G0.00 - COVER

LODI UNIFIED SCHOOL DISTRICT

DAVIS ELEMENTARY SCHOOL MODERNIZATION

08/22/2025

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THE CODES AND ALL APPLICABLE LOCAL ORDINANCES. WHERE CONTRACT DOCUMENTS EXCEED SUCH REQUIREMENTS, WITHOUT VIOLATING SUCH CODES, REGULATIONS AND ORDINANCES, CONTRACT DOCUMENTS TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.
2. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND PROJECT MANUAL (SPECIFICATIONS) AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
3. REFER TO THE PROJECT MANUAL (SPECIFICATIONS) FOR GENERAL CONDITIONS, SUPPLEMENTARY AND SPECIAL CONDITIONS, AND OTHER REQUIREMENTS.
4. THE CONSTRUCTION DOCUMENT DRAWINGS AND PROJECT MANUAL (SPECIFICATIONS) ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
5. THE CONTRACTOR SHALL:
   A. CONFIRM ALL NEW AND EXISTING CONDITIONS WITH THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ALL DISCREPANCIES OR CONFLICTS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY THE ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM THE ARCHITECT, IT SHALL BE AT THE CONTRACTOR'S RISK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
   B. REVIEW THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF SYSTEMS SHOWN ON CONSULTING ENGINEER'S DOCUMENTS. DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEER'S DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
   C. CORRECT ALL WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS BY THE CONTRACTOR AS DIRECTED BY THE ARCHITECT AND AT NO ADDITIONAL EXPENSE TO THE OWNER.
   D. VISIT JOB SITE PRIOR TO BEGINNING WORK AND VERIFY ALL DIMENSIONS.
   E. SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE WORK ACCORDINGLY.
   F. PROVIDE FOR THE PROPER SEQUENCE OF CONSTRUCTION, LOCATION, AND SIZE OF OPENINGS. COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY THE ARCHITECT.
   G. PROVIDE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. PROVIDE TEMPORARY PASSAGES AS REQUIRED. PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE, CHECK WITH OWNER FOR ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES USE AREA OUTSIDE THE CONSTRUCTION ZONE WITHOUT PRIOR CLEARANCE FROM THE OWNER. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT MANUAL.
   H. REMOVE ALL TRASH AND DEBRIS DAILY. DO NOT STORE BUILDING MATERIALS IN CORRIDORS AT ANY TIME. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT MANUAL (SPECIFICATIONS).
   I. ENACT ALL MEASURES TO PROTECT IN PLACE AND SAFEGUARD ALL ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR ELEMENTS DAMAGED BY THE EXECUTION OF THE CONTRACT TO EQUAL OR LIKE NEW CONDITION.
   J. VERIFY POINTS OF CONNECTION, INCLUDING SIZES AND LOCATIONS, AND ALL OTHER REQUIRED OPERATING CRITERIA WITH EQUIPMENT MANUFACTURER.
   K. COORDINATE THE LOCATION AND TYPE OF ALL ACCESS PANELS REQUIRED FOR ACCESSING MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER BUILDING SYSTEMS WITH THE ARCHITECT.
   L. ENSURE ALL CONSTRUCTION REMAINS ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED BY THE INSPECTOR OF RECORD. FOR CONTINUOUS INSPECTION, TESTING, AND OBSERVATION REQUIREMENTS, REFER TO THE TESTING AND OBSERVATION PROGRAM.
   M. STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE AND COMPLY WITH APPLICABLE CODES AND REGULATIONS. CONTRACTORS SUBSTITUTION OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO OWNER.
6. DO NOT SCALE THE CONSTRUCTION DOCUMENTS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ALL ADDITIONAL REQUIRED DIMENSIONS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY THE ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM THE ARCHITECT, IT SHALL BE AT THE CONTRACTOR'S RISK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
7. WHERE WORK OR EQUIPMENT IS INDICATED "N.I.C." (NOT IN CONTRACT) ON THE DRAWINGS, SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION.
8. ALL PLAN DIMENSIONS SHOWN AT CENTER OF WALL REPRESENT CENTER LINE OF STUD OR STRUCTURAL ELEMENT UNLESS NOTED OTHERWISE.
9. ALL PLAN DIMENSIONS FOR MASONRY AND CONCRETE REPRESENT FACE OF MATERIAL AND OPENING UNLESS NOTED OTHERWISE.
10. ALL PLAN DIMENSIONS FOR STUD WALLS REPRESENT FACE OF STUD UNLESS NOTED OTHERWISE.
11. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW OF THE ARCHITECT UNLESS NOTED (±) OR "VERIFY". DIMENSIONS NOTED "HOLD" SHALL BE CONSIDERED AS ABSOLUTE AND USED FOR LAYOUT CONTROL UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.

    ANY ITEM, CONDITION OR DIMENSION NOTED AS "FIELD VERIFY" OR "VERIFY IN FIELD" SHALL BE CONFIRMED ON SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT OF RECORD BEFORE INCORPORATING INTO THE WORK.
12. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF SLAB UNLESS NOTED "AFF" (ABOVE FINISH FLOOR)
13. "TYPICAL" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. WHEN A DETAIL OR NOTE IS IDENTIFIED AS "TYPICAL", THE CONTRACTOR SHALL APPLY THIS DETAIL OR NOTE TO EVERY LIKE CONDITION, WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.
14. PROVIDE WORK NOT SPECIFICALLY DETAILED OR SPECIFIED IN ACCORDANCE WITH DETAILS OR SIZES COVERING SIMILAR WORK.
15. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.
16. ABBREVIATIONS THROUGHOUT THE DOCUMENTS COMPLY WITH DOCUMENT ABBREVIATION LIST OR ARE THOSE IN COMMON USE. ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.
17. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY
18. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF PBK ARCHITECTS, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF PBK ARCHITECTS, INC.
19. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, PBK ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS PBK ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.
20. FIRE SAFETY DURING CONSTRUCTION:
    A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND CHAPTER 33.
    B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTERS, SECTION 501.4 AND CHAPTER 33, SECTION 3310.
    C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATION IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3312.
    D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES.
    E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.
    F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS IN ACCORDANCE WITH CHAPTER 33, SECTION 3304.5. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.
    G. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN SITE SAFETY PLAN.
21. PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.
22. CUTTING, BORING, SAW-CUTTING OR DRILLING THROUGH STRUCTURAL ELEMENTS SHALL NOT COMMENCE UNTIL THE DRAWINGS HAVE BEEN SUMITTED, REVIEWED, AND APPROVED BY THE ARCHITECT OF RECORD.
23. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):

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

    ENVELOPE MANDATORY MEASURES:
    A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.
    B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 720 AND 2603.
    C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
    D. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).
    E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 110.6.
    F. MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (NFRC) NATIONAL FENESTRATION RATING COUNCIL'S INTERIM U-VALUE RATING PROCEDURE.
    G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).
24. INSPECTOR OF RECORD REQUIREMENTS:
    A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTORS DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL BE AS STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.
    B. INSPECTOR SHALL BE CERTIFIED AS A CLASS _2_ INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPACTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.
25. ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
26. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY TITLE 24, CCR, PART 1, SECTION 4-338.
27. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
28. DRINKING WATER SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS.
29. FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH REQUIREMENTS AND THE CALIFORNIA RETAIL FOOD FACILITIES LAW.
30. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
31. ALL SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING INDICATED ON THESE DRAWINGS WAS DESIGNED IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE ACCESSIBILITY STANDARDS OF THE CALIFORNIA BUILDING CODE (CBC) TITLE 24, PART 2, CHAPTER 11B OF THE CALIFORNIA CODE OF REGULATIONS (CCR). STRICT EXECUTION OF THE SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SHOULD A CONDITION PRESENT ITSELF THAT WOULD RESULT IN AN INSTALLATION OTHER THAN WHAT IS INDICATED IN THESE DRAWINGS, PBK ARCHITECTS INC. SHALL BE NOTIFIED IN WRITING AND A COMPLIANT RESOLUTION WILL BE FORMULATED.
32. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
33. THE CALIFORNAI 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.
34. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
35. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
36. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
37. A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAM-AND-TOPICS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
38. 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
39. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

DRAWING CONVENTIONS

- 1 / A101 — ENLARGED PLAN / DETAIL ENLARGEMENT
- 1 / A6.00 — EXTERIOR ELEVATION
- 1 / A7.10 — BUILDING SECTION
- 1 / A7.10 — WALL SECTION
- 1 / A9.00 — DETAIL SECTION
- A, B, C, D, 106 / A6.20 — INTERIOR ELEVATIONS
- ROOM NAME / 106 — ROOM NAME & NUMBER
- 1 / A2.00 — MATCH LINE
- NAME / ELEVATION — FLOOR / DATUM LINE
- A — GRID / COLUMN LINE
- A — EXISTING GRID / COLUMN LINE
- 66.1 / 4" | 0" — NEW PARTITION
- PARTITION TYPE — *REFER TO SHEET A7.00 FOR DEFINITION*
- EXISTING PARTITION
- 106B — DOOR DESIGNATION
- A — WINDOW DESIGNATION
- 6'-6" / 5'-6" / 12'-0" — DIMENSIONS — *NOTE: ALL DIMENSIONS TO FACE OF STUD / ℄ OF COLUMN UNLESS NOTED OTHERWISE*
- 302 / 36"x0"x30" — W.I. CABINET REFERENCE — *WIDTH x DEPTH x HEIGHT*
- TA3 — EQUIPMENT DESIGNATION
- 09 21.00 — CONSTRUCTION KEYNOTE
- D.00 — DEMOLITION KEYNOTE
- 1 — REVISION / REVISION NUMBER
- REFERENCE NORTH / TRUE NORTH — NORTH ARROWS

ABBREVIATIONS

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

CODES & STANDARDS

PARTIAL LIST OF APPLICABLE CODES

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

PARTIAL LIST OF APPLICABLE STANDARDS

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

STATEMENT OF GENERAL CONFORMANCE

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

Application No. 02-123250 File No. 39-50

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

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

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

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

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

Michele Gargano — Signature — 02-12-2026 Date
Architect or Engineer designated to be in general responsible charge
MICHELE GARGANO — Print Name — 02-12-2026 Date
C-32550 — License Number — 03-31-2027 Expiration Date

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 OT HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

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

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

G0.01 - SHEET INDEX

SHEET INDEX

GENERAL

G0.00	COVER
G0.01	SHEET INDEX
G0.02	SITE DATA & CODE REVIEW
G0.03	ACCESSIBILITY GUIDELINES
G0.04	SIGNAGE
G0.05	INTERIOR PARTITION TYPES
G0.06	BUILDING CODE REVIEW & SIGNAGE - BLDGS A,B,C,H,I
G0.07	BUILDING CODE REVIEW & SIGNAGE - BLDGS D & J
G0.08	BUILDING CODE REVIEW & SIGNAGE - BLDGS E & F

DEMOLITION

D1.01	DEMOLITION SITE PLAN
D2.10	DEMOLITION FLOOR PLANS - BLDGS A,B,C,H,I
D2.11	DEMOLITION FLOOR PLANS - BLDG D
D3.10	DEMOLITION REFLECTED CEILING PLANS - BLDGS A,B,C,D,I,H
D3.11	DEMOLITION REFLECTED CEILING PLANS - BLDGS D,E,F
D5.10	DEMOLITION EXTERIOR ELEVATIONS - BLDGS A,B,C
D5.11	DEMOLITION EXTERIOR ELEVATIONS - BLDGS D,H,I

CIVIL *

C0.0	CIVIL GENERAL NOTES AND ABBREVIATIONS
C0.1	PARTIAL TOPOGRAPHIC SURVEY
C0.2	PARTIAL TOPOGRAPHIC SURVEY
C1.1	PARTIAL DEMOLITION PLAN
C1.2	PARTIAL DEMOLITION PLAN
C1.3	ENGINEERED FILL PLAN
C2.1	PARTIAL GRADING PLAN
C2.2	PARTIAL GRADING PLAN
C3.1	UTILITY PLAN
C4.1	PAVING PLAN
C4.2	STRIPING AND SIGNAGE PLAN
C5.1	DETAILS

LANDSCAPE *

L1.1	IRRIGATION PLAN
L2.1	PLANTING PLAN
L3.1	IRRIGATION DETAILS
L3.2	PLANTING DETAILS

ARCHITECTURAL

A1.01	SITE PLAN
A1.02	ENLARGED SITE PLAN
A1.03	SITE DETAILS
A2.10	FLOOR PLANS - BLDGS A,B,C,H,I
A2.11	FLOOR PLANS - BLDGS D, E & F
A2.12	FLOOR PLANS & ROOF PLANS - BLDG J
A2.30	ENLARGED RESTROOM PLANS & ELEVATIONS
A3.10	REFLECTED CEILING PLANS - BLDGS A,B,C,H,I
A3.11	REFLECTED CEILING PLANS - BLDGS D & J
A5.10	EXTERIOR ELEVATIONS - BLDGS A,B,C
A5.11	EXTERIOR ELEVATIONS - BLDGS D,H,I
A5.12	EXTERIOR ELEVATIONS - MODULAR BLDG J
A6.11	WALL SECTIONS
A7.01	INTERIOR ELEVATIONS - BLDGS A,B,C,D,I,H
A7.02	INTERIOR ELEVATIONS - BLDG D
A7.03	INTERIOR ELEVATIONS - BLDGS H & J
A9.01	WINDOW TYPES & DETAILS
A9.02	DOOR TYPES & DETAILS, SCHEDULES
A10.10	CEILING DETAILS
A10.40	INTERIOR DETAILS
A10.50	EXTERIOR DETAILS

STRUCTURAL *

S0.01	GENERAL NOTES
S0.02	GENERAL MATERIAL NOTES
S0.11	TYPICAL FOUNDATION & SOG DETAILS
S0.13	TYPICAL CONCRETE DETAILS
S0.61	TYPICAL WOOD DETAILS
S1.01	FOUNDATION PLANS
S1.02	FOUNDATION PLANS
S2.01	ROOF FRAMING PLANS
S2.02	ROOF FRAMING PLAN
S3.01	EXTERIOR ELEVATIONS BLDGS A, B, C
S3.02	EXTERIOR ELEVATIONS BLDGS D, H, I
S5.01	DETAILS

MECHANICAL *

M0.01	MECHANICAL SHEET INDEX, LEGEND, NOTES & SCHEDULES
M2.11	MECHANICAL FLOOR PLANS
M6.01	MECHANICAL DETAILS

PLUMBING *

P0.01	PLUMBING SHEET INDEX, LEGEND, NOTES
P1.01	PLUMBING SITE PLAN
PD2.10	PLUMBING DEMOLITION PLANS - WASTE & VENT
PD2.20	PLUMBING DEMOLITION PLANS - COLD & HOT WATER
P2.10	PLUMBING FLOOR PLANS - WASTE & VENT
P2.20	PLUMBING FLOOR PLANS - COLD & HOT WATER
P6.01	PLUMBING DETAILS
P7.01	PLUMBING ENERGY COMPLIANCE DOCUMENTATION

ELECTRICAL *

E0.01	ELECTRICAL SHEET INDEX, LEGEND & NOTES
E0.02	PHOTOVOLTAIC GENERAL NOTES
E0.03	T24 EXTERIOR LIGHTING ENERGY REPORTS
ED1.01	ELECTRICAL DEMOLITION SITE PLAN
E1.01	ELECTRICAL SITE PLAN
ED2.01	ELECTRICAL DEMOLITION FLOOR PLANS
E2.01	ELECTRICAL FLOOR PLAN
E6.01	ELECTRICAL ONE LINE
E6.02	ELECTRICAL ONE LINE
E6.03	ELECTRICAL SCHEDULES
E6.04	ELECTRICAL DETAILS
E6.05	PHOTOVOLTAIC DETAILS

FIRE ALARM *

FA0.0	FIRE ALARM COVER SHEET
FA1.0	FIRE ALARM SITE PLAN
FA1.1	FIRE ALARM FLOOR PLAN BUILDINGS D, E & F
FA1.2	FIRE ALARM FLOOR PLAN BUILDINGS A, B & C
FA1.3	FIRE ALARM FLOOR PLAN BUILDINGS I, H & NEW MODULAR
FA2.0	FIRE ALARM RISER DIAGRAM
FA3.0	FIRE ALARM CALCULATIONS
FA4.0	FIRE ALARM DETAILS
FA4.1	FIRE ALARM DETAILS

TECHNOLOGY*

T0.01	TECHNOLOGY SHEET INDEX, LEGEND & NOTES
T1.01	TECHNOLOGY SITE PLAN
TD1.01	TECHNOLOGY DEMOLITION & SITE PLAN
TD2.01	TECHNOLOGY DEMOLITION FLOOR PLANS
T2.01	TECHNOLOGY FLOOR PLAN
T2.02	TECHNOLOGY FLOOR PLAN - NEW MODULAR BUILDING
T6.01	TECHNOLOGY DETAILS

PC DRAWINGS 04-122188

LS1.0	GENERAL INFO
LS1.1	GENERAL INFO
LS1.2	DSA 103
LS1.3	DSA 103
LS3.0	30' WIDE RECTANGULAR GABLE FOUNDATION PLAN
LS3.1	30' WIDE RECTANGULAR GABLE FRAMING & CONNECTION DETAILS
LS3.4	30' WIDE RECTANGULAR GABLE STANDING SEAM ROOFING PLAN

MODULAR BUILDING MANUFACTURER

T-0	COVER SHEET WITH DRAWING INDEX, DESIGN LOADS, BUILDING DESCRIPTION & CODE REFERENCES
A-1	FLOOR PLAN & REFLECTED CEILING PLAN
A-2A	CEILING DETAILS
A-3	ARCHITECTURAL CROSS SECTIONS
A-3.1	ARCHITECTURAL CROSS SECTIONS
A-4	ARCHITECTURAL DETAILS
A-5	EXTERIOR ELEVATIONS
A-6	INTERIOR ELEVATIONS
A-7	DOOR & WINDOW TYPES DOOR & FINSH SCHEDULES SIGNAGE DETAILS AND ACCESSIBLE MOUNTING HEIGHTS
A-8	ROOF PLAN
A-9	ARCHITECTURAL BUILDING SECTIONS
SF-0.1	FOUNDATION DETAILS
SF-0.2	FOUNDATION DETAILS
SF-1	FOUNDATION PLAN
SF-2.1	FOUNDATION DETAILS
SF-2.2	FOUNDATION DETAILS
SF-2.3	FOUNDATION DETAILS
S-0.1	STRUCTURAL NOTES
S-0.2	STRUCTURAL NOTES
S-1	ROOF FRAMING PLAN
S-2.1	STRUCTURAL DETAILS
S-2.2	STRUCTURAL DETAILS
S-3	STRUCTURAL CROSS-SECTION
S-4	WALL ANCHOR DETAILS
S-4.1	STRUCTURAL NOTES & DETAILS
S-5	TYPICAL WALL FRAMING ELEVATIONS
CG-1	CALGREEN COMPLIANCE DOCUMENTATION
CG-2	CALGREEN COMPLIANCE DOCUMENTATION
CG-3	CALGREEN COMPLIANCE DOCUMENTATION
M0.1	MECHANICAL LEGEND, SCHEDULES AND NOTES
M2.1	MECHANICAL FLOOR PLAN
M4.1	MECHANICAL SPECIFICATIONS
M4.2	MECHANICAL SPECIFICATIONS
M4.3	MECHANICAL SPECIFICATIONS
M5.1	MECHANICAL DETAILS
M6.1	MECHANICAL CONTROLS
P0.1	PLUMBING LEGEND, SCHEDULES AND NOTES
P2.1	PLUMBING FLOOR PLANS
P4.1	PLUMBING SPECIFICATIONS
T-24A	TITLE 24 REPORTS
T-24B	TITLE 24 REPORTS
E000	GENERAL INFORMATION
E300	LIGHTING AND POWER PLAN
E700	SCHEDULES
E800	DETAILS & DIAGRAMS
E900	T24 INTERIOR LIGHTING
E910	T24 EXTERIOR LIGHTING
E920	T24 POWER
PVS-1	PV SUPPORT & ANCHORAGE DETAILS
PVS-2	PV SUPPORT & ANCHORAGE MEMBER CUTSHEETS
PVS-3	PV SUPPORT & ANCHORAGE MEMBER CUTSHEETS

SHEET COUNT: 162

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32592
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

SHEET INDEX

G0.01

This document is for plan review only

D:_RevitLocal\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/24/2026 4:27:59 PM

CEN - CAL FIRE SYSTEMS, INC.
A DIVISION OF: sciens Building Solutions

1615 S. Stockton Street
Lodi Ca. 95240
Ph: 209.334.9119 / Fax: 209.334.2923
CA LIC NO 488547 / NV LIC NO 35006

FIRE HYDRANT FLOW TEST

Job Number: MISC - 1

Date: April 25, 2025

Contracted By: Lodi Unified School District.
880 N. Guild Avenue
Lodi, CA 95240
Phone: (209) 331-7184
Fax: (209) 331-7632

Project: Propose Building Addition at
Davis Elementary School
5224 E. Morada Lane
Stockton, CA 95212

Attention: Lance Brown / Marc Karim
Construction Project Specialist at F&P
Cell: (209) 712-6354
Email: lbrown@lodiusd.net / mkarim@lodiusd.net

CEN-CAL FIRE SYSTEMS, INC. — C-16 CALIFORNIA LICENSE NO. 488547 — FIRE PROTECTION CONTRACTOR

From: David Saenz

Hydrant Flow Date: April 24, 2025

Fire Hydrant Test Data:

Static Pressure:	55	PSI			
Residual Pressure:	40	PSI	@	177.0	GPM
Calculated Flow:	20	PSI	@	279.8	GPM
Pitot Pressure:	41	PSI	@ Outlet Size	1.0	Inch Pilotless Nozzle

Test Hydrant Elevation: +2.5 Ft. Above Finish Grade

Test Hydrant Location: Flow FH is located on the playground south of the classrooms and Gauge FH is located north of the school in the parking lot from E. Morada Lane using FM Approved Little Hose Monster 1" Pilotless Nozzle to hydrant outlet flowing to Open Atmosphere.

Test Equipment used: FM Approved Little Hose Monster 1" Pilotless Nozzle connected directly to hydrant outlet flowing to Open Atmosphere.

Comments:

If you have any questions or need further assistance, please contact me at our office.

Thank You.

David Saenz
David Saenz
Project Manager

Hydrant Flow Test Report

Test Date 04/24/2025 **Test Time** 2:30 PM

Location
Propose Building Addition at
Davis Elementary School
5224 E. Morada Lane
Stockton, CA 95212

Tested by
David Saenz
Cen-Cal Fire Systems, Inc.
1615 South Stockton Street Street
Lodi, CA 95240
(209) 334-9119

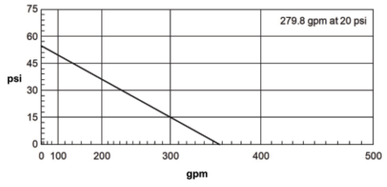
Notes
Flow FH located on playground south of classrooms and Gauge FH located north of school in parking lot at E Morada Lane using FM Approved Little hose Monster 1"Pitotless Nozzle flowing to Open Atmosphere.

Read Hydrant
55 psi **static pressure**
40 psi **residual pressure**
2.5 ft **hydrant elevation**

Flow Hydrant(s)

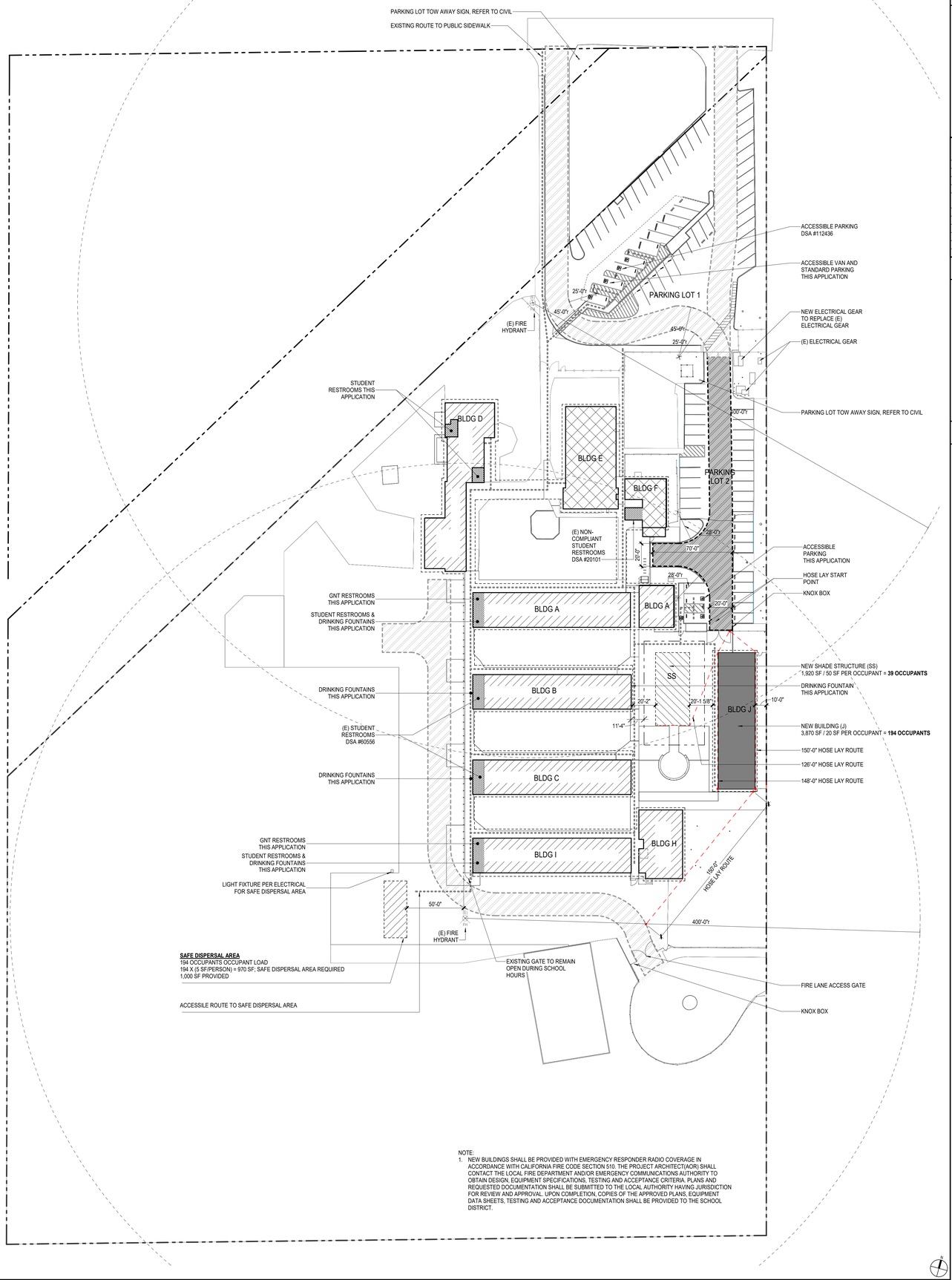
Outlet	Elev	Size	C	Pitot Pressure	Flow
#1	2.5	1.0	0.925	41	177 gpm

Flow Graph









NOTE:
1. NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT(AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

ACCESS SITE PLAN LEGEND

- PROPERTY LINE
- ACCESSIBLE PATH OF TRAVEL
- NEW BUILDING
- (E) BUILDING IN SCOPE
- (E) RESTROOM LOCATION
- PROPOSED SHADE STRUCTURE
- ASSUMED PROPERTY LINE
- (E) FIRE HYDRANT
- (E) FIRE ACCESS LANE
- PROPOSED FIRE ACCESS LANE
- (E) BUILDING, NOT IN SCOPE
- 1-HOUR RATED EXTERIOR WALL

BUILDING INDEX

UNIT	DESCRIPTION	S.F.	OCC.	TYPE	DSA #	SPRINKLERED
A	CLASSROOMS	5,924	A3, E	V-N	#02-16013, #02-60556	NO
B	CLASSROOMS	4,587	E	V-N	#02-16013, #02-60556	NO
C	CLASSROOMS	4,587	E	V-N	#02-16013, #02-60556	NO
D	ADMINISTRATION	5,115	E, B	V-N	#02-16013, #02-20101, #02-60556, #02-106307	NO
E	MULTIPURPOSE	4,330	A3, B	V-1HR	#02-16013, #02-60556	NO
F	CUSTODIAL	1,468	B	V-N	#02-20101, 02-106307	NO
H	CLASSROOMS	2,600	E	V-N	#02-28777, 02-106307	NO
I	CLASSROOMS	4,579	E	V-N	#02- 19175, #02-28778, #02-60556	NO
J	CLASSROOM	3,870	E	V-N	THIS APPLICATION	NO
SS	SHADE STRUCTURE	1,200	A3	II-B	THIS APPLICATION	NO

PARKING CALCULATION

(E) PARKING LOT 1

STANDARD STALLS	46
VAN ACCESSIBLE STALLS	1
STD ACCESSIBLE STALLS	3
SUBTOTAL	**50**

(E) PARKING LOT 2

STANDARD STALLS	31
VAN ACCESSIBLE STALLS	1
STD ACCESSIBLE STALLS	1
SUBTOTAL	**35**
TOTAL	**85**

PATH OF TRAVEL NOTES

ACCESSIBLE PATH OF TRAVEL (P.O.T.):
THE ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WITH.

SURFACE IS STABLE, FIRM AND SLIP RESISTANT, CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.

ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80".

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE P.O.T. INDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR **PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.** AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS 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 INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

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:	LODI UNIFIED SCHOOL DISTRICT
Project Name/School:	DAVIS ELEMENTARY SCHOOL MODERNIZATION
Project Address:	5224 E MORADA LN, STOCKTON,CA 95212

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

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 Code of Regulations, Title 24, Part 9 (CFC) for the item(s) indicated above and waives the right to cite 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: Kelly Holmes Title: E.D.O.
Signature: Date: 9/24/25

LOCAL FIRE AUTHORITY (LFA) INFORMATION		
LFA Agency Name:	Waterloo Morada Fire District	
LFA Review Official:	Jason Culbertson	
Title:	Battalion Chief / Prevention Chief	Work Phone: (209) 931-3107
Work Email:	jculbertson@wmfire.org	

LFA Reviewer's Signature: Jason Culbertson Digitally signed by Jason Culbertson Date: 2025.09.30 13:22:24 -07'00' Date: 09/30/25

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION
DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT



This document is for plan review only

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG

REVISIONS

#	DESCRIPTION	DATE

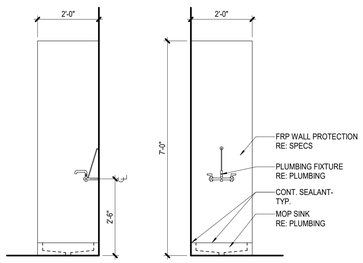
DSA SUBMISSION

SITE DATA & CODE REVIEW

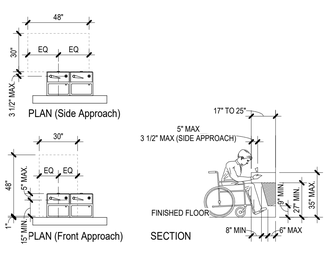
G0.02

1 SITE DATA & CODE REVIEW
SCALE: 1" = 40'-0"

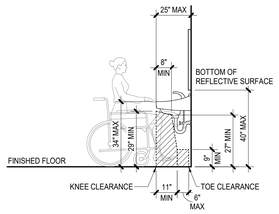
D:_RevitLocal\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/24/2026 12:58:47 PM



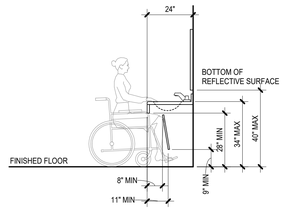
18 TYPICAL CUSTODIAL CLOSET
SCALE: 1/2" = 1'-0"



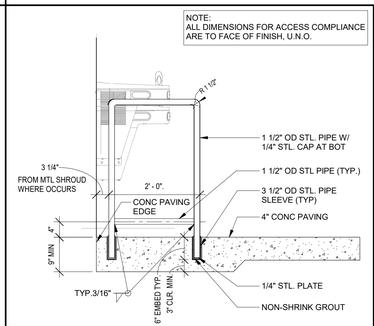
17 ACCESSIBLE DRINKING FOUNTAINS
SCALE: NOT TO SCALE



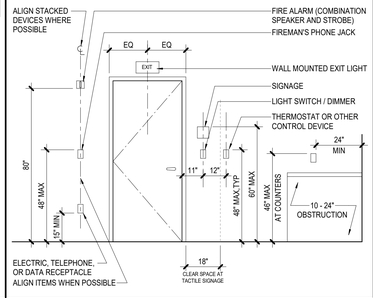
16 ACCESSIBLE LAVATORY
SCALE: NOT TO SCALE



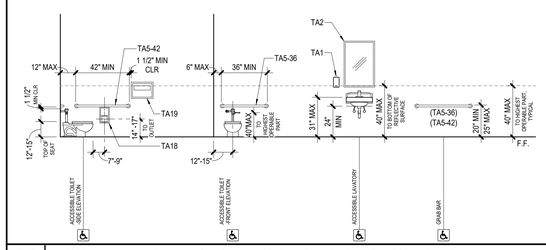
15 ACCESSIBLE VANITY
SCALE: NOT TO SCALE



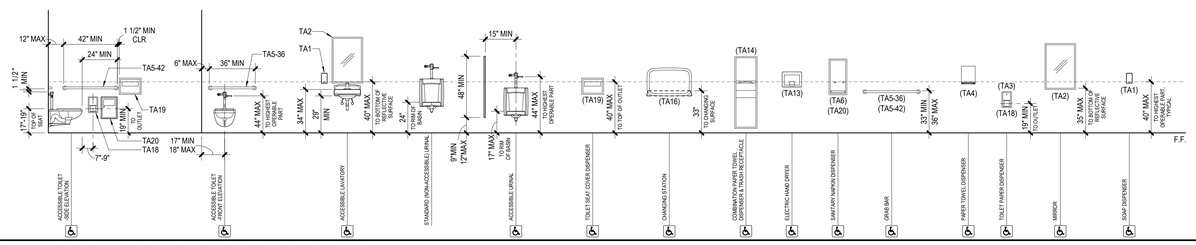
14 DRINKING FOUNTAIN GUARDRAIL
SCALE: 3/4" = 1'-0"



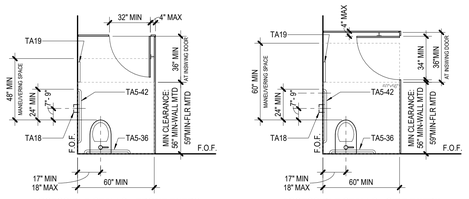
13 MISCELLANEOUS MOUNTING HEIGHTS
SCALE: NOT TO SCALE



12 ACCESSIBLE STANDARDS FOR PRE-K/KINDERGARTEN
SCALE: 1/4" = 1'-0"

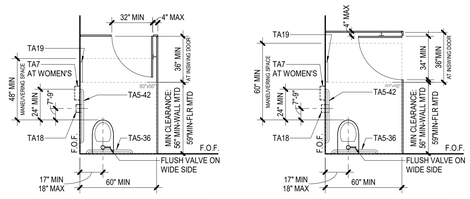


10 ACCESSIBLE STANDARDS FOR TOILET FACILITIES
SCALE: 1/4" = 1'-0"



NOTE:
DIMENSIONS FOR ACCESSIBLE STALLS REPRESENT THE MINIMUM REQUIREMENTS.
ACTUAL INSTALLATION DIMENSIONS ARE SHOWN ON THE ENLARGED PLANS

6 ACCESSIBLE STANDARDS FOR PRE-K/KINDERGARTEN
SCALE: 1/4" = 1'-0"



NOTES:
1. ALL DIMENSIONS TO FACE OF FINISHED SURFACE U.N.O.
2. DIMENSIONS FOR STANDARD STALLS SHALL BE USED ONLY WHERE NOT NOTED ON OTHER DRAWINGS
3. DIMENSIONS FOR ACCESSIBLE/AMBULATORY STALLS REPRESENT THE MINIMUM REQUIREMENTS. ACTUAL INSTALLATION DIMENSIONS ARE SHOWN ON THE ENLARGED PLANS

4 ACCESSIBLE STANDARDS FOR TOILET FACILITIES
SCALE: 1/4" = 1'-0"

LABEL	DESCRIPTION	REMARKS
TA1	SOAP DISPENSER	
TA2	MIRROR (24"x36" U.N.O.)	NOTE 5
TA3	TOILET PAPER DISPENSER	
TA4	PAPER TOWEL DISPENSER	
TA5	GRAB BARS AT TYPICAL ACCESSIBLE TOILET STALLS	
TA6	SANITARY NAPKIN DISPENSER	
TA7	SANITARY NAPKIN DISPOSAL	
TA8	MOP & BROOM HOLDER	
TA9	GRAB BARS AT ACCESSIBLE SHOWER	
TA10	FOLDING SHOWER BENCH	
TA11	CLOTHES HOOK	NOTE 6
TA12	SHOWER CURTAIN, ROD AND HOOKS	NOTE 6
TA13	ELECTRIC HAND DRYER	
TA14	COMBO PAPER TOWEL DISPENSER/TRASH RECEPTACLE	
TA15	GRAB BAR AT AMBULATORY ACCESSIBLE TOILET STALL	
TA16	CHANGING STATION	
TA17	TRASH RECEPTACLE	
TA18	TOILET PAPER DISPENSER, SEMI-RECESSED	
TA19	TOILET SEAT COVER DISPENSER	
TA20	SANITARY NAPKIN DISPOSAL, SEMI-RECESSED	

NOTES:
1. ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE.
2. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
4. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE. VERIFY ALL PATTERNS WITH ARCHITECT.
5. ALIGN MIRROR ON CENTER OF LAVATORY U.N.O.
6. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER, MOUNTED AT 48" MAX AFF

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

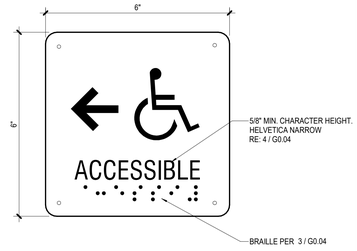
DSA SUBMISSION

ACCESSIBILITY GUIDELINES

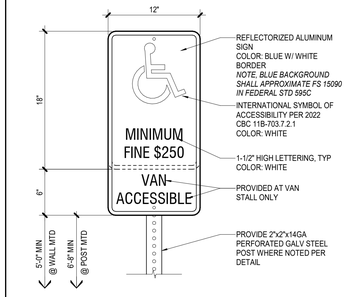
This document is for plan review only

G0.03

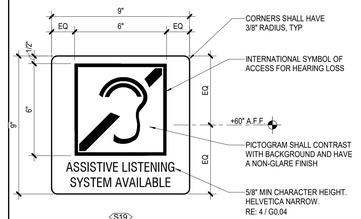
D:_Revit\Local\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/24/2026 12:58:49 PM



28 ACCESSIBLE ROUTE SIGN
SCALE: 6" = 1'-0"

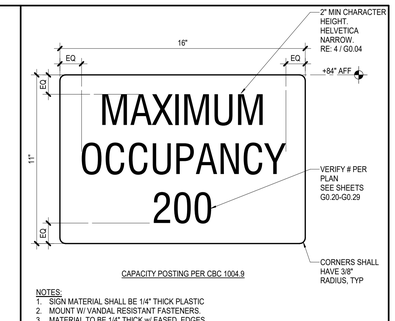


27 ACCESSIBLE PARKING SIGN
SCALE: 1 1/2" = 1'-0"



NOTES:
1. SIGN MATERIAL SHALL BE 1/4" THICK PLASTIC W/ 1/32" RAISED LETTERS
2. MOUNT W/ VANDAL RESISTANT FASTENERS

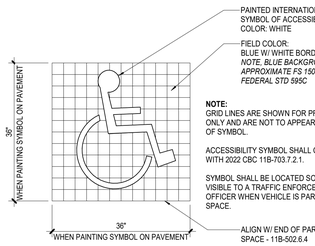
26 ASSISTIVE LISTENING SIGNAGE
SCALE: 3" = 1'-0"



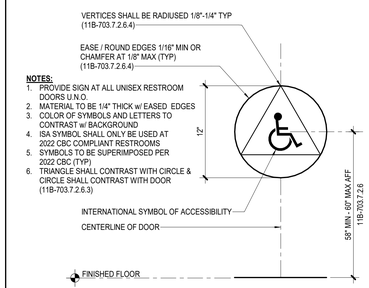
CAPACITY POSTING PER CBC 1004.9

NOTES:
1. SIGN MATERIAL SHALL BE 1/4" THICK PLASTIC
2. MOUNT W/ VANDAL RESISTANT FASTENERS.
3. MATERIAL TO BE 1/4" THICK w/ EASED EDGES
4. COLOR OF SYMBOLS AND LETTERS TO CONTRAST w/ BACKGROUND

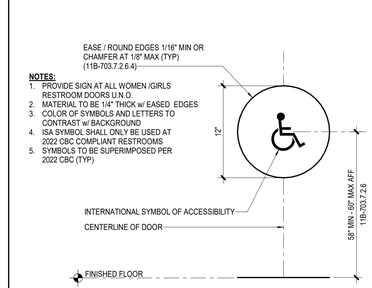
25 OCCUPANCY LOAD
SCALE: 3" = 1'-0"



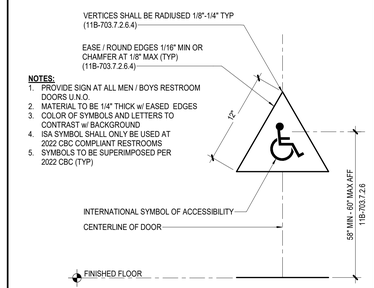
22 SYMBOL OF ACCESSIBILITY
SCALE: 3/4" = 1'-0"



21 RESTROOM DOOR SIGNAGE
SCALE: 1 1/2" = 1'-0"



20 WOMEN / GIRLS DOOR SIGNAGE
SCALE: 1 1/2" = 1'-0"



19 MEN / BOYS DOOR SIGNAGE
SCALE: 1 1/2" = 1'-0"

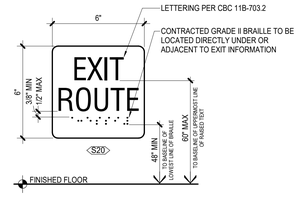
ACCESSIBLE BUILDING ENTRANCES:
IN EXISTING BUILDINGS AND FACILITIES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE PER CBC 11B-404:
1. ENTRANCES COMPLYING WITH CBC 11B-404 SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH CBC 11B-703.7.2.1.
2. DIRECTIONAL SIGNS COMPLYING WITH CBC 11B-703.5 THAT INDICATE THE LOCATION OF THE NEAREST ACCESSIBLE ENTRANCE SHALL BE PROVIDED AT ENTRANCES THAT DO NOT COMPLY WITH CBC 11B-404.

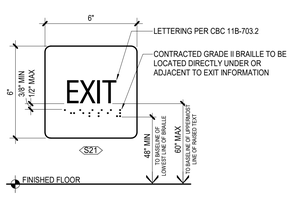
16 ACCESSIBLE BLDG ENTRY SIGNAGE
SCALE: 1/4" = 1'-0"

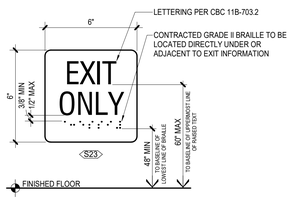
15 RESTROOM SIGN
SCALE: 3" = 1'-0"

14 WOMEN / GIRLS RESTROOM SIGN
SCALE: 3" = 1'-0"

13 MEN / BOYS RESTROOM SIGN
SCALE: 3" = 1'-0"

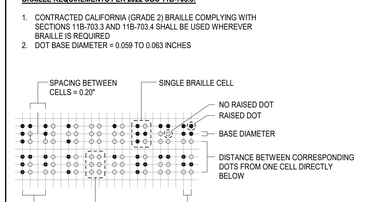




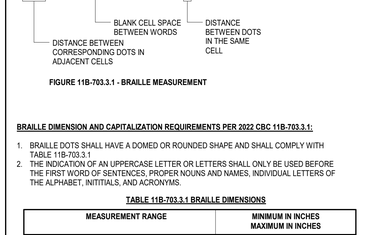


NOTES:
1. SIGN MATERIAL SHALL BE 1/4" THICK ACRYLIC PLASTIC WITH EASED EDGES AND 1/32" RAISED BORDER, GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS.
2. SEE FLOOR PLANS FOR LOCATION.
3. LOCATE SIGN PER DETAIL 2 / G0.04
4. COLOR OF LETTERS TO CONTRAST w/ BACKGROUND
5. SIGN COLOR TO CONTRAST w/ BACKGROUND COLOR OF WALL SURFACE
6. VERIFY ROOM NAME BEFORE FABRICATION
7. FASTENERS TO BE RECESSED FLUSH HEAD TAMPER-PROOF SCREWS (MIN 4)
8. EACH GRADE - LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY "EXIT"
9. EXIT DOORS LEADING TO EXIT BY MEANS OF AN EXIT ENCLOSURE, EXIT PASSAGEWAY, OR EXTERIOR BALCONY SHALL BE LABELED BY "EXIT ROUTE"
10. EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY "TO EXIT"
11. INCREASE SIZE OF SIGN TO ACCOMMODATE ADDITIONAL TEXT AS NEEDED.

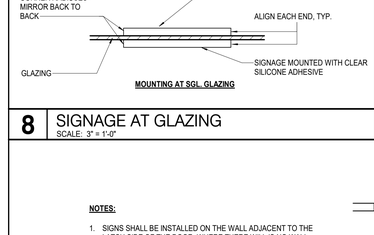
6 TACTILE EXIT SIGNAGE
SCALE: 3" = 1'-0"



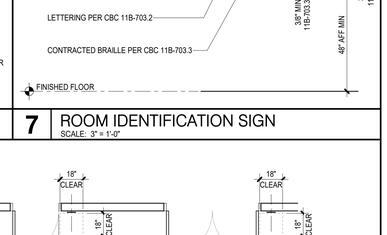
4 CHARACTER REQUIREMENTS
SCALE: 1" = 1'-0"



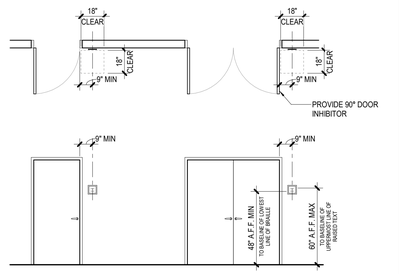
3 BRAILLE STANDARDS FOR SIGNAGE
SCALE: 6" = 1'-0"



8 SIGNAGE AT GLAZING
SCALE: 3" = 1'-0"



7 ROOM IDENTIFICATION SIGN
SCALE: 3" = 1'-0"



2 DOOR SIGNAGE LOCATIONS
SCALE: 1/4" = 1'-0"

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION
DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-33592
EXP. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

SIGNAGE

This document is for plan review only

G0.04

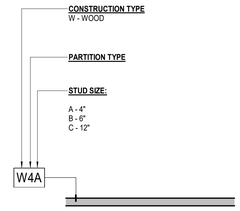
GENERAL NOTES

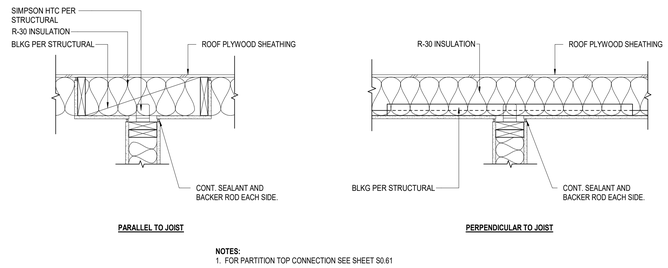
1. REFER TO FLOOR PLANS FOR REFERENCE MARKS INDICATING APPLICABLE PARTITION TYPES.
2. REFER TO BRACING DETAILS FOR SUPPORT OF THE TOP OF EACH PARTITION TYPE AND BRACING OF PARTITIONS THAT EXCEED LIMITING HEIGHT OF PARTITION TYPES.
3. REFER TO FINISH SCHEDULES FOR APPLIED FINISHES TO BOTH SIDES OF WALLS.
4. COORDINATE TOPS OF FINISHED WALLS WITH ADJACENT CEILING HEIGHTS PER SCHEDULES SECTIONS AND/OR DETAILS.
5. CONSULT ARCH. FOR ANY DISCREPANCIES OR QUESTIONS REGARDING PARTITIONS PRIOR TO INSTALLATION.

INTERIOR WOOD STUD PARTITION NOTES

1. PROVIDE CEMENT BACKER BOARDS FULL HEIGHT AT ALL PARTITIONS NOT ADJACENT TO PLUMBING FIXTURES, AND WITHOUT TILE OR EPOXY FINISHES IN ALL TOILET ROOMS.
2. RIGIDLY BRACE ALL DOOR FRAMES AT THE HEAD, HINGE, AND STRIKE SIDES, RIGIDLY BRACE ALL WINDOW FRAMES AT THE HEADS, JAMBS, AND SILLS.
3. LOCATE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AS FOLLOWS.
   A. PARTITIONS OR FURRING EXCEEDING 30'-0" SPANS HORIZONTAL OR VERTICAL.
   B. WHERE A PARTITION ABUTS A STRUCTURAL ELEMENT OR DISSIMILAR WALL
   C. AT CHANGES WITHIN PLANE OF PARTITION
   D. AT EXPANSION JOINTS
   E. AT BOTH JAMBS OF INTERIOR AND EXTERIOR DOOR FRAMES AND WINDOW FRAMES ABOVE AND BELOW FOR FULL HEIGHT OF WALL
4. FIRE-RATED PARTITIONS
   A. REFER TO THE UL FIRE RESISTANCE DIRECTORY OR IDENTIFIED CBC TABLES/SECTION FOR DETAILED DESCRIPTIONS OF FIRE-RATED PARTITIONS
   B. PROVIDE TYPE "X" FIRE RESISTIVE GYPSUM BOARD, 5/8" THICK U.N.O
   C. FILL ALL GAPS AND DECK VOIDS WITH CONT. FIRESAFING INSUL.
   D. SEAL BOTTOM OF PARTITION ON BOTH SIDES, PARTITION PERIMETER, AND ALL PENETRATIONS WITH CONT. FIRE-RATED SEALANT
   E. PENETRATIONS OF FIRE-RESISTIVE WALLS, FLOOR-CEILINGS AND ROOF CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTIONS 714.3 & 714.4
   F. WHEN WALLS AND CEILINGS ARE REQUIRED TO BE FIRE-RESISTIVE OR NONCOMBUSTIBLE, THE FINISH MATERIAL SHALL BE APPLIED DIRECTLY AGAINST SUCH FIRE-RESISTIVE OR NONCOMBUSTIBLE CONSTRUCTION OR TO FURRING STRIPS NOT EXCEEDING 1-3/4 INCHES. THE FURRING SPACE SHALL BE FILLED WITH INORGANIC OR CLASS A MATERIAL OR FIRE BLOCKED NOT TO EXCEED 8 FEET IN ANY DIRECTION.
5. PARTITIONS WITH SOUND ATTENUATION BATT INSUL. BLANKETS
   A. PROVIDE FULL THICK SOUND ATTENUATION BATT INSUL. BLANKETS FULL HEIGHT OF PARTITION U.N.O
   B. FILL ALL GAPS AND DECK VOIDS WITH CONT. SOUND ATTENUATION SAFING INSUL.
   C. TAPE AND BED OR CAULK ALL JOINTS BETWEEN GYPSUM BOARD PANELS
   D. SEAL BOTTOM OF PARTITION ON BOTH SIDES, PARTITION PERIMETER, AND ALL PENETRATIONS WITH CONT. ACOUSTICAL SEALANT (USE SEALANT INDICATED IN ITEM ABOVE, IN LIEU OF ACOUSTICAL SEALANT, AT PARTITIONS DESIGNATED AS FIRE-RATED PARTITIONS)

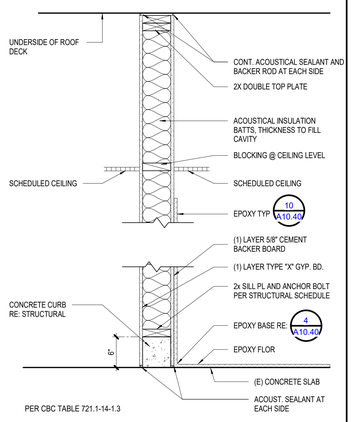
INTERIOR PARTITION TYPE SYMBOL





NOTES:
1. FOR PARTITION TOP CONNECTION SEE SHEET S0.61

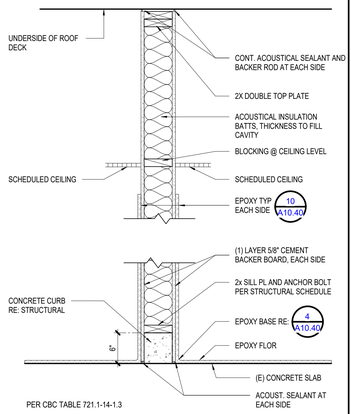
14 NON BEARING PARTITION DETAILS @ JOIST
SCALE: 1" = 1'-0"



TYPE	DESCRIPTION	STC RATING	FIRE RATING
W5B	2x6 WOOD STUD TO DECK @ 16" O.C., (1) LAYER REINFORCED BACKER BOARD, (1) LAYER TYPE "X" GB	NR	N/A

NOTE PER CBC 718.2.2 - BLOCKING IS REQUIRED AT CEILING LEVEL AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

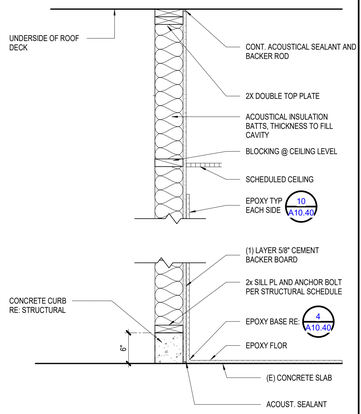
4 PARTITION TYPE W5
SCALE: 1" = 1'-0"



TYPE	DESCRIPTION	STC RATING	FIRE RATING
W4B	2x6 WOOD STUD TO DECK @ 16" O.C., (1) LAYER REINFORCED BACKER BOARD, EACH SIDE	NR	N/A

NOTE PER CBC 718.2.2 - BLOCKING IS REQUIRED AT CEILING LEVEL AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

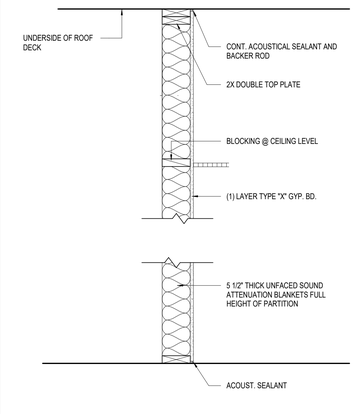
3 PARTITION TYPE W4
SCALE: 1" = 1'-0"



TYPE	DESCRIPTION	STC RATING	FIRE RATING
W3B	2x6 WOOD STUD TO DECK @ 16" O.C., (1) LAYER REINFORCED BACKER BOARD ON RESTROOM SIDE	NR	N/A

NOTE PER CBC 718.2.2 - BLOCKING IS REQUIRED AT CEILING LEVEL AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

2 PARTITION TYPE W3
SCALE: 1" = 1'-0"



TYPE	DESCRIPTION	STC RATING	FIRE RATING
W2A	2x4 WOOD STUD TO DECK @ 16" O.C., (1) LAYER TYPE "X" GB ON CLASSROOM SIDE	NR	N/A

NOTE PER CBC 718.2.2 - BLOCKING IS REQUIRED AT CEILING LEVEL AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

1 PARTITION TYPE W2
SCALE: 1" = 1'-0"

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION
DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32500
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

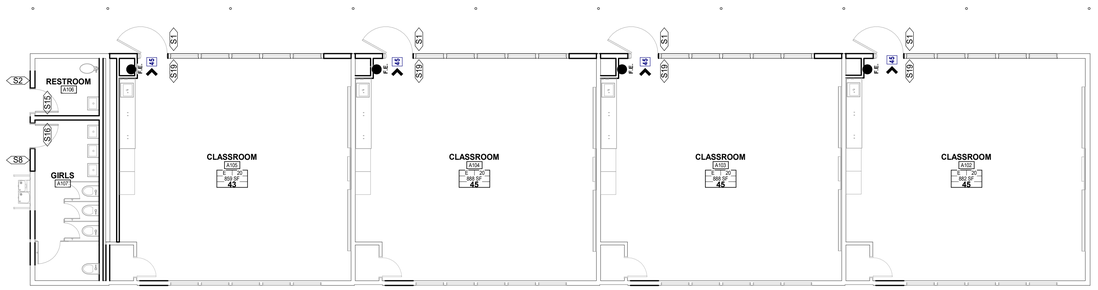
DSA SUBMISSION

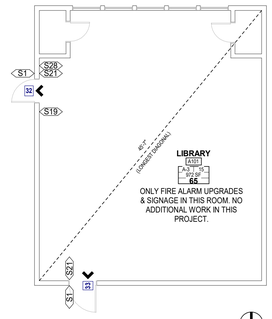
INTERIOR PARTITION TYPES

This document is for plan review only

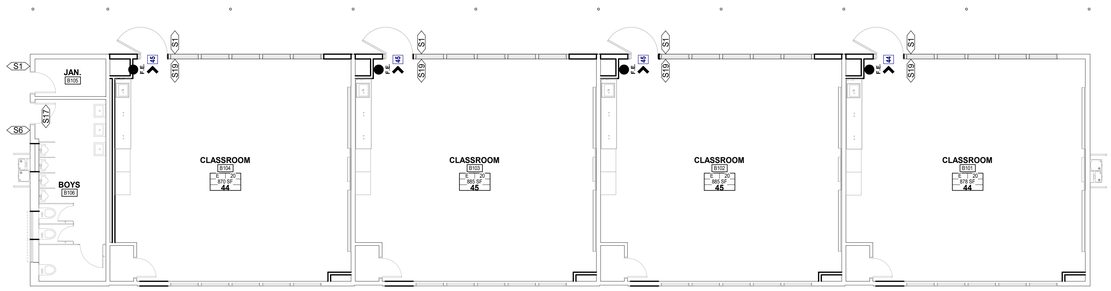
G0.05

G0.06 - BUILDING CODE REVIEW & SIGNAGE - BLDGS A,B,C,H,I

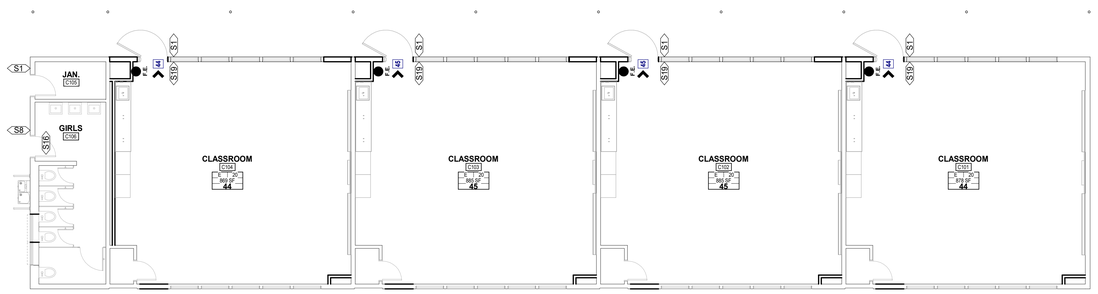




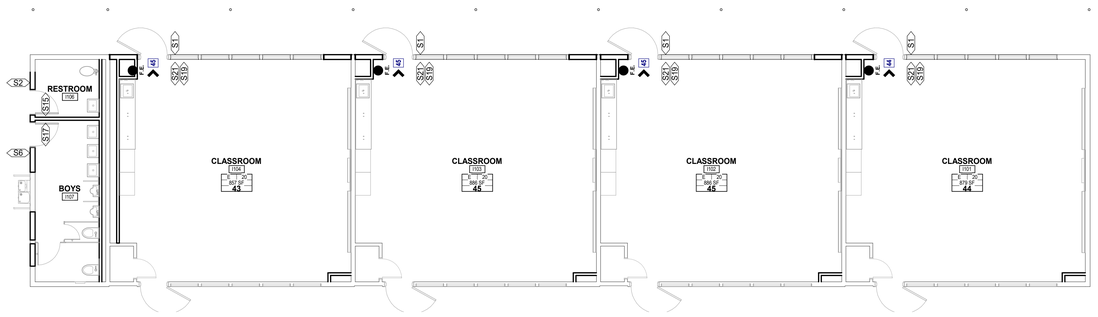
4 CODE ANALYSIS - EXISTING BUILDING A
SCALE: 1/8" = 1'-0"



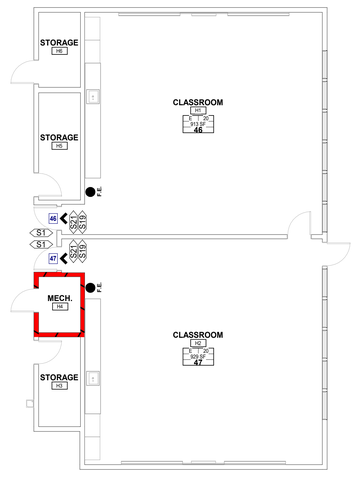
3 CODE ANALYSIS - EXISTING BUILDING B
SCALE: 1/8" = 1'-0"



2 CODE ANALYSIS - EXISTING BUILDING C
SCALE: 1/8" = 1'-0"



1 CODE ANALYSIS - EXISTING BUILDING I
SCALE: 1/8" = 1'-0"



5 CODE ANALYSIS - EXISTING BUILDING H
SCALE: 1/8" = 1'-0"

LIFE SAFETY SYMBOLS LEGEND

- COMMON PATH OF EGRESS TRAVEL DISTANCE / EXIT ACCESS TRAVEL DISTANCE
- EXIT ACCESS DOORWAY (# OF OCCUPANTS)
- EXIT (# OF OCCUPANTS)
- 1-HR FIRE RATED
- FIRE EXTINGUISHER
- Room name / 101 / 1 / 12.2 SF / 46 — ROOM NUMBER; ROOM OCCUPANCY | LOAD FACTOR; ROOM AREA; NUMBER OF OCCUPANTS

SIGNAGE LEGEND

S1	ROOM IDENTIFICATION SIGN	7 / G0.04
S2	GENDER NEUTRAL RESTROOM SIGN	15 / G0.04
S6	MENS/BOYS RESTROOM SIGN	13 / G0.04
S8	WOMENS/GIRLS RESTROOM SIGN	14 / G0.04
S15	GENDER NEUTRAL RR DOOR SIGNAGE	21 / G0.04
S16	WOMENS/GIRLS RR DOOR SIGNAGE	20 / G0.04
S17	MENS/BOYS RR DOOR SIGNAGE	19 / G0.05
S19	ASSISTIVE LISTENING DEVICE	26 / G0.04
S21	EXIT SIGN	6 / G0.04
S28	OCCUPANT LOAD SIGNAGE	25 / G0.04
S29	ACCESSIBLE BUILDING ENTRY SIGNAGE	16 / G0.04

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

G H J
D E F
A B C

KEY PLAN

PLAN NORTH / TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

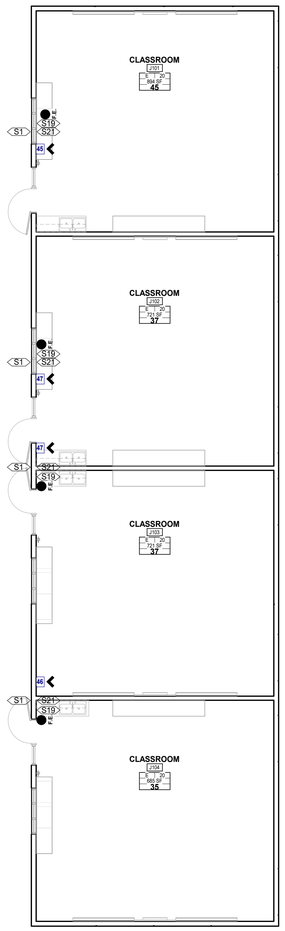
DSA SUBMISSION

BUILDING CODE REVIEW & SIGNAGE - BLDGS A,B,C,H,I

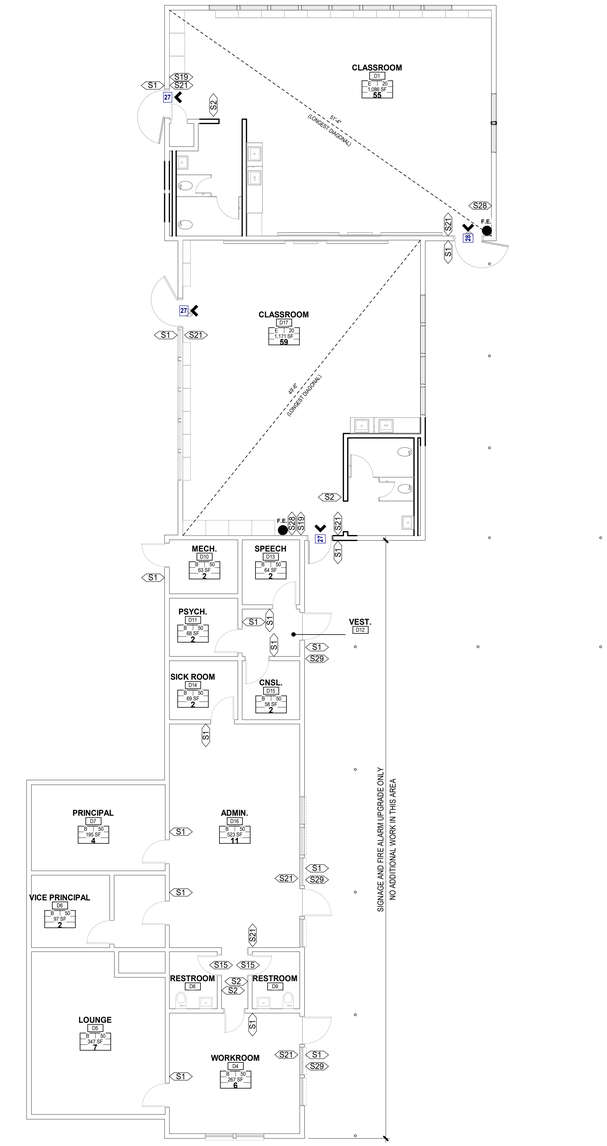
This document is for plan review only

G0.06

D:_Revit\Local\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/24/2026 12:58:57 PM



2 CODE ANALYSIS - BUILDING J
SCALE: 1/8" = 1'-0"



1 CODE ANALYSIS - EXISTING BUILDING D
SCALE: 1/8" = 1'-0"

LIFE SAFETY SYMBOLS LEGEND

- COMMON PATH OF EGRESS TRAVEL DISTANCE / EXIT ACCESS TRAVEL DISTANCE
- EXIT ACCESS DOORWAY (# OF OCCUPANTS)
- EXIT (# OF OCCUPANTS)
- 1-HR FIRE RATED
- FIRE EXTINGUISHER
- ROOM NUMBER
- ROOM OCCUPANCY | LOAD FACTOR
- ROOM AREA
- NUMBER OF OCCUPANTS

SIGNAGE LEGEND

S1	ROOM IDENTIFICATION SIGN	7 / G0.04
S2	GENDER NEUTRAL RESTROOM SIGN	15 / G0.04
S6	MENS/BOYS RESTROOM SIGN	13 / G0.04
S8	WOMENS/GIRLS RESTROOM SIGN	14 / G0.04
S15	GENDER NEUTRAL RR DOOR SIGNAGE	21 / G0.04
S16	WOMENS/GIRLS RR DOOR SIGNAGE	20 / G0.04
S17	MENS/BOYS RR DOOR SIGNAGE	19 / G0.05
S19	ASSISTIVE LISTENING DEVICE	26 / G0.04
S21	EXIT SIGN	6 / G0.04
S28	OCCUPANT LOAD SIGNAGE	25 / G0.04
S29	ACCESSIBLE BUILDING ENTRY SIGNAGE	16 / G0.04

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

G H J
D E F
A B C

KEY PLAN

PLAN NORTH / TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-32500
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

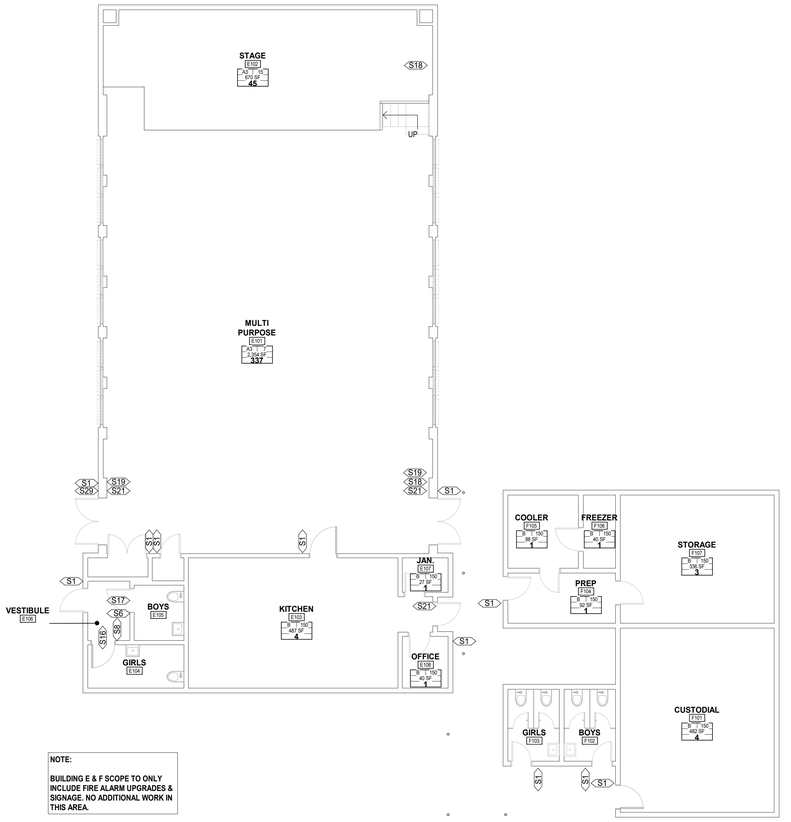
DSA SUBMISSION

BUILDING CODE REVIEW & SIGNAGE - BLDGS D & J

This document is for plan review only

G0.07

G0.08 - BUILDING CODE REVIEW & SIGNAGE - BLDGS E & F



NOTE:

BUILDING E & F SCOPE TO ONLY INCLUDE FIRE ALARM UPGRADES & SIGNAGE. NO ADDITIONAL WORK IN THIS AREA.

1 CODE ANALYSIS - EXISTING BUILDINGS E & F
SCALE: 1/8" = 1'-0"

LIFE SAFETY SYMBOLS LEGEND

- COMMON PATH OF EGRESS TRAVEL DISTANCE / EXIT ACCESS TRAVEL DISTANCE
- EXIT ACCESS DOORWAY (# OF OCCUPANTS)
- EXIT (# OF OCCUPANTS)
- 1-HR FIRE RATED
- F.E. FIRE EXTINGUISHER
- Room name: ROOM NUMBER; ROOM OCCUPANCY | LOAD FACTOR; ROOM AREA; NUMBER OF OCCUPANTS

SIGNAGE LEGEND

S1	ROOM IDENTIFICATION SIGN	7 / G0.04
S2	GENDER NEUTRAL RESTROOM SIGN	15 / G0.04
S6	MENS/BOYS RESTROOM SIGN	13 / G0.04
S8	WOMENS/GIRLS RESTROOM SIGN	14 / G0.04
S15	GENDER NEUTRAL RR DOOR SIGNAGE	21 / G0.04
S16	WOMENS/GIRLS RR DOOR SIGNAGE	20 / G0.04
S17	MENS/BOYS RR DOOR SIGNAGE	19 / G0.05
S19	ASSISTIVE LISTENING DEVICE	26 / G0.04
S21	EXIT SIGN	6 / G0.04
S28	OCCUPANT LOAD SIGNAGE	25 / G0.04
S29	ACCESSIBLE BUILDING ENTRY SIGNAGE	16 / G0.04

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

G H J
D E F
A B C

KEY PLAN — PLAN NORTH / TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

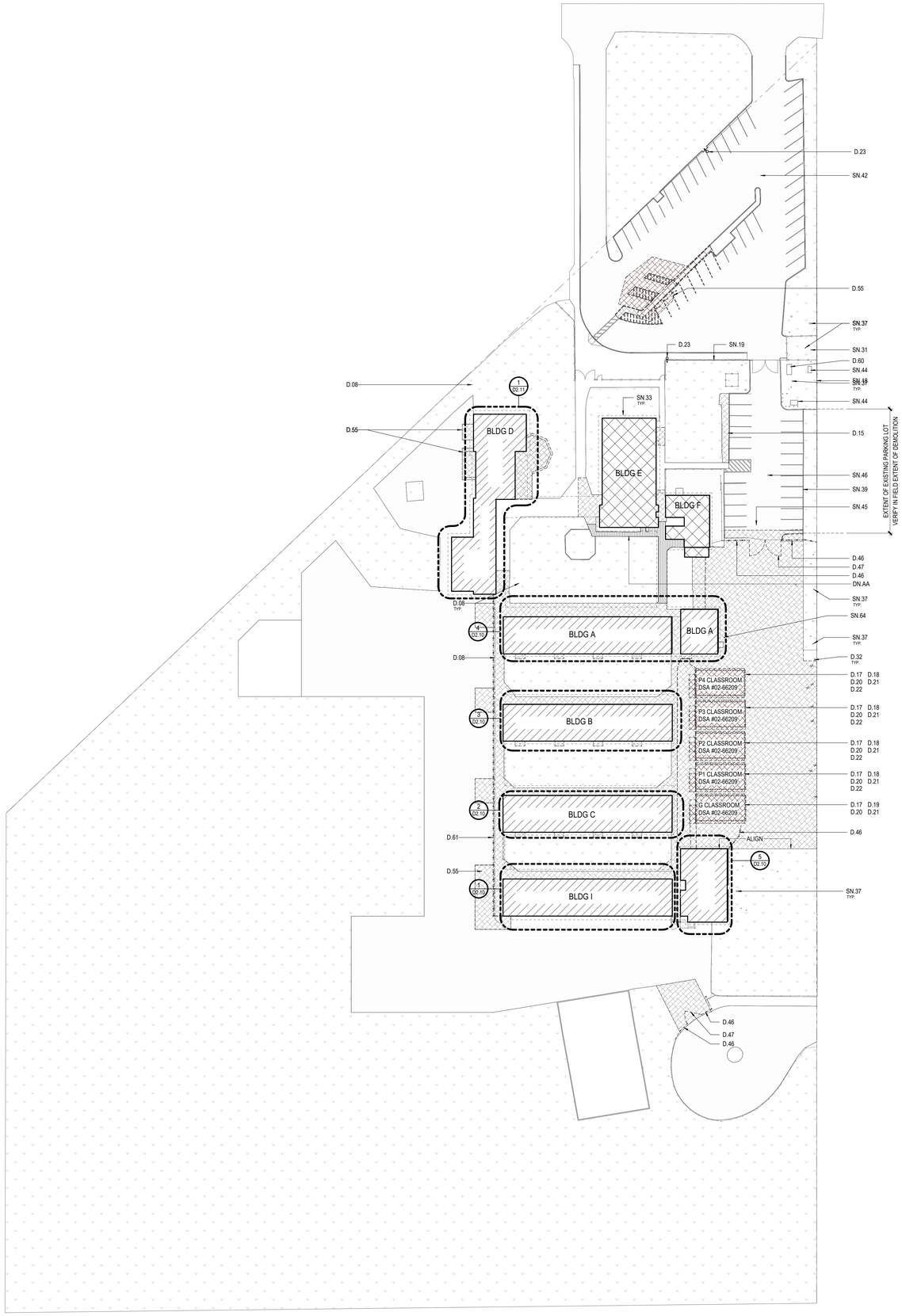
DSA SUBMISSION

BUILDING CODE REVIEW & SIGNAGE - BLDGS E & F

This document is for plan review only

G0.08

D:_Revit\Local\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/24/2026 12:59:02 PM



GENERAL NOTES

1. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR CLARIFICATION AND ADDITIONAL INFORMATION OF DEMOLITION SCOPE.
2. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
3. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
4. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
5. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
6. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.

DEMOLITION LEGEND

- (E) BUILDING IN SCOPE
- EXISTING ITEM TO DEMOLISHED
- (E) LANDSCAPE TO REMAIN
- (E) CONCRETE TO REMAIN
- (E) ASPHALT PAVING TO REMAIN

KEYNOTES - DEMOLITION

D.08	REMOVE (E) CONCRETE. HATCHED AREA TO SHOW EXTENTS OF DEMOLITION. SEE CIVIL DRAWINGS
D.15	REMOVE (E) CURB AND CONCRETE WALKWAY. SEE CIVIL DRAWINGS
D.17	REMOVE (E) DISCONNECT, CAP AND SEAL (E) CONDUITS AND OTHER SITE UTILITIES
D.18	REMOVE (E) PORTABLE. PORTABLE TO BE RELOCATED TO SCHOOL DISTRICT LAYDOWN YARD TO BE RELOCATED AT A LATER TIME PER A SEPARATE DSA APPLICATION
D.19	REMOVE (E) PORTABLE. TO BE DEMOLISHED ENTIRELY
D.20	REMOVE ALL (E) FOUNDATIONS, INCLUDING ANCHORS, SKIRTING, VENTING, ETC. FOR EACH STRUCTURE. ENGINEER FILL AT DISTURBED SOIL. REFER TO CIVIL FOR ADDITIONAL INFORMATION.
D.21	REMOVE (E) REMOVE RAMPS AND ALL HANDRAILS AT ALL REMOVED PORTABLE BUILDINGS
D.22	REMOVE (E) CLOSURE PANEL. SEE ELECTRICAL
D.23	REMOVE (E) REMOVE LIGHT POST
D.32	REMOVE (E) TREES. SEE CIVIL & LANDSCAPE DRAWINGS
D.46	REMOVE (E) CHAIN LINK FENCE
D.47	REMOVE (E) CHAIN LINK GATE
D.55	REMOVE (E) ASPHALT PAVING AND AGGREGATE BASE. SEE CIVIL DRAWINGS.
D.60	COORDINATE (E) ITEM REMOVAL AND (E) ITEMS TO REMAIN W/ ELEC DRAWINGS
D.61	REMOVE (E) CHAIN LINK FABRIC. CHAIN LINK POST AND CURB TO REMAIN.

SHEETNOTES

SN.18	EXISTING CHAIN LINK FENCE TO REMAIN. PROTECT IN PLACE
SN.19	EXISTING DECORATIVE FENCE TO REMAIN. PROTECT IN PLACE
SN.31	EXISTING TRASH ENCLOSURE TO REMAIN.
SN.33	EXISTING WALKWAY CANOPY TO REMAIN. ROOF OVERHANG ABOVE
SN.37	EXISTING TREE TO REMAIN. REFER TO CIVIL DRAWINGS
SN.39	EXISTING CURB TO REMAIN
SN.42	EXISTING PARKING LOT.
SN.44	EXISTING TRANSFORMER TO REMAIN. SEE ELECTRICAL DRAWINGS
SN.45	EXTENT OF DEMOLITION
SN.46	EXISTING PARKING LOT STRIPING AND ASPHALT TO REMAIN
SN.64	EXISTING ELEC EQUIPMENT CONCRETE PAD TO REMAIN

ADD ALTERNATE NOTES & LEGEND

DN.AA	ADD ALTERNATE FOR ADDITIONAL DEMOLITION OF (E) CONCRETE WALKWAY

ADD ALTERNATE, EXISTING ITEM TO BE DEMOLISHED

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

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-33550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

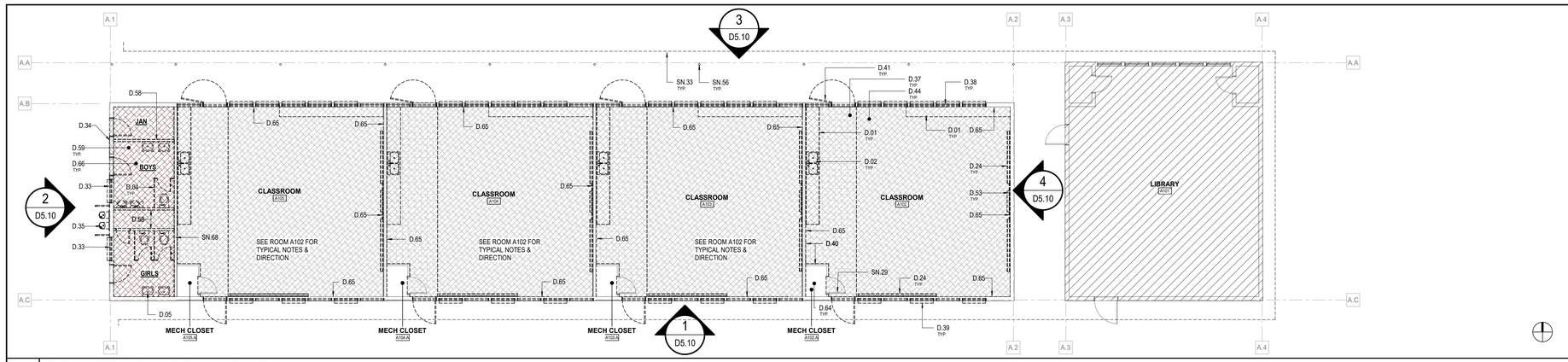
#	DESCRIPTION	DATE

DSA SUBMISSION

DEMOLITION SITE PLAN

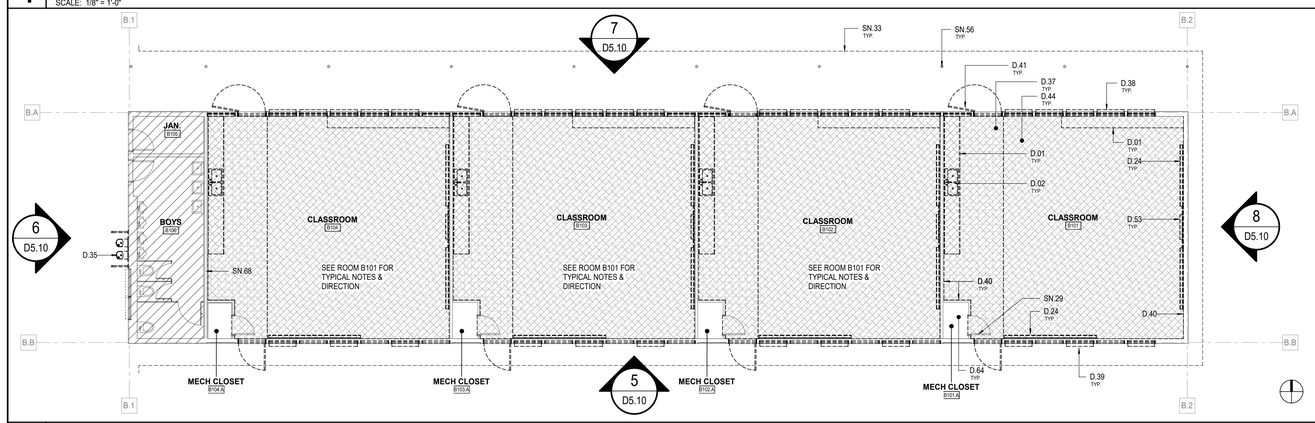
This document is for plan review only

D1.01



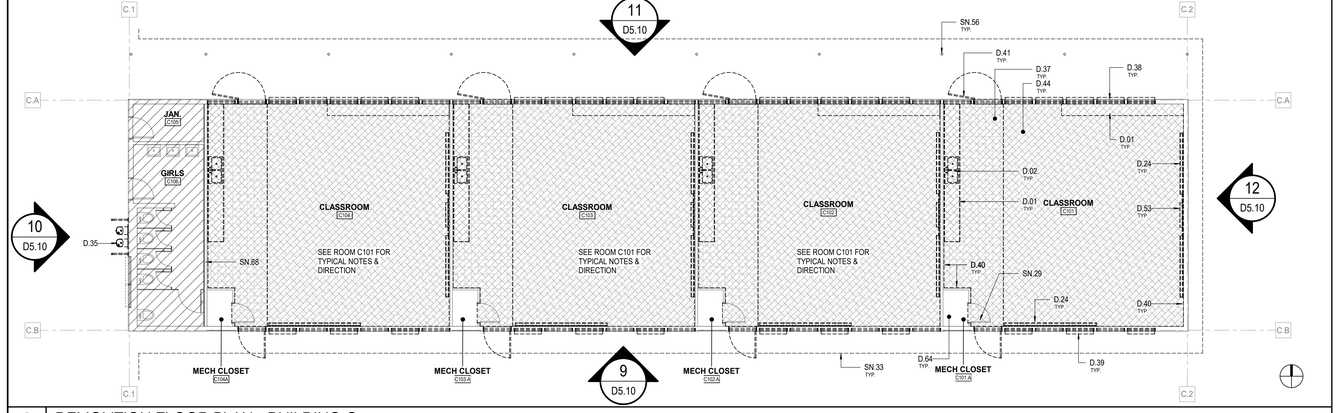
4 DEMOLITION FLOOR PLAN - BUILDING A

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



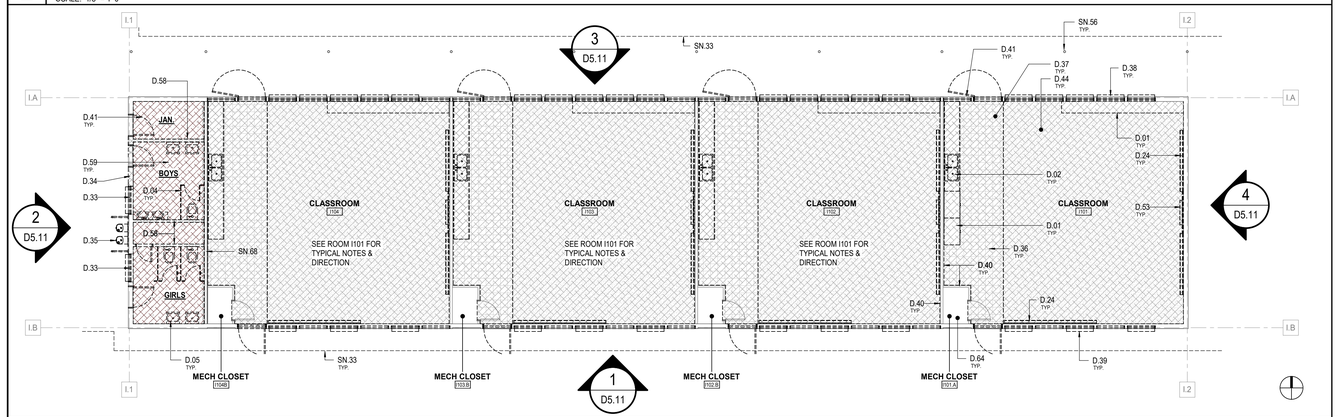
3 DEMOLITION FLOOR PLAN - BUILDING B

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



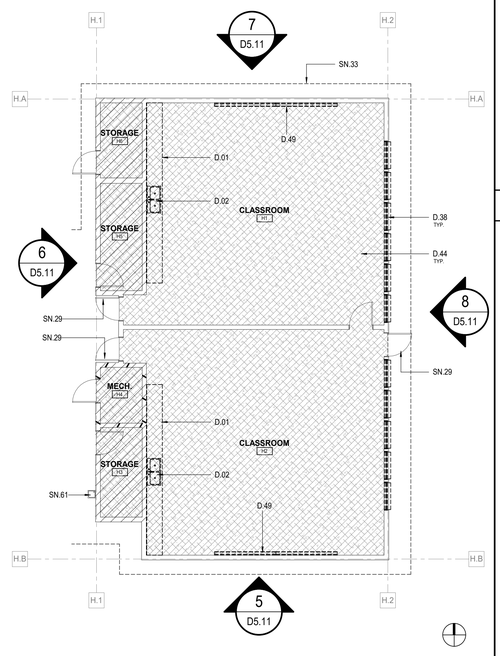
2 DEMOLITION FLOOR PLAN - BUILDING C

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



1 DEMOLITION FLOOR PLAN - BUILDING I

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



5 DEMOLITION FLOOR PLAN - BUILDING H

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

GENERAL NOTES

1. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR CLARIFICATION AND ADDITIONAL INFORMATION OF DEMOLITION SCOPE.
2. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
3. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
4. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
5. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
6. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.

DEMOLITION LEGEND

- EXISTING ITEM TO DEMOLISHED, DEMOLISH WALLS DOWN TO STUDS, WHERE THERE IS PLYWOOD SHEATHING - THIS IS TO REMAIN
- NOT IN CONTRACT
- EXISTING WALL & FINISHES TO REMAIN
- EXISTING WALL, CURB WHERE OCCURS, & FINISHES TO BE DEMOLISHED
- (E) FINISH, WHERE OCCURS / (E) FRAMING — EXISTING WALL FINISH TO BE DEMOLISHED, EXISTING FRAMING TO REMAIN
- EXISTING DOOR FRAME,TRIM TO BE DEMOLISHED
- EXISTING WINDOW FRAME, TRIM TO BE DEMOLISHED

DEMOLITION NOTES

D.01	REMOVE (E) CASEWORK
D.02	REMOVE (E) SINK INCLUDING FIXTURES
D.04	REMOVE (E) TOILET PARTITIONS AND TOILET ACCESSORIES
D.05	REMOVE (E) PLUMBING FIXTURES
D.24	REMOVE (E) MARKERBOARD
D.33	REMOVE (E) WINDOW AND TRIM. FRAMING POST TO REMAIN.
D.34	REMOVE (E) WALL AND CONCRETE CURB WHERE IT OCCURS.
D.35	REMOVE (E) DRINKING FOUNTAIN AND RAILS
D.36	REMOVE (E) ACM VINYL TILE
D.37	REMOVE (E) ACM LINOLEUM FLOORING
D.38	REMOVE (E) ACM TRANSITE PANEL AND WOOD WINDOW
D.39	REMOVE (E) WOOD CLERESTORY WINDOW AND TRIM. FRAMING POST TO REMAIN.
D.40	REMOVE (E) ACM GYP BD AND TEXTURE. DO NOT DAMAGE (E) FRAMING AND PLYWOOD SHEATHING.
D.41	REMOVE (E) DOOR, DOOR FRAME, TRIM, & THRESHOLD
D.44	REMOVE (E) CARPET
D.49	REMOVE (E) WHITEBOARD
D.53	REMOVE (E) SMARTBOARD & PROJECTOR
D.58	REMOVE (E) PARTITION AND CONCRETE CURB. CUT ALL VERTICAL CURB REINFORCMENT TO 1" BELOW FINISH FLOOR. GRIND CONCRETE SURFACE SMOOTH AND LEVEL WITH ADJACENT SLAB ELEVATION. SEAL AND PREP SURFACE FOR NEW FINISH
D.59	REMOVE (E) FLOOR FINISH. SEAL AND PREP SURFACE FOR NEW FINISH
D.64	GC TO VERIFY WITH ARCHITECT THE EXTENT OF FINISH DEMO IN MECHANICAL CLOSET PRIOR TO WORK START.
D.65	REMOVE EXISTING FINISHES DOWN TO 1/2" PLYWOOD SHEATHING (TO REMAIN) AND PREP FOR REPLACEMENT. DO NOT DAMAGE (E) FRAMING.
D.66	EXISTING CONCRETE SLAB TO REMAIN. WHERE IT OCCURS, CONCRETE INFILL LOCATIONS WHERE FLOOR PENETRATIONS AND OTHER OPENINGS OCCUR FROM DEMOLITION.

SHEETNOTES

SN.29	EXISTING DOOR AND FRAME TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT.
SN.33	EXISTING WALKWAY CANOPY TO REMAIN, ROOF OVERHANG ABOVE
SN.56	EXISTING STL COLUMN TO REMAIN
SN.61	EXISTING DRINKING FOUNTAIN TO REMAIN
SN.68	EXISTING WALL, CONCRETE CURB, AND SHEATING TO REMAIN. AT BLDGS A & I, REMOVE FINISH AT BATHROOM SIDE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

Not for permitting or construction

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

G H J
D E F
A B C

KEY PLAN — PLAN NORTH / TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-33582
EXP. 03-31-2027
STATE OF CALIFORNIA

CLIENT: LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER: 230217
DATE: 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG

REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

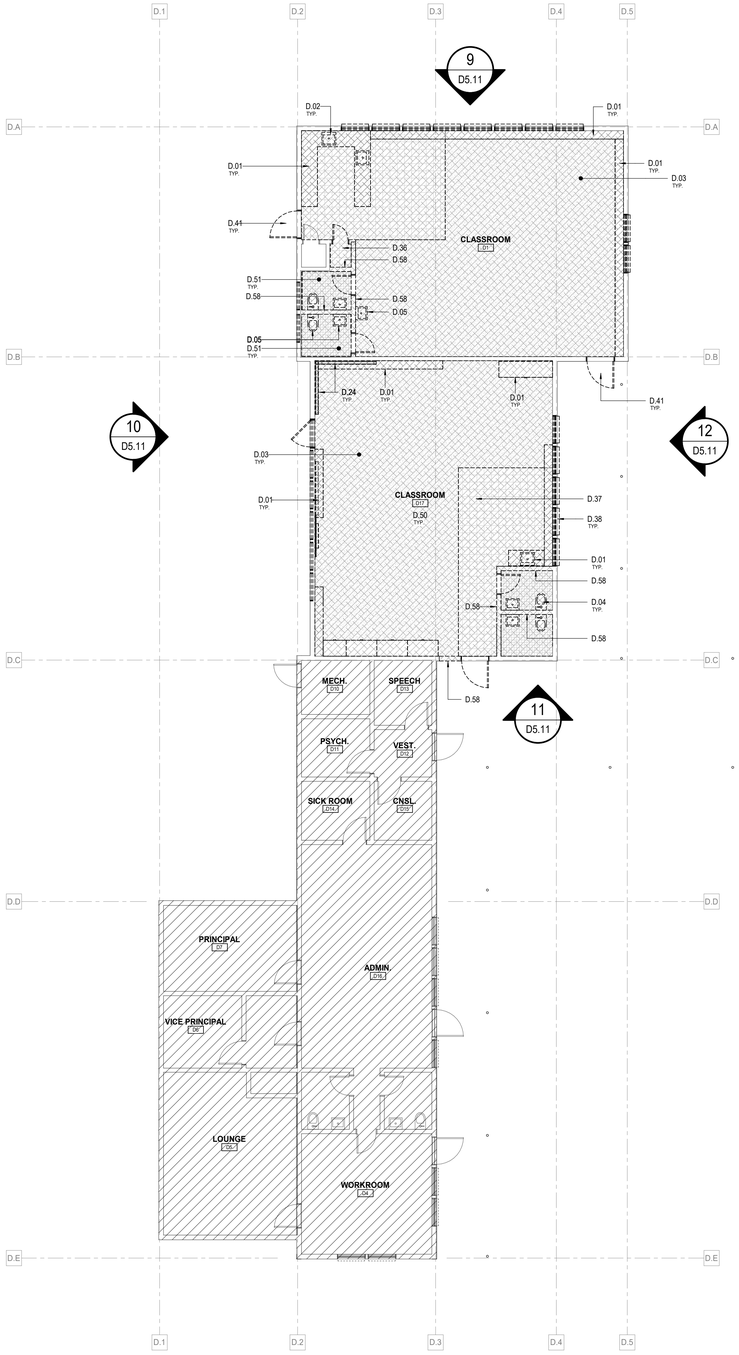
DEMOLITION FLOOR PLANS - BLDGS A,B,C,H,I

This document is for plan review only

D2.10

D2.10 - DEMOLITION FLOOR PLANS - BLDGS A,B,C,H,I

D:_RevitLocal\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/24/2026 12:58:16 PM



1 DEMOLITION FLOOR PLAN - BUILDING D
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR CLARIFICATION AND ADDITIONAL INFORMATION OF DEMOLITION SCOPE.
2. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
3. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
4. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
5. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
6. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.

DEMOLITION LEGEND

- EXISTING ITEM TO DEMOLISHED, DEMOLISH WALLS DOWN TO STUDS, WHERE THERE IS PLYWOOD SHEATHING - THIS IS TO REMAIN
- NOT IN CONTRACT
- EXISTING WALL & FINISHES TO REMAIN
- EXISTING WALL, CURB WHERE OCCURS, & FINISHES TO BE DEMOLISHED
- (E) FINISH, WHERE OCCURS / (E) FRAMING — EXISTING WALL FINISH TO BE DEMOLISHED, EXISTING FRAMING TO REMAIN
- EXISTING DOOR FRAME,TRIM TO BE DEMOLISHED
- EXISTING WINDOW FRAME, TRIM TO BE DEMOLISHED

DEMOLITION NOTES

D.01	REMOVE (E) CASEWORK
D.02	REMOVE (E) SINK INCLUDING FIXTURES
D.03	REMOVE (E) CARPET
D.04	REMOVE (E) TOILET PARTITIONS AND TOILET ACCESSORIES
D.05	REMOVE (E) PLUMBING FIXTURES
D.24	REMOVE (E) MARKERBOARD
D.36	REMOVE (E) ACM VINYL TILE
D.37	REMOVE (E) ACM LINOLEUM FLOORING
D.38	REMOVE (E) ACM TRANSITE PANEL AND WOOD WINDOW
D.41	REMOVE (E) DOOR, DOOR FRAME, TRIM, & THRESHOLD
D.50	REMOVE (E) BASE
D.51	REMOVE (E) CERAMIC FLOOR TILE AND WALL TILE
D.58	REMOVE (E) PARTITION AND CONCRETE CURB. CUT ALL VERTICAL CURB REINFORCMENT TO 1" BELOW FINISH FLOOR. GRIND CONCRETE SURFACE SMOOTH AND LEVEL WITH ADJACENT SLAB ELEVATION. SEAL AND PREP SURFACE FOR NEW FINISH

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

G	H	J	
D	E	F	
A	B	C	

KEY PLAN

PLAN NORTH / TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
230217

DATE 08/22/2025

DRAWN BY: MG / ED CHKED BY: MG

REVISIONS

#	DESCRIPTION	DATE

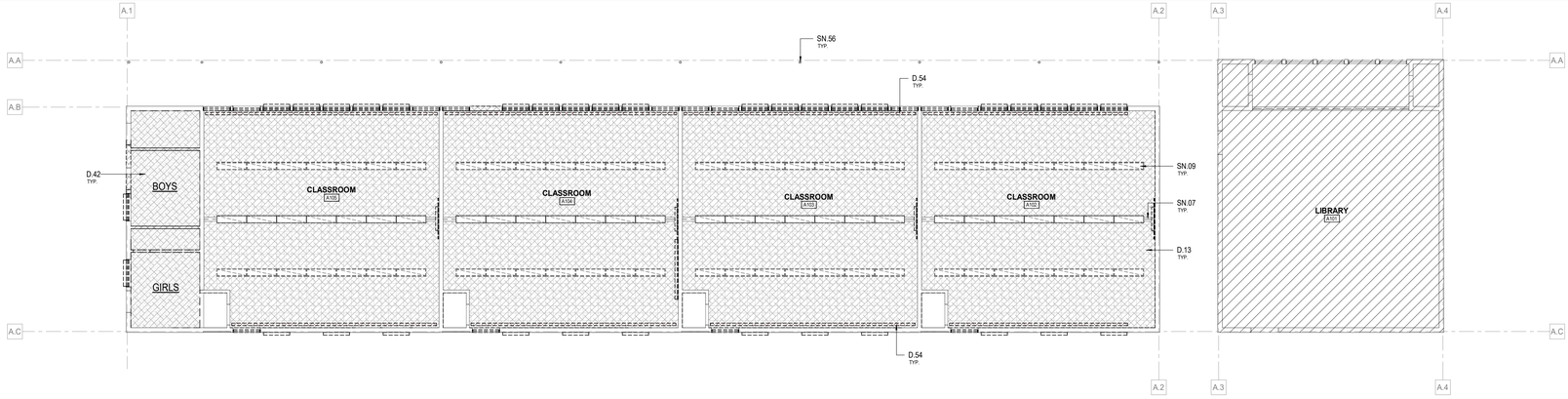
DSA SUBMISSION

DEMOLITION FLOOR PLANS - BLDG D

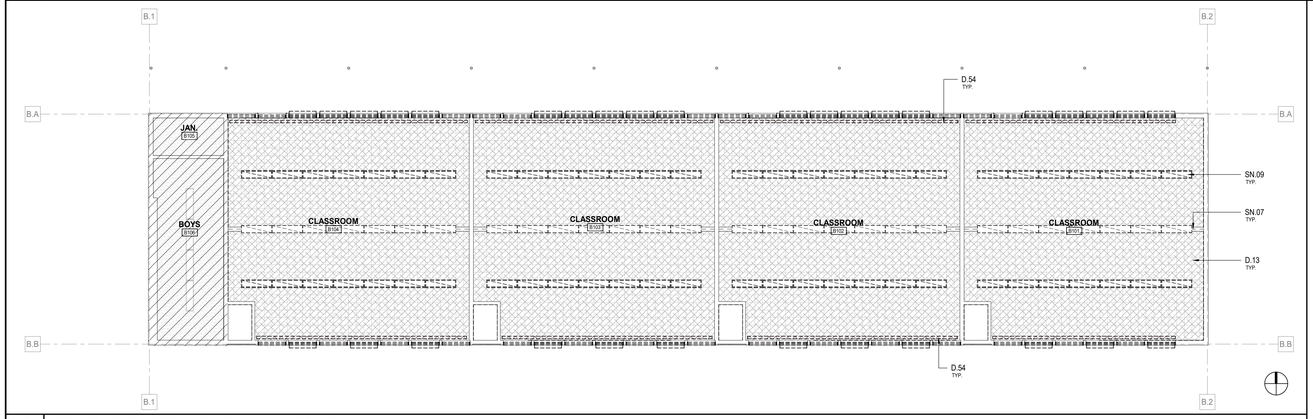
This document is for plan review only

D2.11

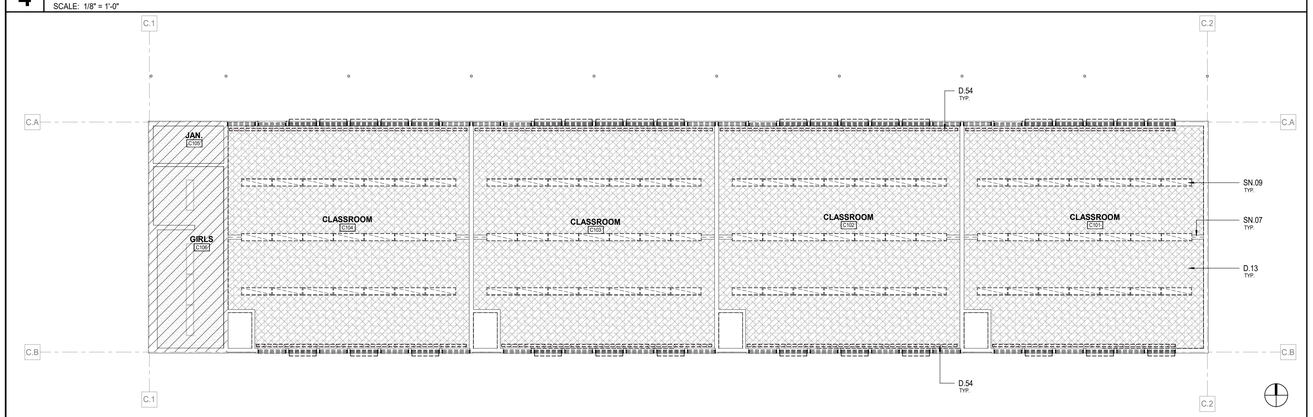
D3.10 - DEMOLITION REFLECTED CEILING PLANS - BLDGS A,B,C,D,I,H



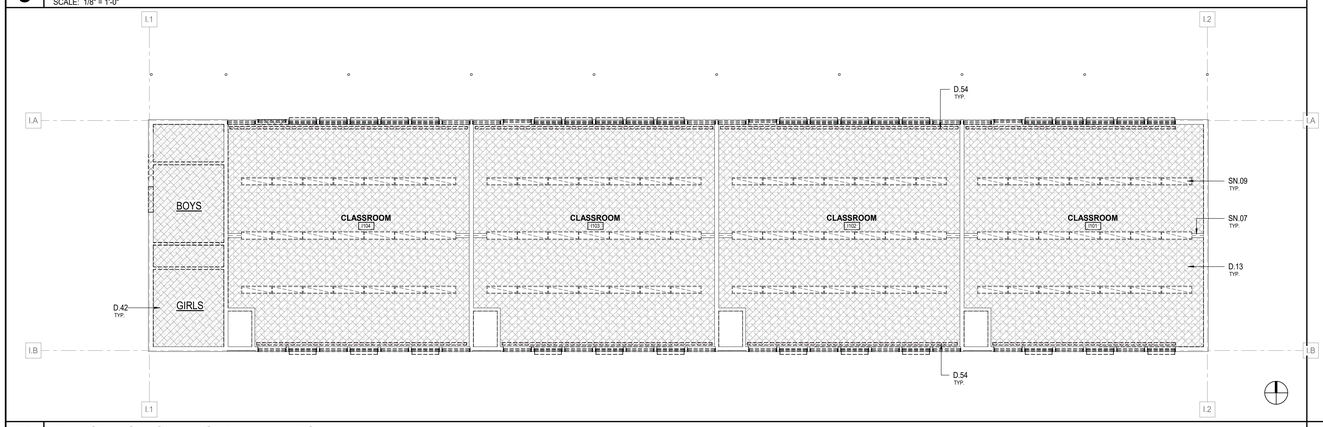
5 DEMOLITION CEILING PLAN - BLDG. A
SCALE: 1/8" = 1'-0"



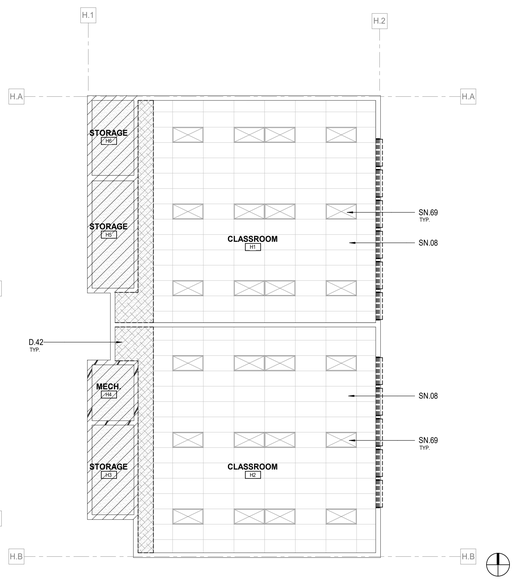
4 DEMOLITION CEILING PLAN - BLDG. B
SCALE: 1/8" = 1'-0"



3 DEMOLITION CEILING PLAN - BLDG. C
SCALE: 1/8" = 1'-0"



2 DEMOLITION CEILING PLAN - BLDG. I
SCALE: 1/8" = 1'-0"



1 DEMOLITION CEILING PLAN - BLDG. H
SCALE: 1/8" = 1'-0"

DEMOLITION RCP LEGEND

NOT IN CONTRACT

DEMOLISH EXISTING GYPSUM WALLBOARD CEILING AND FRAMING

DEMOLISH EXISTING GLUE ON CEILING TILE AND GYPSUM BOARD, FRAMING TO REMAIN

DEMOLITION NOTES

D.13	REMOVE (E) CEILING TILES & SUBSTRATE UP TO FRAMING
D.42	REMOVE (E) GYP.BD CEILING AND CEILING FRAMING
D.54	REMOVE (E) WINDOW BLINDS

SHEETNOTES

SN.07	EXISTING EXPOSED STEEL STRUCTURE. PREP FOR NEW PAINT.
SN.08	EXISTING LAY-IN 2X4 CEILING TILE TO REMAIN
SN.09	EXISTING LIGHTS TO REMAIN. REMOVE DURING DEMO AND RE-INSTALL
SN.56	EXISTING STL COLUMN TO REMAIN
SN.69	EXISTING 2X4 LIGHT FIXTURE TO REMAIN

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

G H J
D E F
A B C

KEY PLAN

PLAN NORTH
TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2022
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

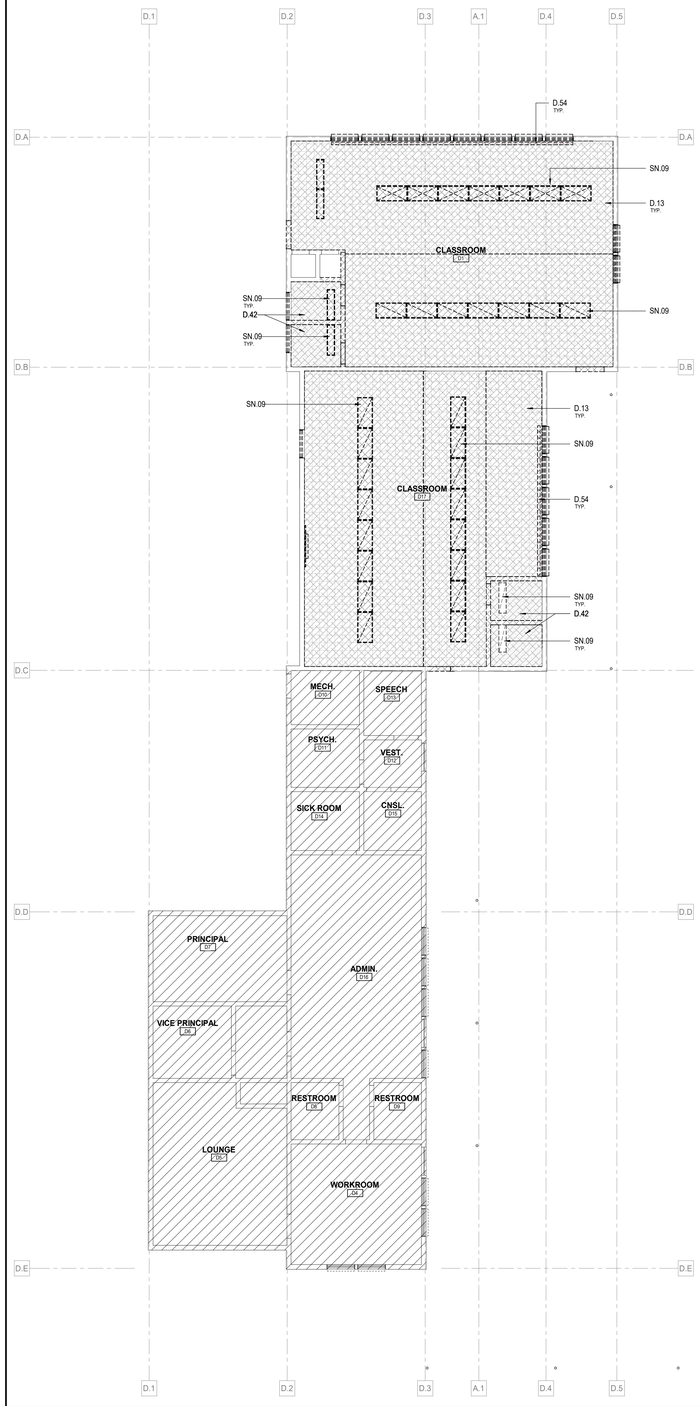
This document is for plan review only

DEMOLITION REFLECTED CEILING PLANS - BLDGS A,B,C,D,I,H

D3.10

D:_RevitLocal\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/24/2026 12:58:22 PM

D3.11 - DEMOLITION REFLECTED CEILING PLANS - BLDGS D,E,F



1 DEMOLITION CEILING PLAN - EXISTING BUILDING D
SCALE: 1/8" = 1'-0"

DEMOLITION RCP LEGEND

NOT IN CONTRACT

DEMOLISH EXISTING GYPSUM WALLBOARD CEILING AND FRAMING

DEMOLISH EXISTING GLUE ON CEILING TILE AND GYPSUM BOARD, FRAMING TO REMAIN

DEMOLITION NOTES

D.13	REMOVE (E) CEILING TILES & SUBSTRATE UP TO FRAMING
D.42	REMOVE (E) GYP.BD CEILING AND CEILING FRAMING
D.54	REMOVE (E) WINDOW BLINDS

SHEETNOTES

SN.09	EXISTING LIGHTS TO REMAIN. REMOVE DURING DEMO AND RE-INSTALL

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

G H J
D E F
A B C

KEY PLAN

PLAN NORTH
TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
EXP. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

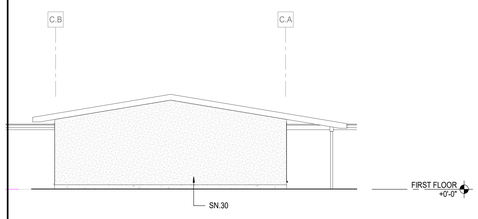
DSA SUBMISSION

DEMOLITION REFLECTED CEILING PLANS - BLDGS D,E,F

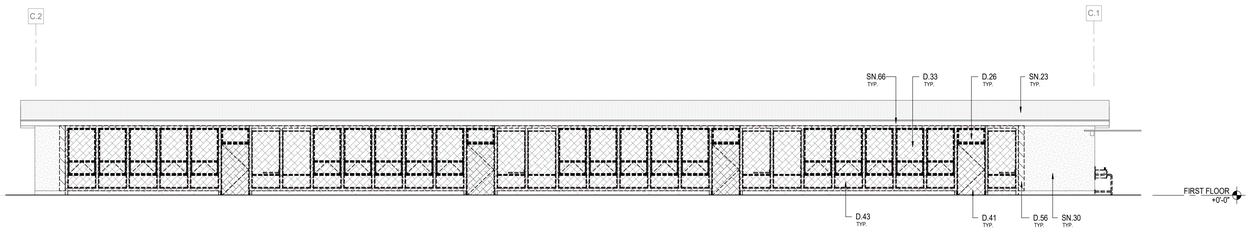
D3.11

This document is for plan review only

D:_Revit.local\230217_LUSD Davis ES Mod_A21_Brie Gargano.rvt
3/24/2026 12:58:24 PM



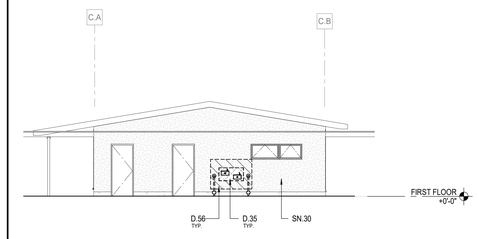
12 DEMO ELEVATION - EXISTING BUILDING C (EAST)
SCALE: 1/8" = 1'-0"



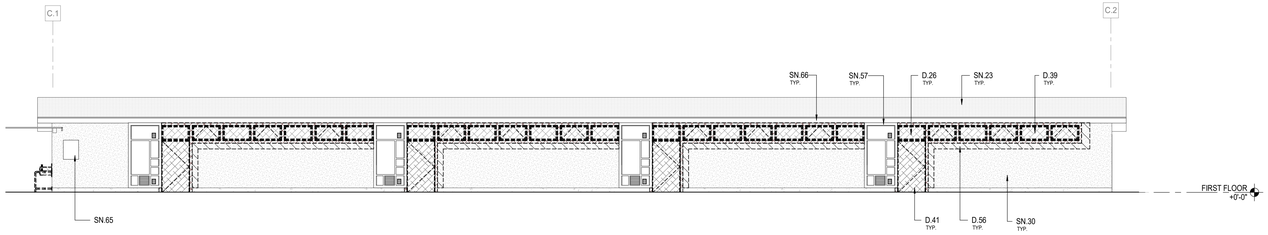
11 DEMO ELEVATION - EXISTING BUILDING C (NORTH)
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR CLARIFICATION AND ADDITIONAL INFORMATION OF DEMOLITION SCOPE.
2. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
3. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
4. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
5. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
6. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.



