Comp Shingle, Black, US Production



ITEM NO	DESCRIPTION
1	Flashing, 8x12, Comp Shingle, Black
2	Lag Screw, EPDM Backed Washer

1) Flashing, 8x12, Comp Shingle, Black

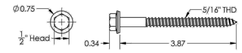


Material	Aluminum
Finish	Black

v1.0

Cut Sheet

2) Lag Screw, 5/16-4", Thread 3", EPDM Backed Washer



Material	300 Series Stainless Steel
Finish	Clear

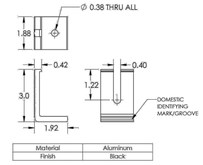
PART NUMBER	DESCRIPTION
LFT-FLSH03-81-US	Slotted L-Foot for Comp Shingle Mount, Black, US Production



ITEM NO	DESCRIPTION
1	Slotted L-Foot, 3in Tall, Black

LEVEL RAIL AT DESIRED HEIGHT, THEN TORQUE TO 250 IN-LBS (21 FT-LBS.).

1) Slotted L-Foot, 3in Tall, Black



Material	Aluminum
Finish	Black

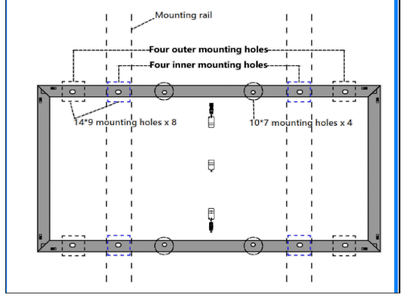
v1.0

1 SHINGLE FLASHING

SCALE: NTS

Installation with bolts

(Four inner mounting holes)



INSTALLATION SHALL OCCUR WITH BOLTING AT (4) INNER MOUNTING HOLES. SOLAR PANEL SHALL HAVE LONG SIDE CLAMPING (4 PCS.) WITH (2) RAILS PARALLEL TO SHORT SIDE.

5 PV INSTALLATION DIAGRAM

SCALE: NTS

Certificate of Compliance

Certificate Number: UL-US-L362479-44422-01400202-3

Report Reference: E362479-20200410

Issue Date: 2024-01-03

Issued to:
JINKO SOLAR CO LTD
No.1, Yingbin Road, Economic Development Zone Shangrao, Jiangxi Sheng 334100
China

This certificate confirms that representative samples of:
QIIA - Photovoltaic Modules and Panels with System Voltage Ratings Over 600 Volts

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate

UL 61730-1, Edition 2, Issue Date 2022-10-28, UL 61730-2, Edition 2, Issue Date 2022-10-28, Revision Date 2023-11-10

Additional Information:
See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

David Piecuch
UL Mark Certification Program Manager

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2 PV MODULE UL LISTING

SCALE: NTS

CERTIFICATE OF COMPLIANCE

Certificate number UL-US-L362479-44422-01400202-3
Report reference E362479-20200410
Date 2024-01-03

JKM515M-72HL4	Photovoltaic (Solar) Module-P Type Cell
JKM515M-72HL4-B	Photovoltaic (Solar) Module-P Type Cell
JKM515M-72HL4-B-V	Photovoltaic (Solar) Modules-P Type Cell
JKM515M-72HL4-V	Photovoltaic (Solar) Module-P Type Cell
JKM515M-7TL4	Photovoltaic (Solar) Module-P Type Cell
JKM515M-7TL4-V	Photovoltaic (Solar) Modules-P Type Cell
JKM515N-66HL4	Photovoltaic (Solar) Module-N Type Cell
JKM515N-66HL4-B	Photovoltaic (Solar) Module-N Type Cell
JKM515N-66HL4-B-V	Photovoltaic (Solar) Module-N Type Cell
JKM515N-66HL4-V	Photovoltaic (Solar) Module-N Type Cell
JKM515N-72HL4-B	Photovoltaic (Solar) Module-N Type Cell
JKM515N-72HL4-B-V	Photovoltaic (Solar) Module-N Type Cell
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JKM520M-72HL4-B	Photovoltaic (Solar) Module-P Type Cell
JKM520M-72HL4-B-V	Photovoltaic (Solar) Modules-P Type Cell
JKM520M-72HL4-V	Photovoltaic (Solar) Modules-P Type Cell
JKM520M-7TL4	Photovoltaic (Solar) Module-P Type Cell
JKM520M-7TL4-V	Photovoltaic (Solar) Modules-P Type Cell
JKM520N-66HL4	Photovoltaic (Solar) Module-N Type Cell
JKM520N-66HL4-B	Photovoltaic (Solar) Module-N Type Cell
JKM520N-66HL4-B-V	Photovoltaic (Solar) Modules-N Type Cell
JKM520N-66HL4-V	Photovoltaic (Solar) Module-N Type Cell
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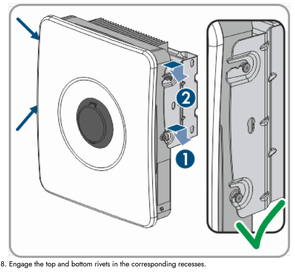
David Piecuch
UL Mark Certification Program Manager

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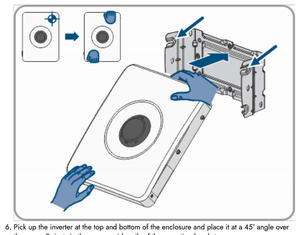
7. Carefully rotate the bottom of the inverter toward the support surface and place it at a 90° angle to the base.



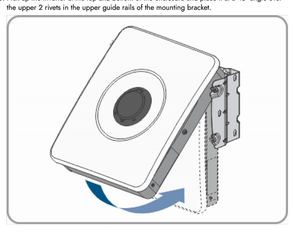
8. Engage the top and bottom rivets in the corresponding recesses.
9. Make sure that the inverter is securely attached by carefully moving the enclosure back and forth.

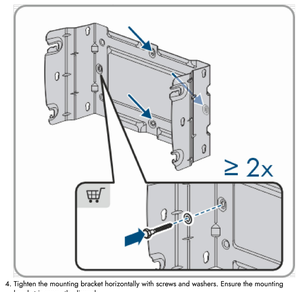
Also see:

- Recommended clearances for mounting (123967676987.html)
- Dimensions for mounting SBSE-3.8-US-50 / SBSE-4.8-US-50 / SBSE-5.8-US-50 / SBSE-7.7-US-50 (123967658835.html)
- Permitted and prohibited mounting positions (124060079499.html)
- Requirements for the Mounting Location (123966660491.html)



6. Pick up the inverter at the top and bottom of the enclosure and place it at a 45° angle over the upper 2 rivets in the upper guide rails of the mounting bracket.