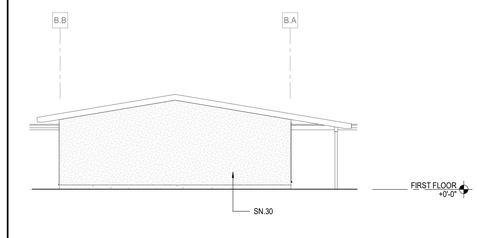
10 DEMO ELEVATION - EXISTING BUILDING C (WEST)
SCALE: 1/8" = 1'-0"



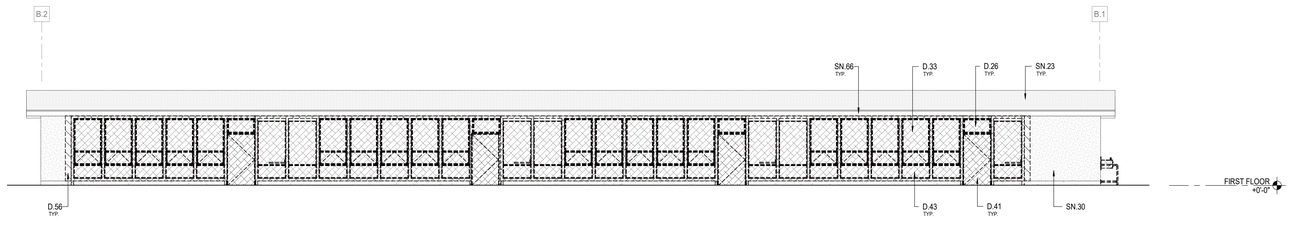
9 DEMO ELEVATION - EXISTING BUILDING C (SOUTH)
SCALE: 1/8" = 1'-0"

DEMOLITION KEYNOTES

D.26	REMOVE (E) TRANSOM WINDOW AND TRIM
D.33	REMOVE (E) WINDOW AND TRIM. FRAMING POST TO REMAIN.
D.34	REMOVE (E) WALL AND CONCRETE CURB WHERE IT OCCURS.
D.35	REMOVE (E) DRINKING FOUNTAIN AND RAILS
D.39	REMOVE (E) WOOD CLERESTORY WINDOW AND TRIM. FRAMING POST TO REMAIN.
D.41	REMOVE (E) DOOR, DOOR FRAME, TRIM, & THRESHOLD
D.43	REMOVE (E) TRANSITE PANEL, FRAME, AND TRIM
D.56	LIMITS OF (E) PLASTER REMOVAL
SN.23	EXISTING ROOF TO REMAIN
SN.29	EXISTING DOOR AND FRAME TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT.
SN.30	EXISTING PLASTER TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT EP-1
SN.56	EXISTING STL COLUMN TO REMAIN
SN.57	EXISTING TRIM TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT.
SN.65	EXISTING ELEC EQUIPMENT. SEE ELEC DWGS
SN.66	EXISTING ROOF CANOPY BLOCKING TO REMAIN. PROTECT, REPAIR AS NECESSARY AND PREP FOR NEW PAINT.



8 DEMO ELEVATION - EXISTING BUILDING B (EAST)
SCALE: 1/8" = 1'-0"

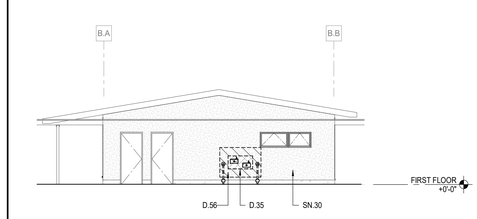


7 DEMO ELEVATION - EXISTING BUILDING B (NORTH)
SCALE: 1/8" = 1'-0"

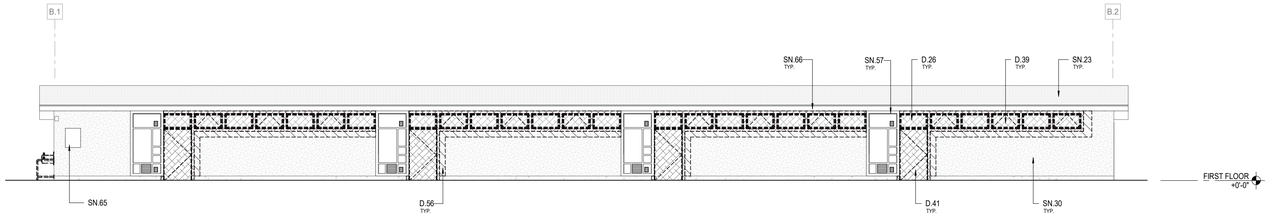
DEMOLITION LEGEND

EXISTING ITEM TO DEMOLISHED

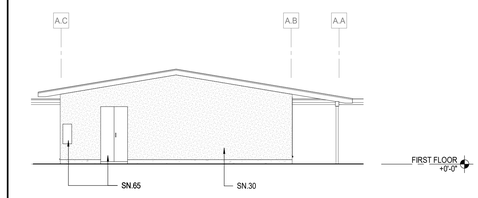
EXISTING PLASTER TO BE REMOVED



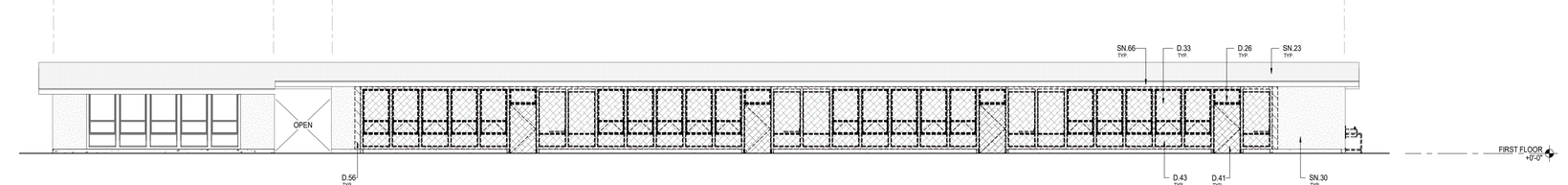
6 DEMO ELEVATION - BUILDING B (WEST)
SCALE: 1/8" = 1'-0"



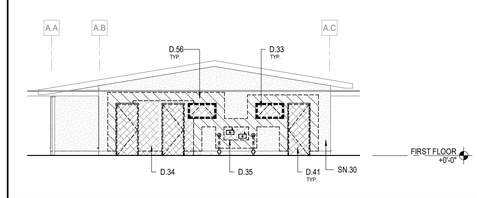
5 DEMO ELEVATION - EXISTING BUILDING B (SOUTH)
SCALE: 1/8" = 1'-0"



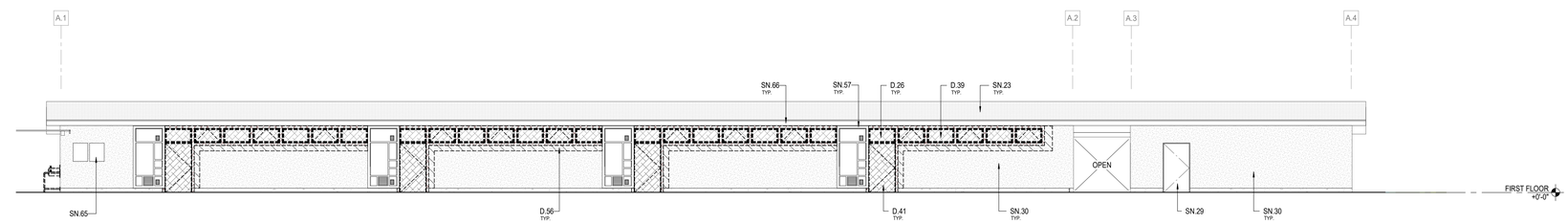
4 DEMO ELEVATION - EXISTING BUILDING A (EAST)
SCALE: 1/8" = 1'-0"



3 DEMO ELEVATION - EXISTING BUILDING A (NORTH)
SCALE: 1/8" = 1'-0"



2 DEMO ELEVATION - EXISTING BUILDING A (WEST)
SCALE: 1/8" = 1'-0"



1 DEMO ELEVATION - EXISTING BUILDING A (SOUTH)
SCALE: 1/8" = 1'-0"

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

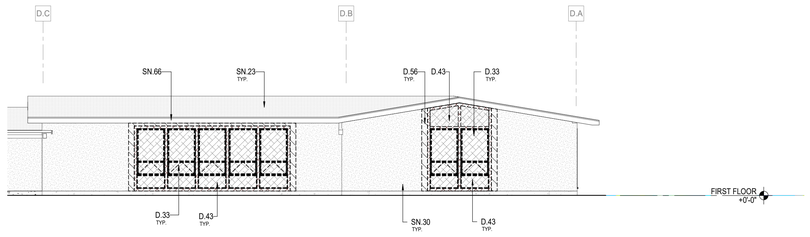
#	DESCRIPTION	DATE

DSA SUBMISSION

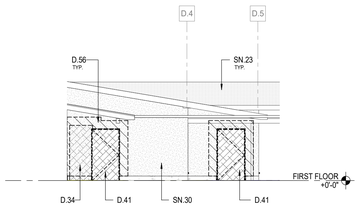
DEMOLITION EXTERIOR ELEVATIONS - BLDGS A,B,C

D5.10

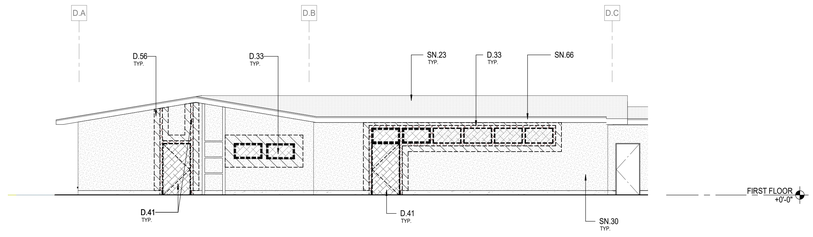
This document is for plan review only



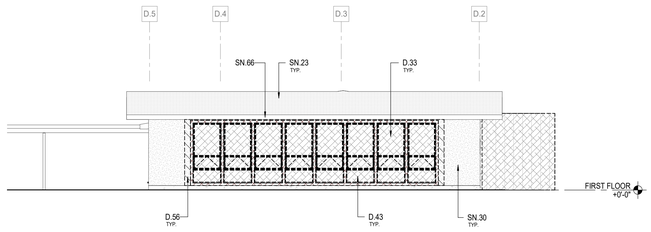
12 DEMO ELEVATION - BUILDING D (EAST)
SCALE: 1/8" = 1'-0"



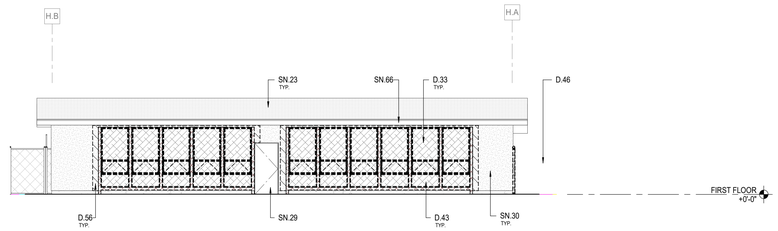
11 DEMO ELEVATOIN - BUILDING D (SOUTH)
SCALE: 1/8" = 1'-0"



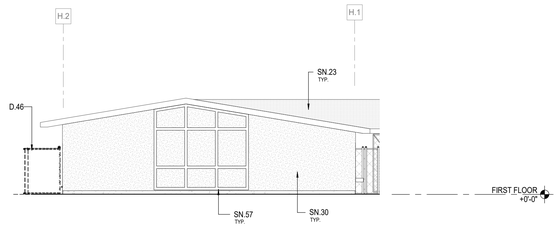
10 DEMO ELEVATION - BUILDING D (WEST)
SCALE: 1/8" = 1'-0"



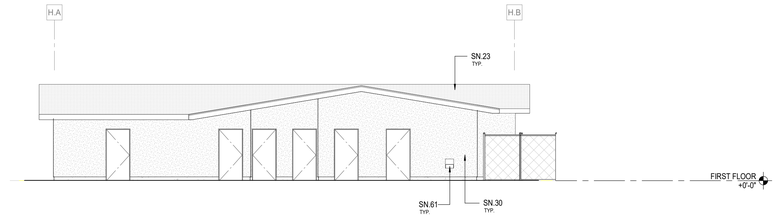
9 DEMO ELEVATION - BUILDING D (NORTH)
SCALE: 1/8" = 1'-0"



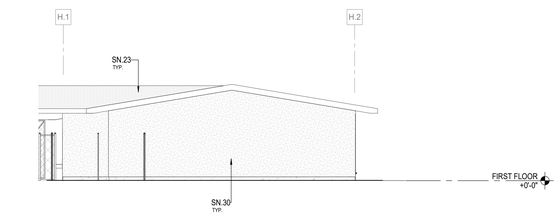
8 DEMO ELEVATION - BUILDING H (EAST)
SCALE: 1/8" = 1'-0"



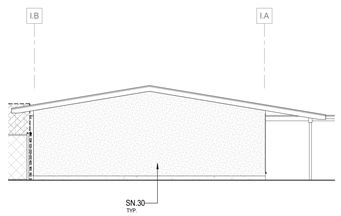
7 DEMO ELEVATION - BUILDING H (NORTH)
SCALE: 1/8" = 1'-0"



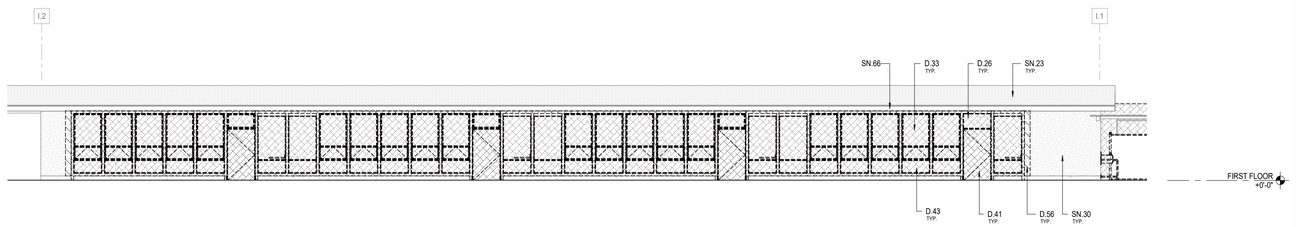
6 DEMO ELEVATION - BUILDING H (WEST)
SCALE: 1/8" = 1'-0"



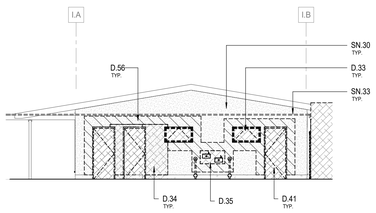
5 DEMO ELEVATION- BUILDING H (SOUTH)
SCALE: 1/8" = 1'-0"



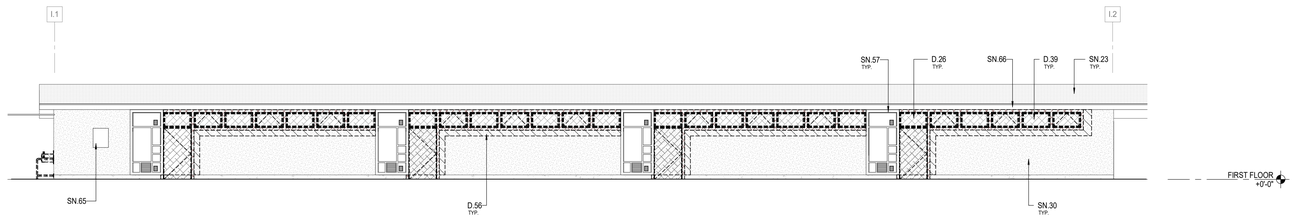
4 DEMO ELEVATION - BUILDING I (EAST)
SCALE: 1/8" = 1'-0"



3 DEMO ELEVATION - BUILDING I (NORTH)
SCALE: 1/8" = 1'-0"



2 DEMO ELEVATION - BUILDING I (WEST)
SCALE: 1/8" = 1'-0"



1 DEMO ELEVATION - BUILDING I (SOUTH)
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR CLARIFICATION AND ADDITIONAL INFORMATION OF DEMOLITION SCOPE.
2. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
3. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
4. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
5. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
6. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.

DEMOLITION KEYNOTES

D.26	REMOVE (E) TRANSOM WINDOW AND TRIM
D.33	REMOVE (E) WINDOW AND TRIM. FRAMING POST TO REMAIN.
D.34	REMOVE (E) WALL AND CONCRETE CURB WHERE IT OCCURS.
D.35	REMOVE (E) DRINKING FOUNTAIN AND RAILS
D.39	REMOVE (E) WOOD CLERESTORY WINDOW AND TRIM. FRAMING POST TO REMAIN.
D.41	REMOVE (E) DOOR, DOOR FRAME, TRIM, & THRESHOLD
D.43	REMOVE (E) TRANSITE PANEL, FRAME, AND TRIM
D.46	REMOVE (E) CHAIN LINK FENCE
D.56	LIMITS OF (E) PLASTER REMOVAL
SN.23	EXISTING ROOF TO REMAIN
SN.29	EXISTING DOOR AND FRAME TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT.
SN.30	EXISTING PLASTER TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT EP-1
SN.33	EXISTING WALKWAY CANOPY TO REMAIN, ROOF OVERHANG ABOVE
SN.57	EXISTING TRIM TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT.
SN.61	EXISTING DRINKING FOUNTAIN TO REMAIN
SN.65	EXISTING ELEC EQUIPMENT. SEE ELEC DWGS
SN.66	EXISTING ROOF CANOPY BLOCKING TO REMAIN. PROTECT, REPAIR AS NECESSARY AND PREP FOR NEW PAINT.

DEMOLITION LEGEND

EXISTING ITEM TO DEMOLISHED

EXISTING PLASTER TO BE REMOVED

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

DEMOLITION EXTERIOR ELEVATIONS - BLDGS D,H,I

This document is for plan review only

D5.11

GENERAL NOTES

1. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.

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

2. WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STAKED BY OTHERS. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.

3. IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.

4. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

5. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.

6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.

7. WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.

9. IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.

10. NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.

11. SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.

12. ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.

13. CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.

14. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.

15. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.

16. NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.

17. WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.

18. ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.

19. ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.

20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB SLAB CONSTRUCTION.

21. SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE, REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.

22. ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.

23. REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

GENERAL PAVING SURFACE NOTES:

1. PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL. PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.

2. ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
   - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
   - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
   - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS AND AT DOOR LANDINGS.

DEMOLITION GENERAL NOTES

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.

2. NO BURNING OR BLASTING SHALL BE PERMITTED.

3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.

4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.

5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.

6. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.

7. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTEND.

8. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.

10. EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.

CIVIL ABBREVIATIONS AND LEGEND

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
ASB	AGGREGATE SUB-BASE
BO	BLOW-OFF VALVE
BV	BUTTERFLY VALVE
BW	BACK OF WALK
C/L	CENTERLINE
CB	CATCH BASIN
CL	CLASS
CMP	CORRUGATED METAL PIPE
CATV	CABLE TELEVISION
CO	CLEANOUT
COMM	COMMUNICATION
CONC.	CONCRETE
CONST.	CONSTRUCT
CR	CURB RETURN
CS	CONCRETE SURFACE
DC	DOUBLE CHECK VALVE
DDC	DOUBLE DETECTOR CHECK VALVE
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
DS	DOWNSPOUT
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EX	EXISTING
FS	FIRE SERVICE LINE
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOWLINE
FM	SANITARY SEWER FORCE MAIN
FF	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
G	GAS
GR	GRATE ELEVATION
GRD	GRADE ELEVATION
GV	GATE VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
INV	PIPE INVERT ELEVATION
JP	JOINT UTILITY POLE
LF	LINEAL FEET
LIP	LIP OF GUTTER
LT	LEFT
MS	MOWSTRIP
NTS	NOT TO SCALE
OH	OVERHEAD
PCC	PORTLAND CEMENT CONCRETE
PD	PLANTER DRAIN
PIV	POST INDICATOR VALVE
P/L	PROPERTY LINE
PP	POWER POLE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R	RADIUS
RIM	MANHOLE RIM ELEVATION (SOLID COVER)
RP	REDUCED PRESSURE BACKFLOW PREVENTER
RW	RIGHT OF WAY
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SG	SUBGRADE ELEVATION
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
S/W	SIDEWALK
T	TELEPHONE
TC	TOP OF CURB
TD	TRENCH DRAIN
TDCB	TRENCH DRAIN CATCH BASIN
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
TSW	TOP OF SEAT WALL
TW	TOP OF WALK ELEVATION
U	UTILITY
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VCP	VITRIFIED CLAY PIPE
W	WATER
W/	WITH
W/O	WITHOUT
WV	WATER VALVE

LEGEND

NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

PROPOSED GRADING & DRAINAGE SYMBOLS:

- 8" SD — STORM DRAIN LINE (SIZE AND FLOW SHOWN)
- STORM DRAIN MANHOLE (SDMH)
- CATCH BASIN (CB)
- DROP INLET (DI)
- AREA DRAIN (AD)
- PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)
- CO — STORM DRAIN CLEANOUT
- 99.99 — ELEVATION
- FF=100.00 — FINISHED FLOOR ELEVATION
- PAD=99.33 — BUILDING PAD ELEVATION
- CONCRETE SIDEWALK
- GRADED DIRECTION FOR DRAINAGE FLOW
- SWALE
- SLOPE
- TREE TO BE REMOVED
- RETAINING WALL

PROPOSED SANITARY SEWER SYMBOLS:

- 6" SS — SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
- SANITARY SEWER MANHOLE (SSMH)
- CO — SEWER CLEANOUT FLUSHER BRANCH

PROPOSED WATER SYMBOLS:

- 8" W — WATER LINE & SIZE
- 8" FS — FIRE LINE & SIZE
- 8" DW — DOMESTIC WATER LINE & SIZE
- 8" RW — RECLAIMED WATER LINE & SIZE
- 8" IRR — IRRIGATION SERVICE LINE & SIZE
- 8" NP — NON POTABLE WATER LINE & SIZE
- 8" SP — FIRE SPRINKLER SERVICE LINE & SIZE
- GATE VALVE
- M — WATER METER
- FH — FIRE HYDRANT ASSEMBLY
- FDC — FIRE DEPARTMENT CONNECTION
- DC — DETECTOR CHECK VALVE
- DDC — DOUBLE DETECTOR CHECK VALVE
- RP — REDUCED PRESSURE BACKFLOW PREVENTER
- BUTTERFLY VALVE
- 1" — AIR RELEASE VALVE + SIZE
- 1" — BLOW-OFF VALVE + SIZE
- PIV — POST INDICATOR VALVE

CONCRETE SAWCUT NOTE

SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND THE NEAREST LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

UTILITY VERIFICATION NOTE

PRIOR TO THE START OF CONSTRUCTION, LOCATE AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

SHEET INDEX

SHT. NO.	DESCRIPTION
C0.0	CIVIL GENERAL NOTES AND ABBREVIATIONS
C0.1	PARTIAL TOPOGRAPHIC SURVEY
C0.2	PARTIAL TOPOGRAPHIC SURVEY
C1.1	PARTIAL DEMOLITION PLAN
C1.2	PARTIAL DEMOLITION PLAN
C1.3	ENGINEERED FILL PLAN
C2.1	PARTIAL GRADING PLAN
C2.2	PARTIAL GRADING PLAN
C3.1	UTILITY PLAN
C4.1	PAVING PLAN
C4.2	STRIPING AND SIGNAGE PLAN
C5.1	DETAILS

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

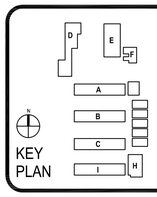
PBK
ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
230217

DATE 08/22/2025

DRAWN BY: JimS CHKED BY: JimS

REVISIONS

#	DESCRIPTION	DATE

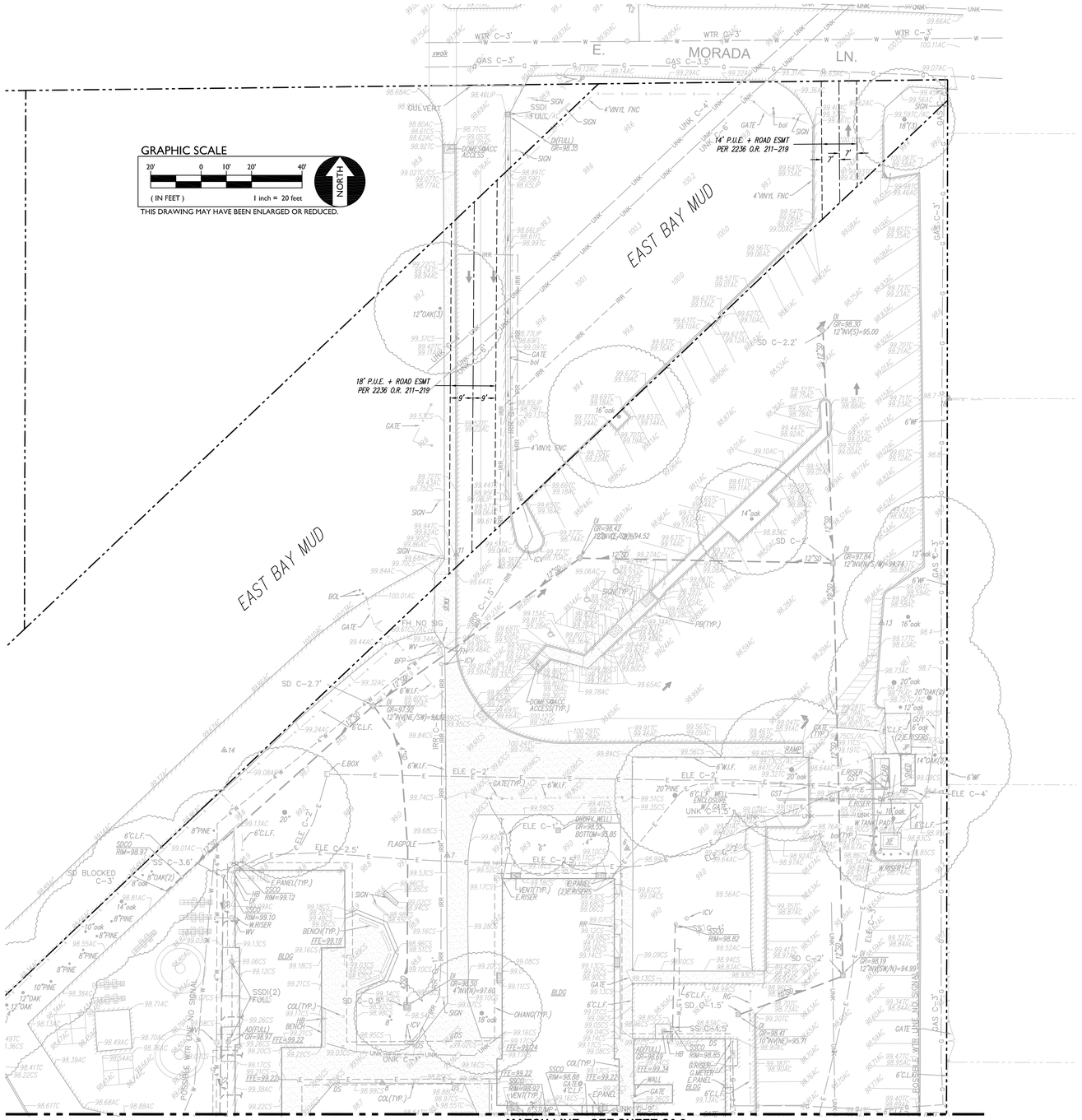
CONSTRUCTION DOCUMENTS

CIVIL GENERAL NOTES AND ABBREVIATIONS

This document is for plan review only

C0.0

FILENAME: I:\21-140\CIVIL\DWG\21-140-C0.0.DWG


GRAPHIC SCALE
20' 0 10' 20' 40'
(IN FEET) 1 inch = 20 feet
NORTH
THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.
E. MORADA LN.
EAST BAY MUD
EAST BAY MUD
14' P.U.E. + ROAD ESMT PER 2236 O.R. 211-219
18' P.U.E. + ROAD ESMT PER 2236 O.R. 211-219
SD C-2.2'
SD C-2.7'
SD C-3.6'
SD BLOCKED C-3'
SD C-1.5'
SD C-2'
SD C-4'
GAS C-3'
GAS C-3.5'
UNK C-4'
UNK C-5'
ELE C-2'
ELE C-2.5'
ELE C-4'
WTR C-3'
IRR C-1.5'
CULVERT
4"VINYL FNC
6'C.L.F.
6'W.I.F.
8"PINE
10"PINE
12"OAK
12"OAK(3)
14"oak
16"oak
18"oak
20"PINE
20"OAK(2)
8"OAK(2)
SSCO RIM=98.97
SSDI RIM=98.12
SSCO RIM=99.10
SSCO RIM=98.68
SSCO RIM=98.92
SSDI(2) RIM=98.57
DI(FULL) RIM=98.35
DI RIM=98.82
DI RIM=98.85
DI RIM=98.89
DI RIM=98.93
DI RIM=98.94
DI RIM=98.98
DI RIM=99.02
DI RIM=99.06
DI RIM=99.10
DI RIM=99.14
DI RIM=99.18
DI RIM=99.22
DI RIM=99.26
DI RIM=99.30
DI RIM=99.34
DI RIM=99.38
DI RIM=99.42
DI RIM=99.46
DI RIM=99.50
DI RIM=99.54
DI RIM=99.58
DI RIM=99.62
DI RIM=99.66
DI RIM=99.70
DI

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

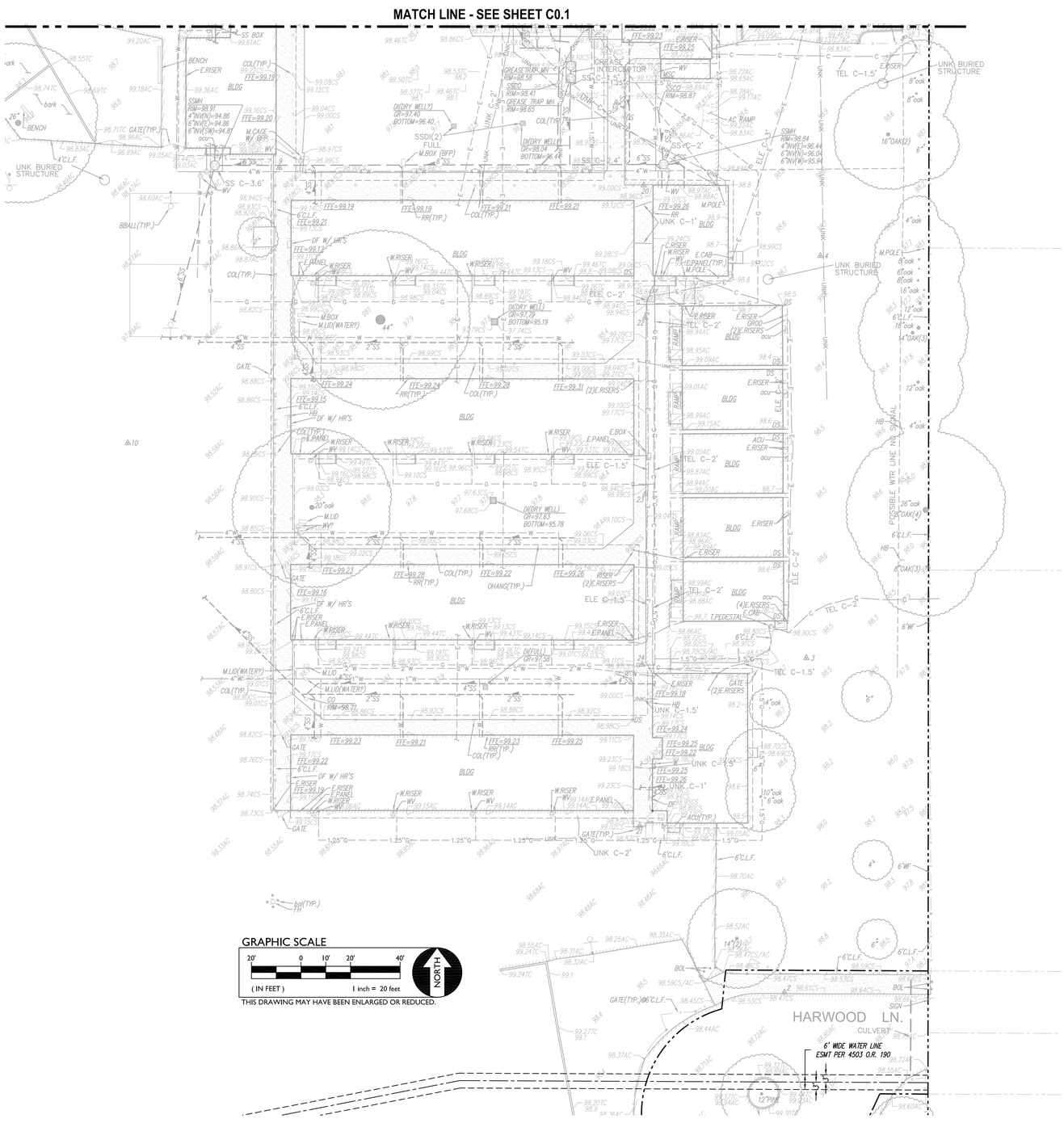
PBK

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

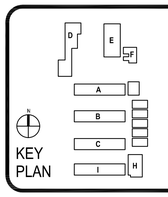
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

LODI UNIFIED SCHOOL DISTRICT



KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
ANTHONY J TASSANO
No. 074696
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: JimS CHKED BY: JimS
REVISIONS

#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

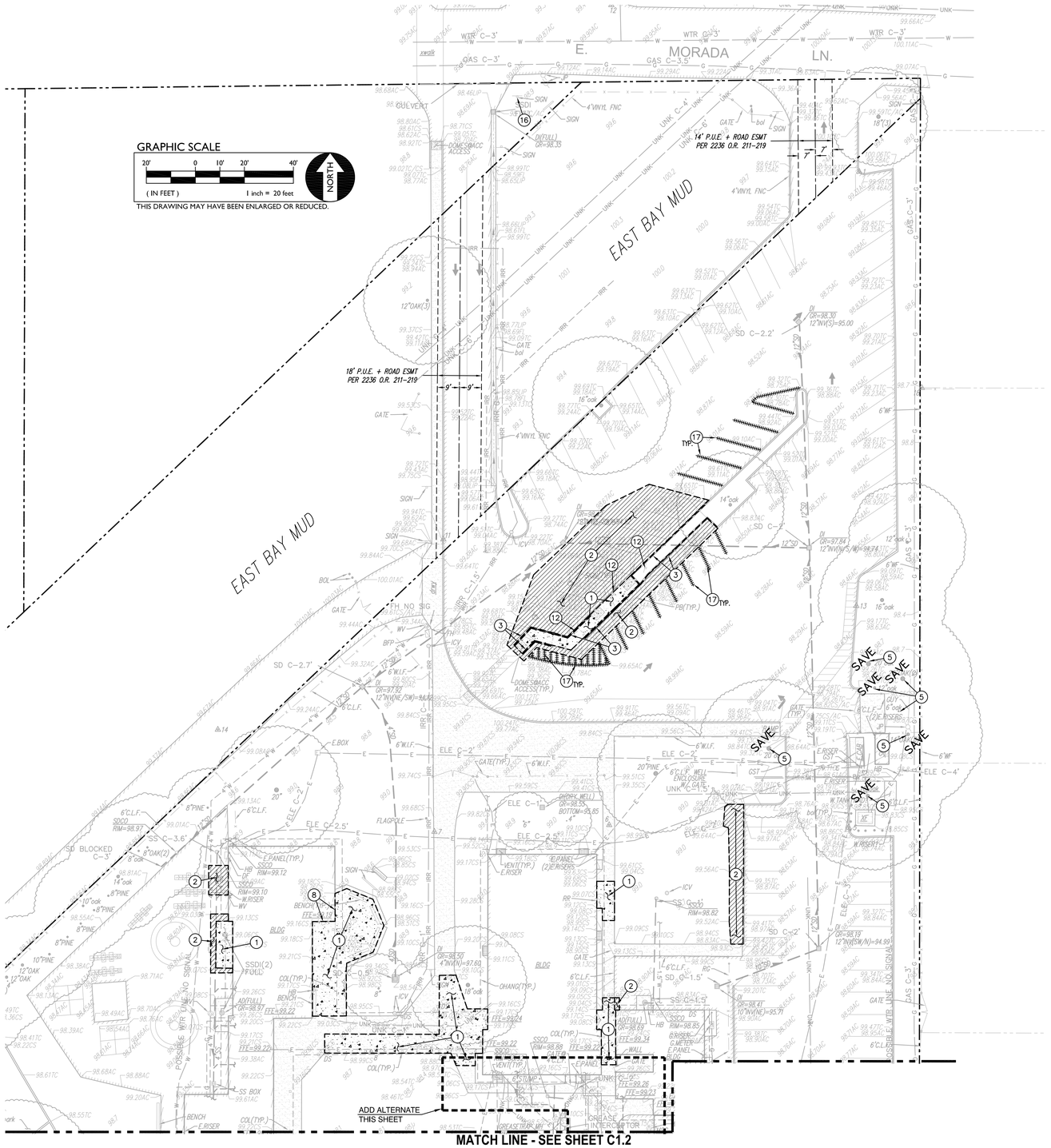
PARTIAL TOPOGRAPHIC SURVEY

C0.2

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

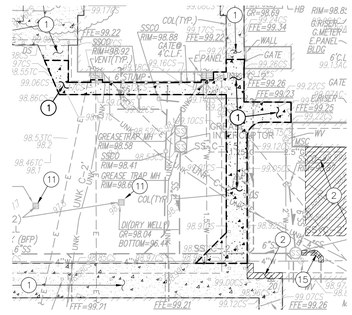
This document is for plan review only

FILENAME: I:\21-140\CIVIL\DWG\21-140-C0.1-C0.2.DWG



DEMOLITION NOTES

1. REMOVE EXISTING CONCRETE PAVING AND AGGREGATE BASE. WHERE SAWCUTS ARE NECESSARY, THEY SHALL BE A NEAT STRAIGHT LINE. CUT SHALL BE MADE AT NEAREST EXISTING JOINT TO LOCATION SHOWN.
2. REMOVE EXISTING ASPHALT PAVING AND AGGREGATE BASE. WHERE SAWCUT EDGES ARE SHOWN, THEY SHALL BE A NEAT STRAIGHT LINE. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED.
3. REMOVE AND DISPOSE OF EXISTING CONCRETE CURB.
4. REMOVE AND DISPOSE OF EXISTING TREE, TRUNK AND ASSOCIATED ROOTS.
5. EXISTING TREE TO REMAIN AND BE PROTECTED.
6. REMOVE EXISTING BUILDING.
7. REMOVE AND DISPOSE OF EXISTING BUILDING RAMP.
8. BUSHHAMMER EDGE OF EXISTING FOOTING AS NECESSARY TO PROVIDE 3.5" OF CONCRETE OVER THE TOP PER ELEVATION SHOWN ON GRADING PLAN.
9. VERIFY EXISTING UNDERGROUND STRUCTURE IS ABANDONED AND REMOVE.
10. REMOVE AND DISPOSE OF WATER LINE.
11. REMOVE AND DISPOSE OF DIRT AND DEBRIS WITHIN DRYWELL STRUCTURE.
12. REMOVE AND RELOCATE EXISTING SIGN AND POLE. REMOVE AND DISPOSE OF EXISTING FOOTING.
13. REMOVE AND SAVE CHAIN LINK FENCE FABRIC. REINSTALL UPON COMPLETION OF NEW FLATWORK.
14. REMOVE AND DISPOSE OF EXISTING FENCE AND GATES.
15. REMOVE AND DISPOSE OF SANITARY SEWER PIPE.
16. REMOVE AND DISOSE OF EXISTING PARKING LOT SIGN.
17. BLACK OUT EXISTING STRIPING WITH TWO COATS BLACK TRAFFIC PAINT.



ADD ALTERNATE DEMOLITION

DEMOLITION GENERAL NOTES

A. THE CONTRACTOR SHALL CONFORM TO CHAPTER 33, CALIFORNIA FIRE CODE (CFC), "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, AT ALL TIMES DURING THE CONSTRUCTION PROCESS. A COPY OF THIS CHAPTER CAN BE PROVIDED TO THE CONTRACTOR AT HIS REQUEST.

B. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.

C. NO BURNING OR BLASTING SHALL BE PERMITTED.

D. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT AND MEMBERS OF USA TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS. CALL USA TOLL FREE AT 1-800-227-2600.

E. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, UTILITY, LANDSCAPE PLANS AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.

F. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.

G. ALL DISPOSED MATERIALS SHALL BE RECYCLED IF POSSIBLE.

H. ALL TRENCHING THROUGH EXISTING ASPHALT PAVEMENT, CONCRETE OR LANDSCAPES SURFACES SHALL BE REMOVED AND REPLACED BACK TO ORIGINAL THICKNESS AND SURFACE.

I. ALL EXISTING SURFACE-SUBSTRATE ADJACENT TO ITEMS OF WORK SHALL BE RESTORED TO ORIGINAL CONDITION.

J. ALL TURF AREAS DISTURBED SHALL BE REPLACED WITH SOD.

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

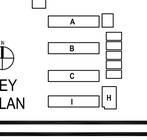
ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
ANTHONY J TASSANO
No. 074696
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: JimS CHKED BY: JimS
REVISIONS

#	DESCRIPTION	DATE

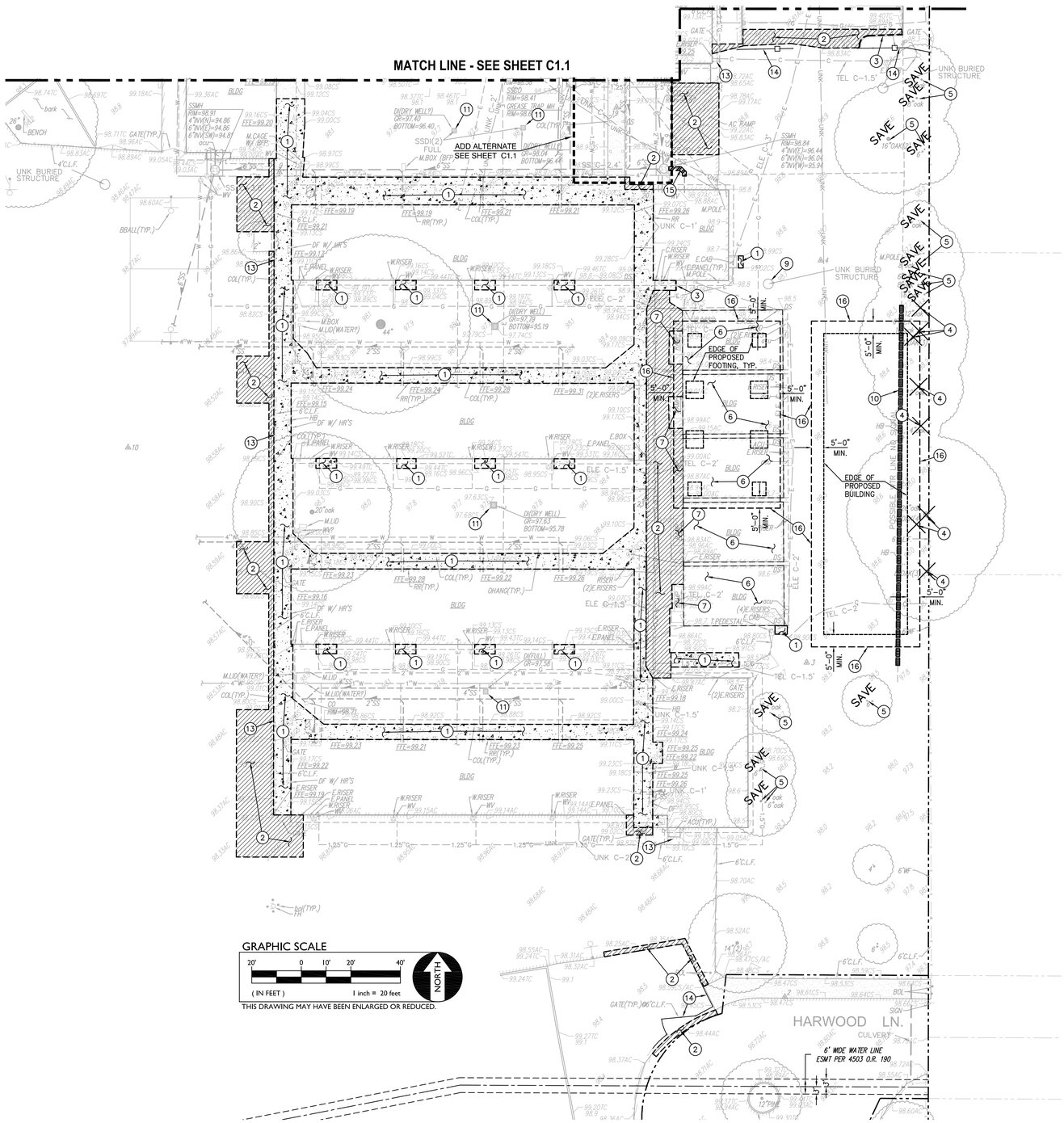
CONSTRUCTION DOCUMENTS

PARTIAL DEMOLITION PLAN

This document is for plan review only

C1.1

FILENAME: I: \21-140\CIVIL\DWG\21-140-C1.1-C1.2.DWG



DEMOLITION NOTES

1. REMOVE EXISTING CONCRETE PAVING AND AGGREGATE BASE. WHERE SAWCUTS ARE NECESSARY, THEY SHALL BE A NEAT STRAIGHT LINE. CUT SHALL BE MADE AT NEAREST EXISTING JOINT TO LOCATION SHOWN.
2. REMOVE EXISTING ASPHALT PAVING AND AGGREGATE BASE. WHERE SAWCUT EDGES ARE SHOWN, THEY SHALL BE A NEAT STRAIGHT LINE. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED.
3. REMOVE AND DISPOSE OF EXISTING CONCRETE CURB.
4. REMOVE AND DISPOSE OF EXISTING TREE, TRUNK AND ASSOCIATED ROOTS.
5. EXISTING TREE TO REMAIN AND BE PROTECTED.
6. REMOVE EXISTING BUILDING.
7. REMOVE AND DISPOSE OF EXISTING BUILDING RAMP.
8. BUSHHAMMER EDGE OF EXISTING FOOTING AS NECESSARY TO PROVIDE 3.5" OF CONCRETE OVER THE TOP PER ELEVATION SHOWN ON GRADING PLAN.
9. VERIFY EXISTING UNDERGROUND STRUCTURE IS ABANDONED AND REMOVE.
10. REMOVE AND DISPOSE OF WATER LINE.
11. REMOVE AND DISPOSE OF DIRT AND DEBRIS WITHIN DRYWELL STRUCTURE.
12. REMOVE AND RELOCATE EXISTING SIGN AND POLE. REMOVE AND DISPOSE OF EXISTING FOOTING.
13. REMOVE AND SAVE CHAIN LINK FENCE FABRIC. REINSTALL UPON COMPLETION OF NEW FLATWORK.
14. REMOVE AND DISPOSE OF EXISTING FENCE AND GATES.
15. REMOVE AND DISPOSE OF SANITARY SEWER PIPE.
16. REMOVE ALL UTILITIES WITHIN, AND A MINIMUM OF 5' BEYOND THE PROPOSED BUILDING/SHADE STRUCTURE FOOTING PERIMETER. COORDINATE REROUTING OF EXISTING UTILITIES WITH APPROPRIATE DISCIPLINE.

NOTES:

SEE SHEET C0.0 FOR ADDITIONAL DEMOLITION GENERAL NOTES.

ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

FILENAME: I:\21-140\CIVIL\DWG\21-140-C1.1-C1.2.DWG

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

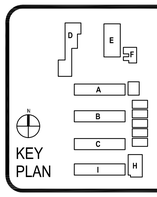
ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74696
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: JimS CHKED BY: JimS
REVISIONS

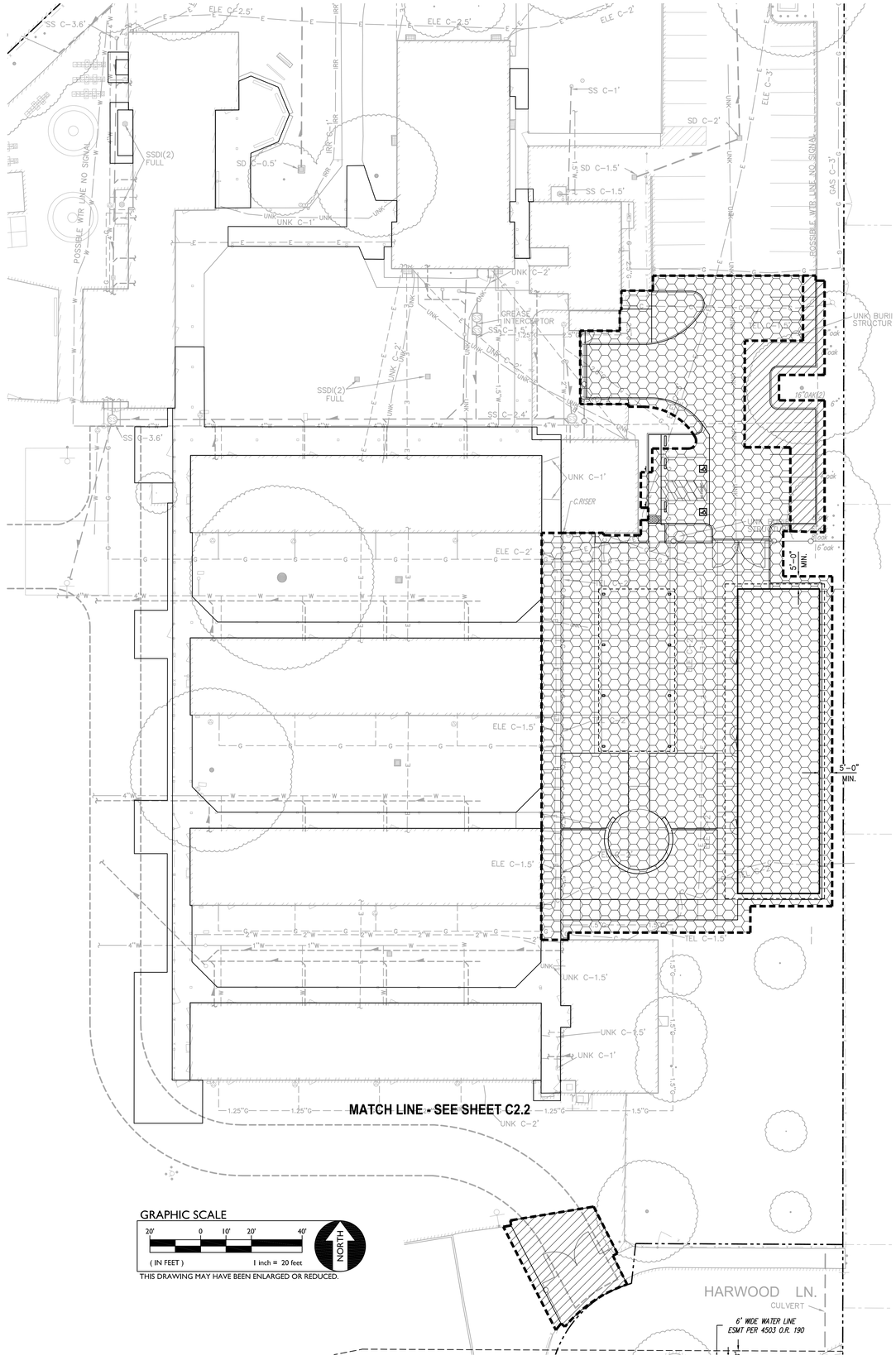
#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PARTIAL DEMOLITION PLAN

C1.2

This document is for plan review only



GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

NORTH

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

SUBGRADE PREPARATION

1. FOLLOWING SITE CLEARING, STRIPPING AND DEMOLITION ACTIVITIES:

   EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 18 INCHES (18" SHALL BE FROM ROUGH SUBGRADE, OR EXISTING GRADE, WHICHEVER IS GREATER).

   THE UPPER 18 INCHES OF PROPOSED SUBGRADE SHALL BE TREATED WITH 5.0 POUNDS OF LIME PER CUBIC FOOT (BY DRY WEIGHT OF SOIL) AND COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION AT A MOISTURE CONTENT OF AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT. LIME TREATMENT SHALL EXTEND A MINIMUM DISTANCE OF 5 FEET FROM OUTSIDE EDGE OF BUILDING FOOTING.

   NOTE: ALL LIME LOCATED WITHIN LANDSCAPE AREAS SHALL BE REMOVED AND REPLACED WITH 18" TOPSOIL.

2. FOLLOWING SITE DEMOLITION ACTIVITIES,

   EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 12 INCHES AND UNIFORMLY MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.

GEOTECHNICAL ENGINEER NOTE

1. BEARING STRATUM FOR FOOTINGS SHALL BE FIRM NATIVE SOIL AND/OR COMPACTED STRUCTURAL FILL. IF UPON EXCAVATION, SOILS ARE UNSTABLE AND/OR SOFT NOTIFY THE GEOTECHNICAL ENGINEER FOR FURTHER DIRECTION.
2. THE ACTUAL PERCENTAGE OF LIME SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER FOLLOWING DEMOLITION AND INITIAL GRADING.

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

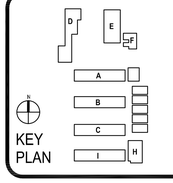
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74696
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: JimS CHKED BY: JimS
REVISIONS

#	DESCRIPTION	DATE

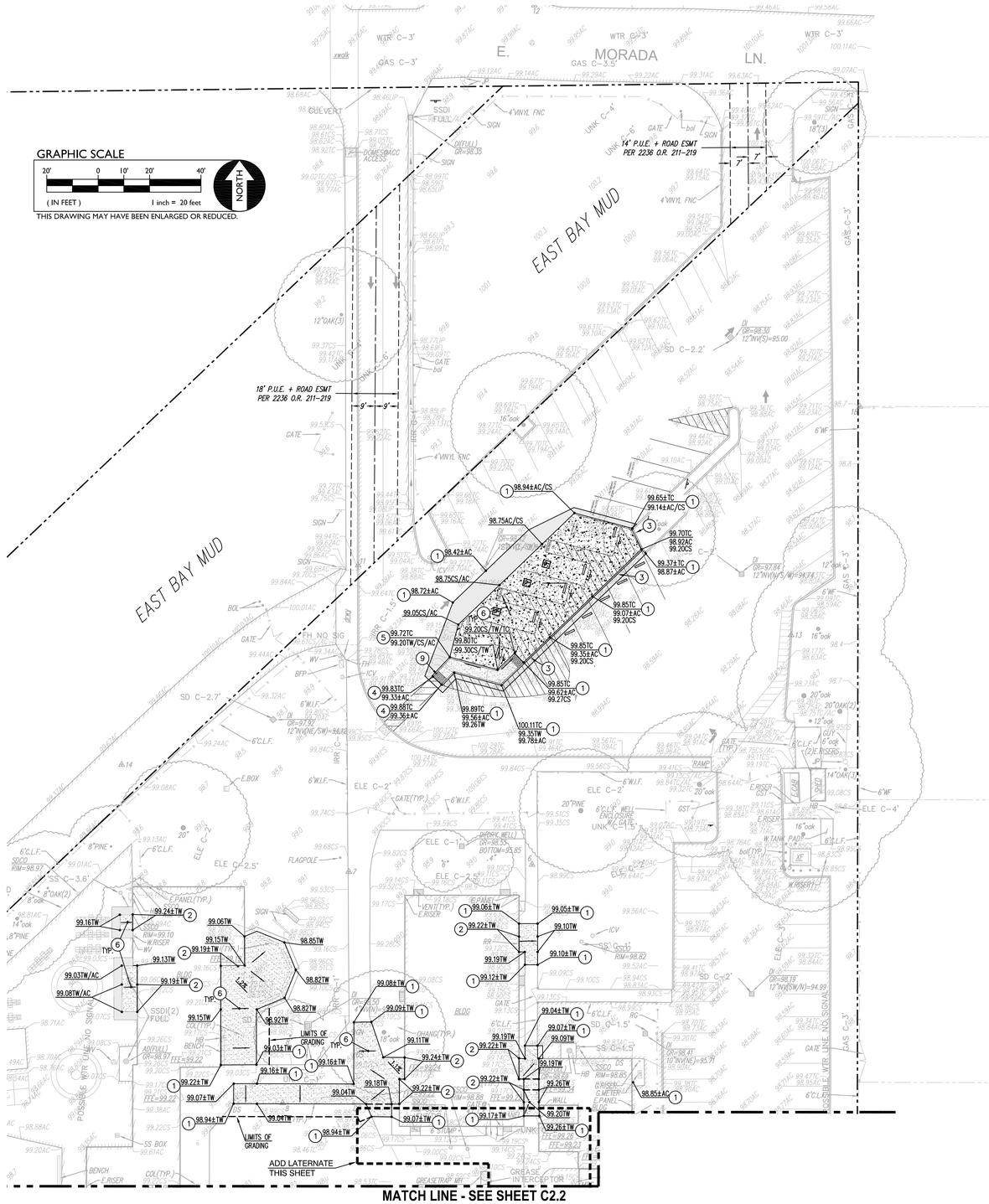
CONSTRUCTION DOCUMENTS

ENGINEERED FILL PLAN

C1.3

This document is for plan review only

FILENAME: I: \21-140\CIVIL\DWG\21-140-C1.3.DWG



GRADING NOTES

1. MATCH EXISTING GRADE/ELEVATION.
2. MATCH EXISTING FLOOR ELEVATION.
3. CONSTRUCT CONCRETE VERTICAL CURB PER 2/C5.1
4. TAPER FINAL 6" OF CURB FROM FULL HEIGHT TO FLUSH WITH FINISH GRADE.
5. PROVIDE 12" WIDE OPENING IN CURB FOR DRAINAGE.
6. PEDESTRIAN FLATWORK SHALL BE SLOPED PER THE GENERAL GRADING NOTES THIS SHEET.
7. CONSTRUCT SEAT WALL PER ARCHITECTURAL DRAWINGS.
8. CONSTRUCT HEADERBOARD PER 9/C5.1
9. INSTALL TRUNCATED DOMES PER 10/C5.1
10. CONSTRUCT CONCRETE ROLLED CURB PER 11/C5.1

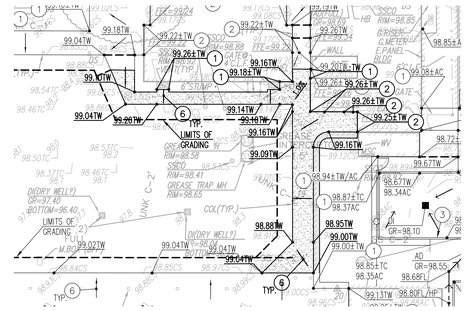
GENERAL GRADING NOTES:

A. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION.
   - DISTURBED TURF SHALL BE REPLACED WITH SOD.
   - LANDSCAPING AND IRRIGATION SHALL BE REPLACED WITH LANDSCAPING AND IRRIGATION IN KIND OR BETTER.

B. ALL AREAS ADJACENT TO PROPOSED FLATWORK SHALL BE GRADED TO DRAIN, 2" BELOW FINISH PAVED SURFACE AND A MAXIMUM SLOPE OF 5:1.

C. REFER TO ARCHITECTURAL PLANS FOR CONCRETE COLORING AND JOINT PATTERNS.

D. SLOPE OF FINISHED PAVING TO BE 1% MINIMUM FOR ASPHALT, 0.5% MINIMUM (1.5% MIN. AWAY FROM BUILDINGS, UNLESS OTHERWISE NOTED) FOR CONCRETE AND THE MAXIMUM SLOPE SHALL BE AS FOLLOWS;
   - CROSS SLOPE PERPENDICULAR TO PATH OF TRAVEL – 2%.
   - DIRECTION OF PATH OF TRAVEL – 5%.
   - RAMP IN DIRECTION OF TRAVEL – 8.33%.
   - PLAZA AREAS, DOOR LANDINGS, ACCESSABLE STALLS AND ACCESSIBLE LOADING AREAS – 2% IN ANY DIRECTION



ADD ALTERNATE SIDEWALK

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

FILENAME: I:\21-140\CIVIL\DWG\21-140-C2.1-C2.2.DWG

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

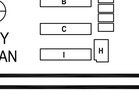
ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
230217

DATE 08/22/2025

DRAWN BY: JimS CHKED BY: JimS

REVISIONS

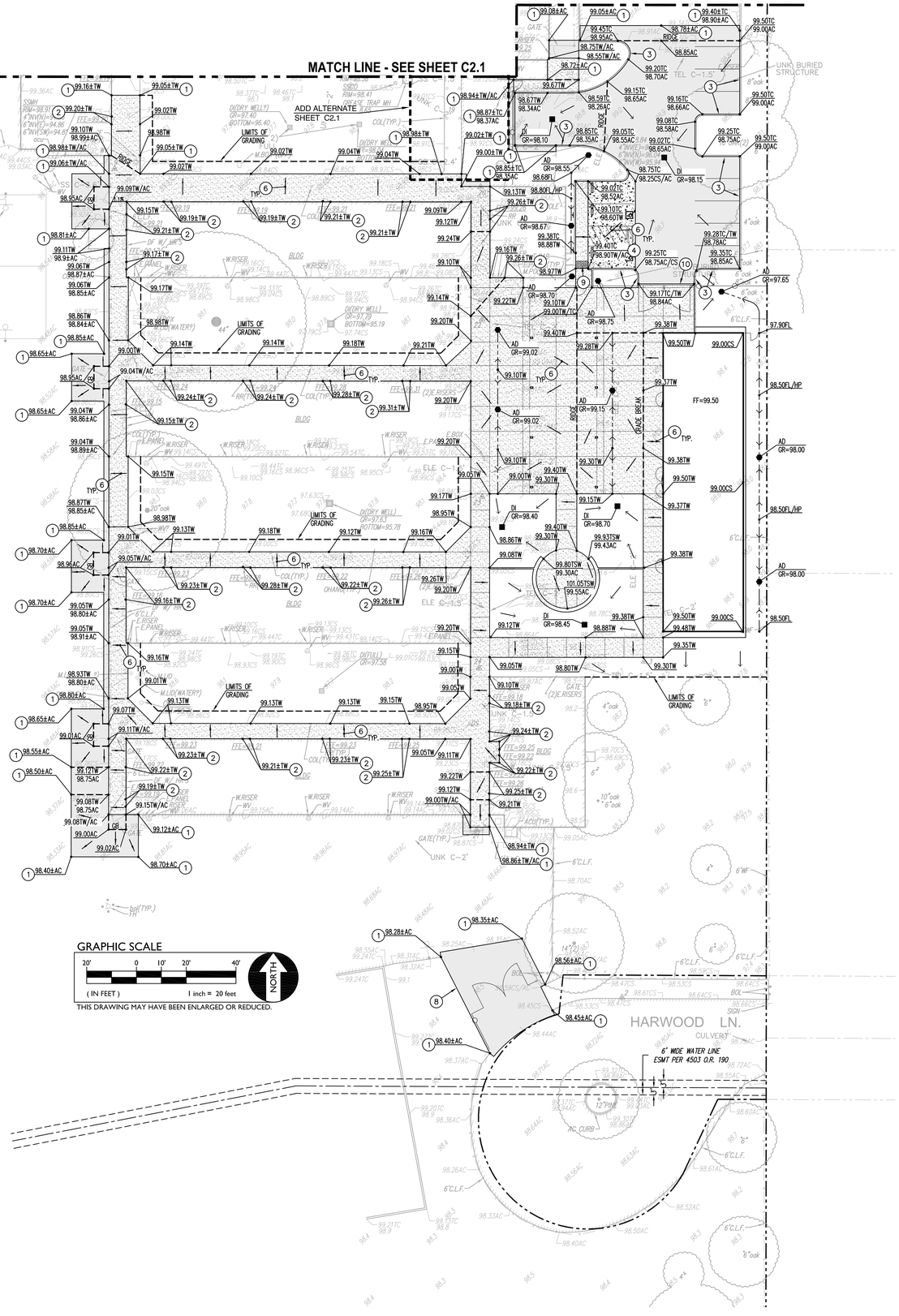
#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PARTIAL GRADING PLAN

C2.1

This document is for plan review only



GRADING NOTES

1. MATCH EXISTING GRADE/ELEVATION.
2. MATCH EXISTING FLOOR ELEVATION.
3. CONSTRUCT CONCRETE VERTICAL CURB PER (2 / C5.1)
4. TAPER FINAL 6" OF CURB FROM FULL HEIGHT TO FLUSH WITH FINISH GRADE.
5. PROVIDE 12" WIDE OPENING IN CURB FOR DRAINAGE.
6. PEDESTRIAN FLATWORK SHALL BE SLOPED PER THE GENERAL GRADING NOTES THIS SHEET.
7. CONSTRUCT SEAT WALL PER ARCHITECTURAL DRAWINGS.
8. CONSTRUCT HEADERBOARD PER (9 / C5.1)
9. INSTALL TRUNCATED DOMES PER (10 / C5.1)
10. CONSTRUCT CONCRETE ROLLED CURB PER (11 / C5.1)

GENERAL GRADING NOTES:

A. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION.
   - DISTURBED TURF SHALL BE REPLACED WITH SOD.
   - LANDSCAPING AND IRRIGATION SHALL BE REPLACED WITH LANDSCAPING AND IRRIGATION IN KIND OR BETTER.

B. ALL AREAS ADJACENT TO PROPOSED FLATWORK SHALL BE GRADED TO DRAIN, 2" BELOW FINISH PAVED SURFACE AND A MAXIMUM SLOPE OF 5:1.

C. REFER TO ARCHITECTURAL PLANS FOR CONCRETE COLORING AND JOINT PATTERNS.

D. SLOPE OF FINISHED PAVING TO BE 1% MINIMUM FOR ASPHALT, 0.5% MINIMUM (1.5% MIN. AWAY FROM BUILDINGS, UNLESS OTHERWISE NOTED) FOR CONCRETE AND THE MAXIMUM SLOPE SHALL BE AS FOLLOWS;
   - CROSS SLOPE PERPENDICULAR TO PATH OF TRAVEL – 2%
   - DIRECTION OF PATH OF TRAVEL – 5%
   - RAMP IN DIRECTION OF TRAVEL – 8.33%
   - PLAZA AREAS, DOOR LANDINGS, ACCESSABLE STALLS AND ACCESSIBLE LOADING AREAS – 2% IN ANY DIRECTION

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

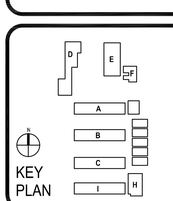
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74696
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: JimS CHKED BY: JimS

REVISIONS

#	DESCRIPTION	DATE

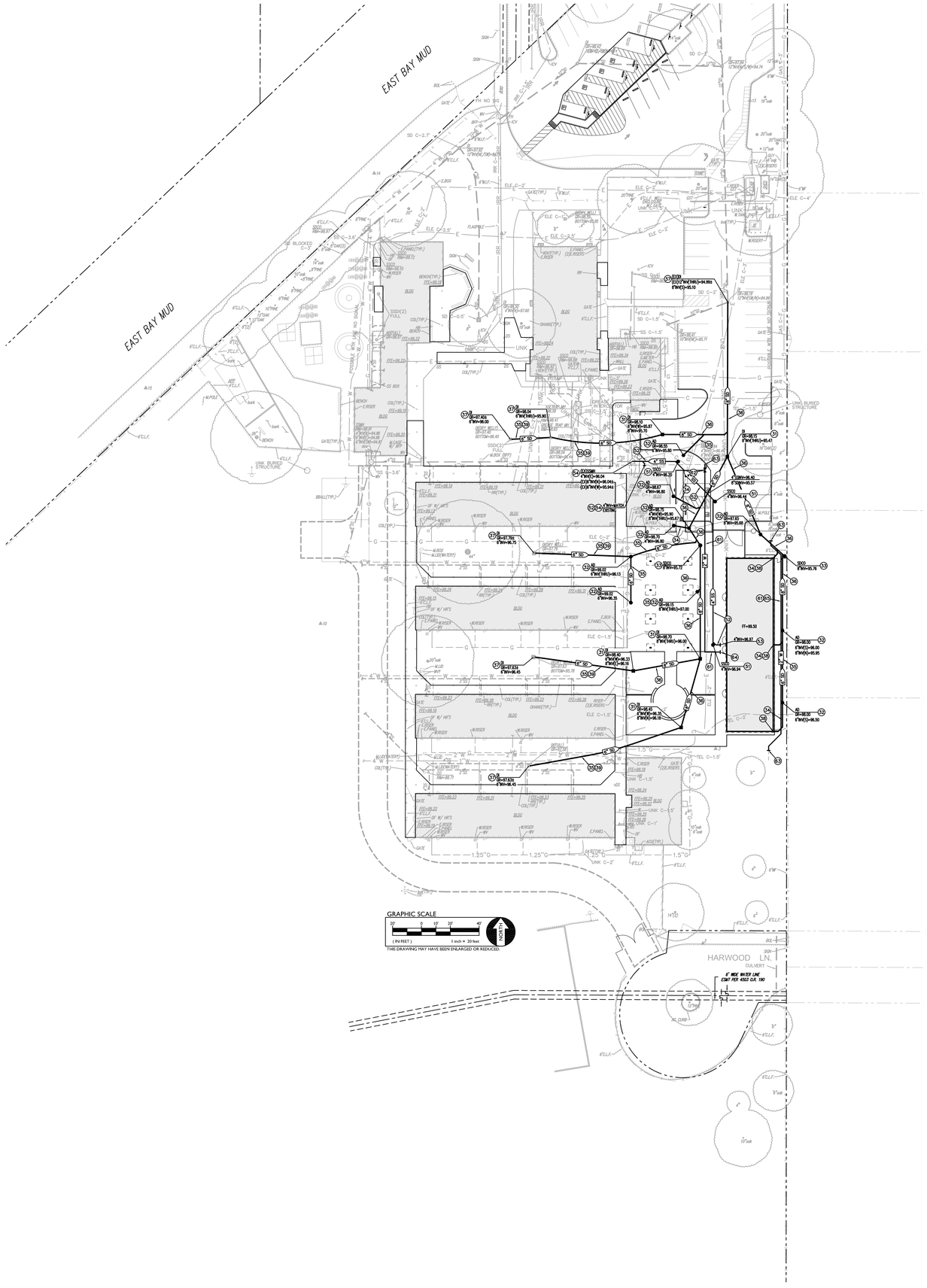
CONSTRUCTION DOCUMENTS

PARTIAL GRADING PLAN

C2.2

This document is for plan review only

FILENAME: I:\21-140\CIVIL\DWG\21-140-C2.1-C2.2.DWG



DRAINAGE NOTES:

31. CONSTRUCT DROP INLET PER (3/C5.1)
32. CONSTRUCT AREA DRAIN PER (4/C5.1)
33. CONSTRUCT STORM DRAIN CLEANOUT PER (6/C5.1)
34. PLACE 4" STORM DRAIN PIPE PER
35. PLACE 6" STORM DRAIN PIPE PER (6/C5.1)
36. PLACE 8" STORM DRAIN PIPE PER
37. CONNECT TO EXISTING STORM DRAIN. POTHOLE TO VERIFY DEPTH AND LOCATION PRIOR TO TRENCHING.
38. PROVIDE DOWNSPOUT CONNECTION. COORDINATE THE LAYOUT AND EXACT LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. COORDINATE INVERT ELEVATION WITH THE SITE PLUMBING CONTRACTOR AND DETAIL PROVIDED PRIOR TO EXCAVATION. (8/C5.1)
39. OVERFLOW DRAIN.

SEWER NOTES

51. CONSTRUCT SANITARY SEWER CLEANOUT PER (5/C5.1)
52. PLACE 4" SDR 35 SANITARY SEWER PIPE PER (6/C5.1)
53. CONNECT TO BUILDING SANITARY SEWER SERVICE. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION. COORDINATE POINT OF CONNECTION WITH PLUMBING PLANS PRIOR TO TRENCHING.
54. CONNECT TO EXISTING SANITARY SEWER LINE. VERIFY DEPTH AND LOCATION PRIOR TO TRENCHING.PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

WATER NOTES

61. PLACE 2" WATER PIPE PER (7/C5.1)
62. PROVIDE GATE VALVE TO MATCH LINE SIZE.
63. CONNECT TO EXISTING WATER LINE. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
64. CONNECT TO BUILDING WATER SERVICE. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION. COORDINATE POINT OF CONNECTION WITH PLUMBING PLANS PRIOR TO TRENCHING.
65. VERIFY AND MATCH EXISTING WATER LINE SIZE.

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN

ANTHONY J. TASSANO
No. C74696
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

CLIENT: LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER: 230217
DATE: 08/22/2025
DRAWN BY: JimS CHKED BY: JimS

REVISIONS

#	DESCRIPTION	DATE

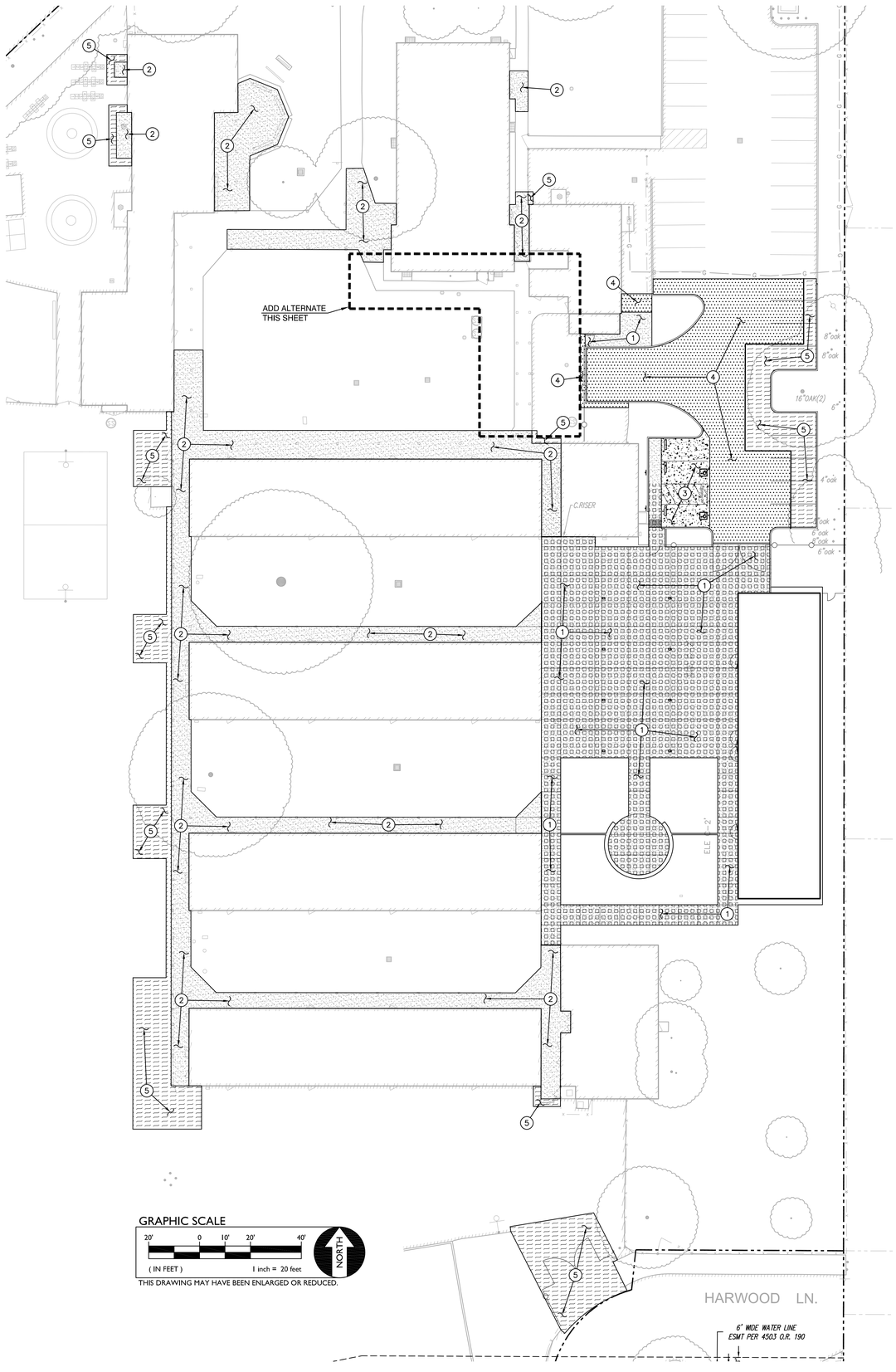
CONSTRUCTION DOCUMENTS

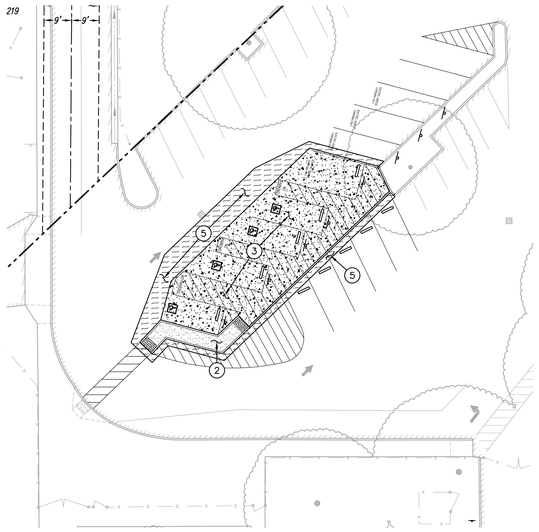
UTILTIY PLAN

This document is for plan review only

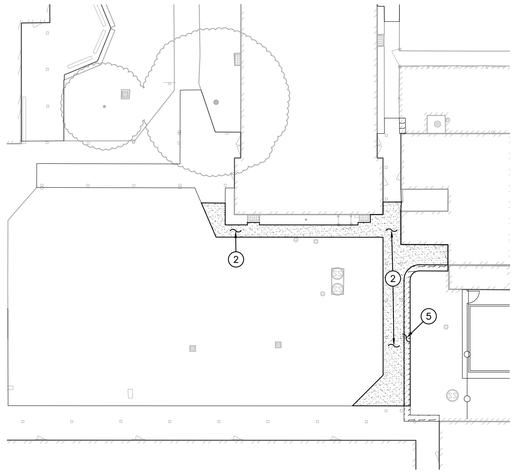
C3.1

FILENAME: I:\21-140\CIVIL\DWG\21-140-C3.1.DWG





NORTH ADA STALL PAVING



ADD ALTERNATE SIDEWALK

PAVING LEGEND

1. TYPE 1 PAVING (SIDEWALK)
   PLACE 5" PCC WITH #4 REBAR @ 12" O.C.E.W. OVER 4" CLASS II AB ON LIME TREATED SUBGRADE. (1 C5.1)
2. TYPE 2 PAVING (SIDEWALK)
   PLACE 5" PCC WITH #4 REBAR @ 12" O.C.E.W. OVER 4" CLASS II AB ON TENSAR INTERAX NX850 ON COMPACTED SUBGRADE. (1 C5.1)
3. TYPE 3 PAVING (PARKING STALL)
   PLACE 6" PCC WITH #4 REBAR @ 12" O.C.E.W. OVER 4" CLASS II AB ON TENSAR INTERAX NX850 ON COMPACTED SUBGRADE. (1 C5.1)
4. TYPE 4 PAVING (PARKING STALL)
   PLACE 3" AC OVER 4" CLASS II AB ON LIME TREATED SUBGRADE.
5. TYPE 5 PAVING (PARKING STALL)
   PLACE 3" AC OVER 4" CLASS II AB ON TENSAR INTERAX NX850 ON COMPACTED SUBGRADE.

PAVING GENERAL NOTES:

1. AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AGGREGATE BASE.
2. ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
3. RECYCLED ASPHALT MAY BE USED AS CONCRETE AND ASPHALT BASE MATERIAL PROVIDED IT MEETS CALTRANS SPECIFICATIONS FOR CLASS II AB.
4. PAVEMENT SUBGRADE PREPARATION, I.E. SCARIFICATION, MOISTURE CONDITIONING, AND COMPACTION SHALL BE PERFORMED AFTER;
   A. POT HOLING ALL EXISTING UTILITIES,
   B. THE INSTALLATION OF UNDERGROUND UTILITIES AND TRENCHES BACKFILLED IN ACCORDANCE WITH THESE PLANS.
6. ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURFACED BY THIS SET OF PLANS, OR LANDSCAPE PLANS, SHALL BE RESTORED.
7. REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.
8. ADJUST TO FINISH GRADE ALL BOXES, FRAMES, COVERS SLEEVES, POST HOLES, GRATES, ETC. FOUND IN NEW ASPHALT OR CONCRETE PAVING AREAS, WHICH ARE NOT NOTED FOR REMOVAL. REPLACE PER PLAN.
9. ALL NEW ASPHALT PAVING TO BE PROVIDED WITH SEALCOAT PER SPECIFICATIONS.
10. REFER TO ARCHITECTURAL PLANS FOR CONTROL AND EXPANSION JOINTS, AND CONCRETE FINISH.
11. SLOPE OF FINISHED PAVING TO BE 1% MINIMUM FOR ASPHALT, 0.5% MINIMUM FOR CONCRETE (1% MIN. AWAY FROM BUILDINGS) AND THE MAXIMUM SLOPE SHALL BE AS FOLLOWS;

    CROSS SLOPE PERPENDICULAR TO PATH OF TRAVEL – 2%
    DIRECTION OF TRAVEL – 5%
    RAMP IN DIRECTION OF TRAVEL – 8.33%
    PLAZA 2% – IN ANY DIRECTION

12. ALL EXPOSED ASPHALT EDGES SHALL HAVE 12" WIDE CONCRETE FLUSH CURB WHETHER SHOWN OR NOT.
13. REFER TO ARCHITECTURAL PLANS FOR STRIPING LAYOUT.

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

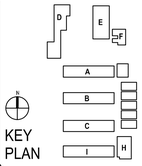
ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: JimS CHKED BY: JimS
REVISIONS

#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PAVING PLAN

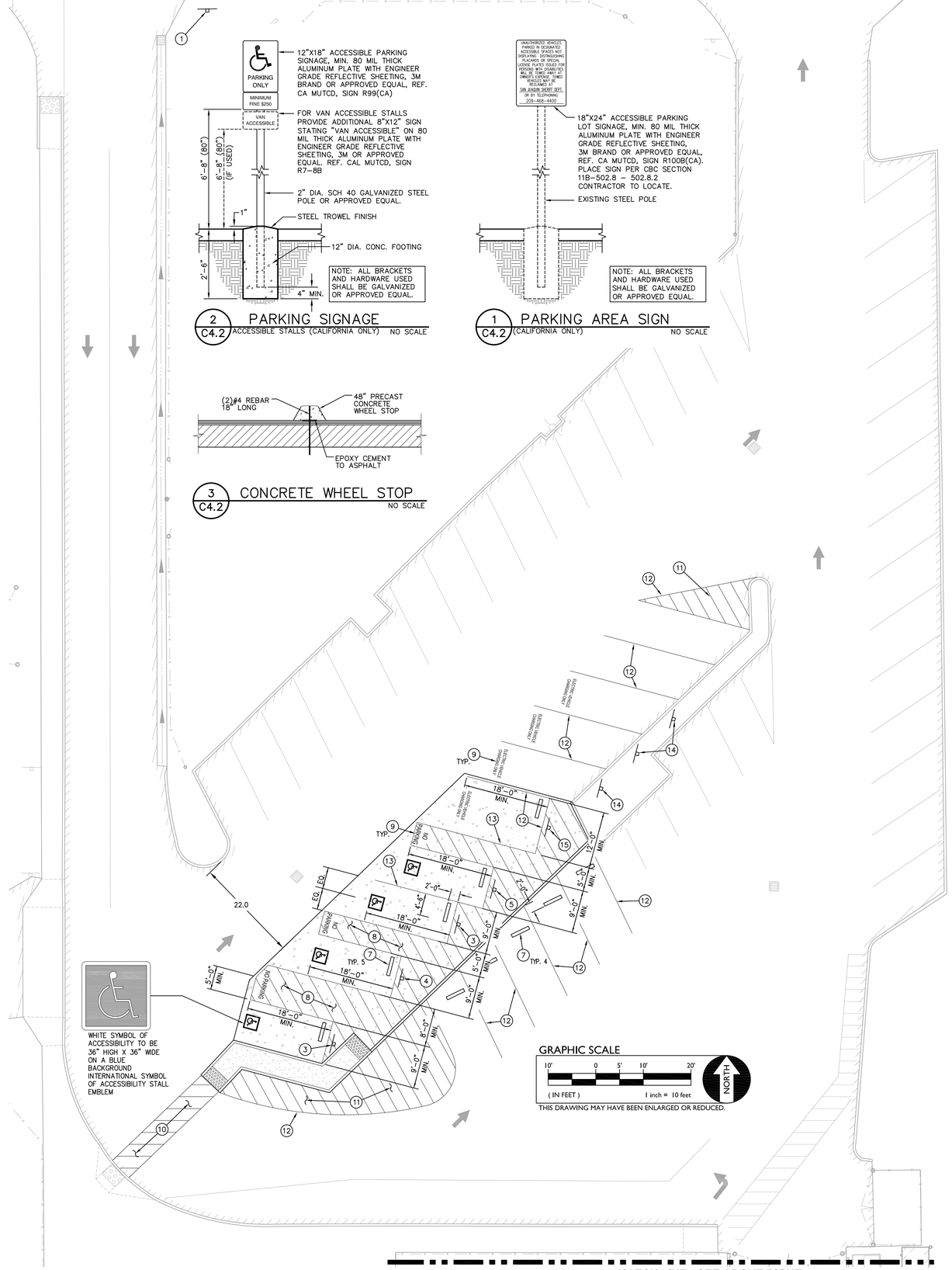
This document is for plan review only

C4.1

FILENAME: I:\21-140\CIVIL\DWG\21-140-C4.1.DWG

E. MORADA LN.

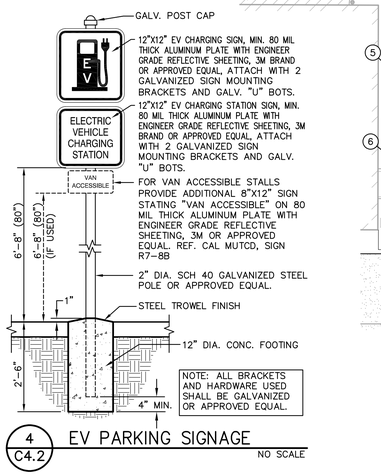
MATCH LINE - SEE BELOW LEFT

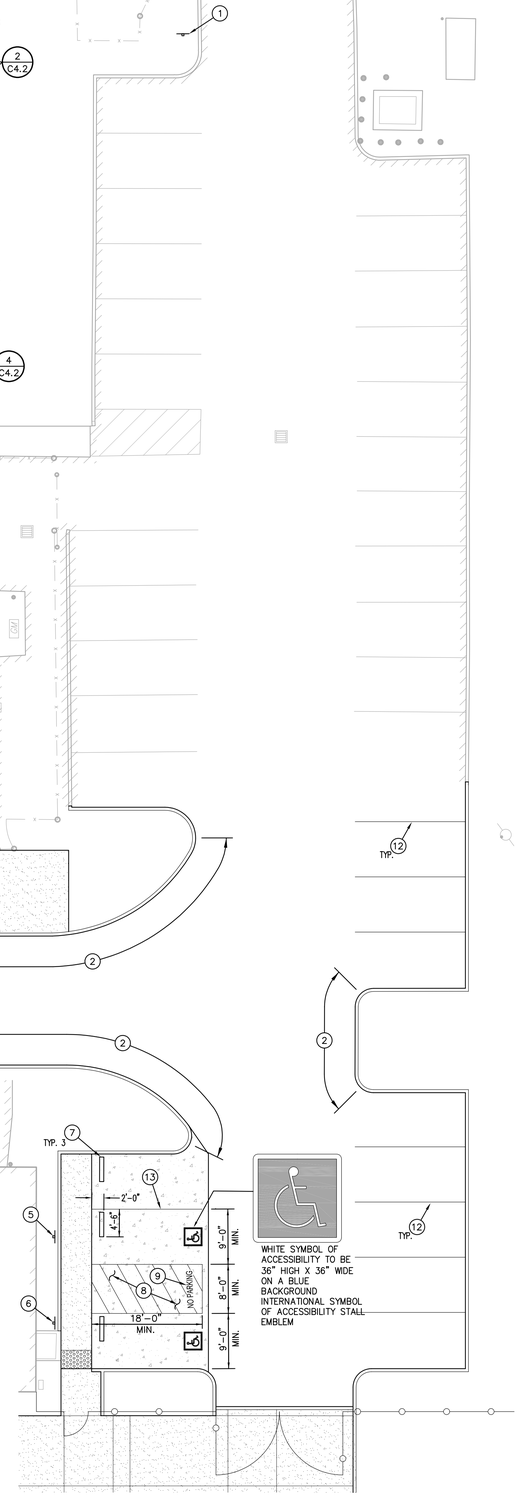


MATCH LINE - SEE ABOVE RIGHT

STRIPING NOTES

1. PROVIDE ACCESSIBLE PARKING LOT SIGN PER (1 C4.2)
2. PAINT CURB RED. PROVIDE 4" TALL WHITE LETTERS STATING "NO PARKING FIRE LANE".
3. EXISTING ADA PARKING SIGN TO BE RE-INSTALLED PER (2 C4.2)
4. EXISTING VAN ADA ACCESSIBLE SIGN TO BE RE-INSTALLED PER (2 C4.2)
5. PROVIDE ACCESSIBLE STALL SIGNAGE PER (2 C4.2)
6. PROVIDE VAN ACCESSIBLE SIGNAGE PER (3 C4.2)
7. PLACE CONCRETE WHEEL STOP PER (3 C4.2)
8. ACCESSIBLE AISLE. THE ACCESS AISLE SHALL BE MARKED BY A BORDER PAINTED BLUE. WITHIN THE BLUE BORDER HATCHED LINES THAT ARE A MAXIMUM OF 36" ON CENTER ARE PAINTED WITH A COLOR THAT CONTRAST WITH THE PARKING SURFACE, PREFERABLY BLUE OR WHITE.
9. PLACE 12" HIGH WHITE LETTERING.
10. CROSSWALK. THE CROSSWALK SHALL BE MARKED WITH 4" WHITE LINES AND HATCHING TO MATCH EXISTING CONFIGURATION OF CROSSWALK STRIPING.
11. PROVIDE HATCHED 4" WIDE LINES THAT ARE A MAXIMUM OF 36" ON CENTER AND ARE PAINTED WHITE.
12. PAINT 4" WIDE WHITE STRIPE.
13. PAINT 4" WIDE BLUE STRIPE.
14. PROVIDE EV PARKING STALL SIGN PER (4 C4.2)
15. PROVIDE VAN ACCESSIBLE EV PARKING STALL SIGN PER (4 C4.2)





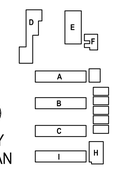
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
No. C74086
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: JimS CHKED BY: JimS
REVISIONS

#	DESCRIPTION	DATE

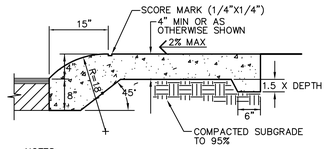
CONSTRUCTION DOCUMENTS

STRIPING AND SIGNAGE PLAN

This document is for plan review only

C4.2

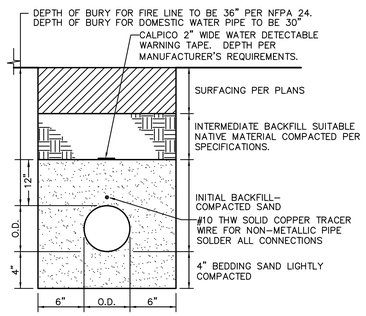
FILENAME: I:\21-140\CIVIL\DWG\21-140-C4.2.DWG



NOTES:

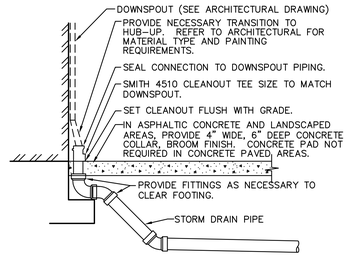
1. PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. PROVIDE CONTROL JOINTS AT 10 FEET O.C.
2. AT E.J. USE 1/2"X24" SMOOTH DOWELS, 18"O.C. GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

11 / C5.1 ROLLED CURB AND SIDEWALK — NO SCALE

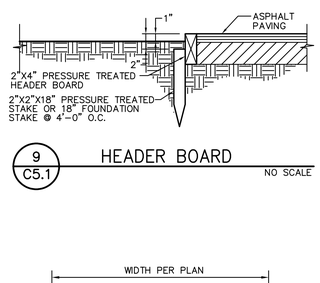


NOTES:
SEE DETAIL 1 – EXCAVATION PARALLEL TO FOOTINGS ON SHEET S0.11 FOR TRENCH LOCATION RESTRICTIONS.

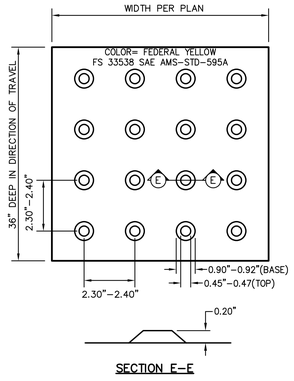
7 / C5.1 WATER TRENCH — NO SCALE



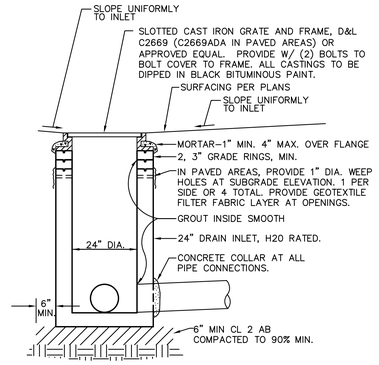
8 / C5.1 DOWNSPOUT CONNECTION — NO SCALE



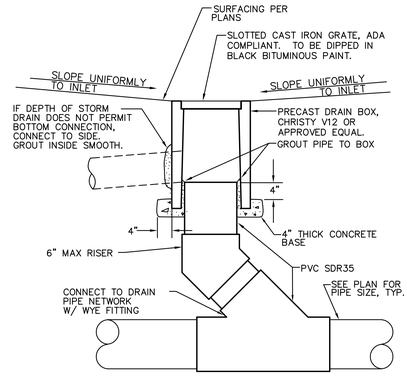
9 / C5.1 HEADER BOARD — NO SCALE



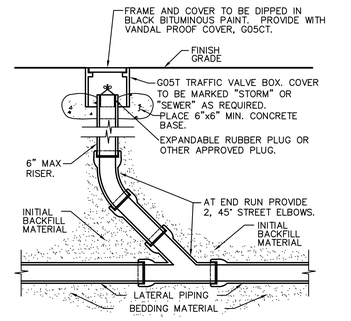
10 / C5.1 TRUNCATED DOMES — NO SCALE



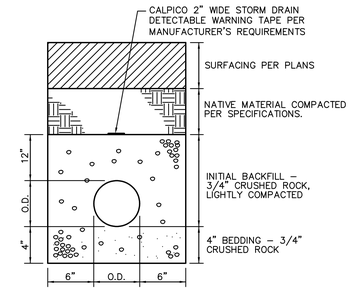
3 / C5.1 DROP INLET — NO SCALE



4 / C5.1 AREA DRAIN — NO SCALE

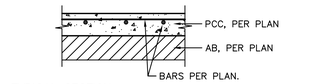


5 / C5.1 CLEANOUT — NO SCALE

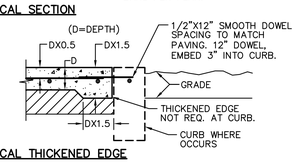


NOTES:
SEE DETAIL 1 – EXCAVATION PARALLEL TO FOOTINGS ON SHEET S0.11 FOR TRENCH LOCATION RESTRICTIONS.

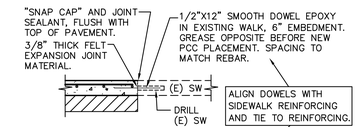
6 / C5.1 STORM DRAIN TRENCH — NO SCALE



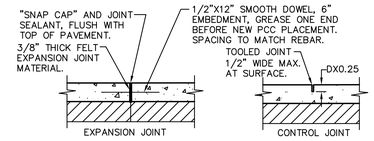
TYPICAL SECTION



TYPICAL THICKENED EDGE



CONNECTION TO (E) CONCRETE

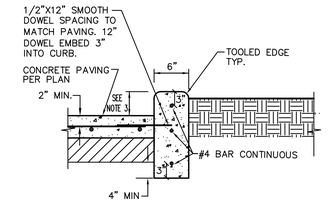


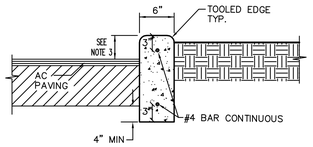
TYPICAL JOINTS

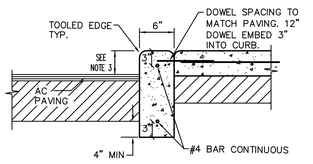
NOTES:

1. PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
2. PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
3. EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

1 / C5.1 CONCRETE SIDEWALK — NO SCALE







NOTES:

1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. MAXIMUM PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAXIMUM, EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
2. AT E.J. USE 1/2"X24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.
3. CURB HEIGHT IS 6" UNLESS NOTED OTHERWISE BY GRADES SHOWN ON GRADING PLAN.

2 / C5.1 CONCRETE CURB — NO SCALE

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

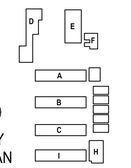
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74626
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: JimS CHKED BY: JimS
REVISIONS

#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

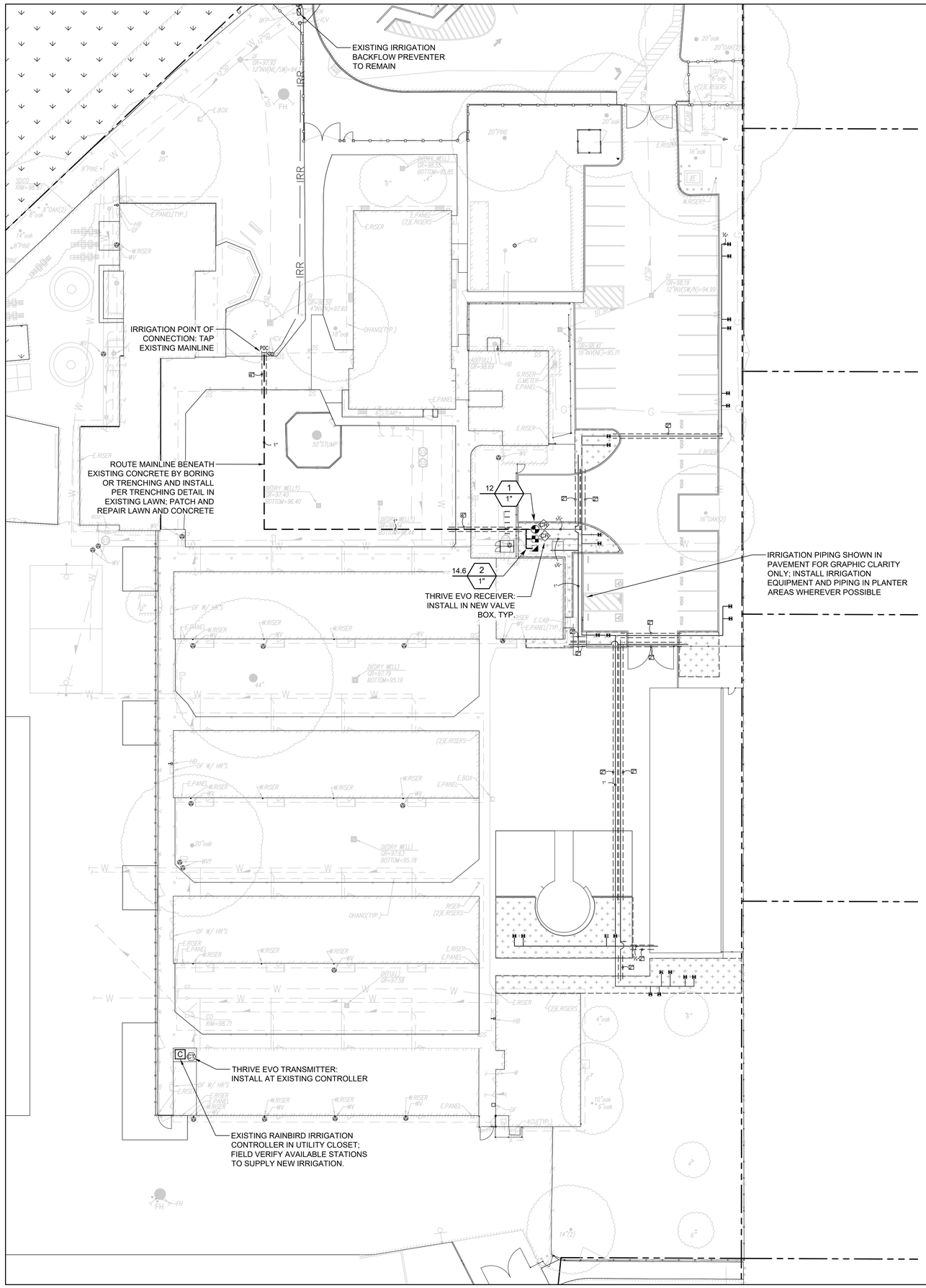
DETAILS

C5.1

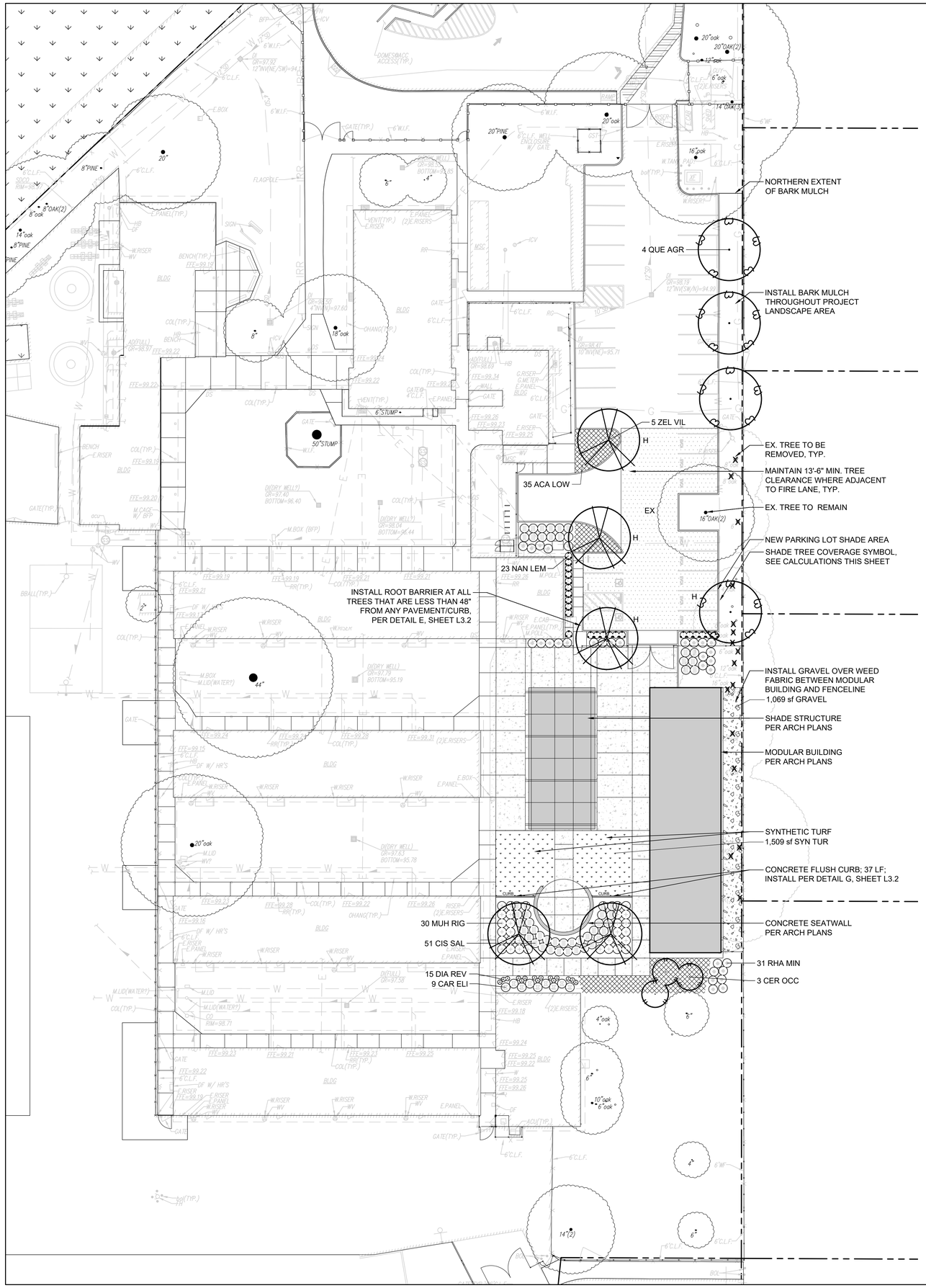
This document is for plan review only

FILENAME: I:\21-140\CIVIL\DWG\21-140-C5.1.DWG

L1.1 IRRIGATION PLAN


EXISTING IRRIGATION BACKFLOW PREVENTER TO REMAIN
IRRIGATION POINT OF CONNECTION: TAP EXISTING MAINLINE
POC 1"
ROUTE MAINLINE BENEATH EXISTING CONCRETE BY BORING OR TRENCHING AND INSTALL PER TRENCHING DETAIL IN EXISTING LAWN; PATCH AND REPAIR LAWN AND CONCRETE
12 1 1"
14.6 2 1"
THRIVE EVO RECEIVER: INSTALL IN NEW VALVE BOX, TYP.
IRRIGATION PIPING SHOWN IN PAVEMENT FOR GRAPHIC CLARITY ONLY; INSTALL IRRIGATION EQUIPMENT AND PIPING IN PLANTER AREAS WHEREVER POSSIBLE
C CT
THRIVE EVO TRANSMITTER: INSTALL AT EXISTING CONTROLLER
EXISTING RAINBIRD IRRIGATION CONTROLLER IN UTILITY CLOSET; FIELD VERIFY AVAILABLE STATIONS TO SUPPLY NEW IRRIGATION.
IRR
E.BOX
E.RISER
E.PANEL
W.RISER
(2)E.RISERS
E.PANEL(TYP.)
D(DRY WELL) OR=97.63 BOTTOM=95.85
D(DRY WELL) OR=97.40 BOTTOM=96.40
D(DRY WELL) OR=97.79 BOTTOM=95.19
D(DRY WELL) OR=97.63 BOTTOM=95.78
D(FULL) OR=97.58
ACU(TYP.)
CHANG(TYP.)
DF W/ HR'S
HB
WV
GV
FH
20"PINE
8"PINE
20"OAK(2)
14"oak
8"oak
50"STUMP
16"OAK(2)
12"oak
6"oak
4"oak
SDCO RIM=99.55
SDCO RIM=98.71
G.METER
G.RISER
ADF(FULL) OR=98.69
OR=98.53 4"W(N)=97.63
OR=98.53 12"W(SW/N)=94.99
OR=98.53 10"W(NE)=95.71
OR=98.79 12"W(SW/N)=94.99
OR=98.79 4"W(N)=97.79
OR=98.79 12"W(NE/SW)=94.99
OR=98.79 12"W(NE/SW)=94.99
OR=98.79 4"W(N)=97.79

L2.1 PLANTING PLAN



PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE
TREES				
	CER OCC	3	Cercis occidentalis 'Standard' / Western Redbud	15 gal
	QUE AGR	4	Quercus agrifolia / Coast Live Oak	24" box
	ZEL VIL	5	Zelkova serrata `Village Green` / Village Green Sawleaf Zelkova	24" box

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING
SHRUBS					
	CAR ELI	9	Carpenteria californica 'Elizabeth' / Elizabeth Bush Anemone	5 gal	48" o.c.
	CIS SAL	51	Cistus salviifolius 'Prostratus' / Sageleaf Rockrose	5 gal	48" o.c.
	DIA REV	15	Dianella revoluta 'DR5000' / Little Rev Flax Lily	1 gal	24" o.c.
	NAN LEM	23	Nandina domestica `Lemon Lime` / Lemon Lime Nandina	1 gal	36" o.c.
	RHA MIN	31	Rhaphiolepis umbellata `Minor` / Dwarf Yedda Hawthorn	5 gal	48" o.c.
GRASSES					
	MUH RIG	30	Muhlenbergia rigens / Deer Grass	1 gal	48" o.c.
GROUND COVERS					
	ACA LOW	35	Acacia redolens `Low Boy` / Low Boy Bank Catclaw	1 gal	72" o.c.
	GRAVEL	1,069 sf	Gravel / 2" clean gravel over weed fabric	3" Depth	
	SYN TUR	1,509 sf	Synthetic Turf / AGL Majestic 70 Turf available from AGL Grass North, contact Rob Orlando, 916.240.4524, rob@aglgrass-north.com. Install synthetic turf with nailer boards and subgrade per manufacturers specifications and per Detail F, Sheet L3.2.	.	