4. Tighten the mounting bracket horizontally with screws and washers. Ensure the mounting bracket is correctly aligned.
   - ☑ The mounting bracket is installed correctly.
5. Do not place the inverter vertically under any circumstances.

Mounting the Inverter

⚠ QUALIFIED PERSON

Additionally required material (not included in the scope of delivery):

- ☐ 2 or 4 screws (depending on support surface) suitable for both the support surface and the inverter's weight
- ☐ 2 or 4 washers suitable for the screws
- ☐ 2 or 4 screw anchors (depending on support surface) suitable for the support surface and the screws

⚠CAUTION

Risk of injury due to weight of product

Injuries may result if the product is lifted incorrectly or dropped while being transported or mounted.

- Transport and lift the product carefully. Take the weight of the product into account.
- Wear suitable personal protective equipment for all work on the product.

Procedure:

1. Align the mounting bracket horizontally and mark the position of the drill holes. Use either the 2 holes in the center of the wall mounting bracket, or 1 hole each on the left and right. All 4 holes have to be utilized when mounting to drywall.
2. Set the mounting bracket aside and drill the marked holes.
3. Insert screw anchors into the drill holes if the support surface requires them.

6 PV INVERTER INSTALLATION MANUAL

SCALE: NTS

intertek
Total Quality. Assured.

Intertek Testing Services NA, Inc.
8431 Murphy Drive
Middleton, Wisconsin 53562

Telephone: 608.836.4400
Facsimile: 608.831.9279
www.intertek.com

Test Verification of Conformity

In the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the requirements of the referenced specifications at the time the tests were carried out.

Applicant Name & Address:	Enstall US, Inc. 41 West Putnam Avenue, Suite 303 Greenwich, CT 06830-5300 USA
Product Description:	Flush Mount System with XR Rails.
Ratings & Principle Characteristics:	Fire Class Resistance Rating: -Flush Mount (Symmetrical). Class A Fire Rated for Low and Steep Slope applications when using Type 1, 2, 3, 13, 19, 25, 29, 30 and 38 listed photovoltaic modules, no perimeter guarding is required. Class A Fire Rated for Steep Slope applications when using Type 4 and 5 listed photovoltaic modules and required perimeter low edge guarding. Class B Fire Rated for Steep Slope applications when using Type 4 and 5 listed photovoltaic modules, no perimeter guarding is required. Tested with a 5" gap (distance between the bottom the module frame and the roof covering), per the standard this system can be installed at any gap allowed by the manufacturers installation instructions. This rating is applicable with any 3rd party roof attachment with similar construction and material.
Models:	IronRidge Flush Mount with XR Rails
Brand Name:	IronRidge Flush Mount
Relevant Standards:	UL 2703 (2023)(Section 15.2 and 15.3) Standard for Safety Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels, First Edition dated Jan. 28, 2015 Referencing UL1703 Third Edition dated Nov. 18, 2014, (Section 31.2) Standard for Safety for Flat-Plate Photovoltaic Modules and Panels.
Verification Issuing Office:	Intertek Testing Services NA, Inc. 8431 Murphy Drive, Middleton, WI 53562
Date of Tests:	08/27/2014 to 03/17/2015
Test Report Number(s):	101769343MID-001r1, 101769343MID-001a, 101915978MID-001 & 101999492MID-001ar1-cr1, 104428358MID-001 EEV, 105041839MID-001 & 002, 105499394MID-008 PEV, 105499394MID-008
Revision Summary	08/27/2020 Added type 13, 19, 25 and 29 to system, update address. 06/28/2022 Added Type 5. 09/14/2022 Added Type 4. 12/8/23 added type 38. 1/5/24 changed word anchor to attachment. 06/18/25 added type 30

This verification is part of the full test report(s) and should be read in conjunction with them. This report does not automatically imply product certification.

Completed by:	Brian Brunson	**Reviewed by:**	Chad Naggs
Title:	Operations Manager, Middleton	**Title:**	Technical Team Lead, Fire Resistance
Signature:		**Signature:**	
Date:	06/18/25	**Date:**	06/18/25

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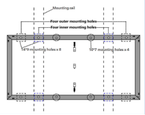
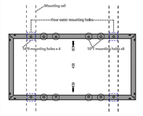
REVISIONS

NO.	ITEM	DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

PV1.1

Bolting installation

Installation with bolts (Four inner mounting holes)	Installation with bolts (Four outer mounting holes)
	

Module type (JKMxxx-...)	Four inner mounting holes (Maximum Test Load Pa)	Four outer mounting holes (Maximum Test Load Pa)
N-54HL4R-(V) N-54HL4R-B N-54HL4R-BDB N-72HL4-BDX	+6000/-4000	/
N-78HL4-BDV N-72HL4-(V) N-72HL4-(V)-L N-72HL4-BDV N-60HL4-(V) M-72HL4-BDVP M-72HL4-(V) M-72HL4-TV	+5400/-2400	/
N-66HL4M-BDV N-66HL4M-(V)	/	+5400/-2400

Table 2 Test loads for inner and outer four-hole mounting for different modules

Notes：the figures show **mounting rails parallel to the short side of the module**. If special mounting system or special installation method is required, please verify the torque and material compatibility with the supplier of the racking system.

3. Installation conditions

3.1 Climate/Environment conditions and Site selection

The recommended weather conditions for installing modules are:

a) Humidity: < 85% RH

b) Ambient air temperature range: -40℃ to +40℃

c) Operating temperature: -40℃ to +70℃

In most applications, *JinKoSolar* PV modules should be installed in a location where they can receive maximum sunlight throughout the year. In the Northern Hemisphere, the module should face south, and in the Southern Hemisphere, the modules should face north. Modules facing 30 degrees away from due South (or due North) will lose approximately 10% to 15% of their power output. If the module faces 60 degrees away from due South (or due North), the power loss will be 20% to 30%. Refer to the longitude and latitude of the location to determine the optimal azimuth of the module.

The maximum altitude of module installation is 2000m.

JinkoSolar standard PV modules have passed the IEC 61701:2020 salt spray corrosion test (method 6). In the case modules are installed within 50m to 500m from the seashore, the connectors shall be protected, i.e., adding dust plugs. After removing the dust plugs, connect the connectors immediately and take other anti-rust measures to prevent rust. Offshore PV modules are recommended if installation within 50 metres is required, please consult *JinKoSolar* for details.

Do not install the PV module in a location where it would be immersed in water or continually exposed to water from a sprinkler or fountain, etc. When choosing a site, avoid trees, buildings or any other obstruction that could create shadows on the modules at any time throughout the year. Shading causes loss of power output and may affect the optimum performance and safety issue of the PV modules.

It is possible that modules installed with restricted airflow are not allowed for use in some hot locations, depending on system design parameters. Installers should assess if the system design at a specific geographic location will result in a 98th percentile module operating temperature[1] greater than 70°C, and must consider and avoid these factors in design of systems.

3.2 Tilt angle selection

The tilt angle of the PV module is measured between the surface of the PV module and a horizontal surface (see Figure 4). The module generates maximum output power when directly facing the sun.

For standalone systems, the tilt angle of the modules should be selected to optimize the performance based on the season and sunlight. In general, if the module output is adequate when the irradiance is low (i.e., winter), the angle chosen should be adequate during the rest of the year. For grid-connected systems, modules should be tilted at the angle that the energy production from the modules will be maximized on an annual basis.

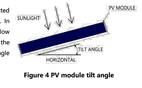


Figure 4 PV module tilt angle

[1] 98th percentile temperature: represents the temperature that is larger than 98% of all the temperatures, and consequently it is met or exceeded only 2% of the time. It is to be determined from measurements taken on hourly basis, or more frequently. For a standard year, the temperature that a module would be expected to equal or exceed for 175.2 h per year, is less than 70 °C.

shock, and protect hands from sharp edges. This includes standard and insulated safety tools and equipment (safety helmet, insulated gloves and rubber shoes, harness or belts, ladder, etc.).

- When installing or maintaining the PV system, please do not wear metal rings, watches or other metal products, to avoid electric shock dangers or module damage.
- Do not use wet tools, and refrain from working in rain, snow or windy conditions.
- Modules should be stored at the project site with additional rain protection to avoid direct open-air placement before they are installed.
- In order to avoid external matter such as sand or water vapour from entering and causing connection safety problems, once the modules are taken out of the box and installed, the connectors between the modules need to be connected in time, and the connectors need to be kept dry and clean during the installation process. It is recommended to add connector dust plugs (see Figure 3) as a temporary protective measure in areas with heavy dust, high salinity and pollution, but long-term use (within 1 month) is not recommended.



Figure 3 connector dust plugs

2.2 Electrical performance safety

- Modules generate DC electrical energy when exposed to sunlight or other light sources. Improper contact with live parts, such as terminals, may result in burns, sparks, and lethal shock.
- Breakage, opening the module to the exterior, of the front or rear glass can cause an electrical safety hazard, electric shock, or fire. These modules cannot be repaired and must be removed and replaced immediately.
- Electrical specifications shown in datasheets are measured under Standard Test Conditions (STC), thus: Irradiance 1000W/m², module cell temperature 25°C, air mass = 1.5. The current and voltage generated by modules in different environments are different from measured at STC. Therefore, when determining the specifications of the rated voltage, cable capacity, fuse capacity, controller capacity, and other output power related specifications, take the values of 1.25 times the short-circuit current and open-circuit voltage marked on the module. This multiplier serves as a reference and is commonly used; however, it is important to consult with your inverter/controller supplier for system configuration design, as local regulations may vary, impacting these considerations.
- Snow, water, or other reflective medium in surrounding environments that intensify light reflection will increase output current and power. And module voltage and power will increase under low temperature condition.
- Artificially concentrated sunlight shall not be directed on the module. Do not expose the back of the monofacial module directly to sunlight.
- To prevent arcs and electrical shocks, do not disconnect modules under load without authorization; if disconnecting the connector is needed, turn off DC and AC inverters or cut off the main switch of the converter first.

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JinKoSolar Photovoltaic Modules

Installation Manual



A1

4. Mechanical Installation

Modules can usually be mounted by using the following methods: fixed installation-mounting with bolts, fixed installation-mounting with clamps and tracker installation.

*** Notes:**

- All installation methods herein are only for reference, and they are based on the test results from third-party tests and *JinKoSolar* internal tests. While we extensively test various mounting scenarios, the vast diversity in materials and designs globally, including special profiles, makes it impossible to guarantee exact load specifications for installations with unique materials or designs. Special designs, should be tested by the mounting companies, to ensure the reliability of the systems.
- *JinKoSolar* will not provide related mounting accessories.
- the system installer or trained professional personnel must be responsible for the PV system's design, installation, and mechanical load calculation and system security. The design must take into consideration module' s bent/torsion, frame dimensions, fixation holes location and any other mechanic characteristic.
- Before installation, the following items shall be addressed:
  a) Visually check the module for any damage. Clean the module if any dirt or residue remains.
  b) Check if module serial number stickers match.
- The maximum loads that different types of modules can withstand on the front side and back side are dependent on installation methods, which can be referred to Table 2 and 5-7. If there is heavy snow and strong wind on the module installation site, take special protection to meet the actual requirements.
- All load values provided in this manual are **maximum test load values**, measured in Pa and describe as follows:

Maximum Test Load = 1.5 (Safety factor) x Design load

- The module must be mounted on the bracket according to the following installation. If there are other installation, please consult *JinKoSolar* and obtain approval, otherwise the warranty will be invalid.
- Under the mounting method of the fixed bracket as specified in this manual, the modules will be concave to varying degrees due to the gravity, which is a normal physical phenomenon and does not affect the normal use and performance of the modules. Any other external forces will cause additional sinking of the modules, so any operation of the modules should comply with this manual.

- PV module operation can only be stopped when they are kept from sunlight or covered by hard board (opaque material) or UV-proof materials.
- When connecting a battery storage system, follow the battery manufacturer's instructions for correct installation, operation, and maintenance to ensure system operation and user safety.
- Due to the risk of electrical shock, do not perform any work if the terminals of the module are wet.
- Do not operate on wet modules, if this is needed, only by wearing PPE.
- Please follow the cleaning requirements in this manual when cleaning modules, refer to section 6.2.
- Only the modules of the same size and the specifications within same range can be connected in series.
- The number of modules that can be connected at a PV installation shall be determined by a qualified institution or person in accordance with the design specifications of the photovoltaic system and the local electrical design specifications.
- Connect the male and female connectors correctly, before connecting, always ensure that the contacts are corrosion free, clean, and dry; Check the wiring condition, all wires shall not be detached from the modules, and secure the wires with cable ties so that the wires do not scratch or squeeze the rear side of the module.
- Do not touch the module, junction box or the connectors with bare hands during installation or under sunlight, regardless if the module is connected to or disconnected from the system. The glass surface and the frame may be hot, posing a risk of burns and electric shock.
- Do not insert any metal object into the connector.
- Keep connectors dry and clean, ensuring they are in good operating condition.