PARKING LOT SHADE CALCULATIONS

TREE CODE	SHADE (SF)	QTY	HALF (H) 50%
QUE AGR	962	1	481
ZEL SER	962	3	1443
(E) TREE	1500	1	750

PARKING LOT AREA (SF)	4,300
SHADE REQUIRED (50%)	2,150
SHADE PROVIDED (SF)	2,674
SHADE PROVIDED	62%

THE PROJECT COMPLIES WITH THE CRITERIA OF THE CALIFORNIA MODEL WATER EFFICIENT LANDSCAPE ORDINANCE. THE GUIDELINES HAVE BEEN APPLIED FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN"

SIGNATURE 08/22/25 DATE

SCALE: 1" = 20'

0' 40' 20' 80'

NORTH

YAMASAKI LANDSCAPE ARCHITECTURE

1223 HIGH STREET
AUBURN, CALIFORNIA 95603
530.885.0040
www.yamasaki-la.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

These drawings are instruments of service and are the property of Yamasaki Landscape Architecture. All designs and other information on the drawings are for the use on the specified project and shall not be used otherwise without the express written permission of Yamasaki Landscape Architecture.

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LICENSED LANDSCAPE ARCHITECT THERESA V. ZARO 5726 8/22/25 STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
230217

DATE 08/22/2025

DRAWN BY: TVZ CHKED BY: TVZ

REVISIONS

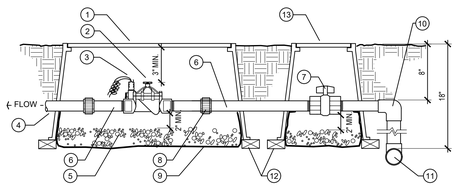
#	DESCRIPTION	DATE
	DSA SUBMISSION	

PLANTING PLAN

This document is for plan review only

L2.1

S:\Projects\Davis Elementary School\DWGs\CD\DE-PL.dwg\L2.1\22 Aug 2025 2:57 PM by Theresa Zaro



LEGEND

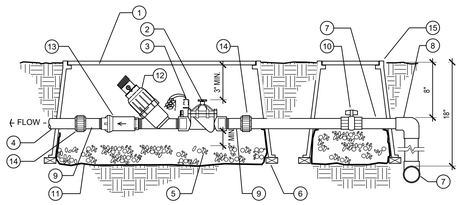
1. JUMBO RECTANGULAR VALVE BOX (15"x21")
2. REMOTE CONTROL VALVE
3. SOLENOID
4. PVC LATERAL
5. 6" PEA GRAVEL SUMP
6. PVC SCH 80 TOE NIPPLE, TYP.
7. PVC BALL VALVE
8. SCH. 80 PVC UNION, TYP.
9. FILTER FABRIC
10. SCH. 80 ST ELL
11. PVC MAIN LINE
12. STANDARD BRICK (3 ⅝"x2 ¼"x8")
13. 10" ROUND VALVE BOX

NOTES:

- USE TEFLON TAPE ON ALL THREADED MANIFOLD COMPONENTS
- USE A PVC BALL VALVE WITH EVERY VALVE OR MANIFOLD OF VALVES.
- LINE SUMP WITH FILTER FABRIC AND LEAVE EXPOSED ABOVE GRAVEL 2" MIN.

REMOTE CONTROL VALVE (A)

VLV-RMT-2 SCALE: N.T.S.



LEGEND

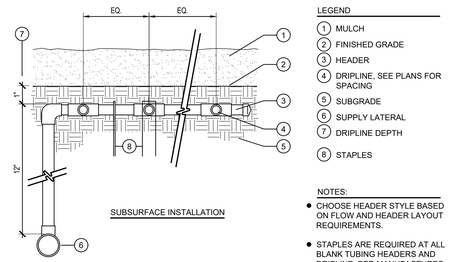
1. RECTANGULAR VALVE BOX
2. REMOTE CONTROL VALVE
3. SOLENOID
4. PVC LATERAL
5. 6" PEA GRAVEL SUMP
6. STANDARD BRICK (3 ⅝"x2 ¼"x8")
7. PVC MAINLINE
8. PVC ELL
9. SCH. 80 PVC TOE NIPPLE
10. PVC BALL VALVE
11. FILTER FABRIC
12. FILTER
13. PRESSURE REGULATOR
14. SCH. 80 PVC UNION, TYP.
15. 10" ROUND VALVE BOX

NOTES:

- ¾" - 1" VALVES, USE 15"X21" VALVE BOX
- 1 ½" VALVE, USE 17"X30" VALVE BOX
- USE TEFLON TAPE ON ALL THREADED MANIFOLD COMPONENTS
- USE A PVC BALL VALVE WITH EVERY VALVE
- LINE SUMP WITH FILTER FABRIC AND LEAVE EXPOSED OVER GRAVEL 2" MIN.

REMOTE CONTROL VALVE FOR DRIP (B)

VLV-PRVF-2 SCALE: N.T.S.



SUBSURFACE INSTALLATION

LEGEND

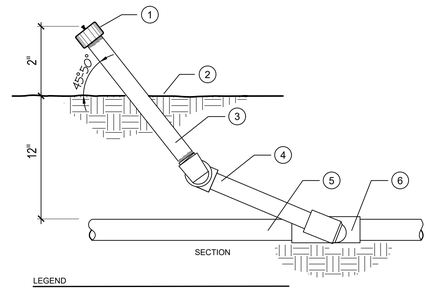
1. MULCH
2. FINISHED GRADE
3. HEADER
4. DRIPLINE, SEE PLANS FOR SPACING
5. SUBGRADE
6. SUPPLY LATERAL
7. DRIPLINE DEPTH
8. STAPLES

NOTES:

- CHOOSE HEADER STYLE BASED ON FLOW AND HEADER LAYOUT REQUIREMENTS.
- STAPLES ARE REQUIRED AT ALL BLANK TUBING HEADERS AND DRIPLINE. PER MANUFACTURES SPECIFICATIONS AND RECOMMENDATIONS.
- STAPLES ARE NOT REQUIRED ON PCV HEADERS.

SUBSURFACE HEADER & DRIPLINE INSTALLATION (C)

NTFM-DPTH SCALE: N.T.S.

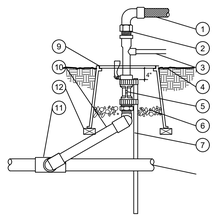


LEGEND

1. ADJUSTABLE FLOOD BUBBLER - INSTALLED AT AN ANGLE (45 DEGREES - 50 DEGREES)
2. FINISHED GRADE
3. SCH 80 RISER
4. 12" SWING JOINT MARLEX ASSEMBLY
5. LATERAL PIPE
6. LATERAL TEE

TREE BUBBLER (D)

BBLR-1 at angle SCALE: N.T.S.

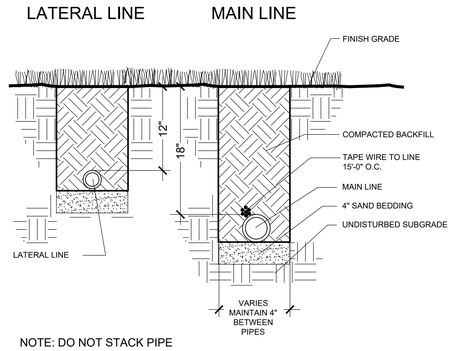


LEGEND

1. GARDEN HOSE
2. SWIVEL HOSE ELL
3. COUPLER
4. FINISHED GRADE
5. QUICK COUPLING VALVE
6. 6" MIN. PEA GRAVEL SUMP
7. #4 REBAR WITH HOSE CLAMPS
8. MAINLINE
9. 9" ROUND VALVE BOX
10. PVC SWING JOINT ASSEMBLY
11. TEE
12. STANDARD BRICK, 3 REQUIRED.

QUICK COUPLING VALVE (E)

VLV-QKCPL SCALE: N.T.S.

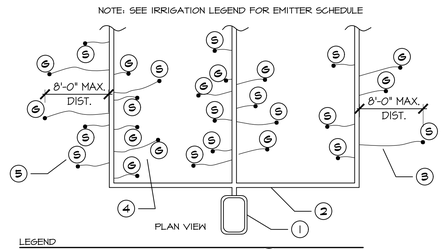


NOTE: DO NOT STACK PIPE ON TOP OF OTHER PIPE.

NOTE: REFER ALSO TO STRUCTURAL SHEET S0.11, DETAIL 1, FOR TRENCH CLEARANCE FROM STRUCTURES

IRRIGATION TRENCH (F)

TRNCH1 SCALE: N.T.S.

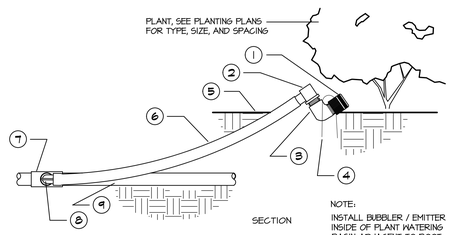


LEGEND

1. REMOTE CONTROL VALVE
2. PVC LATERAL PIPE - BURIED AT 12" DEPTH
3. HUNTER FLEXsg TUBING, MAX. DIST. 8'-0", MIN. DEPTH 4", MUST DAYLIGHT AT PLANT RING, TYP.
4. SEE PLANTING LEGEND FOR ON CENTER GROUND COVER SPACING, TYP.
5. SEE PLANTING PLANS AND LEGEND FOR ON CENTER SPACING AND/OR ACTUAL LOCATION FOR ALL SHRUBS
5. - SHRUB, TYP.
6. - GROUND COVER, TYP.

LOW FLOW BUBBLER LAYOUT (G)

LF BUBB LAY SCALE: N.T.S.



NOTE:
INSTALL BUBBLER / EMITTER INSIDE OF PLANT WATERING BASIN ADJACENT TO ROOT BALL.

USE A NON-HARDENING TEFLON PIPE SEALANT ON ALL THREADED CONNECTIONS

LEGEND

1. RAINBIRD PCT-10 ½" NPT BUBBLER
2. RAINBIRD SBE-050 SPIRAL BARB ELBOW
3. MARLEX M412-010 - STREET ELL
4. SECURE IN PLACE WITH TDS -050 TUBING STAKES.
5. FINISHED GRADE
6. RAINBIRD SPX-FLEX TUBING, MUST DAYLIGHT AT PLANT RING - TYP.
7. LATERAL TEE OR ELL
8. RAINBIRD SBE-050 SPIRAL BARB ELBOW
9. PVC LATERAL TEE

LOW FLOW BUBBLER (H)

BBLR-LF-RB SCALE: N.T.S.

SLEEVING SCHEDULE

PIPE SIZE OR # OF WIRES	REQUIRED SLEEVE SIZE
3/4", 1"	1-2" SLEEVE
1-1/4", 1-1/2", 2", 2-1/2"	1-4" SLEEVE
3", 4"	1-6" SLEEVE
6"	1-12" SLEEVE
1-25 CONTROL WIRES	1-2" SLEEVE
26-50 CONTROL WIRES	2-2" SLEEVES

1. ALL SLEEVES SHALL BE SCH 40 PVC.
2. ALL PIPE AND CONTROL WIRES SHALL BE INSTALLED IN SEPARATE SLEEVES UNDER PAVED AREAS, SIZE AS INDICATED ABOVE.
3. SLEEVES SHALL EXTEND AT LEAST 12" BEYOND THE EDGE OF THE PAVEMENT.

PIPE SIZING SCHEDULE

PVC TYPE	SCH 40	CLASS 315	CLASS 200
PIPE SIZE	MAX. GPM	MAX. GPM	MAX. GPM
3/4"	8	-	-
1"	13	-	-
1-1/4"	22	-	-
1-1/2"	30	-	-
2"	50	-	-
2-1/2"	-	73	-
3"	-	109	-
4"	-	-	200
6"	-	-	425

1. ALL MAINLINE PIPE SHALL BE MINIMUM 1".
2. ALL LATERAL LINE PIPE SHALL BE MINIMUM 3/4".
3. ALL PIPE 2" AND SMALLER SHALL BE SCH 40 PVC.
4. ALL PIPE 2-1/2" TO 3" SHALL BE GASKETED CLASS 315 PVC WITH MECHANICAL JOINT RESTRAINTS.
5. ALL PIPE 4" AND GREATER SHALL BE GASKETED CLASS 200 PVC WITH MECHANICAL JOINT RESTRAINTS AND DUCTILE IRON FITTINGS.

(I)

YAMASAKI LANDSCAPE ARCHITECTURE
1223 HIGH STREET
AUBURN, CALIFORNIA 95603
530.885.0040
www.yamasaki-la.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

These drawings are instruments of service and are the property of Yamasaki Landscape Architecture. All designs and other information on the drawings are for the use on the specified project and shall not be used otherwise without the express written permission of Yamasaki Landscape Architecture.

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LONGEST ZARO 3141 LANDSCAPE ARCHITECT 8/26 8/22/25 STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER 230217

DATE 08/22/2025

DRAWN BY: TVZ CHKED BY: TVZ

REVISIONS

#	DESCRIPTION	DATE

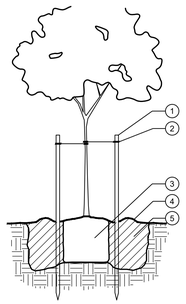
DSA SUBMISSION

IRRIGATION DETAILS

L3.1

This document is for plan review only

S:\Projects\Davis Elementary School\DWGs\CD\DE-DT.dwg\L3.1\22 Aug 2025 2:57 PM by Theresa Zaro

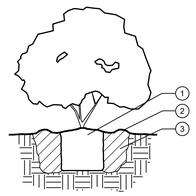


LEGEND
1. TREE STAKE
2. TREE TIE
3. ROOTBALL
4. SOIL RING
5. AMENDED BACKFILL

NOTES:
- WIDTH OF HOLE SHALL BE 3 TIMES THE WIDTH OF THE ROOTBALL
- DEPTH OF THE HOLE SHALL BE HEIGHT OF THE ROOTBALL WITH 1 1/2" OF TOP OF ROOTBALL HIGHER THAN SURROUNDING FINISH GRADE
- CUT TREE STAKES WITHIN 2" OF TIES
- WATER BACKFILL HEAVILY TO REDUCE AIR POCKETS
- REMOVE NURSERY STAKE PRIOR TO THE END OF THE MAINTENANCE PERIOD
- MAINTAIN A MINIMUM DISTANCE OF 18" BETWEEN EDGE OF LAWN AND TRUNK OF TREE(S)

TREE PLANTING AND STAKING A

PLT-TREE1 SCALE: N.T.S.

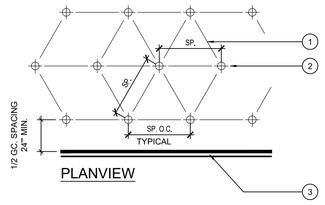


LEGEND
1. ROOTBALL
2. SOIL RING
3. AMENDED BACKFILL

NOTES:
- WIDTH OF HOLE SHALL BE 3 TIMES THE WIDTH OF THE ROOTBALL
- DEPTH OF THE HOLE SHALL BE DEPTH OF THE ROOTBALL WITH 1 1/2" OF TOP OF ROOTBALL HIGHER THAN SURROUNDING FINISH GRADE
- WATER BACKFILL HEAVILY TO REDUCE AIR POCKETS

SHRUB PLANTING B

PLT-SHRB1 SCALE: N.T.S.

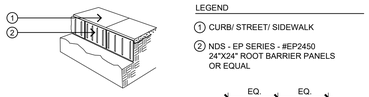


PLANVIEW

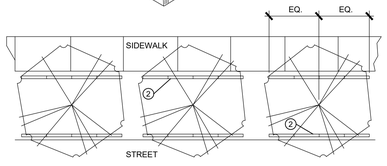
LEGEND
1. GROUNDCOVER SPACING PER PLANT SCHEDULE.
2. GROUNDCOVER CENTERS.
3. WALL, WALK OR EDGE OF GROUNDCOVER PLANTING.

GROUNDCOVER PLANTING C

PLT-GRDCVR SCALE: N.T.S.



LEGEND
1. CURB/ STREET/ SIDEWALK
2. NDS - EP SERIES - #EP2450 24"X24" ROOT BARRIER PANELS OR EQUAL



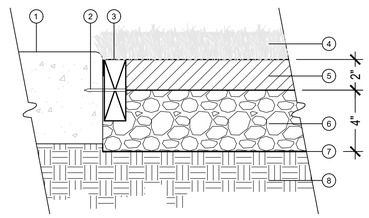
NOTES:
- INSTALL (4) 24" PANELS ON EACH SIDE OF TREE
- CENTER THE PANELS ON TRUNK OF TREE
- ROOT BARRIERS ARE REQUIRED IN ALL LOCATIONS WHERE TREES ARE PLACED CLOSER THAN 48" FROM CURBS, SIDEWALKS, CONCRETE OR ASPHALT, AND WHERE SHOWN ON PLANS.
- SET TOP OF ROOT BARRIER 4" BELOW TOP OF WALK OR CURB, OR 2" BELOW FINISHED GRADE, WHICHEVER IS LOWER.

TREE ROOT BARRIER E

PLT-BARR SCALE: N.T.S.

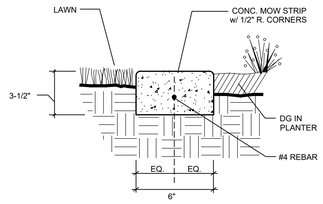
LEGEND
1. ADJACENT CONCRETE CURB OR PAVEMENT
2. 4" TAPCON #10 ANCHOR, 16" O.C.
3. 2"x4" COMPOSITE NAILER BOARD, SET 1/2" BELOW CONCRETE GRADE
4. SYNTHETIC TURF PER PLAN, WRAP AROUND BACK OF NAILER BOARD
5. LIMESTONE SCREENINGS, COMPACTED TO 95%
6. 3/4" CRUSH GRANULAR 'A' BASE
7. HEAVY DUTY PERMEABLE FILTER FABRIC
8. EXISTING SUBGRADE, UNDISTURBED OR COMPACTED TO 100%

NOTES:
1. INSTALL PER TURF MANUFACTURER'S SPECIFICATIONS.
2. SUBMIT CUTSHEETS FOR SYNTHETIC TURF, INFILL (IF APPLICABLE), BASE MATERIAL, NAILS AND ADHESIVE (IF APPLICABLE), AS WELL AS A 12" SQ. SAMPLE OF TURF TO OWNERS REPRESENTATIVE FOR APPROVAL PRIOR TO ORDERING MATERIALS.
3. REFER TO GRADING AND DRAINAGE PLANS BY OTHERS.



SYNTHETIC TURF W/ NAILER F

SYN TUR SCALE: N.T.S.



NOTES
- PLACE 1/2" WIDE PRE-FORMED FIBER EXPANSION JOINTS AT 15' O.C.
- IF EXTRUDED USE FIBER MESH. IF POURED IN PLACE USE #4 REBAR CONTINUOUS IN MIDDLE OF MOW STRIP
- MOW STRIP SHALL BE FLUSH WITH ADJOINING WALK OR CURB
- CONCRETE TO BE CLASS A

CONCRETE MOW STRIP G

CONC MS SCALE: N.T.S.

YAMASAKI LANDSCAPE ARCHITECTURE

1223 HIGH STREET
AUBURN, CALIFORNIA 95603
530.885.0040
www.yamasaki-la.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

These drawings are instruments of service and are the property of Yamasaki Landscape Architecture. All designs and other information on the drawings are for the use on the specified project and shall not be used otherwise without the express written permission of Yamasaki Landscape Architecture.

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

YAMASAKI

Irrigation Division
Irrigation Audit Services (CLIA)
LEED Certified Landscape Design
AB1881 Compliance Documentation

PROJECT INFORMATION

Project Name: Davis Elementary School Modernization **Date:** 08.22.2025

Project Contact:	Applicant:	Yamasaki Landscape Architecture
		1223 High Street, Ste. A-1, Auburn, CA 95603
		(530) 885-0040
	Contact:	Theresa Zaro
	Owner:	Lodi Unified School District
		5224 E Morada Lane
		Stockton, CA 95212
Project Address:		5224 E Morada Ave
		Stockton, CA 95212

Project Type:	New Public Project
Local Water Purveyor:	
Water Supply:	Potable Water

Total Landscape Area:	4,700 s.f.
Maximum Applied Water Allowance:	63,991 gallons
Estimated Total Water Use:	37,801 gallons

Document Check List:
- ☑ Project Information
- ☑ Water Efficient Landscape Worksheet
- ☐ Soil Management Report
- ☑ Landscape Design Plan
- ☑ Irrigation Design Plan
- ☐ Grading Design Plan

Applicant Signature — Date: 08.22.2025

"I agree to comply with the requirements of the water efficient landscape ordinance and submit a complete Landscape Documentation Package. "

YAMASAKI

Irrigation Division
Irrigation Audit Services (CLIA)
LEED Certified Landscape Design
AB1881 Compliance Documentation

Water Efficient Landscape Worksheet
Section A: Hydrozone Information Sheet

Zone or Valve #	Irrigation Method	Area (Sq.Ft.)	% of Landscape Area
1	Bubbler	240	5%
2	Drip	4,460	95%
		Total Area (Sq.Ft.)	Total (%)
Total Landscape Area		4,700	100%

YAMASAKI

Irrigation Division
Irrigation Audit Services (CLIA)
LEED Certified Landscape Design
AB 1881 Compliance Documentation

Water Efficient Landscape Worksheet
Section B. Water Budget Calculation

Maximum Applied Water Allowance (MAWA)

Project ETo City: Stockton

MAWA = (ETo) (0.62) [(0.45 x LA) + (0.55 x SLA)

Insert: Where:

MAWA = Maximum Applied Water Allowance (gallons per year)

48.80 ETo = Reference Evapotranspiration (inches per year)

0.45= ET Adjustment Factor (ETAF)(AB 1881 Dec 1, 2015)

4,700 LA = Landscape Area includes Special Landscape Area (Sq.Ft.)

0.62 = Conversion Factor (to gallons per Sq.Ft.)

0 SLA = Special Landscape Area (Sq.Ft.)

0.55= The additional ET Adjustment Factor for SLA (1.0-0.45=0.55)

MAWA = 48.8 (0.62) {(0.45x 4,700 + (0.55x 0)}

Maximum Applied Water Allowance: **63,991** Gal. / Yr

YAMASAKI

Irrigation Division
Irrigation Audit Services (CLIA)
LEED Certified Landscape Design
AB 1881 Compliance Documentation

Water Eficient Landscape Worksheet
Section B. Water Budget Calculation

Estimated Total Water Use (ETWU)

Valve / Hydrozone	Plant Water Use	Plant Factor (PF)	IE	ETAF (PF/IE)	Area (HA) (Sq.Ft.)	ETAF x Area	Estimated Total Water Use
1	Moderate (M)	0.5	0.81	0.62	240	148	4,482
2	Low (L)	0.2	0.81	0.25	4,460	1,101	33,319
Total				SUM	4,700	1,249	
							37,801
Special Landscape Areas							
	High (H)	0.8	0.75	1.00		0	0
				1.00		0	0
Total SLA				SUM	0	0	0

	Project Eto	48.8
ETWU =(ETo)(0.62)x(PF x HA + SLA)	Regular Landscape ETWU	37,801
IE	Average ETAF	0.27
	SLA ETWU	0
	Sitewide ETAF	0.27
Max Applied Water Allowance *63,991*	**Estimated Total Water Use**	37,801

LICENSED LANDSCAPE ARCHITECT THERESA V. ZARO 5769 8/22/25 STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: TVZ CHKED BY: TVZ

REVISIONS

#	DESCRIPTION	DATE

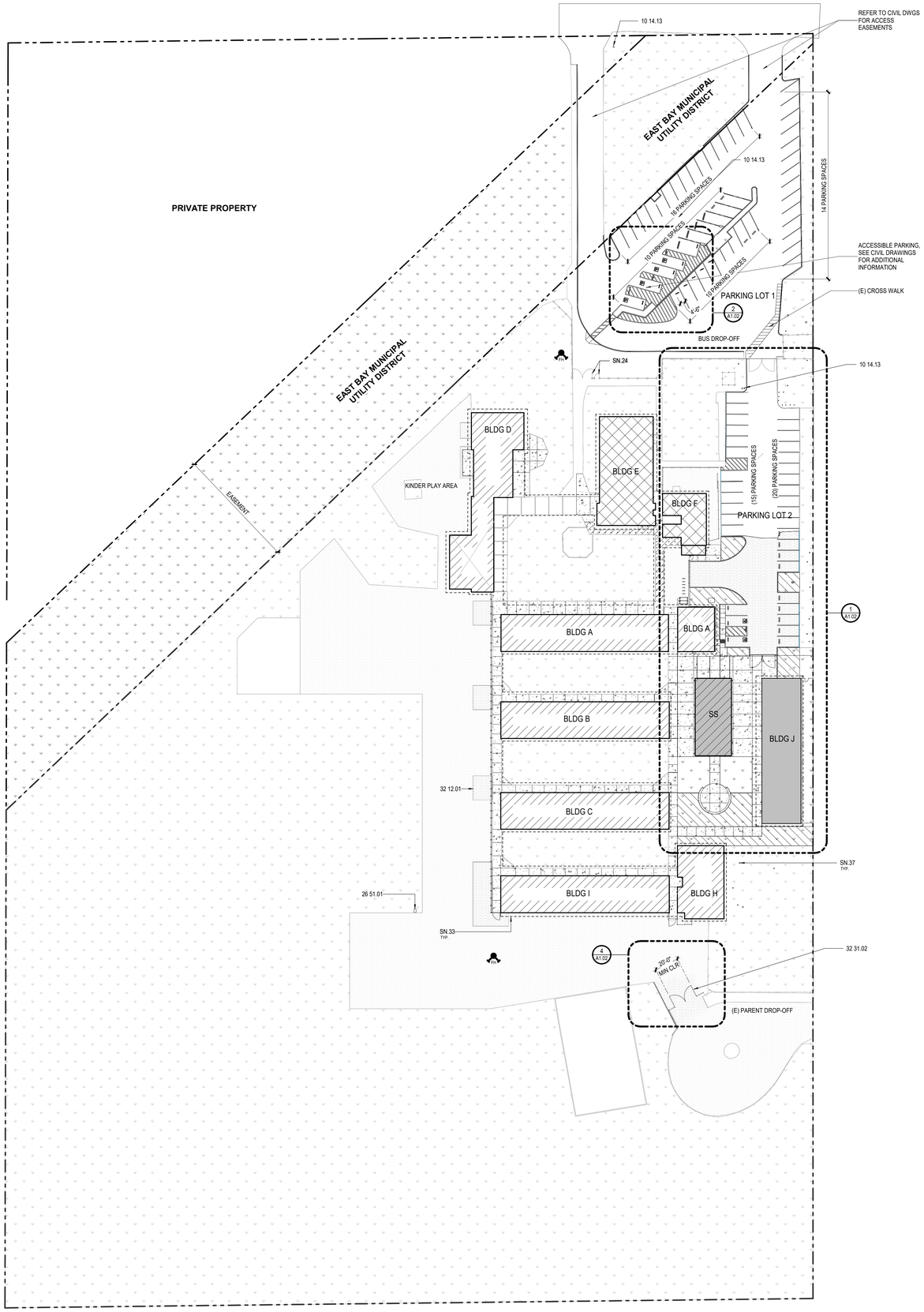
DSA SUBMISSION

PLANTING DETAILS

L3.2

This document is for plan review only

S:\Projects\Davis Elementary School\DWGs\CD\DE_DT.dwg\L3.3\22 Aug 2025 2:57 PM by: Theresa Zaro



SITE PLAN NOTES

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

SITE PLAN MATERIALS LEGEND

- PROPOSED CONCRETE PAVING RE: CIVIL DRAWINGS
- PROPOSED ASPHALT PAVING RE: CIVIL DRAWINGS
- EXISTING LANDSCAPED AREA
- EXISTING BUILDING, IN SCOPE
- NEW BUILDING
- PROPOSED SHADE STRUCTURE
- PROPERTY LINE
- NEW CHAIN LINK FENCE
- (E) CHAIN LINK FENCE
- PROPOSED LANDSCAPED AREA RE: LANDSCAPE DRAWINGS
- EVCS — ELECTRIC VEHICLE (EV) CHARGING STATION STALL
- EVCA — ELECTRIC VEHICLE STATION CAPABLE STALL
- EXISTING BUILDING, NOT IN SCOPE

SHEETNOTES

SN.24	EXISTING GATE TO REMAIN
SN.33	EXISTING WALKWAY CANOPY TO REMAIN, ROOF OVERHANG ABOVE
SN.37	EXISTING TREE TO REMAIN. REFER TO CIVIL DRAWINGS

KEYNOTES

10 14.13	TOW AWAY SIGNAGE, REFER TO CIVIL
26 51.01	LIGHTING FIXTURE
32 12.01	ASPHALT PAVING
32 31.02	CHAIN LINK SWING GATE

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

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

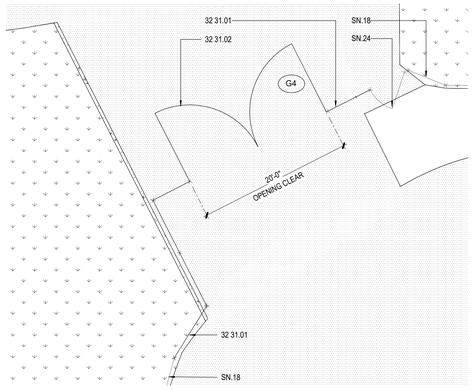
DSA SUBMISSION

SITE PLAN

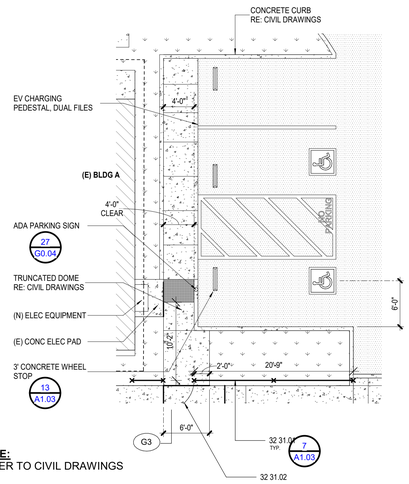
This document is for plan review only

A1.01

A1.02 - ENLARGED SITE PLAN

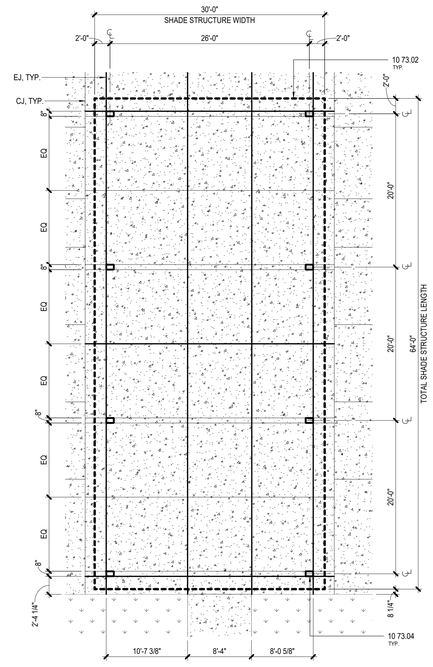


4 ENLARGED SITE PLAN
SCALE: 1/8" = 1'-0"



NOTE:
REFER TO CIVIL DRAWINGS

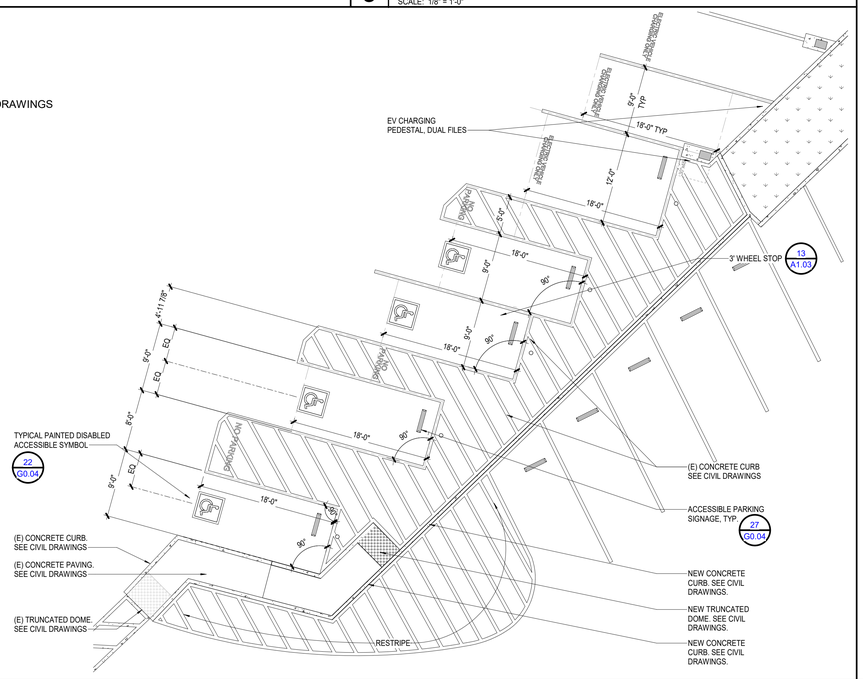
3 ENLARGED SITE PLAN
SCALE: 1/8" = 1'-0"



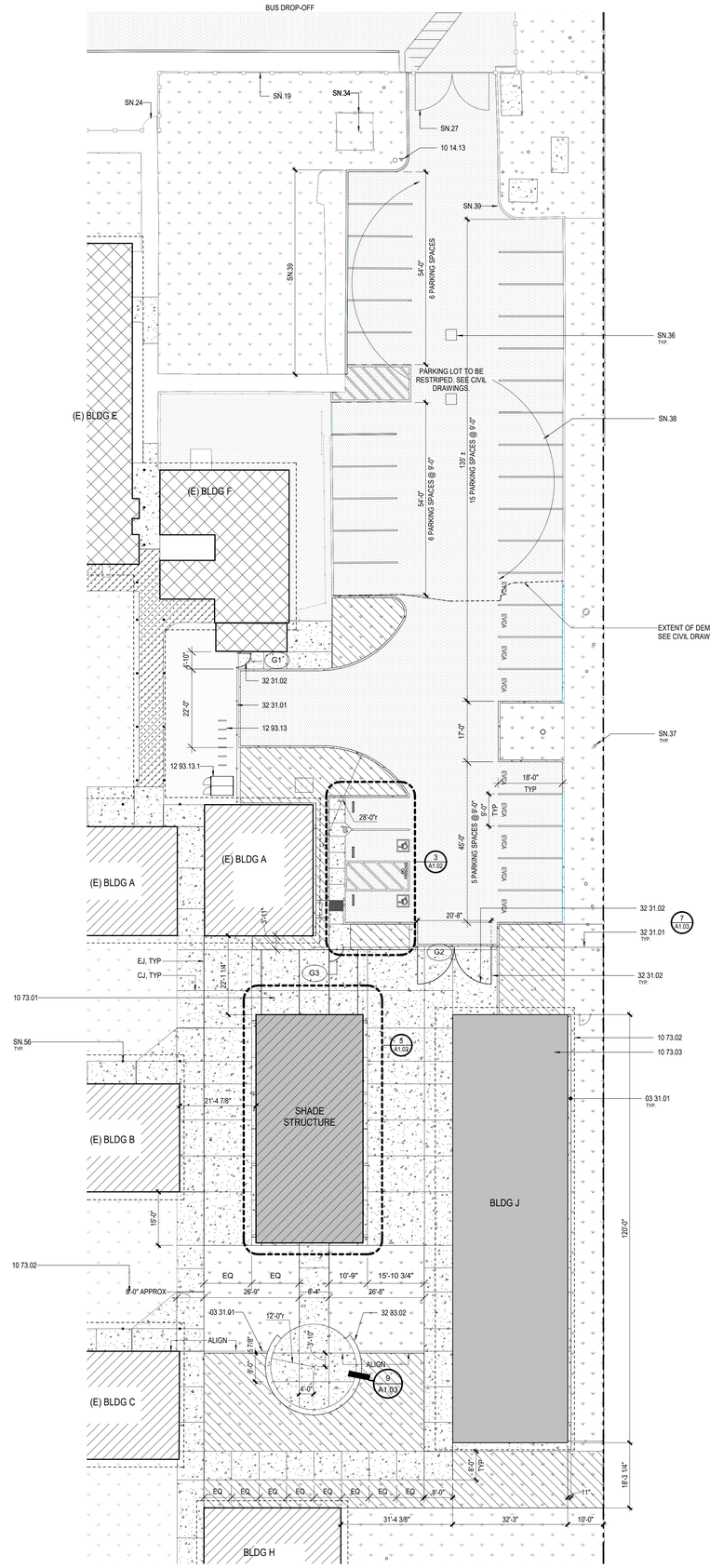
NOTE:
1. REFER TO PC SHADE STRUCTURE #04-122188 FOR EXTERIOR ELEVATIONS
2. SIDE ELEVATION OF THE SHADE STRUCTURE, SEE 21 / A1.03

5 ENLARGED SHADE STRUCTURE PLAN
SCALE: 1/8" = 1'-0"

NOTE:
REFER TO CIVIL DRAWINGS



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



1 ENLARGED SITE PLAN
SCALE: 1/16" = 1'-0"

SITE PLAN NOTES

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

SITE PLAN MATERIALS LEGEND

- PROPOSED CONCRETE PAVING RE: CIVIL DRAWINGS
- PROPOSED ASPHALT PAVING RE: CIVIL DRAWINGS
- EXISTING LANDSCAPED AREA
- EXISTING BUILDING, IN SCOPE
- NEW BUILDING
- PROPOSED SHADE STRUCTURE
- PROPERTY LINE
- NEW CHAIN LINK FENCE
- (E) CHAIN LINK FENCE
- PROPOSED LANDSCAPED AREA RE: LANDSCAPE DRAWINGS
- EVCS — ELECTRIC VEHICLE (EV) CHARGING STATION STALL
- EVCA — ELECTRIC VEHICLE STATION CAPABLE STALL
- EXISTING BUILDING, NOT IN SCOPE

SHEETNOTES

SN.18	EXISTING CHAIN LINK FENCE TO REMAIN. PROTECT IN PLACE
SN.19	EXISTING DECORATIVE FENCE TO REMAIN. PROTECT IN PLACE
SN.24	EXISTING GATE TO REMAIN
SN.27	EXISTING TRAFFIC CONTROL GATE W/ KNOX BOX TO REMAIN
SN.34	EXISTING WELL TANK & ENCLOSURE W/ GATE TO REMAIN
SN.36	EXISTING DRAIN TO REMAIN. REFER TO CIVIL DRAWINGS
SN.37	EXISTING TREE TO REMAIN. REFER TO CIVIL DRAWINGS
SN.38	EXISTING OAK TREE TO REMAIN AND PROTECT DURING DEMOLITION AND CONSTRUCTION
SN.39	EXISTING CURB TO REMAIN
SN.56	EXISTING STL COLUMN TO REMAIN

KEYNOTES

03 31.01	CONCRETE CURB
10 14.13	TOW AWAY SIGNAGE, REFER TO CIVIL
10 73.01	PC SHADE STRUCTURE
10 73.02	LINE OF OVERHANG ABOVE
10 73.03	MODULAR CLASSROOM BUILDING
10 73.04	SHADE STRUCTURE COLUMN
12 93.13	BICYCLE RACK
12 93.13.1	BICYCLE LOCKER
32 31.01	CHAIN LINK FENCING
32 31.02	CHAIN LINK SWING GATE
32 33.02	CONCRETE SEAT WALL

GATE SCHEDULE

MARK	PAIR/SING	WIDTH	HEIGHT	DETAIL	
G1	SING	4'-0"	7'-0"	7/A1.03	GATE HARDWARE NO. 6
G2	PAIR	20'-8"	7'-0"	2/A1.03	
G3	SING	4'-0"	7'-0"	7/A1.03	GATE HARDWARE NO. 6
G4	PAIR	20'-0"	7'-0"	2/A1.03	

SITE PLAN MATERIALS LEGEND

ALTERNATIVE PROPOSED CONCRETE
REFER TO CIVIL

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

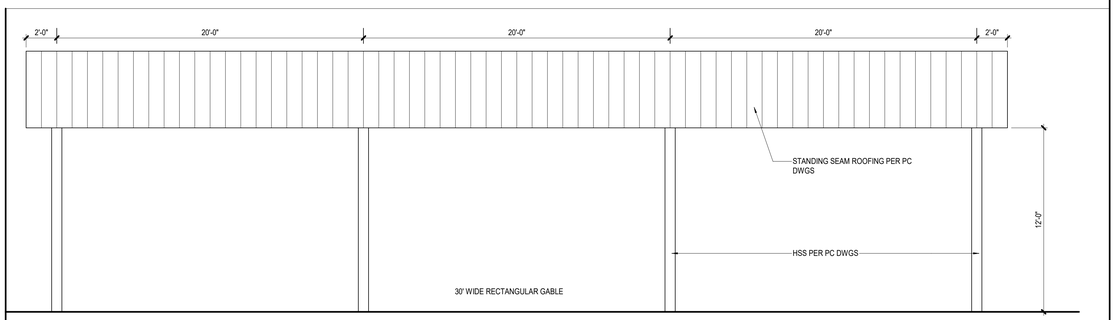
DSA SUBMISSION

ENLARGED SITE PLAN

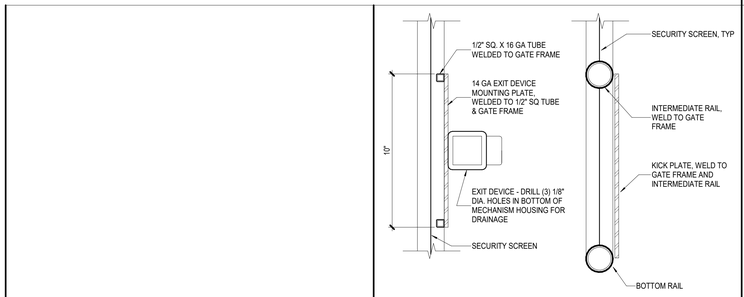
A1.02

This document is for plan review only

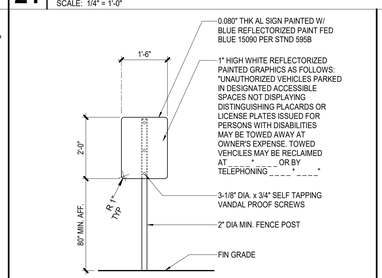
D:_Revit\Local\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/24/2026 12:56:37 PM



21 SHADE STRUCTURE ELEVATION
SCALE: 1/4" = 1'-0"

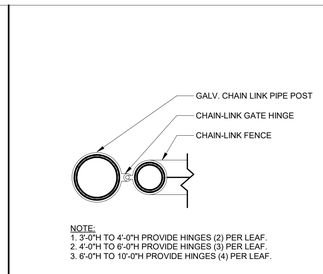


16 MOUNTING PLATE / KICK PLATE
SCALE: 3" = 1'-0"



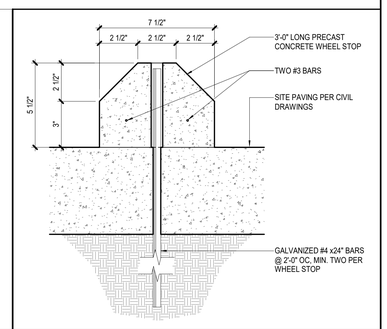
NOTE:
1. VERIFY ALL INFORMATION PRIOR TO FABRICATION
* BLANK INFORMATION TO BE GIVENBY OWNER AND MADE AS A PERMANENT PART OF THE SIGN.

15 PARKING SIGN
SCALE: 1/2" = 1'-0"

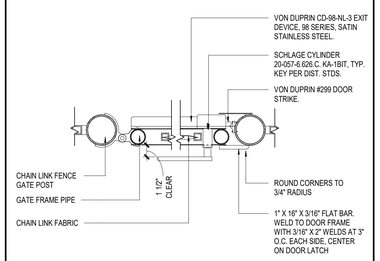


NOTE:
1. 3'-0"H TO 4'-0"H PROVIDE HINGES (2) PER LEAF.
2. 4'-0"H TO 6'-0"H PROVIDE HINGES (3) PER LEAF.
3. 6'-0"H TO 10'-0"H PROVIDE HINGES (4) PER LEAF.

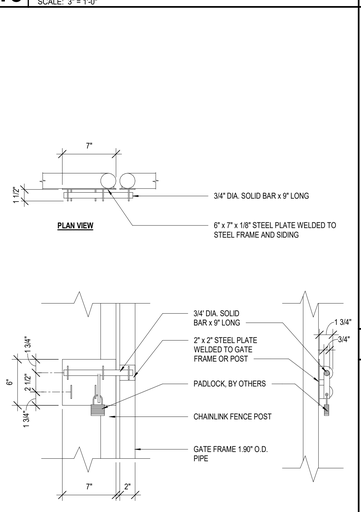
14 CHAIN LINK GATE JAMB AT HINGE
SCALE: 3" = 1'-0"



13 CONCRETE WHEEL STOP
SCALE: 3" = 1'-0"

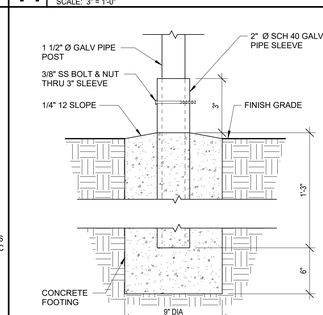


11 CHAIN LINK SINGLE GATE HARDWARE
SCALE: 1 1/2" = 1'-0"



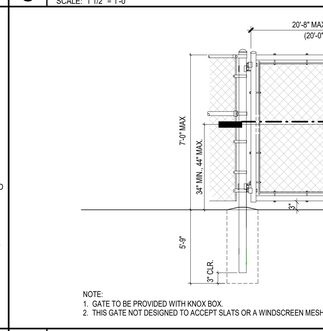
NOTE:
-CONTRACTOR TO WELD ALL CONNECTIONS AND GRIND SMOOTH
-ALL STEEL TO BE HOT DIP GALV. POST FABRICATION AND PAINTED PER SPEC'S
-FABRICATE GATE DOOR WITH 1" UNDERCUT MIN., 3" MAX.
-DOOR TO BE 5 LB. MAX. OPERATING PRESSURE

4 CHAIN LINK SLIDE BOLT DETAIL
SCALE: 1 1/2" = 1'-0"

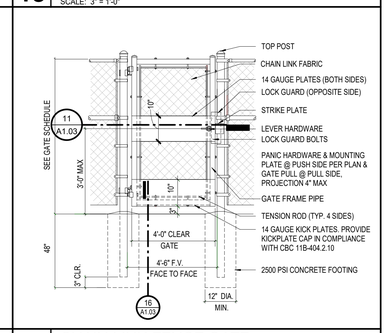


NOTE:
1. PROVIDE EXPANSION JOINTS @ 20' - 0" O.C.
2. SECTION A-A GROOVES TO RUN FULL DEPTH OF WALL
3. CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED FOR ITEMS GIVEN IN CBC SECTION 1705A.3.3.2 SUBJECT TO THE REQUIREMENTS AND LIMITATIONS IN THAT SECTION
4. TESTING OF REINFORCING BARS IS NOT REQUIRED FOR ITEMS GIVEN IN CBC SECTION 1910A.2 SUBJECT TO THE REQUIREMENTS AND LIMITATIONS IN THAT SECTION

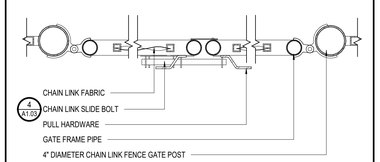
9 CONCRETE CURB - BENCH
SCALE: 1" = 1'-0"



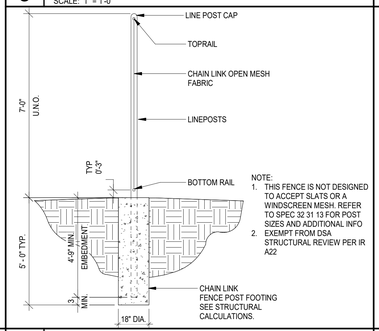
8 SIGN SLEEVE
SCALE: 1 1/2" = 1'-0"



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



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



NOTE:
1. THIS FENCE IS NOT DESIGNED TO ACCEPT SLATS OR A WINDSCREEN MESH. REFER TO SPEC 32 31 13 FOR POST SIZES AND ADDITIONAL INFO
2. EXEMPT FROM DSA STRUCTURAL REVIEW PER IR A22

3 CHAIN LINK FENCE SECTION
SCALE: 1/2" = 1'-0"

NOTE:
1. GATE TO BE PROVIDED WITH KNOX BOX.
2. THIS GATE NOT DESIGNED TO ACCEPT SLATS OR A WINDSCREEN MESH

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

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
EXP. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

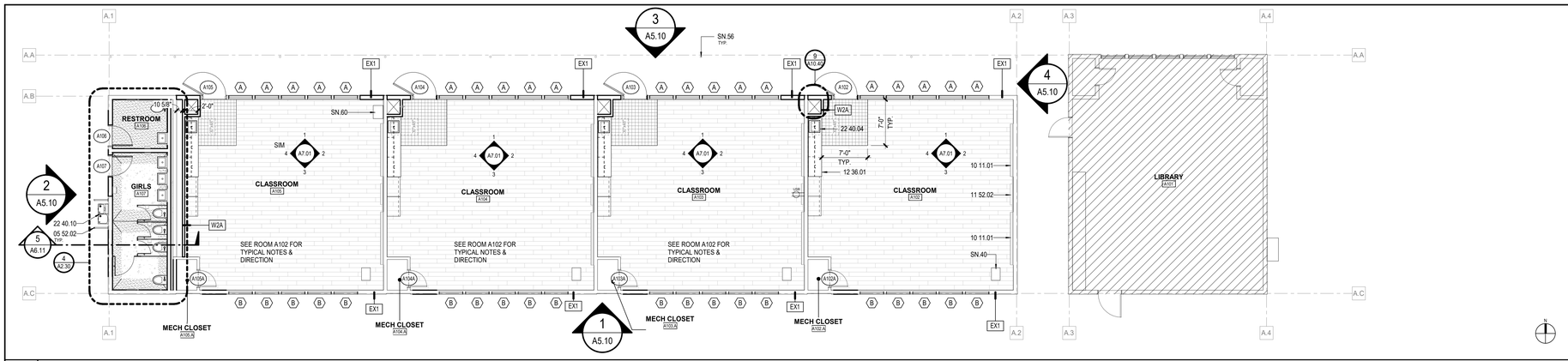
#	DESCRIPTION	DATE

DSA SUBMISSION

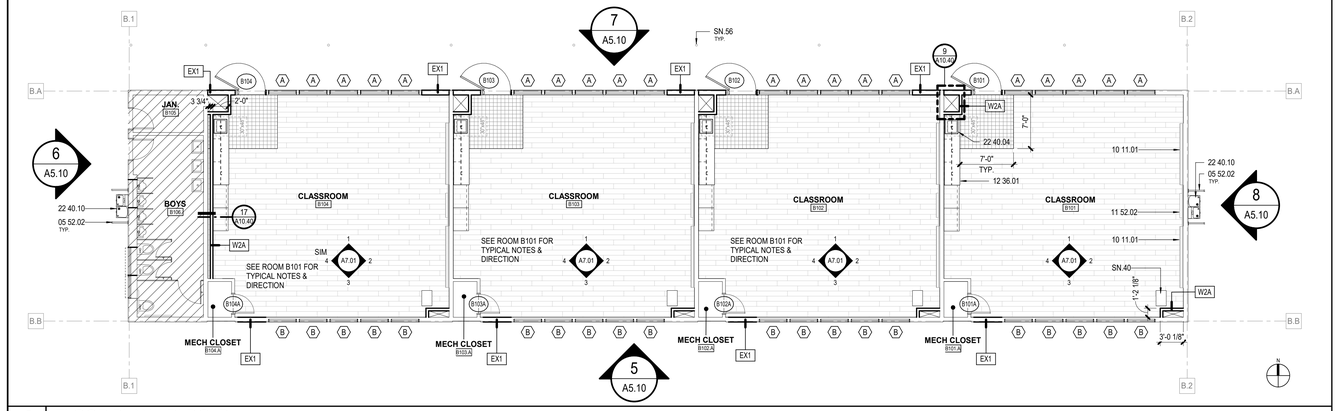
SITE DETAILS

This document is for plan review only

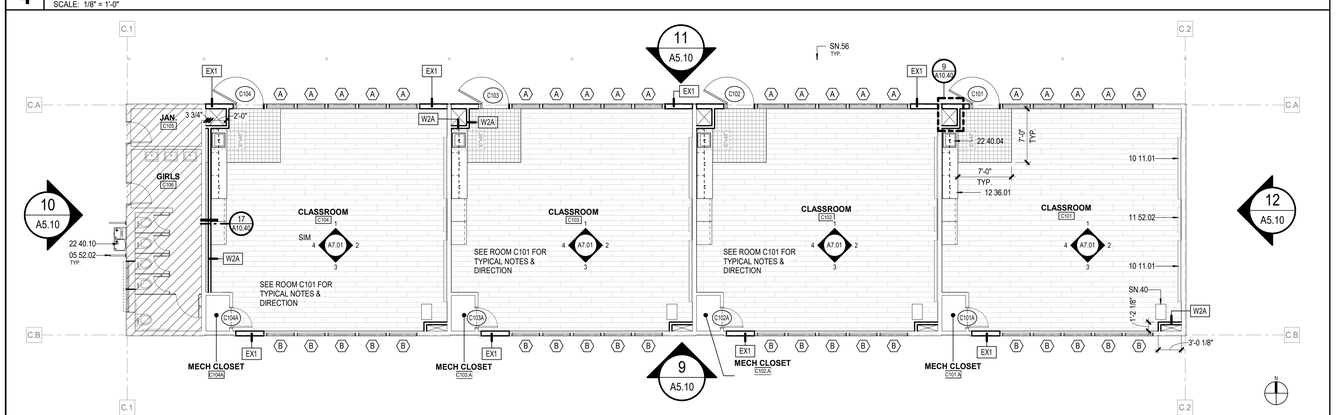
A1.03



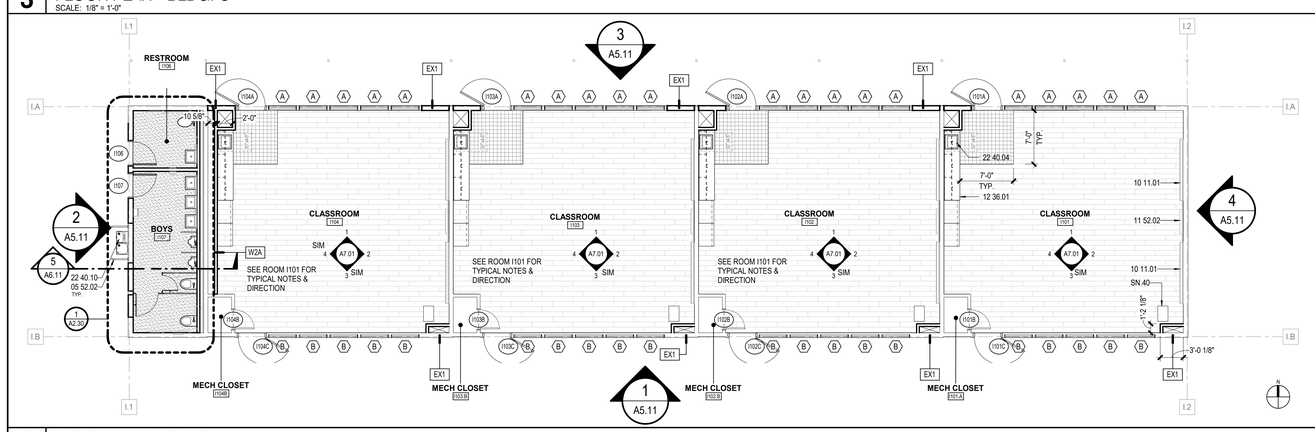
5 FLOOR PLAN - BLDG. A
SCALE: 1/8" = 1'-0"



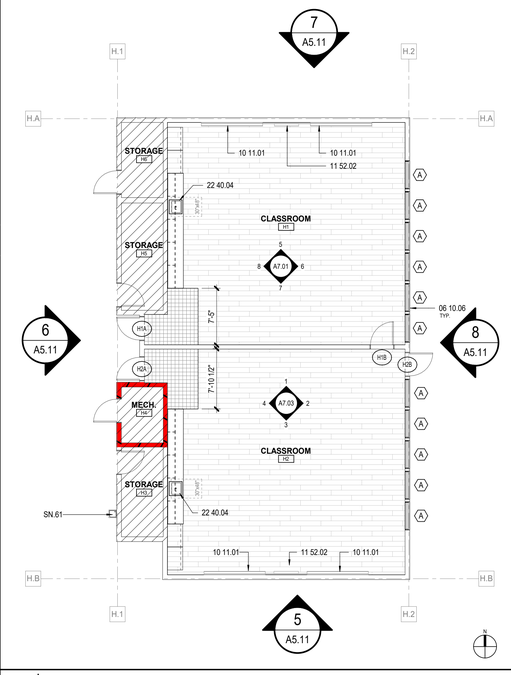
4 FLOOR PLAN - BLDG. B
SCALE: 1/8" = 1'-0"



3 FLOOR PLAN - BLDG. C
SCALE: 1/8" = 1'-0"



2 FLOOR PLAN - BLDG. I
SCALE: 1/8" = 1'-0"



1 FLOOR PLAN - BLDG. H
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITION BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A7.00 SERIES SHEETS
9. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
10. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
11. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
12. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
13. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
14. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
15. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
16. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
17. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
18. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

FLOOR PLAN LEGEND

ROOM NAME / 106 — ROOM NAME & NUMBER

S4A.2 — NEW PARTITION OR EXTERIOR WALL
REFER TO SHEET **G0.05** FOR PARTITION TYPES.
REFER TO ELEVATIONS FOR TYPICAL WALL SECTIONS.

EXISTING PARTITION

EXISTING 1 HR RATED WALL

108B — DOOR DESIGNATION
REFER TO SHEET **A9.02** FOR DOOR SCHEDULE

A — WINDOW DESIGNATION
REFER TO SHEET **A9.01** FOR ELEVATION TYPE

NOT IN CONTRACT

FLOOR FINISH MATERIALS LEGEND

- LVT-1, LUXURY VINYL TILE
- EPX-1 EPOXY FLOORING
- WOM-1 WALK OFF MAT

KEYNOTES

05 52.02	DRINKING FOUNTAIN GUARDRAIL
06 10.06	FRAMING INFILL, WOOD STUD w/ CEMENT PLASTER (BELOW WINDOW)
10 11.01	MARKERBOARD
11 52.02	SMARTBOARD
12 36.01	CASEWORK W/ PLASTIC LAMINATE COUNTERTOP
22 40.04	SINK, DA
22 40.10	DRINKING FOUNTAIN, WATER BOTTLE FILLER

SHEETNOTES

SN.40	EXISTING ACCESS DOOR TO CRAWL SPACE
SN.56	EXISTING STL COLUMN TO REMAIN
SN.60	EXISTING IDF NEW LOCATION. SEE ELECTRICAL DRAWINGS
SN.61	EXISTING DRINKING FOUNTAIN TO REMAIN

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

G H J
D E F
A B C

KEY PLAN — PLAN NORTH / TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

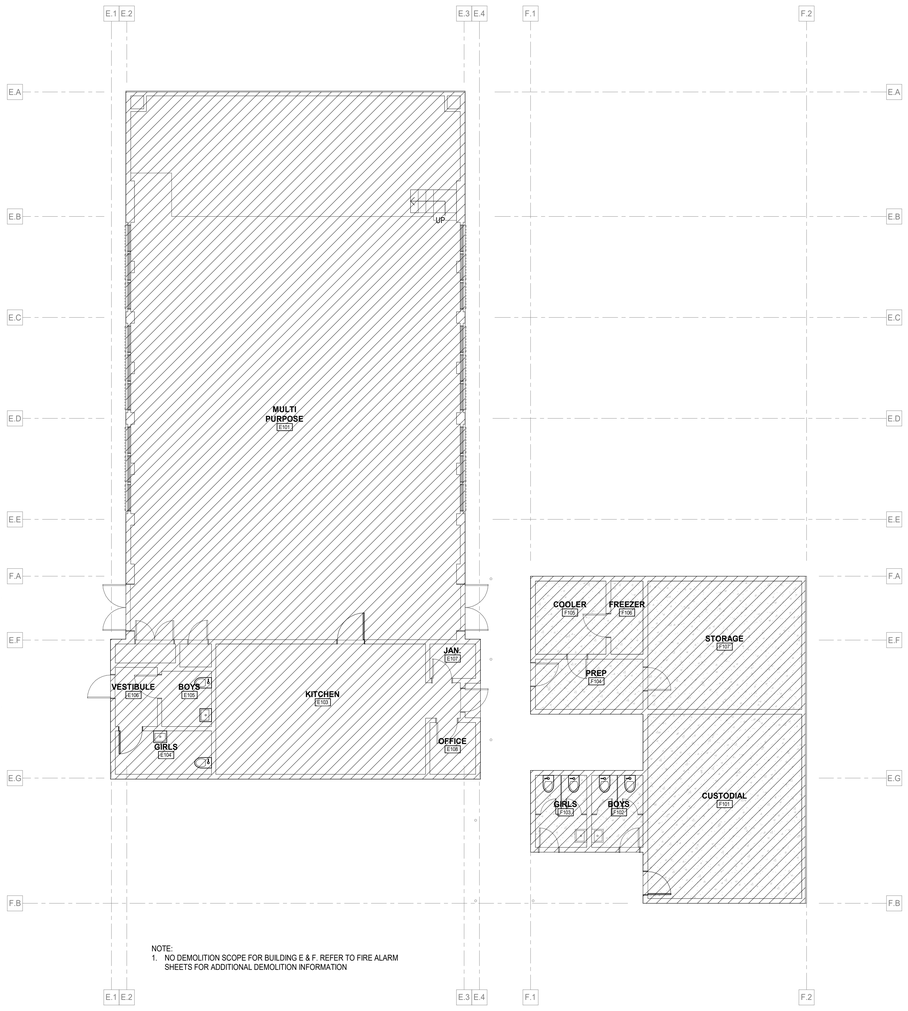
#	DESCRIPTION	DATE

DSA SUBMISSION

This document is for plan review only

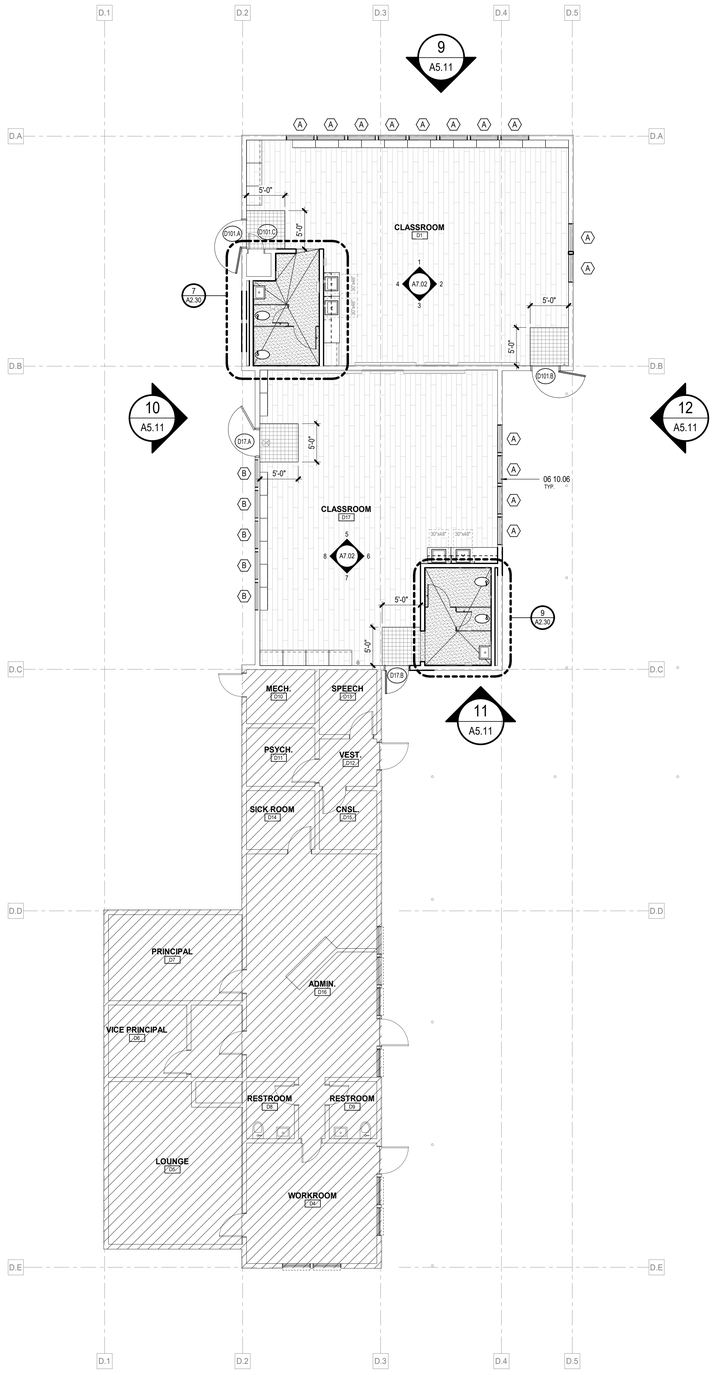
FLOOR PLANS - BLDGS A,B,C,H,I

A2.10



NOTE:
1. NO DEMOLITION SCOPE FOR BUILDING E & F. REFER TO FIRE ALARM SHEETS FOR ADDITIONAL DEMOLITION INFORMATION

2 FLOOR PLAN - EXISTING BUILDING E & F
SCALE: 1/8" = 1'-0"



1 FLOOR PLAN - BUILDING D
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITION BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A7.00 SERIES SHEETS
9. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
10. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
11. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
12. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
13. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
14. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
15. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
16. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
17. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
18. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

FLOOR PLAN LEGEND

ROOM NAME
106
ROOM NAME & NUMBER

S4A.2
NEW PARTITION OR EXTERIOR WALL
REFER TO SHEET **G0.05** FOR PARTITION TYPES.
REFER TO ELEVATIONS FOR TYPICAL WALL SECTIONS.

EXISTING PARTITION

EXISTING 1 HR RATED WALL

1068
DOOR DESIGNATION
REFER TO SHEET **A9.02** FOR DOOR SCHEDULE

A
WINDOW DESIGNATION
REFER TO SHEET **A9.01** FOR ELEVATION TYPE

NOT IN CONTRACT

FLOOR FINISH MATERIALS LEGEND

LVT-1, LUXURY VINYL TILE

EPX-1 EPOXY FLOORING

WOM-1 WALK OFF MAT

KEYNOTES

06 10.06 FRAMING INFILL, WOOD STUD w/ CEMENT PLASTER (BELOW WINDOW)

SHEETNOTES

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

G H J
D E F
A B C

KEY PLAN
PLAN NORTH
TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-32500
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

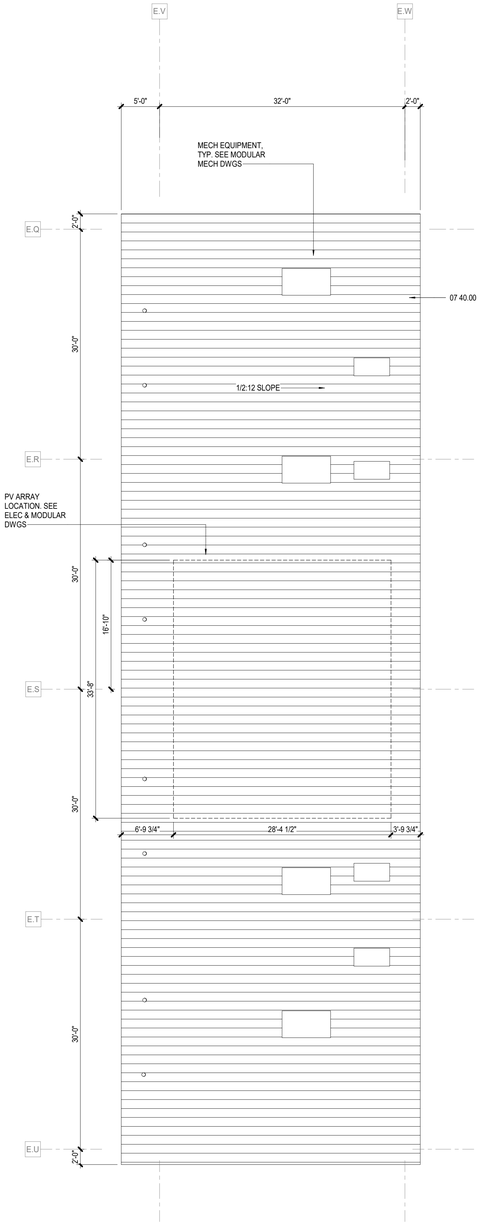
DSA SUBMISSION

FLOOR PLANS - BLDGS D, E & F

A2.11

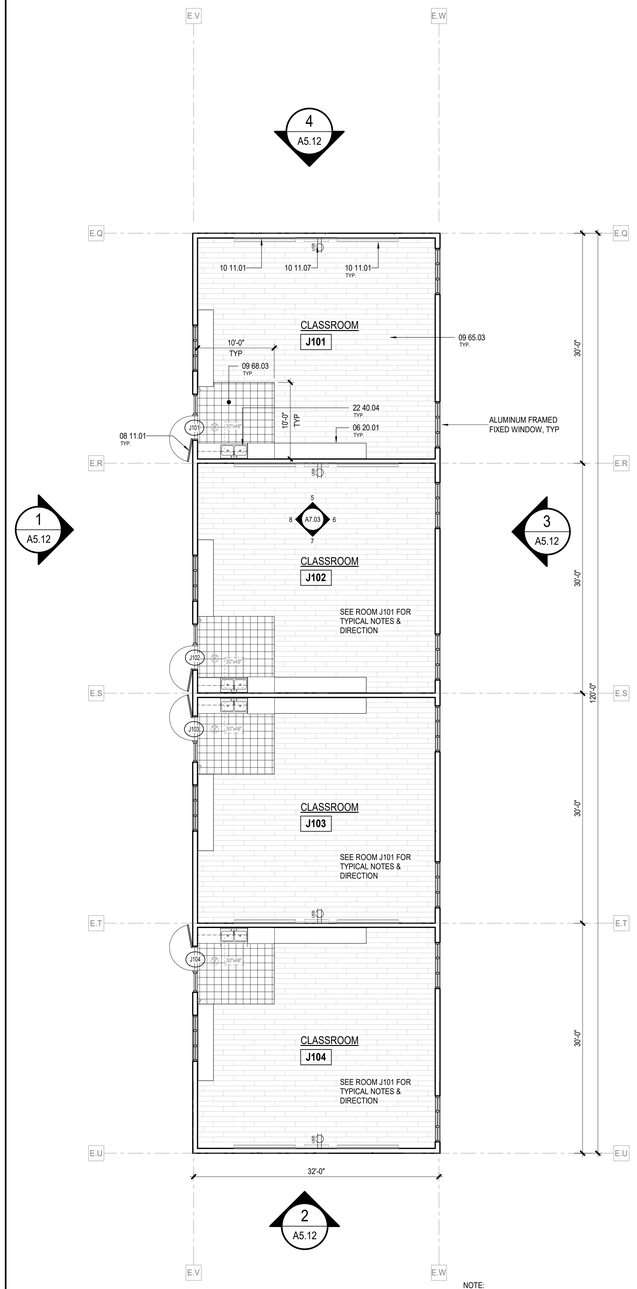
This document is for plan review only

A2.12 - FLOOR PLANS & ROOF PLANS - BLDG J



NOTE:
1. FOR REFERENCE ONLY. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.

2 ROOF PLAN - PROPOSED MODULAR BUILDING J
SCALE: 1/8" = 1'-0"



NOTE:
1. FOR REFERENCE ONLY. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.

1 FLOOR PLAN - PROPOSED MODULAR BUILDING J
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITION BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A7.00 SERIES SHEETS
9. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
10. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
11. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
12. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
13. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
14. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
15. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
16. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
17. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
18. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

FLOOR PLAN LEGEND

- ROOM NAME & NUMBER (ROOM NAME / 106)
- NEW PARTITION OR EXTERIOR WALL. REFER TO SHEET **G0.05** FOR PARTITION TYPES. REFER TO ELEVATIONS FOR TYPICAL WALL SECTIONS. (S4A.2)
- EXISTING PARTITION
- EXISTING 1 HR RATED WALL
- DOOR DESIGNATION (108) REFER TO SHEET **A9.02** FOR DOOR SCHEDULE
- WINDOW DESIGNATION (A) REFER TO SHEET **A9.01** FOR ELEVATION TYPE
- NOT IN CONTRACT

FLOOR FINISH MATERIALS LEGEND

- LVT-1, LUXURY VINYL TILE
- EPX-1 EPOXY FLOORING
- WOM-1 WALK OFF MAT

KEYNOTES

06 20.01	PLASTIC LANIMATE CASEWORK
07 40.00	STANDING SEAM METAL ROOF SYSTEM
08 11.01	HOLLOW METAL DOOR AND FRAME AS SCHEDULED
09 65.03	RESILIENT FLOORING, LVT
09 68.03	WALK OFF MATT
10 11.01	MARKERBOARD
10 11.07	SMARTBOARD
22 40.04	SINK, DA

SHEETNOTES

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

G	H	J
D	E	F
A	B	C

KEY PLAN — PLAN NORTH / TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-33550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

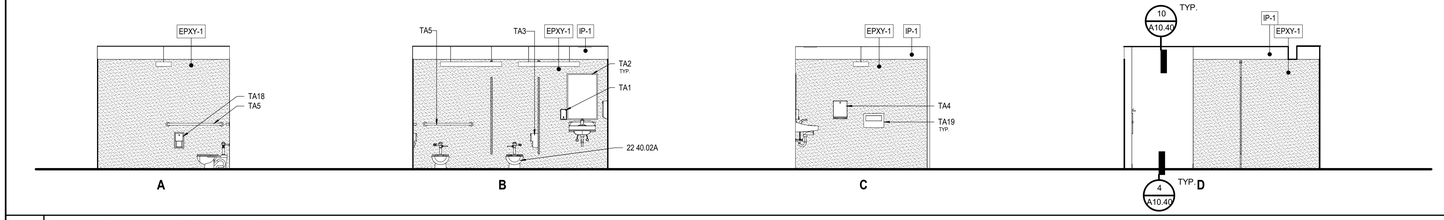
DSA SUBMISSION

FLOOR PLANS & ROOF PLANS - BLDG J

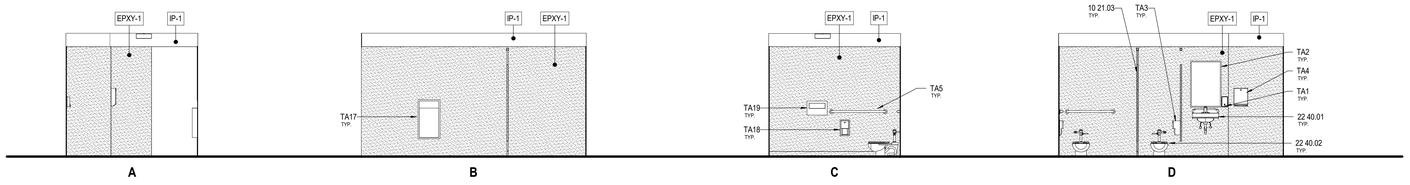
This document is for plan review only

A2.12

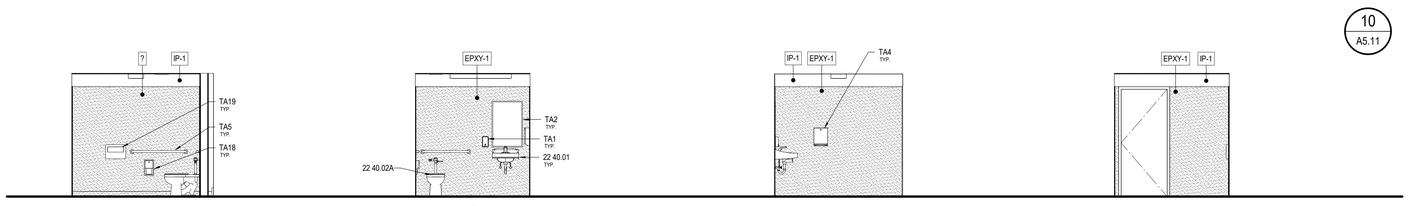
D:_RevitLocal\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/25/2026 2:19:24 PM



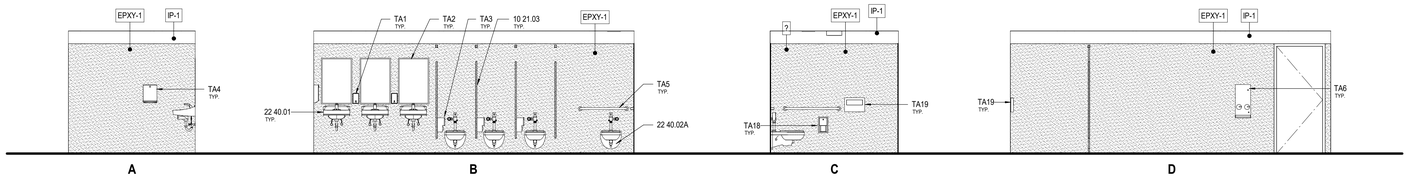
10 INTERIOR ELEVATIONS - A109
SCALE: 1/4" = 1'-0"



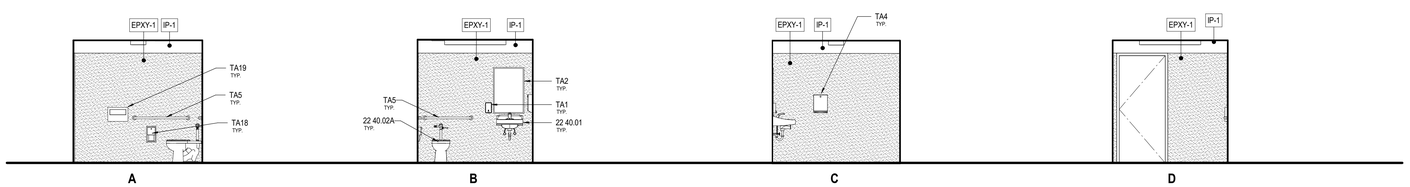
8 INTERIOR ELEVATIONS - A108
SCALE: 1/4" = 1'-0"



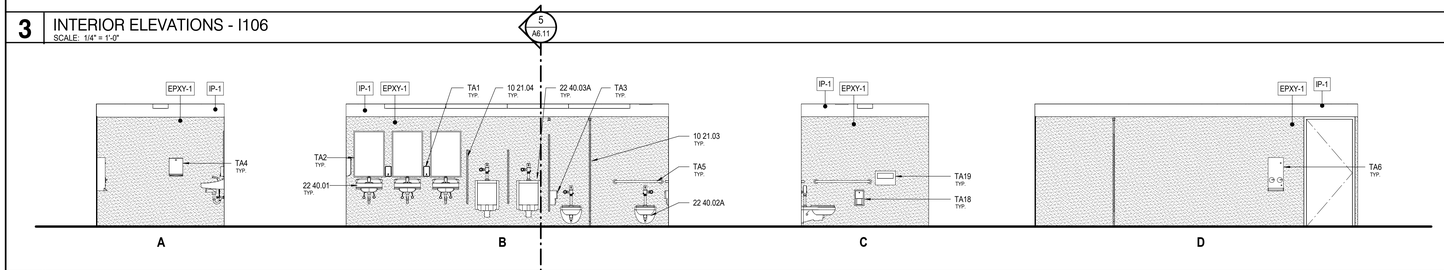
6 INTERIOR ELEVATION - A106
SCALE: 1/4" = 1'-0"



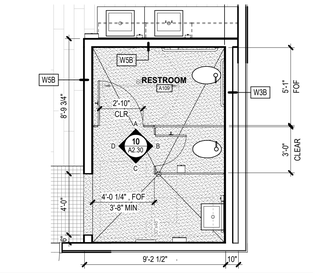
5 INTERIOR ELEVATION - A106
SCALE: 1/4" = 1'-0"



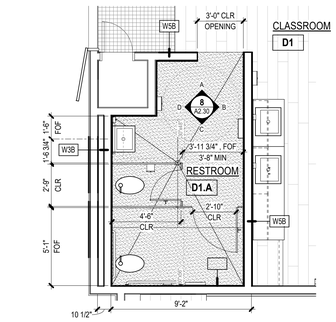
3 INTERIOR ELEVATIONS - I106
SCALE: 1/4" = 1'-0"



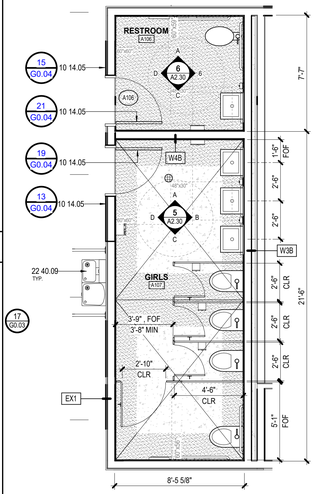
2 INTERIOR ELEVATIONS - I107
SCALE: 1/4" = 1'-0"



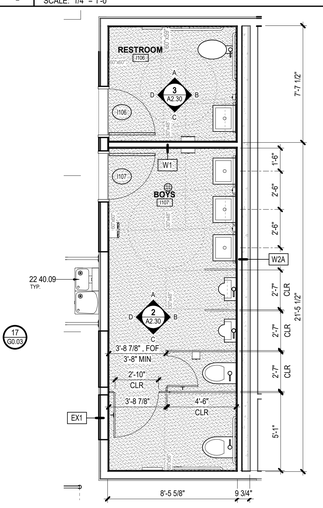
9 ENLARGED FLOOR PLAN - BLDG. D
SCALE: 1/4" = 1'-0"



7 ENLARGED FLOOR PLAN - BLDG. D
SCALE: 1/4" = 1'-0"



4 ENLARGED FLOOR PLAN - BLDG. A
SCALE: 1/4" = 1'-0"



1 ENLARGED FLOOR PLAN - BLDG. I
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH. IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. SLOPE FLOOR IN WET AREAS TO FLOOR DRAINS A MINIMUM OF 1% AND SHALL NOT EXCEED 1/8" PER FOOT. ARROWS INDICATE SLOPE DIRECTION.
3. DIMENSIONS NOTED AS "CLR" OR REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITION BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDIN WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. FOR ACCESSIBLE STANDARD FOR TOILET FACILITIES MOUNTING HEIGHT LOCATIONS AND DETAILS. RE: 10 / G0.03
7. FOR ACCESSIBLE STANDARDS FOR PRE-K/KINDERGARTEN MOUNTING HEIGHT LOCATIONS AND DETAILS. RE: 12 / G0.03
8. ALL EPOXY WALL FINISH TO TERMINATE @ 7'-2" AFF U.N.O.
9. REFER TO SHEET **G0.05** FOR INTERIOR PARTITION TYPES
10. REFER TO SHEET **G0.03** FOR ACCESSIBILITY GUIDELINES
11. PATCH AND REPAIR SLAB AT PLUMBING LOCATIONS NO LONGER UTILIZED AND AT LOCATIONS WHERE CONCRETE CURBS WERE REMOVED.
12. REFER TO SHEET **A10.40** FOR BLOCKING DETAILS.

FLOOR PLAN LEGEND

- ROOM NAME & NUMBER — ROOM NAME: 106
- NEW PARTITION OR EXTERIOR WALL — REFER TO SHEET **G0.50** FOR PARTITION TYPES. REFER TO ELEVATIONS FOR TYPICAL WALL SECTIONS. (S4A.2)
- EXISTING PARTITION
- EXISTING 1 HR RATED WALL
- DOOR DESIGNATION — REFER TO SHEET **A9.02** FOR DOOR SCHEDULE (108)
- WINDOW DESIGNATION — REFER TO SHEET **A9.01** FOR ELEVATION TYPE (A)
- NOT IN CONTRACT
- FLOOR DRAIN

KEYNOTES

10 14.05	TOILET ROOM SIGN
10 21.03	SOLID POLYMER TOILET COMPARTMENT
10 21.04	SOLID POLYMER URINAL SCREEN
22 40.01	LAVATORY
22 40.02	WATER CLOSET
22 40.02A	WATER CLOSET, DA
22 40.03A	URINAL, DA
22 40.09	DRINKING FOUNTAIN
TA1	SOAP DISPENSER
TA2	MIRROR (24"X36" U.N.O.)
TA3	TOILET PAPER DISPENSER
TA4	PAPER TOWEL DISPENSER
TA5	GRAB BARS AT TYPICAL ACCESSIBLE TOILET STALLS
TA6	SANITARY NAPKIN DISPENSER
TA17	TRASH RECEPTACLE
TA18	TOILET PAPER DISPENSER, SEMI-RECESSED
TA19	TOILET SEAT COVER DISPENSER

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

G H J
D E F
A B C

KEY PLAN
PLAN NORTH
TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-32500
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

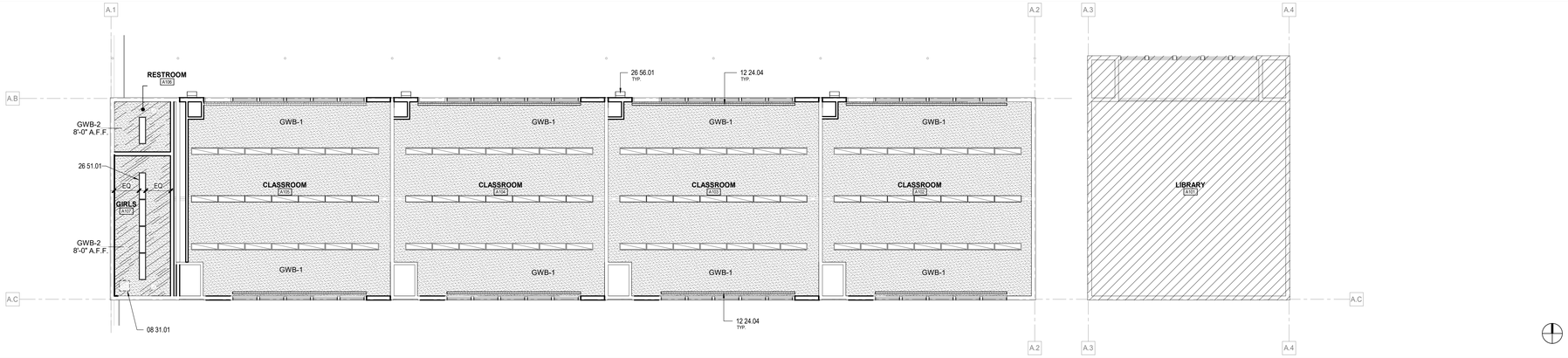
#	DESCRIPTION	DATE

DSA SUBMISSION

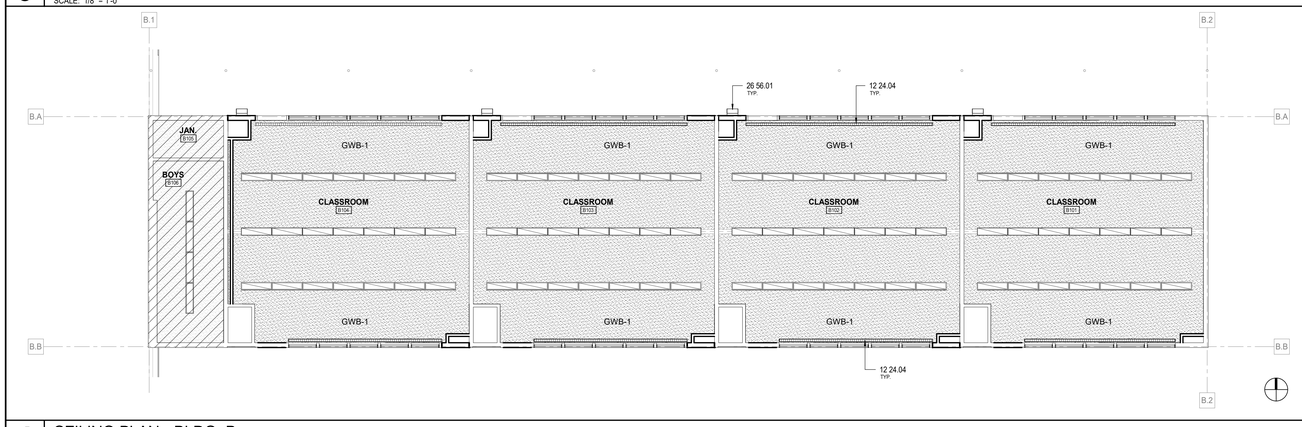
ENLARGED RESTROOM PLANS & ELEVATIONS

A2.30

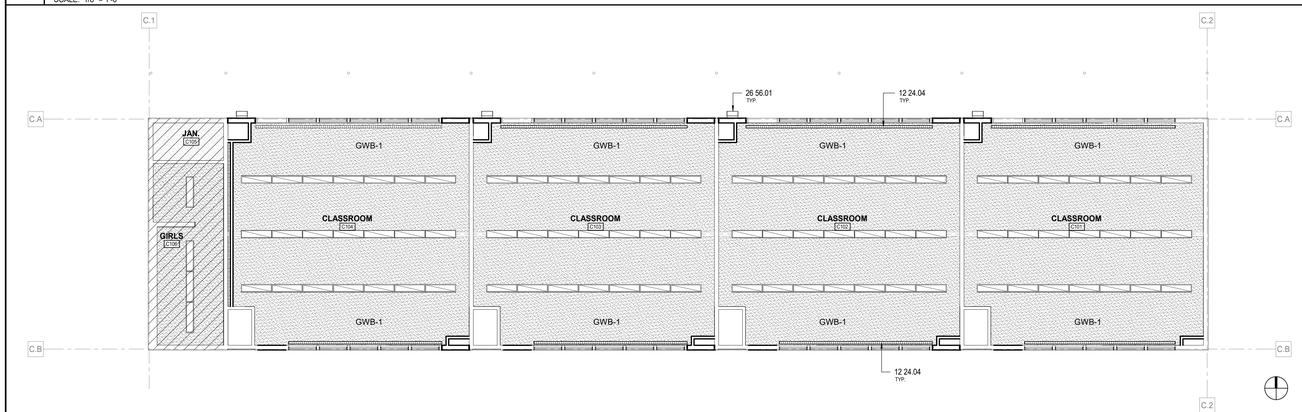
This document is for plan review only



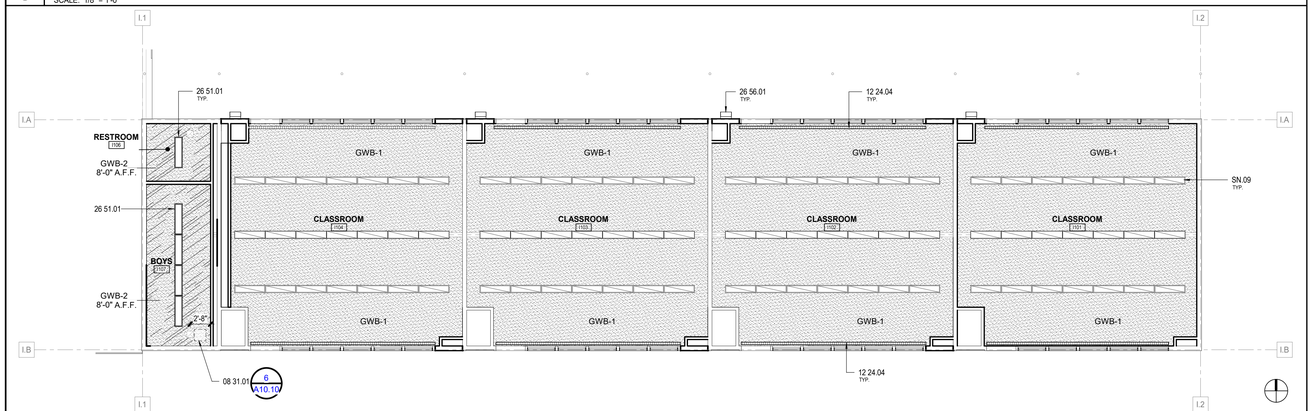
5 CEILING PLAN - BLDG. A
SCALE: 1/8" = 1'-0"



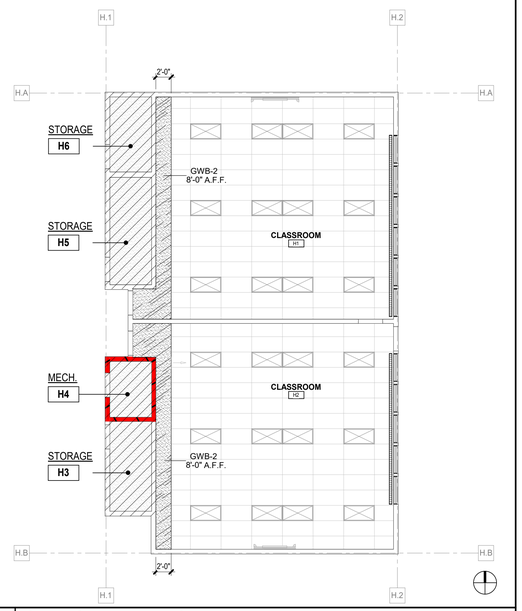
4 CEILING PLAN - BLDG. B
SCALE: 1/8" = 1'-0"



3 CEILING PLAN - BLDG. C
SCALE: 1/8" = 1'-0"



2 CEILING PLAN - BLDG. I
SCALE: 1/8" = 1'-0"



1 CEILING PLAN - BLDG. H
SCALE: 1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ALL SCHEDULED CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
3. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCH. CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
4. ONLY CEILING MOUNTED FIXTURES AND EQUIP. IS SHOWN ON ARCH. CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
5. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORD. WITH ELEC. DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
6. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
7. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORD. LOCATIONS OF CEILING ACCESS PANELS WITH ARCH. PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
8. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE

RCP LEGEND

ROOM NAME / 106	ROOM NAME & NUMBER
	REINSTALLED (E) 1'X4' LINEAR SURFACE MOUNTED FIXTURE
	REINSTALLED (E) 2'X4' SURFACE MOUNTED FIXTURE
	(N) 1'X4' LINEAR SURFACE MOUNTED FIXTURE
	CEILING MOUNTED EXIT SIGNAGE
	EXHAUST FAN
	CEILING MOUNTED WINDOW BLINDS
	(E) 2'X4' RECESSED FIXTURE

CEILING MATERIALS LEGEND

(E) 2'X4' ACT CEILING

GWB-1
GYPSUM BOARD
RE: FINISH SCHEDULE; 12/A10.10

GWB-2
GYPSUM BOARD
RE: FINISH SCHEDULE

NOT IN CONTRACT

KEYNOTES

08 31.01	ACCESS DOOR
12 24.04	VERTCIAL WINDOW BLINDS, CEILING MOUNTED
26 51.01	LIGHTING FIXTURE
26 56.01	EXTERIOR LIGHTING FIXTURE

SHEETNOTES

SN.09 EXISTING LIGHTS TO REMAIN. REMOVE DURING DEMO AND RE-INSTALL

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION
DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

G H J
D E F
A B C

KEY PLAN
PLAN NORTH
TRUE NORTH

LICENSED ARCHITECT
MICHELE GARGANO
C-32592
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG

REVISIONS

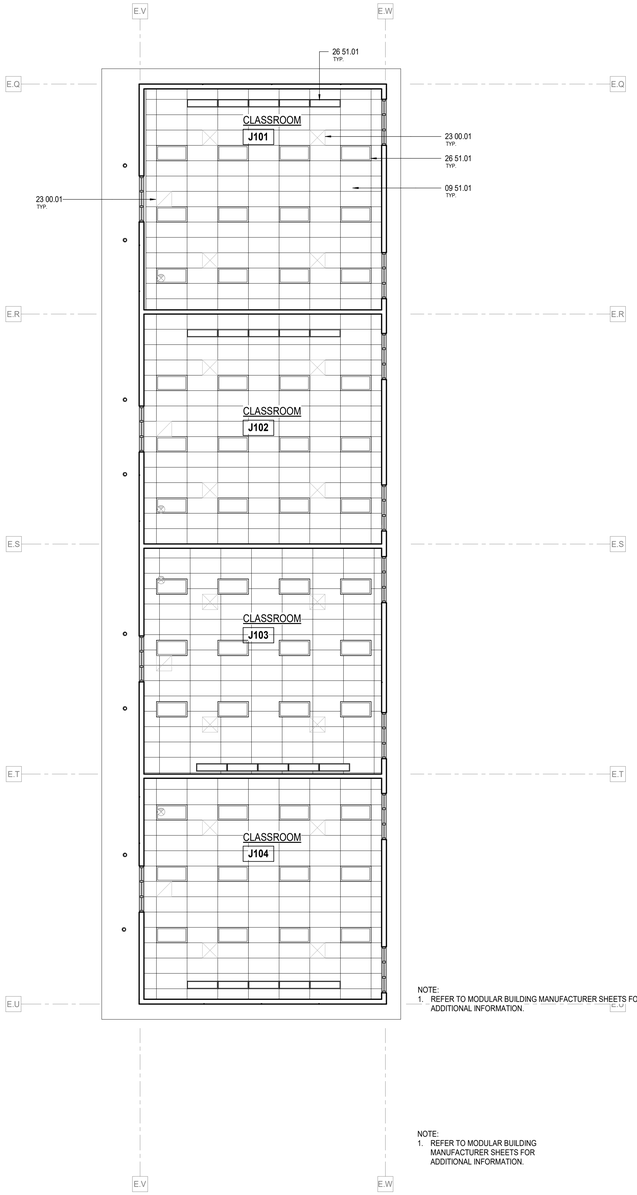
#	DESCRIPTION	DATE

DSA SUBMISSION

REFLECTED CEILING PLANS - BLDGS A,B,C,H,I

This document is for plan review only

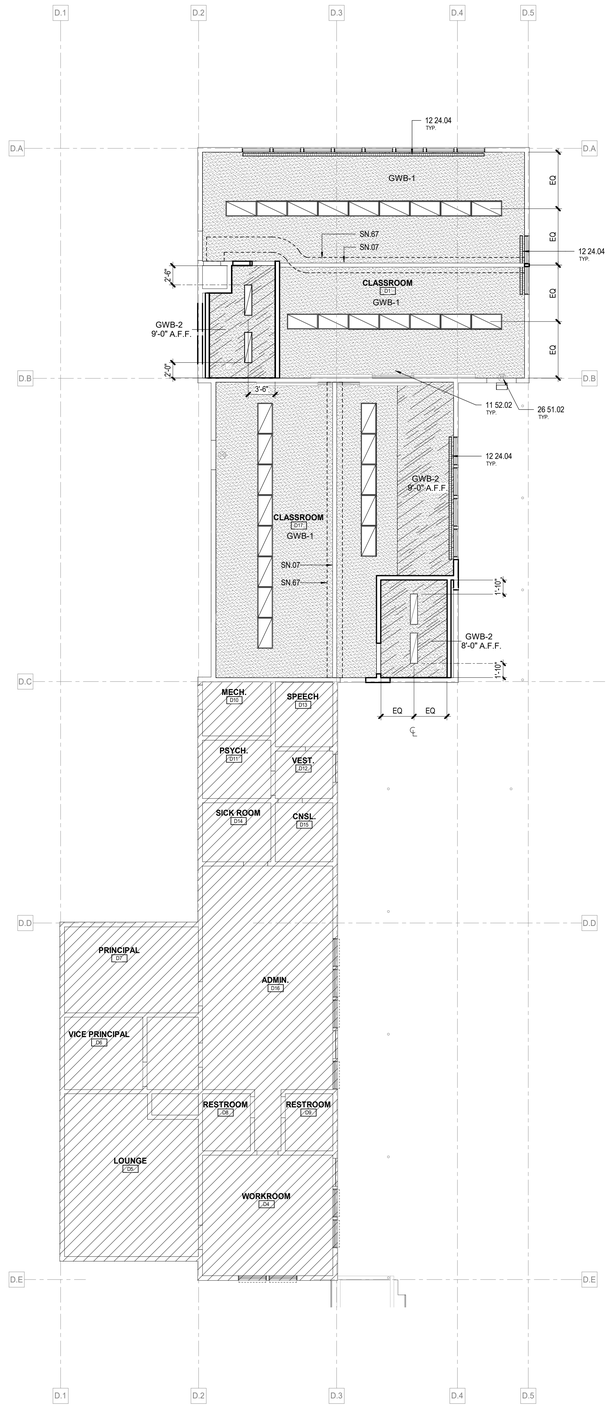
A3.10



NOTE:
1. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.

NOTE:
1. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.

2 CEILING PLAN - BLDG. J
SCALE: 1/8" = 1'-0"



1 REFLECTED CEILING PLAN - BUILDING D
SCALE: 1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ALL SCHEDULED CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
3. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCH. CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
4. ONLY CEILING MOUNTED FIXTURES AND EQUIP. IS SHOWN ON ARCH. CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
5. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORD. WITH ELEC. DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
6. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
7. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORD. LOCATIONS OF CEILING ACCESS PANELS WITH ARCH. PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
8. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE

RCP LEGEND

ROOM NAME 106	ROOM NAME & NUMBER
	REINSTALLED (E) 1'X4' LINEAR SURFACE MOUNTED FIXTURE
	REINSTALLED (E) 2'X4' SURFACE MOUNTED FIXTURE
	(N) 1'X4' LINEAR SURFACE MOUNTED FIXTURE
	CEILING MOUNTED EXIT SIGNAGE
	EXHAUST FAN
	CEILING MOUNTED WINDOW BLINDS
	(N) 2'X4' RECESSED FIXTURE

CEILING MATERIALS LEGEND

(N) 2'X4' ACT CEILING

GWB-1
GYPSUM BOARD
RE: FINISH SCHEDULE; 12/A10.10

GWB-2
GYPSUM BOARD
RE: FINISH SCHEDULE

NOT IN CONTRACT

KEYNOTES

09 51.01	ACOUSTICAL CEILING TILE - STANDARD
11 52.02	SMARTBOARD
12 24.04	VERTCIAL WINDOW BLINDS, CEILING MOUNTED
23 00.01	MECHANICAL EQUIPMENT
26 51.01	LIGHTING FIXTURE
26 51.02	ILLUMINATED EXIT SIGN

SHEETNOTES

SN.07	EXISTING EXPOSED STEEL STRUCTURE, PREP FOR NEW PAINT.
SN.67	EXISTING MECHANICAL DUCT AND SUPPLY VENTS TO REMAIN.

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

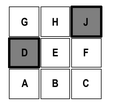
ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION — DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT



KEY PLAN



CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

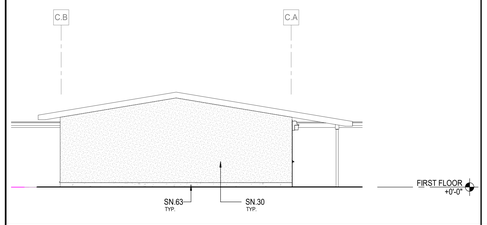
#	DESCRIPTION	DATE

DSA SUBMISSION

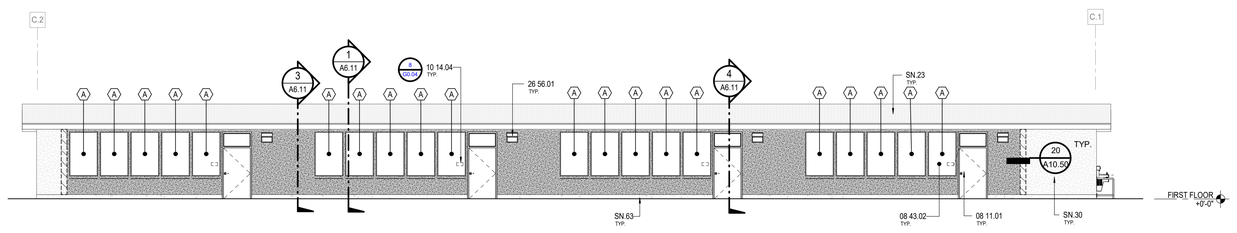
REFLECTED CEILING PLANS - BLDGS D & J

This document is for plan review only

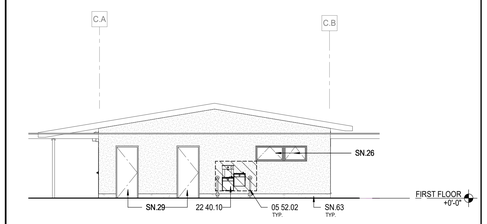
A3.11



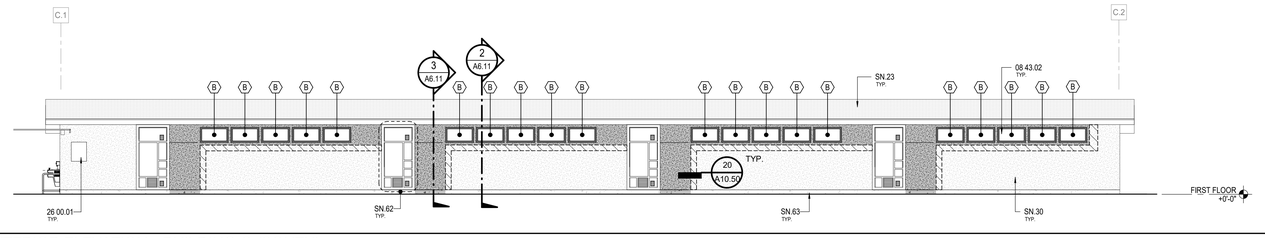
12 EXTERIOR ELEVATION - BUILDING C (EAST)
SCALE: 1/8" = 1'-0"



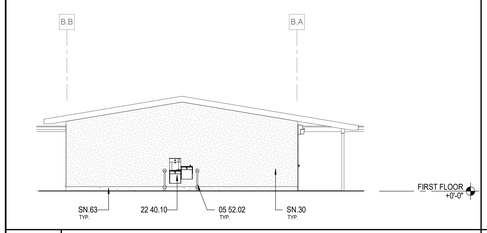
11 EXTERIOR ELEVATION - BUILDING C (NORTH)
SCALE: 1/8" = 1'-0"



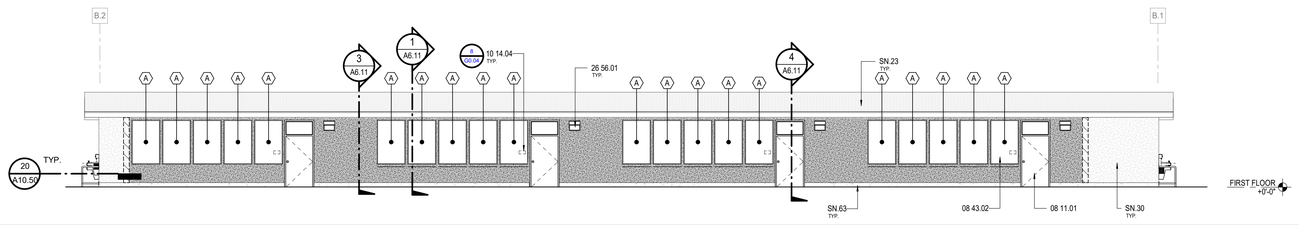
10 EXTERIOR ELEVATION - BUILDING C (WEST)
SCALE: 1/8" = 1'-0"



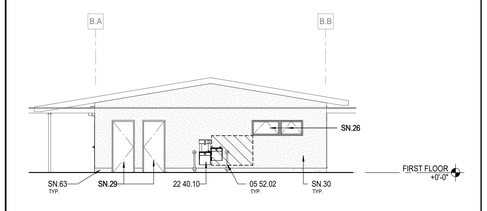
9 EXTERIOR ELEVATION - BUILDING C (SOUTH)
SCALE: 1/8" = 1'-0"



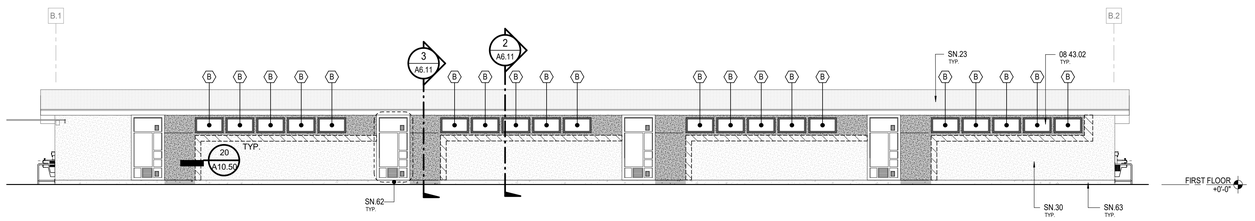
8 EXTERIOR ELEVATION - BUILDING B (EAST)
SCALE: 1/8" = 1'-0"



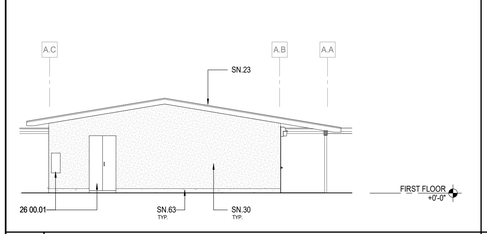
7 EXTERIOR ELEVATION - BUILDING B (NORTH)
SCALE: 1/8" = 1'-0"



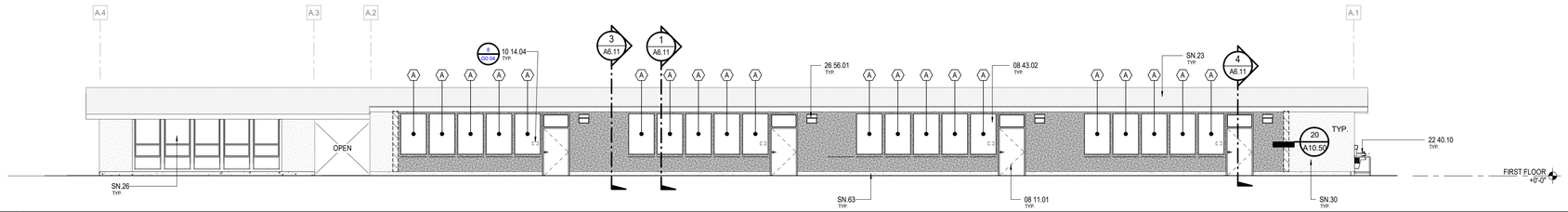
6 EXTERIOR ELEVATION - BUILDING B (WEST)
SCALE: 1/8" = 1'-0"



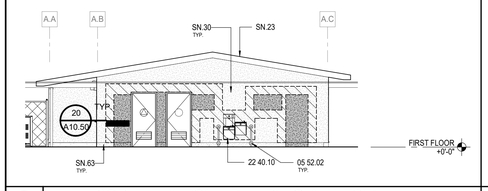
5 EXTERIOR ELEVATION - BUILDING B (SOUTH)
SCALE: 1/8" = 1'-0"



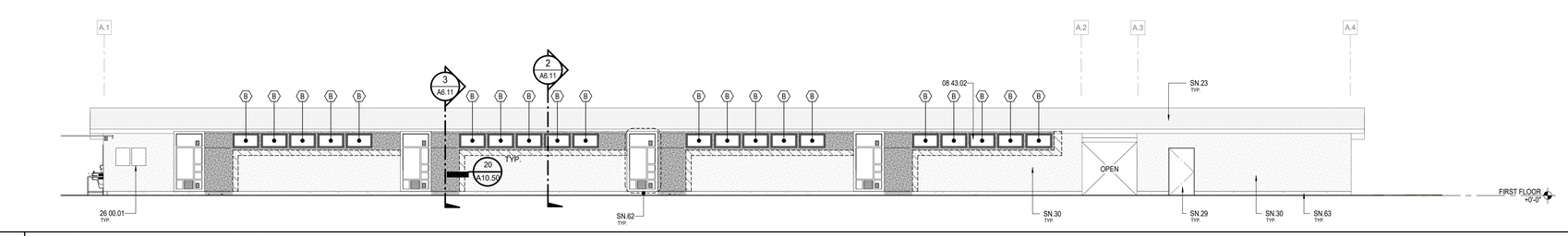
4 EXTERIOR ELEVATION - BUILDING A (EAST)
SCALE: 1/8" = 1'-0"



3 EXTERIOR ELEVATION - BUILDING A (NORTH)
SCALE: 1/8" = 1'-0"



2 EXTERIOR ELEVATION - BUILDING A (WEST)
SCALE: 1/8" = 1'-0"



1 EXTERIOR ELEVATION - BUILDING A (SOUTH)
SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION LEGEND

- INFILL WALL — RE: FLOOR PLANS & SHEET G10.50 FOR EXTERIOR DETAILS, TO BE PAINTED EP-1
- (E) STUCCO WALL, TO BE PAINTED EP-1
- INFILL CURB — RE: FLOOR PLANS & SHEET G10.50 FOR EXTERIOR DETAILS, TO BE PAINTED EP-1
- (E) EXPOSED CURB, TO BE PAINTED EP-1
- (E) WALL TO RECEIVE (N) STUCCO, TO BE PAINTED EP-1
- (A) WINDOW DESIGNATION — REFER TO SHEET **A9.01** FOR ELEVATION TYPE

GENERAL ELEVATION NOTES

1. REFER TO SHEET A10.50 FOR TYPICAL PLASTER SIDING DETAILS.
2. EXTERIOR LIGHT FIXTURES TO BE MOUNTED 10'-0" AFF U.N.O

KEYNOTES

05 52.02	DRINKING FOUNTAIN GUARDRAIL
08 11.01	HOLLOW METAL DOOR AND FRAME AS SCHEDULED
08 43.02	ALUMINUM STOREFRONT WINDOW
10 14.04	ROOM IDENTIFICATION SIGN
22 40.10	DRINKING FOUNTAIN, WATER BOTTLE FILLER
26 00.01	ELECTRICAL EQUIPMENT. SEE ELEC DRAWINGS
26 56.01	EXTERIOR LIGHTING FIXTURE

SHEETNOTES

SN.23	EXISTING ROOF TO REMAIN
SN.26	EXISTING WINDOW TO REMAIN
SN.29	EXISTING DOOR AND FRAME TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT.
SN.30	EXISTING PLASTER TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT EP-1
SN.62	EXISTING MECH CLOSET EXTERIOR HARBORITE PANEL AND TRIM TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT. REPLACE LOUVERS AS REQUIRED.
SN.63	EXISTING EXPOSED CONCRETE CURB. PREP FOR NEW PAINT.