2.3 Operation safety

- Read and follow the manual "Handling, Storage and Unpacking Instructions" to ensure proper management of the pallets. Custom unpacking methods are prohibited.
- Before unpacking, please check the product type, power bins, serial number, and relevant suggestions on the paper of the packaging box.
- It is recommended to use art knife or cutter to remove the packing belt and wrapping film. Violent removal is prohibited to avoid scratching the modules in the box.
- Ensure a proper environment before unpacking as well as enough man force (2 people minimum) to prevent the module from slipping and hitting other modules, causing scratches, cracks, or deformation on the modules.
- Once the modules are removed from the pallet, they shall be promptly installed and connected to the inverter. If they are not installed immediately, protective measures (such as adding rubber joint cover, etc.) must be taken on the connectors' head to prevent water vapour, sand, dust, insects, or other contaminants from getting inside the connector and causing poor contact or corrosion of the connector.
- When inspecting PV modules with AR coating technology, it will be normal to observe modules with a slight color difference at different angles.
- Thermal expansion and contraction effects occur on the modules. During installation, the distance between two adjacent modules must be ≥ 10mm. If there are special requirements, please confirm with *JinKoSolar* before

1. Introduction

Thanks for choosing *JinKoSolar* photovoltaic (PV) modules (hereafter referred to as "modules").

This manual provides important safety guidelines for the installation, maintenance, and use of the modules. To ensure correct installation and stable power output, it is necessary to read and understand all installation instructions before proceeding. As PV modules are power generation products, professional technicians must perform the installation and adopt appropriate safety measures to avoid accidents

The protection class of the module: Class II (IEC61730:2023); (IEC61730:2016);
The application class of the module: Class A (IEC61730:2004);
Fireproof rating: Class C, in line with IEC61730-2 standard. JKMxxxN-72HL4-BDX has a Class A fire rating.

1.1 Rules and regulations

The mechanical and electrical installation of modules must comply with all local applicable regulations and codes, including electrical norms, including construction codes and electrical connection requirements, as well as mounting and other equipment instructions. Regulations may differ based on site-specific conditions, such as building roof installation, vehicle applications, etc. Additionally, requirements may vary depending on the installed system voltage (DC or AC). For specific terms, please contact your local authorities.

1.2 Disclaimer

JinKoSolar reserves the right to change the product specifications and this installation manual without prior notice. We recommend that you refer to the *JinKoSolar* website (www.jinkosolar.com) for the latest product and documentation information. *JinKoSolar* does not accept any responsibility for any loss, damage or expense arising from the installation, operation, use or maintenance of the Module, as the use of this manual and the conditions under which the Module is installed, operated, used, and maintained are beyond *JinKoSolar*'s control.

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TYPE	MODULE
MONOFACIAL	JKMxxxN-54HL4R-(V)
	JKMxxxN-54HL4-(V)
	JKMxxxN-54HL4R-B
	JKMxxxN-60HL4-(V)
	JKMxxxN-72HL4-(V)
	JKMxxxM-72HL4-(V)
	JKMxxxN-72HL4-(V)-L
	JKMxxxN-66HL4M-(V)
BIFACIAL	JKMxxxN-54HL4R-BDB
	JKMxxxN-72HL4-BDV
	JKMxxxN-72HL4-BDX
	JKMxxxM-72HL4-BDVP
	JKMxxxN-72HL4-BDV
	JKMxxxN-66HL4M-BDV
	JKMxxxN-66HL5-BDV

4.1 Fixed installation-mounting with bolts

Install the module on the rack using anti-corrosion bolts, elastic washers and flat washers with sufficient torque to allow the module to be properly secured. See Figure 5 (a) and (b) for detailed installation information.

Table 1 lists different sizes of bolts for different mounting holes, along with torque recommendations. However, it is crucial to consult the installer or bracket supplier to obtain the exact torque value for your specific installation.

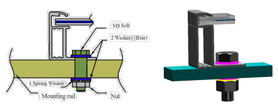


Figure 5 Mounting with bolts (a) schematic (b)3D design of the installation with bolts

Mounting hole (mm)	Bolt size	Reference torque (Nm)
14 x 9	M8	16-20
10 x 7	M6	9-12

Table 1 Bolts for different mounting holes

installation.

- During the installation, as for module removal, maintenance, and any other related processes, it is recommended that the force applied between the cable and the connector, and the cable and the junction box, is not more than 60N.
- Meaning of crossed – out wheeled dust bin:
  - Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
  - Contact your local government for information regarding the collection systems available.
  - If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
  - When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.



2.4 Fire safety

- Please use appropriate module components to comply with local laws and regulations, as well as the building fire safety requirements before installation, such as fuses, circuit breakers and grounding connectors, etc.
- *JinKoSolar* modules fire rating is set according to IEC61730-2:2023 standard, and it can be found in the corresponding certificates. The Fire Class Rating of a module for roof mounted system shall meet local code requirements in order to achieve the specified System Fire Class Rating for a non-BIPV module. All PV systems have limitations of inclination required to maintain a specific System Fire Class Rating.
- For roof-top installations, it is responsibility of the designers or installers to ensure that the roof is suitable not only in terms of the structural load-bearing capacity, but also the fire resistance for the installation of the PV modules in accordance to local regulation.
- Make sure that the rear side of the module and the mounting surface are fully ventilated. When To facilitate ventilation and heat dissipation of the module, the minimum distance between back side of the modules and roof must be ≥ 10cm, considering the normal physical phenomenon which the modules will be concave to varying degrees due to the gravity. The minimum clearance of any modules applied for special cases, please contact *JinKoSolar*'s technical support department.
- Different roof structures and installation modes will affect fireproof performance of buildings. Improper installation may lead to the risk of fire.
- Do not install the modules anywhere close to open flames or flammable materials (hay, straw, wood, solvents, oils, etc.), or exposed to flammable and explosive gases.

2. General information-

There are two labels on the module which contain the following information:

1. Nameplate: Each module has a nameplate, which indicates the module type, the main electrical and safety specification parameters, etc.

2. Serial Number and Bar Code Label: Each module has a unique serial number and bar code as a unique identifier, which is laminated inside the module permanently. This label can be normally found in the front side of its corners, and in the middle of the rear side of the module.

2.1 Regular safety

- Handle modules during deliveries and transport with care to avoid large shocks that could damage the assembly or /and cause cracks in the cell.
- Do not apply excessive force or objects on the module surface, do not impact, and do not twist the module frame to prevent cell damages and/or cell cracks.
- Do not use the modules to replace or partly replace roofs and walls of buildings. Follow your local regulations for building integration of photovoltaics.
- Avoid touching or modifying any part of the modules unless explicitly authorized by *JinKoSolar*. Refrain from removing, attempting to repair, or disassembling any component installed by *JinKoSolar*.
- Junction boxes and female-male connectors interconnections of the modules covered by this manual meet IP68 (IEC60529) requirements. However, they must be protected from prolonged direct sunlight and water immersions, to ensure long-term reliability.
- Do not drill holes in the frame without authorization from *JinKoSolar*, as it may cause corrosion or other negative effects.
- Do not lift modules using the attached cables or the junction box.
- Prohibit modules, junction boxes and connectors from coming into contact with unapproved chemicals: e.g., petrol, oil, acetone, alcohol, film strippers, potting compounds, TBP, cleaning agents, herbicides, rust inhibitors, descaling agents, etc. For more information, please contact *JinKoSolar* technical support department.
- Do not use junction boxes or connectors that are contaminated (with dust, corrosion, etc.), or broken modules.
- Do not stand (see Figure 1) or step on the module (see Figure 2) as there is a risk of damage to the modules and injury to the user.



Figure 1



Figure 2

- Use appropriate protective equipment when installing modules to avoid direct contact, reduce the risk of electric

Abbreviations

A: Amper, Unit of current.

AC: Alternating Current.

AR: Anti Reflection.

BIPV: Built Integrated Photovoltaic.

DC: Direct Current.

IEC: International Electrotechnical Commission.

IP: Ingress Protection.

mm: Millimeter. Unit of length.

m: Meter, Unit of length.

N: Newtons. Unit of force.

Nm: Newton meter. Unit of torque (moment).

Pa: Pascal. Unit of pressure.

pcs.: pieces. Number of items.

PPE: Personal Protective Equipment.

PV: Photovoltaic.

RH: Relative Humidity.

STC: Standard Test Conditions.

UV: Ultraviolet.

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PV MODULE INSTALLATION MANUAL

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

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PV1.2

PV MODULE INSTALLATION MANUAL
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Technical Support: rtms@jinkosolar.com | Pre-sale: Globalpresales@jinkosolar.com | Aftersales: CS0001@jinkosolar.com

- The length of each junction box is given at the component specifications.

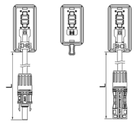


Figure 8 The half-cut cell module/split junction box

5.3 Grounding

- For safety reasons and to protect modules from lightning and electrostatic damage, the module frame must be grounded. The grounding design and the materials used should be in accordance with local national, regional or international regulations, codes, laws and standards, and the grounding connection should be carried out by qualified electricians.
- The grounding device must penetrate the anodic oxide film of the component frame and make full contact with the interior of the aluminium alloy, and the grounding conductor must be connected to earth ground through a suitable grounding electrode.
- There are grounding holes with a diameter of 4mm on the long side of the back frame of the module, by the edge part. The grounding hole on the frame is marked with typical grounding symbol (⏚) according to IEC 61730-1:2023 standard. These holes can only be used for grounding with bolts, so cannot be used for module installation. This method includes bolt, flat washer, start washer, washer and nut (see Figure 9) . The bolts should be tightened when grounding is installed. The frame of the module must not be punched with additional holes and no damage should be done to the module frame or the grounding wire.

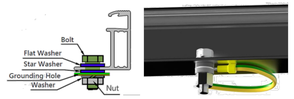


Figure 9. Grounding hole with bolts

For detailed installation drawings and installation method, please refer to installation manual of tracker supplier. For other tracker systems that are not listed in Table 8, please contact JinKo for more information (cs@jinkosolar.com).

5. Electrical Installation

5.1 Electrical property

- For the electrical design, please find the main electrical parameters shown in the datasheet and product label.
- Modules must be installed and connected with the foam tube removed first. *JinKoSolar* does not guarantee the safety of the product or the consistency of the technical parameters if the connectors and tools used are not officially designated by *JinKoSolar* or are not installed according to specifications.
- Modules can be connected both in series or in parallel，reasonable design is required according to the system configuration. In any case, string size (quantity of modules that can be connected together, in series/parallel) must be calculated taking into consideration local regulations, chosen inverter and project location (environmental conditions, which may vary from STC). This must be done by qualified professionals.
- When modules are in series, the string voltage is the sum of each module individual voltage. Modules with different electrical parameters must not be connected in series. String voltage must not be higher than the maximum permitted system voltage, as well as inverter' s maximum input voltage and other electrical devices that may be installed in the system. To assure this, we recommend calculating the open circuit voltage of the array at the lowest expected ambient temperature of the project location, by using the following formula:

$$Max.system\ voltage \geq N \cdot V_{oc} \cdot [1 + TC_{VOC} \cdot (T_{min} - 25)]$$

Where:

N	=	Number of modules in series.
V_{oc}	=	Open circuit voltage (refer to product label or datasheet).
TCvoc	=	Temperature coefficient of open circuit voltage (refer to product label or datasheet).
Tmin	=	Minimum ambient temperature.

- When modules are connected in parallel, the string current is the sum of each module individual current. In this case, the maximum recommended number of parallel connections is:

$$N \leq \frac{Fuse\ Rating}{I_{sc}} + 1$$

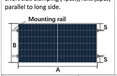
Where:

N	=	Number of maximum parallel connections.
Fuse Rating	=	Maximum fuse rating value in an array string (refer to product label or datasheet).
Isc	=	Short circuit current (refer to product label or datasheet)

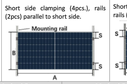
- PV modules connected in series shall have similar current. (please contact *JinkoSolar* if there is any concern), and modules must not be connected together to create a voltage higher than the permitted system voltage stated in the label of the module. The maximum number of modules in series depends on system design and the rating of the

Short-side clamping/long-side and short-side clamping (with rails)

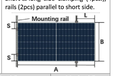
Method D
Short side clamping (4pcs.), rails (2pcs) parallel to long side.



Method E
Short side clamping (4pcs.), rails (2pcs) parallel to short side.



Method F
Short & long side clamping (4pcs.), rails (2pcs) parallel to short side.