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION
DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG

REVISIONS

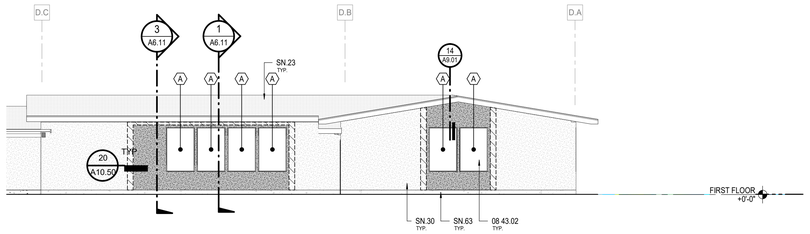
#	DESCRIPTION	DATE

DSA SUBMISSION

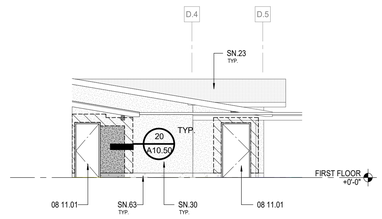
EXTERIOR ELEVATIONS - BLDGS A,B,C

This document is for plan review only

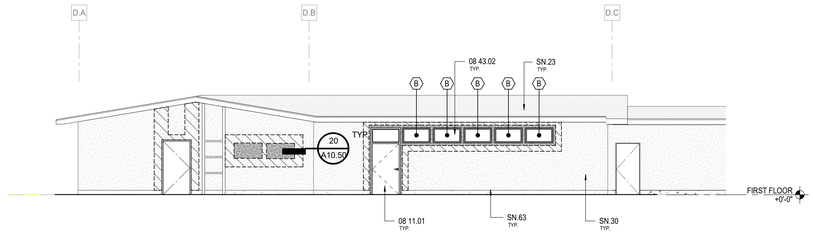
A5.10



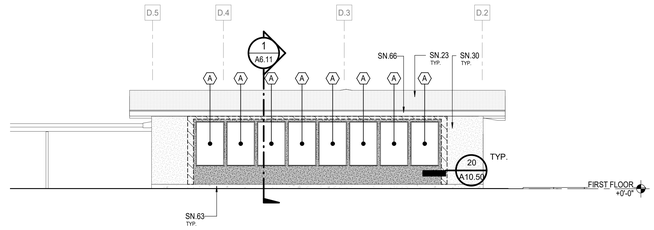
12 EXTERIOR ELEVATION - BUILDING D (EAST)
SCALE: 1/8" = 1'-0"



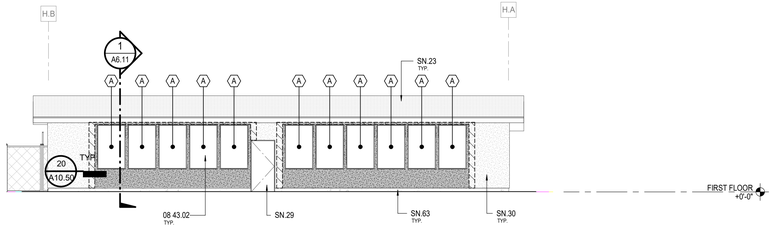
11 EXTERIOR ELEVATION - BUILDING D (SOUTH)
SCALE: 1/8" = 1'-0"



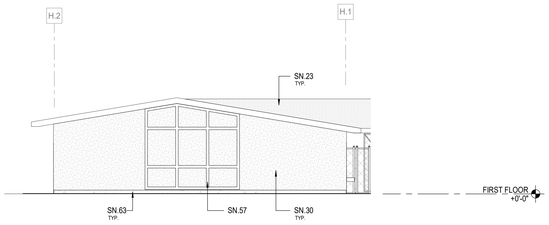
10 EXTERIOR ELEVATION - BUILDING D (WEST)
SCALE: 1/8" = 1'-0"



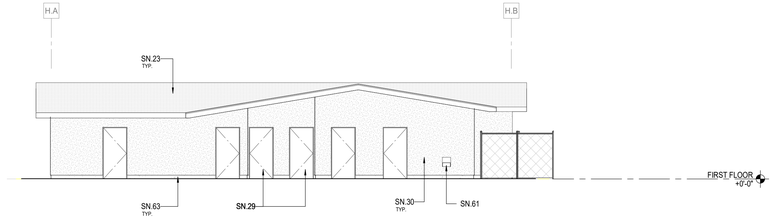
9 EXTERIOR ELEVATION - BUILDING D (NORTH)
SCALE: 1/8" = 1'-0"



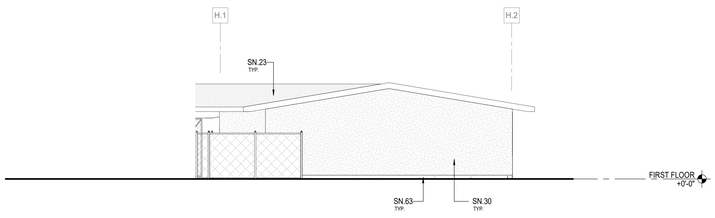
8 EXTERIOR ELEVATION - BUILDING H (EAST)
SCALE: 1/8" = 1'-0"



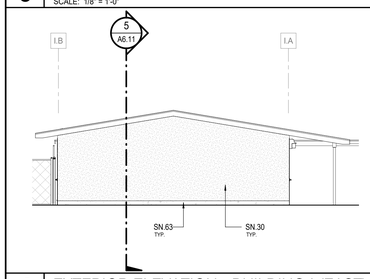
7 EXTERIOR ELEVATION - BUILDING H (NORTH)
SCALE: 1/8" = 1'-0"



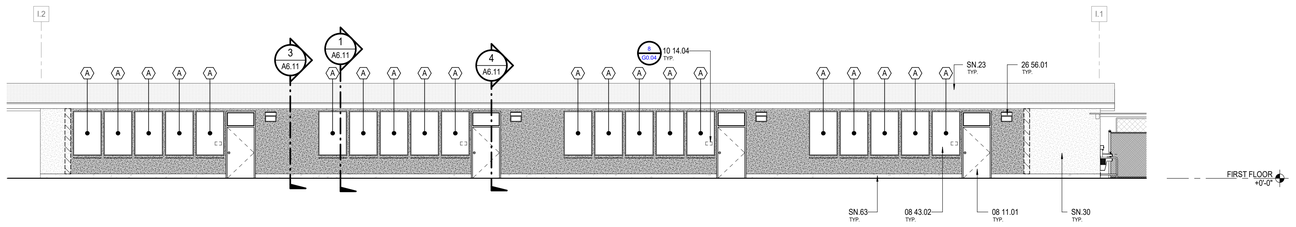
6 EXTERIOR ELEVATION - BUILDING H (WEST)
SCALE: 1/8" = 1'-0"



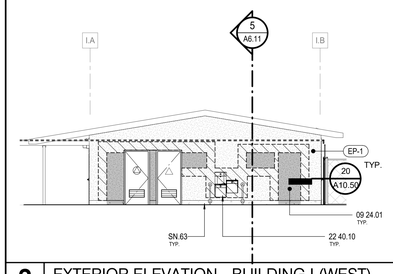
5 EXTERIOR ELEVATION- BUILDING H (SOUTH)
SCALE: 1/8" = 1'-0"



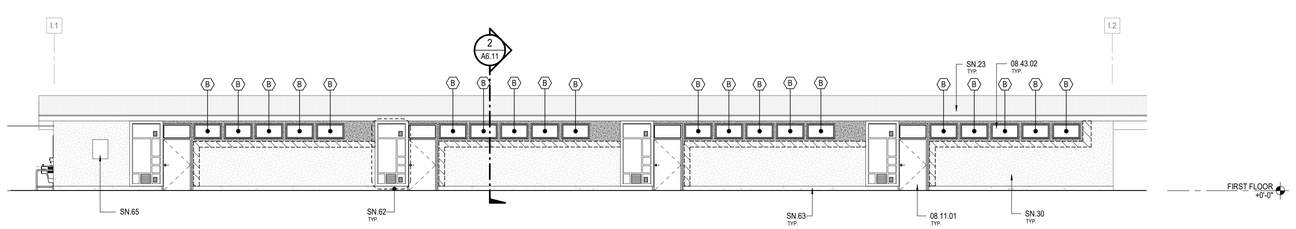
4 EXTERIOR ELEVATION - BUILDING I (EAST)
SCALE: 1/8" = 1'-0"



3 EXTERIOR ELEVATION - BUILDING I (NORTH)
SCALE: 1/8" = 1'-0"



2 EXTERIOR ELEVATION - BUILDING I (WEST)
SCALE: 1/8" = 1'-0"



1 EXTERIOR ELEVATION - BUILDING I (SOUTH)
SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION LEGEND

- INFILL WALL
  RE: FLOOR PLANS & SHEET G10.50 FOR EXTERIOR DETAILS, TO BE PAINTED EP-1
- (E) STUCCO WALL, TO BE PAINTED EP-1
- INFILL CURB
  RE: FLOOR PLANS & SHEET G10.50 FOR EXTERIOR DETAILS, TO BE PAINTED EP-1
- (E) EXPOSED CURB, TO BE PAINTED EP-1
- (E) WALL TO RECEIVE (N) STUCCO, TO BE PAINTED EP-1
- (A) WINDOW DESIGNATION
  REFER TO SHEET **A9.01** FOR ELEVATION TYPE

GENERAL ELEVATION NOTES

1. REFER TO SHEET A10.50 FOR TYPICAL PLASTER SIDING DETAILS.
2. EXTERIOR LIGHT FIXTURES TO BE MOUNTED 10'-0" AFF U.N.O

KEYNOTES

08 11.01	HOLLOW METAL DOOR AND FRAME AS SCHEDULED
08 43.02	ALUMINUM STOREFRONT WINDOW
09 24.01	CEMENT PLASTER
10 14.04	ROOM IDENTIFICATION SIGN
22 40.10	DRINKING FOUNTAIN, WATER BOTTLE FILLER
26 56.01	EXTERIOR LIGHTING FIXTURE

SHEETNOTES

SN.23	EXISTING ROOF TO REMAIN
SN.29	EXISTING DOOR AND FRAME TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT.
SN.30	EXISTING PLASTER TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT EP-1
SN.57	EXISTING TRIM TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT.
SN.61	EXISTING DRINKING FOUNTAIN TO REMAIN
SN.62	EXISTING MECH CLOSET EXTERIOR HARBORITE PANEL AND TRIM TO REMAIN. PATCH AND REPAIR AS NECESSARY AND PREP FOR NEW PAINT. REPLACE LOUVERS AS REQUIRED.
SN.63	EXISTING EXPOSED CONCRETE CURB. PREP FOR NEW PAINT.
SN.65	EXISTING ELEC EQUIPMENT. SEE ELEC DWGS
SN.66	EXISTING ROOF CANOPY BLOCKING TO REMAIN. PROTECT, REPAIR AS NECESSARY AND PREP FOR NEW PAINT.

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-33550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

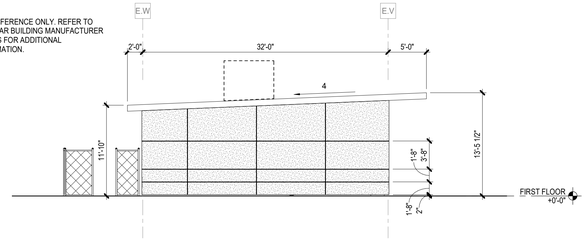
DSA SUBMISSION

EXTERIOR ELEVATIONS - BLDGS D,H,I

This document is for plan review only

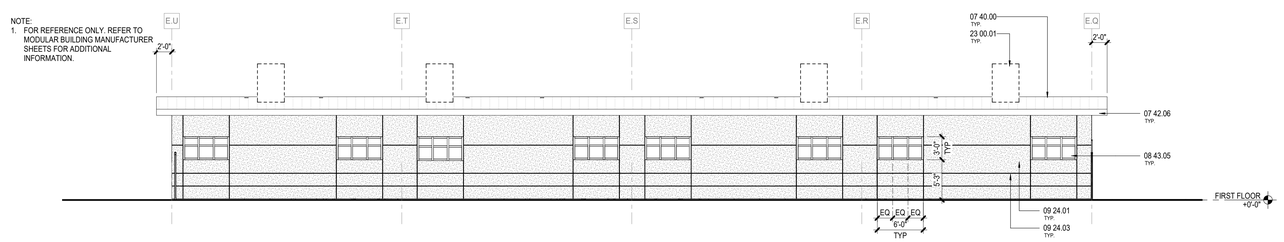
A5.11

NOTE:
1. FOR REFERENCE ONLY. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.



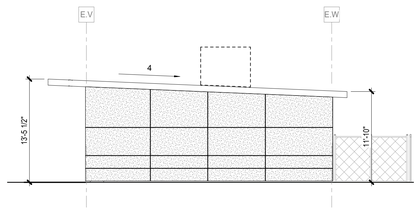
4 EXTERIOR ELEVATION - NORTH
SCALE: 1/8" = 1'-0"

NOTE:
1. FOR REFERENCE ONLY. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.



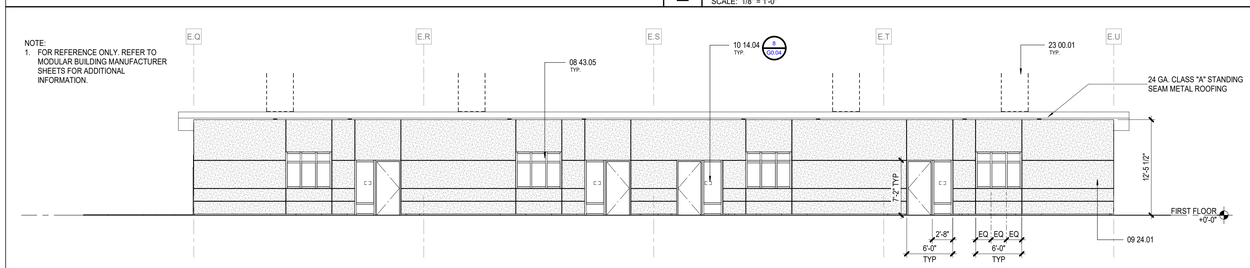
3 EXTERIOR ELEVATION - EAST
SCALE: 1/8" = 1'-0"

NOTE:
1. FOR REFERENCE ONLY. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.



2 EXTERIOR ELEVATOIN - SOUTH
SCALE: 1/8" = 1'-0"

NOTE:
1. FOR REFERENCE ONLY. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.



1 EXTERIOR ELEVATION - WEST
SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION LEGEND - PORTABLE

STUCCO WALL, TO BE PAINTED EP-1

GENERAL ELEVATION NOTES

1. REFER TO SHEET A10.50 FOR TYPICAL PLASTER SIDING DETAILS.
2. EXTERIOR LIGHT FIXTURES TO BE MOUNTED 10'-0" AFF U.N.O

KEYNOTES

07 40.00	STANDING SEAM METAL ROOF SYSTEM
07 42.06	METAL FASCIA
08 43.05	ALUMINUM NAIL-ON WINDOW SYSTEM
09 24.01	CEMENT PLASTER
09 24.03	CEMENT PLASTER CONTROL JOINT
10 14.04	ROOM IDENTIFICATION SIGN
23 00.01	MECHANICAL EQUIPMENT

SHEETNOTES

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION DSA APPL. NO. 02-123250 FILE NO. 39-50

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

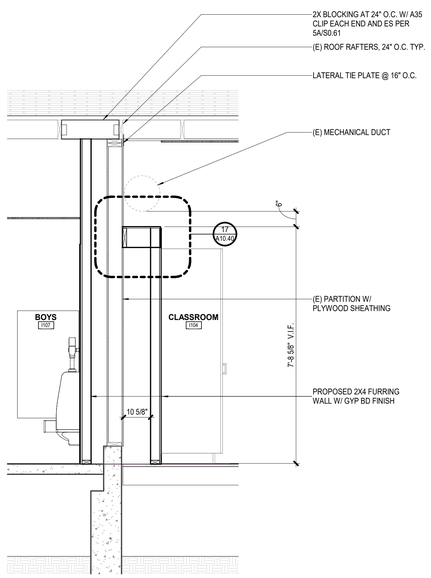
#	DESCRIPTION	DATE

DSA SUBMISSION

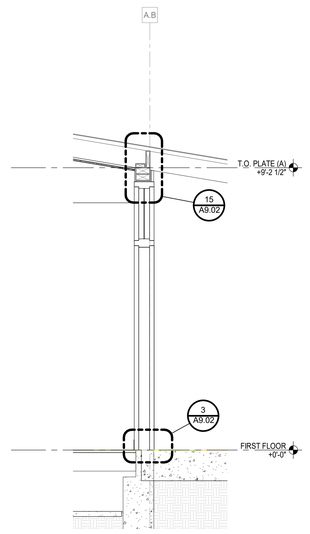
EXTERIOR ELEVATIONS - MODULAR BLDG J

A5.12

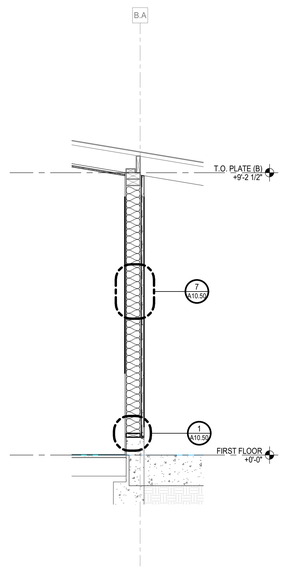
This document is for plan review only



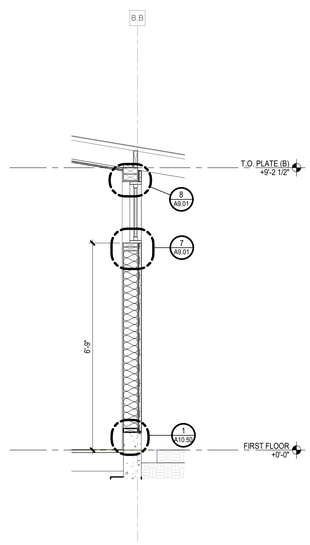
5 SECTION @ SHEAR WALL
SCALE: 1/2" = 1'-0"



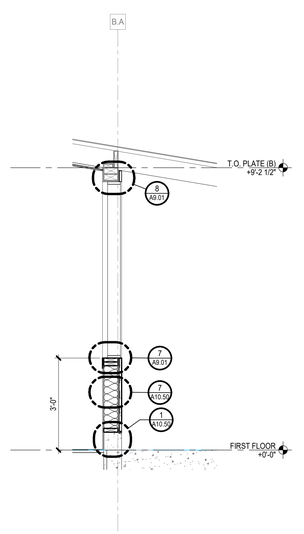
4 SECTION @ NEW DOOR WITH TRANSOM
SCALE: 1/2" = 1'-0"



3 SECTION @ NEW WALL INFILL
SCALE: 1/2" = 1'-0"



2 SECTION @ CLERESTORY WINDOW
SCALE: 1/2" = 1'-0"



1 SECTION @ WINDOW
SCALE: 1/2" = 1'-0"

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

DSA APPL. NO. 02-123250 FILE NO. 39-50

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

WALL SECTIONS

A6.11

This document is for plan review only

A7.01 - INTERIOR ELEVATIONS - BLDGS A,B,C,D,I,H

INTERIOR MATERIALS LEGEND

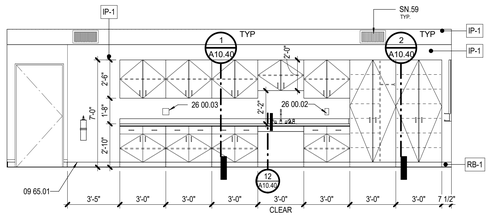
NEW INTERIOR INFILL WALL, TO RECEIVE IP-1 FINISH

KEYNOTES

09 21.10	NEW INTERIOR INFILL WALL ASSEMBLY, WHERE OCCURS
09 65.01	RESILIENT RUBBER BASE (B-1)
10 11.01	MARKERBOARD
11 52.02	SMARTBOARD
26 00.02	ELECTRICAL OUTLET
26 00.03	ELECTRICAL & DATA OUTLET, SEE ELECTRICAL

SHEETNOTES

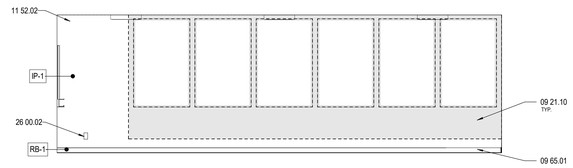
SN.58	EXISTING RETURN AIR GRILLE TO REMAIN
SN.59	EXISTING SUPPLY AIR DIFFUSER TO REMAIN



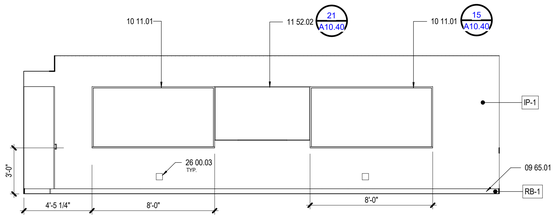
8 INTERIOR ELEVATION - H1 VIEW D
SCALE: 1/4" = 1'-0"



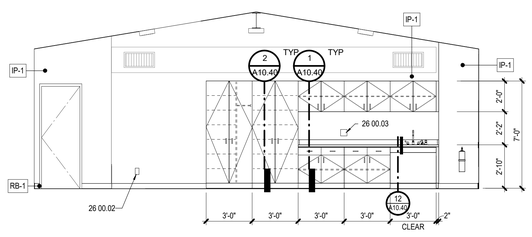
7 INTERIOR ELEVATION - H1 VIEW C
SCALE: 1/4" = 1'-0"



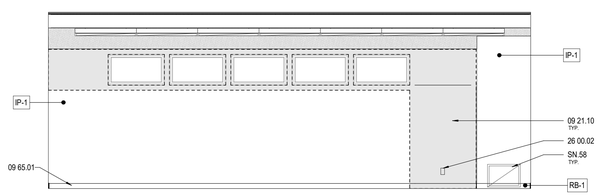
6 INTERIOR ELEVATION - H1 VIEW B
SCALE: 1/4" = 1'-0"



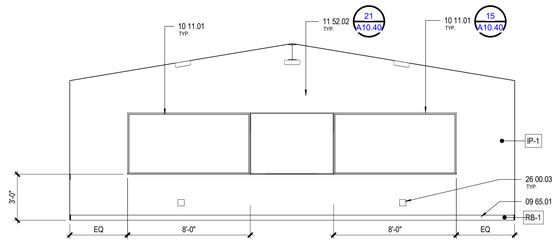
5 INTERIOR ELEVATION - H1 VIEW A
SCALE: 1/4" = 1'-0"



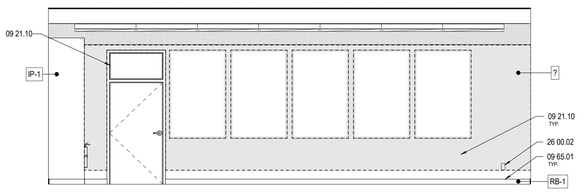
4 INTERIOR ELEVATION - TYP. CLASSROOM VIEW D
SCALE: 1/4" = 1'-0"



3 INTERIOR ELEVATION - TYP. CLASSROOM VIEW C
SCALE: 1/4" = 1'-0"



2 INTERIOR ELEVATION - TYP. CLASSROOM VIEW B
SCALE: 1/4" = 1'-0"



1 INTERIOR ELEVATIONS -TYP. CLASSROOM
SCALE: 1/4" = 1'-0"

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 05-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

INTERIOR ELEVATIONS - BLDGS A,B,C,D,I,H

This document is for plan review only

A7.01

D:_Revit\Local\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/24/2026 12:57:46 PM

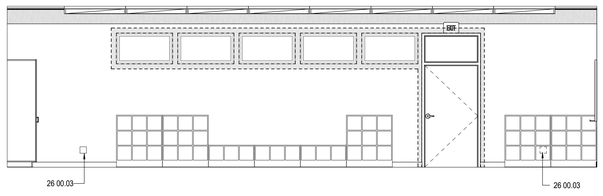
INTERIOR MATERIALS LEGEND

NEW INTERIOR INFILL WALL, TO RECEIVE IP-1 FINISH

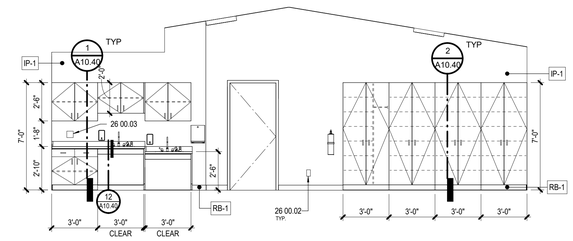
KEYNOTES

10 11.01	MARKERBOARD
11 52.02	SMARTBOARD
26 00.02	ELECTRICAL OUTLET
26 00.03	ELECTRICAL & DATA OUTLET, SEE ELECTRICAL

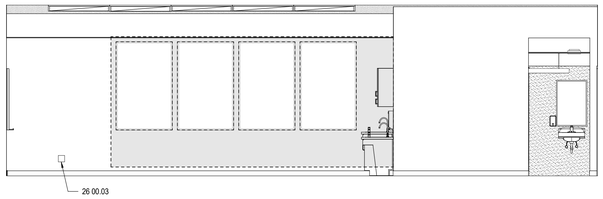
SHEETNOTES



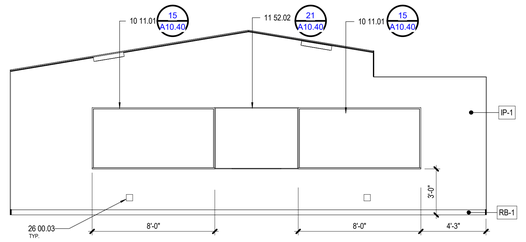
8 INTERIOR ELEVATIONS - D17 VIEW D
SCALE: 1/4" = 1'-0"



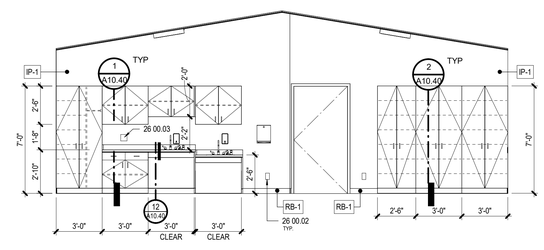
7 INTERIOR ELEVATIONS - D17 VIEW C
SCALE: 1/4" = 1'-0"



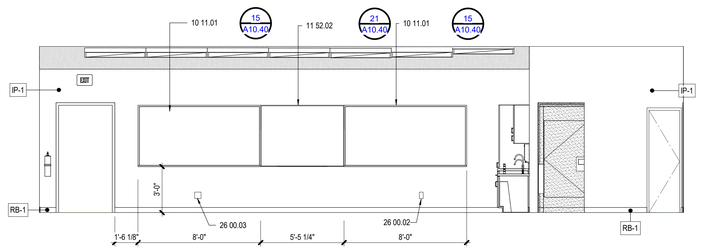
6 INTERIOR ELEVATIONS - D17 VIEW B
SCALE: 1/4" = 1'-0"



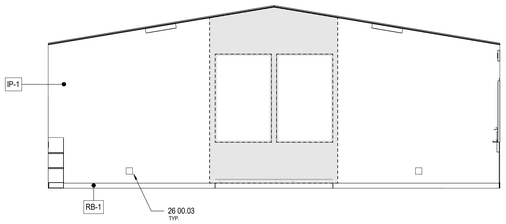
5 INTERIOR ELEVATIONS - D17 VIEW A
SCALE: 1/4" = 1'-0"



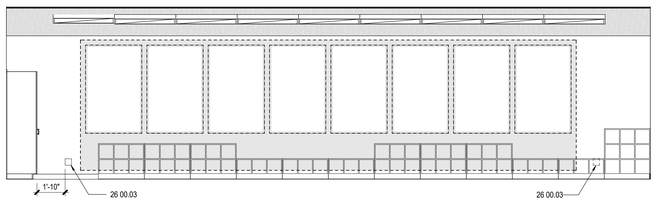
4 INTERIOR ELEVATIONS - D1 VIEW D
SCALE: 1/4" = 1'-0"



3 INTERIOR ELEVATIONS - D1 VIEW C
SCALE: 1/4" = 1'-0"



2 INTERIOR ELEVATIONS - D1 VIEW B
SCALE: 1/4" = 1'-0"



1 INTERIOR ELEVATIONS - D1 VIEW A
SCALE: 1/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

Not for permitting or construction

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

INTERIOR ELEVATIONS - BLDG D

This document is for plan review only

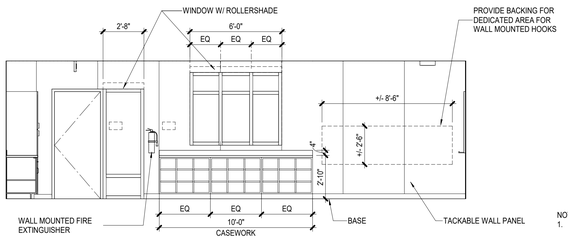
A7.02

INTERIOR MATERIALS LEGEND

NEW INTERIOR INFILL WALL, TO RECEIVE IP-1 FINISH

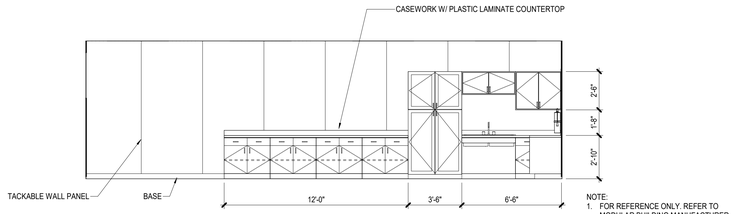
KEYNOTES

09 65.01	RESILIENT RUBBER BASE (B-1)
09 65.02	RESILIENT FLOORING, VCT
10 11.01	MARKERBOARD
11 52.02	SMARTBOARD
26 00.02	ELECTRICAL OUTLET
26 00.03	ELECTRICAL & DATA OUTLET, SEE ELECTRICAL



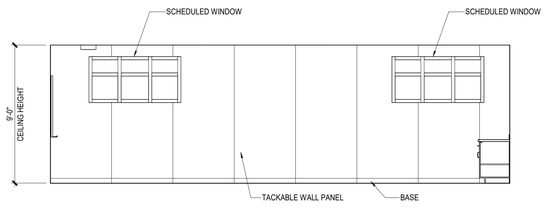
NOTE:
1. FOR REFERENCE ONLY. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.

8 INTERIOR ELEVATION - TYP. MODULAR CLASSROOM VIEW D
SCALE: 1/4" = 1'-0"



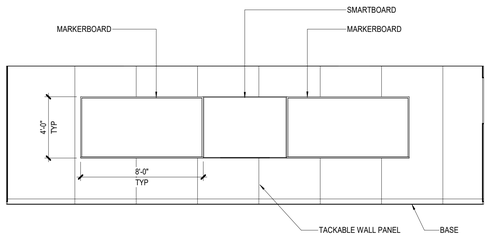
NOTE:
1. FOR REFERENCE ONLY. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.

7 INTERIOR ELEVATION - TYP. MODULAR CLASSROOM VIEW C
SCALE: 1/4" = 1'-0"



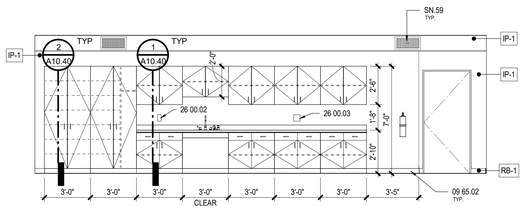
NOTE:
1. FOR REFERENCE ONLY. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.

6 INTERIOR ELEVATION - TYP. MODULAR CLASSROOM VIEW B
SCALE: 1/4" = 1'-0"

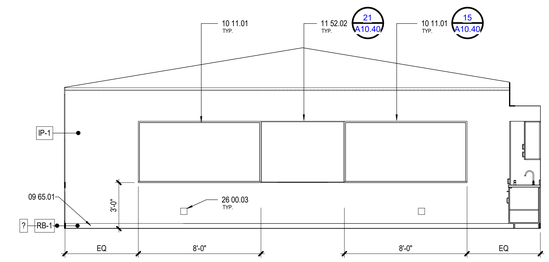


NOTE:
1. FOR REFERENCE ONLY. REFER TO MODULAR BUILDING MANUFACTURER SHEETS FOR ADDITIONAL INFORMATION.

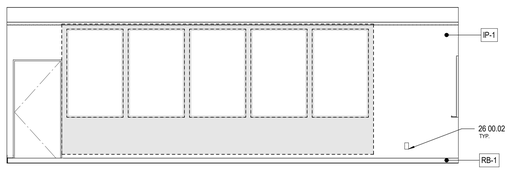
5 INTERIOR ELEVATION - TYP. MODULAR CLASSROOM VIEW A
SCALE: 1/4" = 1'-0"



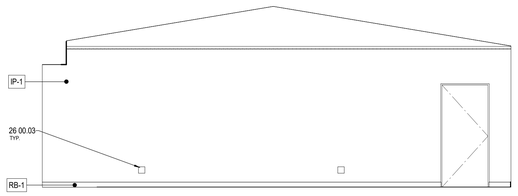
4 INTERIOR ELEVATION - H2 VIEW D
SCALE: 1/4" = 1'-0"



3 INTERIOR ELEVATION - H2 VIEW C
SCALE: 1/4" = 1'-0"



2 INTERIOR ELEVATION - H2 VIEW B
SCALE: 1/4" = 1'-0"



1 INTERIOR ELEVATION - H2 VIEW A
SCALE: 1/4" = 1'-0"

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

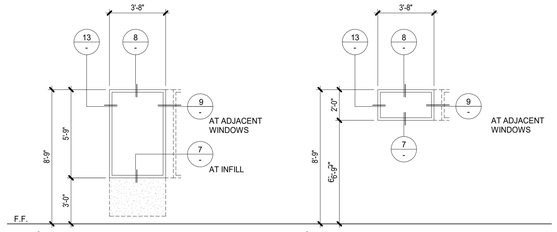
INTERIOR ELEVATIONS - BLDGS H & J

This document is for plan review only

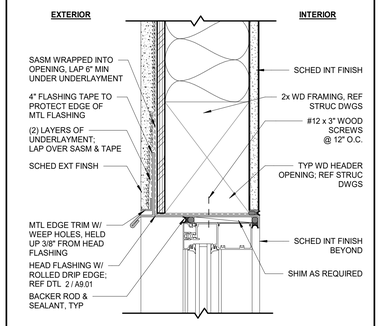
A7.03

NOTES:

1. ALL EXTERIOR WINDOWS & STOREFRONTS TO HAVE TEMPERED SEALED INSULATED GLASS AS SPECIFIED.
2. GLAZING TINT TO BE SELECTED PER ARCHITECT APPROVED SELECTION.
3. PROVIDE MANUALLY OPERATED MECHANICAL DOOR / WINDOW SHADES W/ (2) LAYERS OF SHADECLOTH AS SPECIFIED IN THE PROJECT MANUAL OVER TRANSOMS, SIDELITES &/OR WINDOWS.

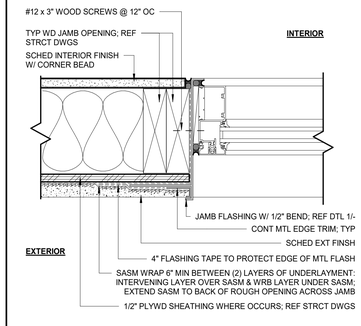


21 WINDOW TYPES
SCALE: 1/4" = 1'-0"



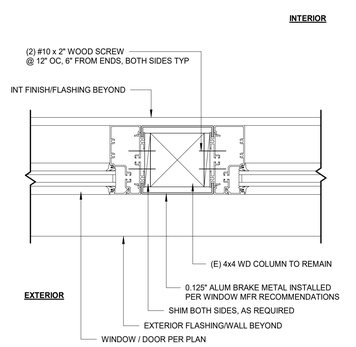
NOTE:
1. REFER TO2 / A9.01 FOR TYPICAL SURROUND FLASHING FOR ALL WINDOW OPENING.
2. AT OPERABLE WINDOWS, LIMIT TO MAXIMUM 4" PROJECTION.

14 EXT FIXED WINDOW HEAD
SCALE: 3" = 1'-0"



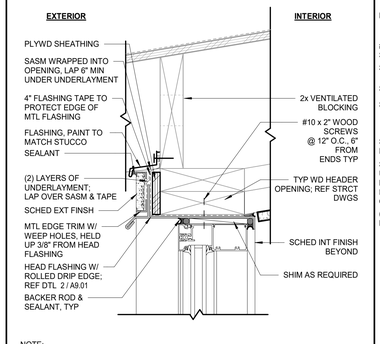
NOTE:
1. REFER TO 2 / A9.01 FOR TYPICAL SURROUND FLASHING FOR ALL WINDOW OPENING.
2. AT OPERABLE WINDOWS, LIMIT TO MAXIMUM 4" PROJECTION.

13 TYP EXTERIOR WINDOW JAMB
SCALE: 3" = 1'-0"



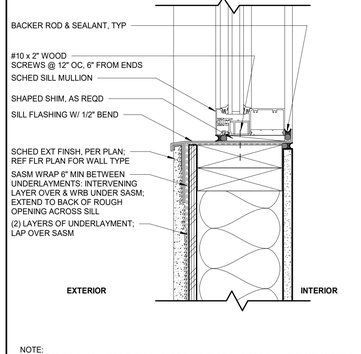
NOTE:
1. REFER TO 2 / A9.01 FOR TYPICAL SURROUND FLASHING FOR ALL WINDOW OPENING.
2. AT OPERABLE WINDOWS, LIMIT TO MAXIMUM 4" PROJECTION.

9 TYP EXTERIOR JAMB DETAIL
SCALE: 3" = 1'-0"



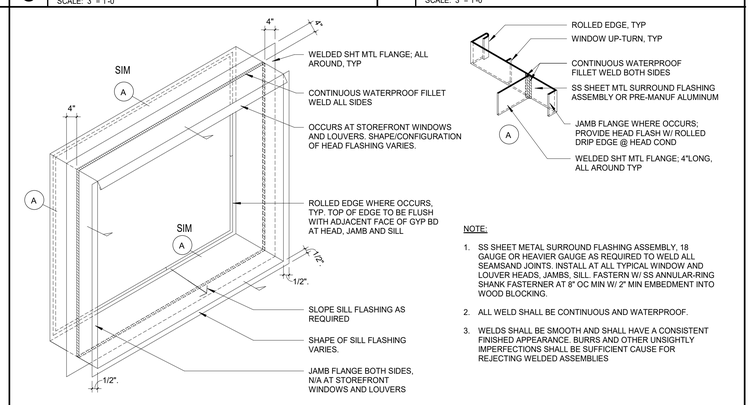
NOTE:
1. REFER TO 2 / A9.01 FOR TYPICAL SURROUND FLASHING FOR ALL WINDOW OPENING.
2. AT OPERABLE WINDOWS, LIMIT TO MAXIMUM 4" PROJECTION.

8 TYP EXT FIXED WINDOW HEAD
SCALE: 3" = 1'-0"



NOTE:
1. REFER TO 2 / A9.01 FOR TYPICAL SURROUND FLASHING FOR ALL WINDOW OPENING.
2. AT OPERABLE WINDOWS, LIMIT TO MAXIMUM 4" PROJECTION.

7 TYP EXTERIOR WINDOW SILL
SCALE: 3" = 1'-0"



NOTE:

1. SS SHEET METAL SURROUND FLASHING ASSEMBLY, 18 GAUGE OR HEAVIER GAUGE AS REQUIRED TO WELD ALL SEAMSAND JOINTS. INSTALL AT ALL TYPICAL WINDOW AND LOUVER HEADS, JAMBS, SILL. FASTERN W/ SS ANNULAR-RING SHANK FASTERNER AT 8" OC MIN W/ 2" MIN EMBEDMENT INTO WOOD BLOCKING.
2. ALL WELD SHALL BE CONTINUOUS AND WATERPROOF.
3. WELDS SHALL BE SMOOTH AND SHALL HAVE A CONSISTENT FINISHED APPEARANCE. BURRS AND OTHER UNSIGHTLY IMPERFECTIONS SHALL BE SUFFICIENT CAUSE FOR REJECTING WELDED ASSEMBLIES

2 WINDOW / STOREFRONT FLASHING ISOMETRIC
SCALE: 1/2" = 1'-0"

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION DSA-APPL. NO. 02-123250 FILE NO. 39-50

LICENSED ARCHITECT
MICHELE GARGANO
C-33550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

WINDOW TYPES & DETAILS

This document is for plan review only

A9.01

A9.02 - DOOR TYPES & DETAILS, SCHEDULES

FINISH SCHEDULE

ROOM NUM	ROOM NAME	BLDG	FLOOR	BASE	WALL FINISH				CEILING FINISH	CEILING HEIGHT	REMARKS
					NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL			
A101	LIBRARY	A									
A102	CLASSROOM	A	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
A102.A	MECH CLOSET										
A103	CLASSROOM	A	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
A103.A	MECH CLOSET	A		RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
A104	CLASSROOM	A	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
A104.A	MECH CLOSET										
A105	CLASSROOM	A	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
A105.A	MECH CLOSET										
A106	RESTROOM	A	EPX-1	EPX-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1	IP-2		
A107	GIRLS	A	EPX-1	EPX-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1	IP-2		
A109	RESTROOM	A	EPX-1	EPX-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1	IP-2		
B101	CLASSROOM	B	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
B101.A	MECH CLOSET	B		RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
B102	CLASSROOM	B	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
B102.A	MECH CLOSET										
B103	CLASSROOM	B	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
B103.A	MECH CLOSET										
B104	CLASSROOM	B	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
B104.A	MECH CLOSET										
B105	JAN.	B		RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
B106	BOYS	B	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	IP-2		
C101	CLASSROOM	C	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
C101.A	MECH CLOSET	C		RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
C102	CLASSROOM	C	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
C102.A	MECH CLOSET										
C103	CLASSROOM	C	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
C103.A	MECH CLOSET										
C104	CLASSROOM	C	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
C104A	MECH CLOSET										
C105	JAN.	C		RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
C106	GIRLS	C	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	IP-2		
D1	CLASSROOM	D	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
D1.A	RESTROOM		EPX-1	EPX-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1			
D17	CLASSROOM	D	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
H1	CLASSROOM	H	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
H2	CLASSROOM	H	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
H3	STORAGE	H		RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
H4	MECH.	H		RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
H5	STORAGE	H		RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
H6	STORAGE	H		RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
I101	CLASSROOM	I	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
I101.A	MECH CLOSET	I		RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
I102	CLASSROOM	I	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
I102.B	MECH CLOSET										
I103	CLASSROOM	I	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
I103.B	MECH CLOSET										
I104	CLASSROOM	I	LVT-1	RB-1	IP-1	IP-1	IP-1	IP-1	IP-2		
I104B	MECH CLOSET										
I106	RESTROOM	I	EPX-1	EPX-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1	IP-2		
I107	BOYS	I	EPX-1	EPX-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1	EPX-1/IP-1	IP-2		
J101	CLASSROOM										REFER TO MODULAR MANUFACTURER
J102	CLASSROOM										REFER TO MODULAR MANUFACTURER
J103	CLASSROOM										REFER TO MODULAR MANUFACTURER
J104	CLASSROOM										11

FINISH LEGEND

ITEM	DESCRIPTION	MANUFACTURER	SERIES	COLOR	SIZE	REMARKS
EP-1	EXTERIOR PAINT, TYPE 1	KELLEY MOORE	N/A	TBD	N/A	
IP-1	INTERIOR PAINT, TYPE 1	KELLEY MOORE	PROMAR 200 ZERO VOC B30W02651	TBD	N/A	EGG-SHELL/FLAT, WALLS
IP-2	INTERIOR PAINT, TYPE 2	KELLEY MOORE	PROMAR 200 ZERO VOC B30W02651	TBD	N/A	CEILINGS
RB-1	RUBBER BASE, TYPE 1	BURKE FLOORING	TYPE TS	TBD	-	
EPX-1	EPOXY WALL, FLOOR, BASE FINISH					
ACT-2	ACOUSTICAL CEILING TILE, TYPE 2	ARMSTRONG / RADAR BASIC	DUNE - 1775HRC / 2310 / 769A	TBD	-	
GWB-1	GYPSUM WALL BOARD CEILING			TBD	N/A	IP-2
GWB-2	GYPSUM WALL BOARD CEILING			TBD	N/A	IP-2; ATTACH FINISH TO (E) CEILING FRAMING
CS-1	CONCRETE FLOORING, SEALED					
LVT-1	LUXURY VINYL TILE, TYPE 1	SHAWN CONTRACT	GRAIN 0364V	TBD	-	

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL H.M. DOORS U.N.O.

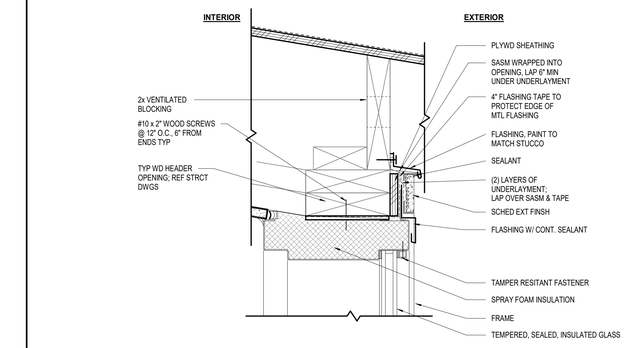
PAINT ALL H.M. DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

LAY-IN CEILING TYPES
- TYPE A: STANDARD MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE B: GLASS FIBER, HIGH NRC, ANTIMICROBIAL, 24"X24"
- TYPE C: VINYL-FACED MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE D: IMPACT RESISTANT, MINERAL FIBER, ANTIMICROBIAL, 24"X24"
- TYPE E: WOOD FIBER, 24"X24"
- TYPE F: MINERAL FIBER, ANTIMICROBIAL, 24"X24"

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO REFLECTED CEILING PLANS
4. 48"H FRP WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES.
5. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
6. 3/4" TREATED PLYWOOD WAINSCOT FULL HEIGHT ALL AROUND, PAINT
7. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
8. DO NOT PAINT ACOUSTICAL STRUCT. DECK
9. 1-HR FIRE RATED CEILING ASSEMBLY
10. HOLD-DOWN CLIPS AT SUSP. LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION
11. REFER TO MODULAR MANUFACTURER SHEETS.

DOOR SCHEDULE

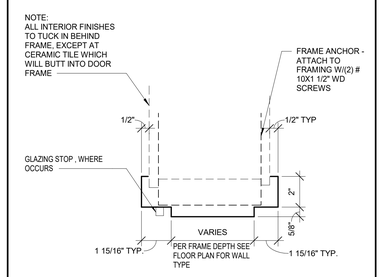
MARK	BUILDING ID	DOOR PANEL OPENING					DOOR FRAME		DETAILS				FIRE RATING LABEL	REMARKS
		PAIR/ SING	SIZE W x H		ELEV.	MATL.	ELEV.	MATL.	HEAD	JAMB	THRESHOLD	H.W.		
			W	H										
A102	BUILDING A	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1	-	1, 37
A102A	BUILDING A	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3	-	36
A103	BUILDING A	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1	-	1, 37
A103A	BUILDING A	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
A104	BUILDING A	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1, 37
A104A	BUILDING A	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
A105	BUILDING A	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1, 37
A105A	BUILDING A	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
A106	BUILDING A	SING	3'-0"	7'-0"	L	HM	1	HM	11/A9.02	5/A9.02	3/A9.02	5		
A107	BUILDING A	SING	3'-0"	7'-0"	L	HM	1	HM	11/A9.02	5/A9.02	3/A9.02	4		
B101	BUILDING B	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1, 37
B101A	BUILDING B	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
B102	BUILDING B	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1, 37
B102A	BUILDING B	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
B103	BUILDING B	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1, 37
B103A	BUILDING B	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
B104	BUILDING B	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1, 37
B104A	BUILDING B	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
C101	BUILDING C	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1, 37
C101A	BUILDING C	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
C102	BUILDING C	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1, 37
C102A	BUILDING C	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
C103	BUILDING C	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1, 37
C103A	BUILDING C	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
C104	BUILDING C	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1, 37
C104A	BUILDING C	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
D17.A	BUILDING D	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	7		1, 37
D17.B	BUILDING D	SING	3'-0"	7'-0"	F	HM	1	HM	11/A9.02	5/A9.02	3/A9.02	7		1, 37
D101.A	BUILDING D	SING	3'-0"	7'-0"	F	HM	1	HM	11/A9.02	5/A9.02	3/A9.02	7		1, 37
D101.B	BUILDING D	SING	3'-6"	7'-0"	F	HM	1	HM	11/A9.02	5/A9.02	3/A9.02	7		1, 37
D101.C	BUILDING D	SING	2'-0"	6'-8"	F	WOOD	1	WOOD				3		36
H1A	BUILDING H	SING	3'-0"	6'-8"	F	WOOD	1	WOOD				1		36
H1B	BUILDING H	SING	3'-0"	6'-8"	F	WOOD	1	WOOD				2		36
H2A	BUILDING H	SING	3'-0"	6'-8"	F	WOOD	1	WOOD				1		36
H2B	BUILDING H	SING	3'-0"	6'-8"	F	WOOD	1	WOOD				1		36
I101A	BUILDING I	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1
I101B	BUILDING I	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
I101C	BUILDING I	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		37
I102A	BUILDING I	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1
I102B	BUILDING I	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
I102C	BUILDING I	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		37
I103A	BUILDING I	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1
I103B	BUILDING I	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
I103C	BUILDING I	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		37
I104A	BUILDING I	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		1
I104B	BUILDING I	SING	2'-6"	6'-8"	F	WOOD	1	WOOD				3		36
I104C	BUILDING I	SING	3'-6"	6'-8"	F	HM	2	HM	11/A.902 SIM	5/A9.02	3/A9.02	1		37
I106	BUILDING I	SING	3'-0"	7'-0"	L	HM	1	HM	11/A9.02	5/A9.02	3/A9.02	5		
I107	BUILDING I	SING	3'-0"	7'-0"	L	HM	1	HM	11/A9.02	5/A9.02	3/A9.02	4		



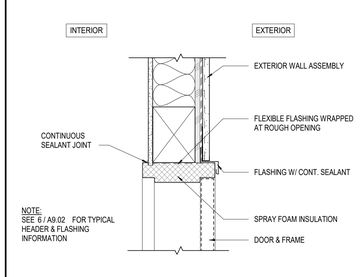
15 EXT. HM DOOR - TRANSOM
SCALE: 3" = 1'-0"

DOOR SCHEDULE REMARKS

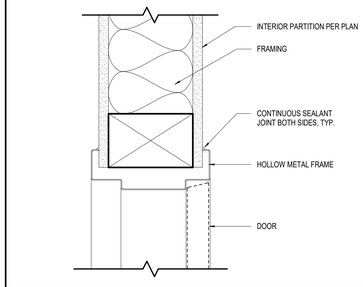
1. PANIC EXIT HARDWARE
2. NOT AN ENTRY DOOR. EXIT ONLY DOOR WITH LOCKING OPERABLE HARDWARE ON SWING-OUT SIDE OF DOOR
3. NO LOCKING HARDWARE
4. ELEC. DOOR OPENER
5. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
6. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
7. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
8. KEYED REMOVABLE CENTER MULLION
9. CENTER ASTRAGAL
10. 180 DEGREE SWING
11. CONT. HINGE
12. WEATHER-STRIP SEAL
13. FIRE SMOKE SEAL
14. SOUND SEAL
15. PEEP HOLE
16. DOOR BUZZER
17. DOOR CHIME ON OPEN
18. MANUAL HOLD-OPEN
19. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
20. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
21. INSULATED DOOR
22. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
23. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMLBY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
24. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
25. MANUAL PUSH-UP OPERATION
26. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
27. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
28. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
29. PANIC EXIT PUSH-BUTTON ON ONE SIDE OF DOOR ONLY
30. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION
31. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION
32. FAIL SAFE IN OPEN POSITION
33. FAIL SAFE IN CLOSED POSITION
34. MAXIMUM OCCUPANCY SIGNAGE NEAR DOOR
35. SIGNAGE ON DOOR TO READ "NOT AN EXIT"
36. (E) DOOR: REPAINT TRIM & DOOR.
37. CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS SHALL INCLUDE LOCKS THAT CAN BE LOCKED FROM THE INSIDE PER CBC 1010.2.8.2.



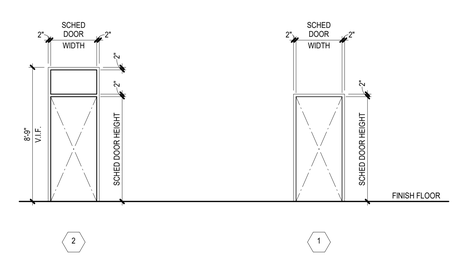
12 TYP HEAD/JAMB - INT. DOOR
SCALE: 3" = 1'-0"



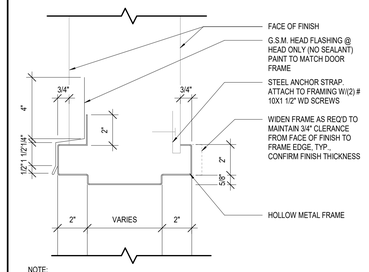
11 EXT. HM DOOR - HEAD
SCALE: 1 1/2" = 1'-0"



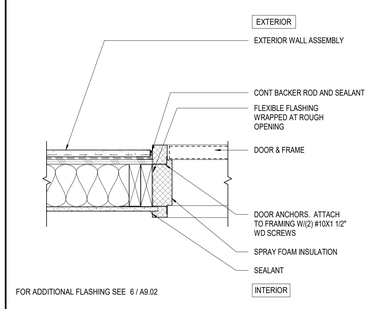
10 HM INTERIOR DOOR - HEAD
SCALE: 3" = 1'-0"



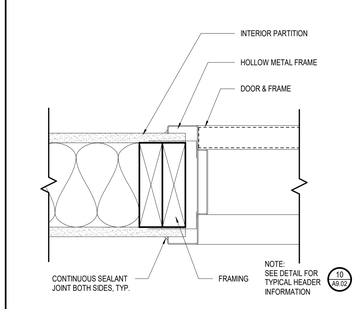
DOOR FRAME ELEVATION TYPES
SCALE: 1/4" = 1'-0"



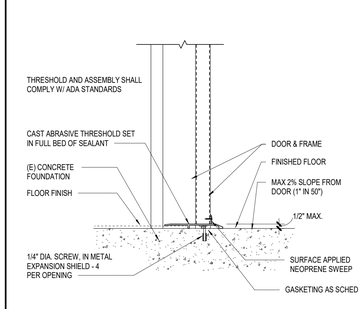
6 TYP HEAD/JAMB - EXT. DOOR
SCALE: 3" = 1'-0"



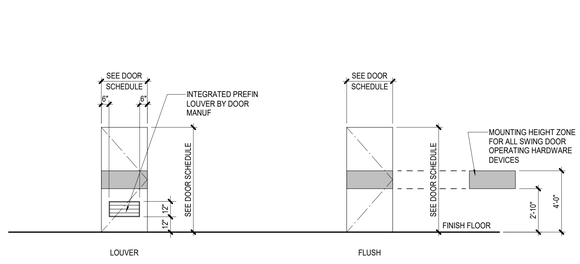
5 EXT. HM DOOR - JAMB
SCALE: 1 1/2" = 1'-0"



4 HM INTERIOR DOOR - JAMB
SCALE: 3" = 1'-0"



3 HM DOOR THRESHOLD
SCALE: 1 1/2" = 1'-0"



DOOR PANEL ELEVATION TYPES
SCALE: 1/4" = 1'-0"

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

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION
DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG

REVISIONS

#	DESCRIPTION	DATE

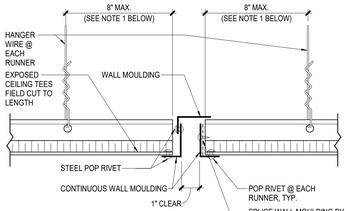
DSA SUBMISSION

This document is for plan review only

DOOR TYPES & DETAILS, SCHEDULES

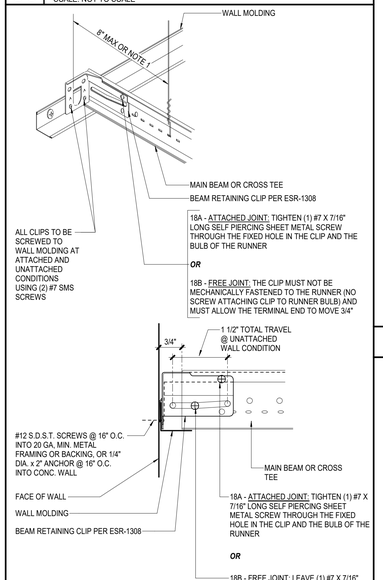
A9.02

D:_RevitLocal\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/24/2026 12:57:59 PM



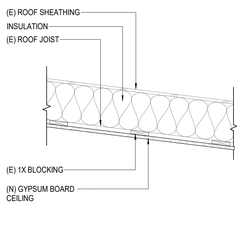
NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF WALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OF LESS.
2. PROVIDE EXPANSION JOINTS AT THE INTERSECTION OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS.

30 EXPANSION JOINT
SCALE: NOT TO SCALE

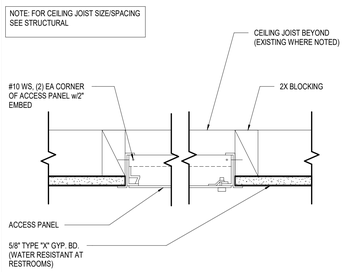


NOTE:
1. 1/4 LENGTH OF END TEE, WHICHEVER IS LESS.
2. GRID MEMBERS SHALL BE ATTACHED TO TWO ADJACENT WALLS, AND UNATTACHED AT OPPOSITE WALLS.

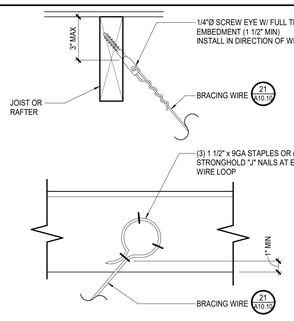
18 PERIMETER CEILING ATTACHMENT
SCALE: NOT TO SCALE

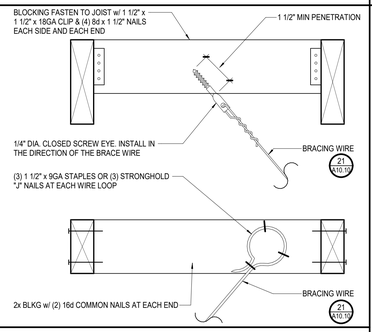


12 (N) GWB-1 CEILING
SCALE: 1" = 1'-0"

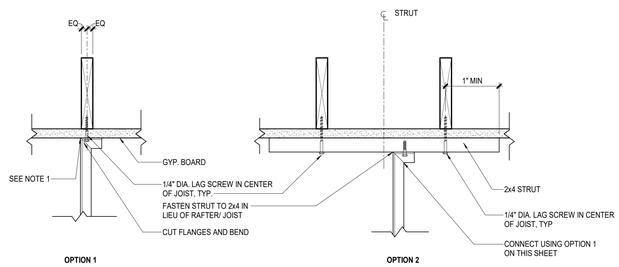


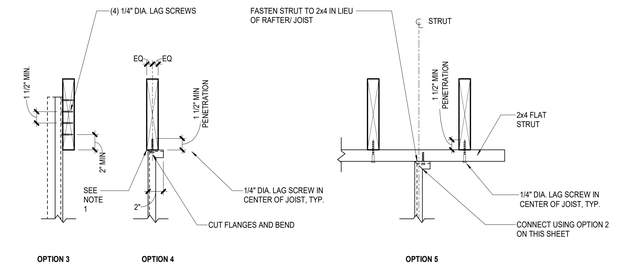
6 ACCESS PANEL
SCALE: 3" = 1'-0"





17 BRACING WIRE ATTACHM'T TO FRAMING
SCALE: NOT TO SCALE

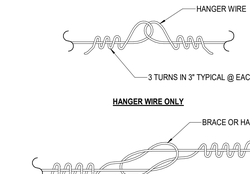




CHANNEL STRUT

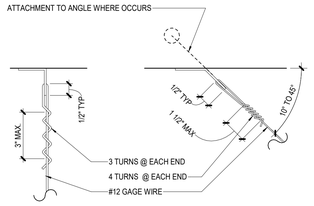
NOTES:
1. WEB OF CHANNEL TO BARE WITHIN WIDTH OF THE WOOD MEMBER.
2. FOR ANGLE OF ORIENTED IN THE STANDARD POSITION, VERTICAL LEG TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. ATTACHMENT TO I-JOIST SIMILAR TO OPTIONS 1, 2, 4, & 5.

5 COMPRESSION STRUT ATTACHMENT
SCALE: 1 1/2" = 1'-0"



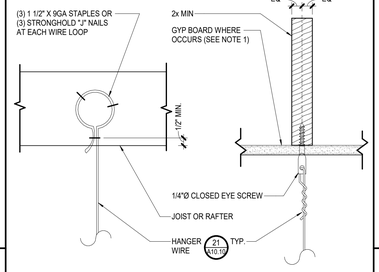
NOTES:
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

27 HANGER / BRACE WIRE SPLICE
SCALE: NOT TO SCALE

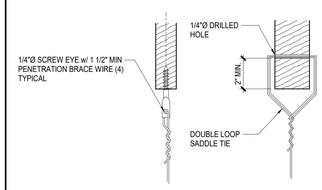


NOTES:
1. FOR HANGER/BRACE WIRE SPLICE, SEE 27 A10.10

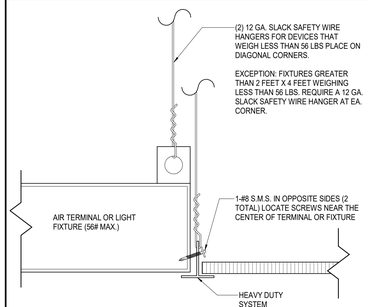
21 HANGER / BRACING WIRE
SCALE: 3" = 1'-0"



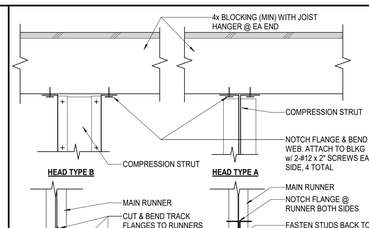
NOTE:
1. WHEN FIRE RATED GYP BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES w/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP BOARD AND MEET MIN PENETRATION.



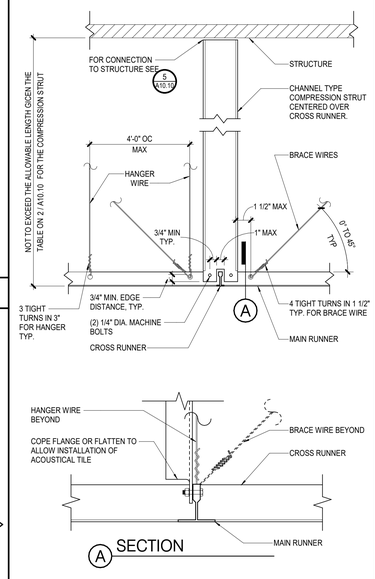
9 HANGER WIRE ATTACHM'T TO FRAMING
SCALE: 3" = 1'-0"



3 LIGHT FIXTURES / AIR TERMINALS
SCALE: 3" = 1'-0"

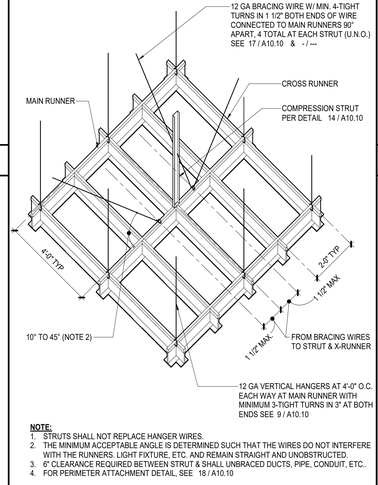


26 COMPRESSION STRUT
SCALE: 1 1/2" = 1'-0"



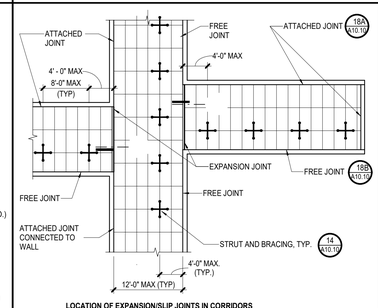
14 COMPRESSION STRUT
SCALE: NOT TO SCALE

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5' - 0"
250S137-33	6' - 10"
362S137-33	8' - 0"
250137-43	8' - 10"
400S137-43	10' - 10"



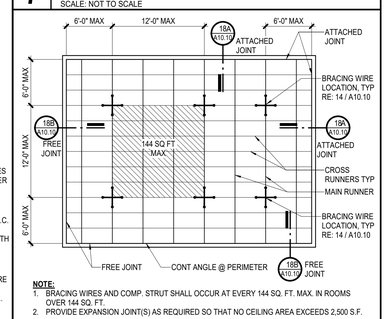
NOTE:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS. LIGHT FIXTURE, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.
3. 6" CLEARANCE REQUIRED BETWEEN STRUT & SHALL UNBRACED DUCTS, PIPE, CONDUIT, ETC..
4. FOR PERIMETER ATTACHMENT DETAIL, SEE 18 / A10.10

2 COMPRESSION STRUT TABLE
SCALE: NOT TO SCALE



LOCATION OF EXPANSION/SLIP JOINTS IN CORRIDORS

7 CORRIDOR CEILING PLAN
SCALE: NOT TO SCALE



NOTE:
1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.
2. PROVIDE EXPANSION JOINT(S) AS REQUIRED SO THAT NO CEILING AREA EXCEEDS 2,500 S.F.

1 TYPICAL CEILING PLAN
SCALE: NOT TO SCALE

GENERAL CEILING PLAN NOTES

1. CEILING SYSTEM GENERAL NOTES:
1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.
1.02 The ceiling grid system shall be rated heavy duty as defined by ASTM C635.
1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:
Manufacturer's name: ARMSTRONG WORLD INDUSTRIES, INC.
Product evaluation report type and number: ICC-ES ESR-1308
Manufacturer's model number - main runner: 7301 - Prelude XL heavy duty
7501 - Suprafine XL heavy duty
Manufacturer's catalog number - cross runner: XL 7342 (24"x48" GRID)
XL 7328 (24"x24" GRID)
XL 7540 (24"x48" GRID)
XL 7520 (24"x24" GRID)
1.04 Seismic wall clip:
Manufacturer's model: BERC-2 - 2" BEAM END RETAINING CLIP
1.05 Ceiling panels shall not support any luminaires, air terminals, or devices.
1.06 For acoustical tile panels of any material other than mineral or glass fiber, a ¼" clearance shall be provided between the panel and the wall on the sides of the ceiling free toslip. Clearance between ceiling grid runners and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS:
2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.
2.02 Galvanized sheet steel (including that used for metal stud compression struts) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) thick and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) thick and heavier shall have a minimum yield strength of 50 ksi.
2.03 Electrical metallic tube (EMT) shall conform to ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength of 30 ksi and minimum ultimate strength of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES:
3.01 All ceiling hanger and bracing wires shall be separated at least 6 inches from all unbraced ducts, pipes, conduit, etc.
3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit, and equipment.
3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.
3.05 Hanger and bracing wire anchorage to the structure shall be installed such that the direction of the anchorage aligns with the direction of the wire. Bracing wire ceiling clips shall be bent as shown in the details and rotated as required to align with the direction of the wire. Screws in wood shall be installed to align with the direction of the wire.

4. FASTENERS AND WELDING:
4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
4.02 Expansion anchors shall be: Hilti KB-TZ2 1/2" Ø x 2 x12" nominal embedment (ICC ESR-4561). Torque test to 25ft-lb.
4.03 Power-Actuated Fasteners shall be: Hilti X-U x 1" embedment @ 24" (ICC ESR-2269)
4.04 If not otherwise specified in the evaluation report, power-actuated fastened installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member
4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracingwires.
4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.
4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING:
5.01 All field testing shall be performed in the presence of the project inspector.
5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested ata frequency of 50 percent and in accordance with CBC Section 1910A.5.

6. LUMINAIRES:
6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire per ASTM E580 Section 5.3.1.
6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches are not permitted. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Additional supports shall be provided when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.
6.03 Luminaires weighing less than or equal to 10 pounds supported directly on the ceiling runners shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.
6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds supported directly on the ceiling runners shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.
6.05 All luminaires weighing greater than 56 pounds shall be independently supported from the structure above. See support details on these drawings for more information.

7. SERVICES WITHIN THE CEILING:
7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals, or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or other fasteners specified on the drawings are required. A minimum of two attachments are required at each component.
7.02 Ceiling-mounted services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.
7.03 Ceiling-mounted services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
7.04 Ceiling-mounted services weighing more than 56 pounds shall be independently supported from the structure above. See support details on these drawings for more information.

8. OTHER DEVICES WITHIN THE CEILING:
8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. Devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be independently supported from the structure above.

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA SUBMISSION
DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

CEILING DETAILS

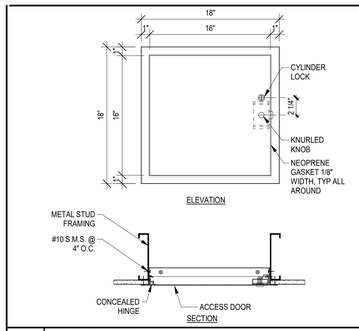
This document is for plan review only

A10.10

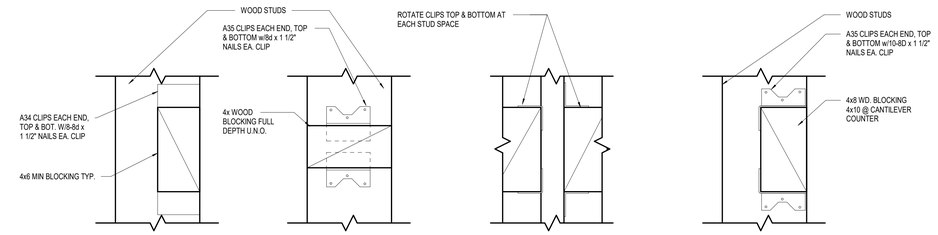
D:_Revit\Local\230217_LUSD Davis ES Mod_A21_Brie.Gargano.rvt
3/24/2026 12:58:02 PM

GENERAL CASEWORK NOTES

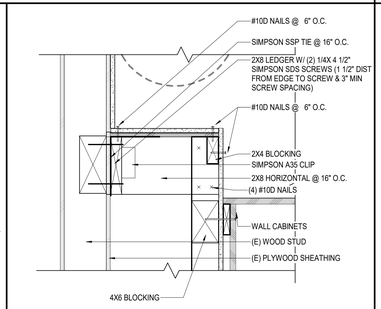
1. BASIS-OF-DESIGN FOR ALL NON-SCIENCE CASEWORK SHALL BE _____ U.N.O.
2. BASIS-OF-DESIGN FOR ALL SCIENCE CASEWORK SHALL BE _____ U.N.O.
3. FIELD VERIFY ALL CASEWORK-RELATED DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION
4. VERIFY ALL COLUMN LOCATIONS PRIOR TO FABRICATION AND INSTALLATION
5. REFER TO MEPT DOCUMENTS FOR ALL DATA OUTLETS AND DEVICES, ELECTRICAL OUTLETS AND DEVICES, AND PLUMBING FIXTURES, NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION
6. ALL CASEWORK BASE CABINETS SHALL BE 24 INCHES IN DEPTH, U.N.O.
7. ALL CASEWORK UPPER WALL CABINETS SHALL BE 14 INCHES IN DEPTH, U.N.O.
8. ALL COUNTER TOPS, VERTICAL SURFACES, NOSINGS, AND BACK SPLASHES SHALL BE PLASTIC LAMINATE FINISH, U.N.O.
9. PROVIDE AND INSTALL SIDE SPLASHES WHERE COUNTER TOP ENDS ABUT WALL SURFACES
10. PROVIDE AND INSTALL 4 INCH HIGH TOE SPACE WITH WALL BASE AT ALL CASEWORK, WALL BASE TO MATCH ROOM WALL BASE
11. PROVIDE AND INSTALL WALL ANCHORED VERTICAL SUPPORTS AT ALL KNEE SPACES GREATER THAN 48 INCHES WIDE
12. PROVIDE AND INSTALL GROMMETS WITH SLEEVES AT ALL KNEE SPACES
13. ALL CASEWORK UNITS 36 INCHES WIDE AND GREATER WITH SHELVING SHALL HAVE A CENTER FIXED SHELF
14. ALL SHELVING 36 INCHES WIDE AND GREATER SHALL BE SHALL BE 1 INCH THICK MINIMUM
15. ALL ADJUSTABLE SHELVING SHALL HAVE RECESSED STANDARDS HARDWARE
16. PROVIDE AND INSTALL FILLER PANELS WITH TOP RETURNS AT ALL SIDES, CORNERS, AND COLUMNS TO PREVENT THE CONTACT OF DOORS WITH ADJACENT SURFACES
17. PROVIDE AND INSTALL LOCKS AT ALL BASE CABINETS AND ALL UPPER WALL CABINETS



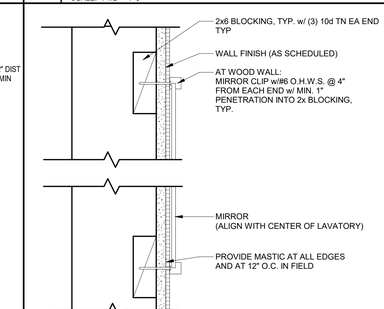
22 ACCESS DOOR
SCALE: 1 1/2" = 1'-0"



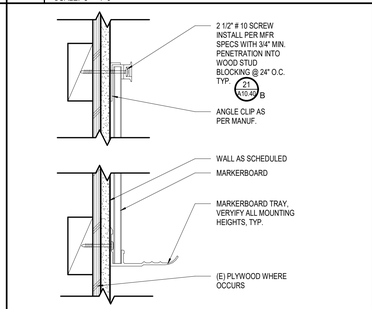
21 TYP. WOOD BLOCKING
SCALE: 3" = 1'-0"



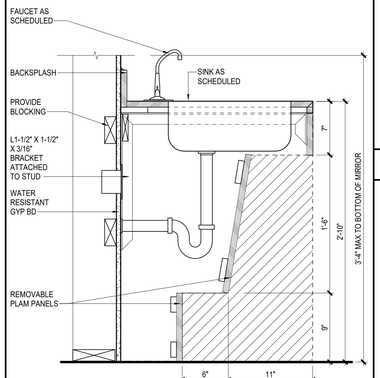
17 FURRING WALL CONNECTION
SCALE: 1 1/2" = 1'-0"



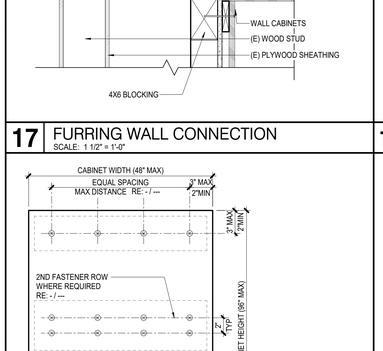
16 MIRROR ATTACHMENT
SCALE: 3" = 1'-0"



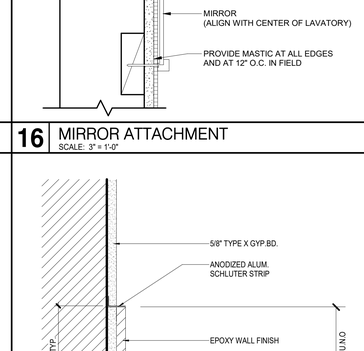
15 MARKERBOARD ATTACHMENT
SCALE: 3" = 1'-0"



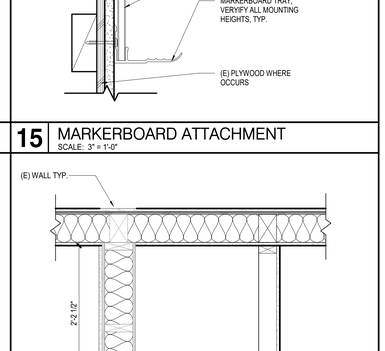
12 ADA SINK @ CLASSROOM
SCALE: 1 1/2" = 1'-0"



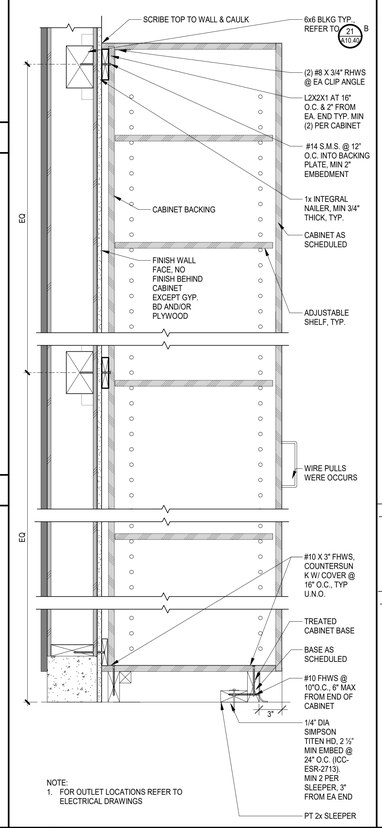
11 CABINET FASTENER LOCATIONS
SCALE: 1 1/2" = 1'-0"



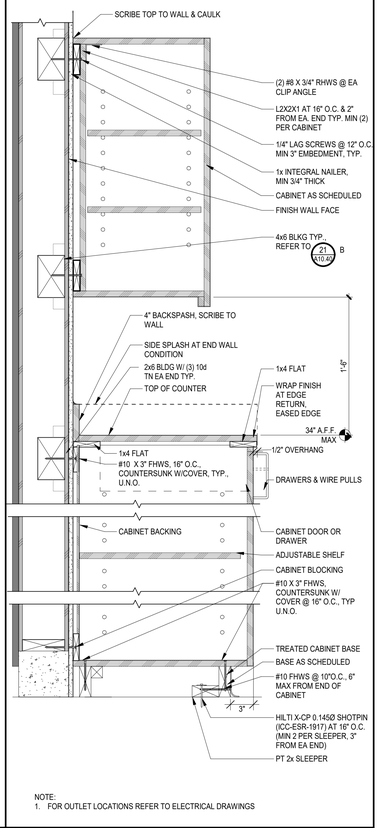
10 TOP OF EPOXY
SCALE: 3" = 1'-0"



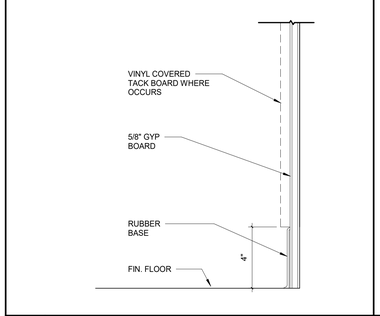
9 CHASE AT CLASSROOM
SCALE: 1" = 1'-0"



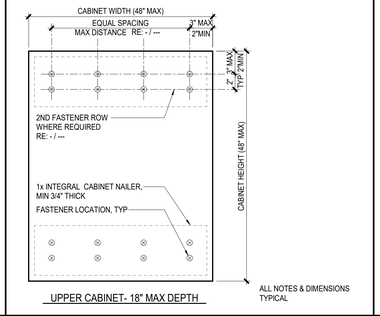
2 TYP. CASEWORK - TALL
SCALE: 1 1/2" = 1'-0"



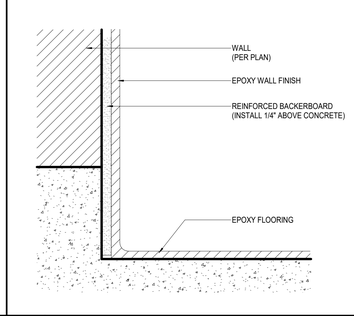
1 TYPICAL CASEWORK
SCALE: 1 1/2" = 1'-0"



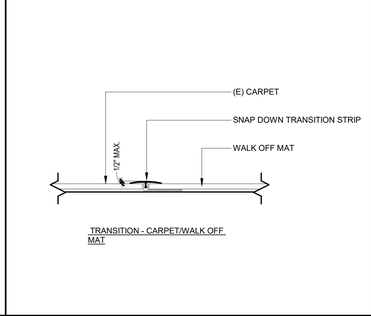
6 BASE DETAIL
SCALE: 3" = 1'-0"



5 CABINET FASTENER LOCATIONS
SCALE: 1 1/2" = 1'-0"



4 EPOXY FLOOR / WALL TRANSITION
SCALE: 3" = 1'-0"



3 FLOORING TRANSITION
SCALE: 6" = 1'-0"

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

DSA-APPL. NO. 02-123250 FILE NO. 39-50

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2027
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

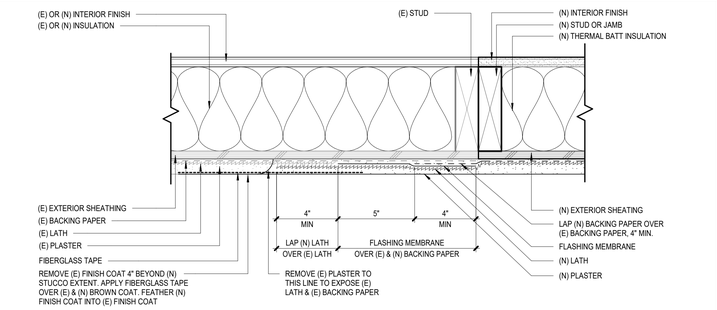
#	DESCRIPTION	DATE

DSA SUBMISSION

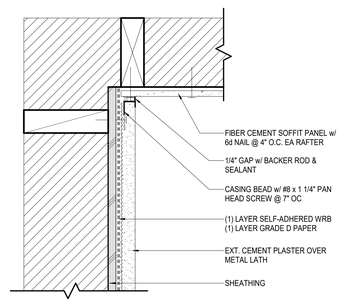
INTERIOR DETAILS

A10.40

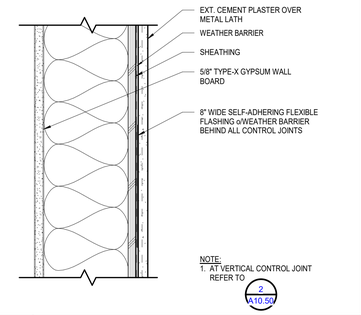
This document is for plan review only



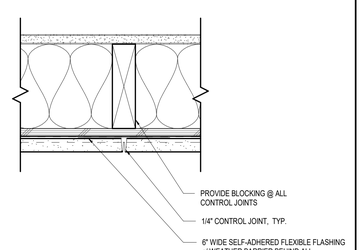
20 EXTERIOR PLASTER WALL INFILL (JAMB & HEAD SIM.)
SCALE: 3" = 1'-0"



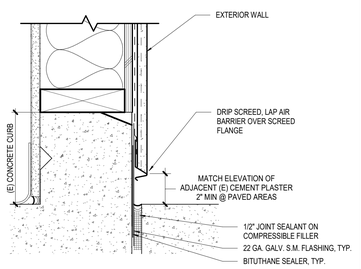
8 PLASTER @ TOP OF WALL
SCALE: 3" = 1'-0"



7 TYP. PLASTER WALL - EX1
SCALE: 3" = 1'-0"



2 VERT. CONTROL JOINT @ PLASTER
SCALE: 3" = 1'-0"



1 BASE @ PLASTER WALL
SCALE: 3" = 1'-0"

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA SUBMISSION

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

LICENSED ARCHITECT
MICHELE GARGANO
C-32550
REN. 03-31-2022
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: MG / ED CHKED BY: MG
REVISIONS

#	DESCRIPTION	DATE

DSA SUBMISSION

EXTERIOR DETAILS

This document is for plan review only

A10.50

ABBREVIATIONS AND LEGEND

010000-0002

AB	ANCHOR BOLT
ABV	ABOVE
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BN	BOUNDARY NAILING
B.O.	BOTTOM OF
BOTT	BOTTOM
BRB	BUCKLING-RESTRAINED BRACE
BRG	BEARING
BS	BOTH SIDES
BTWN	BETWEEN
C	CAMBER
CG	CENTER OF GRAVITY
CIP	CAST IN PLACE
CJ	CONTROL/CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CSK	COUNTERSINK, COUNTERSUNK
CTR(D)	CENTER(ED)
D_B, DB	BAR DIAMETER OR BOLT DIAMETER
DBL	DOUBLE
DEMO	DEMOLITION
DET	DETAIL
DIA, Ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
DO	DITTO
DWG	DRAWING
(E)	EXISTING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EMBED	EMBEDMENT
ELEC	ELECTRICAL
ELEV	ELEVATION OR ELEVATOR
EN	EDGE NAILING
E.O.	EDGE OF
EOD	EDGE OF DECK
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE OR EDGE SCREW
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAILING
FND	FOUNDATION
F.O.	FACE OF
FS	FAR SIDE OR FIELD SCREW
FRMG	FRAMING
FRP	FIBER REINFORCED POLYMER
FT	FOOT OR FEET
FTG	FOOTING
Fy	YIELD STRESS
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GLB	GLUED-LAMINATED BEAM
HAB	HEADED ANCHOR BOLT
HD	HOLDOWN
HDG	HOT-DIPPED GALVANIZED
HDR	HEADER
HGR	HANGER
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HIGH-STRENGTH
HSB	HIGH-STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
IN	INCH
INT	INTERIOR
IOR	INSPECTOR OF RECORD
JST	JOIST
JT	JOINT
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE
LD	DEVELOPMENT LENGTH
LDH	HOOK DEVELOPMENT LENGTH
LFRS	LATERAL FORCE RESISTING SYSTEM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LP	LOW POINT
LS	LAP SPLICE
LWC	LIGHTWEIGHT CONCRETE
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MTL	METAL
(N)	NEW
NA	NEUTRAL AXIS
NS	NEAR SIDE OR NON-SHRINK
NTS	NOT TO SCALE
NWC	NORMALWEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
PDF	POWDER/POWER DRIVEN FASTENER
PJ	PANEL JOINT
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLC(S)	PLACE(S)
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED OR POST TENSION
QTY	QUANTITY
RAD, R	RADIUS
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
(S)	"SIMPSON" STRONG TIE CO. OR "USP" W/ EQUIVALENT THIRD PARTY EVALUATION VALUES
SB	SILL BOLT
SC	SAW CUT OR SLIP-CRITICAL
SCHED	SCHEDULE
SEOR	STRUCTURAL ENGINEER OF RECORD
SHTG	SHEATHING
SIM	SIMILAR
SMS	SHEET METAL SCREW
SN	SILL NAIL
SOG	SLAB ON GRADE
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STGRD	STAGGERED
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
T&B	TOP & BOTTOM
T&G	TONGUE AND GROOVE
THK	THICK
THRD	THREADED
T.O.	TOP OF
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WF, W	WIDE FLANGE
WHS	WELDED HEADED STUD
WLD	WELDED
WO	WHERE OCCURS
WP	WORK POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

REFERENCE ELEVATION OR WORK POINT

LFRS (LFRS) — INDICATES THAT A DETAIL OR PORTION OF FRAMING IS A PART OF THE LATERAL FORCE RESISTING SYSTEM AND IS SUBJECT TO ADDITIONAL REQUIREMENTS OUTLINED IN THE GENERAL NOTES AND SPECIFICATIONS

TYPICAL HATCH PATTERNS USED (UNLESS NOTED OTHERWISE):

CONCRETE · STEEL · SOIL/EARTH
MASONRY · GROUT/SAND · PLYWOOD/SHEATHING

EXISTING ELEMENTS ARE SHOWN AS HALFTONE, NEW ELEMENTS ARE SHOWN AS FULL TONE UNO; EXAMPLE:

INDICATES A NEW ELEMENT

INDICATES AN EXISTING ELEMENT

SAWN LUMBER:

CONTINUOUS · BLOCKING · END OF MEMBER

REFERENCE OF SECTIONS, DETAILS & SYMBOLS

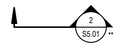
010000-0004

DETAIL REFERENCE SHOWN THUS *:



DETAIL NOTED IS SHOWN ON SHEET S5.01, DETAIL 2

BUILDING SECTION INDICATION SHOWN THUS:



CUT IS SHOWN ON SHEET S5.01, DETAIL 2

ELEVATION INDICATION SHOWN THUS:



ELEVATION IS SHOWN ON SHEET S5.01, DETAIL 2

* (ADDITIONAL INDICATORS MAY BE USED TO SHOW LOCATION OF DETAIL CUTS)
** (SHEET NUMBER MAY BE REPLACED BY A HYPHEN (-) WHEN THE REFERENCED DETAIL APPEARS ON THE SAME SHEET AS THE CALL-OUT)

DETAIL TITLE SHOWN THUS:



INDICATES THE TITLE, SCALE, AND DETAIL NUMBER ON SHEET

STRUCTURAL SUBMITTALS

010000-0006

1. THE FOLLOWING LIST SUMMARIZES REQUIRED STRUCTURAL SUBMITTALS FOR THIS PROJECT. REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST AND ADDITIONAL REQUIREMENTS.

GENERAL
- QUALIFICATION DATA FOR APPROVED INSTALLERS AND FABRICATORS
- CERTIFICATES OF CONFORMANCE FOR PREFABRICATED MEMBERS

CONCRETE REINFORCEMENT
- MANUFACTURER'S PRODUCT DATA, SPECIFICATIONS AND INSTALLATION PROCEDURES FOR PROPRIETARY MATERIALS AND REINFORCEMENT
- STEEL PRODUCER'S CERTIFICATES OF MILL ANALYSIS, TENSILE AND BEND TESTS
- SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT

CAST-IN-PLACE CONCRETE
- DESIGN MIX FOR EACH CONCRETE MIX
- MATERIAL TEST REPORTS
- MATERIAL CERTIFICATES FOR CEMENT, AGGREGATES AND ADMIXTURES
- SHOP DRAWINGS FOR PROPOSED LOCATIONS OF ADDITIONAL CONSTRUCTION OR CONTROL JOINTS NOT SHOWN ON THE STRUCTURAL PLANS
- MINUTES FROM PREINSTALLATION CONFERENCE

ROUGH CARPENTRY
- PRODUCT DATA FOR TREATMENTS AND PRESERVATIVES
- MATERIAL CERTIFICATES FOR DIMENSION LUMBER

EXISTING CONDITIONS

020000-0000

1. SEE "AS BUILT" DRAWINGS FOR EXISTING BUILDING ITEMS NOT SHOWN OR NOTED.
2. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO SHOP DRAWING PRODUCTION AND FABRICATION OF STRUCTURAL ELEMENTS.
3. WHERE EXISTING CONDITIONS VARY FROM THOSE SHOWN ON THESE DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT CONDITIONS.
4. SHORE ALL EXISTING CONSTRUCTION AS REQUIRED, INCLUDING WHERE WELDING TO EXISTING STEEL FRAMING. SHORING DESIGN IS BY OTHERS.
5. ALL EXISTING CONCRETE SURFACES TO BE IN CONTACT WITH NEW CONCRETE SHALL BE CLEANED AND ROUGHENED TO 1/4" MINIMUM AMPLITUDE. USE BONDING AGENT BY SIKA OR APPROVED EQUIVALENT ON EXISTING CONCRETE PRIOR TO PLACING NEW CONCRETE, PREPARE SURFACE AND APPLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. VERIFY LOCATION OF EXISTING REBAR BEFORE FABRICATION USING NON-DESTRUCTIVE TESTING. DO NOT DAMAGE EXISTING REBAR.
7. THE GENERAL CONTRACTOR SHALL COORDINATE THE WEIGHT AND SPECIFIC LOCATION OF ALL EQUIPMENT WITH THE STRUCTURAL FRAMING. IF THE EQUIPMENT DEVIATES IN WEIGHT OR LOCATION FROM THOSE INDICATED IN THE DRAWINGS, THE STRUCTURAL ENGINEER'S APPROVAL MUST BE OBTAINED PRIOR TO INSTALLATION OF THE UNITS.
8. ALL EXISTING WOOD FRAMING MEMBERS SUPPORTING NEW MECHANICAL UNITS SHALL BE INSPECTED FOR DAMAGE AND DETERIORATION PRIOR TO INSTALLATION OF THE UNITS. NOTIFY THE STRUCTURAL ENGINEER IF DAMAGE OR DETERIORATION IS DISCOVERED.

STRUCTURAL TESTS AND SPECIAL INSPECTIONS

010000-0005/DSA

1. THE OWNER SHALL EMPLOY ONE OR MORE DSA APPROVED SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF DSA, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
2. SEE DSA FORM DSA 103 FOR ALL REQUIRED STRUCTURAL TESTS AND SPECIAL INSPECTIONS.
3. ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR DSA DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.
4. ALL INSPECTION REPORTS SHALL BE SUBMITTED TO DSA AND SEOR, AOR, CONTRACTOR AND SCHOOL DISTRICT. THE FINAL REPORT BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
5. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
6. WORK REQUIRING SPECIAL INSPECTION SHALL BE OBSERVED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF WORK. CONTINUOUS INSPECTION CONSISTS OF FULL-TIME INSPECTION, PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION.

STRUCTURAL OBSERVATIONS

010000-0007

1. VISUAL OBSERVATIONS WILL BE PERFORMED AT THE DISCRETION OF THE OWNER, ARCHITECT, SEOR, AND AS REQUIRED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE BUILDING CODE. VISUAL OBSERVATIONS SHALL NOT BE CONSIDERED AS A SUBSTITUTE FOR THE SPECIAL INSPECTION REQUIREMENTS.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE SEOR AS TO WHEN EACH MAJOR PHASE OF CONSTRUCTION IS READY FOR OBSERVATION A MINIMUM OF FIVE BUSINESS DAYS IN ADVANCE.
3. THE FOLLOWING MAJOR PHASES OF CONSTRUCTION REQUIRE A SITE VISIT AND STRUCTURAL OBSERVATION REPORT FROM THE SEOR:
   a. FOUNDATION REBAR AND ANCHORS - PRIOR TO FIRST POUR OF CONCRETE
   b. STRUCTURAL FRAMING - AFTER ERECTION AND PRIOR TO CLOSING IN
   c. COMPLETION OF THE STRUCTURAL SYSTEM
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NAILING, REINFORCEMENT, WELDS, CONNECTIONS, ETC. ARE VISIBLE FOR OBSERVATION WHEN THE SEOR IS ONSITE AND FOR ANY SCHEDULING DELAYS DUE TO NONCOMPLIANT ITEMS FOUND DURING THE OBSERVATION.
5. AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVERS' KNOWLEDGE, HAVE NOT BEEN RESOLVED.

PRODUCT REPORTS

010000-0008

1. FOR ALL ITEMS IN THE CONSTRUCTION DOCUMENTS NOT NOTED WITH A SPECIFIC PRODUCT NAME OR MANUFACTURER, THE CONTRACTOR SHALL PROVIDE A PRODUCT SPECIFIED IN THE TABLE BELOW.
2. THE FOLLOWING PRODUCTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE REFERENCED PRODUCT REPORTS, UNO.
3. A PRODUCT MAY BE SUBSTITUTED FOR AN EQUIVALENT PRODUCT PER THE SCHEDULE BELOW IF APPROVED BY THE SEOR AND THE BUILDING OFFICIAL.
4. PRODUCTS SPECIFIED BY TYPE ONLY MAY USE ANY PRODUCT FROM THE SCHEDULE BELOW.

TYPE	PRODUCT	ICC#	IAPMO#	LARR#
ADHESIVE ANCHOR TO CONCRETE	SIMPSON SET-3G	ESR-4057	-	-
SCREW ANCHOR TO CONCRETE	SIMPSON TITEN HD	ESR-2713	-	-
SHOTPIN (POWER DRIVEN FASTENER) **	SIMPSON POWER-ACTUATED PDPA	ESR-2138	-	25469
WOOD FRAMING CLIPS	SIMPSON STRONG-TIE CLIPS	ESR-2523	-	-
	USP STRUCTURAL CONNECTORS	ESR-2585	-	-
WOOD SCREWS	SIMPSON STRONG DRIVE SCREWS (SDS)	ESR-2236	-	25711

FOOTNOTES:
*** AT TREATED LUMBER, PROVIDE GALVANIZED FASTENERS IN ACCORDANCE WITH PRODUCT REPORTS.

GENERAL

010000-0000

1. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE SEOR PRIOR TO FABRICATION AND INSTALLATION. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.
2. CONTRACTOR SHALL CONSIDER THE PROJECT SPECIFICATIONS AS PART OF THE CONTRACT DOCUMENTS. WHERE INFORMATION IS CONFLICTING, SPECIFIC DETAILS SHALL GOVERN OVER TYPICAL DETAILS WHICH SHALL GOVERN OVER GENERAL NOTES WHICH SHALL GOVERN OVER SPECIFICATIONS.
3. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ARCHITECT OF RECORD OR SEOR. ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. DIMENSIONS ARE TO THE FACE OF STUDS, AND TO THE CENTERLINE OF COLUMNS UNO.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE SEOR OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER DRAWINGS, OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS, PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL NOT ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE SCOPE THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
5. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR SEOR SHALL NOT INCLUDE OBSERVATION OF THE ABOVE ITEMS.
6. SUBSTITUTION REQUESTS FOR MATERIALS AND PRODUCTS SPECIFIED ON THE STRUCTURAL DRAWINGS MAY BE CONSIDERED WITH MATERIALS AND PRODUCTS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE SEOR DEMONSTRATING THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. WRITTEN APPROVAL FROM THE SEOR SHALL BE OBTAINED PRIOR TO THE SUBSTITUTION OF ANY MATERIAL OR PRODUCT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. THE ARCHITECT, SEOR, AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
8. ALL WORK IS NEW (N) UNLESS INDICATED AS EXISTING (E).
9. CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT LOADS DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED CONDITION.
10. SHOP DRAWINGS AND SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY TO THE SEOR FOR REVIEW PRIOR TO FABRICATION (ALLOW FOR A REVIEW DURATION OF 10 BUSINESS DAYS). REFER TO THE PROJECT SPECIFICATIONS FOR MORE INFORMATION. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE SEOR IS FOR GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. REPRODUCTION OF STRUCTURAL PLANS AND DETAILS FOR SHOP DRAWINGS IS PROHIBITED. SUBCONTRACTOR/FABRICATOR IS TO PROVIDE INDEPENDENTLY CREATED DRAWINGS BASED ON THE STRUCTURAL PLANS AND DETAILS. SHOP DRAWINGS THAT ARE REPRODUCTIONS OF STRUCTURAL DRAWINGS WILL NOT BE REVIEWED. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING AND FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS, INCLUDING COORDINATION WITH OTHER TRADES. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND SEOR FOR APPROVAL.
11. CORE DRILLS SHALL NOT CUT ANY REINFORCING. THE CONTRACTOR IS TO COORDINATE WORK OF ALL TRADES TO ENSURE COMPLIANCE. ALL CORE DRILLS ARE TO BE PRESENTED TO THE INSPECTOR OF RECORD (IOR) FOR VERIFICATION. THE IOR IS TO DOCUMENT CORES EXAMINED INDICATING AN ABSENCE OF REINFORCING.
12. STRUCTURAL JOINT DIMENSIONS SHOWN ON PLANS (EXPANSION, SEISMIC, SEPARATION, ETC) (WHERE OCCURS) INDICATE THE MINIMUM CLEAR DISTANCE REQUIRED. SEE PLANS, DETAILS, AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

STRUCTURAL DESIGN CRITERIA

010000-0001

1. CODES:
   ALL NEW WORK SHALL BE IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE (CBC) 2022 EDITION (TITLE 24, PART 2), INCLUDING ALL DSA AMENDMENTS. ALL STANDARDS USED SHALL BE THE LATEST VERSION APPROVED BY THE CODE ENFORCEMENT AGENCY ON THE DATE OF THE PERMIT ISSUANCE UNLESS SPECIFICALLY NOTED OTHERWISE. THE PURPOSE OF THIS CODE IS TO, IN PART, ESTABLISH THE MINIMUM REQUIREMENTS TO SAFEGUARD THE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE THROUGH STRUCTURAL STRENGTH AND STABILITY. STRUCTURES DESIGNED IN ACCORDANCE WITH THE CODE ARE LIKELY TO HAVE A LOW PROBABILITY OF COLLAPSE BUT MAY SUFFER SERIOUS STRUCTURAL AND NON-STRUCTURAL DAMAGE IF SUBJECTED TO THE DESIGN EARTHQUAKE.

2. GRAVITY	
LIVE LOADS (REDUCIBLE, UNO)	
ROOF, UNIFORM	20 PSF
FLOOR(S) - CLASSROOM	
UNIFORM	50 PSF
OR, CONCENTRATED IN 2.5 FT x 2.5 FT	1000 LBS
3. RISK CATEGORY	III
4. SEISMIC	
IMPORTANCE FACTOR I_e	1.25
SITE CLASS	D (DEFAULT)
SEISMIC DESIGN CATEGORY	D
S_S	0.646
S_1	0.263
S_{DS}	0.553
S_{D1}	0.364
LATERAL FORCE RESISTING SYSTEM	A.16. WOOD SHEAR WALLS
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
5. WIND	
EXPOSURE CATEGORY C_e	C
BASIC WIND SPEED (3 SECOND GUST)	Vult = 100 MPH Vasd = 78 MPH
INTERNAL PRESSURE COEFFICIENT, GCpi	+/-0.18

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME
S0.01	GENERAL NOTES
S0.02	GENERAL MATERIAL NOTES
S0.11	TYPICAL FOUNDATION & SOG DETAILS
S0.13	TYPICAL CONCRETE DETAILS
S0.61	TYPICAL WOOD DETAILS
S1.01	FOUNDATION PLANS
S1.02	FOUNDATION PLANS
S2.01	ROOF FRAMING PLANS
S2.02	ROOF FRAMING PLAN
S3.01	EXTERIOR ELEVATIONS BLDGS A, B, C
S3.02	EXTERIOR ELEVATIONS BLDGS D, H, I
S5.01	DETAILS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

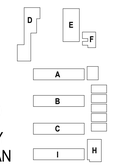
STRUCTURAL ENGINEER
miyamoto.
1400 Halyard Drive, Suite One
West Sacramento, CA 95691
T: (916) 373-1995
miyamotointernational.com
M2301020_R21

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
100% CONSTRUCTION DOCUMENTS
DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER D. DETERMAN
No. S4654
STRUCTURAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 09/03/2025
DRAWN BY: CR CHKED BY: JE

REVISIONS

#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

GENERAL NOTES

S0.01

This document is for plan review only

POST-INSTALLED ANCHOR TESTING

032000-0000-DSA/OSHPD

1. ALL POST-INSTALLED ANCHORS ARE TO BE TENSION TESTED WITH THE EXCEPTION THAT TORQUE TESTING IS ALLOWED IF THE ANCHORS ARE SPECIFICALLY DESIGNED AS TORQUE CONTROLLED.
2. TEST QUANTITY OF POST-INSTALLED ANCHORS AS NOTED BELOW:

APPLICATION	QUANTITY
SILL PLATES	10%
NON-STRUCTURAL (EQUIPMENT ANCHORAGE, ETC.)	50%
STRUCTURAL	100%

3. APPLY PROOF TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
4. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE INSPECTOR.
5. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING OR RESTRICTED FROM A CONCRETE SHEAR CONE TYPE FAILURE MECHANISM.
6. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
7. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
   a. HYDRAULIC RAM METHOD: ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST, E.G. AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.
   b. TORQUE WRENCH METHOD: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE MANUFACTURER RECOMMENDED TORQUE WITHIN 1/2 TURN OF THE NUT.
      EXCEPTIONS:
      i. WEDGE OR SLEEVE TYPE: ONE-QUARTER TURN OF THE NUT FROM 3/8" SLEEVE ANCHOR ONLY.
      ii. THREADED TYPE: ONE-QUARTER TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.
8. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL TWENTY CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. IF THE ANCHORS ARE USED FOR THE SUPPORT AND BRACING OF NON-STRUCTURAL COMPONENTS (PIPE, DUCT OR CONDUIT), THE TWENTY SHALL BE ONLY THOSE ANCHORS INSTALLED BY THE SAME TRADE.
9. RE-USE OF SCREW ANCHORS OR HOLES IS NOT PERMITTED.
10. AN ACI-CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER IS REQUIRED FOR THE INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL AND OVERHEAD CONDITIONS.
11. TEST LOADS:

ANCHOR		TORQUE (FT-LBS)
TYPE	SIZE (IN)	
SIMPSON TITEN HD SCREWS	5/8	65

POST-INSTALLED ANCHORS AND DOWELS

030000-0000

UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE FOLLOWING APPLIES TO ALL POST-INSTALLED ANCHORS INTO HARDENED CONCRETE OR MASONRY, WHICH INCLUDES TYPES SUCH AS EXPANSION, WEDGE, SLEEVE, ADHESIVE/EPOXY, SHOT-PIN, SCREW AND UNDERCUT.

1. INSTALL PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) EXCEPT AS OTHERWISE STATED IN THE SPECIFIED PRODUCT REPORTS. USE INSTALLATION PROCEDURES FOR CRACKED CONCRETE CONDITIONS. DO NOT USE CORE DRILL BITS FOR ANCHOR HOLES WITHOUT PRIOR SEOR APPROVAL. COPIES OF INSTALLATION INSTRUCTIONS SHALL BE MAINTAINED ON SITE.
2. CLEAN OUT ANCHOR HOLES AND SET ANCHORS PER THE PRODUCT'S THIRD PARTY EVALUATION REPORT FOR THE APPROPRIATE CONDITIONS. INSTALL UNDER SUPERVISION OF THE SPECIAL INSPECTOR WHERE REQUIRED.
3. PROVIDE CARBON STEEL ANCHORS AT DRY INTERIOR LOCATIONS AND STAINLESS STEEL TYPE 304 OR 316 AT EXTERIOR LOCATIONS AND DAMP INTERIOR LOCATIONS.
4. REINFORCING BARS TO RECEIVE CONCRETE COVER MAY BE UNCOATED.
5. ANCHORS SHALL BE CLEAN AND FREE OF DEBONDING SUBSTANCES.
6. EMBEDMENT REFERS TO THE FINAL INSTALLED EFFECTIVE DEPTH "hef" AS DEFINED IN THE PRODUCT REPORT. REQUIRED ANCHOR HOLE DEPTH FOR INSTALLATION MAY BE DEEPER.
7. EXISTING REINFORCING SHALL BE AVOIDED WHERE DRILLING FOR POST-INSTALLED ANCHORS OR CONCRETE DOWELS.
8. MAINTAIN A MINIMUM OF 2 INCHES FROM EXISTING CONDUIT AND POST-TENSIONING (WHERE OCCURS) PRIOR TO DRILLING, CORING, OR SHOOTING PINS INTO EXISTING CONCRETE OR MASONRY. USE NONDESTRUCTIVE TESTING TO LOCATE SUCH ITEMS.
9. WHERE THE FULL ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE ACHIEVED, NOTIFY THE SEOR AND IOR.
10. FILL ABANDONED HOLES WITH NON-SHRINK GROUT OR EPOXY. CLEAR DISTANCE BETWEEN NEW HOLES AND ABANDONED HOLES SHALL BE 2" OR TWO ANCHOR DIAMETERS, WHICHEVER IS GREATER, UNLESS OTHERWISE SPECIFIED BY SEOR. ANCHORS PENETRATING THROUGH WATERPROOFING OR VAPOR MEMBRANES SHALL BE SEALED OR FLASHED.
11. INSTALL IN DRY CONCRETE OR MASONRY HAVING A MINIMUM AGE OF 21 DAYS.
12. RE-USE OF SCREW ANCHORS AND SCREW ANCHOR HOLES IS NOT PERMITTED.
13. AN ACI-CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER IS REQUIRED FOR THE INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL AND OVERHEAD CONDITIONS.

NAILING SCHEDULE

061000-0001

(UNLESS OTHERWISE NOTED ON PLANS)

COMMON NAILS SHALL BE USED FOR NAILING AT TYPICAL CONNECTIONS NOTED BELOW (UNO).