Mounting method /Range / Module Type / Height	Method D S=130-240	Method D S=100-240	Method E S=130-240	Method E S=100-240	Method F S=100~240 L=A/5±150mm
	Maximum test load (Pa)				
N-54HL4R-(V) N-54HL4-(V) N-54HL4R-B N-54HL4R-BDB N-60HL4-(V)	/	+1600/-1600	/	+1600/-1600	+2400/-2400
N-72HL4-(V)	/	/	/	/	/
N-72HL4-BDV M-72HL4-BDVP	+1600/-1000	/	+1000/-1000	/	/
N-78HL4-BDV-	+1600/-800	/	+800/-800	/	/

Table 6 Maximum test load values for different modules with short/long clamps mounted with rails

4.2 Fixed installation-mounting with clamps

The clamps must not be installed in contact with the front glass of the module and must not deform the module frame. Recommended clamp schematic shown as followed (see Figure 6). Ensure that the clamps do not create a shadow on the module. Under no circumstances may the frame be altered. When choosing the mounting method for the clamps, make sure that there are at least four clamps on each module. Different mounting positions of the clamps determine the maximum load capacity of the module. Table 5-7 as followed show the different mounting methods and the positions of the clamps for the different mounting methods. The distance between the installation position of the long-side clamp and the edge is represented by L in Table 5-7. The distance between the installation position of the short-side clamp and the edge is represented by S in Table 5-7.

Depending on the local wind and snow loads, if there is a possibility of excessive load combinations:

a) Additional clamps could be required to ensure that the module has enough load carrying capacity. Clamp dimensions, contact area and torque must follow minimum values shown in Table 3.
b) Longer and/or stronger profiles/rails could be required to ensure that the module has enough load carrying capacity.

The torque value applied during installation of the clamps should be high enough to securely hold the module. Please always consult the installer or bracket supplier for exact torque value.

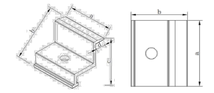


Figure 6 Recommended clamp schematic

Length of the clamp (a)	≥50 mm
Thickness	≥3 mm
Overlap of the frame of the module (d)	10-11 mm
Torque	16-20 Nm (M8 bolt)

Table 3 Minimum values for clamp dimensions, contact area and torque

- Grounding devices and materials must be provided by qualified manufacturers. Bolts, nuts and washers shall be of a size to match the grounding hole and made of stainless steel, and grounding wires shall be made of copper core wires with a size of AWG 6-12 (4-14 mm²) and 90°C, and shall be in accordance with relevant local national, regional or international regulations, laws and standards.
- *JinKoSolar* allows other grounding methods. However, the following requirements need to be met:
  a) It is the sole responsibility of the Installer to select the correct grounding system.
  b) Said grounding system must comply with the corresponding electrical codes.
  c) *JinKoSolar* modules must be properly grounded.
  d) The chosen grounding methodology does not affect the *JinKoSolar* Power and Product Warranty in any way.
  e) *JinKoSolar* is not responsible for any failure or defect caused by the selected grounding methodology.

6. Maintenance and care

It is required to perform regular inspection and maintenance of the modules especially during the warranty period. Please for details, kindly O&M manual. To ensure optimum module performance, *JinKoSolar* recommends the following maintenance measures:

6.1 Visual Inspection

Inspect the modules visually to find if there are any visual defects, if there are, the following items should be evaluated:

a) If the modules are observed having slight module color differences at different angles, this is a normal phenomenon for modules with anti-reflection coating technology. If the colors are within the cell, please consult *JinKoSolar* for further analysis.
b) Whether the glass is broken.
c) No sharp objects are in contact with the PV module surfaces.
d) The PV modules are not shaded by unwanted obstacles or foreign material.
e) Corrosion along the cells' busbar. The corrosion is caused by moisture intrusion thought the module rear side of the module. Check the rear side of the module for damage.
f) Check whether the back sheet is burnt.
g) Check if screws and mounting accessories are tight, adjust and tighten as necessary.

6.2 Cleaning

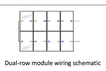
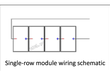
- A buildup of dust or dirt on the module front face will result in a decreased energy output. Clean the module preferably once per annum, more frequently in dusty conditions, using soft cloth dry or damp. Water with high mineral content may leave deposits on the glass surface and is not recommended. It is recommended to use neutral water of the PH value ranging from 6.5 to 8 to clean the glass, so as not to cause damage to the glass coating layer.
- Never use abrasive material under any circumstances.
- In order to reduce the potential for electrical and thermal shock, *JinKoSolar* recommends to clean PV modules during

inverter used.

- The maximum current rating of the module array is identified on the product nameplate or in the product specification, and the current rating also relates to the maximum reverse current that can be applied to a single module. For example, when a module is shaded, other modules connected to it will form a load causing a current loop. Depending on the maximum fuse current rating of the modules and the local electrical installation standards, the connection of parallel strings of modules needs to be fitted with suitable fuse protection for circuit protection reasons.
- Open the combiner box of the control system and connect the conductor from the PV arrays to the combiner box in accordance with the design and local codes and standards. The cross-sectional area and cable connector capacity must satisfy the maximum short-circuit of the PV system (for a single module, it is recommended that the cross-sectional area of cables be 4mm² and certified to IEC 62930 type 131), otherwise cables and connectors will become overheating for large current. Please pay attention that the temperature limit of cables is 90°C.
- *Jinko* modules junction boxes contain factory-installed bypass diodes. These diodes are connected in parallel with each cell string to allow the current flow to the next cell array in case there are hot spots or partial shadows in any of the other cells' string. This will avoid performance and heating losses.
- If modules are incorrectly connected to each other, the bypass diodes, cables or junction boxes may be damaged.
- Keep in mind that bypass diode is not an over-current protection.
- Please do not try to open module junction boxes by yourself.
- Bypass diodes from different manufacturers should not be mated together. If such a replacement is needed, please contact *JinKoSolar*.
- For floating projects, please contact local technical support.

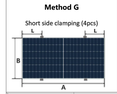
5.2 Wiring and cables

- The wiring and cable management should be designed, reviewed and approved by the EPC contractor, especially for assemblies using tracking brackets. The required cable lengths should be checked in advance, to ensure good functionality and proper installation.
- The wiring should be checked for correctness before starting the system. If the measured open-circuit voltage (Voc) and short-circuit current (Isc) do not match the specifications provided, there may be a wiring fault.
- Each string should be left open-circuit until the system is connected to the grid after the modules have been installed. Appropriate protection is required to avoid the ingress of water vapour and dust.
- *JinkoSolar* recommends the following wiring methods (see Table 9).