CONNECTION, NAIL TYPE	NAILING
JOISTS TO SILL OR GIRDER, TOENAIL	(3) 8d
JOISTS TO RIM JOIST, FACE NAIL	(3) 16d
BRIDGING TO JOIST, TOENAIL EACH END	(2) 8d
BLOCKING BETWEEN JOISTS/RAFTERS TO TOP PLATE, TOENAIL	(3) 8d
1" x 6" OR NARROWER SUBFLOOR TO EACH JOIST, FACE NAIL	(2) 8d
WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST, BLIND AND FACE NAIL	(3) 8d
2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	(2) 16d
SILL PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 16"OC
TOP PLATE TO STUD, END NAIL	(2) 16d, TYP, UNO (4) 16d @ 2x10 STUDS
STUD TO SILL PLATE	(4) 8d TOENAIL OR (2) 16d END NAIL, TYP. UNO (7) 8d TOENAIL OR (4) 16d END NAIL @ 2x10 STUDS...
DOUBLE STUDS, FACE NAIL	16d @ 24"OC
DOUBLE TOP PLATES, FACE NAIL	16d @ 16"OC
TOP PLATES, LAPS, FACE NAIL	(8) 16d, UNO (18) 16d @ SHEARWALL LOCATIONS, UNO
TOP PLATES AT INTERSECTIONS, FACE NAIL	(2) 16d
CONTINUOUS HEADER, TWO PIECES	16d @ 16"OC ALONG EA EDGE
CEILING JOISTS TO PLATE, TOENAIL	(3) 8d
CONTINUOUS HEADER TO STUD, TOENAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
RAFTER TO PLATE, TOENAIL	(3) 8d
RIM JOIST TO TOP PLATE, TOENAIL	8d @ 6"OC
JACK RAFTER TO HIP, FACE NAIL	(2) 16d
1" BRACE TO EACH STUD & PLATE, FACE NAIL	(2) 8d
ROOF RAFTER TO 2x RIDGE BEAM, FACE NAIL	(2) 16d
1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	(3) 8d
WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	(3) 8d
2" PLANKS	16d @ EA BEARING
BUILT-UP CORNER STUDS	16d @ 24"OC
BUILT-UP GIRDERS AND BEAMS	20d @ 32"OC @ TOP & BOTT & STGRD (2) 20d @ ENDS & @ EA SPLICE (2) 16 @ EA BEARING

NAIL SCHEDULE (COMMON NAILS)		
SIZE	DIAMETER (IN)	LENGTH (IN)
8d	0.131	2 1/2
10d	0.148	3
12d	0.148	3 1/4
16d	0.162	3 1/2
20d	0.192	4

ROUGH CARPENTRY / WOOD

061000-0000

1. ALL GRADES SPECIFIED ARE MINIMUM GRADES REQUIRED. DOUGLAS FIR-LARCH SHALL BE GRADED BY A GRADING AGENCY CERTIFIED BY THE ALSC TO THE WCLIB OR WWPA GRADING RULES, CONFORMING TO DOC PS 20. REDWOOD SHALL BE GRADED BY THE CALIFORNIA REDWOOD ASSOCIATION, REDWOOD INSPECTION SERVICE.
2. WOOD SPECIES SPECIFICATIONS ("DF" INDICATES DOUGLAS FIR-LARCH CONFORMING TO DOC PS20):

NON-LOAD-BEARING STUDS, TOP PLATES, BLOCKING, FURRING AND BRACING	DF #2
JOISTS, RAFTERS, PURLINS, BEAMS & POSTS	DF #1 (UNO)
LOAD-BEARING STUDS (UNO)	
HEIGHT NOT EXCEEDING 15'-0"	DF #2
HEIGHT EXCEEDING 15'-0"	DF #1

3. MOISTURE CONTENT OF SAWN LUMBER SHALL NOT EXCEED 19% WHEN FRAMING STARTS OR SHEATHING IS APPLIED. ANY NONCOMPLIANT WORK SHALL BE REJECTED AND REFRAMED WITH ACCEPTABLE LUMBER.
4. ARCHITECTURALLY EXPOSED TIMBERS 4" NOMINAL IN THE LEAST DIMENSION SHALL NOT CONTAIN BOXED HEART.
5. PROVIDE FIRE-RETARDANT-TREATED (FRT) LUMBER AND WOOD STRUCTURAL PANELS PER CBC SECTION 2303.2 WHERE INDICATED BY ARCHITECT.
6. WOOD MEMBERS SHALL BE PRESERVATIVE-TREATED (PT) OR NATURALLY DURABLE (WITH APPROVAL OF SEOR) WHERE EXPOSED TO WEATHER AND IN ACCORDANCE WITH CBC SECTION 2304.12. SILL PLATES SHALL BE PRESERVATIVE-TREATED DOUGLAS FIR #2. END CUTS AND HOLES IN PT SILL PLATES SHALL BE TREATED.
7. FASTENERS, INCLUDING NUTS AND WASHERS, FOR PRESERVATIVE-TREATED WOOD, WOOD EXPOSED TO WEATHER, AND FIRE- RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153. EXCEPTIONS: FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B695, CLASS 55 MINIMUM, AND PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC-BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED.
8. UNLESS NOTED OTHERWISE, SILL FASTENERS FOR INTERIOR NON-STRUCTURAL WALLS MAY BE 0.157" DIAMETER x 1 1/4" EMBED PDF's AT 16"OC.
9. SILL PLATES SHALL BE BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS AT 48" OC MAX, UNO, WITH A BOLT BETWEEN 7 x BOLT DIAMETER (4 3/8" MIN) AND 12" FROM THE END OF EACH PIECE OF SILL (2 BOLTS MIN EACH PIECE). PIECE OF SILL SHALL BE CONSIDERED ENDED WHERE PLATE IS CUT OVER ONE-THIRD OF CROSS-SECTION.
10. ANCHOR BOLTS FOR BEARING WALLS SHALL HAVE 7" EMBEDMENT (UNO) MEASURED FROM TOP OF SLAB.
11. ALL BOLTS IN WOOD SHALL BE ASTM A307 STANDARD BOLTS, UNO. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT THE COMPLETION OF THE JOB. HOLES IN WOOD AND STEEL MEMBERS FOR BOLTS SHALL BE THE NOMINAL BOLT DIAMETER PLUS 1/16".
12. ALL NAIL SPACING, EDGE DISTANCES, AND END DISTANCES SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD. HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED OF A DIAMETER SMALLER THAN THAT OF THE NAILS.
13. HOLES IN WOOD FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK. HOLES FOR THE THREADED PORTION SHALL BE BORED WITH A BIT DIAMETER EQUAL TO 40% TO 70% OF THE SHANK DIAMETER IN DOUGLAS FIR. FOR OTHER WOOD SPECIES, REFER TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS).
14. LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
15. STANDARD CUT STEEL WASHERS SHALL BE PROVIDED UNDER HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS WHICH BEAR ON WOOD. SEE SHEAR WALL SCHEDULE FOR WASHER REQUIREMENTS AT SHEAR WALL SILL BOLTS WHERE OCCUR.
16. STUD BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES LAPPED AT INTERSECTIONS. JOINTS IN UPPER AND LOWER MEMBERS OF DOUBLE TOP PLATES SHALL BE STAGGERED AT LEAST 4'-0".
17. NOTCHING AND HOLES SHALL NOT BE ALLOWED EXCEPT AS DETAILED ON THESE PLANS OR AS APPROVED BY THE SEOR.
18. INSTALL WINDOWS AND DOORS IN STUD WALLS AFTER DEAD LOADS ARE APPLIED, AND PROVIDE A 1/2" SHIM SPACE AT THE HEAD CONDITION.
19. STRUCTURAL FLOOR, ROOF AND WALL SHEATHING SHALL BE APA-RATED AND SHALL CONFORM TO DOC PS1 OR PS2.
20. EXTERIOR STUD WALLS SHALL BE COMPLETELY SHEATHED WITH 15/32" SHEATHING, EXPOSURE-1 (32/16), TYPICAL, UNO.
21. ALL STRUCTURAL WALL SHEATHING SHALL BE SPLICED ON 2" NOMINAL BLOCKING AT HORIZONTAL JOINTS, UNO.

STRUCTURAL CONCRETE

033100-0000

1. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318 AND ACI 301 AND PROJECT SPECIFICATIONS.
2. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS), SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE DOES NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.
3. CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX. LOCATIONS OF CONSTRUCTION JOINTS NOT SHOWN ON THESE PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE SEOR PRIOR TO PLACING ANY CONCRETE.
4. STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING DESIGN CRITERIA:

LOCATION	MIN 28-DAY COMP STRENGTH	CONC TYPE	MAX AGGREGATE SIZE	MAX W/C RATIO
FOUNDATION	3000 PSI	NWC	1 1/2"	0.55
INTERIOR SLAB ON GRADE	4000 PSI	NWC	1"	0.45
ALL OTHER STRUCTURAL CONCRETE NOT NOTED ABOVE	3000 PSI	NWC	1"	0.50

   a. MAXIMUM AIR DRY UNIT WEIGHT OF LIGHTWEIGHT CONCRETE SHALL NOT EXCEED 115 PCF, UNLESS APPROVED BY SEOR.
   b. WHEN THE USE OF PLASTICIZER (ASTM C1017, TYPE I OR II) OR WATER REDUCER (ASTM C494, TYPE F OR G) IS USED, MAXIMUM SLUMP SHALL BE 4" PRIOR TO ADMIXTURE AND 8" INCLUDING ADMIXTURE AT THE POINT OF DELIVERY. IN THE ABSENCE OF PLASTICIZER AND WATER REDUCER, SLUMP AT THE POINT OF DELIVERY SHALL NOT EXCEED 4".
   c. W/C RATIO INDICATES WATER TO CEMENTITIOUS MATERIALS RATIO.
   d. SLABS ON GRADE, TOPPING SLABS, AND ELEVATED CONCRETE FLOORS SHALL HAVE A MAXIMUM SHRINKAGE RATE OF 0.04% AT 28 DAYS PER ASTM C157 (CURING TEST SPECIMENS TO BE CONSISTENT WITH FIELD CONDITIONS), OR USING EMBEDDED VIBRATING WIRE STRAIN GAUGES. RESULTS OF TESTING SHALL BE SUBMITTED TO ENGINEER.
   e. SEE ACI 318 FOR ADDITIONAL REQUIREMENTS REGARDING MAXIMUM AGGREGATE SIZE. AGGREGATE GRADATION OF 3/4" MAXIMUM (PEA GRAVEL) SHALL NOT BE USED WHERE FINISHED CONCRETE SURFACE IS EXPOSED TO VIEW.
5. CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE AND SPECIFICATIONS. ALL CONCRETE MIXES SHALL BE DESIGNED PER ACI 318 BY A RECOGNIZED TESTING LAB STAMPED AND SIGNED BY A LICENSED ENGINEER AND SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
6. AGGREGATES IN NORMALWEIGHT CONCRETE SHALL CONFORM TO ASTM C33 (HARDROCK). AGGREGATES IN LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C330.
7. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE SEOR.
8. PORTLAND CEMENT SHALL BE TYPE II AND SHALL CONFORM TO ASTM C150, LOW ALKALI. MILL TESTS WITH CERTIFICATES OF COMPLIANCE SHALL BE SUBMITTED.
9. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 25% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED BY FIELD EXPERIENCE OR TRIAL MIXTURES.
10. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C94.
11. LEAN CONCRETE, WHERE SPECIFICALLY INDICATED, SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
12. DRYPACK OR NONSHRINK GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI, AND CONSIST OF MASTERFLOW 713, EUCON NS GROUT, SIKA GROUT 212, OR APPROVED EQUAL. FOR THICK GROUT LAYERS FOLLOW MANUFACTURER'S GUIDELINES TO ATTAIN THE REQUIRED STRENGTH, WHICH MAY INCLUDE THE ADDITION OF PEA GRAVEL. FOR BASE PLATES LARGER THAN 6 SQUARE FEET, USE HI-FLOW GROUT OR MASTERFLOW 928.
13. DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES.
14. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.
15. PRIOR TO ERECTING ANY ELEMENTS THAT LOAD THE FOUNDATION, CONCRETE MUST REACH AN UNCONFINED COMPRESSIVE STRENGTH OF 2000 PSI MINIMUM AS DETERMINED BY TESTING OR PREVIOUSLY DOCUMENTED DATA FOR THE MIX DESIGN USED UNDER SIMILAR CONDITIONS, AND MUST CURE FOR A MINIMUM OF 3 DAYS.
16. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY SEOR.
17. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, WALL OFFSETS, CHAMFERS, KERFS, DRIPS AND FOR EXTENT OF DEPRESSIONS, RAMPS, ETC.
18. PROVIDE SLEEVES FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS SHOWN ON THESE DRAWINGS. CORING IS NOT PERMITTED WITHOUT PRIOR APPROVAL BY THE SEOR.
19. EXPOSED CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER OR 1/2" RADIUS TOOLED EDGE, UNO.

FOUNDATIONS AND SLABS ON GRADE

032100-0001

1. GEOTECHNICAL REPORT INFORMATION AND DESIGN CRITERIA:

GEOTECHNICAL REPORT	
AUTHOR	TERRACON
REPORT NUMBER	NA245115
DATE	DEC. 2, 2024
GEOTECHNICAL DESIGN CRITERIA	
ALLOWABLE SOIL PRESSURE, DEAD LOAD + LIVE LOAD	2500 PSF
ALLOWABLE SOIL PRESSURE, DEAD LOAD + LIVE LOAD + LATERAL LOAD	3333 PSF

2. THE CONTRACTOR SHALL CONFORM TO ALL RECOMMENDATIONS AND CONDITIONS INDICATED IN THE GEOTECHNICAL REPORT. THE GEOTECHNICAL ENGINEER SHALL OBSERVE ALL FOOTING EXCAVATIONS PRIOR TO PLACING CONCRETE.
3. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS.
4. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED BUT NOT BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY ATTAINS ITS FULL DESIGN STRENGTH.
5. CONSTRUCTION JOINTS (CJ) AND SAWCUT (SC) JOINTS IN SLABS SHALL OCCUR WHERE SPECIFIED IN CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL SUBMIT SLAB JOINT LAYOUT TO SEOR FOR REVIEW PRIOR TO PLACING CONCRETE. CJ'S SHALL HAVE FORMED POUR STOPS. CONSTRUCTION JOINTS IN WALLS AND FOOTINGS NEED NOT OCCUR AT THE SAME LOCATION, UNO.
6. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS. NON-STRUCTURAL PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN IN THE STRUCTURAL DRAWINGS.
7. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.

REINFORCING STEEL

032000-0000

1. REINFORCING GRADES FOR CONCRETE AND MASONRY:

ALL BARS UNLESS NOTED OTHERWISE	ASTM A615 OR A706, GRADE 60
TIES AND STIRRUPS	ASTM A615 OR A706, GRADE 60

2. ALL BARS SHALL BE DEFORMED.
3. MAINTAIN CONCRETE COVER FROM FACE OF CONCRETE TO EDGE OF ALL REINFORCEMENT AS FOLLOWS (UNO). THE INTENT IS FOR REINFORCEMENT TO BE PLACED SO THAT IT IS AS CLOSE TO CONCRETE SURFACES AS POSSIBLE, WITHIN SPECIFIED TOLERANCES, WHILE MAINTAINING THIS MINIMUM PROTECTION. PROVIDE THE LARGEST COVER REQUIRED FOR ALL APPLICABLE CONDITIONS. WHERE #3 STIRRUPS OR TIES ARE USED, ENSURE THAT THE COVER FOR LONGITUDINAL BARS IS ADEQUATE.

CONDITION	COVER
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
FORMED AND EXPOSED TO EARTH OR WEATHER	
#6 BARS AND LARGER	2"
#5 BARS AND SMALLER	1 1/2"
UNEXPOSED RAISED SLABS AND WALL FACES (#11 BARS AND SMALLER)	3/4"
UNEXPOSED COLUMNS AND BEAMS	1 1/2"
STRUCTURAL SLABS ON GRADE	
FROM BOTTOM OF SLAB	2"
FROM TOP OF SLAB	1 1/2"
OTHER CONCRETE NOT EXPOSED TO EARTH OR WEATHER (#11 BARS AND SMALLER)	3/4"

4. "CLEAR" OR "CLR" INDICATES DISTANCE BETWEEN SURFACES AND DOES NOT INDICATE MINIMUM UNLESS SPECIFICALLY NOTED AS SUCH. CLEAR DISTANCES ARE SUBJECT TO TOLERANCES PER CRSI.
5. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE". EACH REINFORCING BAR SHALL BE WIRED TO A CROSS BAR AT A MAXIMUM SPACING OF 24"OC. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITIONS SHOWN ON THE PLANS. DO NOT USE WOOD OR BRICK TO SUPPORT REINFORCING.
6. SPLICES IN CONTINUOUS REINFORCEMENT IN WALLS, FOOTINGS, ETC. SHALL HAVE A CLASS "B" LAP (1'-6" MIN) AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. BARS MAY BE WIRED TOGETHER AT SPLICES OR LAPS EXCEPT FOR TOP REINFORCING OF BEAMS AND SLABS OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.
7. ALL DOWELS, ANCHOR BOLTS AND OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. NO WET SETTING, STABBING, RODDING OR OTHER MOVEMENT OF EMBEDDED ITEMS SHALL BE PERFORMED DURING PLACEMENT OF CONCRETE.
8. BEND REINFORCING BARS COLD. BARS MAY ONLY BE BENT ONCE.
9. REINFORCEMENT SHALL BE FREE FROM MUD, OIL, DIRT, LOOSE RUST, MORTAR, PAINT, GREASE AND OTHER NON-METALLIC AGENTS THAT REDUCE BOND CAPACITY. BONDED RUST OR MILL SCALE IS ACCEPTABLE PROVIDED THE MINIMUM CROSS-SECTIONAL AREA (INCULDING HEIGHT OF DEFORMATIONS) AND WEIGHT ARE MAINTAINED.
10. DOWELS BETWEEN FOOTING AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE MAIN REINFORCING UNO.
11. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE DURING INSPECTION.
12. CHAIRS OR SPACERS FOR REINFORCING SHALL BE PLASTIC WHEN RESTING ON EXPOSED SURFACES.
13. WHERE LONGITUDINAL REINFORCING BARS ARE PLACED IN 2 OR MORE LAYERS, BARS IN THE UPPER LAYERS SHALL BE PLACED DIRECTLY ABOVE BARS IN THE BOTTOM LAYER.
14. ALL BENDS WITHIN STIRRUPS, HOOPS, AND CROSS-TIES SHALL ENGAGE A LONGITUDINAL BAR, PROVIDE #4 SPACER BAR WHERE A LONGITUDINAL BAR IS NOT SPECIFICALLY DETAILED.
15. MECHANICAL BAR SPLICES (COUPLERS) MAY BE USED AT CONTRACTOR'S OPTION IN LIEU OF LAP SPLICES AND WHERE REBAR IS SHOWN CONTINUOUS THROUGH JOINTS. UNLESS NOTED OTHERWISE, ALL MECHANICAL BAR SPLICES SHALL BE "TYPE 2" AS DEFINED IN ACI 318 AND AS LISTED IN THE PRODUCT SCHEDULE, AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
16. MECHANICAL HEADED END ANCHORS MAY BE USED AT CONTRACTOR'S OPTION IN LIEU OF STANDARD 90 DEGREE HOOKS AS LISTED IN THE PRODUCT SCHEDULE, AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE HEADED END ANCHORS WHERE CONGESTION DOES NOT ALLOW HOOKED REBAR INSTALLATION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

STRUCTURAL ENGINEER
miyamoto.
1400 Halyard Drive, Suite One
West Sacramento, CA 95691
M2301020_R21
T: (916) 373-1995
miyamotointernational.com

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
100% CONSTRUCTION DOCUMENTS
DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
JOHN M. DETERMAN
No. S4654
STRUCTURAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 09/03/2025
DRAWN BY: CR CHKED BY: JE

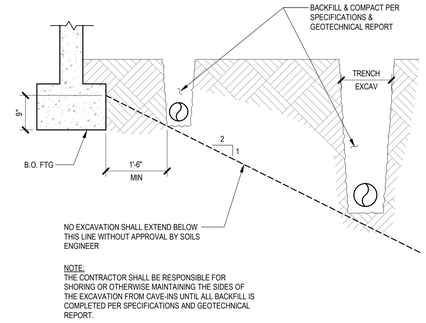
REVISIONS		
#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

GENERAL MATERIAL NOTES

S0.02

This document is for plan review only



1 EXCAVATION PARALLEL TO FOOTINGS

NTS 033100_00-0102 (DSA)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

STRUCTURAL ENGINEER
miyamoto.
1450 Halyard Drive, Suite One
West Sacramento, CA 95691
T: (916) 373-1995
miyamotointernational.com
MI2301020_R21

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

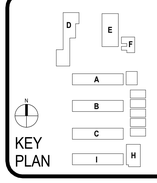
5224 EAST MORADA LANE
STOCKTON, CA 95212

100% CONSTRUCTION DOCUMENTS

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
230217

DATE 09/03/2025

DRAWN BY: CR CHKED BY: JE

REVISIONS

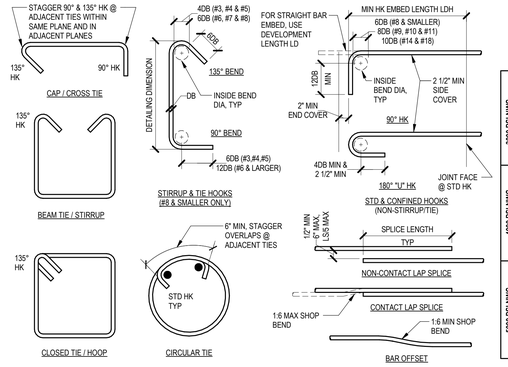
#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

TYPICAL FOUNDATION & SOG DETAILS

S0.11

This document is for plan review only



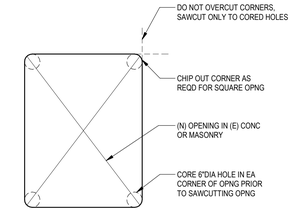
BAR SIZE	STD HOOK DEVELOPMENT LENGTH 'LDH' (IN)	CLASS B LAP SPLICE 'LS' (IN)		DEVELOPMENT LENGTH 'LD' (IN)	
		BOTT	TOP	BOTT	TOP
3000 PSI NWC	#3	6	22	28	17	22
	#4	8	29	37	22	29
	#5	10	36	47	28	36
	#6	12	43	56	33	43
	#7	14	63	81	48	63
	#8	16	72	93	55	72
	#9	18	81	105	62	81
	#10	20	91	118	70	91
	#11	22	101	131	78	101
4000 PSI NWC	#3	6	19	24	15	19
	#4	7	25	32	19	25
	#5	9	31	40	24	31
	#6	10	37	48	29	37
	#7	12	54	70	42	54
	#8	14	62	80	48	62
	#9	15	70	91	54	70
	#10	17	79	102	61	79
	#11	19	87	113	67	87
5000 PSI NWC	#3	6	17	22	13	17
	#4	6	22	29	17	22
	#5	8	28	36	22	28
	#6	9	33	43	26	33
	#7	11	49	63	37	49
	#8	12	55	72	43	55
	#9	14	63	81	48	63
	#10	15	70	91	54	70
	#11	17	78	101	60	78

HOOKS, LAPS & DEVELOPMENT LENGTHS

NOTES:
1. SEE BUILDING CODE AND ACI FOR ALL REQUIREMENTS NOT NOTED.
2. FOR LIGHTWEIGHT CONCRETE, MULTIPLY LDH, LS AND LD VALUES BY 1.33.
3. "TOP" BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "BOTT" BARS.
4. WHERE REQUIRED LS CANNOT BE OBTAINED WITH STRAIGHT BARS, EXTEND REINFORCING AS FAR AS POSSIBLE (LDH MINIMUM) AND PROVIDE STANDARD HOOK. WHERE LDH CANNOT BE OBTAINED, CONTACT THE SEOR.
5. VALUES ARE FOR GRADE 60 (FY=60 KSI) REINFORCEMENT.
6. SPLICE LENGTHS ARE FOR CLEAR SPACING NOT LESS THAN 2DB AND CONCRETE COVER NOT LESS THAN DB.
7. FOR EPOXY-COATED AND/OR BUNDLED REINFORCEMENT, CONTACT THE SEOR.
8. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, SPLICE LENGTH SHALL BE THE LARGER OF LD OF THE LARGER BAR AND LS OF THE SMALLER BAR.
9. WHERE CLASS "A" LAP SPLICES ARE SPECIFICALLY INDICATED, USE 'LD'.

5 CONCRETE REINFORCEMENT DETAILS & DEVELOPMENT LENGTHS

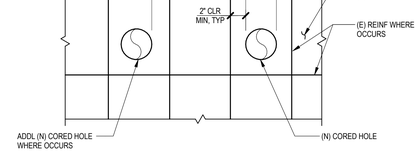
NTS 032000-0100



NOTES:
1. ALL OPENING LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE SEOR PRIOR TO CORING.
2. PROVIDE NONDESTRUCTIVE TESTING TO DETERMINE THE LOCATION OF (E) REINFORCING BARS PRIOR TO THE CUTTING OF (N) HOLES. LOCATE THE (N) OPENING IN SUCH A MATTER TO AVOID CONTACT WITH (E) REINFORCING.
3. WHERE EXISTING CURB REINFORCING BARS ARE CUT AT NEW DOOR LOCATIONS, COAT THE EXPOSED STEEL WITH SIKA ARMATEC-110 EPOCEM.

2 SAWCUT OPENING

NTS 030000-0100



NOTES:
1. ALL CORED HOLE LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE SEOR PRIOR TO CORING. MAXIMUM ONE CORE PER TWO ADJACENT VERTICAL BARS AND MAXIMUM TWO CORES IN THE STEM WALL, AS SHOWN.
2. PROVIDE NONDESTRUCTIVE TESTING TO DETERMINE THE LOCATION OF (E) REINFORCING BARS PRIOR TO THE CORING OF (N) HOLES. LOCATE THE (N) CORED HOLES IN SUCH A MANNER TO AVOID CONTACT WITH (E) REINFORCING.

3 NEW CORED HOLES IN EXISTING CONC

NTS 030000-0101

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

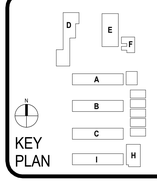
STRUCTURAL ENGINEER
miyamoto.
1450 Halyard Drive, Suite One
West Sacramento, CA 95691
M23010020_R21
T: (916) 373-1995
miyamotointernational.com

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

100% CONSTRUCTION DOCUMENTS
DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 09/03/2025
DRAWN BY: CR CHKED BY: JE

REVISIONS

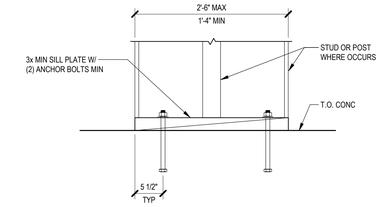
#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

TYPICAL CONCRETE DETAILS

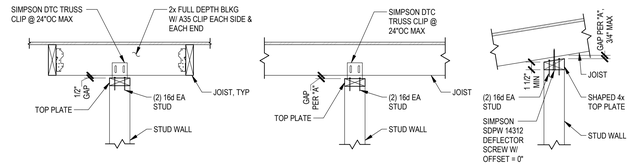
S0.13

This document is for plan review only



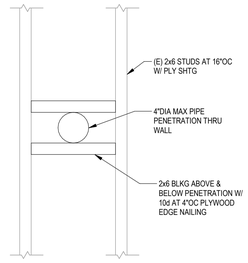
9 SHORT WALL SILL PLATE

NTS 061000.01-1002



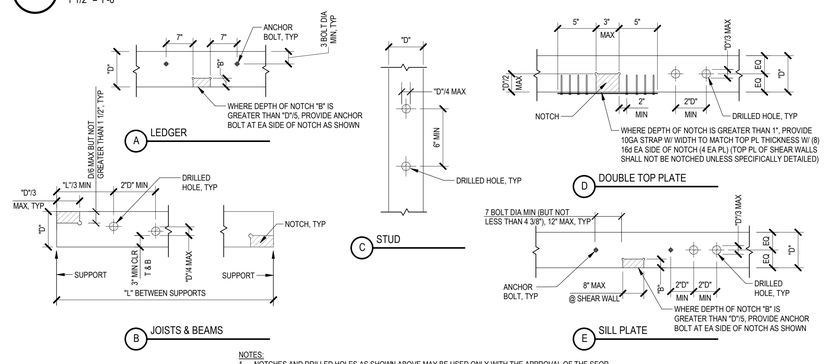
5 TOP OF NON-BEARING INT PARTITIONS

NTS 061000_01-0103



6 PIPE PENETRATION AT WALL

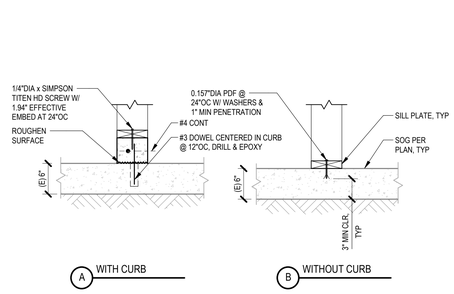
1 1/2" = 1'-0"



NOTES:
1. NOTCHES AND DRILLED HOLES AS SHOWN ABOVE MAY BE USED ONLY WITH THE APPROVAL OF THE SEOR.
2. DRILL 1/4"DIA HOLE AT CORNERS OF NOTCHES PRIOR TO NOTCHING.

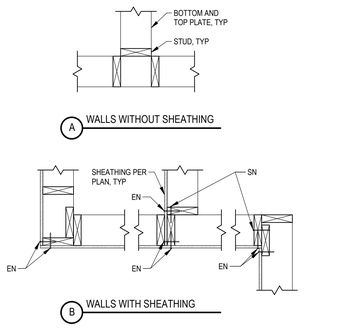
7 HOLES AND NOTCHES IN WOOD FRAMING

NTS 061000_00-0100



8 NON-BEARING INT PARTITION SILL PLATE ANCHORAGE

NTS 061000_01-0100



4 WALL INTERSECTIONS AND CORNERS

NTS 061000_01-0102

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

STRUCTURAL ENGINEER
miyamoto.
1450 Halyard Drive, Suite One
West Sacramento, CA 95691
T: (916) 373-1995
miyamotointernational.com
MI2301020_R21

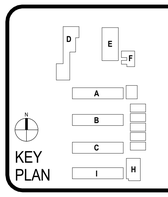
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

100% CONSTRUCTION DOCUMENTS
DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 09/03/2025
DRAWN BY: CR CHKED BY: JE
REVISIONS

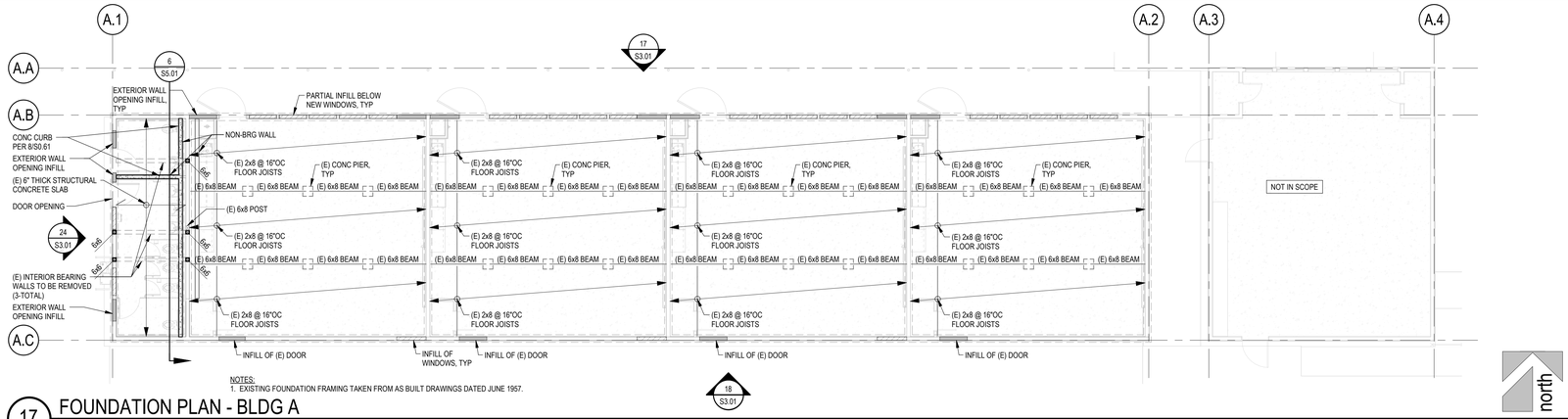
#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

TYPICAL WOOD DETAILS

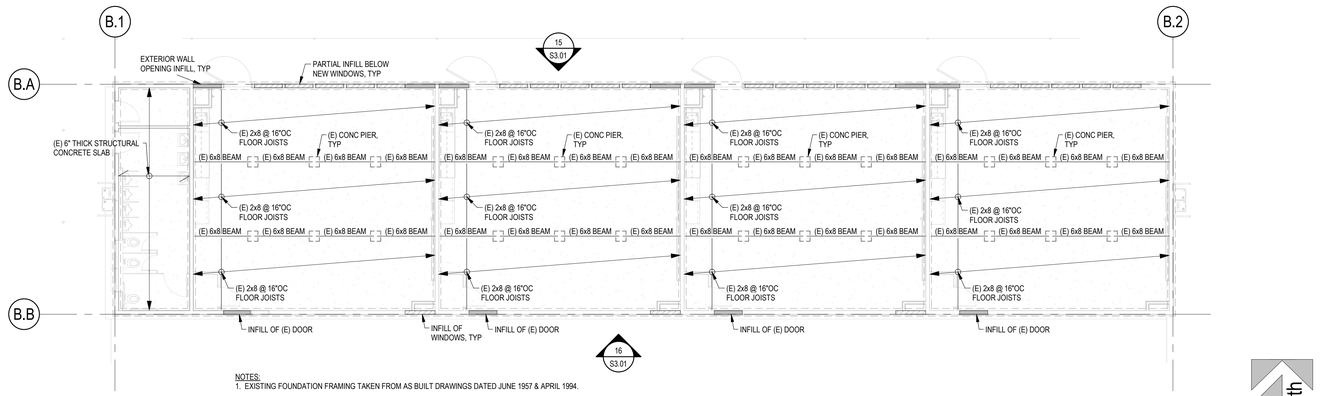
This document is for plan review only

S0.61



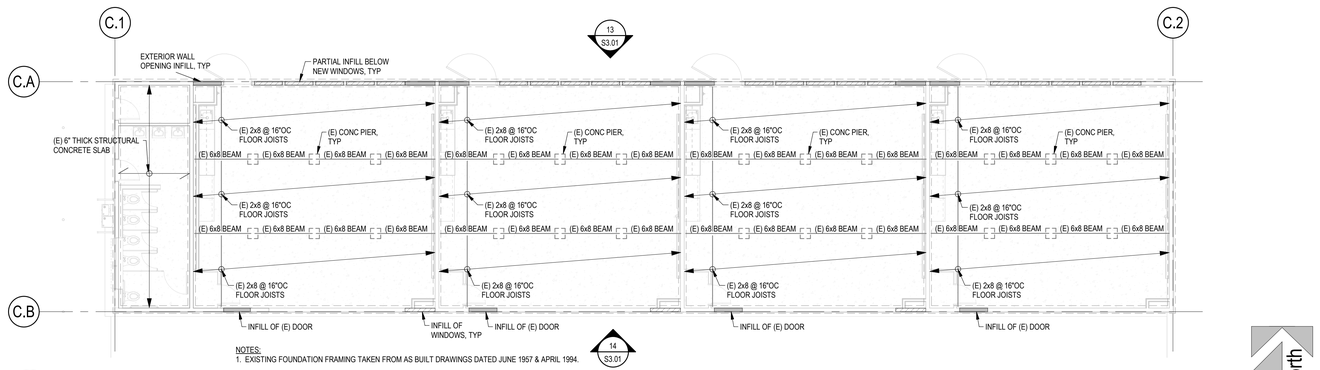
NOTES:
1. EXISTING FOUNDATION FRAMING TAKEN FROM AS BUILT DRAWINGS DATED JUNE 1957.

17 FOUNDATION PLAN - BLDG A
1/8" = 1'-0"



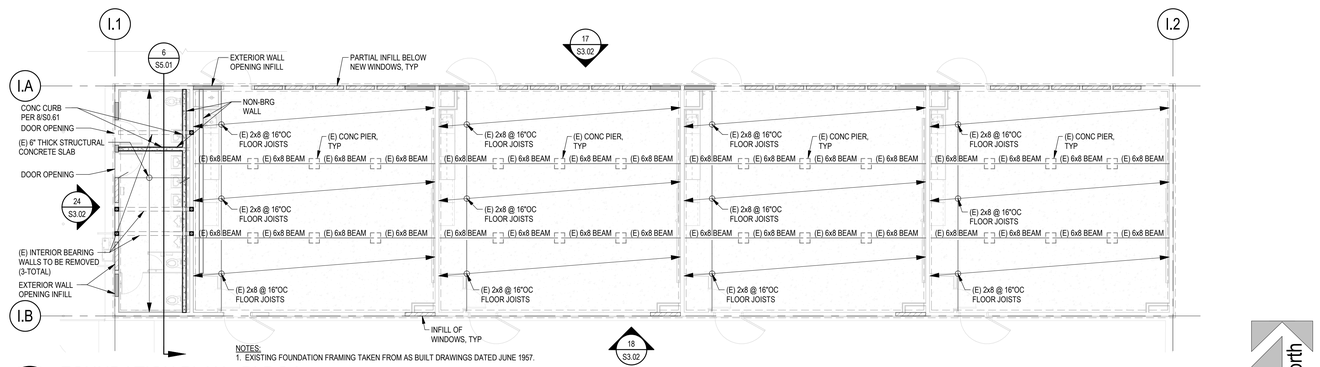
NOTES:
1. EXISTING FOUNDATION FRAMING TAKEN FROM AS BUILT DRAWINGS DATED JUNE 1957 & APRIL 1994.

18 FOUNDATION PLAN - BLDG B
1/8" = 1'-0"



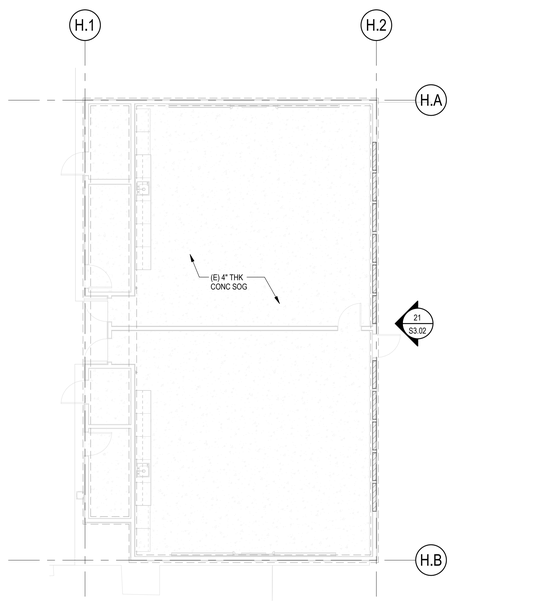
NOTES:
1. EXISTING FOUNDATION FRAMING TAKEN FROM AS BUILT DRAWINGS DATED JUNE 1957 & APRIL 1994.

3 FOUNDATION PLAN - BLDG C
1/8" = 1'-0"



NOTES:
1. EXISTING FOUNDATION FRAMING TAKEN FROM AS BUILT DRAWINGS DATED JUNE 1957.

4 FOUNDATION PLAN - BLDG I
1/8" = 1'-0"



8 FOUNDATION PLAN - BLDG H
1/8" = 1'-0"

NOTES:
1. SEE (E) BUILDING DRAWINGS FOR (E) TOP OF CONCRETE SLAB ELEVATIONS. SEE ARCHITECTURAL FOR FINISH FLOOR ELEVATIONS.
2. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY ALL UNIT LOCATIONS, SIZES AND OPENINGS.
3. GRIDLINES SHOWN ARE TO FACE OF CONCRETE / STUD AS SHOWN, TYP, UNO. COORDINATE WITH ARCHITECTURAL AS REQUIRED. SEE ARCHITECTURAL FOR DIMENSIONS NOT SHOWN.
4. ELEVATION OF FINISH FLOOR = SEE ARCHITECTURAL (DATUM ELEVATION = +0'-0").
5. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLAB.
6. COORDINATE INFORMATION SHOWN WITH ARCHITECTURAL PLANS. REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER AND ARCHITECT IMMEDIATELY.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

STRUCTURAL ENGINEER
miyamoto.
1450 Halyard Drive, Suite One
West Sacramento, CA 95691
MI2301020_R21
T: (916) 373-1995
miyamotointernational.com

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

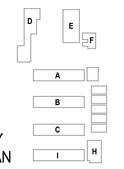
5224 EAST MORADA LANE
STOCKTON, CA 95212

100% CONSTRUCTION DOCUMENTS

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
JOHN R. DETERMAN
No. S4654
Electrical
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 09/03/2025
DRAWN BY: CR CHKED BY: JE
REVISIONS

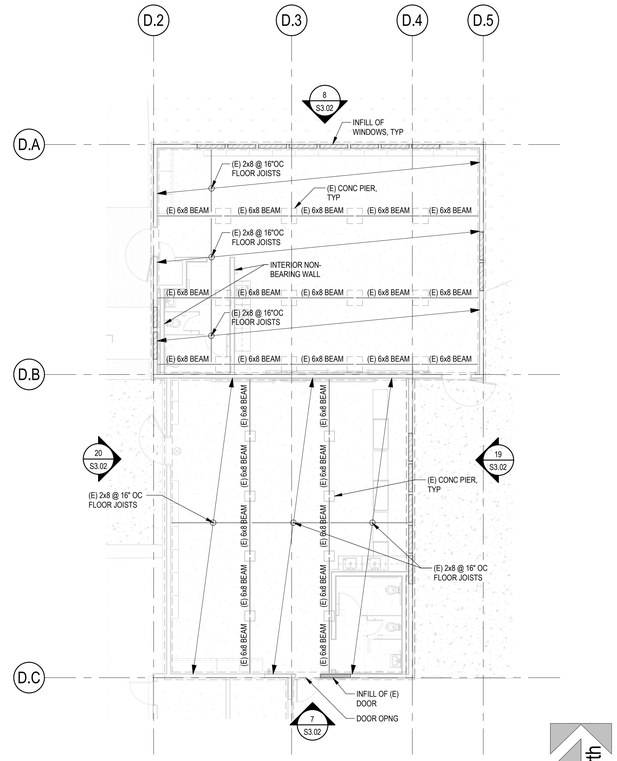
#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

FOUNDATION PLANS

This document is for plan review only

S1.01



1 PARTIAL FOUNDATION PLAN - BLDG D

1/8" = 1'-0"

NOTES:

1. SEE (E) BUILDING DRAWINGS FOR (E) TOP OF CONCRETE SLAB ELEVATIONS. SEE ARCHITECTURAL FOR FINISH FLOOR ELEVATIONS.
2. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY ALL UNIT LOCATIONS, SIZES AND OPENINGS.
3. GRIDLINES SHOWN ARE TO FACE OF CONCRETE / STUD AS SHOWN, TYP, UNO. COORDINATE WITH ARCHITECTURAL AS REQUIRED. SEE ARCHITECTURAL FOR DIMENSIONS NOT SHOWN.
4. ELEVATION OF FINISH FLOOR = SEE ARCHITECTURAL (DATUM ELEVATION = +0'-0").
5. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLAB.
6. COORDINATE INFORMATION SHOWN WITH ARCHITECTURAL PLANS. REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER AND ARCHITECT IMMEDIATELY.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

STRUCTURAL ENGINEER
miyamoto.
1450 Halyard Drive, Suite One
West Sacramento, CA 95691
T: (916) 373-1995
miyamotointernational.com
MI2301020_R21

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

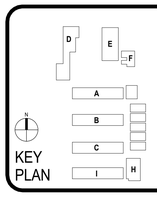
5224 EAST MORADA LANE
STOCKTON, CA 95212

100% CONSTRUCTION DOCUMENTS

DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
CORY R. DETERMAN
No. S4654
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
230217

DATE 09/03/2025

DRAWN BY: CR CHKED BY: JE

REVISIONS

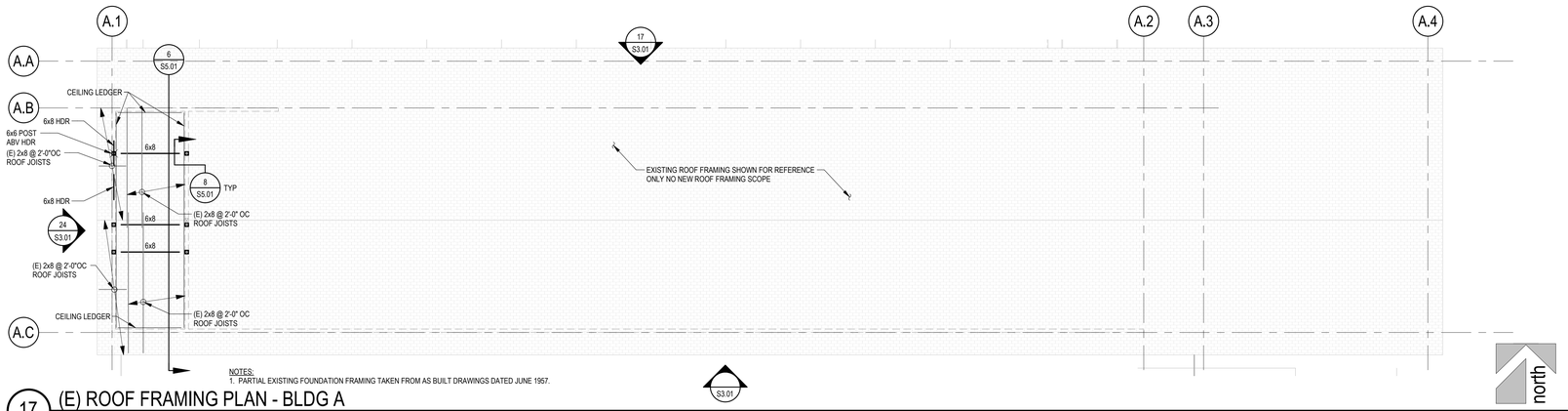
#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

FOUNDATION PLANS

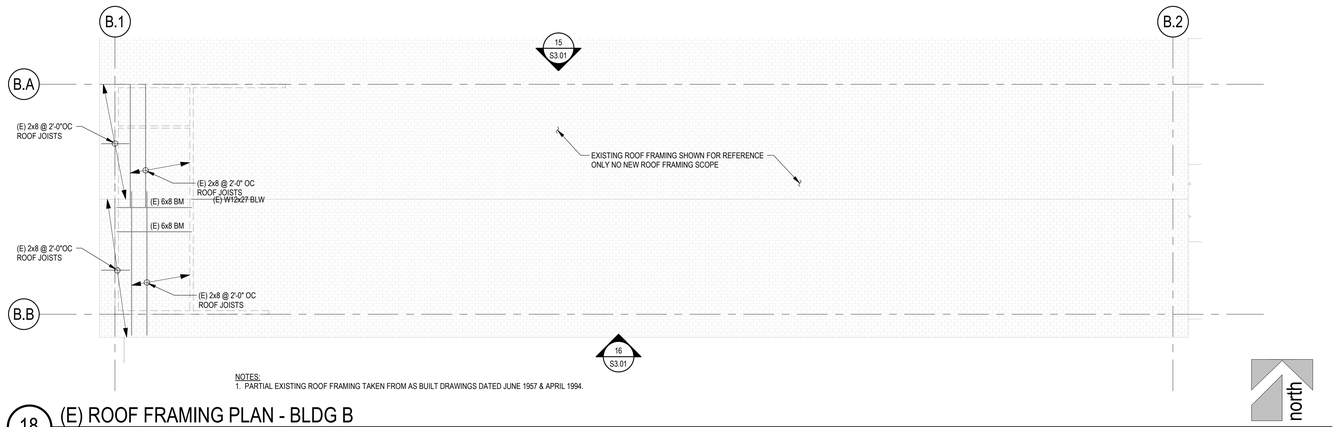
S1.02

This document is for plan review only



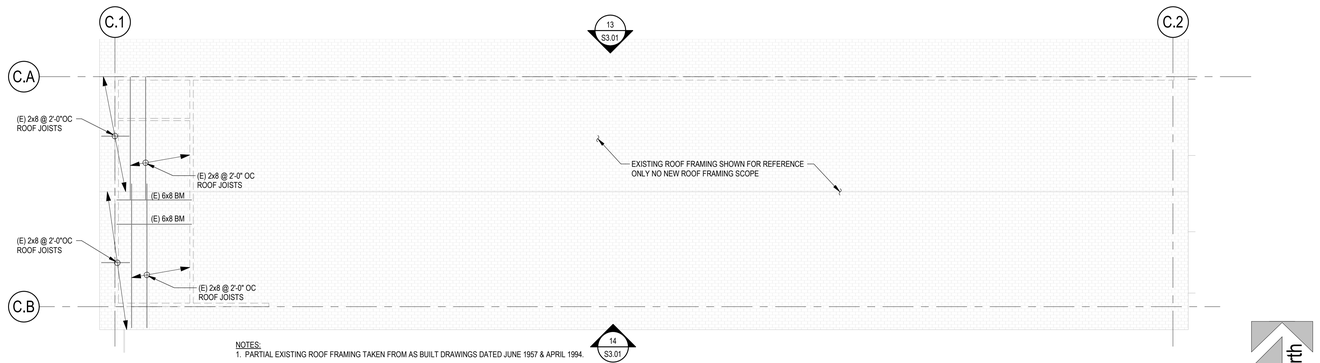
NOTES:
1. PARTIAL EXISTING FOUNDATION FRAMING TAKEN FROM AS BUILT DRAWINGS DATED JUNE 1957.

17 (E) ROOF FRAMING PLAN - BLDG A
1/8" = 1'-0"



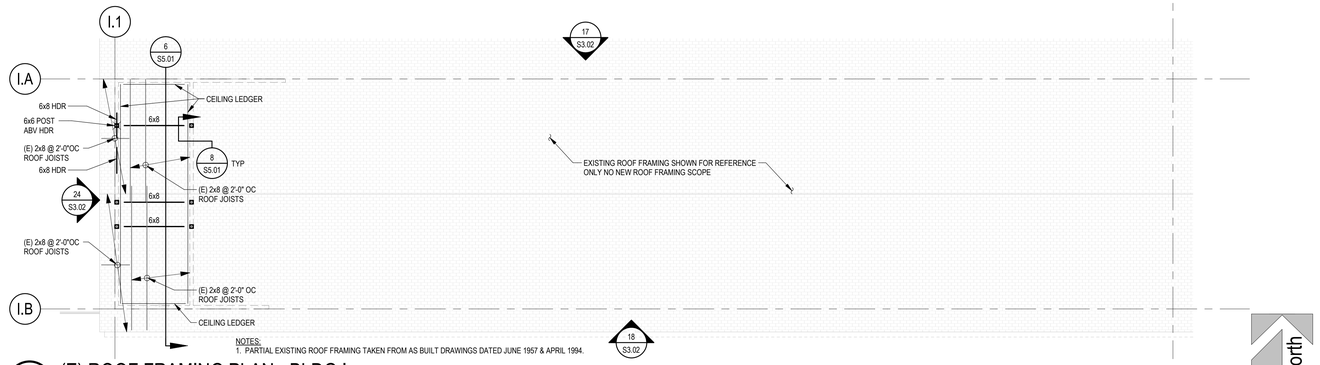
NOTES:
1. PARTIAL EXISTING ROOF FRAMING TAKEN FROM AS BUILT DRAWINGS DATED JUNE 1957 & APRIL 1994.

18 (E) ROOF FRAMING PLAN - BLDG B
1/8" = 1'-0"



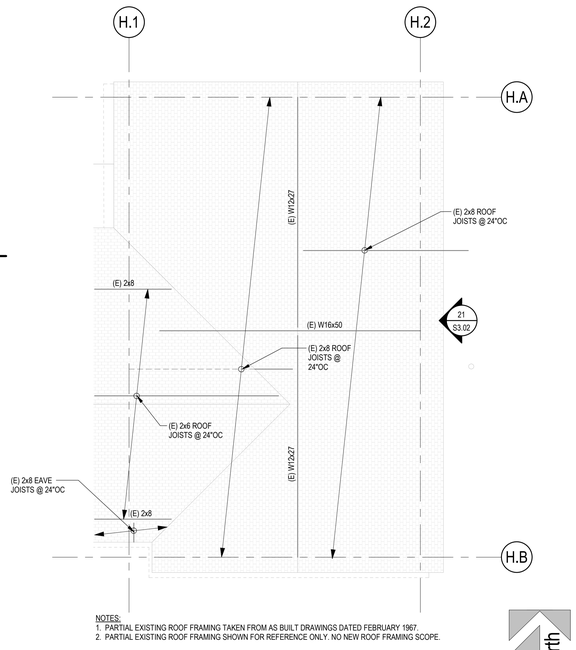
NOTES:
1. PARTIAL EXISTING ROOF FRAMING TAKEN FROM AS BUILT DRAWINGS DATED JUNE 1957 & APRIL 1994.

19 (E) ROOF FRAMING PLAN - BLDG C
1/8" = 1'-0"



NOTES:
1. PARTIAL EXISTING ROOF FRAMING TAKEN FROM AS BUILT DRAWINGS DATED JUNE 1957 & APRIL 1994.

2 (E) ROOF FRAMING PLAN - BLDG I
1/8" = 1'-0"



NOTES:
1. PARTIAL EXISTING ROOF FRAMING TAKEN FROM AS BUILT DRAWINGS DATED FEBRUARY 1967.
2. PARTIAL EXISTING ROOF FRAMING SHOWN FOR REFERENCE ONLY. NO NEW ROOF FRAMING SCOPE.

1 PARTIAL (E) ROOF FRAMING PLAN - BLDG H
1/8" = 1'-0"

NOTES:
1. SEE (E) BUILDING DRAWINGS FOR (E) TOP OF ROOF ELEVATIONS.
2. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY ALL UNIT LOCATIONS, SIZES AND OPENINGS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

STRUCTURAL ENGINEER
miyamoto.
1450 Halyard Drive, Suite One
West Sacramento, CA 95691
T: (916) 373-1995
miyamotointernational.com
MI2301020_R21

DAVIS ELEMENTARY SCHOOL MODERNIZATION

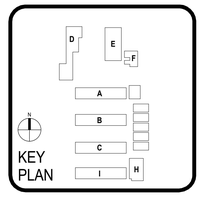
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

100% CONSTRUCTION DOCUMENTS

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT



REGISTERED PROFESSIONAL ENGINEER
JOHN D. DETERMAN
No. S4654
Electrical
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 09/03/2025
DRAWN BY: CR CHKED BY: JE
REVISIONS

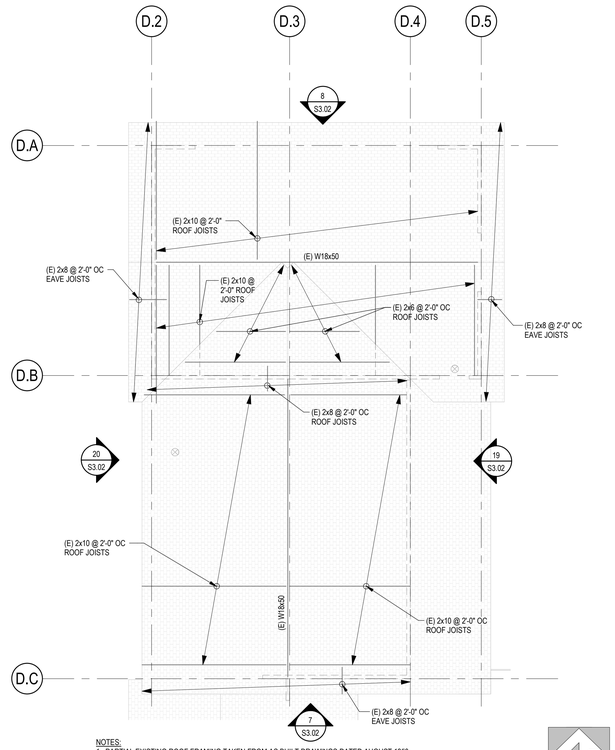
#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

ROOF FRAMING PLANS

S2.01

This document is for plan review only



NOTES:
1. PARTIAL EXISTING ROOF FRAMING TAKEN FROM AS BUILT DRAWINGS DATED AUGUST 1950.
2. PARTIAL EXISTING ROOF FRAMING SHOWN FOR REFERENCE ONLY. NO NEW ROOF FRAMING SCOPE.

1 PARTIAL (E) ROOF FRAMING PLAN - BLDG D
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

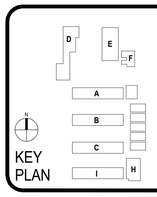
ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

STRUCTURAL ENGINEER
miyamoto.
1450 Halyard Drive, Suite One
West Sacramento, CA 95691
T: (916) 373-1995
miyamotointernational.com
MI2301020_R21

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
100% CONSTRUCTION DOCUMENTS
DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 09/03/2025
DRAWN BY: CR CHKED BY: JE

REVISIONS

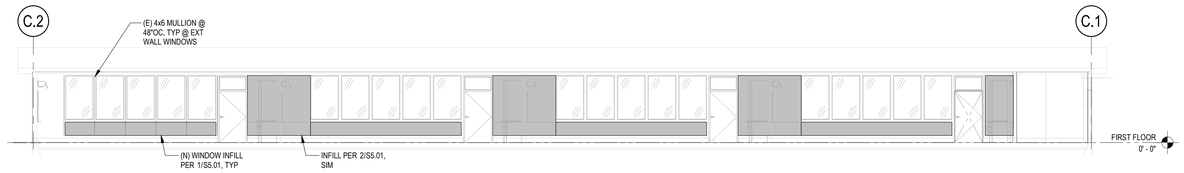
#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

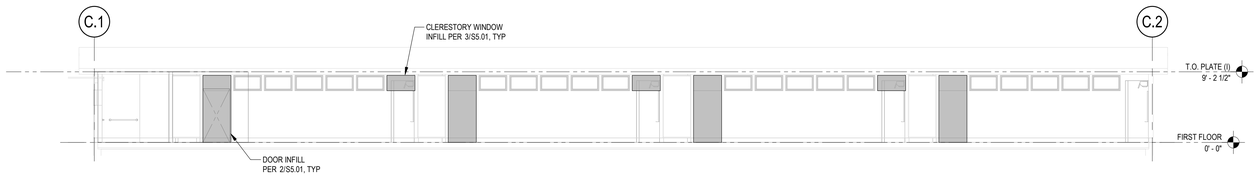
ROOF FRAMING PLAN

S2.02

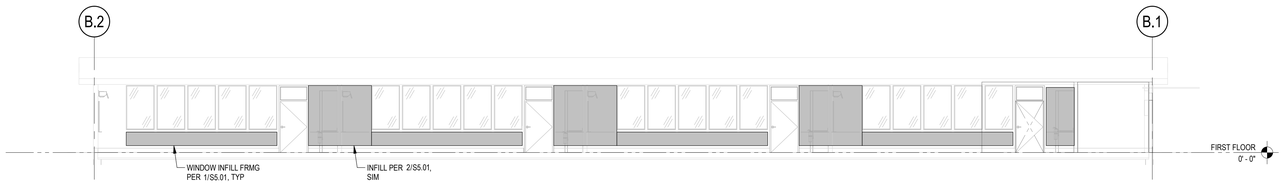
This document is for plan review only



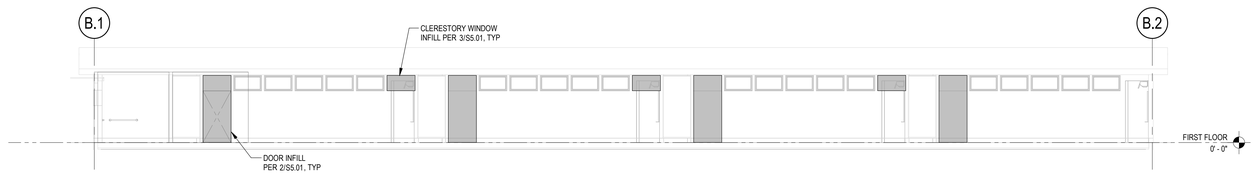
13 EXTERIOR ELEVATION - BLDG C (NORTH)
1/8" = 1'-0"



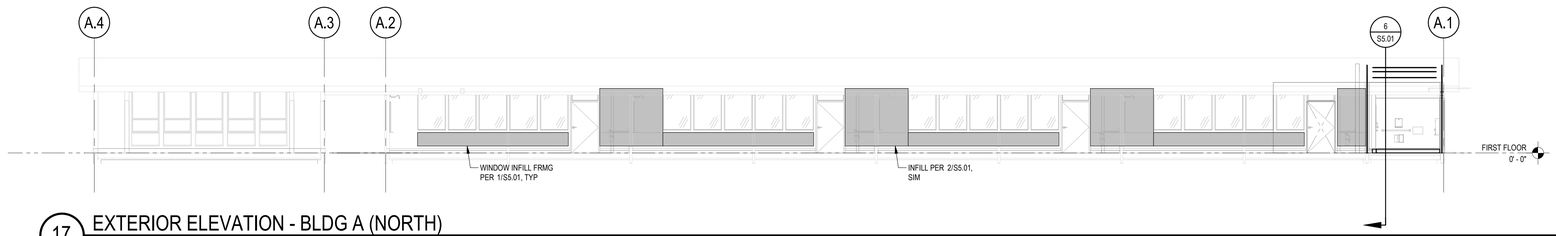
14 EXTERIOR ELEVATION - BLDG C (SOUTH)
1/8" = 1'-0"



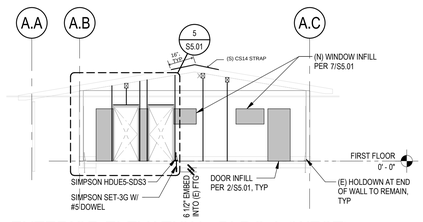
15 EXTERIOR ELEVATION - BLDG B (NORTH)
1/8" = 1'-0"



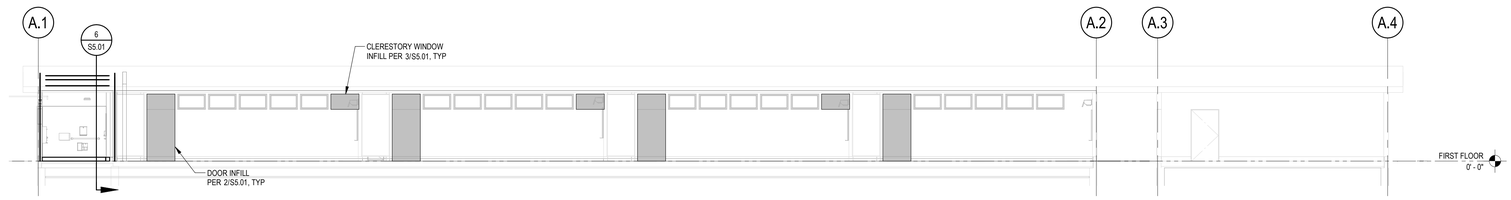
16 EXTERIOR ELEVATION - BLDG B (SOUTH)
1/8" = 1'-0"



17 EXTERIOR ELEVATION - BLDG A (NORTH)
1/8" = 1'-0"



24 EXTERIOR ELEVATION - BLDG A (WEST)
1/8" = 1'-0"



18 EXTERIOR ELEVATION - BLDG A (SOUTH)
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

STRUCTURAL ENGINEER
miyamoto.
1450 Halyard Drive, Suite One
West Sacramento, CA 95691
T: (916) 373-1995
miyamotointernational.com
M23/1020_R21

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

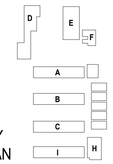
5224 EAST MORADA LANE
STOCKTON, CA 95212

100% CONSTRUCTION DOCUMENTS

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
JON S. DETERMAN
No. S4654
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 09/03/2025
DRAWN BY: CR CHKED BY: JE
REVISIONS

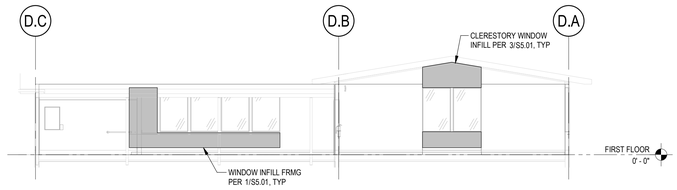
#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

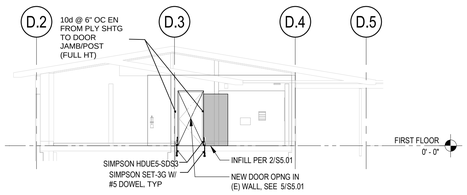
EXTERIOR ELEVATIONS BLDGS A, B, C

This document is for plan review only

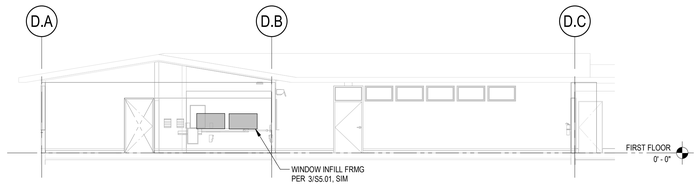
S3.01



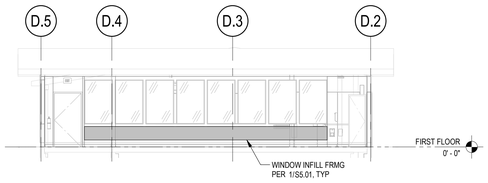
19 EXTERIOR ELEVATION - BLDG D (EAST)
1/8" = 1'-0"



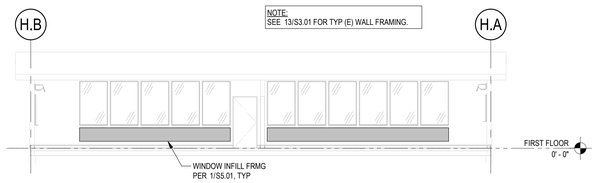
7 EXTERIOR ELEVATION - BLDG D (SOUTH)
1/8" = 1'-0"



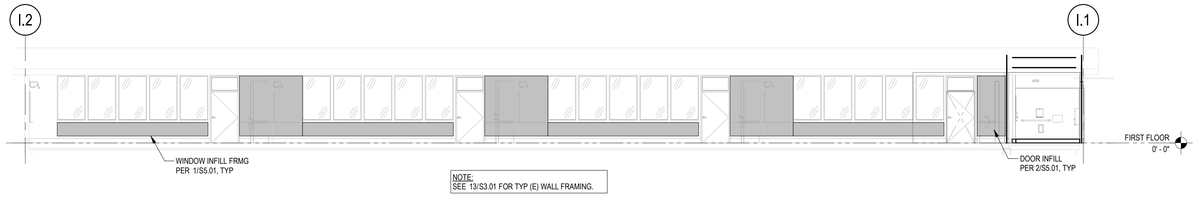
20 EXTERIOR ELEVATION - BLDG D (WEST)
1/8" = 1'-0"



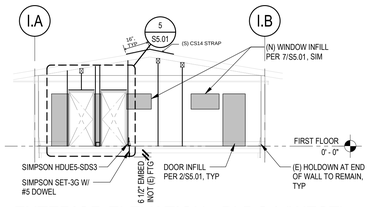
8 EXTERIOR ELEVATION - BLDG D (NORTH)
1/8" = 1'-0"



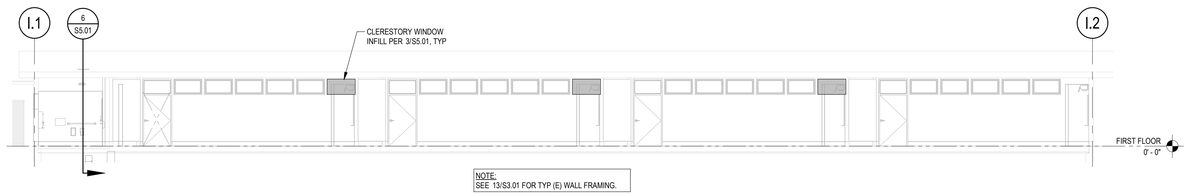
21 EXTERIOR ELEVATION - BLDG H (EAST)
1/8" = 1'-0"



17 EXTERIOR ELEVATION - BLDG I (NORTH)
1/8" = 1'-0"



24 EXTERIOR ELEVATION - BLDG I (WEST)
1/8" = 1'-0"



18 EXTERIOR ELEVATION - BLDG I (SOUTH)
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

STRUCTURAL ENGINEER
miyamoto.
1450 Halyard Drive, Suite One
West Sacramento, CA 95691
MI2301020_R21
T: (916) 373-1995
miyamotointernational.com

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

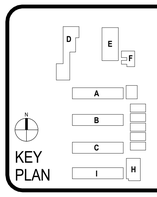
5224 EAST MORADA LANE
STOCKTON, CA 95212

100% CONSTRUCTION DOCUMENTS

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
JON R. DETERMAN
No. S4654
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 09/03/2025
DRAWN BY: CR CHKED BY: JE
REVISIONS

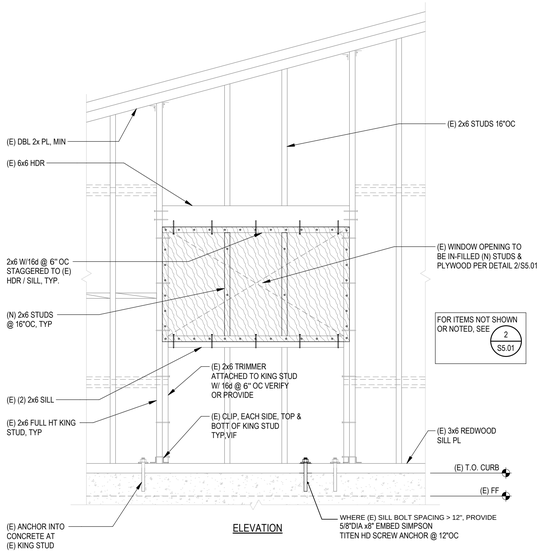
#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

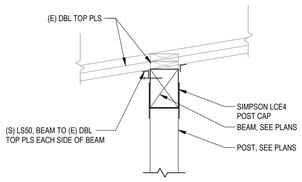
EXTERIOR ELEVATIONS BLDGS D, H, I

S3.02

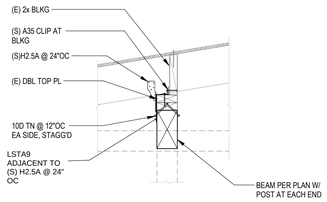
This document is for plan review only



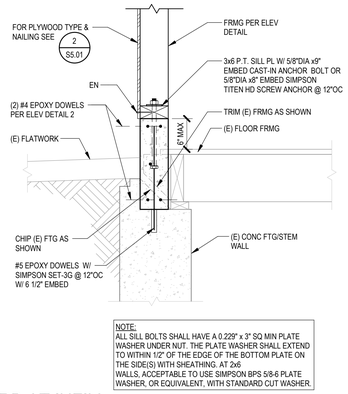
7 INFILL OF (E) WINDOW OPENING
3/4" = 1'-0"



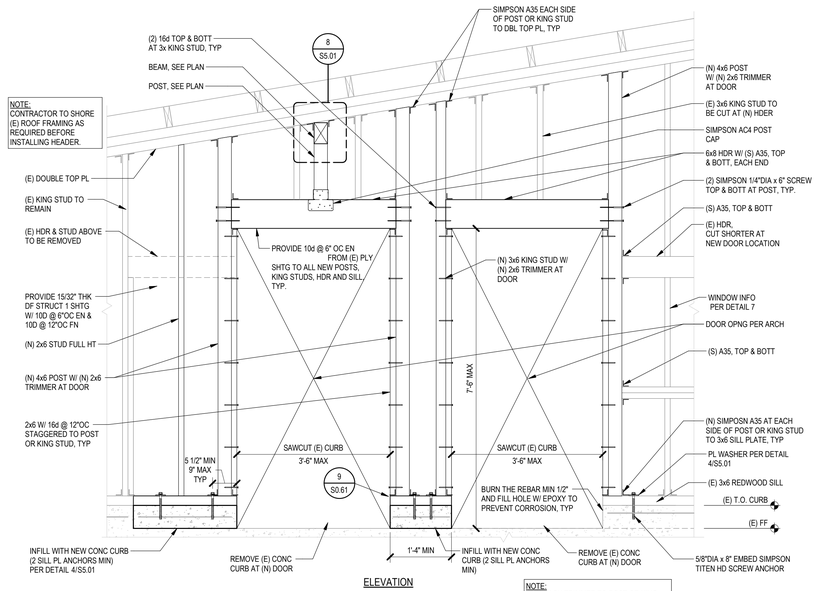
8 (N) POST TO BEAM CONNECTION
1" = 1'-0"



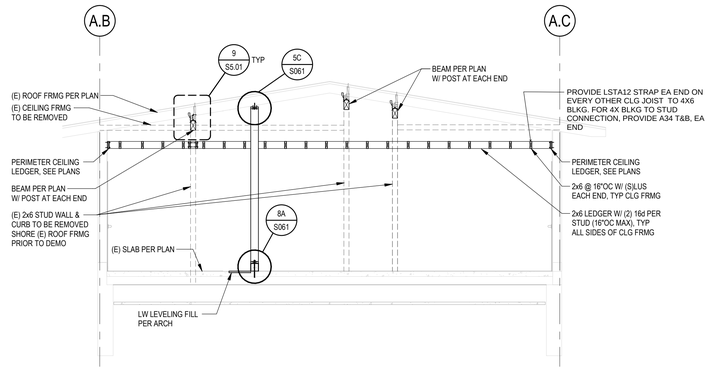
9 (N) BEAM FRAMING DETAIL
1" = 1'-0"



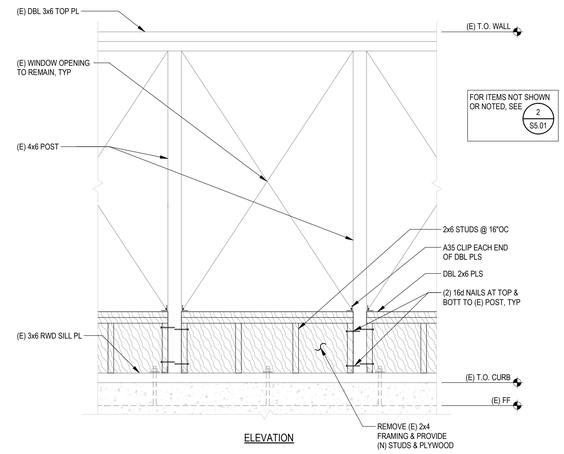
4 (N) CURB AT INFILL
1" = 1'-0"



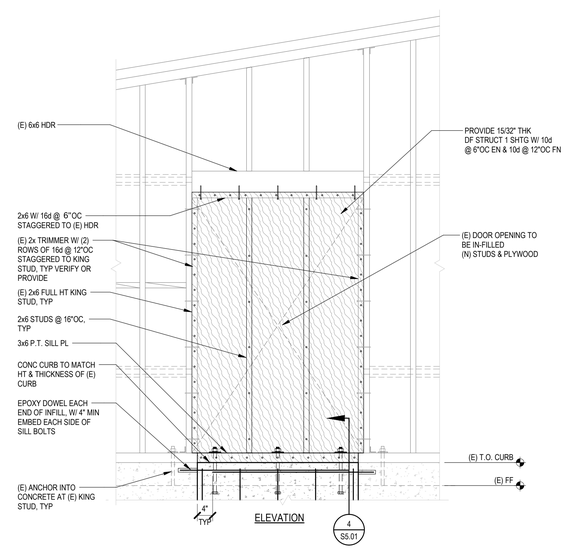
5 (N) DOOR OPENING IN (E) WALL
3/4" = 1'-0"



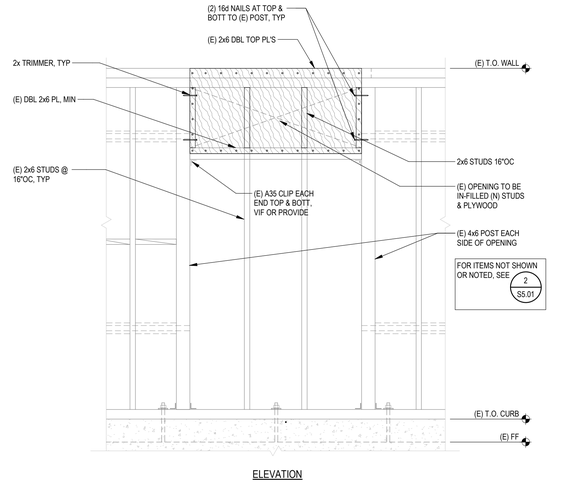
6 SECTION
1/4" = 1'-0"



1 PARTIAL INFILL OF (E) WINDOW OPENING
3/4" = 1'-0"



2 INFILL OF (E) DOOR OPENING
3/4" = 1'-0"



3 INFILL OF (E) CLERESTORY WINDOW OPENING
3/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

STRUCTURAL ENGINEER
miyamoto.
1450 Halyard Drive, Suite One
West Sacramento, CA 95691
T: (916) 373-1995
miyamotointernational.com
MI2301020_R21

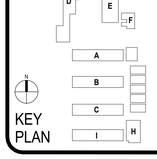
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

100% CONSTRUCTION DOCUMENTS
DSA-APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 09/03/2025
DRAWN BY: CR CHKED BY: JE

REVISIONS

#	DESCRIPTION	DATE

100% CONSTRUCTION DOCUMENTS

DETAILS

This document is for plan review only

S5.01

EXHAUST FAN SCHEDULE

NUMBER	REF-1	REF-2	REF-3	REF-4	CEF-1 & 2
MANUFACURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	G-070-VG	G-070-VG	G-090-VG	G-090-VG	SP-A250
TYPE	ROOF	ROOF	ROOF	ROOF	CEILING
MOUNTING	CURB	CURB	CURB	CURB	CEILING
WATTS / BHP / HP	- /- / $\frac{1}{6}$	- / - / $\frac{1}{6}$	- / .03 / -	- / .03 / -	80 / - / -
MCA / MOCP	1.6 / 15	1.6 / 15	1.9 / 15	1.9 / 15	0.7 / -
VOLTS / PHASE	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1
MINIMUM CFM	140	140	350	350	250
E.S.P. (IN. W.C.)	0.25	0.25	0.25	0.25	0.25
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
FAN RPM	1245	1245	1118	1118	999
SONES / dBA	2.5 / 40	2.5 / 40	4.5 / 47	4.5 / 4.7	2.5 / 42
CONTROL	LIGHTS/OCC.	LIGHTS/OCC.	LIGHTS/OCC.	LIGHTS/OCC.	LIGHTS/OCC.
WEIGHT (LBS)	35	35	45	45	35

NOTES:
1. PROVIDE BACKDRAFT DAMPER.
2. PROVIDE FACTORY SOLID STATE SPEED CONTROLLER MOUNTED WITHIN THE FAN CASING.
3. PROVIDE GRAVITY RELIEF HOOD AND ROOF CURB. GREENHECK MODEL GRSR AND GPI.
4. INTERLOCK START/STOP OPERATION WITH LIGHTS/WITCH/OCC. SENSOR.
5. PROVIDE FACTORY VARI-GREEN DRIVE.
6. PROVIDE FACTORY DISCONNECT SWITCH.
7. PROVIDE FACTORY ROOF CURB FOR ROOFTOP EXHAUST FANS.

EXHAUST HOOD SCHEDULE

NUMBER	EH-1
MANUFACTURER	GREENHECK
MODEL	GRSR-8
TYPE	GRAVITY
LOCATION	ROOF
CURB CAP (IN.)	19x19
ROOF OPENING (IN.)	8.25
HOOD SIZE (IN.)	20.25
HOOD HEIGHT (IN.)	11
MAXIMUM CFM	350
FPM / S.P. LOSS	600 / 0.08
SERVICE	SEE PLAN
OPER. WT. (LBS)	25

NOTES:
1. PROVIDE FACTORY 12" ROOF CURB
2. PROVIDE INSECT SCREEN.

AIR DISTRIBUTION SCHEDULE

SYMBOL	TYPE	DESCRIPTION
A	CEILING EXHAUST	35° ANGLE SINGLE DEFLECTION FIXED BLADE AT 1/2" O.C. WITH FRAME FOR SURFACE MOUNTING. TITUS MODEL 355RL.

NOTES:
1. EQUIVALENT MODELS OF NAILOR, KRUEGER, ANEMOSTAT, PRICE OR J&J ARE ACCEPTABLE.
2. REFER TO THE FLOOR PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN AND FIRE/ SMOKE DAMPER, IF REQUIRED.
3. PROVIDE AIR CONTROL GRID FOR ALL CEILING SUPPLY DIFFUSERS SET AT 90°.

MECHANICAL LEGEND

SYMBOL	ITEM	ABBR.
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OA
01 / M-1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
AC / 1	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	
A 10x10-3 120, F/S	GRILLE DESIGNATION NECK SIZE & BLOW FIRE/SMOKE DAMPER WHERE REQ'D CFM	
	ACOUSTIC LINED DUCT	
	TURNING VANES	TV
	DUCT FLEXIBLE CONNECTION	
	SUPPLY DUCT THRU ROOF	
	RETURN DUCT THRU ROOF	
	VOLUME CONTROL DAMPER	VCD
	FIRE/SMOKE DAMPER W/ACCESS	F/S
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
T	EMS TEMP. SENSOR/ THERMOSTAT, MOUNT @ 48" AFF TO TOP OF BOX	T'STAT
B	BYPASS TIMER	
S	SWITCH	
(E)	EXISTING	EXIST.
(N)	NEW	NEW
	METAL & FLEXIBLE DUCT	
	PIPE RISER	
	PIPE DROP	
— CWS —	CHILLED WATER SUPPLY	CWS
— CWR —	CHILLED WATER RETURN	CWR
— HWS —	HEATING WATER SUPPLY	HWS
— HWR —	HEATING WATER RETURN	HWR
	INCREASER/REDUCER	
	SAFETY RELIEF VALVE	
	GATE VALVE	GV
	GLOBE VALVE	
	PLUG VALVE	
	BALL VALVE	
	CHECK VALVE	CHK
	STRAINER	STR
	BUTTERFLY VALVE	
	NEEDLE VALVE	
	3-WAY VALVE	
	BALANCING VALVE	
	SENSOR WELL	
	THERMOMETER	
P	PRESSURE GAUGE	PG
	GAUGE COCK	GC
FS	FLOW SWITCH	FS
	THERMOMETER WELL	
	MOISTURE SENSOR	
	PRESSURE REGULATING VALVE	PRV
	PIPING FIRE WALL PENETRATION	
	POINT OF CONNECTION	POC
	EXHAUST DUCT THRU ROOF	
	DUCT SMOKE DETECTOR	
— CS —	COMBO HOT/CHILLED WATER SUPPLY	CS
— CR —	COMBO HOT/CHILLED WATER RETURN	CR
R	RA TEMP. SENSOR	
C	CARBON DIOXIDE SENSOR	
P	PRESSURE SENSOR	
	TEMPERATURE CONTROL PANEL	TCP
	UNLESS OTHERWISE NOTED	U.O.N.
	TRANSFER AIR GRILLE	TAG
	ABOVE FINISHED FLOOR	AFF
	ABOVE	ABV
	ABOVE CEILING	ABC
	ABOVE FINISHED GRADE	AFG
☑	ACCESS PANEL	AP
	AIR CONDITIONING	AC
	AIR PRESSURE DROP, INCHES WATER COLUMN	APD
	ANCHOR BOLT	AB
	BRAKE HORSE POWER	BHP
	BRITISH THERMAL UNITS (PER HOUR)	BTU(H)
	CENTER TO CENTER	CC
	CEILING	CLG
	CLEAR	CLR

MECHANICAL LEGEND CONTINUED

SYMBOL	ITEM	ABBR.
	CONCRETE	CONC
	CONDENSER	COND
	CONNECTION	CONN
	CONTINUATION	CONT
	CONTRACTOR	CONTR
	CUBIC FEET OF AIR FLOW PER MINUTE	CFM
	DAMPER	DPR
	DEGREES FAHRENHEIT	°F
Ø	DIAMETER, PHASE	DIA
	DOOR LOUVER	DL
	DOWN	DN
	DRAIN	DR
	DRY BULB (DEGREES FAHRENHEIT)	DB
	ELECTRICAL PANEL	EP
	ELEVATION	EL
	ENTERING	ENT
	ENTERING DRY BULB	EDB
	ENTERING WET BULB	EWB
	EVAPORATOR	EVAP
	EVAPORATIVE COOLER	EC
	EXHAUST AIR DAMPER	EAD
	EXHAUST FAN	EF
	EXTERNAL STATIC PRESSURE	ESP
	FEET PER MINUTE	FPM
	FIRE DAMPER	FD
	FLOOR	FLR
	FROM ABOVE	FA
	FROM BELOW	FB
	FULL LOAD AMPS	FLA
	GALLONS PER HOUR	GPH
	GALLONS PER MINUTE	GPM
	GALVANIZED	GALV
	GALVANIZED IRON	GI
	GAUGE	GA
	HEATING	HTG
	HUMIDSTAT, "X" INDICATES DEVICE CONTROLLED	H
	KILOWATTS	KW
	KILOWATT HOUR	KWH
	LEAVING DRY BULB IN DEGREES (FAHRENHEIT)	LDB
	LEAVING WET BULB IN DEGREES FAHRENHEIT	LWB
	LOCKED ROTOR AMPERES	LRA
	LOVER	LVR
	MANUFACTURER	MFR
	MAXIMUM	MAX
	MINIMUM	MIN
	ON CENTER	OC
	OUTSIDE AIR DAMPER	OAD
	OUTSIDE DIAMETER	OD
	OUTLET VELOCITY	OV
	OVERHEAD	OH
	POUNDS	LBS
	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)	PSI (G) (A)
	PRESSURE DROP	PD
	REFRIGERANT SUCTION PIPING	RS
	REFRIGERANT LIQUID PIPING	RL
	RETURN AIR DAMPER	RAD
	REVOLUTIONS PER MINUTE	RPM
	RUNNING LOAD AMPERES	RLA
	SHEET METAL	SM
	SPLITTER DAMPER	SD
	SQAURE FEET	SQFT
	SQAURE INCHES	SQIN
	STATIC PRESSURE	SP
	STATIC PRESSURE DROP	SPD
	SUPPLY FAN	SF
	TEMPERATURE CONTROL PANEL	TCP
	TEMPERATURE CONTROL VALVE	TCV
	THOUSAND BRITISH THERMAL UNITS PER HOUR	MBH
	TO ABOVE	TA
	TO BELOW	TB
	TOTAL PRESSURE	TP
	TOTAL STATIC PRESSURE	TSP
	TYPICAL	TYP
	UNDERGROUND	UG
	UNDER CUT DOOR	UCD
	VALVE	VLV
	WATTS	W
	WEIGHT	WT
	WET BULB	WB
	WIRE MESH SCREEN	WMS

SHEET INDEX

M0.01	MECHANICAL SHEET INDEX, LEGEND, NOTES & SCHEDULE
M2.01	MECHANICAL FLOOR PLANS
M2.01	MECHANICAL DETAILS

CAL-GREEN REQUIREMENTS

1. TESTING AND ADJUSTING. TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 303.1
2. SYSTEMS. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT:
   A. HVAC SYSTEMS AND CONTROLS.
   B. INDOOR AND OUTDOOR LIGHTING AND CONTROLS.
   C. WATER HEATING SYSTEMS.
   D. RENEWABLE ENERGY SYSTEMS.
   E. LANDSCAPE IRRIGATION SYSTEMS.
   F. WATER REUSE SYSTEMS.
3. PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.
   A. HVAC BALANCING. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE ENFORCING AGENCY.
4. REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
5. OPERATION AND MAINTENANCE (O & M) MANUAL. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.
   A. INSPECTIONS AND REPORTS. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
6. TEMPORARY VENTILATION. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM REPORTING VALUE (MERV) OF 13, BASED ON ASHRAE 52.2-1999 OR AN AVERAGE EFFICIENCY OF 30 PERCENT BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATIONS, AT THE CONCLUSION OF CONSTRUCTION.
7. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH WRAP, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.
8. 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 PROVIDE 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.
   EXCEPTIONS:
   A. AN ASHRAE 10-PERCENT TO 15-PERCENT EFFICIENCY FILTER SHALL BE PERMITTED FOR AN HVAC UNIT MEETING THE 2022 CALIFORNIA ENERGY CODE HAVING 60,000 BTY/H OR LESS CAPACITY PER FAN COIL, IF THE ENERGY USE OF THE AIR DELIVERY SYSTEM IS 0.4 W/CFM OR LESS AT DESIGN AIR FLOW.
   B. EXISTING MECHANICAL EQUIPMENT.
9. 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.
   A. CHLOROFLUOROCARBONS (CFCS). INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.
   B. HALONS. INSTALL HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.
10. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1

MEP COMPONENT ANCHORAGE NOTES

1. 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 2022CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

   A. ALL PERMANENT EQUIPMENT AND COMPONENTS.

   B. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

   C. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN400 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.

2. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

3. 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 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 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED THE 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 ☐ IR 16-13 SECTION 2.1: PROJECT SPECIFIC DESIGN

SHEET NUMBER(S): M6.01

MP ☐ MD ☐ PP ☐ E ☐ IR 16-13 SECTION 2.2: DESIGN BASED ON OSHPD OPM, PART OF PROJECT SUBMITTAL

OPM NUMBER(S): XX
SHEET NUMBER(S): XX

MP ☐ MD ☐ PP ☐ E ☐ IR 16-13 SECTION 2.2.6: DESIGN BASED ON OSHPD DEFERRED APPROVAL. OPM,

MECHANICAL GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL DUCTWORK ROUTING WITH WORK OF OTHER TRADES AND MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH PIPING, LIGHT FIXTURES, TRUSSES, ETC.
2. CONTRACTOR SHALL COORDINATE ALL GRILLE LOCATIONS AND CEILING TYPES PRIOR TO ORDERING GRILLES. SEE ARCHITECTURAL CEILING PLANS AND ELECTRICAL LIGHTING PLANS.
3. CONTRACTOR SHALL COVER ALL DUCT/ PIPE OPENINGS AND PROVIDE PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION AS REQUIRED PER CALGREEN SECTION 5.504.3.
4. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT VOLTAGES PRIOR TO ORDERING ANY EQUIPMENT.
5. FIRE/ SMOKE DAMPER ACCESS SHALL BE LARGE ENOUGH TO ALLOW INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING PARTS. THE ACCESS SHALL NOT AFFECT THE INTEGRITY OF THE FIRE-RESISTANCE-RATED ASSEMBLY AND SHALL NOT REDUCE THE FIRE- RESISTANCE RATING OF THE ASSEMBLY. ACCESS SHALL NOT REQUIRE THE USE OF TOOLS. ACCESS DOORS IN DUCTS SHALL BE TIGHT FITTING AND APPROVED FOR THE REQUIRED DUCT CONSTRUCTION. ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY LABEL WITH NOT LESS THAN 1/2 OF AN INCH (12.7 MM) IN HEIGHT READING THE FOLLOWING: FIRE/ SMOKE DAMPER.
6. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
7. MAINTAIN THE INTEGRITY OF ALL EXISTING FIRE RATED ASSEMBLIES, U.O.N.
8. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL CONFORM TO CFC CHAPTER 33. WELDING, CUTTING, AND OTHER HOT WORK SHALL BE IN CONFORMANCE WITH CFC CHAPTER 35.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

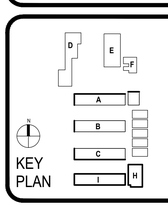
CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
230217

DATE 08/22/2025

DRAWN BY: CHKED BY:

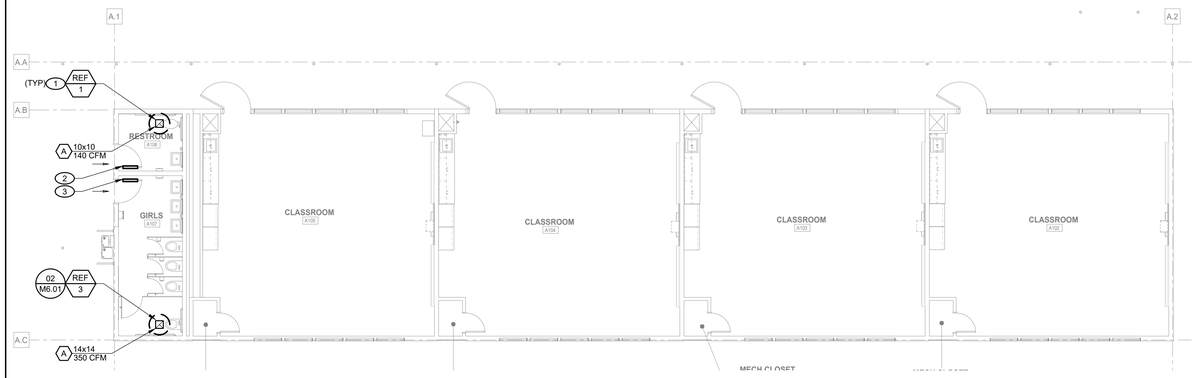
REVISIONS

#	DESCRIPTION	DATE

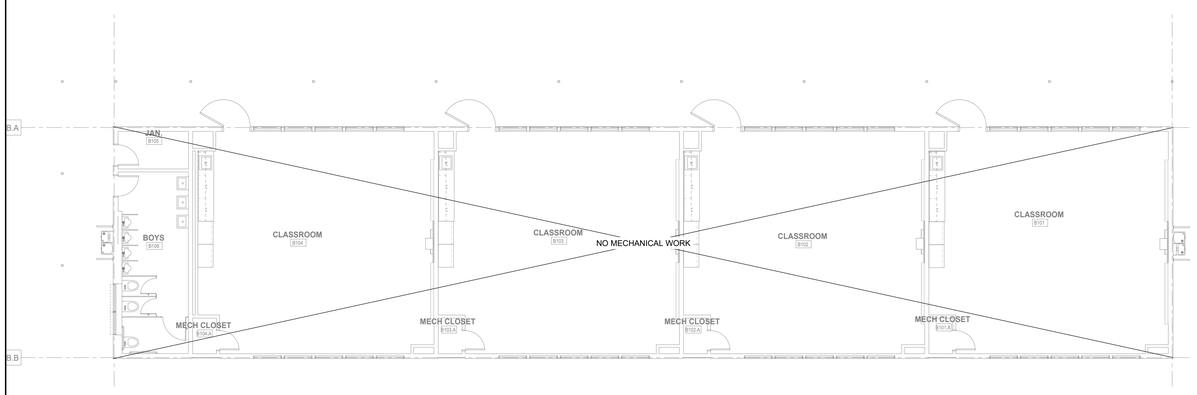
This document is for plan review only

MECHANICAL SHEET INDEX, LEGEND, NOTES & SCHEDULES

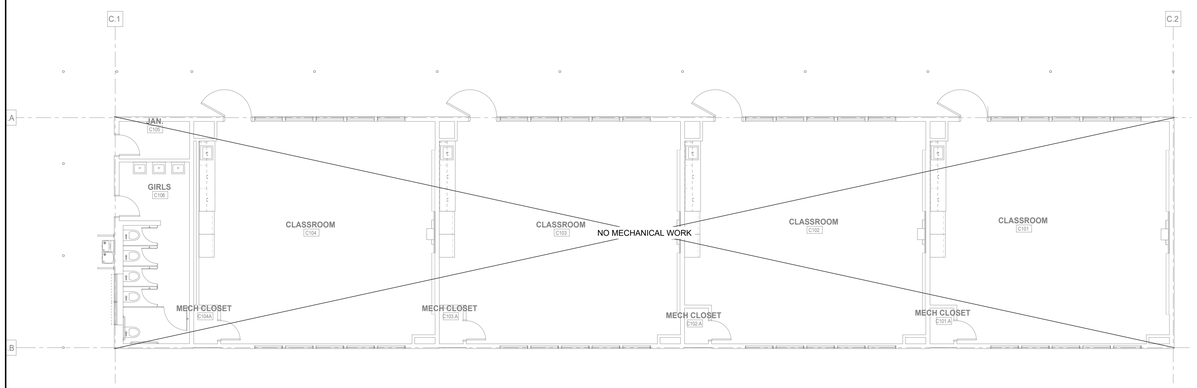
M0.01



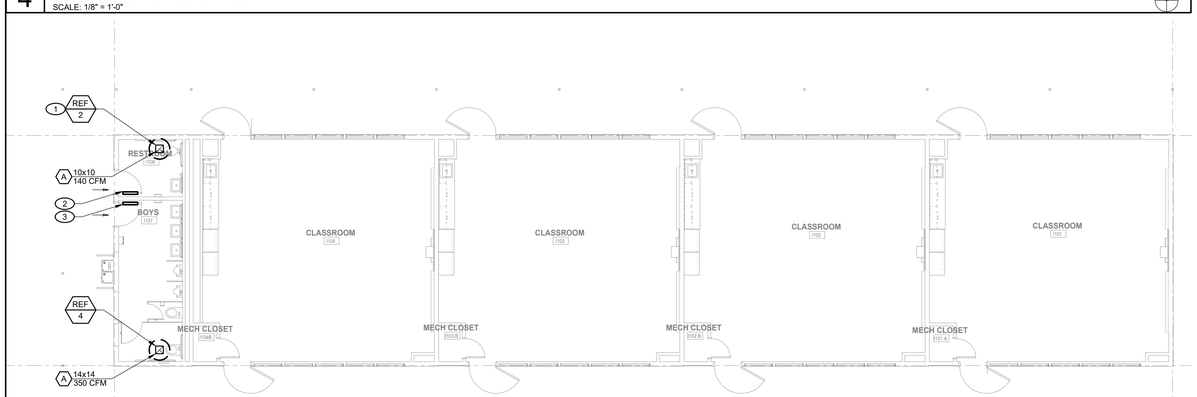
2 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



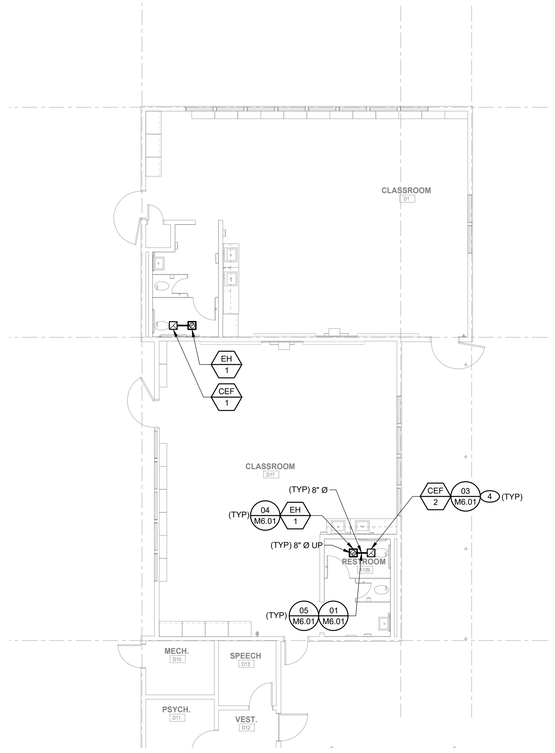
3 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



4 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



5 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE ROOF MOUNTED EXHAUST FAN. TRANSITION EXHAUST DUCT THROUGH ROOF TO GRILLE NECK SIZE. FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCING WORK. TYPICAL OF (4).
2. PROVIDE DOOR LOUVERS WITH A MINIMUM OF 0.75 SQ.FT. FREE AREA. COORDINATE LOUVER TYPE WITH ARCHITECTURAL PLANS. TYPICAL.
3. PROVIDE DOOR LOUVERS WITH A MINIMUM OF 1.5 SQ.FT. FREE AREA. COORDINATE LOUVER TYPE WITH ARCHITECTURAL PLANS. TYPICAL.
4. PROVIDE CEILING EXHAUST FAN. TRANSITION EXHAUST DUCT FROM FAN DISCHARGE TO ROOF MOUNTED EXHAUST VENT CAP NECK SIZE. TYPICAL OF (2).

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

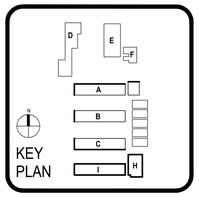
CONSULTANT LEAF Engineers
LEAFENGINEERS.com
LEAF ENGINEERS
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT



KEY PLAN



CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

MECHANICAL FLOOR PLANS

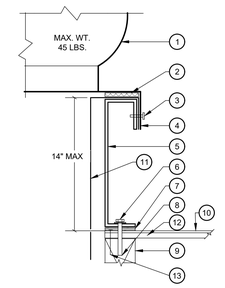
M2.11

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING (1)					
		MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	AT JOINTS				
			MIN. HT. IN.	DRIVE SLIP / PLAIN S SLIP	HEMMED S SLIP	ALTERN'T BAR SLIP	REIN-FORCED BAR SLIP
				RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1" x 1" x 1/8" @ 60 IN.	1		24	24	24
31 - 42	22	1" x 1" x 1/8" @ 60 IN.	1			22	22
43 - 60	20	1" x 1" x 1/8" @ 60 IN.	1				20
61 & ABOVE	18	1" x 1" x 1/8" @ 60 IN.	1				18

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

DUCT CONSTRUCTION STANDARDS 01

N.T.S

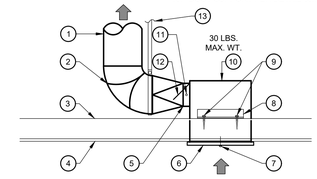


1. EXHAUST FAN.
2. 2" x 1/4" CONTINUOUS DENSE NEOPRENE SPONGE GASKET.
3. 1/4" DIA. SHEET METAL SCREW, (2) EACH SIDE.
4. FLASHING.
5. FACTORY 12" HIGH PRE-SLOPED CURB.
6. SILICONE SEAL BOLT HEAD.
7. SILICONE SEAL.
8. 3/8" DIA. LAG BOLT WITH 3" PENETRATION. (ONE PER CORNER)
9. 4X6 BLKG. W/SIMPSON A35 CLIPS EACH SIDE AND EACH END.
10. ROOF - SEE ARCH. DWGS.
11. EXHAUST DUCT.
12. REMOVE ROOFING AS REQUIRED FOR INSTALLATION OF UNIT AND DUCTWORK - SEE ARCH. DWGS. FOR ALL ROOFING REMOVAL AND REPAIR DETAILS.
13. 10d NAILS AT 6" o.c. PLYWOOD EDGE NAILING AROUND (n) PENETRATION.

ROOF EXHAUST FAN CURB 02

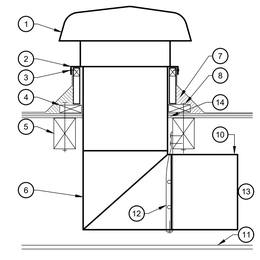
N.T.S

1. ROUND GALVANIZED SHEET METAL DUCT THRU ROOF, SEE MECHANICAL PLAN FOR SIZE.
2. ROUND GALVANIZED SHEET METAL 90° ELBOW.
3. 2x WOOD FRAMING OR 2x BLOCKING WITH U24 EACH END TO FRAMING.
4. GYPSUM BOARD CEILING, SEE ARCH. DRAWINGS.
5. SQUARE TO ROUND GALVANIZED SHEET METAL TRANSITION.
6. MOLDED WHITE PLASTIC GRILLE FURNISHED WITH EXHAUST FAN.
7. GRILLE BUTTON FURNISHED WITH FAN.
8. ADJUSTABLE MOUNTING FLANGE ON EACH SIDE, FURNISHED WITH EXHAUST FAN.
9. 1/4"Ø x 1-1/2" LAG SCREW INTO WOOD FRAMING OR BLOCKING.
10. CEILING MOUNTED EXHAUST FAN.
11. #7 x 1/2"Ø SHEET METAL SCREWS MIN. 4" O.C., TAPE WITH 2" HARDCAST TAPE
12. INTEGRAL BACKDRAFT DAMPER.
13. DUCT SUPPORT PER DETAIL 05/M0.02.



EXHAUST FAN CEILING MOUNTING 03

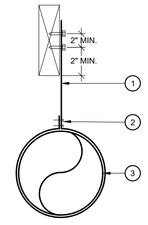
N.T.S



1. RELIEF HOOD, SEE MECH. PLAN.
2. FACTORY ROOF CURB FURNISHED WITH HOOD.
3. #12 SMS SCREW, AT EA. CORNER AND 12" O.C. MAX, MIN (2) PER SIDE.
4. 2x WOOD LEVELING BLOCK, SHAPED TO MATCH ROOF SLOPE.
5. 4x6 BLKG W/ U46 EA. END.
6. 22 GA. GALV. SHEET METAL DUCT WITH ELBOW, SEE MECH. PLAN.
7. CANT STRIP WITH ROOFING FELTS.
8. 3/8"Ø BOLT W/ WASHER & NUT THRU STRUCT. AT 24" O.C.
9. NOT USED
10. FINISHED ROOF, SEE ARCH. DWGS.
11. CEILING, SEE ARCH. DWGS.
12. DUCT STRAP HANGER, PER DETAIL 05/M5.01 AND SPECIFICATIONS.
13. DUCT CONTINUATION TO GRILLE.
14. REMOVE ROOFING AS REQUIRED FOR INSTALLATION OF UNIT AND DUCTWORK - SEE ARCH. DWGS. FOR ALL ROOFING REMOVAL AND REPAIR DETAILS.

RELIEF HOOD CURB 04

N.T.S



1. 1"x22 GA. GALV. S.M. STRAP, ATTACH TO STRUCTURE WITH (2) #10x1-1/4" CADMIUM PLATED SCREWS. MIN 1" EMBD.
2. (2) #10 x 3/4"Ø TEK SCREWS.
3. ROUND DUCTWORK, SEE PLAN FOR SIZE.

NOTES:
A. DUCT SUPPORTS SHALL BE 10'-0" O.C.
B. ALL DUCTS ARE LESS THAN 33"Ø, WEIGH 10 LBS./FT. OR LESS AND WILL NOT IMPACT OTHER DUCTS OR EQUIPMENT SO THEY DON'T REQUIRE DIAGONAL BRACING.

ROUND DUCT SUPPORT 05

N.T.S

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

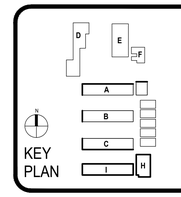
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

MECHANICAL DETAILS

M6.01

This document is for plan review only

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
WC 1	WATER CLOSET	3"	2"	1-1/4"	--	KOHLER K-84325 KINGSTON ELONGATED WALL MOUNTED WITH ZURN Z1201-N CARRIER, SLOAN ROYAL 111-1.28 ES-S MANUAL FLUSH VALVE WITH METAL COVER AND Z5955SS-EL OPEN-FRONT SEAT. 1.28 GPF. MOUNT FLUSH VALVE HANDLE ON WIDE SIDE OF STALL. SEE ARCH. SHEETS FOR MOUNTING HEIGHT.
WC 2	WATER CLOSET	3"	2"	1-1/4"	--	KOHLER K-84325 KINGSTON ELONGATED WALL MOUNTED WITH ZURN Z1201-N CARRIER, SLOAN ROYAL 111-1.28 ES-S MANUAL FLUSH VALVE WITH METAL COVER AND Z5955SS-EL OPEN-FRONT SEAT. 1.28 GPF. MOUNT FLUSH VALVE HANDLE ON WIDE SIDE OF STALL. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS.
WC 3	WATER CLOSET	3"	2"	1-1/4"	--	KOHLER K-96057 HIGHCLIFF ULTRA ELONGATED FLOOR MOUNTED WITH SLOAN ROYAL 111-1.28 ES-S MANUAL FLUSH VALVE WITH METAL COVER AND Z5955SS-EL OPEN-FRONT SEAT. 1.28 GPF. MOUNT FLUSH VALVE HANDLE ON WIDE SIDE OF STALL.
WC 4	WATER CLOSET	3"	2"	1-1/4"	--	KOHLER K-96053 WELLCOMME ELONGATED FLOOR MOUNTED WITH ZURN Z6200-HET MANUAL FLUSH VALVE WITH METAL COVER AND Z5955SS-EL OPEN-FRONT SEAT. 1.28 GPF.
U 1	URINAL	2"	1-1/2"	3/4"	--	KOHLER K-4991-ET BARDON WALL-HUNG FLUSH RIM, 3/4" TOP SPUD WITH SLOAN 186-0.125 MANUAL FLUSH VALVE. 1/8 GPF. AND MOUNTED WITH BACKING PLATE PER DETAIL 05/P6.01. WALL CLEAN-OUT TO BE MOUNTED ABOVE URINAL FOR ACCESS. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS.
L 1	LAVATORY	2"	1-1/2"	1/2"	--	KOHLER K-2007 KINGSTON, WALL-HUNG, 20"X18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, ONE HOLES. CHICAGO 116.101.AB.1 SINGLE SUPPLY, SENSOR FAUCET. CHICAGO 243.259.00.1 HARD-WIRE CLASS 2 TRANSFORMER WITH 4" MOUNTING PLATE. SERVES UP TO 8 FAUCETS. ELECTRICAL: 120V INPUT, 400mA OUTPUT. ZURN Z1253 WALL MOUNT CARRIER WITH CONCEALED ARMS MOUNTED PER DETAIL 05/P6.01. CONTRACTOR SHALL COORDINATE WITH WALL FRAMER TO AVOID CONFLICT WITH CARRIER. PROVIDE 0.35 GPM FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS.
L 2	LAVATORY	2"	1-1/2"	1/2"	1/2"	KOHLER K-2007 KINGSTON, WALL-HUNG, 20"X18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, ONE HOLES. CHICAGO 116.101.AB.1 SINGLE SUPPLY, SENSOR FAUCET. CHICAGO 243.259.00.1 HARD-WIRE CLASS 2 TRANSFORMER WITH 4" MOUNTING PLATE. SERVES UP TO 8 FAUCETS. ELECTRICAL: 120V INPUT, 400mA OUTPUT. ZURN Z1253 WALL MOUNT CARRIER WITH CONCEALED ARMS MOUNTED PER DETAIL 05/P6.01. CONTRACTOR SHALL COORDINATE WITH WALL FRAMER TO AVOID CONFLICT WITH CARRIER. PROVIDE 0.35 GPM FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS.
S 1	SINK	2"	1-1/2"	1/2"	--	ELKAY DRKADQ3119652LM. CLASSROOM SINK, 31" X 19-1/2"X6-1/2" 18 GA. TYPE 304, REAR DRAIN LOCATION, PROVIDE WITH LKAD18 OFFSET FLAT GRID STRAINER, P-TRAP, SUPPLIES AND STOPS. CHIGAGO 350-E35VPABCP SINGLE HOLE, GOOSENECK FAUCET WITH LEVER HANDLE FAUCET (1.5 GPM), HAWS 5017LF PUSH BUTTON BUBBLER AND JUST J-ADA-35-FS PERFORATED GRID DRAIN, SPEEDWAY COMPRESSION, P-TRAP, WALL STOPS AND SUPPLY TUBING. CBC COMPLIANT FOR ACCESS.
S 2	SINK	2"	1-1/2"	1/2"	--	ELKAY DRKAD311940. CLASSROOM SINK, 31" X 19-1/2"X4" 18 GA. TYPE 304, REAR DRAIN LOCATION, PROVIDE WITH LKAD18 OFFSET FLAT GRID STRAINER, P-TRAP, SUPPLIES AND STOPS. CHIGAGO 350-E35VPABCP SINGLE HOLE, GOOSENECK FAUCET WITH LEVER HANDLE FAUCET (1.5 GPM), HAWS 5017LF PUSH BUTTON BUBBLER AND JUST J-ADA-35-FS PERFORATED GRID DRAIN, SPEEDWAY COMPRESSION, P-TRAP, WALL STOPS AND SUPPLY TUBING. CBC COMPLIANT FOR ACCESS.
AP 1	ACCESS PANEL	--	--	--	--	ELMDOR DW SERIES 12" x 12" WALL ACCESS PANEL WITH GALVANNEALED STEEL AND PRIME COAT FINISH, CYLINDER LOCK.
SB 1	SUPPLY BOX	--	--	1/2"	--	SPECIALTY PRODUCTS #OB509-LL RECESSED METAL WATER SUPPLY BOX WITH SHUT-OFF VALVE AND WATER HAMMER ARRESTOR..
WHA 1	WATER HAMMER ARRESTER	--	--	VARIES	VARIES	PPP SC-750B, SEAMLESS COPPER CHAMBER SUITABLE FOR CONCEALED INSTALLATION, PDI SIZE INDICATED ON PLANS. INSTALL PER MANUFACTURER RECOMMENDATION. INSTALL AT END OF LINE AT ALL QUICK CLOSING FIXTURES.
TP 1	TRAP PRIMER	--	--	1/2"	--	PRECISION PLUMBING PRODUCTS INC. P1-500 TRAP PRIMER VALVE WITH DISTRIBUTION UNIT AND INTEGRAL VACUUM BREAKER. PROVIDE INLET BALL VALVE AND ACCESS PANEL. SEE PLANS FOR NO. OF TRAPS SERVED (MAXIMUM OF 4).
HB 1	HOSE BIBB	--	--	3/4"	--	BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER, & ROUGH CHROME FINISH FOR OUTDOORS; WOODFORD 24P-3/4 WITH WALL FLANGE AT WALLS.
HB 2	HOSE BIBB	--	--	3/4"	--	BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER, & POLISHED CHROME INDOORS.WOODFORD 24P-3/4 WITH WALL FLANGE AT WALLS.
DF 1	DRINKING FOUNTAIN (ACCESS.)	2"	1-1/2"	1/2"	--	HAWS 1119.14-BP32-1920-6469 WALL-HUNG HIGH-LOW 14 GA. STAINLESS STEEL UNIT WITH PUSH BUTTON BOTTLE FILLER, BACK PANEL AND DROP TRAY, SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT.
FD 1	FLOOR DRAIN	2"	1-1/2"	TP	--	ZURN Z415-5B COATED CAST IRON WITH 5" ROUND CHROME PLATED GRATE. DOUBLE DRAINAGE FLANGE & NO HUB OUTLET. TRAP PRIMER CONNECTION. GRATE OPENING NOT MORE THAN 1/4".
WH 1	WATER HEATER	--	--	1/2"	1/2"	CHRONOMITE CM-15L/208, WALL MOUNTED INSTANTANEOUS TYPE, 61 DEG RISE AT 0.35 GPM. MOUNT TIGHT UNDER LAVATORY. FACTORY PRESET 110° F OUTPUT TEMPERATURE. ELECTRICAL: 208 V/ 1 PH, 15 AMPS, 3120 WATTS

NOTES:
1. ALL PLUMBING FIXTURES, FLUSH VALVES, FAUCETS, FLOOR DRAINS, FLOOR SINKS, DRINKING FOUNTAINS, ETC. SHALL BE VANDAL RESISTANT.
2. ALL PLUMBING FIXTURES SHALL COMPLY WITH CAL GREEN FLOW RATES FOR 20 PERCENT FLOW RATE REDUCTION PER TABLE 5.303.2.3.
3. FIXTURES WITH HARD WIRED SENSORS: PLUMBER TO PROVIDE TRANSFORMER AND INSTALL ALL LOW VOLTAGE WIRING. ELECTRICAL TO PROVIDE POWER TO TRANSFORMER. PROVIDE A TRANSFORMER FOR UP TO 8 SENSORS WITH MAXIMUM DISTANCE OF 20 FT FROM TRANSFORMER TO SENSOR. TRANSFORMER TO BE MOUNTED IN A 4"X4" JUNCTION BOX MOUNTED AT +18" A.F.F. WITH A BLANK STAINLESS STEEL COVER PLATE. All WIRE TO BE CONCEALED IN CONDUIT WITHIN WALL. WIRING AT WALL HUNG FIXTURES SHALL BE PROTECTED FROM VANDALISM.
4. PROVIDE SEPARATE STOP VALVES AT SINKS FOR FAUCETS, BUBBLERS, DISHWASHER, EYEWASHES, ETC.
5. PROVIDE WRAP BELOW ALL ADA LAVATORIES AND SINKS. HOT AND COLD-WATER SUPPLY AND DRAIN PIPES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVS OR SINKS.