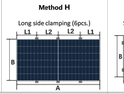
Vertical mounting: Select standard cables	 Dual-row module wiring schematic	 Single-row module wiring schematic

Railless clamping

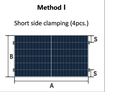
Method G
Short side clamping (4pcs)



Method H
Long side clamping (6pcs.)



Method I
Short side clamping (4pcs.)



Mounting method /Range / Module Type / Height	Method G L= A/4±50	Method G L=A/5~A/4	Method G L= A/5±50	Method H L1 = A/4±50 L2=(A/2-L1) ±50	Method I S=0-100
	Maximum test load (Pa)				
N-54HL4R-(V) N-54HL4R-BDB	/	/	/	+4800/-2400	+1600/-1600
N-54HL4-(V) N-54HL4R-B	/	/	+4200 /-2400	/	+1600/-1600
N-60HL4-(V)	/	/	/	/	+1600/-1600
N-72HL4-(V) M-72HL4-(V) M-72HL4-TV (B35)	/	+2400 /-2400	/	/	/
N-72HL4-BDV M-72HL4-BDVP	+3000 /-2400	/	/	+3600/-2400	+1000/-1000
N-78HL4-BDV	+2800 /-2400	/	/	+3400/-2400	/

Table 7 Maximum test load values for different modules with clamps mounted without rails

The minimum dimensions of clamps specified in this installation manual have been tested and verified through the installation process and serve as a baseline for proper installation. However, it is important to note that these minimum values may not guarantee compatibility with all variations of clamps that may exist in the market. Using clamps with dimensions lower than the recommended minimums may result in insufficient clamping force and compromise the integrity of the installation.

It is important to ensure that any alternative clamps used in the installation meet the necessary performance standards and do not compromise the safety and integrity of the system.

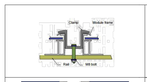
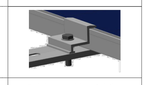
	
	
Middle clamp module installation	**End clamp module installation**

Table 4 PV module installed at the side with Clamp mounting

Please thoroughly review the maximum test load specified for each module type, contingent on the chosen installation method.

early morning or late afternoon hours when solar irradiation is low and the modules are cooler, especially in regions with hot temperatures.

- Never attempt to clean PV module with broken glass or other signs of exposed wiring, as this presents a shock hazard.
- Never use chemicals when cleaning modules as this may affect the module warranty and energy yield. For the environment with extreme climate, please contact *JinKoSolar* after-sales department for specific requirement if needed.
- For single-side module, backsheet cleaning is not necessary; for dual-glass module, cleaning the module backside regularly when necessary, and follow the requirements in 6.1 a) – e). Please wear insulated gloves and pay special attention to the cables and electrical connections during the backside cleaning.
- If a water gun is used to flush the modules, be careful of the water pressure to avoid damaging the modules.
- If using a hose or backpack style pressure set we recommend the pressure of the water should be less than 675kPa.

6.3 Inspection of Connectors and Cables

It is recommended to implement the following preventive maintenance every 6 months:

- Check the sealing gels of the junction box for any damage.
- Examine the modules for signs of deterioration. Check all wiring for possible rodent damage, weathering and that all connections are tight and corrosion free. Check the electrical grounding.

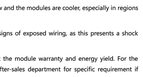
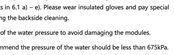
Vertical mounting: Custom length cables	 Leapfrog wiring
Horizontal mounting: Custom length cables	 Module wiring schematic

Table 9 Module wiring schematic

(Note: the exact number of series connections will be determined according to the actual design)

- When wiring modules, always keep in mind the minimum bend radius (see Figure 7). This minimum bend radius is the permissible curvature the cable can be bent around. Depending on the type of cable, a specific coefficient (Cable multiplier), must be applied. For our DC cables this parameter is 4.

$$Minimum\ Bend\ Radius\ (R) = Cable\ Outer\ Diameter\ (d) \cdot Cable\ Multiplier$$

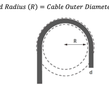


Figure 7 Minimum Bend Radius

- *Jinko* does not guarantee the safety of products and technical parameters consistency if the connecting heads and tools used are not officially specified by *Jinko* or are not installed according to the official requirements.
- Before the commissioning and operation of the power station, verify the electrical connection of modules and strings, ensuring all connections and polarities are correct, and the open circuit voltage meets the requirements of the acceptance criteria. Incorrect connections may lead to electric arc and electric shock. Please always check that all electric connections are reliable and that all connectors are fully locked.
- Open the combiner box of the control system and connect the conductor from the PV arrays to the combiner box in accordance with the design and local codes and standards.
- Three split junction boxes (see in Figure 8) with IP68 installed in *Jinko* modules provide the necessary safety protection for cable and wiring connections, including contact protection of non-insulating electric parts.

4.3 Tracker Installation

JinkoSolar modules also have high compatibility with various mainstream tracker systems in the industry. The maximum test load that *JinkoSolar* module can achieve is as listed in Table 8 below.

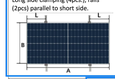
Module type	Tracker system	Installation	Test load (Pa)
N-54HL4-(B)-(V)	ATI V3	Through bolt clamp 1300/1400 mm	+4100/-3200
N-72HL4-(V)	NEXTracker 1P	400 mm hole distance	±2400
N-78HL4-(V)	NEXTracker 1P	400 mm hole distance	±1800
M-72HL4-BDVP N-72HL4-BDV	NEXTracker 1P	400 mm hole distance	±2400
	PVH AXONE DUO-INFINITY	Short rail 91x428x1, Hole spacing 1086mm Length fixation 400mm	±1800
	ATI V3	Hi-rise clamp 300 mm	±1200
		Hi-rise clamp 400 mm	+1500/-1400
		Through bolt clamp 1300 mm bolting at 1100 mm position only	±2400
		Through bolt clamp 1400 mm bolting at 400 mm and 1400 mm positions	±3300
N-78HL4-BDV	NEXTracker 1P	400 mm hole distance	±1800
	PVH AXONE DUO-INFINITY	Short rail 91x428x1 Hole spacing 1096mm Length fixation 400mm	±1600
		Long rail 29x1228x1.5 Hole spacing 1096mm Length fixation 400mm and 1200mm	+2100/-2300
	ATI V3	Hi-rise clamp 300 mm	±1200
	ATI V3	Hi-rise clamp 400 mm	±1200
N-66HL4M-BDV	PVH AXONE DUO-INFINITY	Short rail 91x428x1 Hole spacing 1092mm Length fixation 400mm	+1600/-1650
		Long rail 29x816x1.5 Hole spacing 1092mm Length fixation 400mm and 790mm	+1600/-1900

Table 8 Tracker installation methods and related maximum test loads

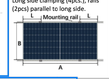
Avoid installing PV modules above torque tube connector, post heads or any other part of tracker higher than the torque tube if there is not a certain horizontal distance (recommend 300mm - 500mm) between edge of the module and any of those tracker parts. The aim of this distance range is to prevent interference between the tracker structure and the module junction box during tracker rotation, which may cause damage to the junction box and affect module performance.