CAL GREEN REQUIREMENTS

THE FOLLOWING SHALL BE REQUIRED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED IN DRAWINGS AND/OR SPECIFICATIONS:

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

5.303.1.1 NEW BUILDINGS OR ADDITIONS IN EXCESS OF 50,000 SQUARE FEET:

1. FOR EACH INDIVIDUAL LEASED, RENTED, OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTEED TO CONSUME MORE THAN 100 GAL/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:
   a. MAKE-UP WATER FOR COOLING TOWERS WHERE FLOW THROUGH IS GREATER THAN 500 GPM.
   b. MAKE-UP WATER FOR EVAPORATIVE COOLERS GREATER THAN 6 GPM.
   c. STEAM AND HOT-WATER BOILERS WITH ENERGY INPUT MORE THAN 500,000 BTUH/H.

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.

5.303.2 RESERVED

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 U.S. 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:

5.303.3.3.1 SINGLE SHOWERHEAD: SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 2.0 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 SHOWERHEADS AND/OR SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 2.0 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 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 CYCLE/20 (RIM SPACE (INCHES) AT 60 PSI).
NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

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 CHAPTER 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 ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND 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 ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO START OF AND DURING THE HANGING AND BRACING OF DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E — OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
☐ ☐ ☒ ☐

MP MD PP E — OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) #_____; AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.
☐ ☐ ☐ ☐

GENERAL NOTES

1. SUPPORT AND BRACING OF ALL PIPING SHALL BE IN ACCORDANCE WITH 2022 C.B.C. AND PER APPROVED DRAWINGS.
2. DRAINAGE PIPING SMALLER THAN 4" SHALL SLOPE 1/4" PER FOOT.
3. FOR PLUMBING FIXTURE MOUNTING HEIGHTS AND LOCATIONS, REFER TO ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PIPE ROUTING WITH WORK OF OTHER TRADES AND MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH DUCTWORK, LIGHT FIXTURES, SKYLIGHTS, ETC.
5. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL GAS AND CONDENSATE DRAIN CONNECTIONS TO MECHANICAL EQUIPMENT.
6. ALL PIPE, PIPE OR PLUMBING FITTING OR FIXTURE, SOLDER, OR FLUX SHALL BE LEAD FREE THAT PROVIDES WATER FOR HUMAN CONSUMPTION PER CALIFORNIA ASSEMBLY BILL 1953.
7. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS.
8. MANUFACTURED COMPONENTS (CONNECTIONS ANNOTATED IN OPM) FOR MECHANICAL, ELECTRICAL OR PLUMBING HANGER SUPPORT AND BRACING NOT REQUIRING WELDING ARE EXEMPT FROM SPECIAL INSPECTION.

SHEET INDEX

P0.01	PLUMBING SHEET INDEX, LEGEND, NOTES & SCHEDULES
P1.01	PLUMBING OVERALL SITE PLAN
PD2.10	PLUMBING DEMOLITION FLOOR PLANS - WASTE & VENT
PD2.20	PLUMBING DEMOLITION FLOOR PLANS - COLD & HOT WATER
P2.10	PLUMBING FLOOR PLANS - WASTE & VENT
P2.20	PLUMBING FLOOR PLANS - COLD & HOT WATER
P6.01	PLUMBING DETAILS
P7.01	PLUMBING ENERGY COMPLIANCE DOCUMENTAITON

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
S 1	FIXTURE DESIGNATION UNIT ABBREVIATION NUMBER	
D1 M1.1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HW RETURN	HWR
	EXISTING PIPING	
	POINT OF CONNECTION	POC
C	CONDENSATE DRAIN	VCD
	SHUT-OFF VALVE IN BOX	SOV
	PIPING RISE	OBD
	PIPING DROP	BDD
S	SOIL OR WASTE	S OR W
V	VENT	V
	VENT THRU ROOF	VTR
AW	ACID WASTE	AW
	ACID VENT	AV
AV	ACID VENT THRU ROOF	AVTR
	FLOOR CLEANOUT	FCO
	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	HOSE BIBB	HB
RD	ROOF DRAIN	RD
OD	OVERFLOW DRAIN	OD
	DOWN SPOUT	DS
	BELOW GRADE	BG
TP	TRAP PRIMER	TP
SD	STORM DRAIN	SD
(E)	EXISTING	EXIST.
(N)	NEW	NEW
	UNDERFLOOR	UF
	OVERHEAD	OH
R	RELIEF	
D	DRAIN	
	CONDENSATE DRAIN CLEANOUT	CO
SD	SECONDARY CONDENSATE DRAIN	
FC	FURNACE CONDENSATE	
	GAS SHUT OFF VALVE	GSOV
	SAFETY RELIEF VALVE	
	GATE VALVE	GV
	PLUG VALVE	
	BALL VALVE	
P	PRESSURE GAUGE	PG
	FIRE WALL PENETRATION	
	CONDENSATE DRAIN TRAP	CDT
LPG	LIQUIFIED PETROLEUM GAS	LPG
G	NATURAL GAS	G
	FIRE SPRINKLER RISER	FSR
FSL	FIRE SPRINKLER LINE	FSL
	FIRE DEPARTMENT CONNECTION	FDC
	FINISHED FLOOR	FF
	ABOVE FINISHED FLOOR	AFF
	ABOVE FINISHED GRADE	AFG
	CEILING	CLG
	CONTINUATION	CONT.
	DRAWING	DWG
	EACH	EA
	FEET	FT
	HORSEPOWER	HP
	INVERT ELEVATION	IVT
	KILOWATTS	KW
	MECHANICAL	MECH
	SQUARE FEET	SF
	TYPICAL	TYP
TF	TRANSFORMER	TF

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

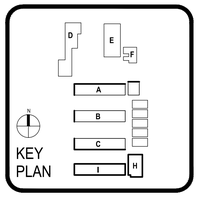
CONSULTANT — LEAF Engineers — LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-122250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT



REGISTERED PROFESSIONAL ENGINEER
GORDON M. LEDGERWOOD
NO. 33380
REN. 6/30/27
MECHANICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER 230217
DATE 08/22/2025
DRAWN BY: CHKED BY:

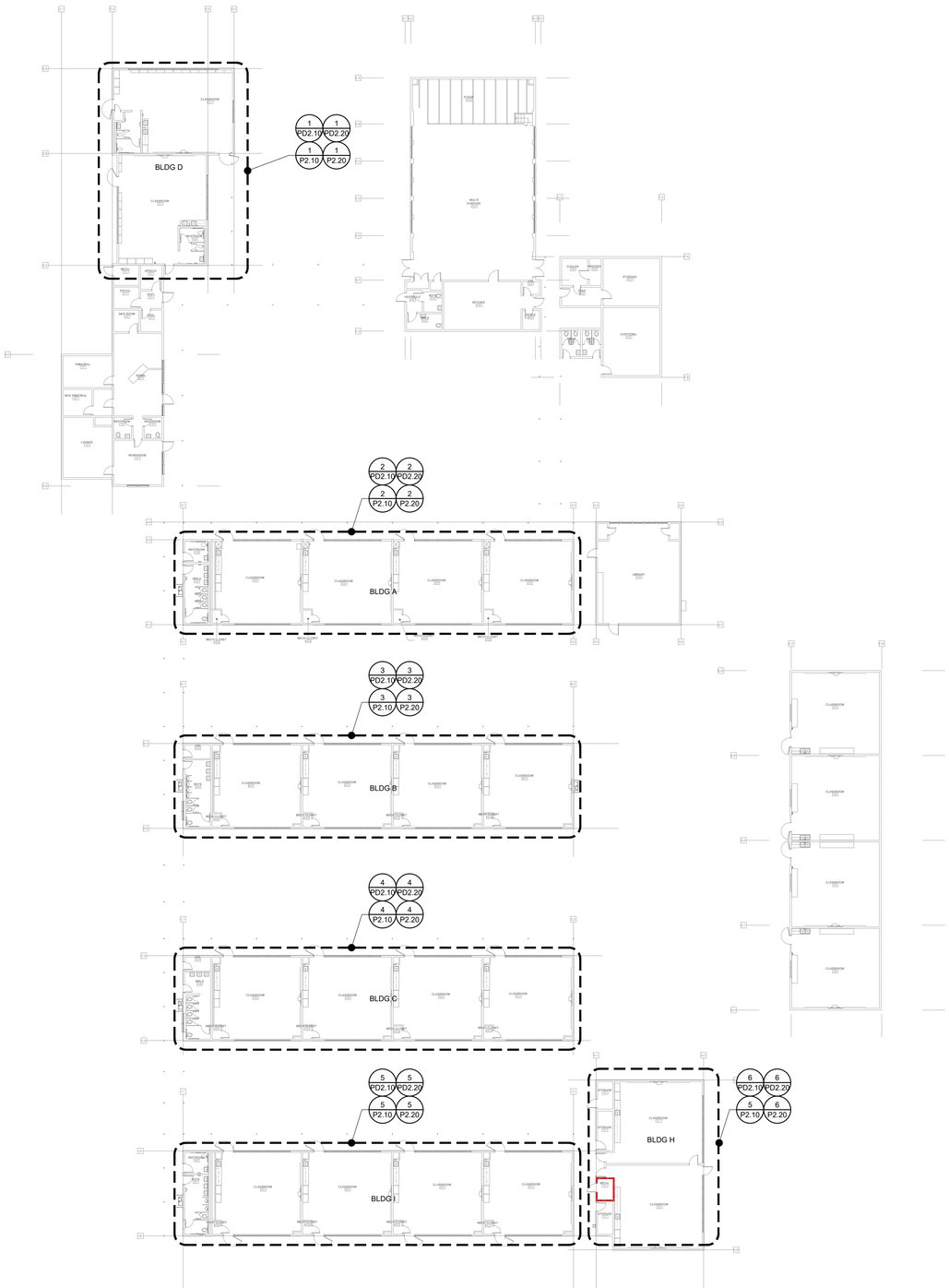
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

PLUMBING SHEET INDEX, LEGEND, NOTES

P0.01



1 PLUMBING SITE PLAN
SCALE: 1" = 20'-0"

SHEET NOTES

1. AREAS IDENTIFIED BY ENLARGED PLAN CALLOUTS HERE ARE THE ONLY AREAS OF WORK WITHIN THE PLUMBING SET. ALL OTHER BUILDINGS SHOWN ARE FOR CLARITY ONLY.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

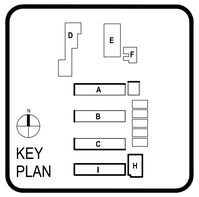
CONSULTANT LEAF Engineers
LEAFENGINEERS.com
LEAF ENGINEERS
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT



KEY PLAN



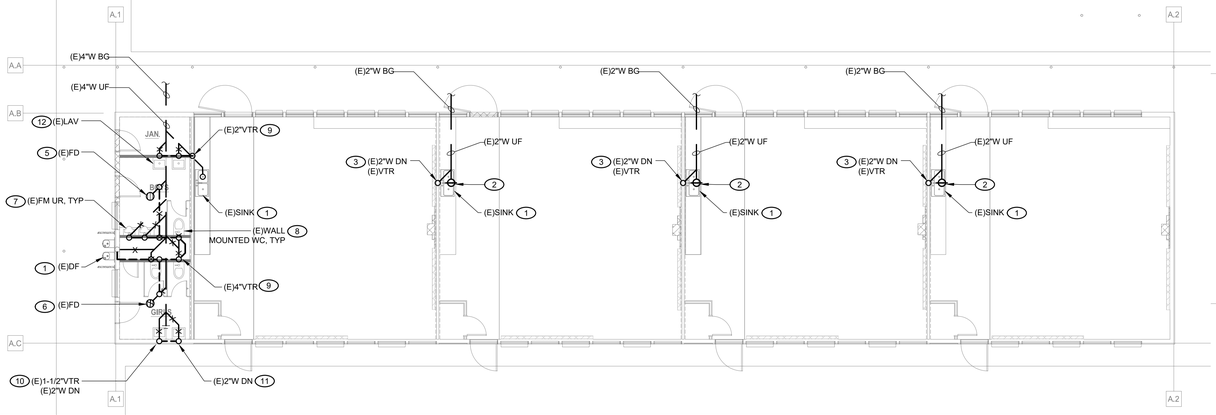
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

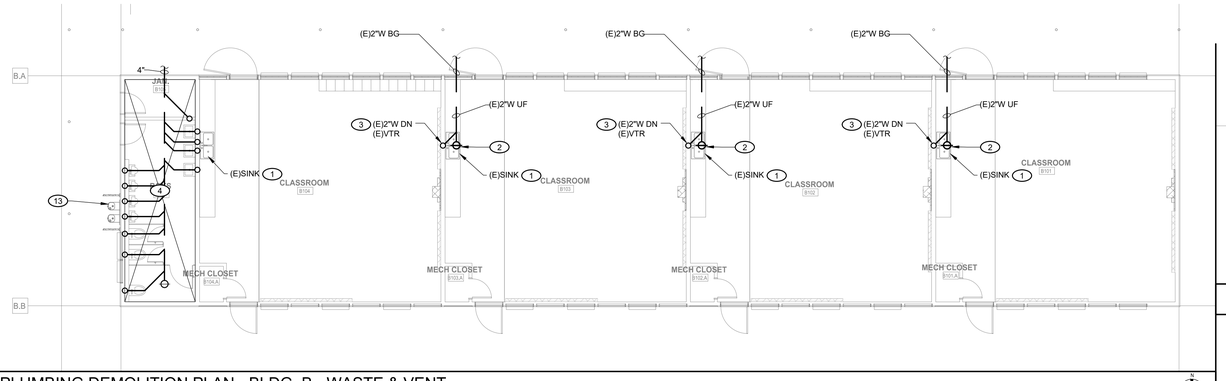
PLUMBING SITE PLAN

P1.01



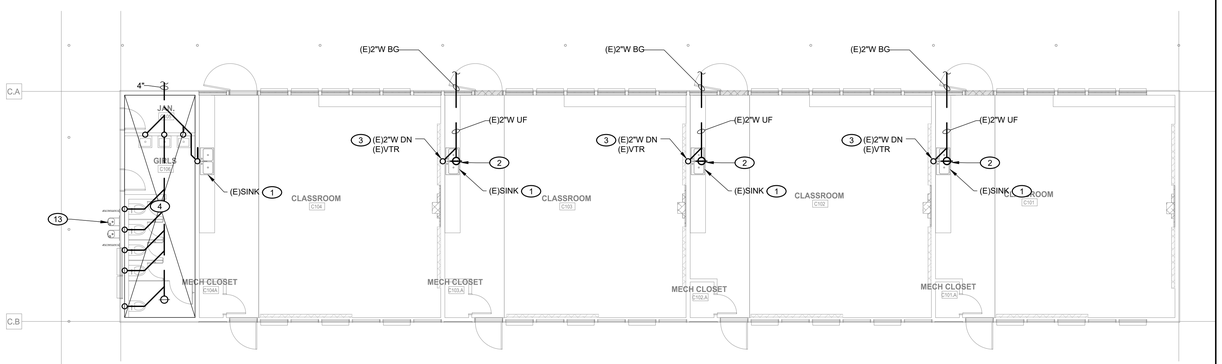
2 PLUMBING DEMOLITION PLAN - BLDG. A - WASTE & VENT

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



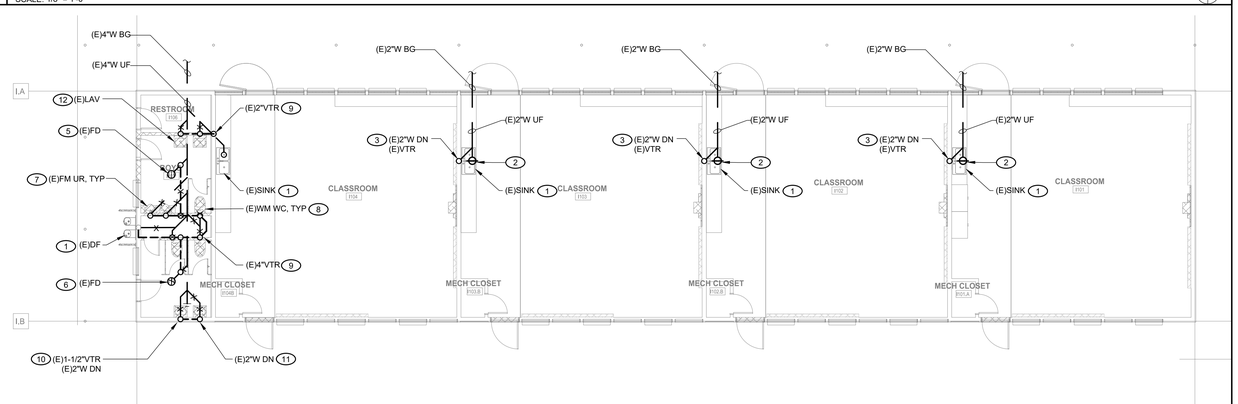
3 PLUMBING DEMOLITION PLAN - BLDG. B - WASTE & VENT

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



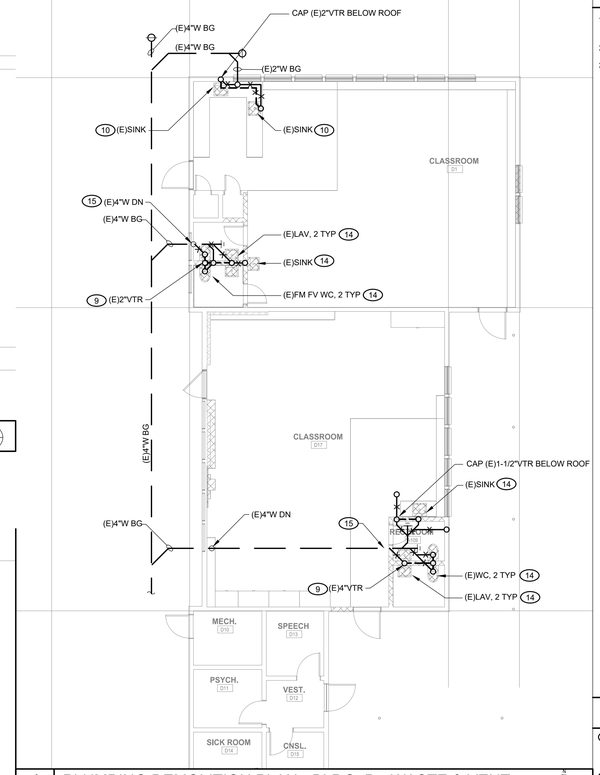
4 PLUMBING DEMOLITION PLAN - BLDG. C - WASTE & VENT

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



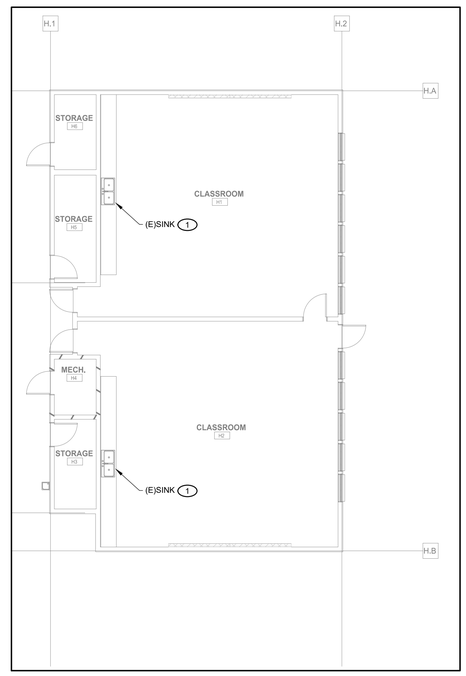
5 PLUMBING DEMOLITION PLAN - BLDG. I - WASTE & VENT

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



1 PLUMBING DEMOLITION PLAN - BLDG. D - WASTE & VENT

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



6 PLUMBING DEMOLITION PLAN - BLDG. H - WASTE & VENT

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

SHEET NOTES

1. ALL WASTE PIPING IS BELOW THE SLAB IN CRAWL SPACE UNLESS NOTED OTHERWISE.
2. REFER TO SHEET **P2.10** FOR NEW WORK PLANS.
3. FOR WATER DEMOLITION PLANS REFER TO SHEET **PD2.20.**

KEYNOTES

1. REMOVE (E) FIXTURE, SUPPLIES AND STOPS, AND CARRIER, AS REQUIRED. MAINTAIN AND PREPARE (E) WASTE AND VENT RISER/DROP LOCATION FOR NEW CONNECTION.
2. (E) FCO BELOW CABINET TO REMAIN.
3. (E) WASTE DROP AND VTR TO REMAIN. PREPARE FOR RECONNECTION FROM NEW FIXTURE.
4. ALL FIXTURES WITHIN THE HATCHED AREA ARE TO REMAIN. NO WORK.
5. (E) FLOOR DRAIN TO REMAIN. REMOVE VENT TO RISER LOCATION AND TO ABOVE CEILING AND CAP. MAINTAIN VENT CONNECTION FOR NEW RISER LOCATION.
6. REMOVE (E) FLOOR DRAIN AND WASTE PIPE AND CAP AT WASTE MAIN CONNECTION. REMOVE VENT RISER TO ABOVE CEILING AND CAP.
7. REMOVE (E) FLOOR MOUNTED URINAL. REMOVE WASTE BELOW FLOOR AND VENT RISER TO ABOVE CEILING. CAP WASTE BELOW FLOOR AT WASTE MAIN CONNECTION.
8. REMOVE (E) WALL MOUNTED WATER CLOSET, SUPPLY AND STOP AND CARRIER. REMOVE WASTE BACK TO WASTE MAIN CONNECTION AND CAP. REMOVE VENT TO ABOVE CEILING AND CAP.
9. MAINTAIN (E) VTR FOR RECONNECTION WITH NEW FIXTURE INSTALLATION.
10. REMOVE (E) FIXTURE, SUPPLIES AND STOPS AND CARRIER AS REQUIRED. CAP WASTE AND VENT BEHIND WALL.
11. REMOVE (E) FIXTURE, SUPPLIES AND STOPS AND CARRIER AS REQUIRED. REMOVE WASTE TO BELOW FLOOR BACK TO MAIN AND PREPARE (E) 2" WASTE CORE THROUGH FLOOR FOR NEW 4" CONNECTION TO MAIN.
12. REMOVE (E) FIXTURE, SUPPLIES AND STOPS AND CARRIER AS REQUIRED. CAP WASTE BELOW FLOOR AND VENT ABOVE CEILING BACK TO VTR. PREPARE VENT ABOVE CEILING FOR NEW CONNECTION TO (E) VTR.
13. REMOVE (E) DRINKING FOUNTAIN AND ALL APPURTENANCES AND PREPARE WASTE, VENT AND WATER LINES FOR NEW CONNECTION TO EXISTING PIPING.
14. REMOVE (E) FIXTURE, WASTE BELOW FLOOR AND VENT TO ABOVE CEILING. PRESERVE WASTE DROP TO BELOW FLOOR FOR NEW CONNECTION.
15. POINT OF DEMOLITION. PREPARE FOR NEW CONNECTION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
LEAF ENGINEERS
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

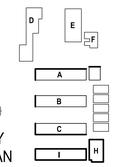
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
230217

DATE 08/22/2025

DRAWN BY: CHKED BY:

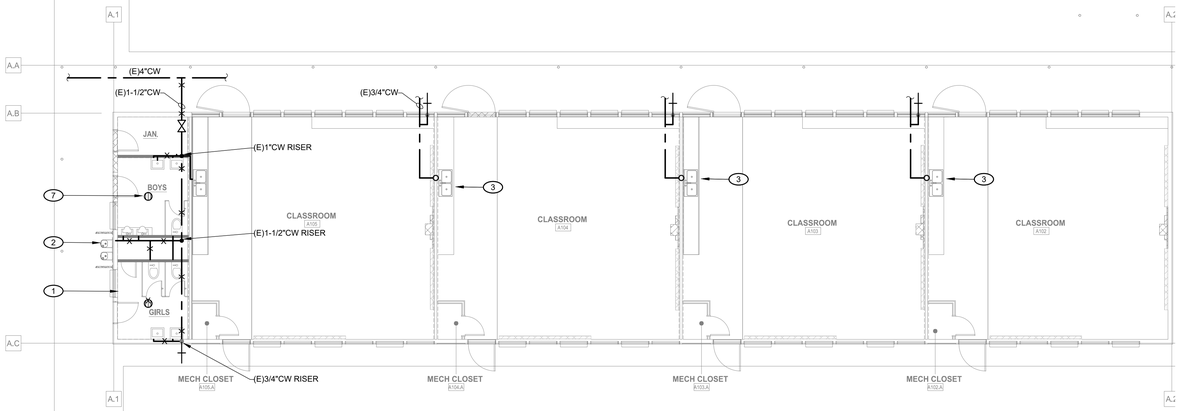
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

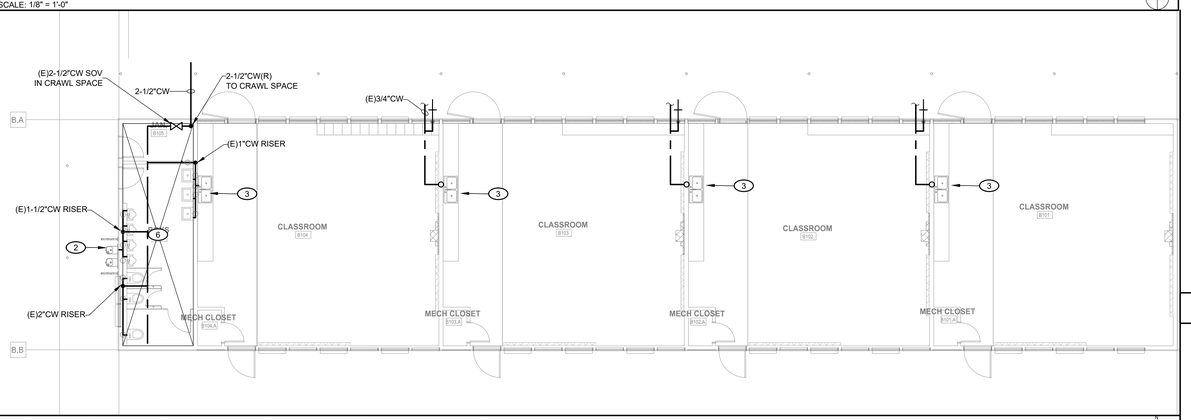
PLUMBING DEMOLITION PLANS - WASTE & VENT

PD2.10



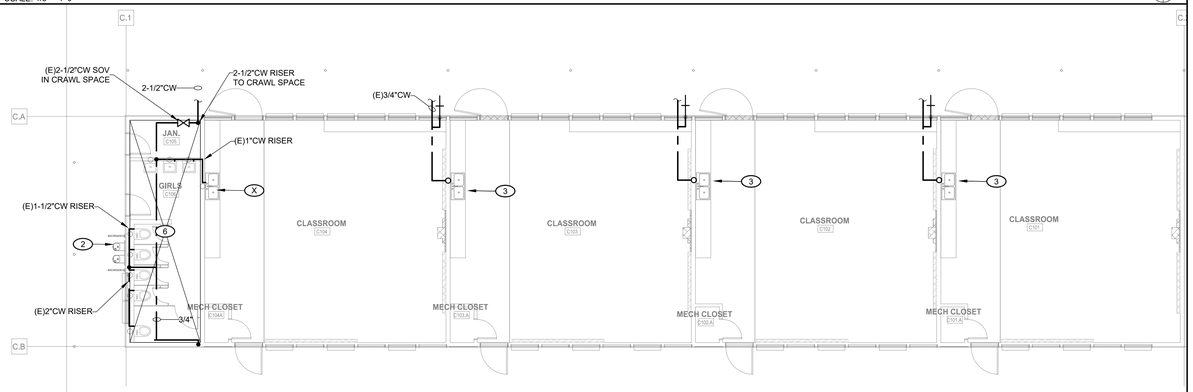
2 PLUMBING DEMOLITION PLAN - BLDG. A - COLD & HOT WATER

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



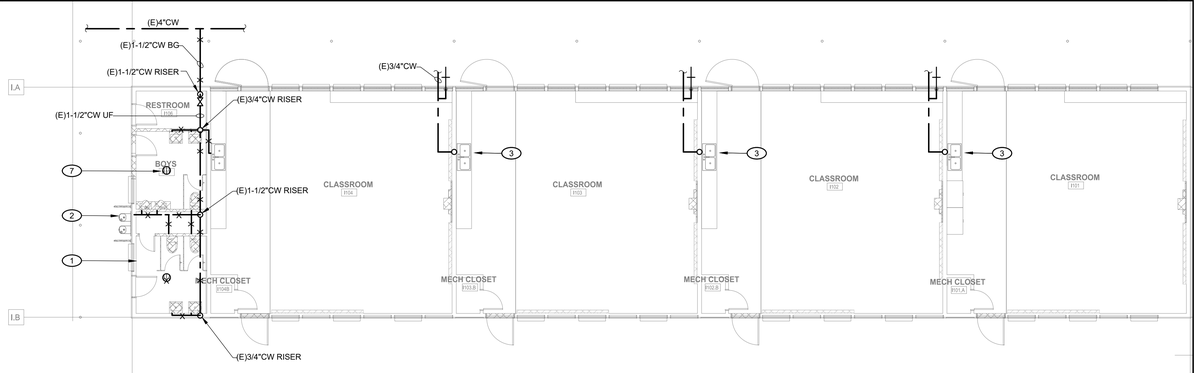
3 PLUMBING DEMOLITION PLAN - BLDG. B - COLD & HOT WATER

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



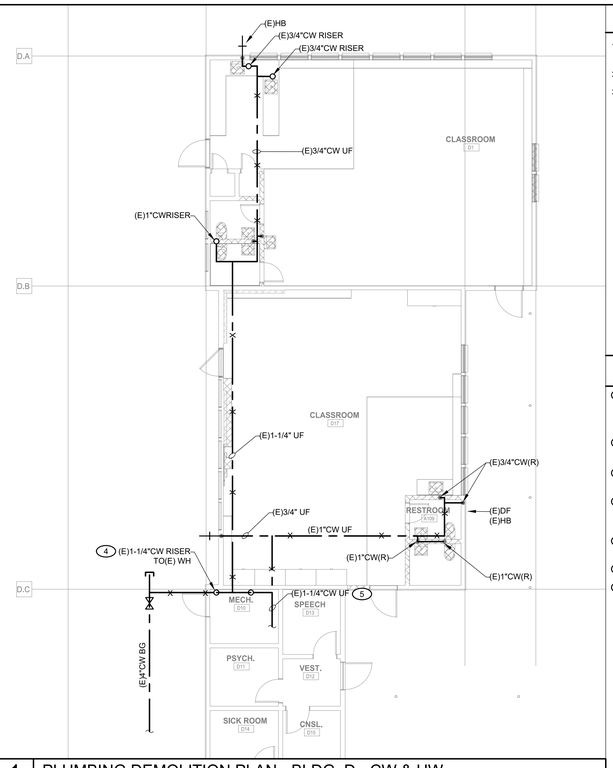
4 PLUMBING DEMOLITION PLAN - BLDG. C - COLD & HOT WATER

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



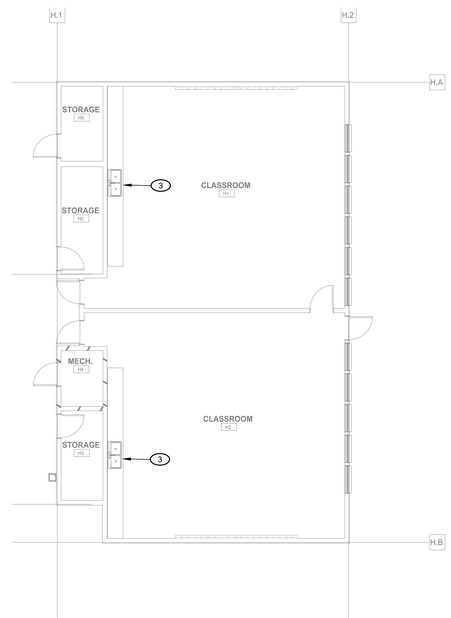
5 PLUMBING DEMOLITION PLAN - BLDG. I - COLD & HOT WATER

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



1 PLUMBING DEMOLITION PLAN - BLDG. D - CW & HW

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



6 PLUMBING DEMOLITION PLAN - BLDG. H - CW & HW

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

SHEET NOTES

1. ALL WATER PIPING IS BELOW THE SLAB IN CRAWL SPACE UNLESS NOTED OTHERWISE.
2. REFER TO SHEET **P2.20** FOR NEW WORK PLANS.
3. FOR WASTE DEMOLITION PLANS REFER TO SHEET **PD2.10.**

KEYNOTES

1. REMOVE ALL (E) FIXTURES AND ALL APPURTENANCES WITHIN THE WALLS OF THE RESTROOMS AS IDENTIFIED. ALL WATER DROPS TO BELOW CRAWL SPACE AND TO BELOW GRADE ARE TO BE REMOVED BACK TO SITE ACTIVE MAIN AND CAPPED.
2. REMOVE DRINKING FOUNTAIN AND ALL APPURTENANCES. REMOVE WATER BELOW CRAWL SPACE BACK TO MAIN AS SHOWN.
3. REMOVE (E) SINK WATER TO BELOW FLOOR. REMOVE ALL STOPS AND PREPARE FOR NEW SINK LOCATION AND RECONNECTION OF ALL SERVICES.
4. MAINTAIN COLD WATER RISER TO MECHANICAL SPACE AND TO (E) WATER HEATER. DEMOLITION TO BE THE REMOVAL OF (E) PIPE FOR ENLARGED PIPE SIZE IN ITS PLACE.
5. MAINTAIN WATER ACCESS TO (E) BUILDING. DEMOLITION TO BE A MAXIMUM OF 4 HOURS SHUT DOWN. COORDINATE WITH THE FACILITY.
6. NO WORK WITHIN HATCHED AREA
7. MAINTAIN (E) FIXTURE. PROVIDE NEW TRAP PRIMER CONNECTION IF REQUIRED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

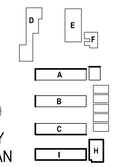
CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-122250 FILE NO. 39-50

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
GORDON M. LERCHEN
NO. 33380
REN. 8/31/27
MECHANICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:

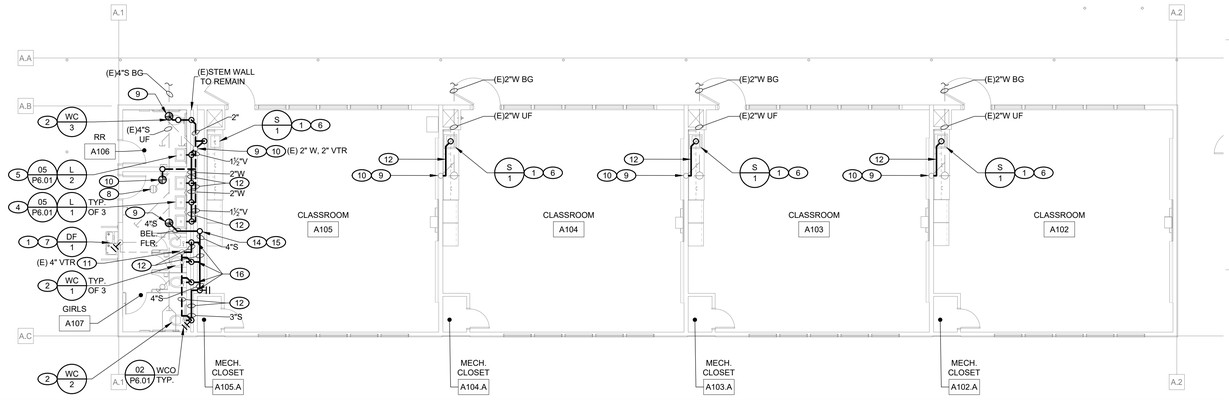
REVISIONS

#	DESCRIPTION	DATE

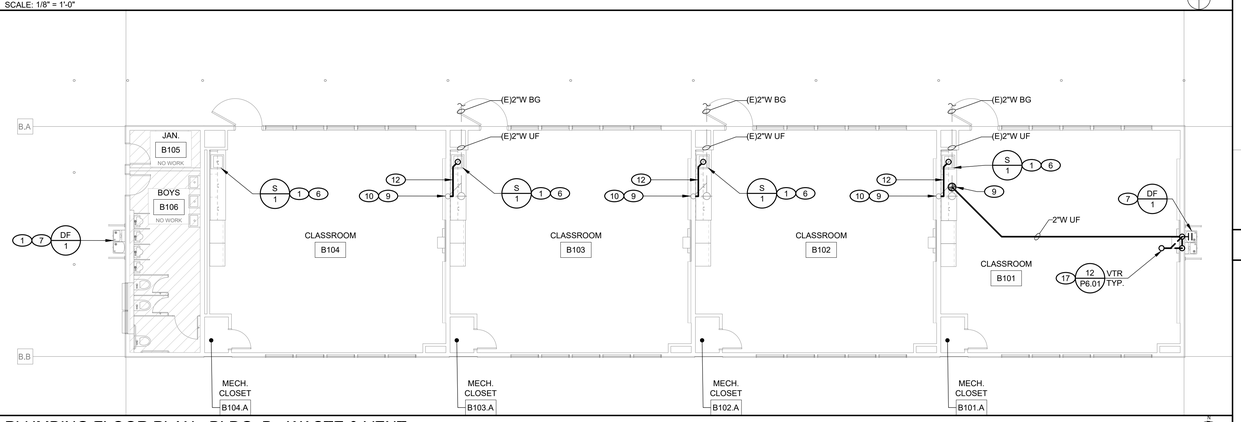
This document is for plan review only

PLUMBING DEMOLITION PLANS - COLD & HOT WATER

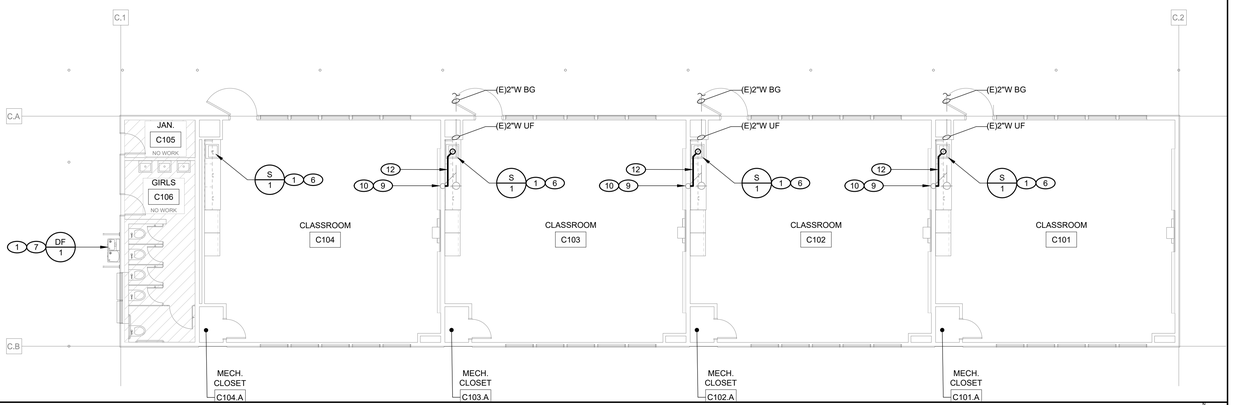
PD2.20



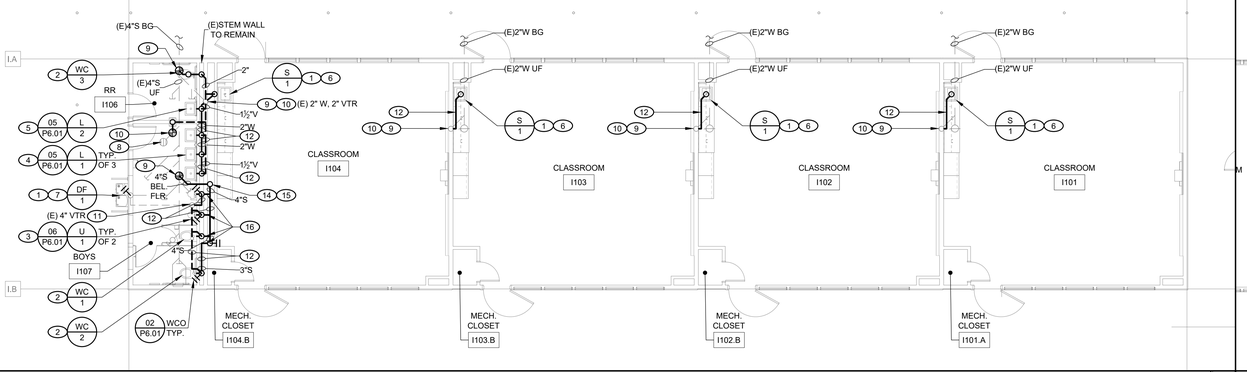
2 PLUMBING FLOOR PLAN - BLDG. A - WASTE & VENT
SCALE: 1/8" = 1'-0"



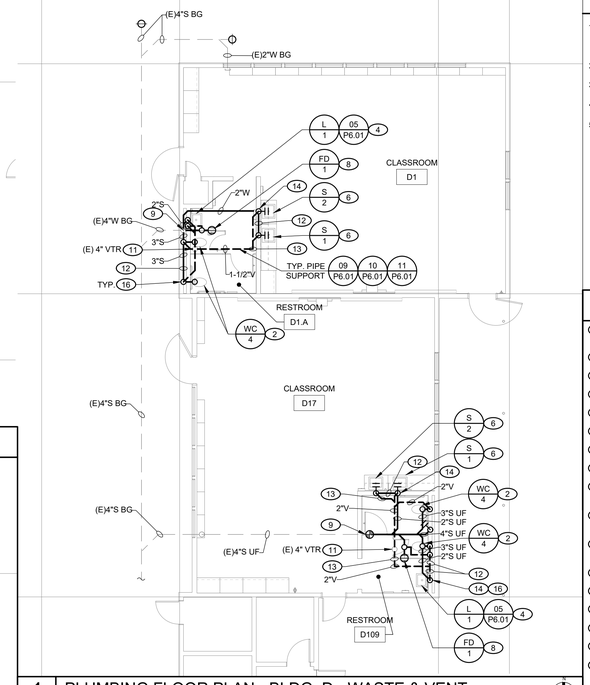
3 PLUMBING FLOOR PLAN - BLDG. B - WASTE & VENT
SCALE: 1/8" = 1'-0"



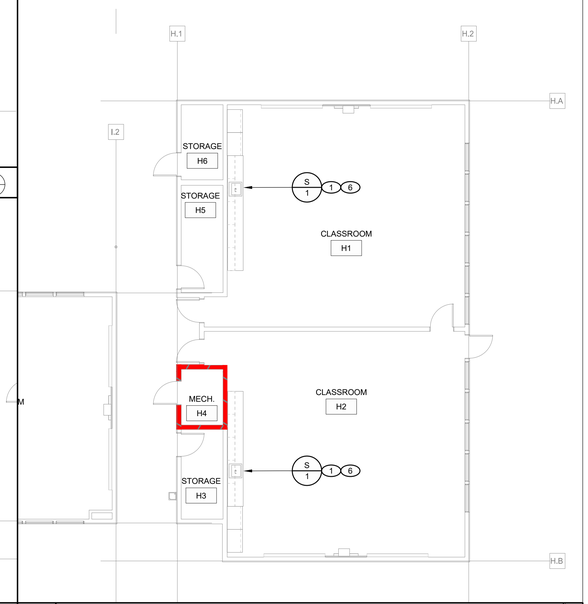
4 PLUMBING FLOOR PLAN - BLDG. C - WASTE & VENT
SCALE: 1/8" = 1'-0"



5 PLUMBING FLOOR PLAN - BLDG. I - WASTE & VENT
SCALE: 1/8" = 1'-0"



1 PLUMBING FLOOR PLAN - BLDG. D - WASTE & VENT
SCALE: 1/8" = 1'-0"



6 PLUMBING FLOOR PLAN - BLDG. H - WASTE & VENT
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. ALL WASTE PIPING IS BELOW THE SLAB IN CRAWL SPACE UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR SPECIFICS.
2. REFER TO SHEET **PD2.10** FOR DEMOLITION PLANS.
3. ALL WASTE AND VENT SHALL SLOPE AT 1/4" PER FOOT.
4. FOR WATER PLANS REFER TO SHEET **P2.20.**
5. NOT ALL FIXTURES ARE CALLED OUT ON THIS SHEET. FIXTURES RELATED TO WATER PLANS SPECIFICALLY CAN BE FOUND ON SHEET **P2.20.**

KEYNOTES

1. INSTALL (N) FIXTURE, ROUGH-IN AND CONNECT TO (E) PLUMBING. MODIFY PLUMBING AS REQUIRED TO ACCOMMODATE NEW FIXTURE.
2. 1-1/2" CW, 3" S. & 2" VENT TYP. FOR WATER CLOSET.
3. 3/4" CW, 2" S. WITH WCO & 1-1/2" VENT TYP. FOR URINAL.
4. 1/2" CW, 2" S. & 1-1/2" VENT TYP. FOR L-1.
5. 1/2" CW & HW, 2" S. & 1-1/2" VENT TYP. FOR L-2.
6. 1/2" CW, 2" S. & 1-1/2" VENT TYP. FOR SINKS.
7. 1/2" CW, 2" S. WITH WCO & 1-1/2" VENT TYP. FOR EACH SIDE OF DF-1.
8. 1/2" TRAP PRIMER CONNECTION, 2" S. & 1-1/2" VENT TYP. FOR FLOOR DRAINS.
9. CONNECT (N) SEWER TO (E) SEWER. FIELD VERIFY SIZE, LOCATION AND CONDITION OF (E) SEWER LINE PRIOR TO THE START OF WORK.
10. CONNECT (N) VENT TO (E) VENT. FIELD VERIFY SIZE, LOCATION AND CONDITION OF (E) VENT LINE PRIOR TO THE START OF WORK.
11. CONNECT (N) VENT TO (E) VTR. FIELD VERIFY SIZE, LOCATION AND CONDITION OF (E) VTR PRIOR TO THE START OF WORK.
12. OFFSET PIPE IN WALL OR CHASE.
13. OFFSET PIPE ABOVE CEILING.
14. SEWER PIPE DROP BELOW (E) FLOOR.
15. SEWER PIPE THRU EXISTING STEM WALL. SEE DETAIL 3/S0.13 FOR CORED HOLE.
16. SEE DETAIL 6/S0.61 FOR PIPE PENETRATION AT (E) WOOD WALL.
17. (N) 1-1/2" VTR.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

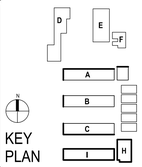
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
GAREN M. LERCOMIS
NO. 33390
REN. 8/31/27
MECHANICAL
STATE OF CALIFORNIA

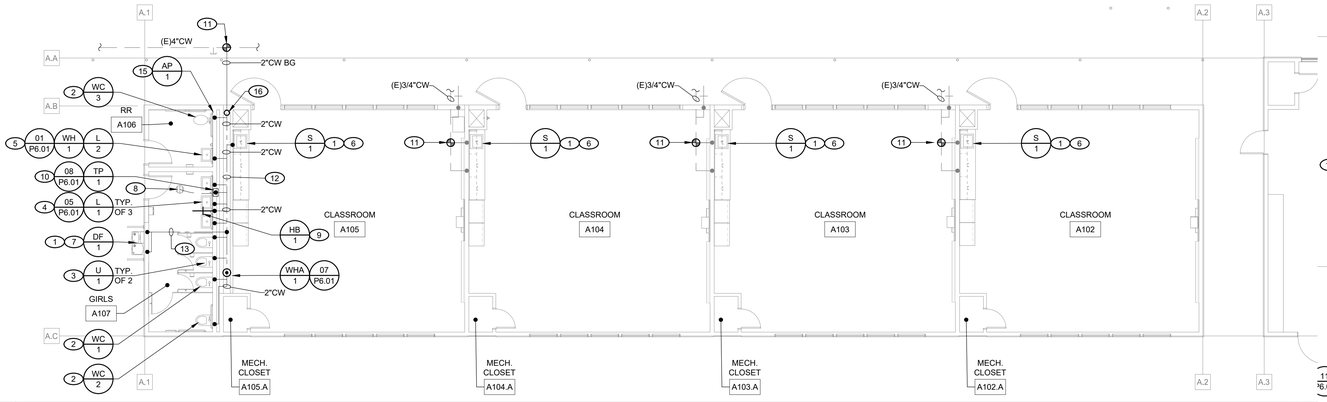
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER 230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

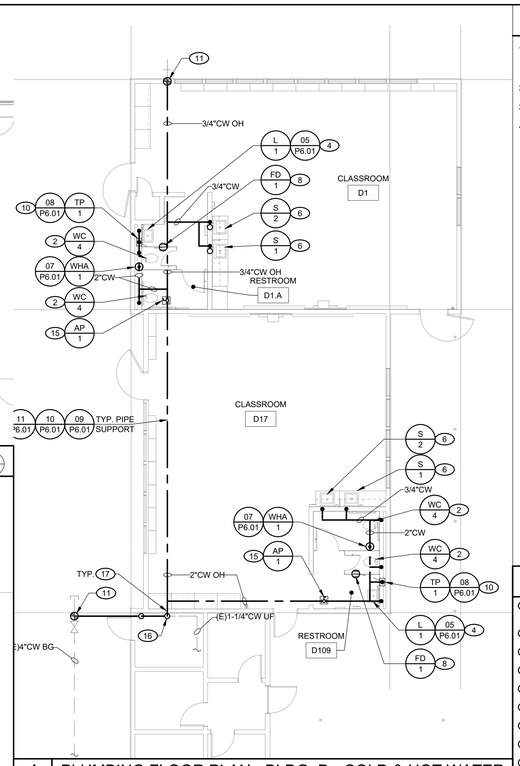
PLUMBING FLOOR PLANS - WASTE & VENT

P2.10



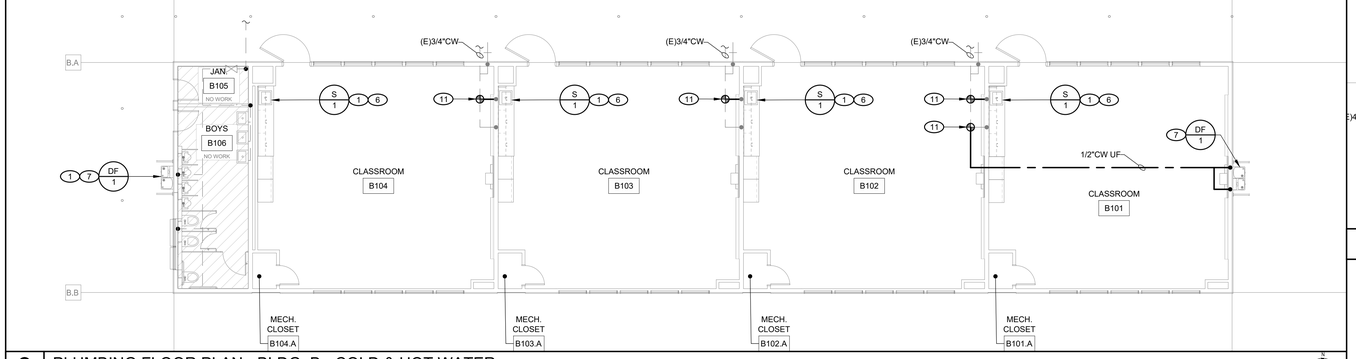
2 PLUMBING FLOOR PLAN - BLDG. A - COLD & HOT WATER

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



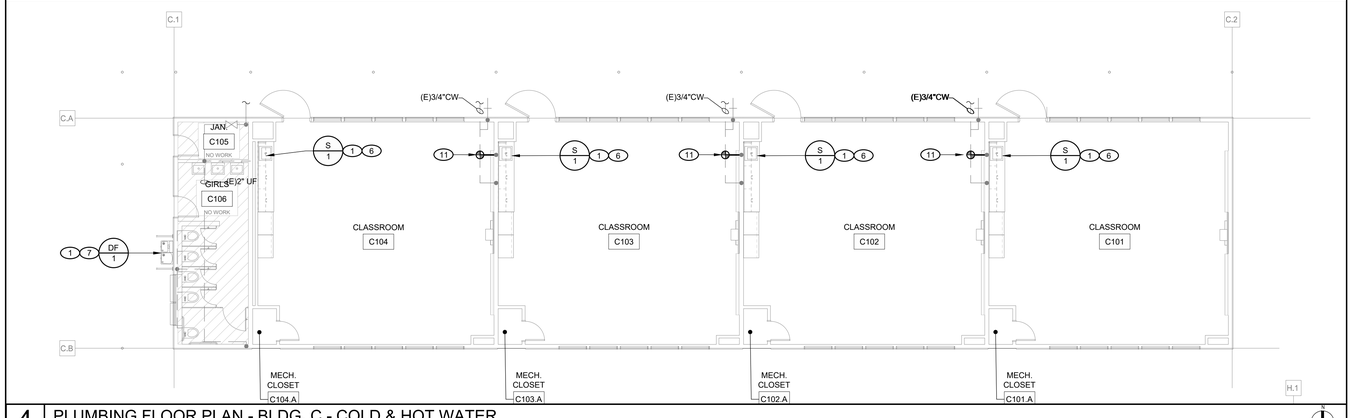
1 PLUMBING FLOOR PLAN - BLDG. D - COLD & HOT WATER

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



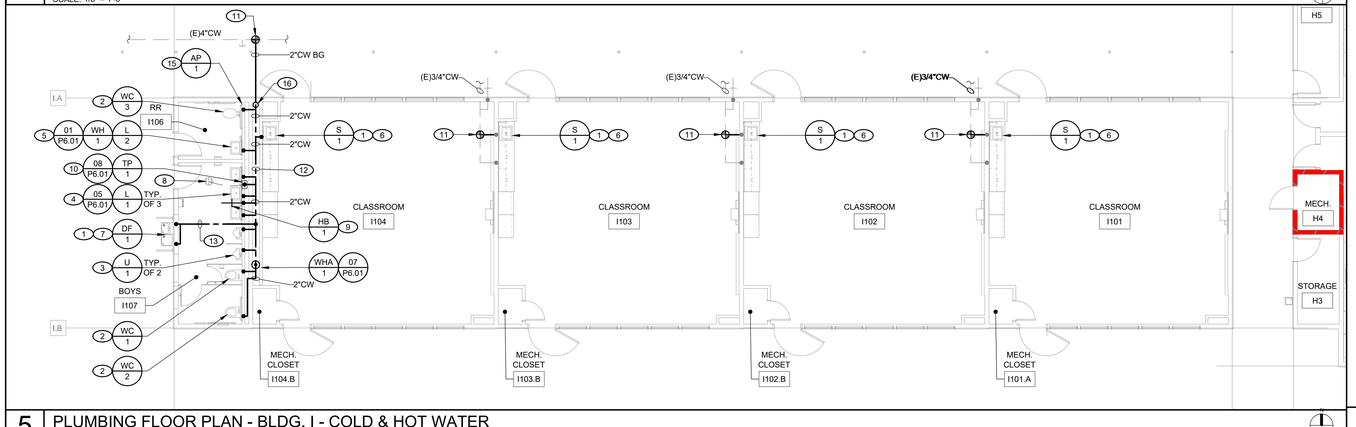
3 PLUMBING FLOOR PLAN - BLDG. B - COLD & HOT WATER

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



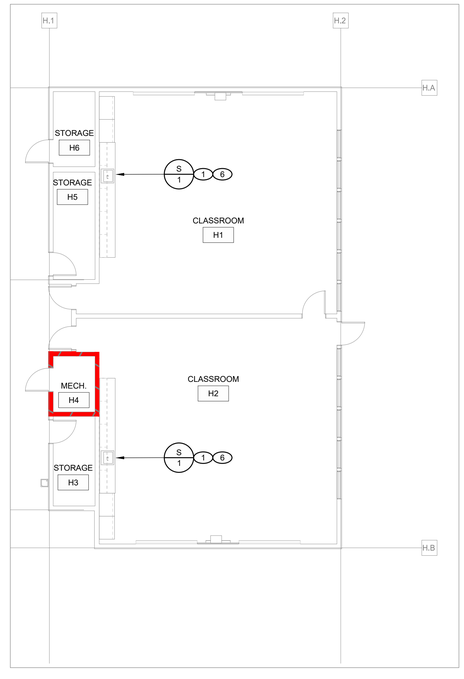
4 PLUMBING FLOOR PLAN - BLDG. C - COLD & HOT WATER

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



5 PLUMBING FLOOR PLAN - BLDG. I - COLD & HOT WATER

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



6 PLUMBING DEMOLITION PLAN - BLDG. H - WATER

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

SHEET NOTES

1. ALL WATER PIPING IS BELOW THE SLAB IN CRAWL SPACE UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR SPECIFICS.
2. REFER TO SHEET **P2.20** FOR DEMOLITION PLANS.
3. FOR WASTE PLANS REFER TO SHEET **P2.10.**
4. NOT ALL FIXTURES ARE CALLED OUT ON THIS SHEET. FIXTURE CALLOUTS CAN ALSO BE FOUND ON SHEET **P2.10.**

KEYNOTES

1. INSTALL (N) FIXTURE, ROUGH-IN AND CONNECT TO (E) PLUMBING. MODIFY PLUMBING AS REQUIRED TO ACCOMMODATE NEW FIXTURE.
2. 1-1/2" CW, 3" S. & 2" VENT TYP. FOR WATER CLOSET.
3. 3/4" CW, 2" S. WITH WCO & 1-1/2" VENT TYP. FOR URINAL.
4. 1/2" CW, 2" S. & 1-1/2" VENT TYP. FOR L-1.
5. 1/2" CW & HW, 2" S. & 1-1/2" VENT TYP. FOR L-2.
6. 1/2" CW, 2" S. & 1-1/2" VENT TYP. FOR SINKS.
7. 1/2" CW, 2" S. & 1-1/2" VENT TYP. FOR EACH SIDE OF DF-1.
8. 1/2" TRAP PRIMER CONNECTION, 2" S. & 1-1/2" VENT TYP. FOR FLOOR DRAINS.
9. 3/4" CW TO HOSE BIBB. MOUNT HOSE BIBB A MINIMUM OF 18" ABOVE FINISHED FLOOR/GRADE.
10. 1/2" CW TO TP-1. ROUTE 1/2" LINE BELOW GRADE FROM TRAP PRIMER TO FLOOR DRAIN.
11. CONNECT (N) CW TO (E) CW. FIELD VERIFY SIZE, LOCATION AND CONDITION OF (E) SEWER LINE PRIOR TO THE START OF WORK.
12. OFFSET PIPE IN WALL OR CHASE.
13. OFFSET PIPE ABOVE CEILING.
14. SEWER PIPE DROP BELOW (E) FLOOR.
15. SOV'S BEHIND WALL/ABOVE CEILING ACCESS PANEL.
16. (N) 2" CW RISER WITH SOV.
17. SEE DETAIL 6/S0.61 FOR PIPE PENETRATION AT (E) WOOD WALL.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
GARRET M. LENCIONI
NO. 33380
MECHANICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:

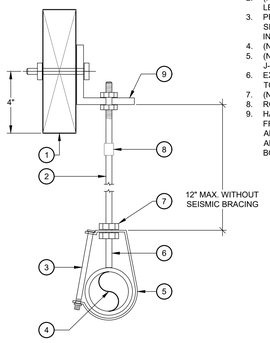
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

PLUMBING FLOOR PLANS - COLD & HOT WATER

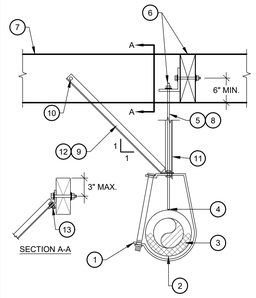
P2.20



1. BOTTOM OF STRUCTURE.
2. (N) HANGER ROD PER SCHEDULE, LENGTH AS REQUIRED.
3. PROVIDE 18" LONG CALCIUM SILICATE BLOCKS AT ALL INSULATED PIPE SUPPORTS.
4. (N) PIPE.
5. (N) UNISTRUT ADJUSTABLE J-HANGER.
6. EXTEND ROD DOWN TO TOP OF PIPE TO HOLD IN PLACE.
7. (N) NUT (TYP.)
8. ROD COUPLING.
9. HANGER ROD ATTACHMENT AT 2X FRAMING: USE 3" x 3" x 3" x 1/4" ANGLE WITH DOUBLE NUT. ATTACH ANGLE TO STRUCTURE WITH THRU BOLT AND NUT.

HANGER ROD	MAX. PIPE SIZE	BOLT AND NUT SIZE	MAX. SUPPORT SPACING
3/8"Ø	1/2"Ø	3/8"Ø	6'-0" O.C.
3/8"Ø	3/4"Ø - 1"Ø	3/8"Ø	8'-0" O.C.
3/8"Ø	1-1/4"Ø - 2"Ø	3/8"Ø	10'-0" O.C.
1/2"Ø	3"Ø - 4"Ø	1/2"Ø	10'-0" O.C.

PIPE SUPPORT & TABLE
N.T.S 10



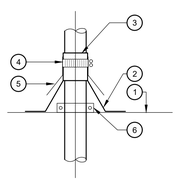
1. UNISTRUT J1200 SERIES ADJUSTABLE J-HANGER.
2. INSULATION SHIELD AT HANGER. INSULATED PIPE ONLY.
3. PROVIDE HIGH COMPRESSIVE STRENGTH INSULATION (9pcf MIN. DENSITY) UNDER INSULATIONS SHIELD.
4. EXTEND ROD DOWN TO TOP OF PIPE TO HOLD IN PLACE.
5. PROVIDE B-LINE #98B ROD STIFFENER FOR RODS OVER 1'-6" LONG.
6. HANGER ROD ATTACHMENT AT FRAMING. SEE STRUCTURAL DETAIL S/S4.7. ADJUST ROD SIZE BASED ON TABLE BELOW.
7. BEAM, SEE STRUCT. DWGS.
8. ALL THREAD ROD, SEE TABLE BELOW FOR SIZE.
9. ANGLE BRACE, SEE TABLE BELOW.
10. 1/2" THRU BOLT WITH NUT AND WASHER.
11. MAX. 8'-0" LONGITUDE ANGLE BRACE. SLOPE 1/1.
12. MAX. 8'-0" TRANS. ANGLE BRACE.
13. UNISTRUT P1546 45° 2-HOLE ANGLE WITH 5/16" THRU BOLT WITH NUT AND WASHER.

BRACING REQUIREMENTS:
A. SINGLE HANGERS 12" OR LONGER.
B. ALL GAS PIPE.
C. ALL PIPE IN MECH. ROOM THAT IS 1-1/4" OR LARGER.
D. ALL PIPES 2-1/2" OR LARGER.
E. ATTACH BRACE TO STRUCT.

SEE TABLE BELOW FOR ALL ANGLE & BOLT SIZES WITH SPACING REQUIREMENTS.

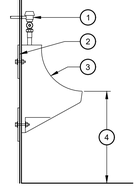
PIPE SIZE	* ANGLE BRACE	ROD SIZE	MAX. VERT. SUPPORT SPACING	MAX. TRANS./LONGITUDE SUPPORT SPACING
1/2"	2" x 2" x 16 GA	3/8"	6'	12'
3/4"	2" x 2" x 16 GA	3/8"	8'	16'
1"	2" x 2" x 16 GA	3/8"	8'	16'
1-1/4"	2" x 2" x 16 GA	3/8"	10'	20'
1-1/2"	2" x 2" x 16 GA	3/8"	10'	20'
2"	2" x 2" x 16 GA	3/8"	10'	20'
2-1/2"	2" x 2" x 16 GA	1/2"	10'	20'
3"	2" x 2" x 16 GA	1/2"	10'	20'
4"	2-1/2" x 2-1/2" x 16 GA	5/8"	10'	30'

PIPE SEISMIC BRACING
N.T.S 11



1. FINISHED ROOF.
2. SHEET METAL FLASHING.
3. SILICONE SEAL ALL AROUND.
4. SCREW BAND.
5. COUNTERFLASHING.
6. STEEL BAND PIPE CLAMP.

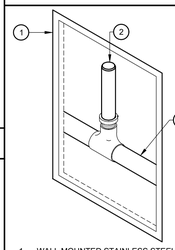
PIPE THRU ROOF DETAIL
N.T.S 12



1. FLUSH VALVE.
2. SEE DETAIL 04/P6.01 FOR MOUNTING DETAIL.
3. URINNAL.
4. SEE ARCH. DWG.

NOTE:
USE MOUNTING BOLTS THRU BACKING PLATE PROVIDED WITH URINAL.

URINAL MOUNTING
N.T.S 06



NOTES:
GROUP VALVES AND SIMILAR EQUIPMENT IN COMMON ACCESS PANELS WHEN APPLICABLE. ALL ITEMS SHALL BE FULLY OPERATIONAL AND SERVICEABLE.

FINAL SIZING AND MODEL SELECTION SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

WATER HAMMER ARRESTOR SHALL BE INSTALLED IN AN UPRIGHT POSITION.

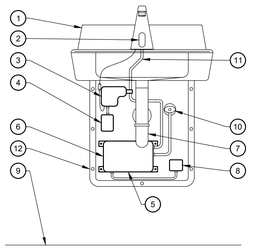
WATER HAMMER ARRESTOR SHALL BE INSTALLED AT EACH QUICK CLOSING FAUCET OR FLUSH VALVE UNLESS USED IN A BANK OF FIXTURE.

WHEN INSTALLING ON A BANK OF FIXTURES THE WATER HAMMER ARRESTOR SHALL BE INSTALLED BEFORE THE LAST FIXTURE ON THE BANK.

PIPE SIZING AND SELECTION TABLE		
PPP SIZE	FIXTURE UNITS	CROSS REF. PDI
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1-1/4"	61-113	D
1-1.2"	114-154	E
2"	155-330	F

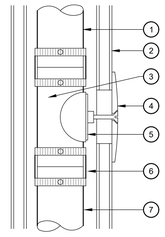
1. WALL MOUNTED STAINLESS STEEL ACCESS COVER WITH LOCK. SIZE OF ACCESS PANEL SHALL BE SUFFICIENT FOR THE REMOVAL & REPLACEMENT OF THE WATER HAMMER ARRESTOR AND ACCESSORIES BUT IN NO CASE SHALL BE SMALLER THAN 6"x8"
2. WATER HAMMER ARRESTOR CONCEALED IN THE WALL.
3. REFER TO PLANS FOR SIZE AND LOCATION OF PIPE.

WATER HAMMER ARRESTOR
N.T.S 07



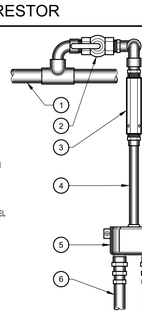
1. LAV.
2. SENOR FAUCET
3. FAUCET ELECTRONIC MODULE WITH SOLENOID
4. HARD WIRED POWER CONVERTER.
5. MIXING VALVE ASSEMBLY PROVIDED WITH WATER HEATER
6. INSTANTANEOUS WATER HEATER MTD. ON WALL BELOW LAV. OR SINK WITH: (4) 3/16" SCREWS W/ 2" MIN. PENETRATION INTO 2x BLOCKING OR STUDS.
7. P-TRAP.
8. ELECTRICAL J-BOX AND CONDUIT.
9. FINISHED FLOOR LINE.
10. COLD WATER SUPPLY WITH ESCUTCHEON AT WALL.
11. TEMPERED WATER TO FAUCET.
12. TRU-BRO LAV SHIELD, ATTACHED TO WALL WITH TAMPER RESISTANT STAINLESS STEEL SCREWS AND WALL ANCHORS PROVIDED BY MANUFACTURER.

INSTANTANEOUS WATER HEATER
N.T.S 01



1. VENT STACK.
2. FACE OF WALL.
3. SANITARY TEE.
4. CHROME PLATED COVER & VANDAL PROOF SCREW.
5. THREADED PLUG.
6. NO-HUB COUPLING WITH STAINLESS STEEL CLAMP.
7. DRAIN LINE.

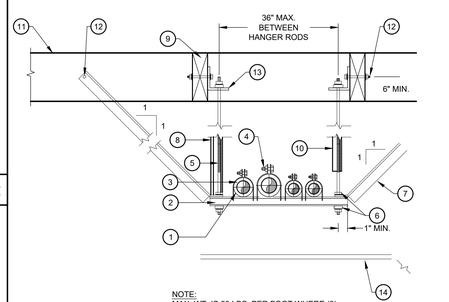
WALL CLEANOUT (WCO)
N.T.S 02



1. COLD WATER SUPPLY LINE.
2. 1/2" BALL VALVE.
3. TRAP PRIMER VALVE.
4. SUPPLY TUBE.
5. DISTRIBUTION UNIT.
6. 1/2" COPPER LINE TO FLOOR DRAIN (TYPICAL).

NOTE:
MOUNT IN 12"X16" RECESSED WALL PANEL W/ KEY LOCK COVER.

TRAP PRIMER DETAIL
N.T.S 08

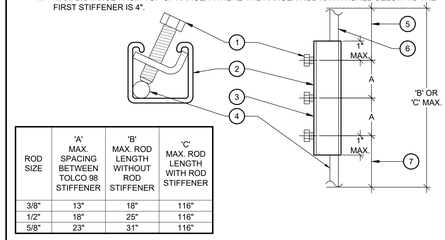


1. 4" LONG T-1000 CALSIL INSERT (TYP. FOR INSULATED PIPE)
2. 1-5/8" P-1000 UNISTRUT CHANNEL
3. INSULATION (TYPICAL)
4. UNISTRUT P-1100 SERIES PIPE CLAMP (TYP.)
5. 5/8" ALL THREAD HANGER ROD
6. DOUBLE NUT
7. TRANSVERSE ANGLE BRACE (MAX. 8'-0" LONG). SEE CHART BELOW FOR SIZE.
8. LONGITUDINAL ANGLE BRACE (MAX. 8'-0" LONG). SEE CHART BELOW FOR SIZE.
9. 4X8 BLOCKING WITH SIMPSON LUS48 HGR EACH END.
10. BRACE HANGER RODS OVER 36" LONG WITH 2"x2"x3/16" ANGLE 1" WELD AT 24" SPACING.
11. BEAM, SEE STRUCTURAL DWGS.
12. 1/2" BOLT WITH WASHER AND NUT.
13. 3" x 3" x 3" x 1/4" ANGLE WITH DOUBLE NUT.
14. FINISHED CEILING.

NOTE:
MAX. WT. IS 50 LBS. PER FOOT WHERE (3) ROOF DRAIN PIPES ARE RUN TOGETHER.

TYPICAL SEISMIC BRACING FOR PIPE					
PIPE SIZE	VERTICAL HANGER SPACING	MAX. ANGLE LENGTH	NUT & WASHER	TRANSVERSE/LONGITUDINAL ANGLE BRACE	SEISMIC SUPPORT SPACING MAX.
1/2" TO 2-1/2"	6'	6'	5/8"	2" x 2" x 1/8"	12'-0"
3", 4"	10'	8'	5/8"	2-1/2" x 2-1/2" x 3/16"	20'-0"
6"	10'	8'	5/8"	2-1/2" x 2-1/2" x 3/16"	20'-0"

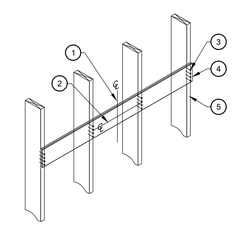
PIPE SEISMIC BRACING
N.T.S 09



ROD SIZE	'A' MAX. SPACING BETWEEN TOLCO 98 STIFFENER	'B' MAX. ROD LENGTH WITHOUT ROD STIFFENER	'C' MAX. ROD LENGTH WITH ROD STIFFENER
3/8"	13"	18"	116"
1/2"	18"	25"	116"
5/8"	23"	31"	116"

1. HANGER ROD STIFFENER ASSEMBLY, B-LINE TOLCO 98.
2. B-LINE #B22 SOLID, PUNCHED OR SLOTTED CHANNEL.
3. CHANNEL ROD STIFFENER ASSEMBLY, SEE ENLARGED DETAIL AT LEFT.
4. ALL THREADED ROD, SEE TABLE FOR ROD SIZE.
5. MAX. DISTANCE FROM TOP OF HANGER ROD TO FIRST ROD STIFFENER IS 4".
6. SEE DETAIL 09 & 11/P6.01 FOR ATTACHMENT ABOVE, TYP.
7. MAX. DISTANCE FROM TOP OF HANGER WHERE THE HANGER ROD IS ATTACHED BELOW TO THE FIRST STIFFENER IS 4".

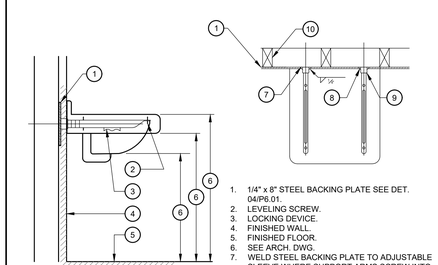
ROD STIFFENER
N.T.S 03



1. CENTERLINE OF FIXTURE.
2. CENTERLINE OF FIXTURE SUPPORT HANGER.
3. 3/16"ø FLAT HEAD WOOD SCREW W/ MIN. 2" PENETRATION. (4) PER STUD, TYPICAL
4. 1/4" x 8" STEEL PLATE FOR FIXTURE WALL BACKING PLATE. (2) REQUIRED FOR MOUNTING URINAL.
5. 2x WOOD STUDS.

NOTES:
A. FOR SINGLE FIXTURE, PLATE SHALL BE ANCHORED TO A MINIMUM OF (4) VERTICAL STUDS.
B. FOR CONDITIONS AT BATTERY OF FIXTURES, MOUNT ON A CONTINUOUS STEEL PLATE. EXTEND PLATE (2) STUDS BEYOND CENTER OF END FIXTURE.
C. NOTCH STUDS 1/4" AT NON-STRUCTURAL FURRED WALLS. MOUNT PLATE TO FACE OF STUDS AND MODIFY FINISH MATERIAL FOR FLUSH FINISH AT OTHER LOCATIONS.

FIXTURE SUPPORT BACKING PLATE
N.T.S 04



1. 1/4" x 8" STEEL BACKING PLATE SEE DET. 04/P6.01.
2. LEVELING SCREW.
3. LOCKING DEVICE.
4. FINISHED WALL.
5. FINISHED FLOOR.
6. SEE ARCH. DWG.
7. WELD STEEL BACKING PLATE TO ADJUSTABLE SLEEVE WHERE SUPPORT ARMS SCREW INTO.
8. ADJUSTABLE SLEEVE.
9. LOCK NUT.
10. WOOD STUD.

LAVATORY SUPPORT
N.T.S 05

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

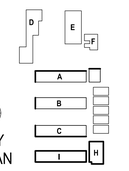
CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT



REGISTERED PROFESSIONAL ENGINEER
GREEN M. LENDORF
NO. 33380
10th 8/26
MECHANICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

PLUMBING DETAILS

P6.01

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: Davis ES Modernization	Report Page:	(Page 1 of 6)
Project Address: 5224 East Morada Lane	Date Prepared:	4/23/2025

This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating systems using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	Lodi	02	Climate Zone	12
03	Occupancy Types Within Project (select all that apply)::				

● All Other Occupancies

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03
My project consists of (check all that apply):	System Type[1,2]	System Components
☒ New system (DHW system being installed for the first time)	Individual System (serving nonresidential spaces)	☒ Equipment ☒ Distribution ☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment ☐ Distribution ☐ Controls

[1]FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
[2] Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.
[3] DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance

01	02	03	04
Domestic Hot Water Equipment:	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: Davis ES Modernization	Report Page:	(Page 2 of 6)
	Date Prepared:	4/23/2025

E. ADDITIONAL REMARKS

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

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03	04				05		06		
System Name	Chronomite CM-15L	Exception to 140.5(c)/ 170.2(d)3			☐	Gas Service Water Heating System >= 1MMBtu/h[4]	Capacity-weighted Average Efficiency %		
07	08	09	10		11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
Chronomite CM-15L	Consumer Rated Electric Instantaneous (<=12kW)	0	10,645	FHR >=75	0.95	0.91	UEF		

[4]FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 50% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☒	☐	☐	Isolation valves for instantaneous water heater with input rating >6.8 KBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: Davis ES Modernization	Report Page:	(Page 3 of 6)
	Date Prepared:	4/23/2025

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 119.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating materal to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, Including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: Davis ES Modernization	Report Page:	(Page 4 of 6)
	Date Prepared:	4/23/2025

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specifed in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).o> all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity (if gtr/) 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: Davis ES Modernization	Report Page:	(Page 5 of 6)
	Date Prepared:	4/23/2025

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: Davis ES Modernization	Report Page:	(Page 6 of 6)
Project Address: 5224 East Morada Lane	Date Prepared:	4/23/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Faisal Maseed	Documentation Author Signature: Faisal Maseed
Company: Leaf Engineers	Signature Date: 2025-04-23
Address: 1110 Iron Point Rd Ste 200	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Folsom CA 95630	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: Garen Lencioni	Responsible Designer Signature: Garen Lencioni
Company: LEAF Engineers	Date Signed: 2025-04-23
Address: 1110 Iron Point Rd. Ste 200	License: M33380
City/State/Zip: Folsom CA 95630	Phone:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

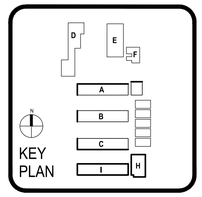
PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

PLUMBING ENERGY COMPLIANCE DOCUMENTATION

This document is for plan review only

P7.01

ELECTRICAL NOTES

EQUIPMENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTES

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 CHAPTER 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 ELECTRIC, 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:

1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND 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 ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO START OF AND DURING THE HANGING AND BRACING OF DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐MD☐PP☐E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐MD☐PP☐E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #).

LIST OF APPLICABLE CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1

2022 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, VOLUME 1 & 2

2022 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3

2022 CALIFORNIA ENERGY CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6

2022 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 9

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11

2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
WITH CA AMENDMENTS

DEVICE LOCATION NOTE

THE LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATIONS. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN, UNLESS OTHERWISE NOTED. ELECTRICAL DEVICES SHALL BE MOUNTED PER "ACCESSIBLE DEVICE MOUNTING HEIGHT" DETAIL.

COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.

UL LISTINGS NOTE

ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY.

ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.

STRUCTURAL NOTE

UNLESS SPECIFICALLY SHOWN ON THESE PLANS. STRUCTURAL MEMBERS SHALL NOT BE CUT, DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

DIAGRAMMATIC NOTE

DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE DETAILED CONDUIT ROUTING OR LENGTHS REQUIRED FOR COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS, CONTRACT DOCUMENTS AND SPECS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS ANY ELECTRICAL ARCHITECTURAL, STRUCTURAL AND/OR MECHANICAL ITEMS OR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR DIMENSIONS.

FIRE ALARM NOTE

NO NEW FIRE ALARM WORK IS REQUIRED FOR THIS SCOPE OF WORK IN ACCORDANCE WITH NFPA 72, CHAPTER 1.4 RETROACTIVITY.
ALL EXISTING FIRE ALARM DEVICES IN THE SCOPE OF WORK ARE TO BE REMOVED, STOWED AND REINSTALLED IN ACCORDANCE WITH CFC AND DSA IR A-21 §4.2 & 4.3.

TITLE 24 NOTES

THE FOLLOWING SHALL BE REQUIRED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED IN DRAWINGS AND/OR SPECIFICATIONS:

ELECTRICAL POWER DISTRIBUTION

A. SERVICE ELECTRICAL METERING
- FOR NEWLY INSTALLED ELECTRICAL SERVICE IN NEWLY CONSTRUCTED BUILDINGS, SERVICE ELECTRICAL METERING IS REQUIRED ACCORDING TO SECTION 130.5(A).
- FOR NEW OR REPLACEMENT ELECTRICAL SERVICE EQUIPMENT IN EXISTING BUILDINGS, SERVICE ELECTRICAL BUILDINGS, SERVICE ELECTRICAL METERING IS REQUIRED ACCORDING TO SECTION 141.0(B)2PI.

B. SEPARATION OF ELECTRICAL CIRCUITS FOR ELECTRICAL ENERGY MONITORING
ELECTRICAL POWER DISTRIBUTION SYSTEMS SHALL BE DESIGNED SO THAT MEASUREMENT DEVICES CAN MONITOR THE ELECTRICAL ENERGY USAGE OF LOAD TYPES ACCORDING TO TABLE 130.5-B.

C. VOLTAGE DROP
THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.

CONTROLS FOR OUTDOOR LIGHTING
OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS, AND THE CONTROLS FOR OUTDOOR LIGHTING SHALL MEET THE FOLLOWING FUNCTIONAL REQUIREMENTS:

A. DAYLIGHT AVAILABILITY
ALL INSTALLED OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTO CONTROL, ASTRONOMICAL TIME-SWITCH CONTROL, OR OTHER CONTROL CAPABLE OF AUTOMATICALLY SHUTTING OFF THE OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE.

B. AUTOMATIC SCHEDULING CONTROLS
1. AUTOMATIC SCHEDULING CONTROLS SHALL BE CAPABLE OF REDUCING THE OUTDOOR LIGHTING POWER BY AT LEAST 50 PERCENT AND NO MORE THAN 90 PERCENT, AND SEPARATELY CAPABLE OF TURNING THE LIGHTING OFF, DURING SCHEDULED UNOCCUPIED PERIODS.
2. AUTOMATIC SCHEDULING CONTROLS SHALL ALLOW SCHEDULING OF A MINIMUM OF TWO NIGHTTIME PERIODS WITH INDEPENDENT LIGHTING LEVELS, AND MAY INCLUDE AN OVERRIDE FUNCTION THAT TURNS LIGHTING ON DURING ITS SCHEDULED DIM OR OFF STATE FOR NO MORE THAN TWO HOURS WHEN AN OVERRIDE IS INITIATED.
3. AUTOMATIC SCHEDULING CONTROLS SHALL BE INSTALLED FOR ALL OUTDOOR LIGHTING, AND MAY BE INSTALLED IN COMBINATION WITH MOTION SENSING CONTROLS OR OTHER OUTDOOR LIGHTING CONTROLS.

C. MOTION SENSING CONTROLS
1. MOTION SENSING CONTROLS SHALL BE CAPABLE OF REDUCING THE OUTDOOR LIGHTING POWER OF EACH CONTROLLED LUMINAIRE BY AT LEAST 50 PERCENT AND NO MORE THAN 90 PERCENT, AND SEPARATELY CAPABLE OF TURNING THE LUMINAIRE OFF, DURING UNOCCUPIED PERIODS.
2. MOTION SENSING CONTROLS SHALL BE CAPABLE OF REDUCING THE LIGHTING TO ITS DIM OR OFF STATE NO LONGER THAN 15 MINUTES AFTER THE AREA HAS BEEN VACATED, AND OF RETURNING THE LIGHTING TO ITS ON STATE WHEN THE AREA BECOMES OCCUPIED.
3. NO MORE THAN 1,500 WATTS OF LIGHTING POWER SHALL BE CONTROLLED BY A SINGLE SENSOR.
4. MOTION SENSING CONTROLS SHALL BE INSTALLED FOR THE FOLLOWING LUMINAIRES, AND MAY BE INSTALLED FOR OTHER OUTDOOR LIGHTING AND IN COMBINATION WITH OTHER OUTDOOR LIGHTING CONTROLS:
   a. OUTDOOR LUMINAIRES OTHER THAN BUILDING FAÇADE, ORNAMENTAL HARDSCAPE, OUTDOOR DINING, OR OUTDOOR SALES FRONTAGE LIGHTING, WHERE THE BOTTOM OF LUMINAIRE IS MOUNTED 24 FEET OR LESS ABOVE GRADE; AND,
   b. OUTDOOR WALL MOUNTED LUMINAIRES INSTALLED FOR BUILDING FAÇADE, ORNAMENTAL HARDSCAPE OR OUTDOOR DINING LIGHTING THAT HAVE A BILATERALLY SYMMETRIC DISTRIBUTION AS DESCRIBED IN THE IES HANDBOOK (TYPICALLY REFERRED TO AS "WALL PACKS") MOUNTED 24 FEET ABOVE GRADE OR LOWER.

EXCEPTION 1 TO SECTION 130.2(c)3: LUMINAIRES WITH A MAXIMUM RATED WATTAGE OF 40 WATTS EACH ARE NOT REQUIRED TO HAVE MOTION SENSING CONTROLS.

GENERAL NOTES

1. UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS, OR AS DIRECTED BY ARCHITECT.
2. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST. OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE.
3. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT.
4. CIRCUITING
   A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL, NOT METHODS OF INSTALLATION. REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS, INCLUDING WHETHER OR NOT BX IS ALLOWED AND WHETHER "THROUGH-FIXTURE" OR "OCTOPUS (EMT WITH FLEXIBLE WHIPS)" TYPE LIGHTING BRANCH CIRCUITING IS REQUIRED.
   B. WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANEL SCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED.
   C. BRANCH CIRCUITS ON THE DRAWINGS ARE GENERALLY NOT SHOWN GROUPED IN SINGLE RACEWAYS. HOWEVER, GROUPING IS ALLOWED UNDER CERTAIN CONDITIONS. REFER TO DIVISION 26 SPECIFICATIONS UNDER SECTION ENTITLED "ELECTRICAL WIRING" FOR REQUIREMENTS.
   D. THE DRAWINGS GENERALLY INDICATE QUANTITY OF CONDUCTORS ON BRANCH CIRCUIT HOME RUNS ONLY. ELSEWHERE WITHIN CIRCUITS, PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMPLISH CIRCUITING AND SWITCHING REQUIREMENTS SHOWN.
5. WHEN REMOVING EXISTING ELECTRICAL WORK WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY.
6. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER.
7. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO, ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
8. CONTRACTOR SHALL FIELD VERIFY EXISTING BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT.
9. CONTRACTOR TO REFER TO ARCHITECTURAL PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF SCOPE OF PROJECT PRIOR TO COMMENCEMENT OF WORK.
10. LUMINAIRE SUPPORT IN SUSPENDED CEILINGS:
    A. PROVIDE MEANS OF SUPPORT FOR LUMINAIRES PER NEC 410-16. T BAR CLIPS SHALL BE INSTALLED ON THE LUMINAIRE AND SHALL BE FIELD SECURED TO THE INVERTED CEILING TEES SO THAT THE LUMINAIRE IS SECURELY FASTENED TO THE CEILING SYSTEM FRAMING MEMBERS.
    B. CEILING TILES SHALL NOT BEAR THE WEIGHT OF LUMINAIRES. SURFACE MOUNT LUMINAIRES, RECESSED DOWNLIGHTS, LIGHT TRACK, EXIT SIGN, ETC. SHALL BE SUPPORTED BY PROPER FRAMES OR OTHER ATTACHMENT TO MAIN CEILING SYSTEM GRID OR BUILDING STRUCTURE ABOVE CEILING.
    C. LUMINAIRES SHALL BE CENTERED IN CEILING TILE.
    D. LUMINAIRE SHALL HAVE FLANGE OR TRIM RING FOR CLOSURE OF CEILING CUTOUT OR OPENING.
    E. FIRE-RATED CEILING ASSEMBLY: FOR LUMINAIRES TO BE FLUSH-MOUNTED INTO A FIRE-RATED CEILING OR SURFACE MOUNTED TO A FIRE-RAGED CEILING, INSTALL WITH INDEPENDENT, SECURE SUPPORT. RACEWAY, CABLE ASSEMBLIES, BOXES AND FITTINGS LOCATED ABOVE A FIRE-RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLY SHALL NOT BE SECURED TO, OR SUPPORTED BY, THE CEILING ASSEMBLY INCLUDING THE CEILING SUPPORT WIRES. PROVIDE AN INDEPENDENT MEANS OF SECURE SUPPORT. INDEPENDENT SUPPORT WIRES SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFECTIVE MEANS FROM THOSE THAT ARE PART OF THE FIRE-RATED DESIGN.
11. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING UNDERGROUND PIPING, WIRING OR OTHER FACILITIES PRIOR TO TRENCHING, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY INSTALLATION OF NEW WORK.
12. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, CEC, ALL STATE AND LOCAL CODES AND AMENDMENT.

ELECTRICAL SYMBOL LEGEND

REMODEL

(E) — EQUIPMENT WITH "E" ADJACENT IS EXISTING TO REMAIN.

(R) — EXISTING EQUIPMENT WITH "R" ADJACENT IS TO BE COMPLETELY DISCONNECTED AND REMOVED.

(RR) — EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.

(ER) — EQUIPMENT WITH "ER" ADJACENT IS RELOCATED EQUIPMENT SHOWN IN NEW LOCATION.

NO TAG INDICATES NEW EQUIPMENT.

(E) PNL-CKT — CIRCUIT DESIGNATION WITH PREFIX "(E)" DENOTES EXISTING CIRCUIT AND EQUIPMENT IS TO REMAIN.

DIAGRAM

BREAKER, LOW VOLTAGE

FUSE

DISTRIBUTION TRANSFORMER

CPT — CONTROL POWER TRANSFORMER

DRAW-OUT TYPE EQUIPMENT

MEDIUM VOLTAGE VACUUM CIRCUIT BREAKER

SWITCH, POWER

M — METER

BATTERY BANK

CURRENT TRANSFORMER

EQUIPMENT

+42" — A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE

MOTOR

DISCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES AS INDICATED, "NF" INDICATES NON-FUSIBLE. NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED. PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED ON BUSWAY. ALL DISCONNECT SWITCHES SHALL BE 30/NF/3 UNLESS OTHERWISE NOTED

SINGLE CIRCUIT BREAKER IN INDIVIDUAL ENCLOSURE

MAGNETIC MOTOR CONTROLLER. NUMBER INDICATES NEMA SIZE. STARTER NEMA SIZE SHALL BE "NEMA 1" UNLESS OTHERWISE NOTED

COMBINATION DISCONNECT SWITCH / MOTOR CONTROLLER

CONTACTOR

PANELBOARD

SWITCHBOARD / DP

T — TRANSFORMER

GROUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN NEC ARTICLE 250

BELL. "WP" INDICATED OUTDOOR RATED

MOTOR RATED TOGGLE SWITCH

TAMPER RESISTANT RECEPTACLES

PROVIDE TAMPER RESISTANT RECEPTACLES THROUGHOUT PROJECT PER CEC SECTION 406.12 (4)

LEGEND NOTES

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. DASHED ELECTRICAL EQUIPMENT GENERALLY INDICATES EXISTING EQUIPMENT.
3. LONG-SHORT-SHORT-LONG DASHING GENERALLY INDICATES MATCH LINE OR DEFINES AREA FOR SPECIAL NOTE.

CIRCUIT RELATED

LIGHTING OR POWER CIRCUIT(S). ARROW INDICATES HOME RUN, LONGER TICK(S) INDICATE NEUTRAL WIRE(S), SHORTER STRAIGHT TICK(S) INDICATE PHASE WIRE(S), SLANTED SHORTER TICK(S) INDICATE SWITCH LEG(S), DOT(S) INDICATE GROUNDING CONDUCTOR(S), DASHED WIRING (LONG-SHORT-LONG DASHES) INDICATES WIRING BELOW SLAB OR GRADE, DASHED WIRING (SERIES OF SHORT DASHES) INDICATES EXISTING WIRING, SLASH THROUGH ARROW INDICATES PARTIAL CIRCUIT, "D" ON HOMERUN ARROW INDICATES DEDICATED CIRCUIT. PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR FOR ENTIRE LENGTH OF CIRCUIT FROM PANEL TO OUTLET; COUNT EACH NEUTRAL AS CURRENT-CARRYING AND GROUP A MAXIMUM OF SIX THHN/THWN CONDUCTORS IN A SINGLE RACEWAY; GROUNDING CONDUCTOR IS NOT COUNTED.

NOTE: HOMERUN INDICATES INSTALLATION OF NEW WIRE AND CONDUIT (#12 WIRE, 3/4"C, UNLESS OTHERWISE NOTED) FROM SOURCE PANELBOARD TO LOAD. HOMERUN INDICATES CONNECTION OF NEW LOADS TO EXISTING CIRCUITS IN LIEU OF PANELBOARD WHERE NOTED ON PLANS.

J — JUNCTION BOX

GROUNDING FIXTURE

LIGHTING FIXTURES

LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, CROSS HATCHING INDICATES FIXTURE ON EMERGENCY SYSTEM, FOR SOLID CIRCLE WITHIN FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL

STRIP TYPE LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE ATTACHED TO FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL

LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL

DESIGNATES FIXTURE ON EMERGENCY POWER. RE: LIGHTING PLAN NOTES AND FIXTURE SCHEDULE NOTES FOR ADDITIONAL INFORMATION

WALL OR BRACKET MOUNTED FIXTURE OR DEVICE

EXIT LIGHT FIXTURE. LETTER INDICATES TYPE, NUMBER INDICATES CIRCUIT, NUMBER AND LOCATION OF SHADED TRIANGLE SECTIONS INDICATE NUMBER OF EXIT SIGN FACES AND DIRECTION OF EACH FACE. PROVIDE CHEVRON DIRECTIONAL INDICATORS AS SHOWN ON DRAWINGS

OUTDOOR ARM MOUNT AREA FIXTURE. LETTER INDICATES TYPE. SINGLE OR DOUBLE ARM AS INDICATED.

OUTDOOR PEDESTRIAN STYLE POST TOP AREA FIXTURE. LETTER INDICATES TYPE

OUTDOOR PARKING LOT AREA FIXTURE. LETTER INDICATES TYPE. SINGLE OR DOUBLE ARM AS INDICATED.

SPORTS LIGHTING FIXTURE.

LIGHTING CONTROLS

SWITCH. SMALL LETTER INDICATES FIXTURES CONTROLLED, "P" INDICATES PILOT LIGHT, "WP" INDICATES WEATHERPROOF, "K" INDICATES KEY POERATED, "MO" INDICATES SPDT MOMENTARY CONTACT, "2" INDICATES DPDT, "3" INDICATES 3-WAY, "4" INDICATES 4-WAY, "M" INDICATES MANUAL MOTOR STARTER, CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER

D — WALL BOX DIMMER SWITCH. "MARK" INDICATES WATTAGE IF OTHER THAN 600, "3D" INDICATES 3-WAY DIMMER

MULTI-LEVEL SWITCH. CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER

T — DIGITAL TIME SWITCH

PC — PHOTOELECTRIC CONTROL

EMERGENCY POWER OFF (EPO)

PUSHBUTTON

F — CEILING FAN SWITCH

OC — PUSH BUTTON WALL MOUNT OCCUPANCY SENSOR

DCD — WALL MOUNT OCCUPANCY SENSOR WITH DIMMING CONTROLS DUAL TECHNOLOGY

CEILING MOUNTED OCCUPANCY SENSOR

CEILING MOUNTED RESTROOM OCCUPANCY SENSOR

CEILING MOUNTED CORRIDOR OCCUPANCY SENSOR

HC — CEILING MOUNTED HIGH CEILING OCCUPANCY SENSOR

POWER OUTLETS

20A-125V DUPLEX RECEPTACLE

20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "WP" INDICATES WEATHER PROOF DEVICE

20A-125V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP. REFER TO ARCHITECT FOR EXACT HEIGHT ABOVE COUNTER

20A-125V CONTROLLED DUPLEX RECEPTACLE

20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE

CD — 20A-125V DUPLEX TAMPER RESISTANT RECEPTACLE WITH (2) USB CHARGING PORTS

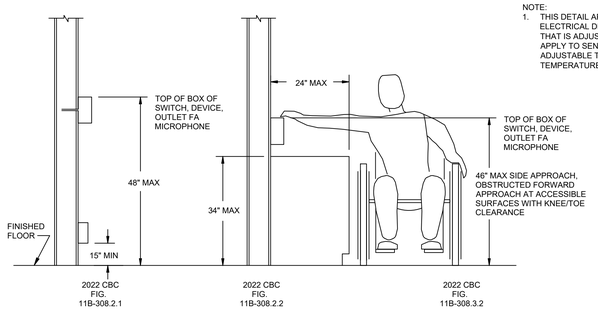
20A-125V FOURPLEX RECEPTACLE. SAME SYMBOLOGY AS DUPLEX RECEPTACLE

SPECIAL PURPOSE SINGLE POWER RECEPTACLE. RATED AS INDICATED (IF NO RATING INDICATED, RECEPTACLE RATING SHALL MATCH BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND SHALL MEET REQUIREMENTS OF EQUIPMENT BEING CONNECTED), "C" INDICATES CLOCK OUTLET

20A-125V FLUSH FLOOR DUPLEX RECEPTACLE. 20A WHEN INDICATED OR IF BRANCH CIRCUIT SERVES ONLY SINGLE DUPLEX. PROVIDE CARPED FLANGE WHERE APPLICABLE

LC1-X — CIRCUIT DESIGNATION NEXT TO RECEPTACLE DEVICES INDICATES BRANCH CIRCUIT NUMBER. SEE PANEL SCHEDULES FOR INFORMATION.

MOUNTING OVER OBSTRUCTION DETAIL



NOTE:
1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).

SHEET INDEX

E0.01	ELECTRICAL SHEET INDEX, LEGEND & NOTES
E0.02	PHOTOVOLTAIC GENERAL NOTES
E0.03	TITLE 24 - SITE LIGHTING
ED1.01	ELECTRICAL DEMOLITION SITE PLAN
E1.01	ELECTRICAL SITE PLAN
ED2.01	ELECTRICAL DEMOLITION FLOOR PLANS
E2.01	ELECTRICAL FLOOR PLAN
E6.01	ELECTRICAL ONE LINE
E6.02	ELECTRICAL ONE LINE
E6.03	ELECTRICAL SCHEDULES
E6.04	ELECTRICAL DETAILS
E6.05	PHOTOVOLTAIC DETAILS
E6.06	PHOTOVOLTAIC CUT SHEETS

ELECTRICAL ABBREVIATIONS

(D) OR (R)	DEMOLISH/REMOVE	HV	HIGH VOLTAGE
(E)	EXISTING	HZ	HERTZ
(ER)	EXISTING RELOCATED	IG	ISOLATED GROUND
(F)	FUTURE	JB	JUNCTION BOX
(N)	NEW		
(RR)	REMOVE AND RELOCATE	KAIC	KILO-AMPS INTERRUPTING CAPACITY
A	AMPERES	KCMIL	THOUSAND CIRCULAR MILS
AC	ALTERNATING CURRENT	KV	KILOVOLT
AF	AMP-FRAME	KVA	KILOVOLT AMPERES
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AFG	ABOVE FINISHED GRADE	KWH	KILOWATT-HOUR
AHU	AIR HANDLING UNIT		
AIC	AMPS INTERRUPTING CAPACITY	M	METER
AT	AMP-TRIP	MAX	MAXIMUM
ATS	AUTOMATIC TRANSFER SWITCH	MCB	MAIN CIRCUIT BREAKER
AL	ALUMINUM	MCC	MOTOR CONTROL CENTER
AWG	AMERICAN WIRE GUAGE	MFR	MANUFACTURER
		MH	METAL HALIDE
BAT	BATTERY	MLO	MAIN LUGS ONLY
BCW	BARE COPPER WIRE	MIN	MINIMUM
BFG	BELOW FINISH GRADE	MV	MEDIUM VOLTAGE
BLDG	BUILDING		
		NEC	NATIONAL ELECTRICAL CODE
C	CONDUIT	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NTS	NOT TO SCALE
CEC	CALIFORNIA ELECTRICAL CODE		
CO	CONDUIT ONLY	PC	PHOTOCELL
CPT	CONTROL POWER TRANSFORMER	PH	PHASE
CT	CURRENT TRANSFORMER	PT	POTENTIAL TRANSFORMER
CU	COPPER	PV	PHOTOVOLTAIC
DC	DIRECT CURRENT	QTY	QUANTITY
EF	EXHAUST FAN	SCA	SHORT CIRCUIT AVAILABLE
EGU	ENGINE GENERATOR UNIT	SWGR	SWITCHGEAR
EM	EMERGENCY	SWBD	SWITCHBOARD
EMT	ELEC

PV GENERAL NOTES

A. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE PHOTOVOLTAIC INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END, CONTRACTOR SHALL FURNISH ALL LABOR AND TOOLS NECESSARY, FURNISH AND INSTALL ALL APPARATUS, MATERIALS, AND EQUIPMENT IN A MANNER COMPLYING WITH ALL APPLICABLE CODES, MANUFACTURERS SPECIFICATIONS AND INSTALLATION GUIDE, INCLUDING ITEMS REQUIRED BUT NOT NECESSARILY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS, AND HARDWARE.

B. ALL CONDUCTORS SHALL BE COPPER, TYPE "THWN/THNN" OR "PV WIRE" 90 DEGREE INSULATION. ALL LUGS SHALL BE 75 DEGREE MINIMUM. ALL CONDUIT SHALL BE EMT OR RIGID STEEL. USE OF FLEX IS NOT ALLOWED EXCEPT UP TO 6 FOOT FOR FINAL CONNECTION TO LIGHTING FIXTURES, OR VIBRATING EQUIPMENT, OR SEISMIC APPLICATIONS.

C. BEFORE SUBMITTING THE BID PROPOSAL, CONTRACTOR SHALL VISIT THE JOB SITE TO FULLY FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS, REQUIREMENTS, INCLUDING ALL NECESSARY ADDITIONAL SCOPE OF WORK, WHETHER SHOWN ON DRAWING(S) OR NOT, BUT REQUIRED FOR PROVIDING A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM.

D. PROVIDE PULL ROPE IN ALL EMPTY CONDUITS.

E. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATION OF OUTLETS AND EQUIPMENT THOUGH NOT NECESSARILY INDICATING THE ACTUAL ROUTES OF CONDUITS, THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE WORK OF OTHER TRADES AND SPACE WILL SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE FOR VISUAL AND STRUCTURAL REASONS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, BENDS, PULL BOXES AND OBSTRUCTIONS. THE DRAWINGS ARE NOT INTENDED TO BE SCALED AND THE CONTRACTOR SHALL REFER TO THE GENERAL CONSTRUCTION DRAWINGS FOR DIMENSIONS. COORDINATE ROUTING OF RACEWAYS FEEDERS AND HOMERUNS IN COOPERATION WITH THE WORK OF OTHER TRADES.

F. ALL PERMITS SHALL BE PROCURED FROM ALL LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTION AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH, COMPLY WITH CODES. PRESENT THE SIGNED CERTIFICATE OF FINAL INSPECTION TO THE OWNER'S REPRESENTATIVE PRIOR TO PRESENTING THE WORK FOR FINAL ACCEPTANCE.

G. CONTRACTOR SHALL ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES ABOUT THE BUILDING.

H. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL SERVICE FOR CONSTRUCTION POWER AND ILLUMINATION FOR ALL TRADES. ALL COSTS OF LABOR AND COST MATERIAL REQUIRED FOR THE TEMPORARY ELECTRICAL SERVICE SHALL BE INCLUDED IN THE ELECTRICAL CONTRACT.

I. ELECTRICAL ROOMS HAVING A TRANSFORMER(S) RATED 112.5KVA OR ABOVE SHALL BE PROVIDED WITH 1-HOUR FIRE-RATED ENCLOSURE.

J. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS, ACCEPTABLE MATERIALS, COORDINATION REQUIREMENTS, TESTING, STARTUP, TRAINING AND PROJECT CLOSEOUT.

K. PROVIDE A CODE APPROVED PV SYSTEM FUSED AC DISCONNECT SWITCH WITHING 10 FEET OF THE MAIN SWITHBOARD.

L. CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY, GROUNDS, SHORT CIRCUITS, AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR FIXTURES ARE CONNECTED THERETO. CABLES SHALL BE CHECKED FOR CONTINUITY, SHORTS, INSULATION RESISTANCE, AND PROPER PHASING.

M. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING AND POWER CONDUITS.

N. EXPOSED RACEWAYS ON ROOF SHALL BE AMBIENT TEMPERATURE COMPENSATED PER NEC TABLE 310-15(B)(2)(C) BASED UPON DISTANCE RACEWAY IS MOUNTED ABOVE ROOF AND DESIGN TEMPERATURE OF ROOF.

O. NO INTERMEDIATE SPLICING OF FEEDERS OR BRANCH CIRCUITS SHALL BE DONE WITHOUT PRIOR APPROVAL FROM CITY.

P. NO MORE THAN THREE CIRCUITS PER HOME RUN. DO NOT COMBINE HOMERUNS WITHOUT PRIOR APPROVAL FROM CITY.

Q. ALL MATERIALS INSTALLED ON THIS PROJECT INSTALLED AT EXTERIOR LOCATIONS SHALL WITH STAND CORROSION.

R. SLEEVE ALL NEW CONDUITS UNDER HARD SURFACES.

S. TRENCH BACKFILL SHALL BE (TWO-SACK-SLURRY) FOR ROADWAY LOCATIONS.

S. RELOCATE & REPAIR IRRIGATION AS NEEDED FOR INSTALLATION OF (N) PV SOLAR EQUIPMENT.

T. ALL UNISTRUT CHANNELS AND ASSOCIATED HARDWARE INSTALLED AT EXTERIOR LOCATIONS SHALL BE UNISTRUT DEFENDER SERIES (OR EQUAL) CHANNELS AND HARDWARE (AT MINIMUM), UNLESS STAINLESS STEEL UNISTRUT CHANNELS AND / OR HARDWARE ARE REQUIRED.

U. POWER:

1. PROVIDE CONCRETE PADS (MINIMUM 4" HIGH OR AS INDICATED) FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT INSTALLED IN EQUIPMENT ROOMS AND IN AREAS SUSCEPTIBLE TO BEING WET OR HOSED DOWN. SUBMIT PAD DETAIL PLANS INCLUDING DIMENSIONS FOR APPROVAL.
2. THE LOCATION OF ALL OUTLETS SHALL BE COORDINATED WITH ARCHITECTURAL PLANS BY THE CONTRACTOR PRIOR TO INSTALLATION. MOUNTING HEIGHTS OF RECEPTACLES, SWITCHES, WIRING DEVICES AND DEDICATED EQUIPMENT OUTLETS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
3. ALL DISCONNECT SWITCHES SHALL BE PAD-LOCKABLE IN THE "OFF" POSITION.
4. ALL FEEDER LENGTH SHOWN ON SINGLE LINE DIAGRAM ARE FOR VOLTAGE DROP CALCULATION ONLY. DO NOT USE FOR ANY OTHER PURPOSES.
5. VERIFY AND COORDINATE EXACT LOCATION, POWER REQUIREMENTS AND METHOD OF CONNECTION OF ALL MECHANICAL EQUIPMENT AND PERTINENT ITEMS AND DEVICES PRIOR TO INSTALLATION OF ELECTRICAL SYSTEM.
6. PROVIDE A MINIMUM OF 12" SEPARATION BETWEEN POWER AND COMMUNICATION CONDUITS, WHERE THEY ARE INSTALLED IN PARALLEL OR IN THE SAME TRENCH.
7. LABEL ALL RECEPTACLES, J-BOXES, DISCONNECT SWITCHES AND CONTROL DEVICES WITH THEIR SERVING CIRCUIT NUMBERS. LABELS SHALL BE PER THE SPECIFICATION.
8. PROVIDE A MINIMUM 24" HORIZONTAL SEPARATION THAT USUALLY APPLIES BETWEEN BOXES INSTALLED ON OPPOSITE SIDES OF THE WALL IN ORDER TO MAINTAIN THE FIRE-RESISTIVE RATING OF ASSEMBLIES WHERE PENETRATION OR OPENINGS ARE MADE.

W.GROUNDING:

1. THE EQUIPMENT GROUNDING CONDUCTOR SHALL RUN CONTINUOUS FROM PANEL TO INVERTERS AND FROM INVERTERS TO LAST PV MODULE IN A STRING. THIS WIRE SHALL BE PIGTAILED TO BOX AND DEVICE. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS BETWEEN PANEL AND INVERTER AND BARE COPPER BETWEEN INVERTERS AND PV MODULES.

W.AESTHETIC CRITERIA NOTES:

1. ALL EXPOSED CONDUIT, RACEWAYS AND BOXES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO ADJACENT BUILDING ELEMENTS AND FASTENED NEATLY AND CONSISTENTLY. IN PUBLIC AREAS, GROUP RACEWAYS IN MINIMUM GROUPS OF THREE RACEWAYS ON A COMMON SUPPORT SYSTEM.
2. MANUFACTURERS LABELS SHALL BE TURNED AWAY FROM PUBLIC VIEW. NO CONSTRUCTION NOTATIONS SHALL BE VISIBLE IN AREAS EXPOSED TO PUBLIC VIEW.
3. ALL NEW DEVICES, OUTLETS, SWITCHES, CONTROLS, ETC. SHALL BE INSTALLED WITH CONCERN FOR ALIGNMENT WITH WORK OF OTHER TRADES. PROVIDE VERTICAL AND HORIZONTAL ALIGNMENT WITH EQUAL SPACING BETWEEN CENTER LINES. IF DOCUMENTS DO NOT INDICATE ALIGNMENT AND/OR SPACING CONSULT WITH ARCHITECT PRIOR ROUGH IN.
4. ALL CONDUIT VISIBLE TO THE PUBLIC SHALL BE PAINTED TO MATCH EXTERIOR.
5. PROVIDE ALL REQUIRED "CUTTING, PATCHING, BACK FILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.

PV GENERAL NOTES

X. ACOUSTICAL NOTES:

1. ALL PENETRATIONS INTO SOUND RATED PARTITIONS OR FLOOR-CEILING ASSEMBLIES WILL BE SEALED, LINED OR INSULATED WITH APPROVED PERMANENT RESILIENT ACOUSTIC SEALANT AND FIRE CAULK (WHERE APPLIES).
2. ALL RIGID CONDUIT LOCATED IN SOUND ASSEMBLIES WILL BE ISOLATED FROM THE BUILDING CONSTRUCTION BY MEANS OF RESILIENT SLEEVES, MOUNTS OR MINIMUM 1/4" THICK APPROVED RESILIENT MATERIAL.
3. ELECTRICAL OUTLETS BOXES IN OPPOSITE FACES OF SEPARATION WALLS WILL BE SEPARATED HORIZONTALLY BY 24" AND NOTE THAT BACK AND SIDES OF BOXES WILL BE SEALED WITH 1/8" RESILIENT SEALANT AND BACKED BY MINIMUM OF 2" THICK MATERIAL FIBER INSULATION. (TV, TELEPHONE AND INTERCOM OUTLETS MUST BE INSTALLED IN BOXES ACCORDINGLY.
4. NO ELECTRICAL PANEL SHALL BE INSTALLED IN SOUND RATED PARTITIONS.