Long side clamping (with rails)

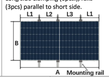
Method A
Long side clamping (4pcs.), rails (2pcs) parallel to short side.



Method B
Long side clamping (4pcs.), rails (2pcs) parallel to long side.



Method C
Long side clamping (6pcs.), rails (3pcs) parallel to short side.



Mounting method /Range / Module Type / Height	Method A L= A/4±50	Method A L=A/5~A/4	Method A L= A/5±50	Method B L= A/4±50	Method B L= A/5±50	Method C L1=450 L2=(A/2-L1+50) L3=(A/2-L1-50)
	Maximum test load (Pa)					
N-54HL4R-BDB	/	/	+6000 /-4000	/	/	/
N-54HL4R-(V) N-54HL4R-B	/	/	+6000 /-4000	/	+2400 /-2400	+6000 /-3000
N-72HL4-BDX	+6000 /-4000	/	/	/	/	/
N-60HL4-(V)	/	/	+5400 /-2400	/	+2400 /-2400	/
M-72HL4-BDVP	+5400 /-2400	/	/	+3000 /-2400	/	/
N-66HL4M-BDV	/	+5400 /-2400	/	/	/	/
N-66HL4M-BDX	+6000 /-4000	/	/	/	/	/
N-66HL4M-V M-72HL4-(V) N-72HL4-(V)-L	/	+5400 /-2400	/	/	/	/
N-72HL4-(V)	/	+5400 /-2400	/	/	/	+5600 /-2400
N-72HL4-(V) (B35) M-72HL4-(V) (B35) M-72HL4-TV (B35)	+5400 /-2400	/	/	/	/	+5800 /-2400
N-72HL4-BDV	/	/	+5400 /-2400	+3000 /-2400	/	/
N-78HL4-BDV	/	/	+5400 /-2400	+2800 /-2400	/	/

Table 5 Maximum test load values for different modules with long side clamps mounted with rail

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M.
NO. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8049

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cac@thomaelec.com

PV MODULE INSTALLATION MANUAL

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

PV1.3

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PV MODULE INSTALLATION MANUAL
SCALE: NTS

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STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SAB-E
Project Name: Dana ES New Classroom Bldg	**Report Page:**	**(Page 5 of 5)**
Project Address: 920 W Tefft Street	**Date Prepared:**	9/17/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Jeffrey M. Thoma	Documentation Author Signature:
Company: Thoma Electric, Inc	Signature Date: 2025-09-17
Address: 3562 Empleo Street	CEA/ HERS Certification Identification (if applicable): E20823
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

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: Jeffrey M. Thoma	Responsible Designer Signature:
Company: Thoma Electric, Inc.	Date Signed: 2025-09-17
Address: 3562 Empleo Street	License: E20823
City/State/Zip: San Luis Obispo CA 93401	Phone:

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SAB-E
Project Name: Dana ES New Classroom Bldg	**Report Page:**	**(Page 3 of 5)**
	Date Prepared:	9/17/2025

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
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(d)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: Dana ES New Classroom Bldg	**Report Page:**	**(Page 1 of 5)**
Project Address: 920 W Tefft Street	**Date Prepared:**	9/17/2025

A. GENERAL INFORMATION

01	Project Location (city)	Nipomo	04	Building Occupancies	
02	Climate Zone	5	05	Construction Type	New construction w/ roof <=533 ft²
03	Conditioned Floor Area (ft²)	0	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)	The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table J.
☐	Exception to PV and Battery: Not enough Solar Access Roof Area	The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J.
☐	Exception to PV and Battery: Required PV < 4kW	The required PV system size is less than 4 kW dc as documented in Table J..
☐	Exception to PV and Battery: No contiguous Solar Access Roof Area	The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.
☐	Exception to PV and Battery: Can't meet snow load	The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.
☐	Exception to PV and Battery: Multi-tenant without VNEM or Community Solar	The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program.
☐	The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.	

STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

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J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This table documents compliance with prescriptive photovoltaic and battery system requirements in 140.10/ 170.2(g and h). Unless the project meets one of the listed exceptions, or trades-off PV in an energy model using performance path, 140.10/ 170.2(g and h) requires installed photovoltaic and battery systems for newly constructed buildings. The installed PV systems must meet the minimum requirements in Joint Appendix 11.

Photovoltaic (PV) System

01	02	03	04	05	06	07	08
Occupancy	Conditioned Floor Area (ft²)	Area of New Roof[1] (ft²)	Roof Area < 70% Solar Access[2] (ft²)	Plansheet or Document showing Solar Access Calculations	Occupied Roof Area[3] (ft²)	Solar Access Roof Area (SARA) (ft²)	Min Size of PV System Required (kWdc)
School or Classroom	4,326	5,990	0	PV1.0	0	5,990	5.49
					Total Min Size PV System Required for all Spaces (kWdc):		5.49
					Total Size PV System in Design (kWdc):		6.24

[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

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

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
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CERTIFICATE OF COMPLIANCE		NRCC-SAB-E
Project Name: Dana ES New Classroom Bldg	**Report Page:**	**(Page 2 of 5)**
	Date Prepared:	9/17/2025

Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamily and hotel/ motel occupancies only)

	01	
☐	The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H. Compliance meets Exception 2 to solar ready requirements in 110.10(b).	

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below.

Allocated Solar Zone				Installed PV System				Installed SWH System				Smart Tstat and Alternative EE Measure		Compliance Results
01		02		03		04		05		06		07	08	
Required Minimum Area (ft²)	<=	Designated Area (ft²)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR	Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)				(See Tables G or J)				(See Table H)				(See Table I)		
	<=		OR	5,494	<=	6,240	OR		<=		OR			COMPLIES
				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).										
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J.														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 is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125585 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/25/2026
(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
NO. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8049

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

PHOTOVOLTAIC TITLE 24 COMPLIANCE FORMS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

PV2.0