Y. COORDINATION:

1. THERE IS NO ASSURANCE THAT THE LOCATION OF SUBSTRUCTURES SHOWN ON THIS DRAWING ARE ACCURATE, OR THAT ALL EXISTING SUBSTRUCTURES ARE SHOWN ON THIS DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SUBSTRUCTURES WHETHER SHOWN OR NOT. ANY DAMAGE TO THE EXISTING SUBSTRUCTURES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. COORDINATE EXISTING TREE LOCATIONS WITH AS-BUILT LANDSCAPING DRAWINGS. ALL EXISTING TREES THAT WILL BE UNDER THE NEW SOLAR CARPORT STRUCTURES SHALL BE REMOVED. COORDINATE EXACT REMOVAL REQUIREMENTS FOR TREES WITH THE CITY OF MALIBU PRIOR TO REMOVAL OF THE TREES. CONTRACTOR SHALL PROVIDE ALL SERVICES AND PARTS AND PIECES NECESSARY TO REMOVE THE TREES PER THE CITY OF MALIBU'S REQUIREMENTS.
3. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
4. INCLUDE UTILITY COMPANY'S "CONTRACT-DOCUMENTS" WITH THE BID. REMAIN IN CONTACT WITH THE UTILITY COMPANY'S ENGINEERING DEPARTMENT THROUGHOUT THE PROJECT TO ENSURE COORDINATION AND SCHEDULING OF WORK.

Z. STRUCTURAL NOTES:

1. DO NOT EMBED CONDUITS OR SLEEVES IN STRUCTURAL CONCRETE, INCLUDING CONCRETE ON METAL DECK WITHOUT SPECIFIC ACCEPTANCE FROM ARCHITECT. LOCATE ELECTRICAL CONDUIT MINIMUM OF 3" APART AND WITHIN MIDDLE 1/3 OF MEMBER.
2. MULTIPLE CONDUITS PLACED SIDE-BY-SIDE MUST MAINTAIN AT LEAST 1 CONDUIT DIAMETER HORIZONTAL CLEARANCE, BASED ON THE LARGER OF ADJACENT CONDUITS.
3. CONDUIT "BANKS" CONSISTING OF 4 OR MORE CONDUITS MUST BE PLACED IN PLAN VIEW WITHIN THE MIDDLE THIRD OF THE DISTANCE BETWEEN COLUMNS OR BETWEEN COLUMNS AND ENDS/FACES OF WALLS. NO SINGLE "BANK" OF CONDUITS SHALL EXCEED 25 CONDUITS OR A TOTAL WIDTH OF 5 FEET, INCLUDING REQUIRED SPACING BETWEEN CONDUITS.
4. JUNCTION BOXES MAY NOT BE PLACED CLOSER TO EACH OTHER THAN THE LARGEST PLAN DIMENSION OF THE BOX IN EITHER DIRECTION. NO MORE THAN TWO JUNCTION BOXES MAY BE PLACED ADJACENT TO EACH OTHER.
5. THE CONTRACTOR MUST SUBMIT FOR APPROVAL A DETAILED LAYOUT OF CONDUIT THE LOCATIONS OF INDIVIDUAL CONDUIT RUNS OR RUNS OF UP TO THREE ADJACENT CONDUITS DO NOT NEED TO BE PRE-APPROVED, BUT MUST FOLLOW ALL APPLICABLE REQUIREMENTS SET FORTH IN THE DOCUMENTS.
6. NO CONCRETE FLOOR SLABS ARE ALLOWED TO BE POURED WITHOUT APPROVAL OF THE CONDUIT LAYOUT PLAN.
7. EXCEPTIONS TO THE ABOVE RULES WILL BE EVALUATED BY THE STRUCTURAL ON A CASE-BY-CASE BASIS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

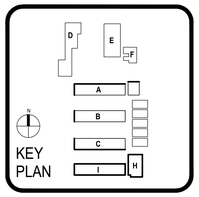
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
230217

DATE 08/22/2025

DRAWN BY: KG CHKED BY: SM

REVISIONS

#	DESCRIPTION	DATE

PHOTOVOLTAIC GENERAL NOTES

This document is for plan review only

E0.02

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
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.	
Project Name: Davis ES Modernization	**Report Page:** (Page 1 of 8)
Project Address: 5224 East Morada Lane	**Date Prepared:** 4/23/2025

A. GENERAL INFORMATION

01	Project Location (city)	Lodi	04	Total Illuminated Hardscape Area (ft²)	74206
02	Climate Zone	12			
03	Outdoor Lighting Zone per Title 24 Part 1	10.114 or as designated by Authority Having Jurisdiction (AHJ):			

☐ LZ-0: Very Low - Undeveloped Parkland ☒ LZ-2: Moderate - Urban Clusters ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐ LZ-1: Low - Rural Areas ☐ LZ-3: Moderately High - Urban Areas

05 Occupancy Types within Project

• All Other Occupancies

B. PROJECT SCOPE

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

My Project Consists of:

01	02		
☐ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6		
☒ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	● Yes	○ No
03	04	05	
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method	
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%	0		

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: Davis ES Modernization	**Report Page:** (Page 2 of 8)
	Date Prepared: 4/23/2025

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**
2,064	+	----	+	----	+	----	+	----	OR ----	=	2,064	≥	1,957	COMPLIES
Shielding Compliance (See Table G for Details)														DOES NOT COMPLY
Controls Compliance (See Table H for Details)														Not applicable

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Davis ES Modernization	**Report Page:** (Page 3 of 8)
	Date Prepared: 4/23/2025

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)11[4]	Field Inspector Pass	Fail
A	Pole Light A	☐ Linear	124	Mfr. Spec	9	New	☐	1,116	Provided	☐	☐
B	Wall Pak B	☐ Linear	71	Mfr. Spec	4	New	☐	284	Provided	☐	☐
C	Canopy Fixture C	☐ Linear	36	Mfr. Spec	14	New	☐	504	NA: < 6200 lumens	☐	☐
D	Pedestrin Post Top D	☐ Linear	53	Mfr. Spec	1	New	☐	53	Provided	☐	☐
						Total Design Watts:		1957			

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

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

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Davis ES Modernization	**Report Page:** (Page 4 of 8)
	Date Prepared: 4/23/2025

G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12	
Name or Item Tag	Complete Luminaire Description	Backlight Rating[2]			Uplight Rating[2]			Glare Rating (Lumens)[2]			Field Inspector	
		Mounting Height[1]	Max Allowable Backlight Rating[3]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating[3]	Uplight Rating Per Design	Mounting Height[1]	Max Allowable Glare Rating[3]	Glare Rating Per Design	Pass	Fail
A	Pole Light A	Back hemisphere is 0.5 - 1 MH from prop line	B2	B2	All other outdoor lighting, including decorative	U2	U0	> 2 MH from property line	G2	G4	☐	☐
A	Pole Light A	Back hemisphere is 0.5 - 1 MH from prop line	B2	B2	All other outdoor lighting, including decorative	U2	U0	> 2 MH from property line	G2	G4	☐	☐
B	Wall Pak B	2 MH from property line	No Limit	B2	All other outdoor lighting, including decorative	U2	U0	> 2 MH from property line	G2	G2	☐	☐
D	Pedestrin Post Top D	Back hemisphere 0.5 MH from prop line	B0	B3	Area Lighting	U0	U2	> 2 MH from property line	G2	G2	☐	☐

[1] *FOOTNOTES: Mounting Height is labeled MH in this table.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)*
[3] *BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Davis ES Modernization	**Report Page:** (Page 5 of 8)
	Date Prepared: 4/23/2025

H. OUTDOOR LIGHTING CONTROLS

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

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

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

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

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Davis ES Modernization	**Report Page:** (Page 6 of 8)
	Date Prepared: 4/23/2025

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

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

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

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

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Parking Lot 1	46170	0.019	877.2	840	0.2	126	1003
Parking Lot 2	13650	0.019	259.3	540	0.2	81	340
Pedestrian Hardscape	14386	0.019	273.3	1644	0.2	246.6	520
Initial Wattage Allowance for Entire Site (Watts):							200
Instances of Initial Wattage Allowance (LZ 0 only)[1]							
Total General Hardscape Allowance (Watts):							2064

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Davis ES Modernization	**Report Page:** (Page 7 of 8)
	Date Prepared: 4/23/2025

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

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Davis ES Modernization	**Report Page:** (Page 8 of 8)
Project Address: 5224 East Morada Lane	**Date Prepared:** 4/23/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Faisal Maseed	Documentation Author Signature: Faisal Maseed
Company: Leaf Engineers	Signature Date: 2025-04-23
Address: 1110 Iron Point Rd Ste 200	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Folsom CA 95630	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name: Steven C Musser	Responsible Designer Signature:
Company: LEAF Engineers	Date Signed: 2025-04-23
Address: 1110 Iron Point Rd. Ste 200	License: E19817
City/State/Zip: Folsom CA 95630	Phone:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

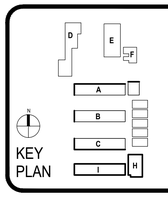
ARCHITECT PBK Architects, Inc. PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

CONSULTANT LEAF Engineers LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-122250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN


REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: KG CHKED BY: SM

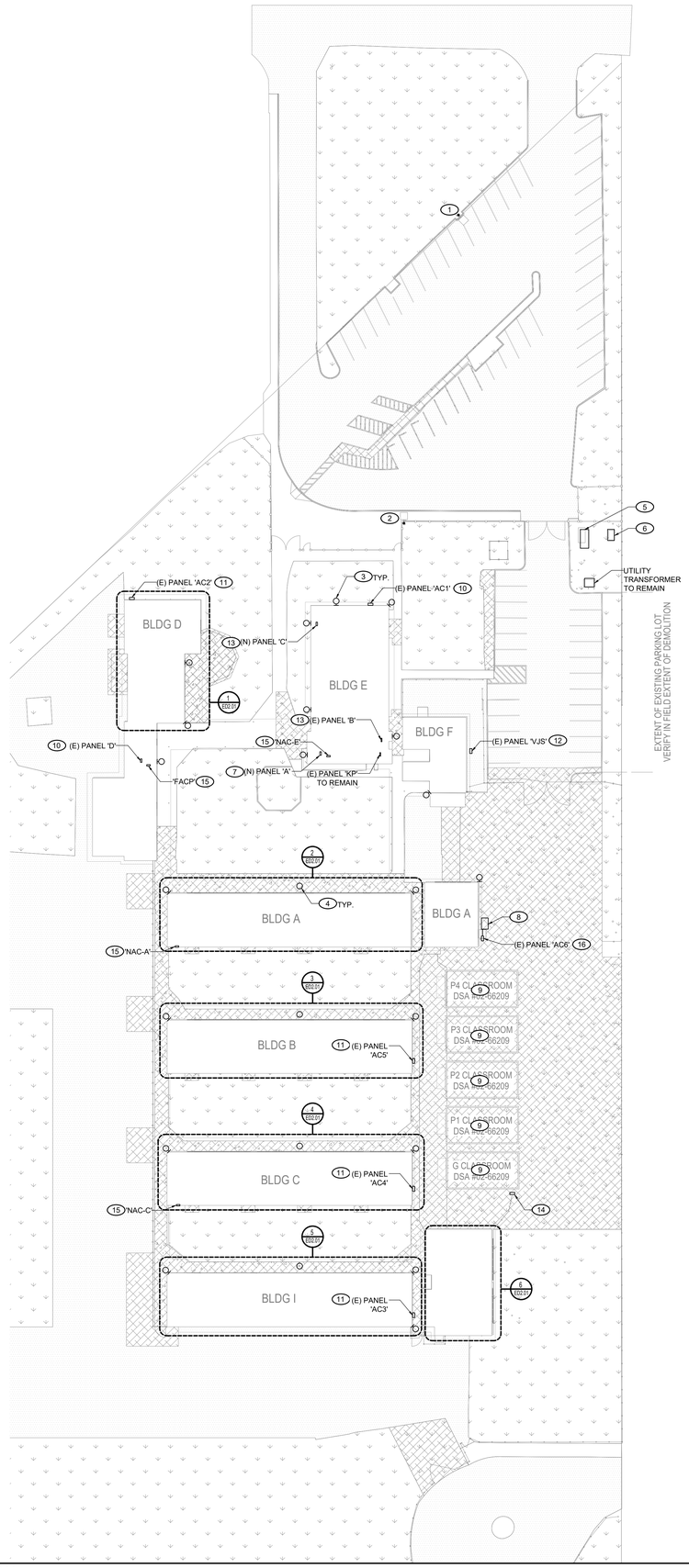
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

TITLE 24 - SITE LIGHTING

E0.03



1 ELECTRICAL DEMOLITION SITE PLAN
SCALE: 1/32" = 1'-0"

GENERAL NOTES

1. AIC RATING FOR NEW EQUIPMENT TO BE PROVIDED PER SHORT CIRCUIT ANALYSIS THAT CONTRACTOR IS TO PROVIDE PER SPECIFICATION 262000 1.8 C. USE AIC RATINGS CALLED OUT ON SHEET E6.01 FOR BIDDING PURPOSES ONLY.

KEYNOTES

1. COORDINATE WITH LOCAL UTILITY THE DISCONNECTION AND REMOVAL OF EXISTING LIGHT POLE.
2. DEMOLISH EXISTING LIGHT POLE. REMOVE AND DEMOLISH FEEDER CONDUCTORS BACK TO SOURCE PANEL.
3. DEMOLISH EXISTING WALL PACK FIXTURE. PRESERVE EXISTING MOUNTING PLATE AND CIRCUITRY FOR RECONNECTION TO NEW FIXTURE.
4. DEMOLISH EXISTING CANOPY FIXTURE. PRESERVE EXISTING MOUNTING PLATE AND CIRCUITRY FOR RECONNECTION TO NEW FIXTURE.
5. EXISTING MAIN SWITCHBOARD TO REMAIN.
6. OLD MAIN SWITCHBOARD CURRENTLY UTILIZED AS PULL SECTION FOR EXISTING FEEDER CONDUCTORS TO PANEL 'A' IN BUILDING 'E'. TO REMAIN.
7. DEMOLISH EXISTING 400A DISTRIBUTION PANEL. PRESERVE EXISTING FEEDER AND BRANCH CIRCUIT CONDUCTORS AND CONDUITS FOR RECONNECTION TO NEW PANEL ONCE INSTALLED. PROVIDE REPLACEMENT CIRCUIT BREAKERS TO MATCH EXISTING PANEL'S SIZE AND QUANTITY.
8. DEMOLISH EXISTING 800A DISTRIBUTION BOARD. PRESERVE EXISTING FEEDER AND BRANCH CIRCUIT CONDUCTORS AND CONDUITS FOR RECONNECTION TO NEW SWITCHBOARD ONCE INSTALLED. PROVIDE REPLACEMENT CIRCUIT BREAKERS TO MATCH EXISTING BOARD'S SIZE AND QUANTITY.
9. PORTABLES BEING DEMOLISHED. DISCONNECT FEEDER CONNECTORS TO LOADCENTERS AND REMOVE BACK TO SOURCE PANEL.
10. DEMOLISH EXISTING 225A DISTRIBUTION PANEL. PRESERVE EXISTING FEEDER AND BRANCH CIRCUIT CONDUCTORS AND CONDUITS FOR RECONNECTION TO NEW PANEL ONCE INSTALLED. PROVIDE REPLACEMENT CIRCUIT BREAKERS TO MATCH EXISTING PANEL'S SIZE AND QUANTITY.
11. DEMOLISH EXISTING 150A DISTRIBUTION PANEL. PRESERVE EXISTING FEEDER AND BRANCH CIRCUIT CONDUCTORS AND CONDUITS FOR RECONNECTION TO NEW PANEL ONCE INSTALLED. PROVIDE REPLACEMENT CIRCUIT BREAKERS TO MATCH EXISTING PANEL'S SIZE AND QUANTITY.
12. DEMOLISH EXISTING 175A DISTRIBUTION PANEL. PRESERVE EXISTING FEEDER AND BRANCH CIRCUIT CONDUCTORS AND CONDUITS FOR RECONNECTION TO NEW PANEL ONCE INSTALLED. PROVIDE REPLACEMENT CIRCUIT BREAKERS TO MATCH EXISTING PANEL'S SIZE AND QUANTITY.
13. DEMOLISH EXISTING 100A LOAD CENTER. PRESERVE EXISTING FEEDER AND BRANCH CIRCUIT CONDUCTORS AND CONDUITS FOR RECONNECTION TO NEW PANEL ONCE INSTALLED. PROVIDE REPLACEMENT CIRCUIT BREAKERS TO MATCH EXISTING PANEL'S SIZE AND QUANTITY.
14. DEMOLISH EXISTING SWITCHBOARD. REMOVE FEEDER CONDUCTORS BACK TO SOURCE.
15. EXISTING FIRE ALARM CONTROL PANEL / NOTIFICATION POWER SUPPLY TO BE REPLACED WITH NEW. DISCONNECT EXISTING ELECTRICAL POWER SUPPLY AND PRESERVE IN PLACE FOR RECONNECTION TO NEW EQUIPMENT IN NEW CONSTRUCTION PHASE.
16. DEMOLISH EXISTING 150A DISTRIBUTION PANEL. REMOVE EXISTING FEEDER CONDUCTORS BACK TO SOURCE. PRESERVE EXISTING BRANCH CIRCUIT CONDUCTORS AND CONDUITS FOR RECONNECTION TO NEW PANEL ONCE INSTALLED. PROVIDE REPLACEMENT CIRCUIT BREAKERS TO MATCH EXISTING PANEL'S SIZE AND QUANTITY.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

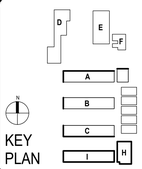
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

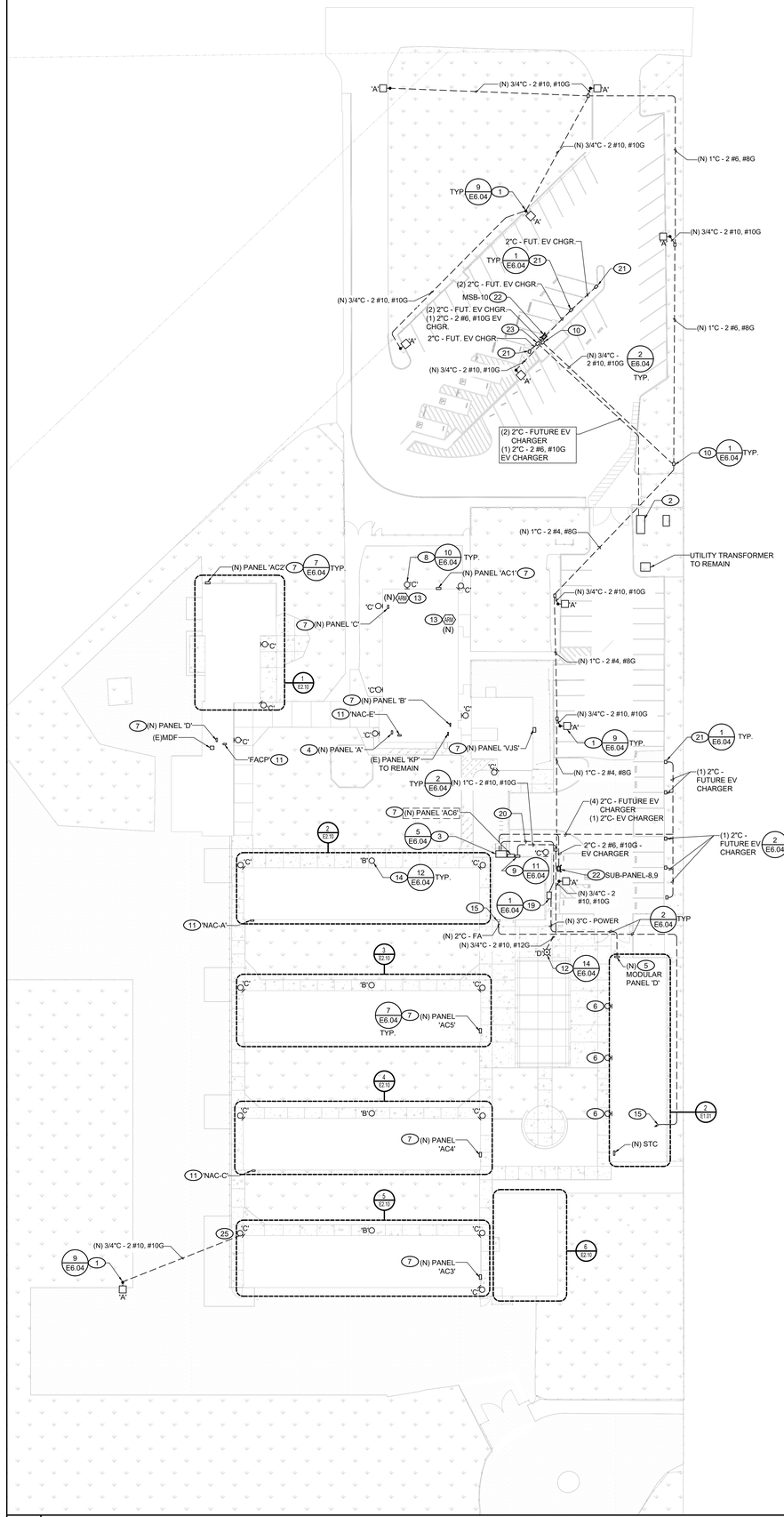
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: KG CHKED BY: SM
REVISIONS

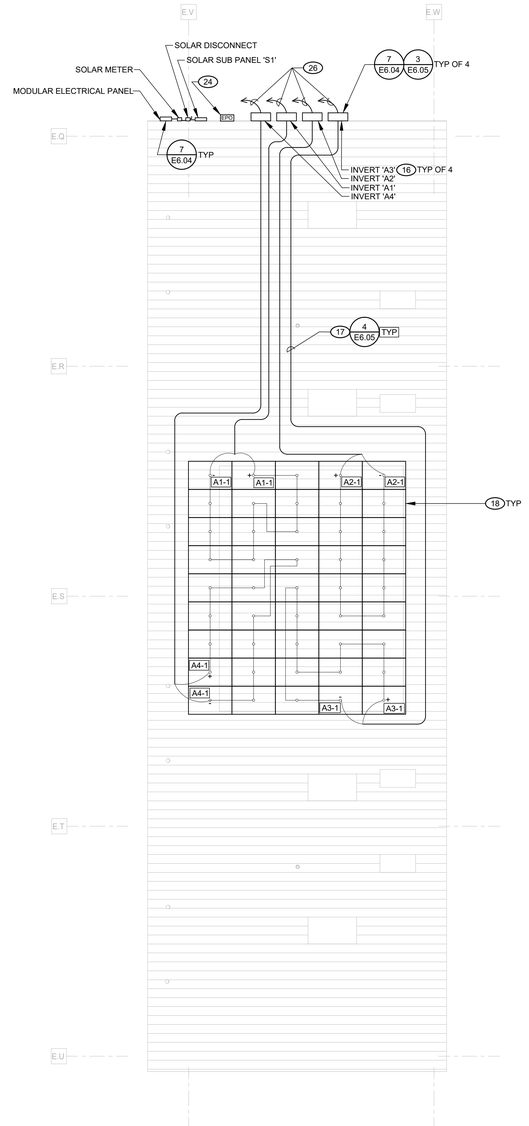
#	DESCRIPTION	DATE

ELECTRICAL DEMOLITION & SITE PLAN

This document is for plan review only

ED1.01





KEYNOTES

1. PROVIDE NEW 20' SITE LIGHTING POLE.
2. EXISTING MAIN SWITCHBOARD.
3. PROVIDE NEW 800A DISTRIBUTION BOARD. EXTEND AND RECONNECT EXISTING FEEDER AND BRANCH CIRCUIT CONDUCTORS AND CONDUITS UNDERGROUND TO NEW LOCATION. PROVIDE REPLACEMENT CIRCUIT BREAKERS TO MATCH EXISTING PANEL'S SIZE AND QUANTITY. NEW EQUIPMENT TO MATCH EXISTING AIC RATING.
4. PROVIDE NEW 400A DISTRIBUTION PANEL. RECONNECT EXISTING FEEDER AND BRANCH CIRCUIT CONDUCTORS AND CONDUITS. PROVIDE REPLACEMENT CIRCUIT BREAKERS TO MATCH EXISTING PANEL'S SIZE AND QUANTITY. NEW EQUIPMENT TO MATCH EXISTING AIC RATING.
5. PROVIDE POWER TO NEW MODULAR BUILDING FROM NEW 800A DISTRIBUTION SWITCHBOARD. SEE SINGLE LINE FOR CONDUIT AND FEEDER SIZES.
6. WALLPACK LIGHTING BY MODULAR MANUFACTURER. SHOWN HERE FOR REFERENCE ONLY TO DEMONSTRATE EGRESS LIGHTING COMPLIANCE.
7. PROVIDE NEW PANELBOARD. SEE ONE LINE FOR COMPLETE SIZE AND AMPERAGE DETAILS. RECONNECT EXISTING FEEDER AND BRANCH CIRCUIT CONDUCTORS AND CONDUITS. PROVIDE REPLACEMENT CIRCUIT BREAKERS TO MATCH EXISTING PANEL'S SIZE AND QUANTITY. NEW EQUIPMENT TO MATCH EXISTING AIC RATING.
8. PROVIDE NEW WALLPACK LIGHT FIXTURE IN OLD FIXTURE'S LOCATION AND CONNECT TO PRESERVED EXISTING LIGHTING POWER CIRCUIT.
9. PROVIDE NEW LIGHTING INVERTER. SEE SINGLE LINE SHEET 'E6.01' FOR MORE INFORMATION.
10. PROVIDE NEW 'N16' UNDERGROUND 'CHRISTY' PULLBOX FOR POWER.
11. PROVIDE POWER TO NEW FIRE ALARM CONTROL PANEL / NOTIFICATION POWER SUPPLY UTILIZING EXISTING ELECTRICAL CIRCUIT PRESERVED IN DEMOLITION PHASE.
12. PROVIDE NEW 15' RADIAN TOP PEDESTRIAN LIGHTING POLE.
13. COORDINATE WITH MECHANICAL AND FIRE ALARM CONTRACTOR THE ELECTRICAL CONNECTIONS TO NEW FIRE ALARM RELAY MODULE TO EXISTING ROOFTOP MECHANICAL UNIT.
14. PROVIDE NEW CANOPY LIGHT FIXTURE IN OLD FIXTURE'S LOCATION AND CONNECT TO PRESERVED EXISTING LIGHTING POWER CIRCUIT.
15. PROVIDE FIRE ALARM CONDUIT PROVISIONS SHOWN FROM EXISTING LOW VOLTAGE JUNCTION AT BUILDING 'A' TO CONNECT WITH NEW MODULAR'S STC CABINET. SEE FIRE ALARM DRAWINGS FOR CABLING TYPE AND QUANTITIES.
16. PV INVERTER. SEE SINGLE LINE SHEET 'E6.02' FOR FURTHER INFORMATION.
17. ROUTE CONDUIT IN ATTIC SPACE BELOW ROOF AND STUB UP AT PV ARRAY. PV STRING FEEDERS WITH COPPER CONDUCTORS:
    - (1) SET OF STRING PER (2) #10, 1000V-RATED PV WIRE
    - (1) #6 SOLID BARE COPER GROUND IN IN CONDUIT. GROUP STRING CONDUCTORS FROM EACH GROUP OF PANELS IN COMMON 1-1/4"C (4 STRINGS MAX PER CONDUIT).
18. SOLAR PV PANELS - REC SOLAR 430W PHOTOVOLTAIC MODULE - 'REC ALPHA PURE-R' SERIES, OR APPROVED EQUAL.
19. PROVIDE 'N40' CHRISTY PULL BOX FOR POWER. UTILIZE NEW PULLBOX FOR EXTENDING PRESERVED FEEDER AND BRANCH CIRCUIT CONDUCTORS AND RACEWAYS FOR TERMINATION AT NEW LOCATION FOR REPLACEMENT 800A DISTRIBUTION BOARD. SEE KEYNOTE #3 AND #20 THIS SHEET FOR MORE INFORMATION.
20. PROVIDE EXTENSIONS TO EXISTING POWER CONDUCTORS AND RACEWAYS TO NEW DISTRIBUTION PANEL'S LOCATION. SEE SINGLE LINE SHEET 'E6.01' FOR COMPLETE INFORMATION.
21. PROVIDE 'N16' UNDERGROUND 'CHRISTY' PULL BOX FOR EV CHARGERS.
22. PROVIDE DUAL CHARGING STATION, LEVITON 'EV48S-DP' ON 'PRO-MOUNT STAINLESS STEEL' PEDESTAL. VERIFY UNIT DEMONSTRATES COMPLIANCE WITH 'CBC-11B-812.10.2' FOR OPERABLE PARTS OF EV CHARGERS PRIOR TO INSTALLATION. SEE '3/E6.04' FOR MOUNTING REQUIREMENTS. SEE ALSO GENERAL NOTE '1' THIS SHEET.
23. PROVIDE 'N30' UNDERGROUND 'CHRISTY' PULL BOX FOR EV CHARGERS.
24. PROVIDE RAPID SHUTDOWN PUSH BUTTON FOR THE PV DC IN A LOCKABLE ENCLOSURE.
25. PROVIDE POWER TO NEW SITE LIGHTING POLE FOR SAFE DISPERSAL AREA BY CONNECTING TO EXISTING LIGHTING CIRCUIT AT WALL PACK.
26. SEE SINGLE LINE SHEET 'E6.02' FOR FEEDER AND RACEWAY SIZES AND QUANTITIES FROM PV INVERTERS TO PANEL 'S1'.

GENERAL NOTES

1. PER PERFORMANCE ENERGY CALCULATION SHOWN ON SHEET T-24A NRCC-PRF-E (PAGE 8 OF 17) BESS IS NOT REQUIRED TO MEET THE ENERGY COMPLIANCE.
2. PER CALIFORNIA ENERGY CODE SECTION 140.10 (a) PV FILLS THE TOTAL FOR ALL AVAILABLE ROOF AREAS (SARA) TO MEET ENERGY CODE REQUIREMENT.
3. PROVIDE PV SYSTEM CAPACITY OF 24kWDC.
4. ALL ELECTRICAL VEHICLE RELATED EQUIPMENT, TYPE/MODEL AND ANY RELATED SOFTWARE IS TO BE PURCHASED, SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR FOR A FULLY OPERATIONAL SYSTEM.
5. SEE ROOF PLAN ON SHEET A-8 FOR THE 4'-0" MINIMUM WIDE "STRAIGHT PERIMETER WALKWAY" REQUIRED PER CFC 1205.3 ON THE LEFT SIDE OF THE ROOF.

1 ELECTRICAL SITE PLAN
SCALE: 1/32" = 1' 0"

2 ENLARGED SOLAR ROOF PLAN
SCALE: 1/32" = 1' 0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: KG CHKED BY: SM

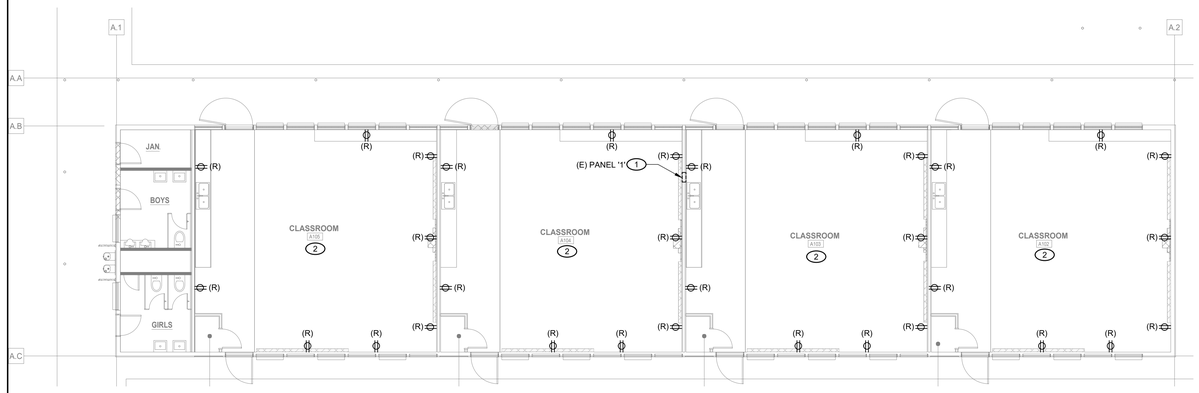
REVISIONS

#	DESCRIPTION	DATE

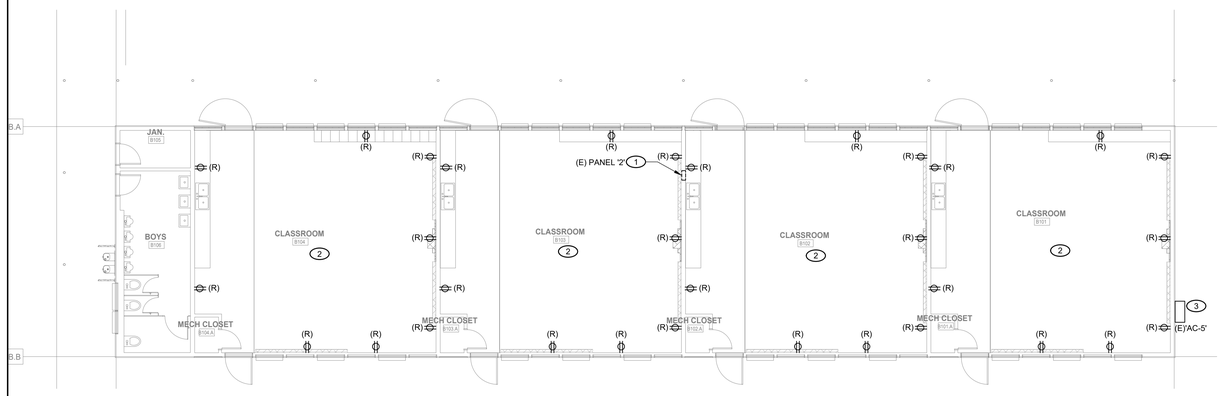
ELECTRICAL SITE PLAN

This document is for plan review only

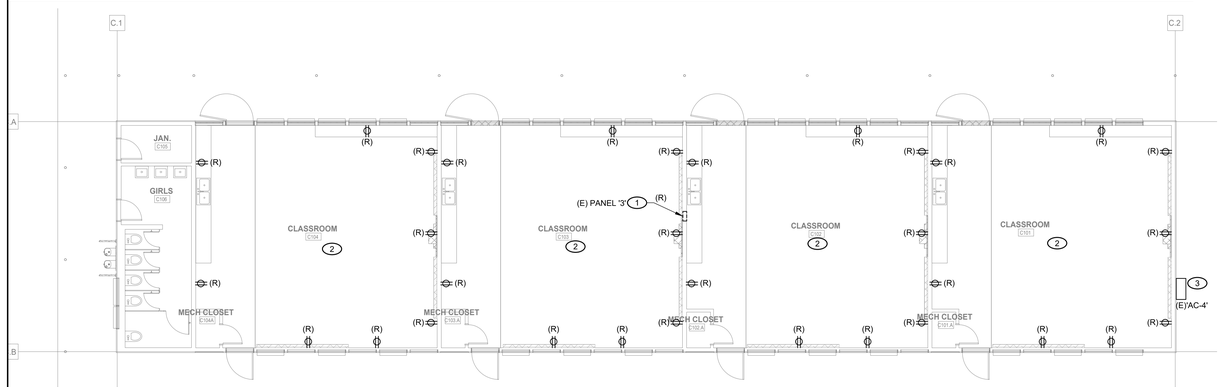
E1.01



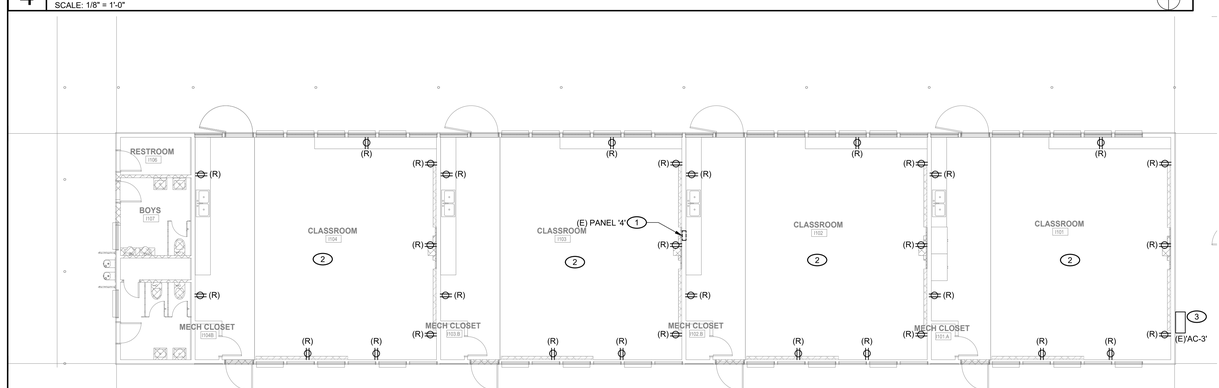
2 ELECTRICAL DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



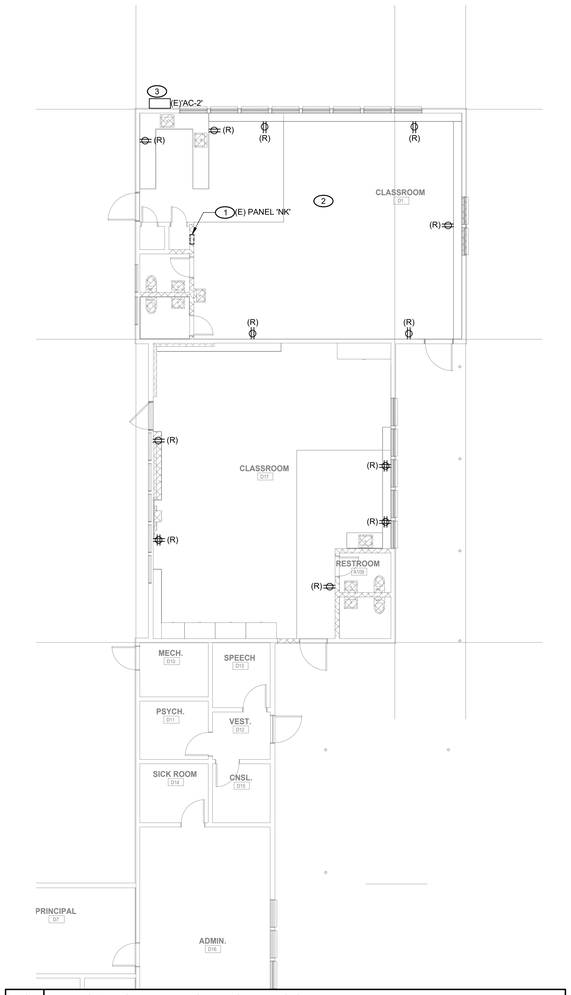
3 ELECTRICAL DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



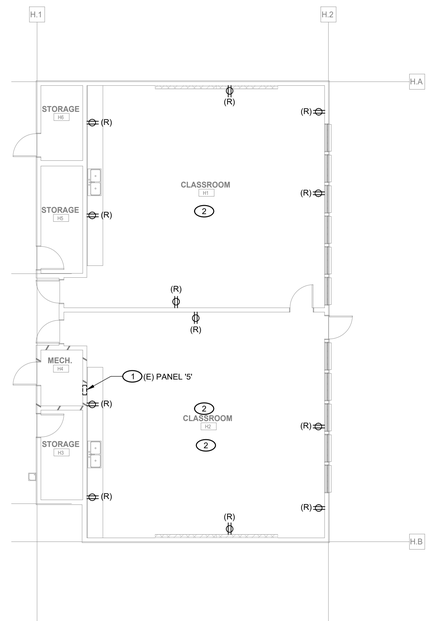
4 ELECTRICAL DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



5 ELECTRICAL DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 ELECTRICAL DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



6 ELECTRICAL DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. EXISTING POWER RECEPTACLE QUANTITY AND LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT ACCURATELY REFLECT ONSITE CONDITIONS. KEYNOTES SHALL APPLY TO ALL EXISTING POWER RECEPTACLES WITHIN CLASSROOMS/BATHROOMS ONSITE.
2. FROM AREAS WITHIN THE SCOPE OF WORK - REMOVE AND DEMOLISH FROM BOTH THE EXTERIOR AND THE INTERIOR OF THE BUILDING, ALL EXPOSED AND UNUSED EXISTING COAXIAL CABLE.

KEYNOTES

1. DEMOLISH EXISTING LOADCENTER. PRESERVE EXISTING FEEDERS TO BE RECONNECTED TO NEW PANEL.
2. DEMOLISH EXISTING POWER AND FIRE ALARM DEVICES IN CLASSROOM - NOT ALL EXISTING DEVICES MAY BE SHOWN ON THESE DRAWINGS. REMOVE CIRCUIT CONDUCTORS AND THEIR CONDUITS BACK TO SOURCE TO MAKE ROOM FOR NEW DEVICE LAYOUT IN NEW CONSTRUCTION PHASE.
3. DEMOLISH EXISTING PANEL. SEE SHEET 'ED1.01' FOR MORE DETAILS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

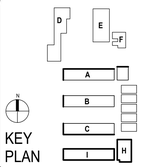
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

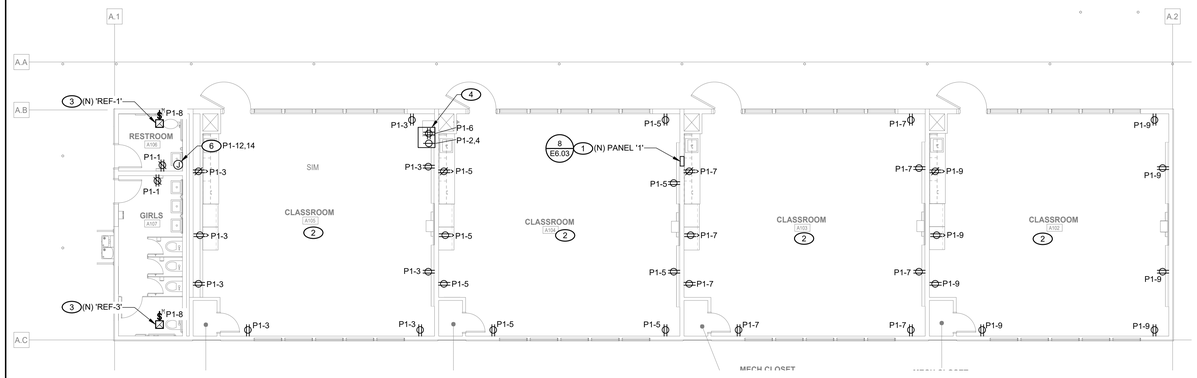
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: KG CHKED BY: SM
REVISIONS

#	DESCRIPTION	DATE

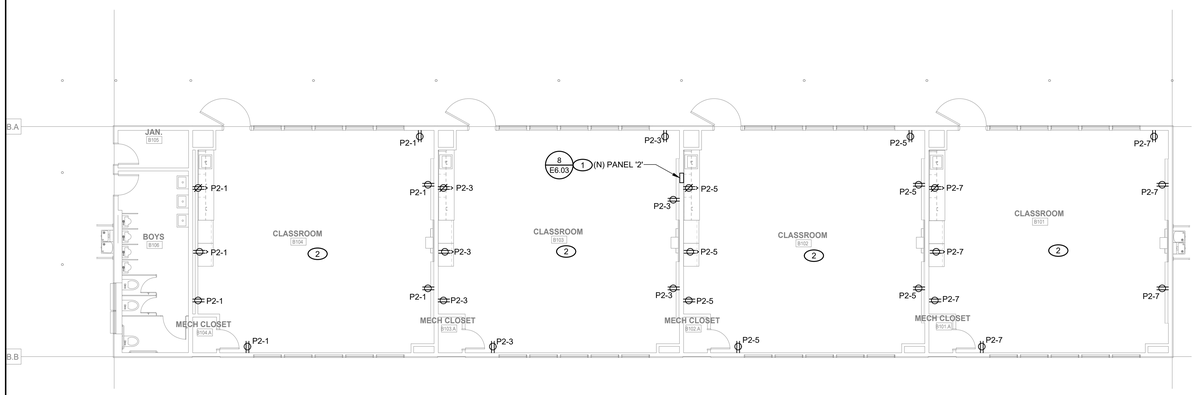
ELECTRICAL DEMOLITION FLOOR PLANS

This document is for plan review only

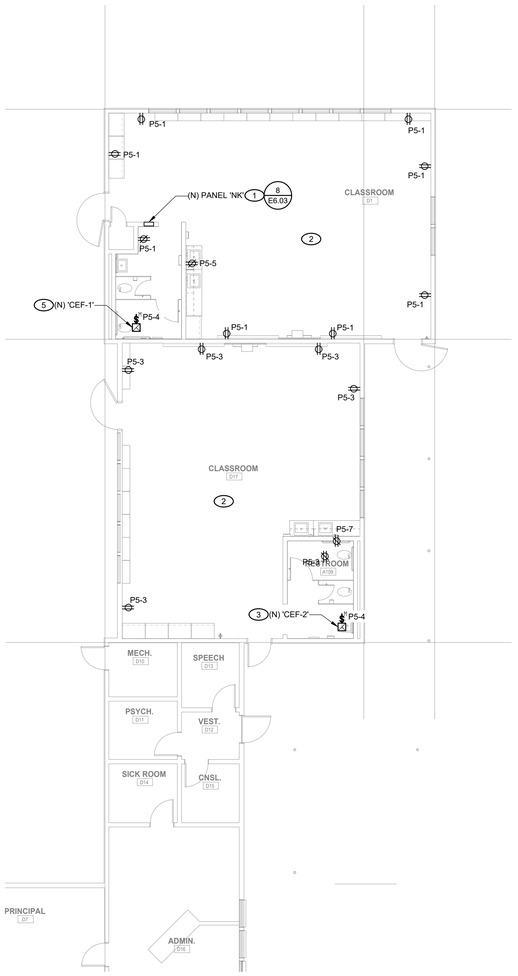
ED2.01



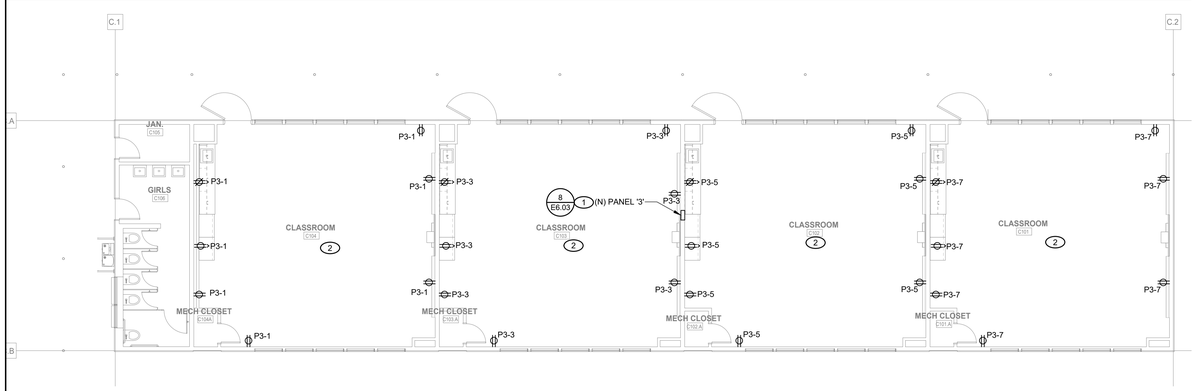
2 ELECTRICAL FLOOR PLAN - BUILDING 'A'
SCALE: 1/8" = 1'-0"



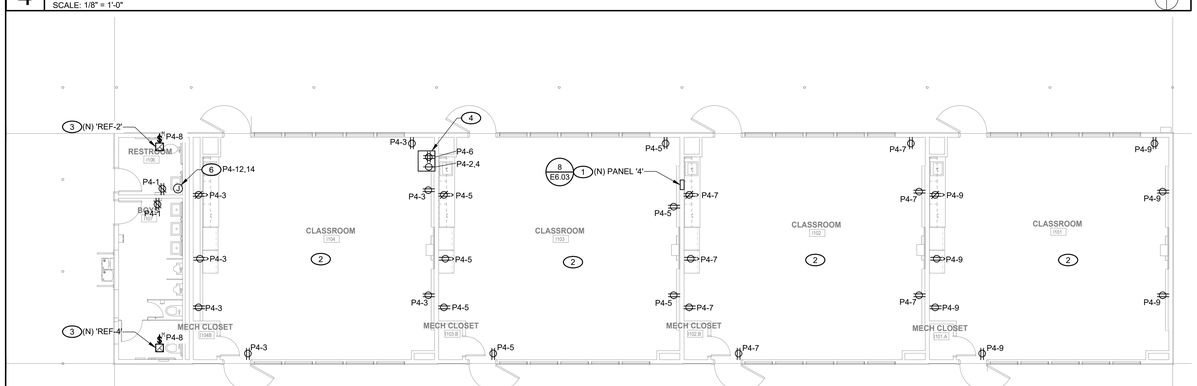
3 ELECTRICAL FLOOR PLAN - BUILDING 'B'
SCALE: 1/8" = 1'-0"



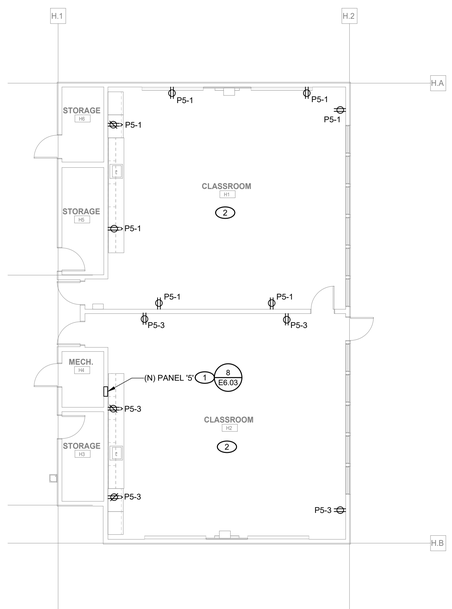
1 ELECTRICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



4 ELECTRICAL FLOOR PLAN - BUILDING 'C'
SCALE: 1/8" = 1'-0"



5 ELECTRICAL FLOOR PLAN - BUILDING 'I'
SCALE: 1/8" = 1'-0"



6 ELECTRICAL FLOOR PLAN - BUILDING 'H'
SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE NEW 100A LOADCENTER. RECONNECT EXISTING FEEDER CONDUCTORS AND CONDUITS, EXTENDING AS NECESSARY TO NEW PANEL LOCATION.
2. PROVIDE NEW POWER RECEPTACLES IN CLASSROOM. ALL DEVICES SHOWN ARE NEW AND ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
3. PROVIDE POWER TO NEW ROOFTOP EXHAUST FAN FOR BATHROOM.
4. PROVIDE DEDICATED QUADPLEX NEMA 5-20 RECEPTACLE AND A DEDICATED NEMA L6-30 RECEPTACLE FOR IDF. COORDINATE LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR PRIOR TO INSTALLATION.
5. PROVIDE POWER TO NEW CEILING EXHAUST FAN FOR BATHROOM.
6. PROVIDE 208V, 1ϕ POWER TO NEW INSTANT WATER HEATER.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

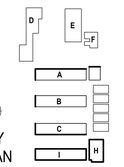
CONSULTANT LEAF Engineers
LEAFENGINEERS.com
LEAF ENGINEERS
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

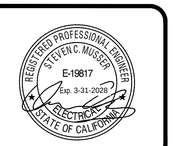
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: KG CHKED BY: SM

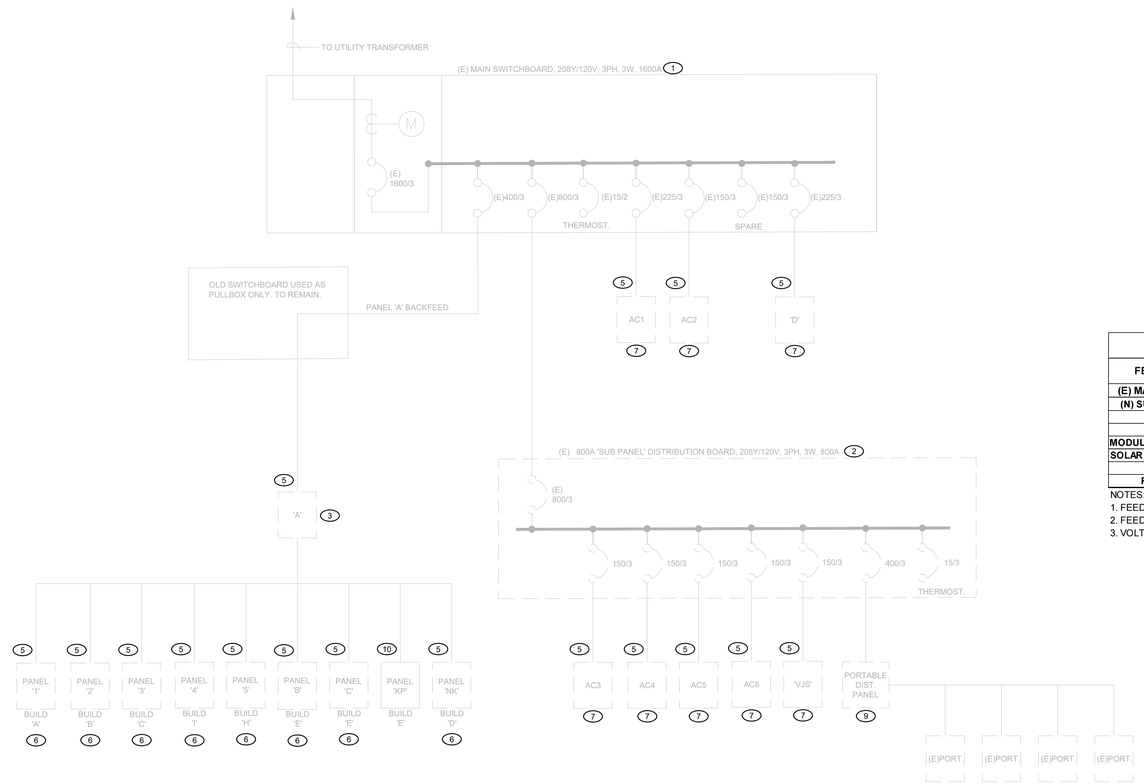
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

ELECTRICAL FLOOR PLAN

E2.01



1 SINGLE LINE DIAGRAM - DEMO
SCALE: NTS

KEYNOTES

1. EXISTING 1600A MAIN SWITCHBOARD TO REMAIN
2. DEMOLISH EXISTING 800A SUB DISTRIBUTION BOARD AND REPLACE WITH NEW. SEE SINGLE LINE DIAGRAM - NEW.
3. DEMOLISH EXISTING 400A DISTRIBUTION PANEL AND REPLACE WITH NEW. SEE SINGLE LINE DIAGRAM - NEW.
4. PROVIDE EXTERNAL NEMA-3R RATED ENCLOSURE FOR SOLAR METER.
5. DISCONNECT AND PRESERVE EXISTING BRANCH FEEDERS AND CONDUITS FOR RECONNECTION TO NEW EQUIPMENT ONCE INSTALLED.
6. DEMOLISH EXISTING CLASSROOM LOADCENTER AND REPLACE WITH NEW. SEE SINGLE LINE DIAGRAM - NEW.
7. DEMOLISH EXISTING PANELBOARD AND REPLACE WITH NEW. SEE SINGLE LINE DIAGRAM - NEW. .
8. RECONNECT EXISTING BRANCH FEEDERS AND CONDUITS TO NEW ELECTRICAL EQUIPMENT
9. DEMOLISH EXISTING 400A DISTRIBUTION BOARD FOR PORTABLES TO BE REMOVED. DISCONNECT AND REMOVE EXISTING FEEDERS.
10. PANEL AND IT'S BRANCH CIRCUITS ARE TO REMAIN. DISCONNECT (E) CONDUCTORS FEEDING PANEL AT CIRCUIT BREAKER IN (E) PANEL 'A' AND PRESERVE FOR RECONNECTION TO CIRCUIT BREAKER IN (N) PANEL 'A' ONCE INSTALLED. SEE SHEET 2/E6.01 AND E6.03 FOR MORE INFORMATION.
11. RE-TERMINATE PRESERVED FEEDER CONDUCTORS TO CIRCUIT BREAKER IN (N) PANEL 'A' TO POWER (E) PANEL 'KP'. SEE PANEL SCHEDULE FOR PANEL 'A' ON SHEET E6.03 FOR MORE INFORMATION.

VOLTAGE DROP CALCULATIONS - FEEDERS

FEEDER	VOLTS	PHASE	AMPS	LENGTH (ft)	SETS	CONDUIT	AMPS /SET	WIRE	GND	Z @0.85pf	VD(L-N)	VD(L-L)	VD%(L-L)
										#N/A	#N/A	#N/A	#N/A
(E) MAIN SWBD	208	3											
(N) SUB PANEL	208	3	640	250	(2)	3-1/2" C.	320	4 # 500	1/O	0.048	3.8	6.7	3.20%
AC6	208	3	120	30	(1)	1-1/2" C.	120	3 # 1/O	6	0.13	0.5	0.8	0.39%
INV	208	3	20	15	(1)	3/4" C.	20	3 # 10	10	1.1	0.3	0.6	0.27%
MODULAR PANEL D	208	3	240	180	(1)	3" C.	240	4 # 350	4	0.053	2.3	4.0	1.91%
SOLAR METER DIS.	208	3	80	30	(1)	1-1/2" C.	80	4 # 1	8	0.16	0.4	0.7	0.32%
S1	208	3	40	30	(1)	1" C.	40	2 # 8	10	0.69	0.8	1.4	0.69%
PV INV	208	1	14	30	(1)	1" C.	14	2 # 6	10	0.44	0.2	0.4	0.17%

NOTES:
1. FEEDER VOLTAGE DROP SHALL NOT EXCEED 2%.
2. FEEDER LENGTHS INDICATED ARE FOR VOLTAGE DROP CALCULATIONS ONLY AND SHALL NOT BE USED FOR QUANTITY TAKEOFFS.
3. VOLTAGE DROP CALCULATIONS ARE PERFORMED PER NEC CHAPTER-9 TABLE-9:
   3-PHASE: VOLTAGE DROP L-L = 1.732 * LENGTH * AMPS * Z /1000.
   1-PHASE: VOLTAGE DROP L-L = 2 * LENGTH * AMPS * Z /1000.

SHORT CIRCUIT CALCULATIONS

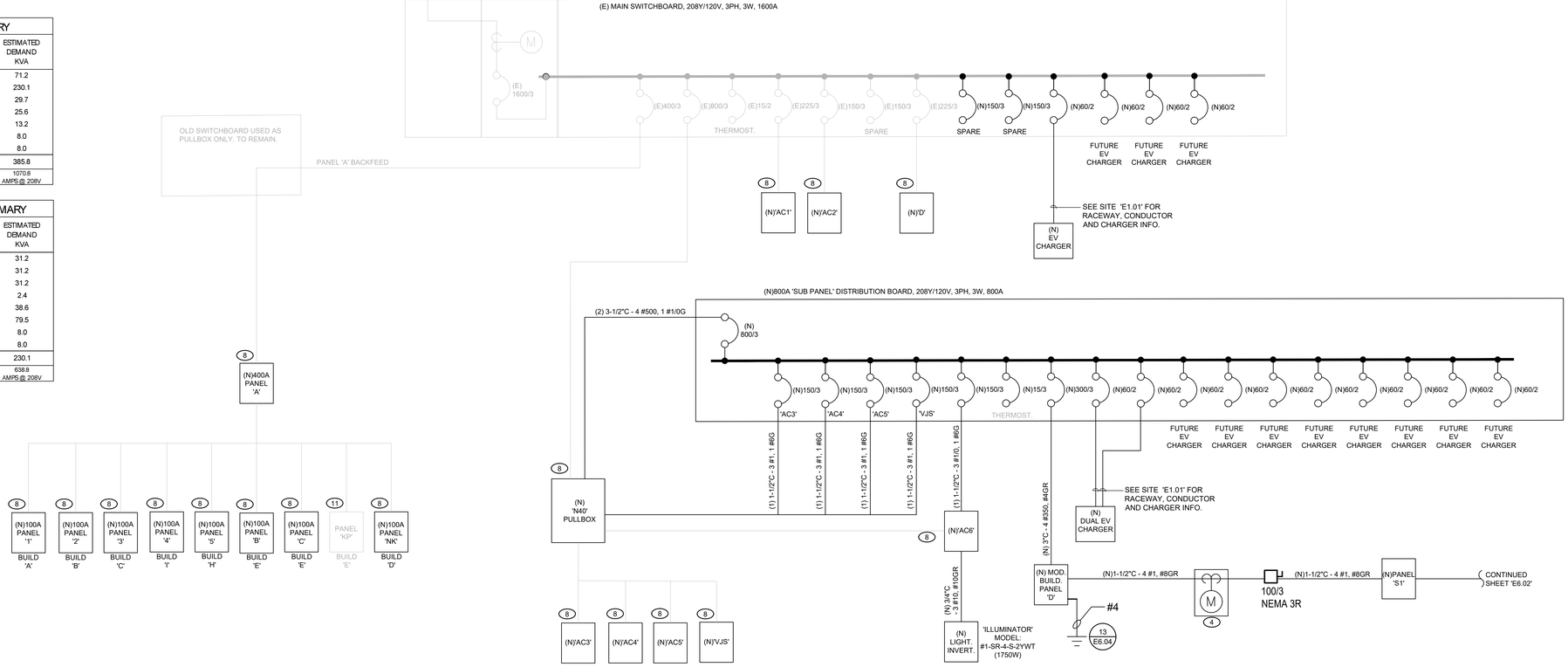
EQUIPMENT NAME	CALCULATED AVAILABLE	EQUIPMENT RATING
(E) MAIN SWBD	65,000	65,000
(N) SUB PANEL	22,000	50,000
AC6	12,143	14,000
INV	3,880	10,000
MODULAR PANEL D	7,667	10,000
SOLAR METER DIS.	6,072	10,000
S1	3,880	10,000
PV INV	3,735	10,000

MSB ELECTRICAL LOAD SUMMARY

LOAD DESCRIPTION	ESTIMATED DEMAND KVA
PANEL A	71.2
SUB PANEL	230.1
PANEL AC-1	29.7
PANEL AC-2	25.6
PANEL D	13.2
EV CHARGER	8.0
EV CHARGER	8.0
ESTIMATED DEMAND LOAD	385.8
	1070.8 AMPS @ 208V

SUB PANEL ELECTRICAL LOAD SUMMARY

LOAD DESCRIPTION	ESTIMATED DEMAND KVA
PANEL AC-3	31.2
PANEL AC-4	31.2
PANEL AC-5	31.2
PANEL VJS	2.4
PANEL AC-6	38.6
PANEL D	79.5
EV CHARGER	8.0
EV CHARGER	8.0
ESTIMATED DEMAND LOAD	230.1
	638.8 AMPS @ 208V



2 SINGLE LINE DIAGRAM - NEW
SCALE: NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

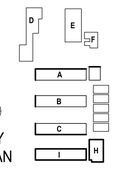
CONSULTANT LEAF Engineers
LEAFENGINEERS.com
LEAF ENGINEERS
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: KG CHKED BY: SM
REVISIONS

#	DESCRIPTION	DATE

ELECTRICAL ONE LINE

This document is for plan review only

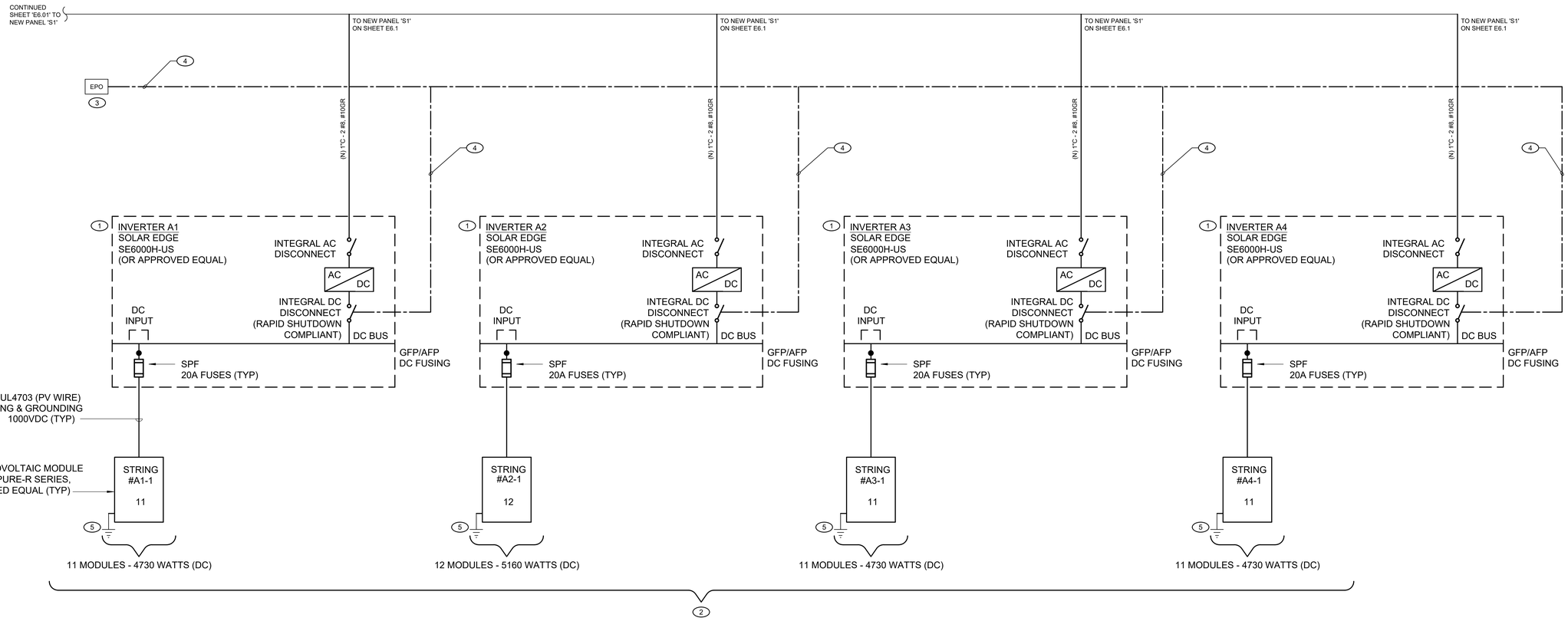
E6.01

GENERAL NOTES

1. PER CALIFORNIA ENERGY CODE SECTION 140.10 (a) PV FILLS THE TOTAL FOR ALL AVAILABLE ROOF AREAS (SARA) TO MEET ENERGY CODE REQUIREMENT.
2. PROVIDE PV SYSTEM CAPACITY OF 24kWDC.
3. PER PERFORMANCE ENERGY CALCULATION SHOWN ON SHEET T-24A NRCC-PRF-E (PAGE 8 OF 17) BESS IS NOT REQUIRED TO MEET THE ENERGY COMPLIANCE.

KEYNOTES

1. SOLAR PV 6KW INVERTER - SOLAR EDGE SINGLE PHASE ENERGY HUB INVERTER WITH PRISM TECHNOLOGY #SE6000H-US. 208VAC, 1000V-RATED, 99% EFFICIENT, 120/208V, 1P, 3W, AC OUTPUT. TRANSFORMERLESS INVERTERS REQUIRE DC- AND DC+ FUSING. INVERTER EQUIPPED WITH DC AND AC DISCONNECT. REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS FOR FURTHER INFORMATION. PROVIDE NEMA 3R ENCLOSURE.
2. (1) SOLAR ARRAY CONSISTING OF (45) 430W SOLAR PANELS TOTAL. REC SOLAR, REC ALPHA PURE R SERIES, 430W MODULES OR APPROVED EQUAL, 1000V DC PER STRING.
3. PROVIDE RAPID SHUTDOWN PUSH BUTTON FOR THE PV DC IN A LOCKABLE ENCLOSURE.
4. PROVIDE CONTROL CABLING FOR RAPID SHUTDOWN OF DC DISCONNECT IN INVERTERS.
5. PROVIDE GROUNDING WITH 1#12G BETWEEN PV PANELS, PV PANEL RACK AND PV CONDUIT ON THE ROOF.



NOTE:

WIRING FROM PV PANELS TO INVERTER BOX SHALL BE RUN IN THE BUILDING ATTIC SPACE TYP. & IN 1" DIA. MAX. CONDUITS (ATTACHED TO BOTTOM OF ROOF PURLINS @ 6'-0" O.C. MAX.) PROVIDE 2- HOLE EMT STRAPS TYP. WITH 2- #8x3/4" S.M.S. TO BOTTOM FLANGE OF ROOF PURLINS (6'-0" O.C. MAX..)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

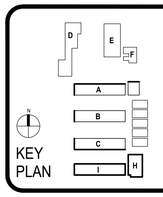
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: KG CHKED BY: SM
REVISIONS

#	DESCRIPTION	DATE

ELECTRICAL ONE LINE

This document is for plan review only

E6.02

(N) PANEL: AC1 — ENCLOSURE: TYPE 1 — OPTIONS: HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING: SURAFACE — MAIN: 150A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
SPARE	--	20/1	1	2	--	--	SPACE
SPARE	--	20/1	3	4	--	--	SPACE
SPARE	--	20/1	5	6	--	--	SPACE
ROOF RECEPT.	180	20/1	7	8	--	--	SPACE
CU-21	1820	40/2	9	10	15/2	135	FC-21
"	1820	"	11	12	"	135	"
CU-22	3553	60/3	13	14	60/3	3553	CU-23
"	3553	"	15	16	"	3553	"
"	3553	"	17	18	"	3553	"
1-1/2HP FAN	717	15/3	19	20	15/3	717	1-1/2HP FAN
"	717	"	21	22	"	717	"
"	717	"	23	24	"	717	"
SPACE	--	--	25	26	--	--	SPACE
SPACE	--	--	27	28	--	--	SPACE
SPACE	--	--	29	30	--	--	SPACE
KVA FOR PHASE A	8.7					72.7	AMPERES
KVA FOR PHASE B	10.5					87.5	AMPERES
KVA FOR PHASE C	10.5					87.5	AMPERES
TOTAL KVA	29.7						

(N) PANEL: AC2 — ENCLOSURE: TYPE 1 — OPTIONS: HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING: SURAFACE — MAIN: 150A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
F-18	1660	30/1	1	2	--	--	SPARE
F-19	1660	30/1	3	4	--	--	SPARE
F-20	1660	30/1	5	6	20/1	180	ROOF RECEPT.
CU-18	2267	40/3	7	8	--	--	SPACE
"	2267	"	9	10	--	--	SPACE
"	2267	"	11	12	--	--	SPACE
CU-19	2267	40/3	13	14	40/3	2267	CU-20
"	2267	"	15	16	"	2267	"
"	2267	"	17	18	"	2267	"
SPACE	--	--	19	20	--	--	SPACE
SPACE	--	--	21	22	--	--	SPACE
SPACE	--	--	23	24	--	--	SPACE
SPACE	--	--	25	26	--	--	SPACE
SPACE	--	--	27	28	--	--	SPACE
SPACE	--	--	29	30	--	--	SPACE
KVA FOR PHASE A	8.5					70.5	AMPERES
KVA FOR PHASE B	8.5					70.5	AMPERES
KVA FOR PHASE C	8.6					72.0	AMPERES
TOTAL KVA	25.6						

(N) PANEL: AC3 — ENCLOSURE: TYPE 1 — OPTIONS: HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING: SURAFACE — MAIN: 150A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
F-6	1180	30/1	1	2	40/3	2003	CU-6
F-7	1180	30/1	3	4	"	2003	"
F-8	1180	30/1	5	6	"	2003	"
F-9	1180	40/3	7	8	40/3	2003	CU-7
SPARE	2267	"	9	10	"	2003	"
ROOF RECEPT.	180	20/1	11	12	"	2003	"
SPACE	--	40/3	13	14	40/3	2003	CU-8
SPACE	--	"	15	16	"	2003	"
SPACE	--	"	17	18	"	2003	"
SPACE	--	--	19	20	40/3	2003	CU-9
SPACE	--	--	21	22	"	2003	"
SPACE	--	--	23	24	"	2003	"
SPACE	--	--	25	26	--	--	SPACE
SPACE	--	--	27	28	--	--	SPACE
SPACE	--	--	29	30	--	--	SPACE
KVA FOR PHASE A	10.4					86.4333	AMPERES
KVA FOR PHASE B	11.5					95	AMPERES
KVA FOR PHASE C	9.4					78	AMPERES
TOTAL KVA	31.2						

(N) PANEL: AC4 — ENCLOSURE: TYPE 1 — OPTIONS: HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING: SURAFACE — MAIN: 150A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
F-6	1180	30/1	1	2	40/3	2003	CU-6
F-7	1180	30/1	3	4	"	2003	"
F-8	1180	30/1	5	6	"	2003	"
F-9	1180	40/3	7	8	40/3	2003	CU-7
SPARE	2267	"	9	10	"	2003	"
ROOF RECEPT.	180	20/1	11	12	"	2003	"
SPACE	--	40/3	13	14	40/3	2003	CU-8
SPACE	--	"	15	16	"	2003	"
SPACE	--	"	17	18	"	2003	"
SPACE	--	--	19	20	40/3	2003	CU-9
SPACE	--	--	21	22	"	2003	"
SPACE	--	--	23	24	"	2003	"
SPACE	--	--	25	26	--	--	SPACE
SPACE	--	--	27	28	--	--	SPACE
SPACE	--	--	29	30	--	--	SPACE
KVA FOR PHASE A	10.4					86.4333	AMPERES
KVA FOR PHASE B	11.5					95	AMPERES
KVA FOR PHASE C	9.4					78	AMPERES
TOTAL KVA	31.2						

(N) PANEL: AC5 — ENCLOSURE: TYPE 1 — OPTIONS: HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING: SURAFACE — MAIN: 150A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
F-6	1180	30/1	1	2	40/3	2003	CU-6
F-7	1180	30/1	3	4	"	2003	"
F-8	1180	30/1	5	6	"	2003	"
F-9	1180	40/3	7	8	40/3	2003	CU-7
SPARE	2267	"	9	10	"	2003	"
ROOF RECEPT.	180	20/1	11	12	"	2003	"
SPACE	--	40/3	13	14	40/3	2003	CU-8
SPACE	--	"	15	16	"	2003	"
SPACE	--	"	17	18	"	2003	"
SPACE	--	--	19	20	40/3	2003	CU-9
SPACE	--	--	21	22	"	2003	"
SPACE	--	--	23	24	"	2003	"
SPACE	--	--	25	26	--	--	SPACE
SPACE	--	--	27	28	--	--	SPACE
SPACE	--	--	29	30	--	--	SPACE
KVA FOR PHASE A	10.4					86.4333	AMPERES
KVA FOR PHASE B	11.5					95	AMPERES
KVA FOR PHASE C	9.4					78	AMPERES
TOTAL KVA	31.2						

(N) PANEL: AC6 — ENCLOSURE: TYPE 1 — OPTIONS: HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING: SURAFACE — MAIN: 175A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
F-2	1180	30/1	1	2	40/3	2267	CU-1
F-3	1180	30/1	3	4	"	2267	"
F-4	1180	30/1	5	6	"	2267	"
F-5	1180	40/3	7	8	40/3	2003	CU-2
F-1	1660	"	9	10	"	2003	"
ROOF RECEPT.	180	20/1	11	12	"	2003	"
SPACE	--	40/3	13	14	40/3	2003	CU-3
SPACE	--	"	15	16	"	2003	"
SPACE	--	"	17	18	"	2003	"
CU-19	2003	40/3	19	20	40/3	2003	CU-4
"	2003	"	21	22	"	2003	"
"	2003	"	23	24	"	2003	"
SPACE	--	--	25	26	**(N)20/2**	**600**	**INVERTER**
SPACE	--	--	27	28	"	**600**	"
SPACE	--	--	29	30	--	--	SPACE
KVA FOR PHASE A	13.2					110.325	AMPERES
KVA FOR PHASE B	13.7					114	AMPERES
KVA FOR PHASE C	11.6					97	AMPERES
TOTAL KVA	38.6						

(N) PANEL: VJS — ENCLOSURE: TYPE 1 — OPTIONS:HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING FLUSH — MAIN:150A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
REFER FANS, LIGHTS	20/1	500	1	2	100/2		SPARE
CIR. FAN - WALK INS	20/1	500	3	4	"		"
BATHROOM HEATER	20/2	600	5	6	20/2	600	AC+HEAT - MAINTENANCE RM
"	"	600	7	8	"	600	"
MAINT. RECEPS 1-3	20/1	720	9	10	15/2	600	AC - ROOF - MAINTENANCE RM
MAINT. RECEPS 2-4	20/1	720	11	12	"	600	
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
KVA FOR PHASE A	0.6					5	AMPERES
KVA FOR PHASE B	0.6					5	AMPERES
KVA FOR PHASE C	1.2					10	AMPERES
TOTAL KVA	2.4						

(N) PANEL: D — ENCLOSURE: NEMA 1 — OPTIONS: HINGED COVER
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING: SURFACE — MAIN: 225 AMP MLO

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
EXISTING LOADS	20/1	50	1	2	20/1	720	RECEPTACLES
"	20/1	500	3	4	20/1	720	"
"	20/1	500	5	6	20/1	720	"
"	20/1	500	7	8	20/1	720	"
"	20/1	500	9	10	20/1	720	"
"	20/1	500	11	12	20/1	720	"
"	20/1	500	13	14	20/1	1000	DEDICATED RECEPS
"	20/1	500	15	16	20/1	1000	DEDICATED RECEPS
"	20/1	500	17	18	20/1	1000	REFRIGERATOR
SPARE	20/1	--	19	20	20/1	1000	MICROWAVE
EXISTING LOADS	20/1	500	21	22	20/1	1000	VENDING MACHINE
"	40/3	1920	23	24	20/1	180	GLOBAL CONTROL MODULE
"	"	1920	25	26	20/1	500	INTERCOM RACK
"	"	1920	27	28	20/1	500	LIGHTING
"	30/2	1440	29	30	20/1	500	LIGHTING, EF-1, EF-2
"	"	1440	31	32	20/1	180	*FACP
"	20/2	960	33	34	20/1	1000	COPIER
"	"	960	35	36	20/1	1000	DEDICATED RECEPS
"	30/2	1440	37	38	20/1	--	SPARE
"	"	1440	39	40	20/1	--	SPARE
SPACE	--	--	41	42	--	--	SPACE
KVA FOR PHASE A	4.1					34	AMPERES
KVA FOR PHASE B	4.9					41	AMPERES
KVA FOR PHASE C	4.1					34	AMPERES
TOTAL KVA	13.2						

* PROVIDE RED HANDLE BREAKER AND LOCK-ON CLIP.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	WATTS	MOUNTING	FIXTURE HEIGHT	DIMMING
A	D-SERIES AREA LIGHT, POLE MOUNTED, FORWARD THROW TYPE 3 OPTICS, INTEGRAL MOTION SENSOR/PHOTOCELL	LITHONIA DSXI	DSXI LED P4 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD & 20' POLE, PART# SSS QS 20 (SIZE) DM19AS DDBXD	4000K LED	MVOLT	124	POLE MOUNT	20'	N/A
B	WALL MOUNTED AREA LIGHT WITH FORWARD THROW TYPE 4 OPTICS, INTEGRAL MOTION SENSOR/PHOTOCELL	LITHONIA WEDGE 3	WDGE3 LED P3 40K 70CRI R4 MVOLT SRM (MOUNTING CONTROLS) DDBXD	4000K LED	MVOLT	71	SURFACE	8'	N/A
C	EXTERIOR SURFACE CANOPY FIXTURE	LITHONIA	CNY LED-P1-40K-MVOLT-DDB	4000K LED	MVOLT	36	SURFACE	9'	N/A
D	PEDESTRIAN POST TOP FIXTURE	LITHONIA	RADPT P3 40K SYM	4000K LED	MVOLT	53	POLE MOUNT	15'	N/A

(N) PANEL: A — ENCLOSURE: NEMA 1 — OPTIONS: HINGED COVER
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING: SURFACE — MAIN: 400 AMP MLO

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
PANEL '1'	4280	1003	1	2	100/3	5100	PANEL 'B'
"	4380	"	3	4	"	4000	"
"	3500	"	5	6	"	3600	"
PANEL '2'	3880	1003	7	8	125/3	3860	PANEL 'KP'
"	1440	"	9	10	"	3500	"
"	1440	"	11	12	"	3000	"
PANEL '3'	3880	1003	13	14	100/3	2940	PANEL 'NK'
"	1440	"	15	16	"	1608	"
"	1440	"	17	18	"	500	"
PANEL '4'	4280	1003	19	20	100/3	--	PANEL 'C'
"	4380	"	21	22	"	--	"
"	3500	"	23	24	"	--	"
PANEL '5'	2440	1003	25	26	50/3	500	JANITOR/FREEZER
"	1440	"	27	28	"	500	"
"	0	"	29	30	"	500	"
CORRIDOR LIGHTS	500	20/1	31	32	20/1	--	SPARE
EXISTING LOAD	500	20/1	33	34	20/1	--	SPARE
EM LIGHTING MP	500	20/1	35	36	20/1	--	SPARE
FAPS	500	20/1	37	38	--	--	SPACE
RECEP WRKSHP OFFICE	360	20/1	39	40	--	--	SPACE
LTG BLDG 7	--	--	41	42	--	--	SPACE
KVA FOR PHASE A	32.2					268	AMPERES
KVA FOR PHASE B	23.5					196	AMPERES
KVA FOR PHASE C	18.0					150	AMPERES
TOTAL KVA	73.7						

(N) PANEL: 1 — ENCLOSURE: TYPE 1 — OPTIONS:HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING FLUSH — MAIN:100A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
RECEPS RESTROOMS	360	20/1	1	2	30/2	500	IDF SPECIALTY RECEP
RECEPS RM 'A105'	1440	20/1	3	4	"	500	"
RECEPS RM 'A104'	1440	20/1	5	6	20/1	500	DEDICATED IDF RECEP
RECEPS RM 'A103'	1440	20/1	7	8	15/1	420	REF-1 & 3
RECEPS RM 'A102'	1440	20/1	9	10	20/1	1000	LIGHTING
SPARE	--	20/1	11	12	20/2	1560	INSTANT WATER HEATER
SPARE	--	20/1	13	14	"	1560	"
SPARE	--	20/1	15	16			SPACE
SPARE	--	20/1	17	18			SPACE
SPARE	--	20/1	19	20			SPACE
SPARE	--	20/1	21	22			SPACE
SPARE	--	20/1	23	24			SPACE
KVA FOR PHASE A	4.3					35.7	AMPERES
KVA FOR PHASE B	4.4					36.5	AMPERES
KVA FOR PHASE C	3.5					29.2	AMPERES
TOTAL KVA	12.2						

PANEL: 2 — ENCLOSURE: TYPE 1 — OPTIONS:HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING FLUSH — MAIN:100A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
RECEPS RM 'B104'	1440	20/1	1	2	20/1	1000	LIGHTING
RECEPS RM 'B103'	1440	20/1	3	4			SPACE
RECEPS RM 'B102'	1440	20/1	5	6			SPACE
RECEPS RM 'B101'	1440	20/1	7	8			SPACE
SPARE	--	20/1	9	10			SPACE
SPARE	--	20/1	11	12			SPACE
SPARE	--	20/1	13	14			SPACE
SPARE	--	20/1	15	16			SPACE
SPARE	--	20/1	17	18			SPACE
SPARE	--	20/1	19	20			SPACE
SPARE	--	20/1	21	22			SPACE
SPARE	--	20/1	23	24			SPACE
KVA FOR PHASE A	3.9					32.3	AMPERES
KVA FOR PHASE B	1.4					12.0	AMPERES
KVA FOR PHASE C	1.4					12.0	AMPERES
TOTAL KVA	6.8						

PANEL: 3 — ENCLOSURE: TYPE 1 — OPTIONS:HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING FLUSH — MAIN:100A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
RECEPS RM 'C104'	1440	20/1	1	2	20/1	1000	LIGHTING
RECEPS RM 'C103'	1440	20/1	3	4			SPACE
RECEPS RM 'C102'	1440	20/1	5	6			SPACE
RECEPS RM 'C101'	1440	20/1	7	8			SPACE
SPARE	--	20/1	9	10			SPACE
SPARE	--	20/1	11	12			SPACE
SPARE	--	20/1	13	14			SPACE
SPARE	--	20/1	15	16			SPACE
SPARE	--	20/1	17	18			SPACE
SPARE	--	20/1	19	20			SPACE
SPARE	--	20/1	21	22			SPACE
SPARE	--	20/1	23	24			SPACE
KVA FOR PHASE A	3.9					32.3	AMPERES
KVA FOR PHASE B	1.4					12.0	AMPERES
KVA FOR PHASE C	1.4					12.0	AMPERES
TOTAL KVA	6.8						

PANEL: 4 — ENCLOSURE: TYPE 1 — OPTIONS:HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING FLUSH — MAIN:100A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
RECEPS RESTROOMS	360	20/1	1	2	30/2	500	IDF SPECIALTY RECEP
RECEPS RM 'C104'	1440	20/1	3	4	"	500	"
RECEPS RM 'C103'	1440	20/1	5	6	20/1	500	DEDICATED IDF RECEP
RECEPS RM 'C102'	1440	20/1	7	8	15/1	420	REF-2 & 4
RECEPS RM 'C101'	1440	20/1	9	10	20/1	1000	LIGHTING
SPARE	--	20/1	11	12	20/2	1560	INSTANT WATER HEATER
SPARE	--	20/1	13	14	"	1560	"
SPARE	--	20/1	15	16			SPACE
SPARE	--	20/1	17	18			SPACE
SPARE	--	20/1	19	20			SPACE
SPARE	--	20/1	21	22			SPACE
SPARE	--	20/1	23	24			SPACE
KVA FOR PHASE A	4.3					35.7	AMPERES
KVA FOR PHASE B	4.4					36.5	AMPERES
KVA FOR PHASE C	3.5					29.2	AMPERES
TOTAL KVA	12.2						

PANEL: 5 — ENCLOSURE: TYPE 1 — OPTIONS:HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING FLUSH — MAIN:100A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
RECEPS RM 'H1'	1440	20/1	1	2	20/1	1000	LIGHTING
RECEPS RM 'H2'	1440	20/1	3	4			SPACE
SPARE	--	20/1	5	6			SPACE
SPARE	--	20/1	7	8			SPACE
SPARE	--	20/1	9	10			SPACE
SPARE	--	20/1	11	12			SPACE
SPARE	--	20/1	13	14			SPACE
SPARE	--	20/1	15	16			SPACE
SPARE	--	20/1	17	18			SPACE
SPARE	--	20/1	19	20			SPACE
SPARE	--	20/1	21	22			SPACE
SPARE	--	20/1	23	24			SPACE
KVA FOR PHASE A	2.4					20.3	AMPERES
KVA FOR PHASE B	1.4					12.0	AMPERES
KVA FOR PHASE C	0.0					0.0	AMPERES
TOTAL KVA	3.9						

PANEL: B — ENCLOSURE: TYPE 1 — OPTIONS:HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING FLUSH — MAIN:100A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
LIGHTS	500	20/1	1	2	20/1	500	EXISTING LOAD
LIGHTS	500	20/1	3	4	20/1	500	EXISTING LOAD
AIR CONDITIONER	1100	30/2	5	6	20/1	500	EXISTING LOAD
"	1100	--	7	8	20/1	500	EXISTING LOAD
LIGHTS KITCHEN	500	20/1	9	10	20/3	500	EXISTING LOAD
LIGHTS KITCHEN	500	20/1	11	12	--	500	EXISTING LOAD
SPLIT	1000	20/2	13	14	--	500	EXISTING LOAD
"	1000	--	15	16	30/3	1000	EXISTING LOAD
SPARE		20/1	17	18	--	1000	EXISTING LOAD
SPARE		20/1	19	20	--	1000	EXISTING LOAD
SPARE		20/1	21	22	--	--	SPACE
SPARE		20/1	23	24	--	--	SPACE
KVA FOR PHASE A	5.1					42.5	AMPERES
KVA FOR PHASE B	4.0					33.3333	AMPERES
KVA FOR PHASE C	3.6					30	AMPERES
TOTAL KVA	12.7						

PANEL: C — ENCLOSURE: TYPE 1 — OPTIONS:HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING: FLUSH — MAIN:100A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
LIGHTS	360	20/1	1	2	20/1	500	LIGHTS STAGE
MAIN LIGHT RELAY	500	20/1	3	4	20/1	500	SPOT LIGHTS - RED
RECEP E&W WALL	500	20/1	5	6	20/1	500	LIGHTS HEATER RMS
RECEPT SOUTH HALL	500	20/1	7	8	20/1	500	LIGHTS SOUTH HALL
RECEPT STAGE	500	20/1	9	10	20/1	500	OUTSIDE LIGHTS
WEST HEATER	500	20/1	11	12	20/1	500	SPOT LIGHTS - WHITE
EAST HEATER	500	20/1	13	14	20/1	500	LIGHTS
EXISTING LOAD	500	20/3	15	16	20/3	1000	EXISTING LOAD
	500	--	17	18	--	500	
	500	--	19	20	--	500	
SPARE	--	20/1	21	22	20/1		SPARE
SPARE	--	20/1	23	24	20/1		SPARE
KVA FOR PHASE A	3.9				3	32.16667	AMPERES
KVA FOR PHASE B	3.5					29.16667	AMPERES
KVA FOR PHASE C	3.0					25	AMPERES
TOTAL KVA	10.4						

PANEL: NK — ENCLOSURE: TYPE 1 — OPTIONS:HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING FLUSH — MAIN:100A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
RECEPS RM 'D1'	1440	20/1	1	2	20/1	1000	LIGHTING
RECEPS RM 'D17'	1440	20/1	3	4	15/1	168	CEF - 1 & 2
WATER FOUNTAIN 'D1'	500	20/1	5	6			SPACE
WATER FOUNTAIN 'D17'	500	20/1	7	8			SPACE
SPARE	--	20/1	9	10			SPACE
SPARE	--	20/1	11	12			SPACE
SPARE	--	20/1	13	14			SPACE
SPARE	--	20/1	15	16			SPACE
SPARE	--	20/1	17	18			SPACE
SPARE	--	20/1	19	20			SPACE
SPARE	--	20/1	21	22			SPACE
SPARE	--	20/1	23	24			SPACE
KVA FOR PHASE A	2.9					24.5	AMPERES
KVA FOR PHASE B	1.6					13.4	AMPERES
KVA FOR PHASE C	0.5					4.2	AMPERES
TOTAL KVA	5.0						

PANEL: S1 — ENCLOSURE: NEMA3R — OPTIONS:HINGED
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING SURFACE — MAIN:100A

LOAD	VA	BKR	CIR	CIR	BKR	VA	LOAD
INVERTER A1	2365	40/2	1	2	40/2	2365	INVERTER A4
--	2365	--	3	4	--	2365	--
INVERTER A2	2580	40/2	5	6			SPACE
--	2580	--	7	8			SPACE
INVERTER A3	2365	40/2	9	10			SPACE
--	2365	--	11	12			SPACE
SPACE			13	14			SPACE
SPACE			15	16			SPACE
SPACE			17	18			SPACE
SPACE			19	20			SPACE
SPACE			21	22			SPACE
SPACE			23	24			SPACE
KVA FOR PHASE A	7.3					60.9167	AMPERES
KVA FOR PHASE B	7.1					59.125	AMPERES
KVA FOR PHASE C	4.9					41.2083	AMPERES
TOTAL KVA	19.4						

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

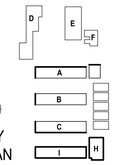
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: KG CHKED BY: SM
REVISIONS

#	DESCRIPTION	DATE

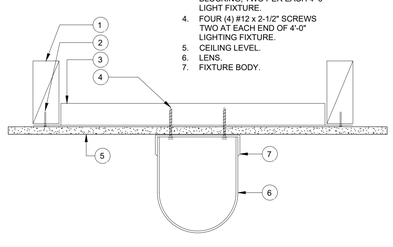
This document is for plan review only

ELECTRICAL SCHEDULES

E6.03

SURFACE MOUNTED FIXTURE - WOOD STUD

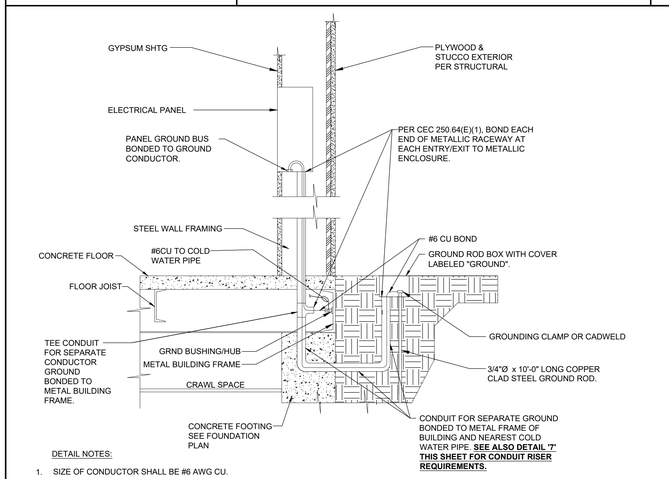
N.T.S 12



1. WOOD CEILING JOIST (TYP.).
2. FOUR (4) #12 WOOD SCREWS, TYP. AT EACH END.
3. FLANGE CUT WOOD STUD BLOCKING, TWO PER EACH 4'-0" LIGHT FIXTURE.
4. FOUR (4) #12 x 2-1/2" SCREWS TWO AT EACH END OF 4'-0" LIGHTING FIXTURE.
5. CEILING LEVEL.
6. LENS.
7. FIXTURE BODY.

MODULAR BUILDING GROUNDING DETAIL

N.T.S 13

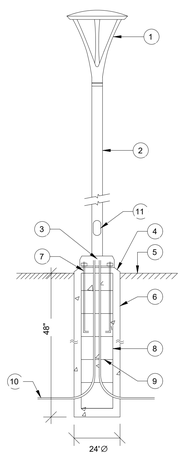


DETAIL NOTES:

1. SIZE OF CONDUCTOR SHALL BE #6 AWG CU.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC. 250-81). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (CEC. 250-81 & 250.83).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDINGS).
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (CEC. 250-84).
5. GROUND TEST SHALL BE WITNESSED BY PROJECT INSPECTOR, AND RECORDED FOR OWNER MANUAL.
6. ELECTRICAL PANEL LOCATION SHOWN IN DETAIL IS DIAGRAMMATIC AND IS ILLUSTRATED HERE FOR CLARITY OF INSTALLATION REQUIREMENTS ONLY. EXTEND RACEWAY AND GROUND TO JOB SPECIFIC LOCATION.
7. COORDINATE WITH STRUCTURAL ALL CONDUITS ROUTED ADJACENT TO OR PENETRATING THROUGH STRUCTURAL FOOTINGS PRIOR TO INSTALLATION.

POST TOP FIXTURE AND BASE DETAIL

N.T.S 14

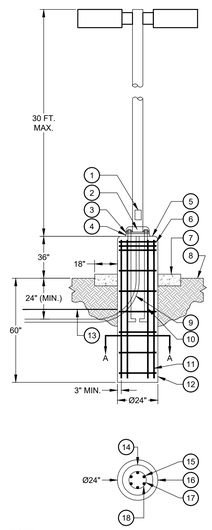


1. YOKE STYLE POST TOP FIXTURE AS INDICATED ON PLANS.
2. 12" ROUND ALUMINUM POLE.
3. BOND #2 BARE CU AND BRANCH CIRCUIT GROUNDING CONDUCTOR TO POLE BASE.
4. 1" CHAMFER.
5. FINISH GRADE.
6. CONCRETE BASE.
7. ANCHOR BOLTS W/ WASHER (4 REQ'D) 5/8" ø x 24" LONG.
8. (4) #6 REBAR VERT.
9. #3 TIES @ 9" O.C.
10. UG CONDUITS (SEE PLAN).
11. HANDHOLE WITH GASKETED COVER.

NOTE:
PER IR-A22, LIGHT POLES LESS THAN 35' TALL SUPPORTED ON GRADE ARE EXEMPT FROM INSPECTION; NOT PART OF THE DSA APPROVAL.

LIGHTING POLE MOUNTING DETAIL

N.T.S 9



1. HANDHOLE IN BASE OF POLE COMPLETE WITH GASKETED COVER.
2. BOND GROUND WIRE/CONDUIT TO POLE.
3. POLE BASE WITH WASHERS AND NUTS ON TOP AND BOTTOM AND FULL BASE COVER.
4. GROUT AROUND POLE BASE AFTER LEVELING.
5. RAISED CONCRETE BASE WITH EASED TOP EDGE 1/2" RADIUS CORNERS. SACK AND PATCH SURFACE TO ACHIEVE A SMOOTH UNIFORM FINISH.
6. PLACE THREE #3 TIES IN TOP 5" BASE.
7. MOW STRIP SHALL BE FLUSH WITH SIDEWALK.
8. FINISHED GRADE.
9. THREE 3/4" CONDUITS - ONE FOR LIGHTING, ONE FOR POWER & ONE FOR SIGNAL.
10. TYPICAL OF SIX 1" x 48" GALVANIZED THREADED RODS WITH NUTS DOUBLED. STEEL GRADE FOR ANCHOR BOLTS SHALL BE F15554 GRADE 36 STEEL (YIELD STRESS 36KSI).
11. SIX #6 VERTICAL REBAR WITH #6 TIES ON 9" CENTER TO FORM CAGE.
12. CONCRETE BASE. CONCRETE TO BE MIN. 3000 PSI. IN 28 DAYS, POURED IN NATURALLY COMPACTED EARTH HOLE FREE OF LOOSE DIRT OR DEBRIS.
13. PLASTIC WARNING TAPE MARKED "ELECTRICAL" 6" ABOVE CONDUIT.

14. TYP. 18" DIAMETER ROUND STEEL CAGE.
15. TYP. 10" DIAMETER ROUND CAGE WITH 9.5" BOLT CIRCLE.
16. CONCRETE BASE.
17. #6 VERTICAL REBAR, TYPICAL OF SIX FOR EACH STEEL CAGE.
18. BOLT WITH #3 TIE, TYP.

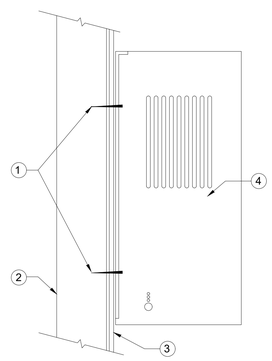
NOTE:
1. REFER TO FIXTURE SCHEDULE FOR POLE AND FIXTURE TYPES.
2. PER IR-A22, LIGHT POLES LESS THAN 35' TALL SUPPORTED ON GRADE ARE EXEMPT FROM INSPECTION; NOT PART OF THE DSA APPROVAL.

WALL MOUNTED FIXTURE DETAIL.

N.T.S 10

WALL MOUNTED INVERTER DETAIL

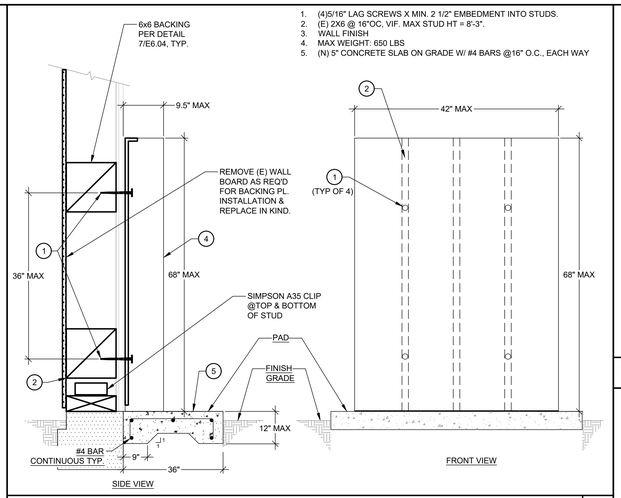
N.T.S 11



1. (4)5/16" LAG SCREWS X MIN. 2 1/2" EMBEDMENT INTO STUDS.
2. WOOD STUDS AT 16" O.C.
3. WALL FINISH

SWITCHBOARD DETAIL

N.T.S 5



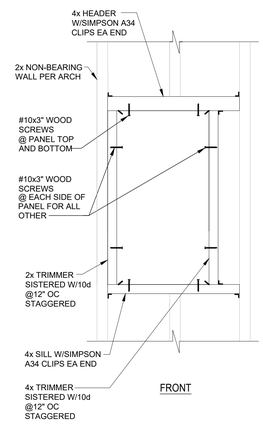
1. (4)5/16" LAG SCREWS X MIN. 2 1/2" EMBEDMENT INTO STUDS.
2. (E) 2X6 @ 16"OC, VIF. MAX STUD HT = 8'-3".
3. WALL FINISH
4. MAX WEIGHT: 650 LBS
5. (N) 5" CONCRETE SLAB ON GRADE W/ #4 BARS @16" O.C., EACH WAY

NOT USED

N.T.S 6

SURFACE MOUNTED PANELBOARD OR CABINET

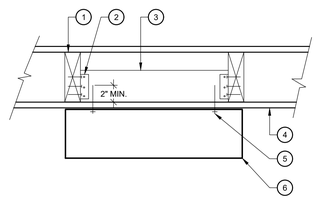
N.T.S 7



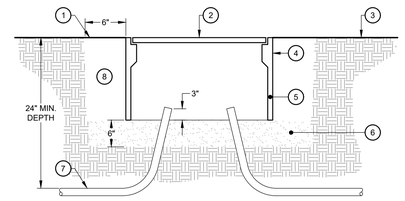
RECESSED MOUNTED PANEL (NON-BEARING WALL)

N.T.S 8

1. 2X WALL STUD.
2. SIMPSON A34 EACH END OF BLOCKING, TYP. TOP AND BOTTOM.
3. 4x4 BLOCKING AT TOP AND BOTTOM.
4. GYP. BOARD.
5. 5/16" x 3" LAG BOLT WITH WASHER, AT EACH CORNER (TYP.)
6. SURFACE MOUNTED PANELBOARD OR CABINET (WT. = 250 LBS. MAX.)

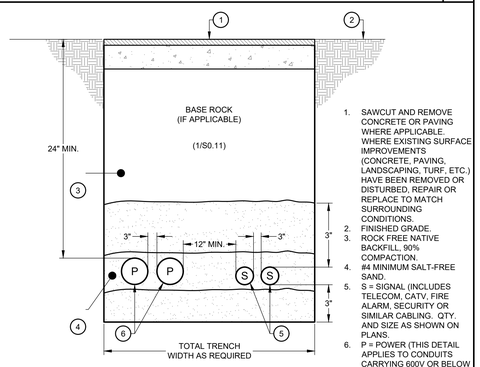


1. SET BOX FLUSH WITH FINISHED GRADE. WHERE EXISTING SURFACE IMPROVEMENTS (CONCRETE, PAVEMENT, LANDSCAPING, TURF, ETC.) HAVE BEEN REMOVED OR DISTURBED. REPAIR OR REPLACE TO MATCH SURROUNDING CONDITIONS.
2. TRAFFIC RATED COVER WHERE APPLICABLE, NON-TRAFFIC RATED REINFORCED CONCRETE COVER OTHERWISE. COVER MARKED OR INSCRIBED WITH INTENDED USE.
3. FINISHED GRADE.
4. REINFORCED CONCRETE PULLBOX. QTY AND SIZE AS SHOWN ON PLANS.
5. PROVIDE BOX EXTENSION RINGS AS REQUIRED.
6. CRUSHED GRAVEL DRAIN BASE BEDDING.
7. TYPICAL UNDERGROUND CONDUIT PER PLANS. DEPTH MIN. 24", SEE TYPICAL TRENCH DETAIL #12, THIS SHEET
8. EXCAVATE A MINIMUM WIDTH EQUAL TO THE DIMENSIONS OF THE BOX PULS 6" ON ALL SIDES. BACKFILL WITH ROCK-FREE NATIVE SOIL AT 90% COMPACTION.



UNDERGROUND PULLBOX DETAIL

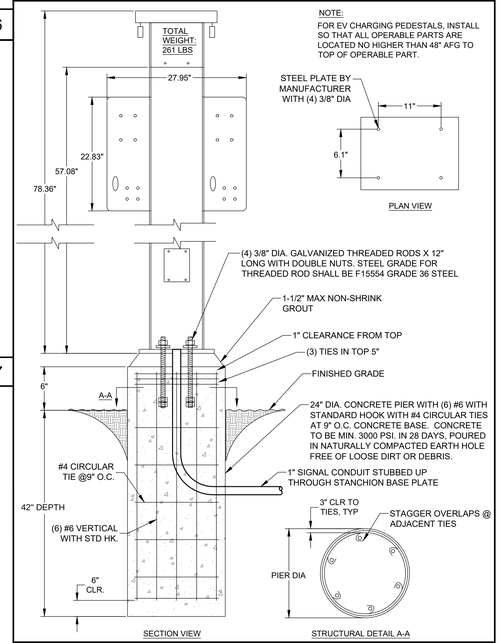
N.T.S 1



1. SAWCUT AND REMOVE CONCRETE OR PAVING WHERE APPLICABLE. WHERE EXISTING SURFACE IMPROVEMENTS (CONCRETE, PAVING, LANDSCAPING, TURF, ETC.) HAVE BEEN REMOVED OR DISTURBED, REPAIR OR REPLACE TO MATCH SURROUNDING CONDITIONS.
2. FINISHED GRADE.
3. ROCK FREE NATIVE BACKFILL, 90% COMPACTION.
4. #4 MINIMUM SALT-FREE SAND.
5. S = SIGNAL (INCLUDES TELECOM, CATV, FIRE ALARM, SECURITY OR SIMILAR CABLING. QTY. AND SIZE AS SHOWN ON PLANS.
6. P = POWER (THIS DETAIL APPLIES TO CONDUITS CARRYING 600V OR BELOW CONDUCTORS. HIGHER VOLTAGE HAS DIFFERENT REQUIREMENTS. QTY. AND SIZE AS SHOWN ON PLANS

TRENCHING DETAIL

N.T.S 2



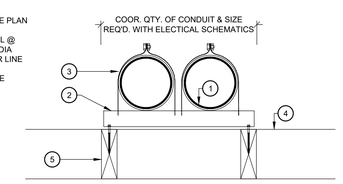
EV-CHARGER PEDESTAL MOUNTING DETAIL

N.T.S 3

NOTE:
FOR EV CHARGING PEDESTALS, INSTALL SO THAT ALL OPERABLE PARTS ARE LOCATED NO HIGHER THAN 48" AFG TO TOP OF OPERABLE PART.

CONDUIT MOUNTED ON WALL

N.T.S 4



1. ELECTRICAL CONDUIT, SEE PLAN FOR SIZE AND QUANTITY.
2. P-1000 UNISTRUT CHANNEL @ 6'-0" O.C. MAX. WITH 3/16"-DIA WOOD SCREW TO CENTER LINE (E) CEILING/ WALL STUD.
3. UNISTRUT P11 SERIES PIPE CLAMP.
4. (E) WALL.
5. (E) 2X WALL STUD.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

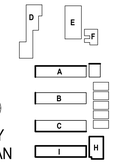
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-122250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER 230217
DATE 08/22/2025
DRAWN BY: KG CHKED BY: SM
REVISIONS

#	DESCRIPTION	DATE

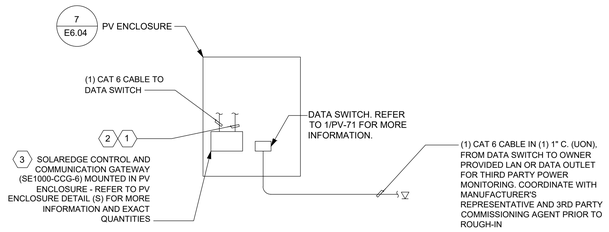
This document is for plan review only

ELECTRICAL DETAILS

E6.04

NOTES

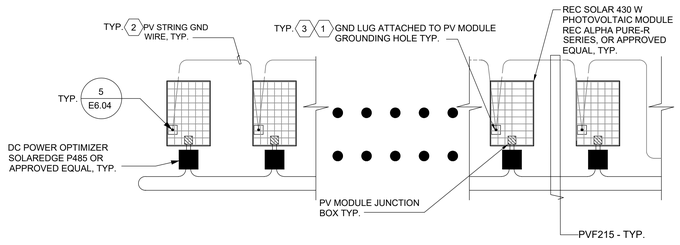
1. SOLAREDGE PV INVERTERS SHALL BE DAISY CHAINED TOGETHER WITH A RS-485 CABLE TO THE BACKUP INTERFACE AND COMMUNICATION GATEWAY IN THE PV ENCLOSURE. INSTALL CABLE PER INVERTERS SPECIFICATIONS AND INSTALLATION MANUAL. FROM THE LAST INVERTER IN THE DAISY CHAIN THE CONTRACTOR SHALL ROUTE A CAT-6 DATA CABLE IN 1" CONDUIT, UON, TO IDF IN BUILDING. COORDINATE WITH MANUFACTURER'S REPRESENTATIVE AND 3RD PARTY COMMISSIONING AGENT PRIOR TO ROUGH-IN.
2. RS-485 CABLE BETWEEN GATEWAY AND INVERTER. INSTALL CABLE PER GATEWAY'S AND INVERTER'S SPECIFICATIONS AND INSTALLATION MANUALS. INVERTERS WILL BE DAISY CHAINED TOGETHER WITH RS-485 CABLE TO THE GATEWAY.
3. CONTRACTOR SHALL PROVIDE WITH CONTROL AND COMMUNICATION GATEWAY (SE1000-CCG-6) THE SOLAREDGE MODULE LEVEL PV MONITORING SOFTWARE AND ALL PARTS AND PIECES NECESSARY FOR A FULLY FUNCTIONAL SOLAREDGE MONITORING SYSTEM.



PV ENCLOSURE N.T.S 3

NOTES

1. ATTACH GROUND LUG TO PV MODULE FRAME GROUND HOLE PER GROUND LUG'S AND PV MODULE'S SPECIFICATIONS AND INSTALLATION MANUALS. VERIFY LOCATION OF PV MODULE FRAME GROUND HOLE PRIOR TO INSTALLATION OF GROUND LUG.
2. ATTACH GROUND WIRE TO GROUND LUG PER GROUND LUG AND PV MODULE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION GUIDE.
3. CONTRACTOR SHALL NOTE, RATHER THAN USING A GROUND LUG TO GROUND THE PV MODULE IT IS ACCEPTABLE TO THE ELECTRICAL ENGINEER FOR THE CONTRACTOR TO GROUND THE PV RACKING SYSTEM AND MODULES PER THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION GUIDE.



TYPICAL PV STRING N.T.S 4

NOTES

#1 PV ENCLOSURE

1. SOLAREDGE PV INVERTERS SHALL BE DAISY CHAINED TOGETHER WITH A RS-485 CABLE TO THE BACKUP INTERFACE AND COMMUNICATION GATEWAY IN THE PV ENCLOSURE. INSTALL CABLE PER INVERTERS SPECIFICATIONS AND INSTALLATION MANUAL. FROM THE LAST INVERTER IN THE DAISY CHAIN THE CONTRACTOR SHALL ROUTE A CAT-6 DATA CABLE IN 1" CONDUIT, UON, TO IDF IN BUILDING. COORDINATE WITH MANUFACTURER'S REPRESENTATIVE AND 3RD PARTY COMMISSIONING AGENT PRIOR TO ROUGH-IN.
2. RS-485 CABLE BETWEEN GATEWAY AND INVERTER. INSTALL CABLE PER GATEWAY'S AND INVERTER'S SPECIFICATIONS AND INSTALLATION MANUALS. INVERTERS WILL BE DAISY CHAINED TOGETHER WITH RS-485 CABLE TO THE GATEWAY.
3. CONTRACTOR SHALL PROVIDE WITH CONTROL AND COMMUNICATION GATEWAY (SE1000-CCG-6) THE SOLAREDGE MODULE LEVEL PV MONITORING SOFTWARE AND ALL PARTS AND PIECES NECESSARY FOR A FULLY FUNCTIONAL SOLAREDGE MONITORING SYSTEM.

#2 PV MODULE GROUNDING LUG

1. ATTACH GROUND LUG TO PV MODULE FRAME GROUND HOLE PER GROUND LUG'S AND PV MODULE'S SPECIFICATIONS AND INSTALLATION MANUALS. VERIFY LOCATION OF PV MODULE FRAME GROUND HOLE PRIOR TO INSTALLATION OF GROUND LUG.
2. ATTACH GROUND WIRE TO GROUND LUG PER GROUND LUG AND PV MODULE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION GUIDE.
3. CONTRACTOR SHALL NOTE, RATHER THAN USING A GROUND LUG TO GROUND THE PV MODULE IT IS ACCEPTABLE TO THE ELECTRICAL ENGINEER FOR THE CONTRACTOR TO GROUND THE PV RACKING SYSTEM AND MODULES PER THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION GUIDE.

#3 PV ENCLOSURE

1. ALL ITEMS INSTALLED IN PV ENCLOSURE SHALL BE INSTALLED PER MANUFACTURERS SPECS AND INSTALLATION MANUALS.
2. CONTRACTOR SHALL INSTALL SOLAREDGE COMPONENTS AND PROVIDE ALL PARTS AND PIECES NECESSARY FOR A FULLY FUNCTIONAL SYSTEM.
3. PROVIDE UNI-STRUT SUPPORTS FOR THE PV ENCLOSURE AS REQUIRED.
4. PROVIDE SURGE PROTECTOR POWER STRIPS AS REQUIRED.

#4 PHOTOVOLTAIC SIGNAGE DETAIL

TO BE PLACED ON BREAKER PANEL/PULL BOXES. TO BE PLACED ON MAIN SERVICE DISCONNECT.

WARNING

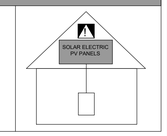
ARC FLASH AND SHOCK HAZARD APPROPRIATE PPE REQUIRED

48 INCH	FLASH HAZARD BOUNDARY
3	CAL/CM² FLASH HAZARD AT 18 INCHES
PPE	LEVEL 2 AR CLOTHING, EAR PROTECTION
	LEATHER GLOVES, SWITCHING HOOD
480 VAC	SHOCK HAZARD WHEN COVER IS REMOVED
42 INCH	LIMITED APPROACH NO UNQUALIFIED PERSONS
12 INCH	RESTRICTED APPROACH -1000 V CLASS 0 GLOVES
1 INCH	PROHIBITED APPROACH - 1000 V CLASS 0 GLOVES

EQUIPMENT NAME: SLURRY PUMP STARTER MCC 2 - 03E

SOLAR SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION, TO SHUTDOWN CONDUCTORS OUTSIDE THE ARRAY. CONDUCTORS WITHIN ARRAY REMAIN ENERGIZED IN SUNLIGHT.



TO BE PLACED ON MAIN SERVICE DISCONNECT. TO BE PLACED ON MAIN SERVICE DISCONNECT/ UTILITY METER.

PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TO BE PLACED ON MAIN SERVICE DISCONNECT. TO BE PLACED ON MAIN SERVICE DISCONNECT/ UTILITY METER.

TO BE MOUNTED ON ALL ELECTRICAL SERVICE PANEL COVERS

WARNING: DEATH OR SERIOUS INJURY MAY RESULT

THIS EQUIPMENT IS INTERCONNECTED TO A SOLAR ELECTRICAL GENERATION SYSTEM, WHICH OPERATES CONTINUOUSLY. DISCONNECT THE D.C. DISCONNECTS AND THE A.C. DISCONNECT PRIOR TO SERVICING OR WORKING ON THE EQUIPMENT

PHOTOVOLTAIC SYSTEM DISCONNECT

MAX OPERATING CURRENT: 100A

OPERATING AC VOLTAGE: 208V

TO BE MOUNTED ON MAIN AC DISCONNECT SWITCH

TO BE MOUNTED ON ALL DC DISCONNECT SWITCHES

PHOTOVOLTAIC DC DISCONNECT

OPERATING CURRENT:	13.5A
OPERATING VOLTAGE:	1000V
MAXIMUM VOLTAGE:	1000V
SHORT-CIRCUIT CURRENT:	3735A

SOLAR PHOTOVOLTAIC DISCONNECT SHUT-OFF

SHUT OFF THE SOLAR PHOTOVOLTAIC D.C. DISCONNECT AND THE A.C. DISCONNECT PRIOR TO SERVICING OR WORKING ON THE SOLAR PHOTOVOLTAIC SYSTEM OR ANY INTERCONNECTED A.C. EQUIPMENT. THE SOLAR PHOTOVOLTAIC SYSTEM PROVIDES CONTINUOUS POWER UNLESS DISCONNECTED

TO BE MOUNTED ON ALL ELECTRICAL SERVICE PANEL COVERS

TO BE MOUNTED ON ALL SYSTEM-RELATED AC ACCUMULATION PANEL COVERS

AC ACCUMULATION PANEL

FOR PHOTOVOLTAIC SYSTEM
NO USER SERVICEABLE PARTS
QUALIFIED PERSONNEL USE ONLY

DO NOT ADD LOAD CIRCUITS

CAUTION SOLAR ELECTRIC SYSTEM

TO BE MOUNTED ON ALL SYSTEM-RELATED JUNCTION AND PULL BOXES

CAUTION SOLAR CIRCUIT

TO BE MOUNTED ON ALL INTERIOR AND EXTERIOR DC CONDCUIT, RACEWAYS, AND CALBE ASSEMBLIES AT 10' INTERVALS. TURNS, AND ABOVE & BELOW PENETRATIONS

DETAIL NOTES:

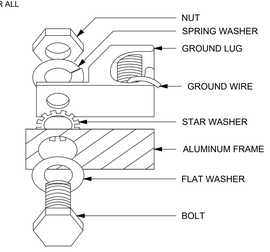
SIGNAGE SHALL COMPLY WITH THE FOLLOWING:

1. RED BACKGROUND
2. WHITE LETTERING
3. MINIMUM 1/2" LETTER HEIGHT
4. ALL CAPITAL LETTERS
5. ARIAL OR SIMILAR FONT, NON-BOLD
6. REFLECTIVE, WEATER-RESISTANT MATERIAL SUITABLE FOR THE ENVIROMENT

PHOTOVOLTAIC SIGNAGE DETAIL N.T.S 1

DETAIL NOTES:

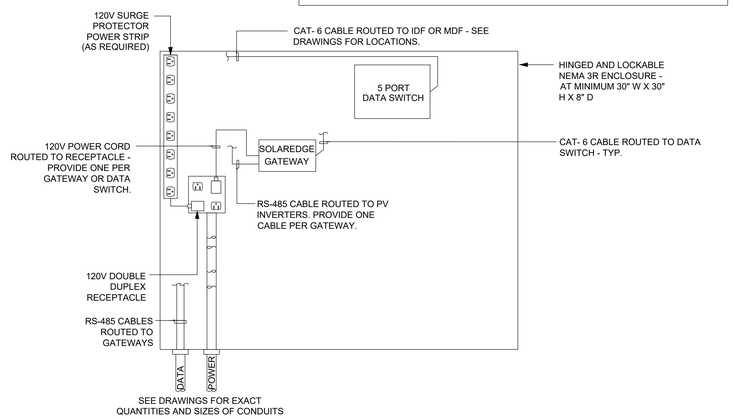
1. USE ANTI-OXIDANT ON WIRE TERMINATION AND UNDER ALL WASHERS.



PV MODULE GROUNDING LUG DETAIL N.T.S 5

PV ENCLOSURE - DETAILS NOTES:

1. ALL ITEMS INSTALLED IN PV ENCLOSURE SHALL BE INSTALLED PER MANUFACTURERS SPECS AND INSTALLATION MANUALS.
2. CONTRACTOR SHALL INSTALL SOLAREDGE COMPONENTS AND PROVIDE ALL PARTS AND PIECES NECESSARY FOR A FULLY FUNCTIONAL SYSTEM.
3. PROVIDE UNI-STRUT SUPPORTS FOR THE PV ENCLOSURE AS REQUIRED.
4. PROVIDE SURGE PROTECTOR POWER STRIPS AS REQUIRED.



PV ENCLOSURE DETAIL N.T.S 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

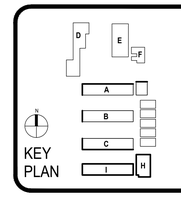
CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: KG CHKED BY: SM

REVISIONS

#	DESCRIPTION	DATE

PHOTOVOLTAIC DETAILS

This document is for plan review only

E6.05

FIRE ALARM MATRIX OF OPERATION

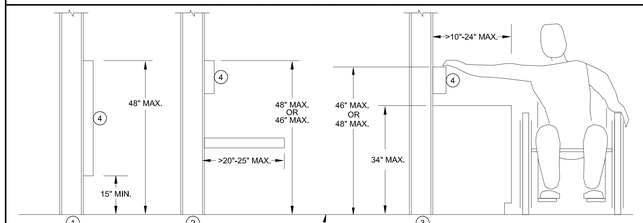
*REFERENCE NFPA 72, FIGURE A.14.6.2.4 (PAGE 72-228)

● = ACTION
□ = NO ACTION

FIRE ALARM SYSTEM OUTPUTS

FIRE ALARM SYSTEM INPUTS	A: ACTIVATE COMMON ALARM SIGNAL INDICATOR @ FACP	B: ACTUATE ALL AUDIBE/VISUAL ALARM SIGNALS AT BUILDING	C: ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR @ FACP	D: ACTUATE AUDIBLE SUPERVISORY SIGNAL @ FACP	E: ACTUATE AUDIBLE COMMON TROUBLE SIGNAL @ FACP	F: SHUT DOWN HVAC UNIT FANS IN ASSOCIATED BUILDING	G: TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	H: TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	I: TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	J: CLOSE FSD's AND FIRE DOORS IN RATED WALLS	K: RELEASE ELECTROMAGNETICALLY HELD DOORS	L: SOUND TEMPORAL CODE 4 SIGNAL
1. MANUAL FIRE ALARM PULL STATION	●	●					●				●	
2. SMOKE OR HEAT DETECTOR	●	●				●	●			●	●	
3.												
4.												
5.												
6. FIRE ALARM AC POWER FAILURE					●				●			
7. FIRE ALARM SYSTEM LOW BATTERY					●				●			
8. FIRE ALARM OPEN CIRCUIT					●				●			
9. FIRE ALARM GROUND FAULT					●				●			
10. NAC CIRCUIT SHORT					●				●			
11. CELLULAR COMMUNICATOR FAULT					●				●			
12. CO DETECTOR	●	●				●	●					●
13. EXTINGUISHING SYSTEM (ANSUL)	●	●					●					

MOUNTING OVER OBSTRUCTION DETAIL

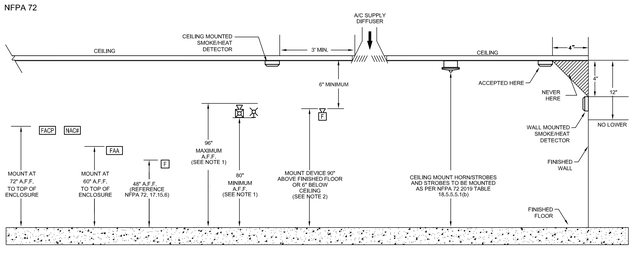


NOTES: (#)

1. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES (1219MM) MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES (381MM) MINIMUM ABOVE THE FINISHED FLOOR OR GROUND.
2. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES (1219MM) MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES (508MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20 INCHES (508MM), THE HIGH FORWARD REACH SHALL BE 44 INCHES (1118MM) MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES (635MM) MAXIMUM.
3. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES (864MM) MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES (610MM) MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES (1219MM) MAXIMUM FOR A REACH DEPTH OF 10 INCHES (254MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES (254MM), THE HIGH SIDE REACH SHALL BE 46 INCHES (1168MM) MAXIMUM FOR A REACH DEPTH OF 24 INCHES (610MM) MAXIMUM.
4. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SECTION 11B-308 AS SHOWN ABOVE.

FIRE ALARM ELEVATION MOUNTING DETAIL

NFPA 72



NOTES:

1. WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 IN. (2.03m) AND NOT GREATER THAN 96 IN. (2.44m) ABOVE THE FINISHED FLOOR OR AT THE MOUNTING HEIGHT SPECIFIED USING THE PERFORMANCE-BASED ALTERNATIVE OF 18.5.5.7. (NFPA 72, CHAPTER 18.5.5.1*)
2. WHERE LOW CEILING HEIGHTS DO NOT PERMIT ALL MOUNTING AT A MINIMUM OF 80 IN. (2.03m), WALL MOUNTED VISUAL NOTIFICATION APPLIANCES SHALL BE MOUNTED WITHIN 6 IN. (150mm) OF THE CEILING. (NFPA 72, CHAPTER 18.5.5.2)

FIRE ALARM DEVICE ADDRESS LEGEND

L#. ##
- SLC OR ZONE DEVICE
- SLC CIRCUIT/LOOP

1. SIGNATURE LINE CIRCUIT (INITIATION) DEVICE ADDRESS. ADDRESSES MAY DIFFER DEPENDING ON MANUFACTURER.

N#. #
- NAC DEVICE
- NAC CIRCUIT (FACP)

2. FACP NOTIFICATION APPLIANCE CIRCUIT ADDRESS.

#. #. #
- NAC DEVICE
- NAC CIRCUIT
- NAC POWER SUPPLY # (REMOTE POWER SUPPLY)

3. REMOTE POWER SUPPLY NOTIFICATION APPLIANCE CIRCUIT ADDRESS.

("cd" = CANDELA SETTING)
(DECIBEL SETTINGS DEPEND ON MANUFACTURER)

S# #. #
- SPEAKER/SPEAKER STROBE
- SPEAKER CIRCUIT
- AMPLIFIER NUMBER

4. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM AMPLIFIER AND SPEAKER ADDRESSES.

("W" = WATTS)

*DEVICE ADDRESSING VARIES DEPENDING ON THE MANUFACTURER. F/A CONTRACTOR TO PROGRAM DEVICES ACCORDING TO THE MANUFACTURER'S OPERATION MANUAL.

FIRE ALARM SYSTEM EQUIPMENT LEGEND AND SYMBOLS

SYM.	MODEL	MANUFACTURER	DESCRIPTION	MOUNTING	CSFM #
FACP	E-3	GAMEWELL	EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM PANEL W/MICROPHONE ILI-MB-E3 INTELLIGENT LOOP INTERFACE - MAIN BOARD ILI-S-E3 INTELLIGENT LOOP INTERFACE - EXPANSION BOARD LCD-SLP LCD TOUCH SCREEN DACT-E3 DIGITAL ALARM COMMUNICATOR TRANSMITTER ANU-48 LED DRIVER MODULE ASM-16 ADDRESSABLE SWITCH MODULE INCC-MIC PAGIN MICROPHONE PM-9 POWER SUPPLY MODULE INI-VG INTELLIGENT NETWORK INTERFACE-VOICE GATEWAY	WALL MOUNT	7165-1703:0125
FAC	HW-TG7FS-A	HONEYWELL/ TELGUARD	5G CELLULAR FIRE ALARM COMMUNICATOR (AT&T)	WALL MOUNT	7300-1402:0504
AMP-#	AM-50-70	GAMEWELL	50 AMP /70.7VRMS EMERGENCY VOICE/FIRE ALARM SYSTEM AMPLIFIER ("8" SIZE CABINET)	WALL MOUNT	7165-1703:0125
NAC-#	HPF24S8	GAMEWELL	8 AMP, NOTIFICATION APPLIANCE DISTRIBUTED POWER SUPPLY	WALL MOUNT	7315-1637:0102
BATT	FCI-LBB	GAMEWELL	BATTERY BOX	WALL MOUNT @ FACP	7165-1703:0125
FATC	SSU00636	S.A.E.	FIRE ALARM TERMINAL CABINET	WALL MOUNT	7300-0553:0110
AIM-1	AMM-4F	GAMEWELL	SINGLE ADDRESSABLE INPUT MODULE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-1703:0102
ARM	AOM-2RF	GAMEWELL	ADDRESSABLE RELAY MODULE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-1703:0102
AOM	AOM-2SF	GAMEWELL	ADDRESSABLE CONTROL MODULE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-1703:0102
S P	ASD-PL3 B300-6	GAMEWELL	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR HEAD DETECTOR BASE	4-11/16" SQUARE BOX W/ 3 O RING	7272-1703:0501 7300-1653:0109
S P SB	MCS-COF3 B200S-WH	GAMEWELL	COMBINATION SMOKE/CARBON MONOXIDE DETECTOR (P = PHOTOELECTRIC, CO = CARBON MONOXIDE, SB = SOUNDER BASE (TEMPORAL CODE 4) B200S-IV)	4-11/16" SQUARE BOX W/ 3 O RING	7272-1703:0508 7300-1653:0213
H	ATD-L3H B300-6	GAMEWELL	ADDRESSABLE HEAT DETECTOR HEAD DETECTOR BASE	4-11/16" SQUARE BOX W/ 3 O RING	7270-1703:0502 7300-1653:0109
F	MS-7AF	GAMEWELL	ADDRESSABLE DOUBLE ACTION PULL STATION	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7150-1703:0119
	SRL-P	SYSTEM SENSOR	MULTI CANDELA STROBE, WALL MOUNT - PLAIN NON MARKING	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7125-1653:0504
	SPSRL-P	SYSTEM SENSOR	MULTI CANDELA TEMPORAL SPEAKER STROBE, WALL MOUNT - PLAIN NON MARKING	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7320-1653:0505
WP S	SPRK	SYSTEM SENSOR	WEATHER PROOF SPEAKER, WALL MOUNT-RED	WBB BACK BOX IS INCLUDED	7320-1653:0201
DOC	SSU00672	SAE	FIRE DOCUMENT BOX-RED	WALL MOUNT @ FACP	UL LISTED
J	TBD	TBD	ELECTRICAL JUNCTION BOX (VARIABLE SIZES)	TBD	N/A
NO SYMBOL	PS-1270	POWER-SONIC	12VDC, 7Ah SEALED LEAD ACID RECHARGEABLE BATTERY	INSTALL IN NAC AND COMMUNICATOR ENCLOSURES	UL LISTED
NO SYMBOL	PS-12120	POWER-SONIC	12VDC, 12Ah SEALED LEAD ACID RECHARGEABLE BATTERY	INSTALL IN AMPLIFIER ENCLOSURES	UL LISTED
NO SYMBOL	STI-7550	STI	NEMA 4X CLEAR CABINET WITH LOCK	WALL MOUNT EXTERIOR	UL LISTED UL S7255

FIRE ALARM WIRE SCHEDULE

TAG	COND.	TYPE	AWG	DESCRIPTION	USE
A	2	SOLID	18	#18/2, RED JACKET, FPLP	SIGNAL LINE CIRCUIT (SLC)
Au	2	STRANDED	18	#18/2, RED JACKET (FIRE UNDERGROUND RATED)	SIGNAL LINE CIRCUIT (SLC) - UNDERGROUND
B	2	SOLID	16	#16/2, RED JACKET, FPLP	SBUS
Bu	2	STRANDED	16	#16 THWN RED(+) BLACK(-) JACKET (FIRE UNDERGROUND RATED)	SBUS - UNDERGROUND
V	2	SOLID	16	#16/2 -OVERALL SHIELDED CLASS 2 CABLE	VOICE BUS CIRCUIT
Vu	2	STRANDED	16	#16/2 -OVERALL SHIELDED C2 CABLE (UNDERGROUND RATE)	VOICE BUS CIRCUIT - UNDERGROUND
N	2	SOLID STRANDED	12	#12/2, RED JACKET, FPLP #12, THWN, RED (+) BLACK (-) WHEN USED IN CONDUIT	NOTIFICATION APPLIANCE CIRCUIT
Nu	2	STRANDED	12	#12 THHN, THWN RED(+) BLACK(-) (FIRE UNDERGROUND RATED)	NOTIFICATION APPLIANCE CKT.-UNDERGROUND
S	2	STRANDED	16	#16/2 -OVERALL SHIELDED CLASS 2 CABLE	SPEAKER CIRCUIT
Su	2	STRANDED	16	#16/2 -OVERALL SHIELDED C2 CABLE (UNDERGROUND RATE)	SPEAKER CIRCUIT - UNDERGROUND

NOTES:

1. ALL FIRE ALARM WIRING SHALL BE CLASS "B", STYLE "Y" UNLESS OTHERWISE NOTED.

DEMOLITION NOTES

1. THE EXISTING FIRE ALARM SYSTEM TO INCLUDE ALL ASSOCIATED CONTROL PANELS, POWER SUPPLIES, INTERIOR DETECTION DEVICES AND BOTH INTERIOR AND EXTERIOR NOTIFICATION APPLIANCES ARE TO BE COMPLETELY DECOMMISSIONED AND REMOVED.
2. THE EXISTING CONDUIT AND RACEWAY SYSTEMS ARE TO REMAIN FOR USE WITH THE NEW FIRE ALARM SYSTEM.
3. FIELD VERIFY ALL EXISTING FIRE ALARM CONDUIT AND RACEWAY SYSTEMS FOR SERVICEABILITY. REMOVE AND REPLACE ALL CONDUIT OR RACEWAYS THAT ARE NOT SERVICEABLE OR ARE DAMAGED.
4. THE EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERABLE DURING CONSTRUCTION AND PHASED OUT AS CONSTRUCTION PROGRESSES.
5. DETAILS WILL BE COORDINATED AND IMPLEMENTED INTO THE FIR PREVENTION AND SAFETY PLAN PROVIDED BY THE OWNER.

FIRE ALARM SCOPE OF WORK

1. INSTALL A NEW AUTOMATIC EMERGENCY VOICE/FIRE ALARM COMMUNICATION SYSTEM IN ACCORDANCE WITH NFPA 72, CBC §907, CFC §907.2.3, DSA GL-2 (REV 8/10/18), IR 9-1 (REV 2/19/20), IR 9-2 (7/27/21), CMC §609.1 AND THE AUTHORITY HAVING JURISDICTION.

FIRE ALARM SYSTEM APPLICABLE CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
NFPA 13 STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) 2022 EDITION.
NFPA 14 STANDARD FOR INSTALLATION OF STANDPIP AND HOSE SYSTEMS (CA AMENDED) 2019 EDITION.
NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2021 EDITION.
NFPA 17A STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2021 EDITION.
NFPA 20 STANDARD FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2022 EDITION.
NFPA 22 STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2023 EDITION.
NFPA 24 STANDARD FOR INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) 2022 EDITION.
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2022 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES, (CA AMENDED) 2019 EDITION.
NFPA 170 STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS. (CA AMENDED) 2018 EDITION.
NFPA 2001 STANDARD FOR CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) 2018 EDITION.
UL300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010) REVISED EDITION.
UL464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS INCLUDING ACCESSORIES (CA AMENDED) 2003 EDITION.
UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS. (CA AMENDED) 1999 EDITION.
UL1971 STANDARD FOR SIGNALING DEVICES FOR HEARING IMPAIRED 2024 REVISED EDITION.
ICC300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS 2017 EDITION.

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

FIRE ALARM REQUIREMENTS

THE CONTRACTOR SHALL PROVIDE AND SUBMIT THE FIRE ALARM SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE FIRE ALARM SYSTEM. SUBMITTAL SHALL CONTAIN THE FOLLOWING:

A. SHOP DRAWINGS: COMPLETE 1/8" MINIMUM SCALE FLOOR PLANS SHOWING ALL DEVICES, APPLIANCES, COMPONENTS, CONDUIT AND WIRING INDICATING A COMPLETE AND OPERABLE SYSTEM AS DESIGNED AND SPECIFIED. REPRODUCED COPIES OF THE BID SET OF FIRE ALARM PLANS ARE NOT ACCEPTABLE AS SHOP DRAWINGS. SHOP DRAWINGS MUST ALSO INDICATE DEVICE MOUNTING HEIGHTS, ROOM NAMES AND NUMBER AND LOCATIONS OF ALL FIRE RATED WALLS.
B. ELECTRICAL CONTRACTOR'S AND FIRE ALARM SYSTEM INSTALLERS NAME, ADDRESS, PHONE NUMBER AND C-10 LICENSE NUMBER.
C. LIST OF SYSTEM COMPONENTS, EQUIPMENT AND DEVICES, INCLUDING MANUFACTURE'S MODEL NUMBER(S) AND CALIFORNIA STATE FIRE MARSHALL LISTING NUMBER(S).
D. ORIGINAL COPIES OF MANUFACTURE'S SPECIFICATION SHEETS FOR ALL EQUIPMENT AND DEVICES AS INDICATED.
E. VOLTAGE DROP CALCULATIONS TO INCLUDE THE FOLLOWING:

(a) POINT-TO-POINT OR OHMS LAW CALCULATIONS
(b) IDENTIFICATION OF THE ZONE OR CIRCUIT IN CALCULATIONS
(c) VOLTAGE DROP PERCENTAGE (NOT TO EXCEED THE LISTED MANUFACTURE'S OPERATING VOLTAGE RANGES)
(d) NOTE OF CIRCUIT NUMBER FOR WORST CASE CALCULATION

F. BATTERY TYPE(S), AMP HOURS AND CALCULATIONS. INCLUDE THE FOLLOWING:

1. NORMAL OPERATION: 100% OF APPLICABLE DEVICES FOR 24 HOURS = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY. (I.E.: ZONE MODULES, DETECTORS AND OTHER IDENTIFIED DEVICES.
2. ALARM CONDITION: 100% OF THE APPLICABLE DEVICES FOR 15 MINUTES = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING ALARM. (I.E.: ZONE MODULES, SIGNAL MODULES, DETECTORS, SIGNAL DEVICES, ANNUNCIATORS, AMPLIFIERS AND OTHER IDENTIFIED DEVICES)
3. NORMAL OPERATION + ALARM OPERATION

a. TOTAL AMP HOURS REQUIRED.
b. TOTAL AMP HOURS PROVIDED.

FIRE WATCH NOTE

A FIRE PREVENTION AND SAFETY PLAN SHALL BE THE RESPONSIBILITY OF THE OWNER OR OWNER'S AUTHORIZED AGENT FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION OF ALL PHASES OF THE PROJECT FROM START TO ACCEPTANCE. (REFERENCE CFC §3301.1 THRU §3303.10) THE FIRE CODE OFFICIAL OR THE LOCAL AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED IMMEDIATELY WHENEVER THE FIRE PROTECTION / ALARM SYSTEM IS OUT OF SERVICE. A FIRE WATCH SHALL BE PROVIDED WITH NO LESS THAN ONE (1) MEANS FOR NOTIFICATION OF THE FIRE DEPARTMENT AND PERFORM CONSTANT PATROLS OF THE PROTECTED PREMISES IN ACCORDANCE WITH DSA IR F-2 AND CFC §901.7.

FIRE ALARM SYSTEM ABBREVIATIONS

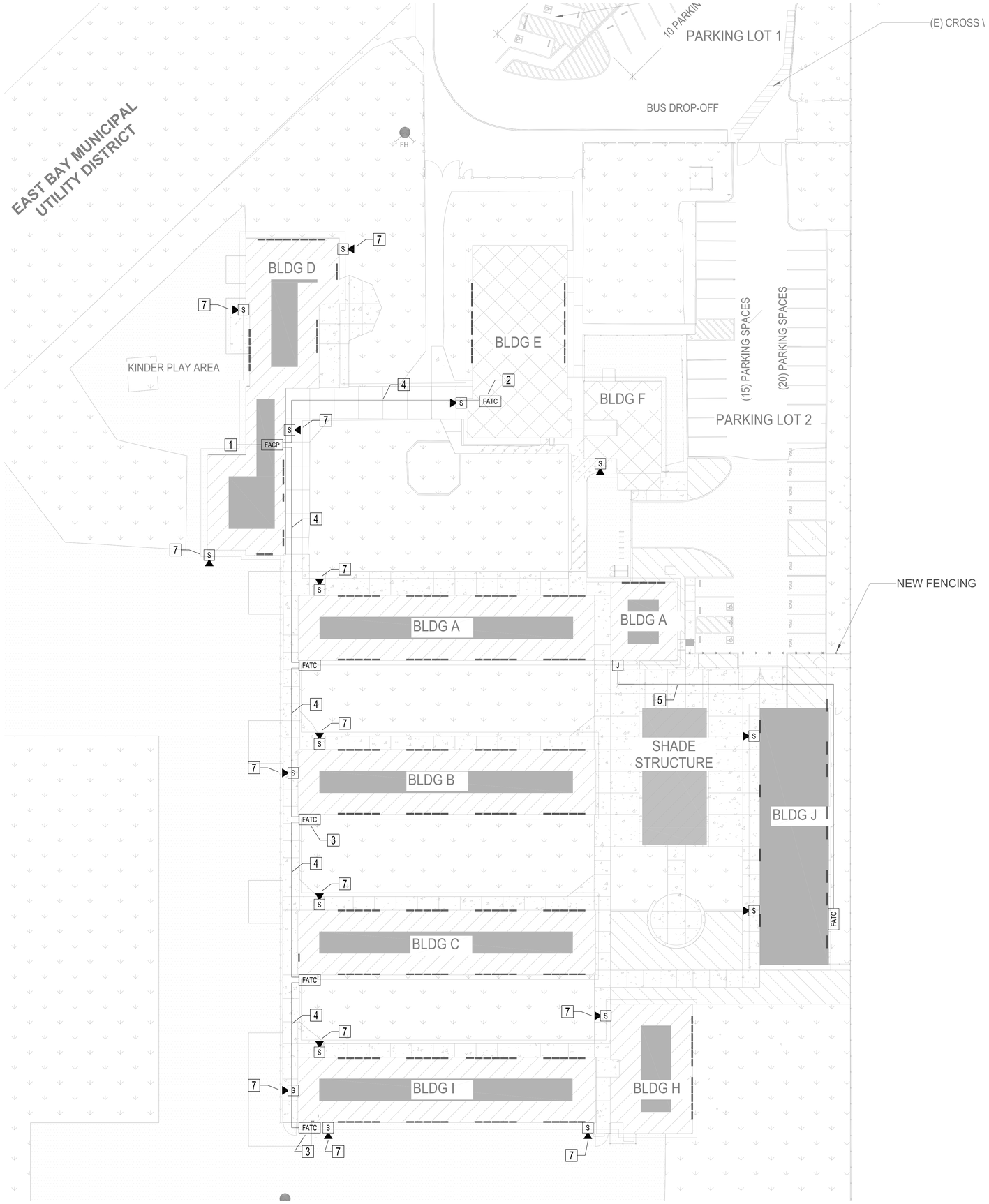
ABBREVIATION	DESCRIPTION
A	ATTIC
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
ARCH.	ARCHITECT; ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
C	CEILING
CFC	CALIFORNIA FIRE CODE
CKT	CIRCUIT
C.O.	CONDUIT ONLY WITH PULL WIRE
CU	COPPER
DWG	DRAWING
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING
FA	FIRE ALARM
FLR	FLOOR
FT	FEET
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
(N)	NEW
NIC	NOT IN CONTRACT
PNL	PANEL
(R)	REMOVE or REPLACE or RELOCATE
REQ'D	REQUIRED
SF	SQUARE FEET
SHT	SHEET
SW	SWITCH
TYP	TYPICAL
UG	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF

FIRE ALARM SHEET INDEX

SHEET #	SHEET DESCRIPTION
FA0.0	FIRE ALARM COVER SHEET
FA1.0	FIRE ALARM SITE PLAN
FA1.1	FIRE ALARM FLOOR PLAN - BUILDINGS D, E & F
FA1.2	FIRE ALARM FLOOR PLAN - BUILDINGS A, B & C
FA1.3	FIRE ALARM FLOOR PLAN - BUILDINGS I, H & NEW MODULAR
FA2.0	FIRE ALARM RISER DIAGRAM
FA3.0	FIRE ALARM CALCULATIONS
FA4.0	FIRE ALARM DETAILS
FA4.1	FIRE ALARM DETAILS

FIRE ALARM GENERAL NOTES

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 THE 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 5 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.
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 THE SAME VIEW OF 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 FPLR 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 7.8.2(a).
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 907.6.6.
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.
27. THE AUDIBLE CARBON MONOXIDE ALARM SIGNAL SHALL BE A FOUR-PULSE TEMPORAL PATTER AND COMPLY WITH THE FOLLOWING:
    (1) SIGNALS SHALL BE A PATTER CONSISTING OF FOUR CYCLES OF 100 MILLISECONDS +/- 10 PERCENT "ON" AND 100 MILLISECONDS +/- 10 PERCENT "OFF",
    (2) AFTER THE INITIAL 4 MINUTES OF ALARM, THE 5-SECOND "OFF" TIME SHALL BE PERMITTED TO BE CHANGED TO 60 SECONDS +/- 10 PERCENT.
    (3) THE ALARM SIGNAL SHALL BE REPEATED IN COMPLIANCE WITH 5,8,6,5.1(1) AND 5,8,6,5.1(2) UNTIL THE ALARM RESETS OR THE ALARM SIGNAL IS MANUALLY SILENCED.
28. A CARBON MONOXIDE ALARM SIGNAL SHALL TAKE PRECEDENCE OVER SUPERVISORY OR TROUBLE SIGNALS. (NFPA 72, 26,2,4.1) THE ACTUATION OF A CARBON MONOXIDE DETECTOR OR SYSTEM SHALL BE DISTINCTIVELY INDICATED AS A CARBON MONOXIDE ALARM SIGNAL, (NFPA 72, 26,2,4,1,2)
29. ALL EQUIPMENT SHALL BE NEW, UNDERWRITERS LABORATORY AND CALIFORNIA STATE FIRE MARSHAL LISTED.
30. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE SERVICING, TROUBLESHOOTING, ETC.
31. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
32. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES, AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY MECHANICAL CONTRACTOR IN ACCORDANCE WITH CMC §608,
33. ALL DUCT SMOKE DETECTORS SHALL BE MOUNTED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTORS EXPOSED TO THE WEATHER SHALL BE WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR, ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.
34. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE



1 FIRE ALARM SITE PLAN
SCALE: 1" = 20'-0"

FIRE ALARM SHEET NOTES

1. LOCATION OF EXISTING FIRE ALARM CONTROL PANEL. INSTALL NEW EMERGENCY VOICE/FIRE ALARM CONTROL PANEL IN SAME LOCATION.
2. LOCATION OF EXISTING NOTIFICATION POWER SUPPLY. INSTALL NEW NOTIFICATION POWER SUPPLY AND CONTROLS IN THE SAME LOCATION.
3. LOCATION OF NEW FIRE ALARM TERMINAL CABINET.
4. INSTALL NEW FIRE ALARM WIRING IN EXISTING ABOVE WALKWAY CONDUIT PATHWAY SYSTEM. FIELD VERIFY CONDITION OF CONDUIT SYSTEM PRIOR TO ROUGH IN AND REPLACE DAMAGED OR UNSERVICEABLE CONDUIT.
5. NEW 2" CONDUIT FOR FIRE ALARM. PROVIDE ONE EACH #18/2 AND #16/2 UNDERGROUND SLC AND SPEAKER CIRCUIT CABLES TO PORTABLE FIRE ALARM POWER SUPPLY.
6. PATHWAY BETWEEN BUILDINGS. FIELD VERIFY CONDITION AND SERVICEABILITY OF CONDUIT PRIOR TO ROUGH IN.
7. NEW EXTERIOR WEATHER PROOF NOTIFICATION APPLIANCE. REFERENCE FIRE ALARM FLOOR PLAN SHEETS FOR EXACT LOCATIONS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

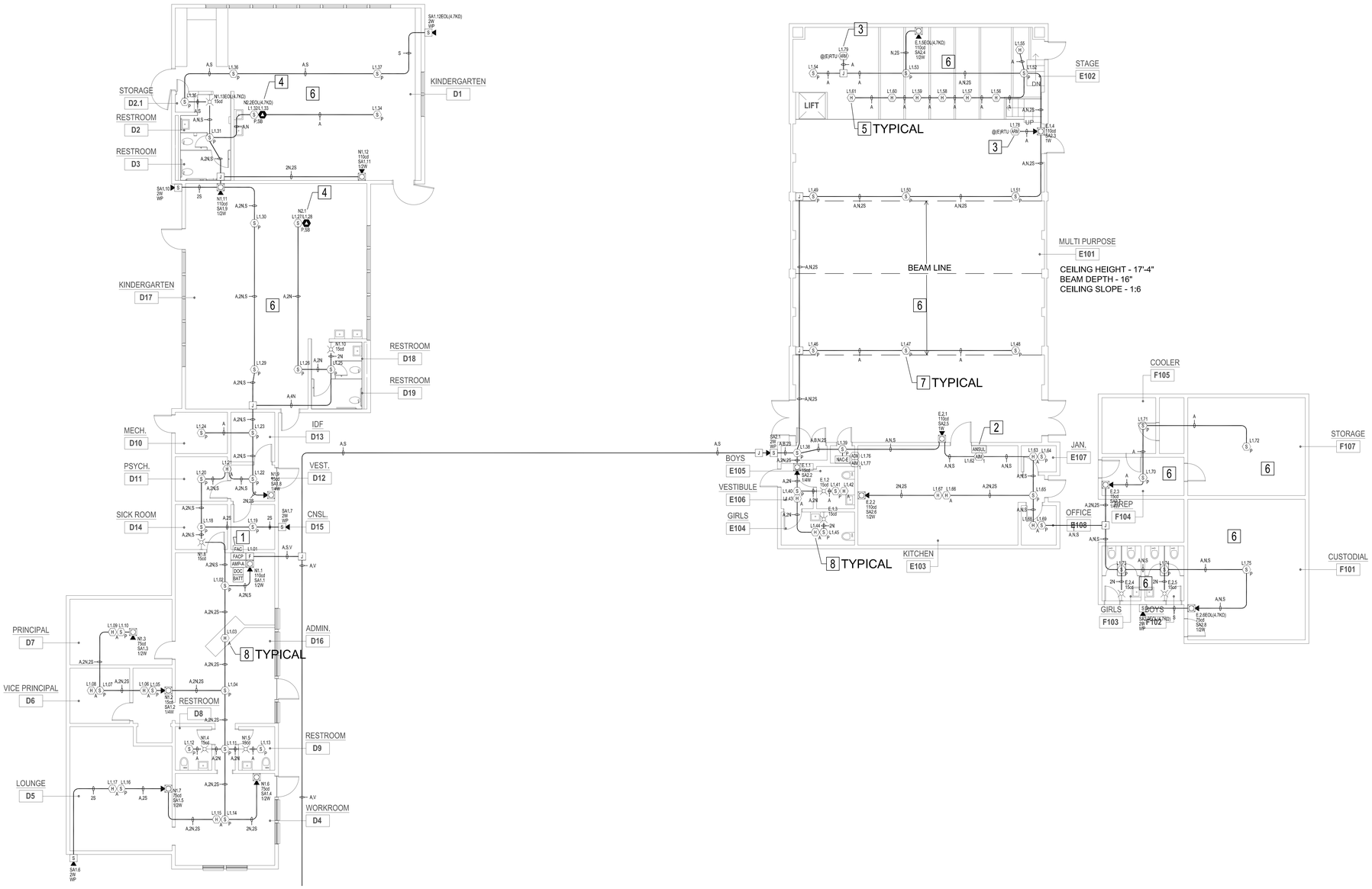
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
23021?
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

FIRE ALARM SITE PLAN

This document is for plan review only

FA1.0



FIRE ALARM SHEET NOTES

1	INSTALL NEW EMERGENCY VOICE/FIRE ALARM COMMUNICATION CONTROL PANEL, AMPLIFIER, BATTERY CABINET, CELLULAR COMMUNICATOR, DOCUMENT BOX AND MANUAL PULL STATION IN THIS LOCATION. PROVIDE RED LOCK-ON BREAKER FOR FIRE ALARM EQUIPMENT.
2	INSTALL MONITOR MODULE TO MONITOR EXISTING HOOD EXTINGUISHING SYSTEM. EXISTING EXTINGUISHING SYSTEM IS TO REMAIN AS CURRENTLY CONFIGURED AND IS NOT IN THIS SCOPE OF WORK.
3	INSTALL RELAY MODULE FOR HVAC UNIT SHUT DOWN. SHUT DOWN TO BE ACTUATED IN ACCORDANCE WITH CMC §609.1 EXCEPTION (1).
4	INSTALL SMOKE/CARBON MONOXIDE DETECTION IN CLASSROOMS WITH FUEL BURNING APPLIANCES IN ACCORDANCE WITH CFC §912.2.3.
5	INSTALL HEAT DETECTION IN THE BELOW STAGE STORAGE SPACES. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ACCESS HATCHES WHERE INACCESSIBLE SPACES EXIST.
6	THIS AREA CEILING IS ATTACHED DIRECTLY TO THE UNDERSIDE OF THE ROOF STRUCTURE AND SMOKE OR HEAT DETECTION IS TO BE INSTALLED ON THE CEILING ONLY. (REFERENCE CFC §907.2.3.6.1)
7	INSTALL SMOKE DETECTION IN MULTI-PURPOSE ROOM IN ACCORDANCE WITH NFPA 72, 17.7.4.2.4.3 (5) AND 17.7.4.2.4.
8	INSTALL HEAT DETECTION IN ABOVE CEILING SPACES.

1 FIRE ALARM FLOOR PLAN - BUILDINGS D, E & F
SCALE: 1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

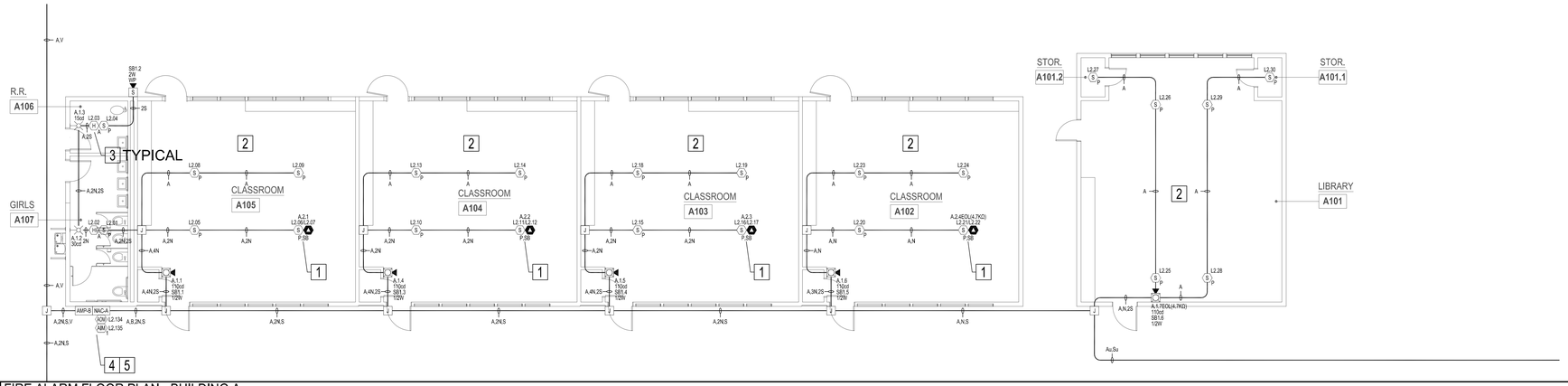
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

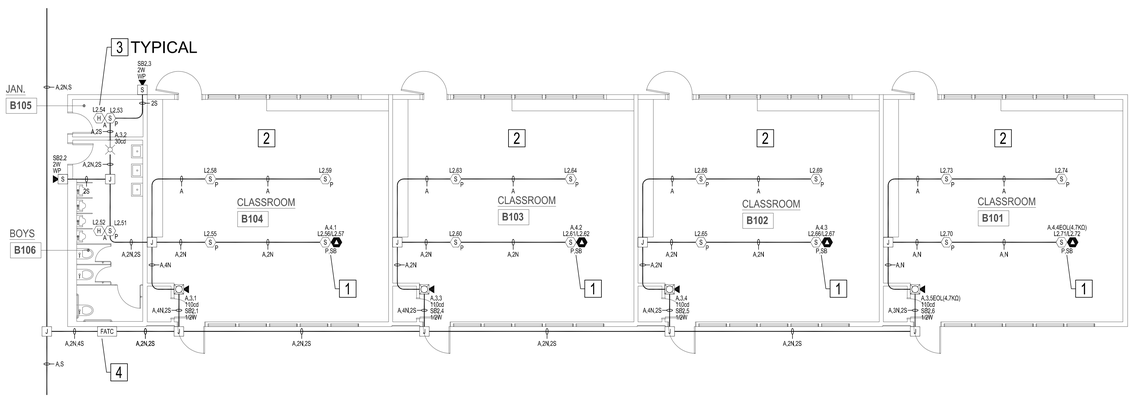
This document is for plan review only

FIRE ALARM FLOOR PLAN BUILDINGS D, E & F

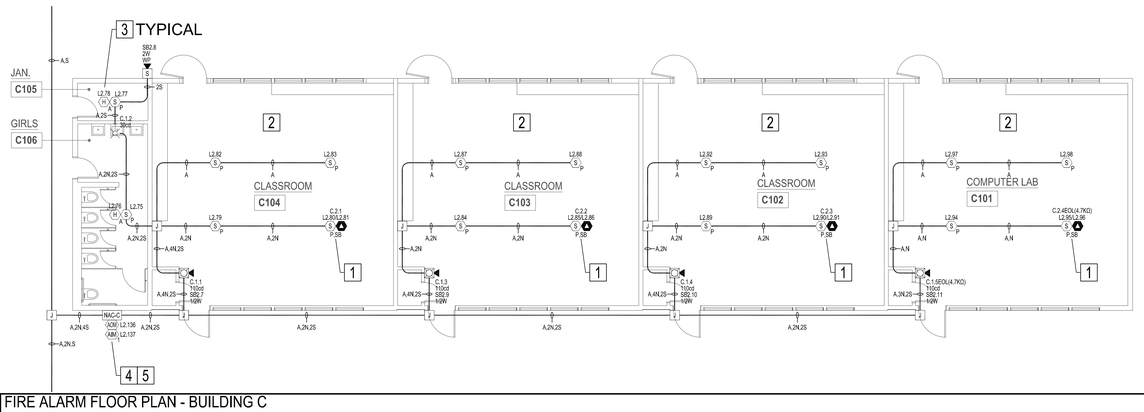
FA1.1



1 FIRE ALARM FLOOR PLAN - BUILDING A
SCALE: 1/8" = 1'-0"



2 FIRE ALARM FLOOR PLAN - BUILDING B
SCALE: 1/8" = 1'-0"



3 FIRE ALARM FLOOR PLAN - BUILDING C
SCALE: 1/8" = 1'-0"

FIRE ALARM SHEET NOTES

1. INSTALL SMOKE/CARBON MONOXIDE DETECTION IN CLASSROOMS WITH FUEL BURNING APPLIANCES IN ACCORDANCE WITH CFC §912.2.3.
2. THIS AREA CEILING IS ATTACHED DIRECTLY TO THE UNDERSIDE OF THE ROOF STRUCTURE AND SMOKE OR HEAT DETECTION IS TO BE INSTALLED ON THE CEILING ONLY. (REFERENCE CFC §907.2.3.6.1)
3. INSTALL HEAT DETECTION IN ABOVE CEILING SPACES.
4. INSTALL STI-7550 NEMA ENCLOSURE AT NEW AMPLIFIER, NOTIFICATION POWER SUPPLY AND FATC LOCATIONS.
5. INSTALL MONITOR AND CONTROL MODULE IN POWER SUPPLY ENCLOSURE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MISSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

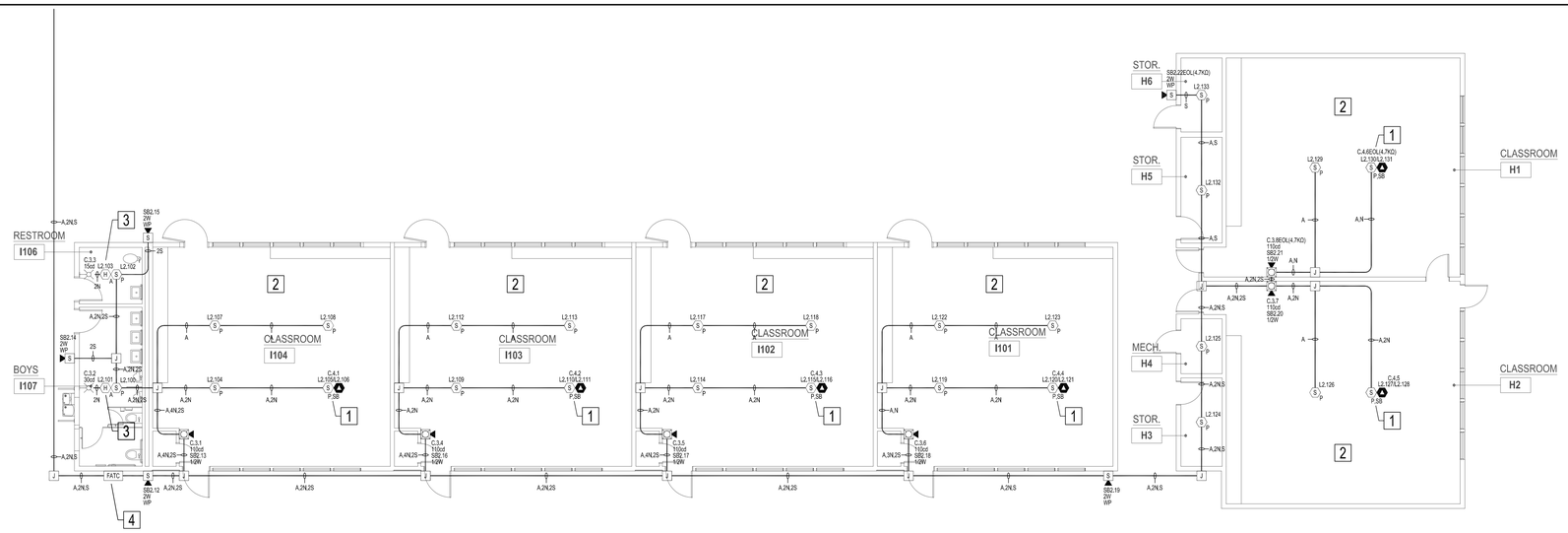
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

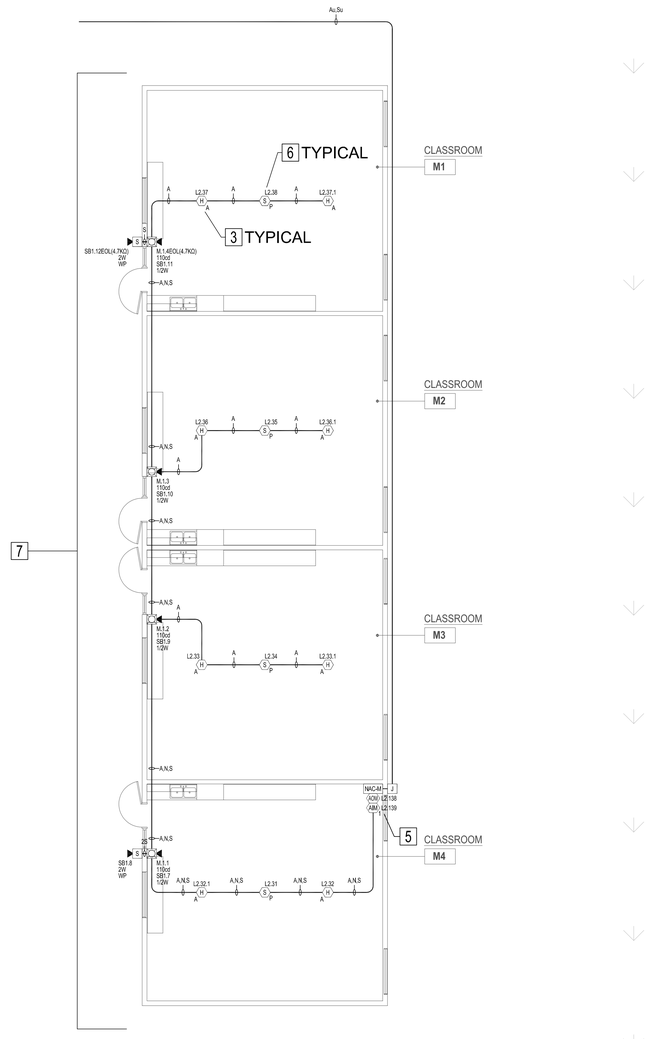
FIRE ALARM FLOOR PLAN BUILDINGS A, B & C

This document is for plan review only

FA1.2



1 FIRE ALARM FLOOR PLAN - BUILDINGS I & H
SCALE: 1/8" = 1'-0"



2 FIRE ALARM FLOOR PLAN - (N) MODULAR CLASSROOM BUILDING
SCALE: 1/8" = 1'-0"

FIRE ALARM SHEET NOTES

1. INSTALL SMOKE/CARBON MONOXIDE DETECTION IN CLASSROOMS WITH FUEL BURNING APPLIANCES IN ACCORDANCE WITH CFC §912.2.3.
2. THIS AREA CEILING IS ATTACHED DIRECTLY TO THE UNDERSIDE OF THE ROOF STRUCTURE AND SMOKE OR HEAT DETECTION IS TO BE INSTALLED ON THE CEILING ONLY. (REFERENCE CFC §907.2.3.6.1)
3. INSTALL HEAT DETECTION IN ABOVE CEILING SPACES.
4. INSTALL STI-7550 NEMA ENCLOSURE AT NEW AMPLIFIER, NOTIFICATION POWER SUPPLY AND FATC LOCATIONS.
5. INSTALL MONITOR AND CONTROL MODULE IN POWER SUPPLY ENCLOSURE.
6. INSTALL SINGLE SMOKE DETECTOR IN MODULAR CLASSROOM IN ACCORDANCE WITH NFPA 72, 17.6.3.1.1*(2).
7. FIRE ALARM INTERIOR CIRCUITS IN THIS BUILDING MAY BE RAN EXPOSED "FREE AIRED" AND INSTALLED IN ACCORDANCE WITH NFPA 70, CEC AND THE AUTHORITY HAVING JURISDICTION. (REFERENCE GENERAL NOTE #18 ON SHEET FA0.0)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MISSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

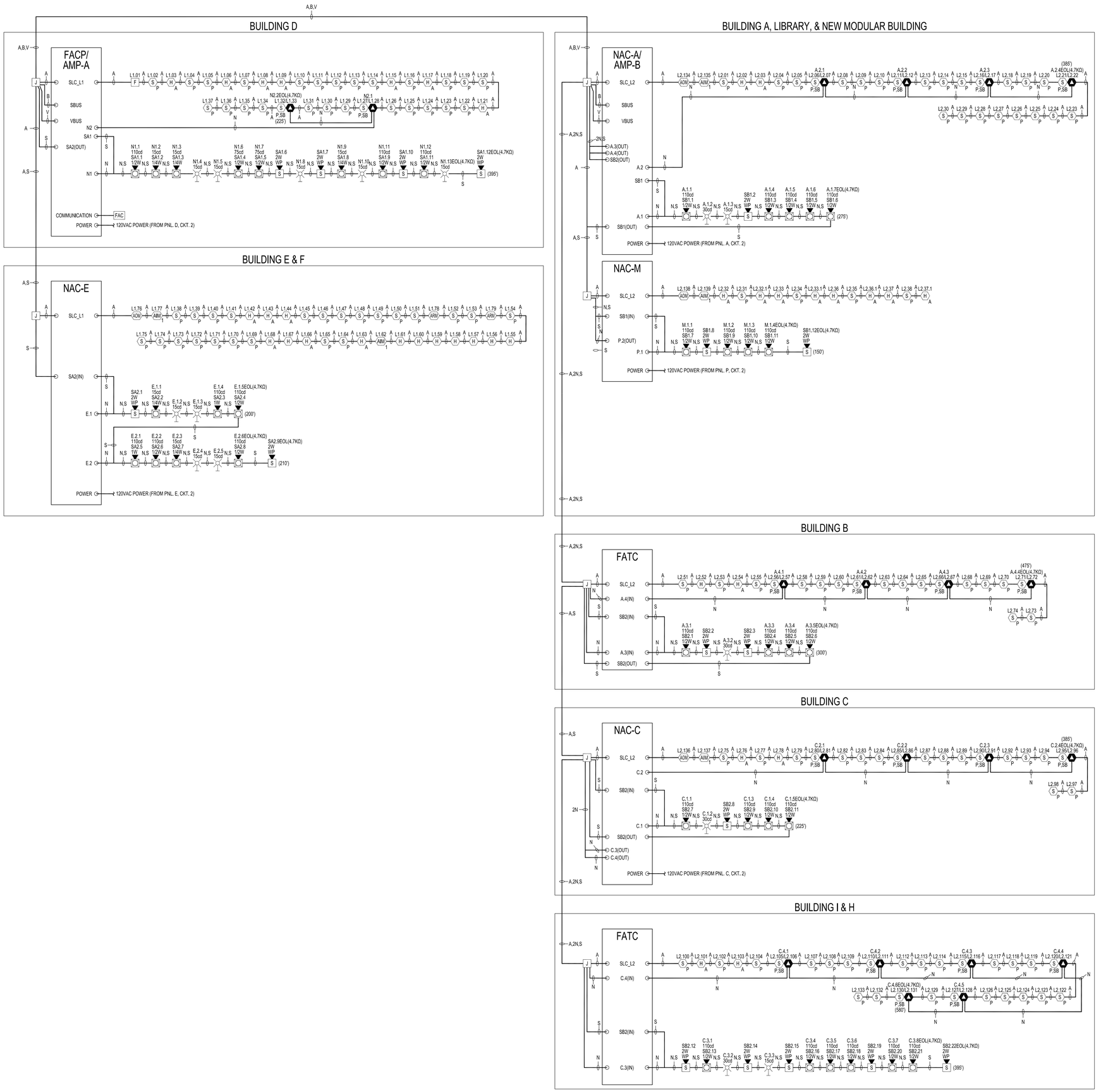
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

FIRE ALARM FLOOR PLAN BUILDINGS I, H & NEW MODULAR

FA1.3



1 FIRE ALARM RISER DIAGRAM
SCALE: NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
LEAF ENGINEERS
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN
D E F A B C I H

REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

FIRE ALARM RISER DIAGRAM

FA2.0

E-3 FACP
BATTERY CALCULATIONS FOR 24 HOUR STANDBY

(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
E-3	E-3 SERIES FACP/EVAC	1	0.11100	0.11100	0.24300	0.24300
DACT-E3	DIGITAL COMMUNICATION CARD	1	0.01800	0.01800	0.01800	0.01800
LCD-SLP	LCD KEYPAD DISPLAY	1	0.03000	0.03000	0.06500	0.06500
ILIMB-E3	INTELLIGENT LOOP INTERFACE-MAIN BOARD	1	0.15000	0.15000	0.15000	0.15000
ILI-S-E3	INTELLIGENT LOOP INTERFACE-EXPANSION BOARD	1	0.15000	0.15000	0.15000	0.15000
ANU-48	LED DRIVER MODULE	1	0.00300	0.00300	0.05000	0.05000
ASM-16	ADDRESSABLE SWITCH MODULE	1	0.01100	0.01100	0.15500	0.15500
PM-9	POWER SUPPLY	1	0.00030	0.00030	0.05000	0.05000
AMM-4F	SINGLE ADDRESSABLE INPUT MODULE	5	0.00038	0.00188	0.00500	0.02500
AOM-2RF	ADDRESSABLE RELAY MODULE	2	0.00038	0.00075	0.00255	0.00510
AOM-2SF	ADDRESSABLE CONTROL MODULE	4	0.00375	0.01500	0.00650	0.02600
ASD-PL3	ADDRESSABLE SMOKE DETECTOR	120	0.00020	0.02400	0.00020	0.02400
MCS-COF3	ADDRESSABLE SMOKE/CO DETECTOR	20	0.00020	0.00400	0.20000	4.00000
ATD-L3H	ADDRESSABLE HEAT DETECTOR	31	0.00020	0.00620	0.20000	6.20000
MS-7AF	ADDRESSABLE DOUBLE ACTION PULL STATION	1	0.00030	0.00030	0.00300	0.00300
B200S-WH	ADDRESSABLE SOUNDER BASE	20	0.00005	0.00100	0.03500	0.70000
HFP24S8	8 AMP NOTIFICATION POWER SUPPLY	4	0.09100	0.36400	0.14500	0.58000
AM-50/70	50 WATT AMPLIFIER	2	0.08900	0.17200	2.20000	4.40000
INI-VGX	INTELLIGENT INTERFACE VOICE GATEWAY	2	0.15000	0.30000	0.15000	0.30000
			PANEL TOTALS	1.362		17.144
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	FIELD NOTIFICATION APPLIANCE CIRCUITS					
N1	NOTIFICATION APPLIANCE CIRCUIT -N1	1	0.000	0.000	0.959	0.959
N2	NOTIFICATION APPLIANCE CIRCUIT -N2	1	0.000	0.000	0.070	0.070
			NAC TOTALS	0.000		1.029
			OVERALL TOTALS	1.362		18.173

TOTAL ALARM AMPS 18.173 X 15 MINS= 4.543
TOTAL STANDBY AMPS 1.362 X 24 HOURS= 32.698
5 MINS = 0.083 TOTAL AMP HOURS REQUIRED= 37.241
15 MINS = 0.250 RECOMMENDED MINIMUM BATTERY SIZE= 55.0 AMP HOURS
LESS 25% DERATING FACTOR= 41.3 AMP HOURS
SPARE AMP HOURS 4.0 AMP HOURS

NOTIFICATION CIRCUIT - N1 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	2					0.043	0.086	
SPSRL-75	WALL SPKR/STROBE @ 75cd	2					0.107	0.214	
SPSRL-110	WALL SPKR/STROBE @ 110cd	3					0.148	0.444	
SRL-15	WALL STROBE @ 15cd	5					0.043	0.215	
				395		1.525		0.959	1.462

TOTAL AMPS: 0.959 TOTAL % DROP: 7.17% TOTAL V-DROP: 1.462

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 18.94 VDC

NOTIFICATION CIRCUIT - N2 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
B200S-WH	SOUNDER BASE	2					0.035	0.070	
				225		0.869		0.070	0.061

TOTAL AMPS: 0.07 TOTAL % DROP: 0.30% TOTAL V-DROP: 0.061

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 20.34 VDC

HW-TG7FS-A FAC
BATTERY CALCULATIONS FOR 24 HOUR STANDBY

(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
HW-TG7FS-A	CELLULAR COMMUNICATOR	1	0.06000	0.06000	0.25000	0.25000
			PANEL TOTALS	0.060		0.250
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	FIELD NOTIFICATION APPLIANCE CIRCUITS					
			NAC TOTALS	0.000		0.000
			OVERALL TOTALS	0.060		0.250

TOTAL ALARM AMPS 0.250 X 15 MINS= 0.063
TOTAL STANDBY AMPS 0.060 X 24 HOURS= 1.440
5 MINS = 0.083 TOTAL AMP HOURS REQUIRED= 1.503
15 MINS = 0.250 RECOMMENDED MINIMUM BATTERY SIZE= 7.0 AMP HOURS
LESS 25% DERATING FACTOR= 5.3 AMP HOURS
SPARE AMP HOURS 3.7 AMP HOURS

FIRE ALARM FUNDAMENTAL OF DESIGN: CALCULATIONS

AS STATED IN NFPA 72, CHAPTER 10.3.5: EQUIPMENT SHALL BE DESIGNED SO THAT IT IS CAPABLE OF PERFORMING ITS INTENDED FUNCTIONS UNDER THE FOLLOWING CONDITIONS:

(1) *AT 85 PERCENT AND AT 110 PERCENT OF THE NAMEPLATE PRIMARY (MAIN) AND SECONDARY (STANDBY) INPUT VOLTAGE(S)
(2) AT AMBIENT TEMPERATURES OF 32°F (0°C) AND 120°F (49°C)
(3) AT A RELATIVE HUMIDITY OF 85 PERCENT AND AN AMBIENT TEMPERATURE OF 86°F (30°C)

AS PER THE MANUFACTURE, THE FIRE ALARM CONTROL PANEL'S LISTED VOLTAGE IS 24VDC. THE OPERATING VOLTAGE RANGES FROM 20.4VDC TO 26.4VDC.

WHERE BACK-UP BATTERIES ARE USED, THE BATTERY CALCULATIONS ARE BASED ON A BACK-UP POWER (BATTERY) THAT DERATED BY 20%.

EXAMPLE:

BATTERY POWER (24VDC) X 85% = DERATING FACTOR (STARTING VOLTAGE)

24VDC X .85 = 20.4VDC

AS PER UL864, 10TH EDITION, THE NOTIFICATION APPLIANCES MUST OPERATE BETWEEN 16VDC AND 33VDC AND STATES THAT THE END OF LINE VOLTAGE FOR A NOTIFICATION APPLIANCE CIRCUIT MUST BE NOT LESS THAN 16VDC (MANUFACTURE'S UL LISTED OPERATING VOLTAGE). THUS ALL NOTIFICATION APPLIANCE CIRCUITS ARE CALCULATED WITH A 20% DERATED FACTOR AND THE STARTING VOLTAGE IN 20.4VDC. ALTHOUGH THE PERCENTAGE OF VOLTAGE DROP MAY VARY, ALL NOTIFICATION APPLIANCE CIRCUITS AND BATTERY CALCULATIONS MUST AND WILL CONFIRM TO THIS STANDARD.

FIRE ALARM CALCULATION NOTES:

1. INSTALL TWO 12VDC, 55Ah BATTERIES IN BATTERY ENCLOSURE FOR FACP.
2. INSTALL TWO, 12VDC, 12Ah BATTERIES IN EACH AMPLIFIER ENCLOSURE.
3. INSTALL TWO, 12VDC, 7Ah BATTERIES IN NAC POWER SUPPLY ENCLOSURES.
4. INSTALL ONE, 12VDC, 7Ah BATTERY IN FAC ENCLOSURE. (MANUFACTURER RECOMMENDED BATTERY SIZE AS PER INSTALLATION MANUAL)

Global Project Values:
Project Name: DAVIS ES
Project ID: 230217
Prepared By: C. YANEZ
Date: 9/26/2023
Standby Hours: 24
Alarm Mins: 15
Derating: 1.25

Panel ID: AMP-A
Location: ADMIN OFFICE
Model: AM-50/70 Audio Amplifier

Ckt.#	Circuit Name	Qty	Current Draw Standby	Alarm
SA1	SPKR CKT A1	1	0.086	2.200
SA2	SPKR CKT A2	1	0.100	2.200
			0.000	0.000
Watts	Enter Number of Watts	19	0.000	0.855
	Total Standby Current (AMPS):		0.186	5.255
	Standby Time In Hours		24	0.250
	Total Standby AH Required		4.464	1.314
	Total Combined AH Required		5.78	
	Multiply By The Derating Factor		1.25	
	Minimum Battery AmpHours Required		7.22	

Global Project Values:
Project Name: DAVIS ES
Project ID: 230217
Prepared By: C. YANEZ
Date: 6/6/2024
Standby Hours: 24
Alarm Mins: 15
Derating: 1.25

Panel ID: AMP-B
Location: BLDG. A
Model: AM-50/70 Audio Amplifier

Ckt.#	Circuit Name	Qty	Current Draw Standby	Alarm
SB1	SPKR CKT 1	1	0.086	2.200
SB2	SPKR CKT 2	1	0.086	2.200
			0.000	0.000
Watts	Enter Number of Watts	375	0.000	1.688
	Total Standby Current (AMPS):		0.172	6.088
	Standby Time In Hours		24	0.250
	Total Standby AH Required		4.128	1.522
	Total Combined AH Required		5.65	
	Multiply By The Derating Factor		1.25	
	Minimum Battery AmpHours Required		7.06	

HFP24S8 NAC-A
BATTERY CALCULATIONS FOR 24 HOUR STANDBY

(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
HFP24S8	8 AMP NOTIFICATION POWER SUPPLY	1	0.09100	0.09100	0.14500	0.14500
			PANEL TOTALS	0.091		0.145
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	FIELD NOTIFICATION APPLIANCE CIRCUITS					
N1	NOTIFICATION APPLIANCE CIRCUIT -A.1	1	0.000	0.000	0.846	0.846
N2	NOTIFICATION APPLIANCE CIRCUIT -A.2	1	0.000	0.000	0.140	0.140
N3	NOTIFICATION APPLIANCE CIRCUIT -A.3	1	0.000	0.000	0.655	0.655
N4	NOTIFICATION APPLIANCE CIRCUIT -A.4	1	0.000	0.000	0.140	0.140
			NAC TOTALS	0.000		1.781
			OVERALL TOTALS	0.091		1.926

TOTAL ALARM AMPS 1.926 X 15 MINS= 0.482
TOTAL STANDBY AMPS 0.091 X 24 HOURS= 2.184
5 MINS = 0.083 TOTAL AMP HOURS REQUIRED= 2.666
15 MINS = 0.250 RECOMMENDED MINIMUM BATTERY SIZE= 7.0 AMP HOURS
LESS 25% DERATING FACTOR= 5.3 AMP HOURS
SPARE AMP HOURS 2.6 AMP HOURS

NOTIFICATION CIRCUIT - A.1 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-110	WALL SPKR/STROBE @ 110cd	5					0.148	0.740	
SRL-15	WALL STROBE @ 15cd	1					0.043	0.043	
SRL-30	WALL STROBE @ 30cd	1					0.063	0.063	
				275		1.062		0.846	0.898

TOTAL AMPS: 0.846 TOTAL % DROP: 4.40% TOTAL V-DROP: 0.898

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.50 VDC

NOTIFICATION CIRCUIT - A.2 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
B200S-WH	SOUNDER BASE	4					0.035	0.140	
				385		1.486		0.140	0.208

TOTAL AMPS: 0.14 TOTAL % DROP: 1.02% TOTAL V-DROP: 0.208

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 20.19 VDC

NOTIFICATION CIRCUIT - A.3 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-110	WALL SPKR/STROBE @ 110cd	4					0.148	0.592	
SRL-30	WALL STROBE @ 30cd	1					0.063	0.063	
				300		1.158		0.655	0.758

TOTAL AMPS: 0.655 TOTAL % DROP: 3.72% TOTAL V-DROP: 0.758

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.64 VDC

NOTIFICATION CIRCUIT - A.4 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
B200S-WH	SOUNDER BASE	4					0.035	0.140	
				475		1.834		0.140	0.257

TOTAL AMPS: 0.14 TOTAL % DROP: 1.26% TOTAL V-DROP: 0.257

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 20.14 VDC

HFP24S8 NAC-E
BATTERY CALCULATIONS FOR 24 HOUR STANDBY

(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
HFP24S8	8 AMP NOTIFICATION POWER SUPPLY	1	0.09100	0.09100	0.14500	0.14500
			PANEL TOTALS	0.091		0.145
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	FIELD NOTIFICATION APPLIANCE CIRCUITS					
N1	NOTIFICATION APPLIANCE CIRCUIT -E.1	1	0.000	0.000	0.425	0.425
N2	NOTIFICATION APPLIANCE CIRCUIT -E.2	1	0.000	0.000	0.573	0.573
			NAC TOTALS	0.000		0.998
			OVERALL TOTALS	0.091		1.143

TOTAL ALARM AMPS 1.143 X 15 MINS= 0.286
TOTAL STANDBY AMPS 0.091 X 24 HOURS= 2.184
5 MINS = 0.083 TOTAL AMP HOURS REQUIRED= 2.470
15 MINS = 0.250 RECOMMENDED MINIMUM BATTERY SIZE= 7.0 AMP HOURS
LESS 25% DERATING FACTOR= 5.3 AMP HOURS
SPARE AMP HOURS 2.8 AMP HOURS

NOTIFICATION CIRCUIT - E.1 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	1					0.043	0.043	
SPSRL-110	WALL SPKR/STROBE @ 110cd	2					0.148	0.296	
SRL-15	WALL STROBE @ 15cd	2					0.043	0.086	
				200		0.772		0.425	0.328

TOTAL AMPS: 0.425 TOTAL % DROP: 1.61% TOTAL V-DROP: 0.328

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 20.07 VDC

NOTIFICATION CIRCUIT - E.2 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	1					0.043	0.043	
SPSRL-110	WALL SPKR/STROBE @ 110cd	3					0.148	0.444	
SRL-15	WALL STROBE @ 15cd	2					0.043	0.086	
				210		0.811		0.573	0.464

TOTAL AMPS: 0.573 TOTAL % DROP: 2.28% TOTAL V-DROP: 0.464

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.94 VDC

HFP24S8 NAC-C
BATTERY CALCULATIONS FOR 24 HOUR STANDBY

(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
HFP24S8	8 AMP NOTIFICATION POWER SUPPLY	1	0.09100	0.09100	0.14500	0.14500
			PANEL TOTALS	0.091		0.145
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	FIELD NOTIFICATION APPLIANCE CIRCUITS					
N1	NOTIFICATION APPLIANCE CIRCUIT -C.1	1	0.000	0.000	0.655	0.655
N2	NOTIFICATION APPLIANCE CIRCUIT -C.2	1	0.000	0.000	0.140	0.140
N3	NOTIFICATION APPLIANCE CIRCUIT -C.3	1	0.000	0.000	0.994	0.994
N4	NOTIFICATION APPLIANCE CIRCUIT -C.4	1	0.000	0.000	0.210	0.210
			NAC TOTALS	0.000		1.999
			OVERALL TOTALS	0.091		2.144

TOTAL ALARM AMPS 2.144 X 15 MINS= 0.536
TOTAL STANDBY AMPS 0.091 X 24 HOURS= 2.184
5 MINS = 0.083 TOTAL AMP HOURS REQUIRED= 2.720
15 MINS = 0.250 RECOMMENDED MINIMUM BATTERY SIZE= 7.0 AMP HOURS
LESS 25% DERATING FACTOR= 5.3 AMP HOURS
SPARE AMP HOURS 2.5 AMP HOURS

NOTIFICATION CIRCUIT - C.1 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-110	WALL SPKR/STROBE @ 110cd	4					0.148	0.592	
SRL-30	WALL STROBE @ 30cd	1					0.063	0.063	
				225		0.869		0.655	0.569

TOTAL AMPS: 0.655 TOTAL % DROP: 2.79% TOTAL V-DROP: 0.569

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.83 VDC

NOTIFICATION CIRCUIT - C.2 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
B200S-WH	SOUNDER BASE	4					0.035	0.140	
				385		1.486		0.140	0.208

TOTAL AMPS: 0.14 TOTAL % DROP: 1.02% TOTAL V-DROP: 0.208

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 20.19 VDC

NOTIFICATION CIRCUIT - C.3 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-110	WALL SPKR/STROBE @ 110cd	6					0.148	0.888	
SRL-15	WALL STROBE @ 15cd	1					0.043	0.043	
SRL-30	WALL STROBE @ 30cd	1					0.063	0.063	
				395		1.525		0.994	1.516

TOTAL AMPS: 0.994 TOTAL % DROP: 7.43% TOTAL V-DROP: 1.516

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 18.88 VDC

NOTIFICATION CIRCUIT - C.4 - VOLTAGE DROP CALCULATIONS

1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIMTY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
B200S-WH	SOUNDER BASE	6					0.035	0.210	
				580		2.239		0.210	0.470

TOTAL AMPS: 0.21 TOTAL % DROP: 2.30% TOTAL V-DROP: 0.470

STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.93 VDC

HFP24S8 NAC-M
BATTERY CALCULATIONS FOR 24 HOUR STANDBY

(•) 24 ( ) 60

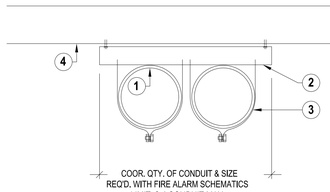
PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
HFP24S8	8 AMP NOTIFICATION POWER SUPPLY	1	0.09100	0.09100	0.14500	0.14500
			PANEL TOTALS	0.091		0.145
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	FIELD NOTIFICATION APPLIANCE CIRCUITS					
N1	NOTIFICATION APPLIANCE CIRCUIT -M.1	1	0.000	0.000	0.592	0.592
			NAC TOTALS	0.000		0.592
			OVERALL TOTALS	0.091		0.737

TOTAL ALARM AMPS 0.737 X 15 MINS= 0.184
TOTAL STANDBY AMPS 0.091 X 24 HOURS= 2.184
5 MINS = 0.083 TOTAL AMP HOURS REQUIRED= 2.368
15 MINS = 0.250 RECOMMENDED MINIMUM BATTERY SIZE= 7.0 AMP HOURS
LESS 25% DERATING FACTOR= 5.3 AMP HOURS
SPARE AMP HOURS 2.9 AMP HOURS

NOTIFICATION CIRCUIT - M.1 - VOLTAGE DROP CALCULATIONS

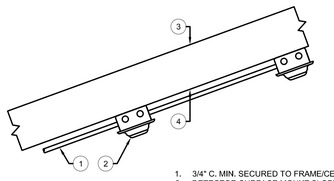
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.

1. FIRE ALARM CONDUIT, SEE PLAN FOR SIZE AND QUANTITY.
2. P-1000 UNISTRUT CHANNEL @ 6'-0" O.C. MAX. WITH (2) 1/4" SCREWS WITH MINIMUM 2" EMBEDMENT.
3. UNISTRUT P-11 SERIES PIPE CLAMP.
4. (E) WOOD ROOF FRAMING MEMBERS.



COOR. QTY. OF CONDUIT & SIZE
REQ'D. WITH FIRE ALARM SCHEMATICS
LIMIT: 2-4 CONDUIT MAX.

CONDUIT MOUNTING TO ROOF STRUCTURE 01



1. 3/4" C. MIN. SECURED TO FRAME/CEILING.
2. DETECTOR SURFACE MOUNT SLOPED AS PER NFPA 72, 17.6.3.4*.
3. ROOF FRAMING MEMBER.
4. UNDERSIDE OF ROOF STRUCTURE.
5. FINISHED CEILING.



REFERENCE NFPA 72, CHAPTER 17

ABOVE CEILING SLOPED DETECTOR MOUNTING DETAIL 02

ALL WORK SHALL BE IN CONFORMANCE WITH TITLE 24, 2022 CALIFORNIA CODE OF REGULATIONS (CCR), 2022 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 CCR, 2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR

CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE.

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 HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

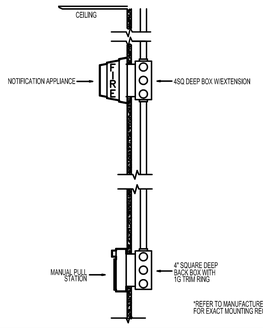
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICALPIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

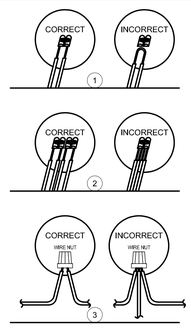
MP [ ] MD [ ] PP [ ] E [X] OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP [ ] MD [ ] PP [ ] E [ ] OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

ANCHORAGE AND BRACING NOTES 03

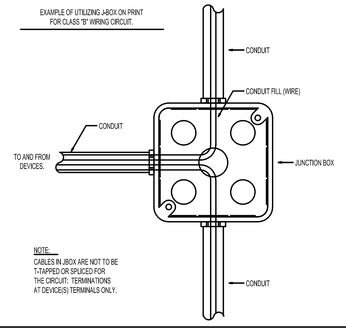


DEVICE WALL MOUNT DETAIL 04

1. DO NOT LOOP CONDUCTOR INTO TERMINAL. ALWAYS CUT WIRE AND INSERT INTO TERMINAL.
2. ONLY INSTALL TWO (2) CONDUCTORS IN EACH TERMINAL (MAXIMUM). DO NOT INSTALL FOUR (4) CONDUCTORS IN ONE TERMINAL.
3. WHEN USING A WIRE NUT, ONLY CONNECT TWO (2) CONDUCTORS WITH ONE (1) WIRE NUT. (USE AS NEEDED OR ALLOWED)

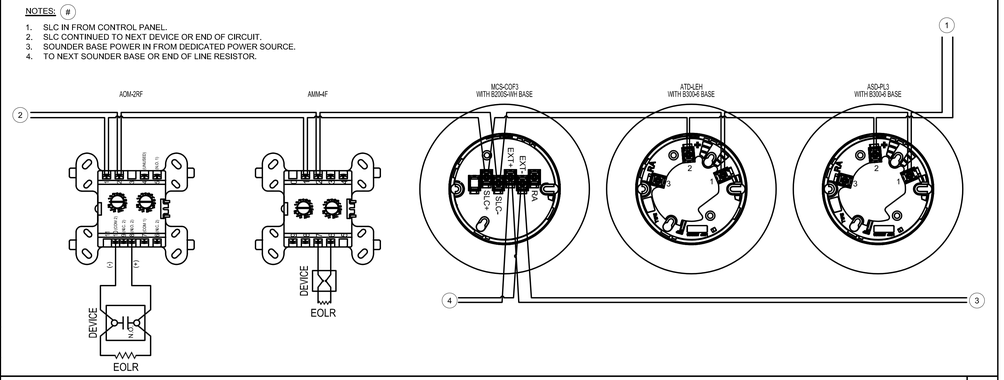


WIRING METHOD DETAIL 05

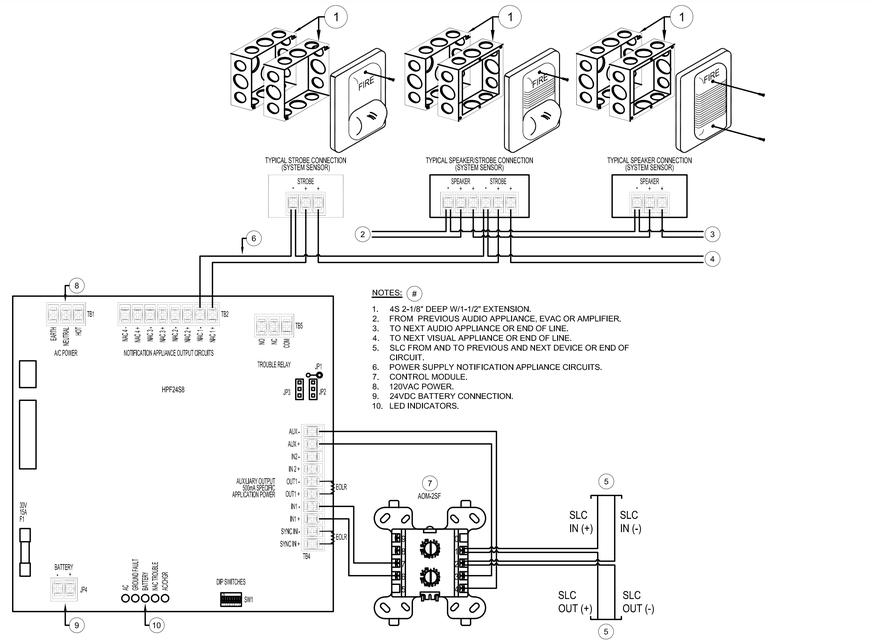


WIRE ROUTING DETAIL - JUNCTION BOX 06

NOTES: (#)
1. SLC IN FROM CONTROL PANEL.
2. SLC CONTINUED TO NEXT DEVICE OR END OF CIRCUIT.
3. SOUNDER BASE POWER IN FROM DEDICATED POWER SOURCE.
4. TO NEXT SOUNDER BASE OR END OF LINE RESISTOR.



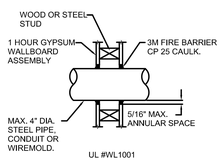
TYPICAL DETECTOR AND MODULE SLC AND SOUNDER BASE WIRE DIAGRAM 08



NOTES: (#)
1. 4S 2-1/8" DEEP W/1-1/2" EXTENSION.
2. FROM PREVIOUS AUDIO APPLIANCE, EVAC OR AMPLIFIER.
3. TO NEXT AUDIO APPLIANCE OR END OF LINE.
4. TO NEXT VISUAL APPLIANCE OR END OF LINE.
5. SLC FROM AND TO PREVIOUS AND NEXT DEVICE OR END OF CIRCUIT.
6. POWER SUPPLY NOTIFICATION APPLIANCE CIRCUITS.
7. CONTROL MODULE.
8. 120VAC POWER.
9. 24VDC BATTERY CONNECTION.
10. LED INDICATORS.

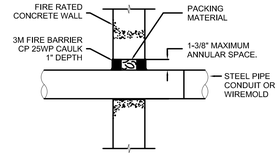
HPF24S8 WITH AOM-2SF CONTROL MODULE TYPICAL WIRE DIAGRAM 09

GYPSUM BOARD WALL PENETRATION



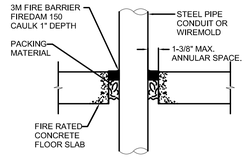
UL #WL1001

CONCRETE WALL PENETRATION



UL #CAJ1044

CONCRETE FLOOR PENETRATION



UL #CAJ1017

ITEM 1

WALL ASSEMBLY - THE 1, 2, 3 OR 4 HOUR FIRE RATED GYPSUM WALL BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX. 2 HR. RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOMINAL 2" X 4" LUMBER SPACED IN 16" ON CENTER WITH NOMINAL 2" X 4" LUMBER AND PLATES AND CROSS BRACES. STEEL STUDS TO BE MINIMUM 3-5/8" WIDE BY 1-3/8" DEEP CHANNELS SPACED MAXIMUM 24" ON CENTER.
B. WALLBOARD/GYPSUM - NOMINAL ⅝ OR ¾" THICK, 4' WIDE SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARDS RYPS, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE SPECIFIED IN THE INDIVIDUAL U300 OR U400 DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.

MAXIMUM DIAMETER OF OPENINGS IS 13-1/2".

SYSTEM NUMBER: WL1001 (FORMERLY SYSTEM NUMBER 147)
F RATINGS: 1, 2, 3 AND 4 HOUR (SEE ITEMS 2 AND 3)
T RATINGS: 0, 1, 2, 3 AND 4 HOUR (SEE ITEM 3)
L RATING AT AMBIENT: LESS THAN 1 CFM/SQ FT (SEE ITEM 3)

ITEM 2

PIPE OR CONDUIT - NOMINAL 12" IN DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER), STEEL PIPE NOMINAL 6" IN DIAMETER (OR SMALLER), STEEL CONDUIT NOMINAL 4" IN DIAMETER (OR SMALLER), STEEL ELECTRICAL METALLIC TUBING OR TYPE L (OR HEAVIER), COPPER TUBING NOMINAL 1" IN DIAMETER (OR SMALLER), FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAXIMUM F RATING OF FIRESTOP SYSTEM (TIEM CONSTRUCTED USING STEEL CHANNEL STUDS). A MAXIMUM OF ONE (1) PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED IN BOTH SIDES OF WALL ASSEMBLY.

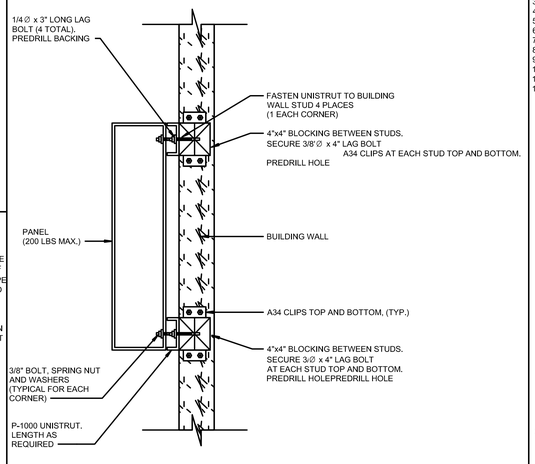
ITEM 3

FILL, VOID OR CAVITY MATERIAL, CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MINIMUM OF ¾" IN DIAMETER BOARD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. IN THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED AS TABULATED BELOW:

MAX PIPE OR CONDUIT DIA. (INCHES)	ANNULAR SPACE (INCHES)	F RATING (HOURS)	T RATING (HOURS)
1	0 TO 3/16	1 OR 2	0 + 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

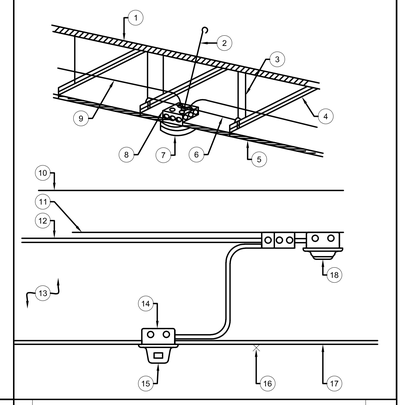
+WHEN COPPER PIPE IS USED, T RATING IS 0 NOMINAL
MINNESOTA MINING & MFG. CO. - TYPES CP-23 S/L, CP-25 N/8, CP-25 WS, CP-25 WS + (NOTE: L RATINGS APPLY WHEN THE TYPE CP-25WS+CAULK IS USED)

THROUGH WALL & FIRE STOP PENETRATION DETAILS 07



SURFACE MOUNT PANEL - WOOD FRAMING DETAIL 10

1. PERMANENT CEILING.
2. SEISMIC HANGER.
3. HANGERS
4. T-BAR
5. DROP CEILING TILE.
6. T-BAR BOX SUPPORT BRACKET.
7. SMOKE DETECTOR
8. 4" Sq. BOX.
9. 3/4" MINIMUM METALLIC CONDUIT.
10. ROOF STRUCTURE.
11. ROOF FRAMING MEMBER.
12. 3/4" MINIMUM CONDUIT, CONCEAL IN ATTIC SPACE.
13. NOT USED.
14. CEILING SPACE.
15. JUNCTION BOX MOUNTED IN CEILING (SEE NOTE).
16. SMOKE DETECTOR.
17. "PERMANENT MARKER" INDICATES THE LOCATION OF THE HEAT DETECTOR IN THE ATTIC SPACE. RED LETTER ON WHITE BACKGROUND SHALL BE 3/4" HIGH.
18. FINISH CEILING.
19. HEAT DETECTOR.



LATERAL SUPPORT SYSTEM DETAIL 11

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

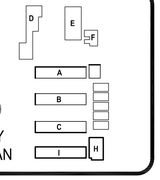
ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
LEAF ENGINEERS
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212
DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





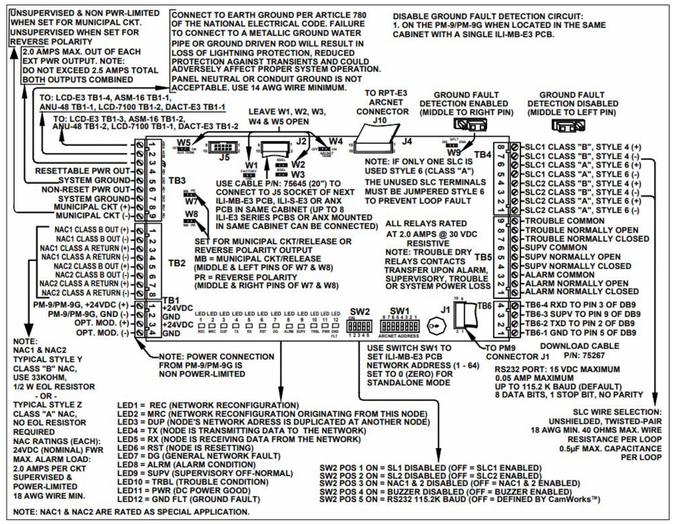
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

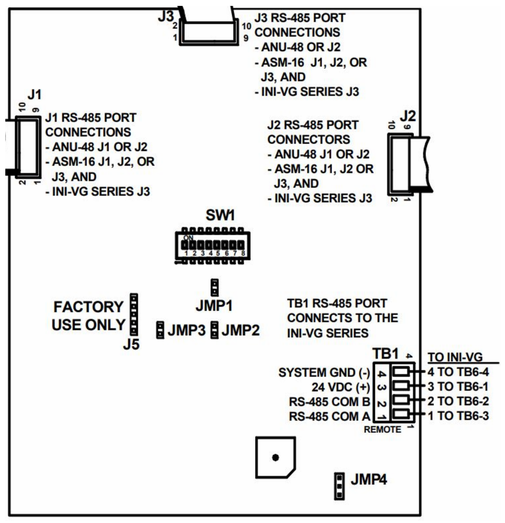
This document is for plan review only

FIRE ALARM DETAILS

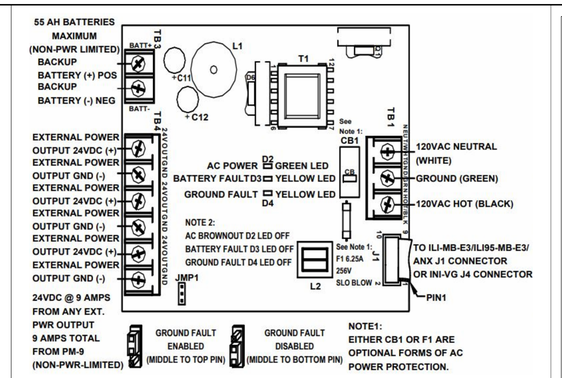
FA4.0



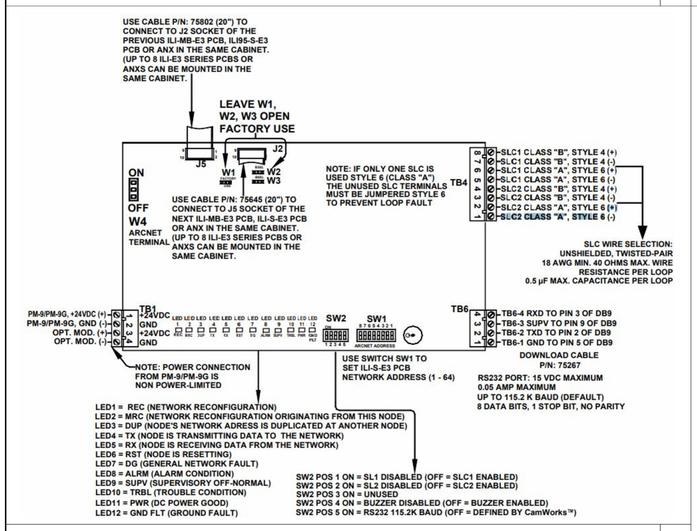
ILI-MB-E3 TYPICAL WIRE DIAGRAM | 01



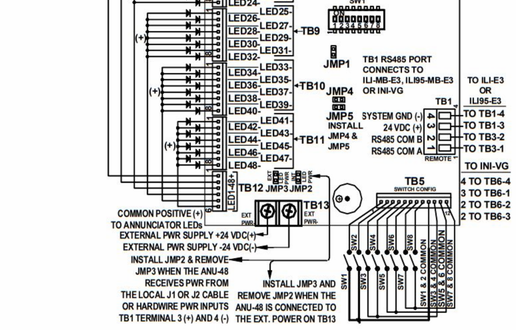
ASM-16 TYPICAL WIRE DIAGRAM | 05



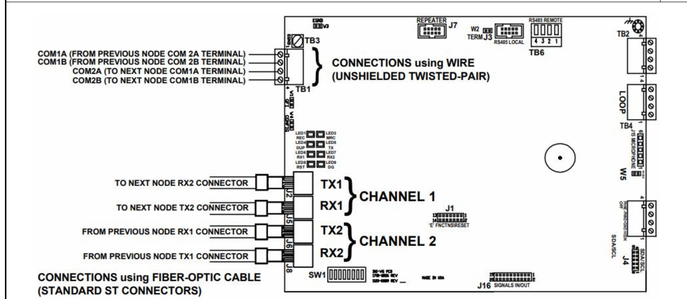
PM-9 TYPICAL WIRE DIAGRAM | 08



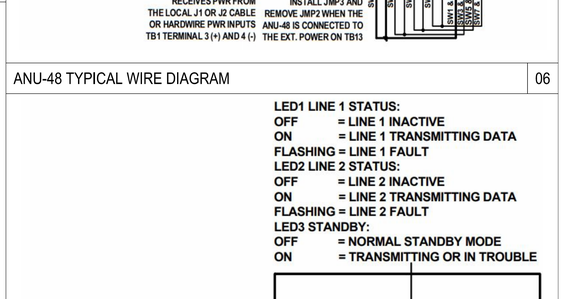
ILI-S-E3 TYPICAL WIRE DIAGRAM | 02



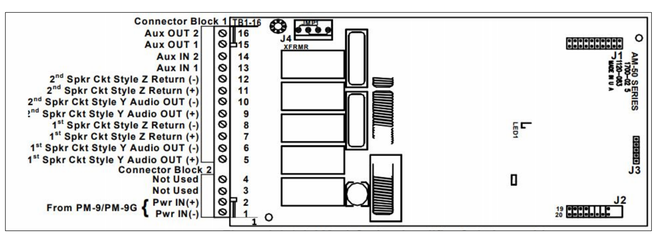
ANU-48 TYPICAL WIRE DIAGRAM | 06



INI-VG TYPICAL WIRE DIAGRAM | 03



DACT-E3 TYPICAL WIRE DIAGRAM | 07



AM-50/70 TYPICAL WIRE DIAGRAM | 04

SEISMIC CERTIFICATES | 09

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

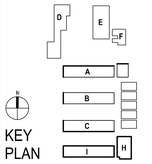
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

FIRE ALARM DETAILS

FA4.1

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2022

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED): 2016 EDITION

NFPA 720 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT; 2016 EDITION

NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES; 2016 EDITION
UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES; 2003 EDITION

UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS; 1999 EDITION

UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED; 2002 EDITION (R2010)

ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS; 2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

TECHNOLOGY SCOPE OF WORK

1. PROVIDE COMPLETE TECHNOLOGY SYSTEMS EQUIPMENT WITH INSTALLATION AS REQUIRED FOR A COMPLETE WORKING SYSTEM PER DESIGN DRAWINGS AND SPECIFICATIONS FOR COMMUNICATIONS ROOM AND OTHER SPACES REQUIRED TECHNOLOGY CONNECTIONS IN BUILDINGS AND SITE PER THE DESIGN DRAWINGS.
2. PROVIDE NEW CONDUITS, J-HOOKS ABOVE ACCESSIBLE CEILING SPACES TO SUPPORT NEW TECHNOLOGY WIRING AS REQUIRED BETWEEN END DEVICES AND TECHNOLOGY HEADEND EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL WIRING WITH TERMINATION AND TESTING AS REQUIRED FOR A COMPLETE WORKING SYSTEM.
3. PROVIDE COMPLETE INFRASTRUCTURE INCLUDING WIRING TO ALL SECURITY DEVICES PER PLANS.
4. THE CONTRACTOR SHALL PROVIDE CONDUITS, UNDERGROUND PULL BOXES, AND WIRING AS REQUIRED FOR CONNECTIONS TO ALL SITE DEVICES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TECHNOLOGY EQUIPMENT/DEVICES MOUNTING AS NOTED PER THE DESIGN DRAWINGS.
6. THE CONTRACTOR SHALL PROVIDE NEW UNDERGROUND CONDUITS FOR NEW UTILITY SERVICE PROVIDER CONNECTION, AND COORDINATE WITH UTILITY SERVICE PROVIDER COMPANY FOR FINAL POINT OF CONNECTION PRIOR TO INSTALLATION.
7. PROVIDE ACCESS CONTROL SYSTEM TO INCLUDE ANY NECESSARY ACCESS CONTROL PANEL, POWER SUPPLY AND CARD READERS TO PROVIDE FULLY FUNCTIONAL SYSTEM.
8. PROVIDE VIDEO SURVEILLANCE SYSTEM BACKBONE CABLING AND INFRASTRUCTURE FOR OFCI CAMERAS AND ALL REQUISITE PROGRAMMING AND INTEGRATIONS FOR FULLY FUNCTIONAL SYSTEM.
9. WHERE DISCREPANCIES EXIST, DISTRICT STANDARDS FOUND ON LUSD WEBSITE AND NOTED IN SPECIFICATIONS SHALL TAKE PRECEDENT FOR MATERIALS AND METHODS.

AUDIO & VIDEO GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. THE INSTALLING CONTRACTOR OF EACH SYSTEM SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN 120V POWER REQUIREMENTS FOR ALL REMOTE POWER SUPPLIES. THE INSTALLING CONTRACTORS LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS. (TYPICAL) PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT. SYSTEM INSTALLERS SHALL COORDINATE LOCATION AND CONNECTION OF CONTROL PANEL AND HEAD END POWER WITH THE PROJECTS ELECTRICAL CONTRACTOR.
2. THE PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS BACK BOXES, SLEEVES, AND OTHER RACEWAY REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.
3. ALL EXPOSED SYSTEM'S WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4".
4. A/V CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE SEALED TO PREVENT ANY MOISTURE FROM ENTERING BUILDING.
5. NO CONDUITS SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING. IF EXTERIOR CONDUITS ARE REQUIRED FOR A COMPLETE INSTALLATION, EACH SYSTEM CONTRACTOR SHALL COORDINATE WITH THE PROJECTS CONSULTANT PRIOR TO ANY ROUGH-IN.
6. EACH SYSTEM CONTRACTOR SHALL PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL CONDUIT STUB OUTS AND SLEEVES TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR O CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE EXCEPTED.
7. ALL CABLE SHALL BE ROUTED DOWN CORRIDORS, PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS AND STRUCTURE. CABLE TO EACH DEVICE SHALL BRANCH OFF OF A MAIN CORRIDOR TRUNK. ROUTING CABLES THROUGH CLASSROOMS, OFFICES, STORAGE ROOMS, RESTROOMS OR ANY TYPE OF ROOM OTHER THAN A CORRIDOR WILL NOT BE ACCEPTED. ENTER ALL ROOMS ABOVE THE ASSOCIATED ROOM DOORWAY.
8. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM AN APPROVED CABLE SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. THE CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. AT LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.
9. ALL INTERCOM CALLING FOR CLASSROOMS, OFFICES, CONFERENCE ROOMS, WORK ROOMS, AND LOUNGES SHALL BE HOME RUNS TO HEAD END EQUIPMENT TO ALLOW ZONING TO BE ACCOMPLISHED.
10. ALL EXTERIOR AND WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 10'-0" UNLESS OTHERWISE NOTED.
11. EXTERIOR SPEAKERS SHALL NOT BE GROUPED WITH INTERIOR SPEAKERS.
12. ALL SPEAKERS SHALL BE CONNECTED TO A STANDARD PUNCH DOWN BLOCK LOCATED NEAR HEAD END EQUIPMENT AND THEN CONNECTED TO HEAD END EQUIPMENT.
13. ALL CEILING MOUNTED SPEAKERS SHALL BE INSTALLED UTILIZING A TILE BRIDGE SUPPORT SYSTEM. AT NO POINT SHOULD THE WEIGHT OF A CEILING MOUNTED SPEAKER BE SUPPORTED BY A CEILING TILE ONLY.
14. ALL WALL MOUNTED CALL INITIATING DEVICES SHALL BE INSTALLED AT +42" ABOVE THE FINISHED FLOOR.

MEP COMPONENT ANCHORAGE NOTES

1. 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 CHAPTER 13, 26 AND 30:

   A. ALL PERMANENT EQUIPMENT AND COMPONENTS.

   B. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

   C. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN400 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.

2. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

3. 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 ABOVE REQUIREMENTS.

SECURITY GENERAL NOTES

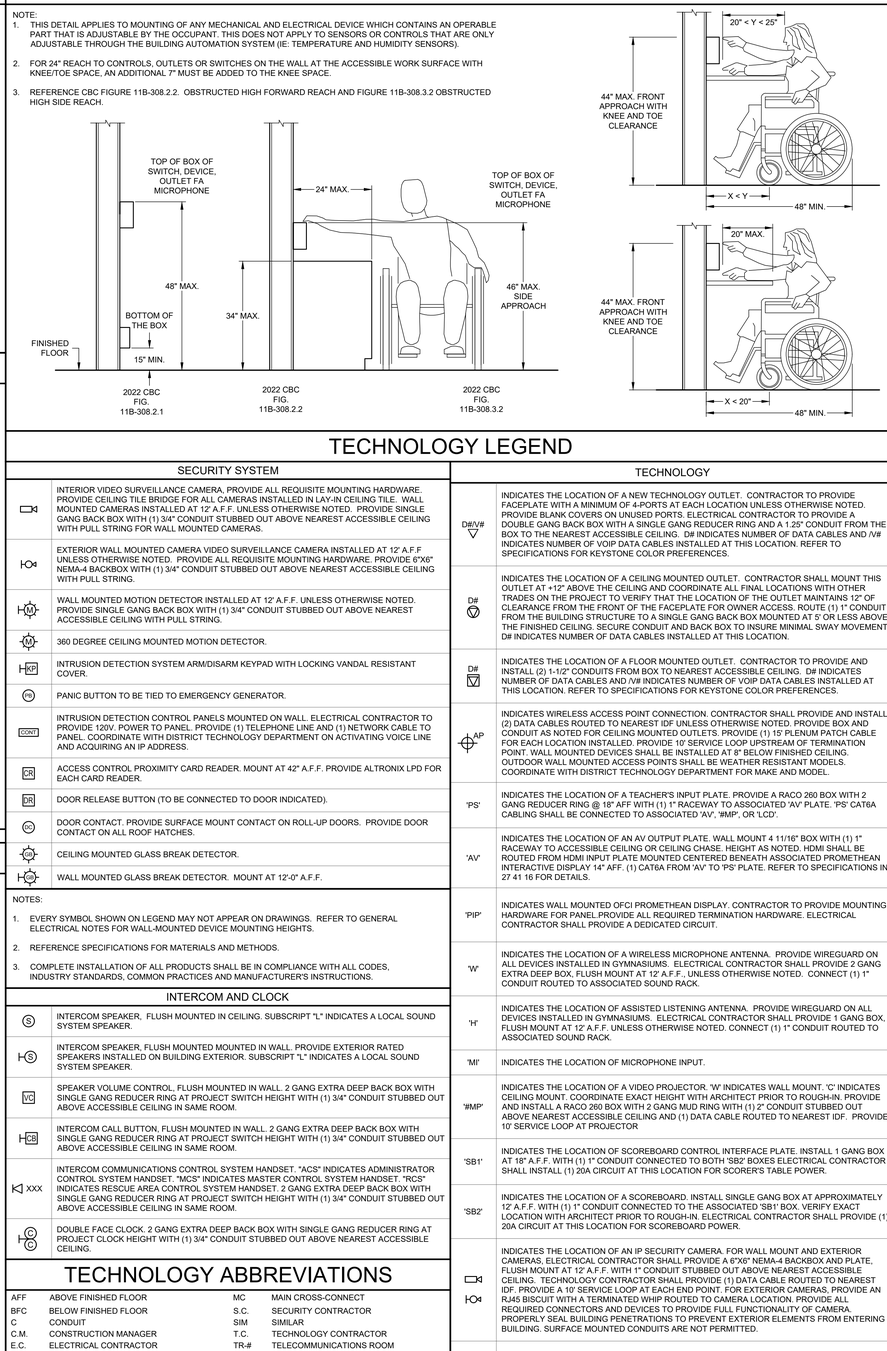
1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. SECURITY CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT AND REMOTE POWER SUPPLIES (TYPICAL).
2. A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL).
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT, SLEEVES, AND PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE SECURITY SYSTEM. PROVIDE ALL CONDUITS REQUIRED AT EXTERIOR DOORS ANNOTATED WITH DOOR CONTACTS OR CARD READERS TO ALLOW FOR INSTALLATION OF DOOR CONTACT POSITION SENSORS AND CARD READERS.
4. SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE.
5. ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4"
6. PROVIDE PROTECTIVE COVER FOR ALL DEVICES IN GYMNASIUM AREAS.
7. ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
8. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.
9. ALL LOW VOLTAGE CABLING SHALL BE INDIVIDUALLY ROUTED TO HEAD END POINT AND SUPPORTED IN PROPER CABLE SUPPORT SYSTEM FOR ENTIRE LENGTH OF RUN.
10. ALL EXTERIOR CAMERAS SHALL BE MOUNTED 12' ABOVE FINISHED GRADE UNLESS OTHERWISE INDICATED.
11. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.
12. CONTRACTOR SHALL CONNECT FREEZER/COOLER SENSORS TO INTRUSION DETECTION HEAD-END FOR EVENT DETECTION. PROVIDE ALL REQUIRED MODULES TO INTERFACE SENSORS.
13. CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE. COORDINATE WITH OWNER FOR FINAL INSTALLATION LOCATION PRIOR TO ROUGH-IN. PROVIDE CAMERA FIELD OF VIEW ADJUSTMENTS. COORDINATE WITH OWNER.
14. CONTRACTOR SHALL INTEGRATE THE INSTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM TO PROVIDE THE FUNCTIONALITY OF THE BURGLAR ALARM BEING DISARMED ON AN AUTHORIZED CARD SWIPE AT ANY CARD READER.
15. CONTRACTOR SHALL INTEGRATE THE ACCESS CONTROL, INTRUSION DETECTION AND VIDEO SURVEILLANCE SYSTEMS. PROVIDE ALL REQUIRED MODULES, CABLING AND LICENSES.
16. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.
17. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED. MC CABLE, ROMEX, SO CABLES OR OTHER METHODS ARE NOT ACCEPTABLE.
18. SECURITY SYSTEM SHALL NOT IN ANY WAY LIMIT OR COMPROMISE EXITING THROUGH ALL REQUIRED EXIT ACCESS AND EXIT DISCHARGE SYSTEMS. ANY SECURITY SYSTEM PENETRATION THROUGH RATED ASSEMBLIES SHALL BE PROPERLY PROTECTED WITH A UL LISTED FIRE STOP SYSTEM MATCHING THE RATING OF THE ASSEMBLY.

INTERCOM SYSTEM GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. THE INSTALLING CONTRACTOR OF EACH SYSTEM SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN 120V POWER REQUIREMENTS FOR ALL REMOTE POWER SUPPLIES. THE INSTALLING CONTRACTORS LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS. (TYPICAL) PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT. SYSTEM INSTALLERS SHALL COORDINATE LOCATION AND CONNECTION OF CONTROL PANEL AND HEAD END POWER WITH THE PROJECTS ELECTRICAL CONTRACTOR.
2. THE PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS BACK BOXES, SLEEVES, AND OTHER RACEWAY REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.
3. ALL EXPOSED SYSTEM'S WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4".
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ANY MOISTURE FROM ENTERING BUILDING.
5. NO CONDUITS SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING. IF EXTERIOR CONDUITS ARE REQUIRED FOR A COMPLETE INSTALLATION, EACH SYSTEM CONTRACTOR SHALL COORDINATE WITH THE PROJECTS CONSULTANT PRIOR TO ANY ROUGH-IN.
6. EACH SYSTEM CONTRACTOR SHALL PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL CONDUIT STUB OUTS AND SLEEVES TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR O CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE EXCEPTED.
7. ALL CABLE SHALL BE ROUTED DOWN CORRIDORS, PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS AND STRUCTURE. CABLE TO EACH DEVICE SHALL BRANCH OFF OF A MAIN CORRIDOR TRUNK. ROUTING CABLES THROUGH CLASSROOMS, OFFICES, STORAGE ROOMS, RESTROOMS OR ANY TYPE OF ROOM OTHER THAN A CORRIDOR WILL NOT BE ACCEPTED. ENTER ALL ROOMS ABOVE THE ASSOCIATED ROOM DOORWAY.
8. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM AN APPROVED CABLE SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. THE CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. AT LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.
9. ALL INTERCOM CALLING FOR CLASSROOMS, OFFICES, CONFERENCE ROOMS, WORK ROOMS, AND LOUNGES SHALL BE HOME RUNS TO HEAD END EQUIPMENT TO ALLOW ZONING TO BE ACCOMPLISHED.
10. ALL EXTERIOR AND WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 10'-0" UNLESS OTHERWISE NOTED.
11. EXTERIOR SPEAKERS SHALL NOT BE GROUPED WITH INTERIOR SPEAKERS.
12. ALL SPEAKERS SHALL BE CONNECTED TO A STANDARD PUNCH DOWN BLOCK LOCATED NEAR HEAD END EQUIPMENT AND THEN CONNECTED TO HEAD END EQUIPMENT.
13. ALL CEILING MOUNTED SPEAKERS SHALL BE INSTALLED UTILIZING A TILE BRIDGE SUPPORT SYSTEM. AT NO POINT SHOULD THE WEIGHT OF A CEILING MOUNTED SPEAKER BE SUPPORTED BY A CEILING TILE ONLY.
14. ALL WALL MOUNTED CALL INITIATING DEVICES SHALL BE INSTALLED AT +42" ABOVE THE FINISHED FLOOR.

MOUNTING OVER OBSTRUCTION DETAIL

NOTE:
1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).
2. FOR 24" REACH TO CONTROLS, OUTLETS OR SWITCHES ON THE WALL AT THE ACCESSIBLE WORK SURFACE WITH KNEE/TOE SPACE, AN ADDITIONAL 7" MUST BE ADDED TO THE KNEE SPACE.
3. REFERENCE CBC FIGURE 11B-308.2.2. OBSTRUCTED HIGH FORWARD REACH AND FIGURE 11B-308.3.2 OBSTRUCTED HIGH SIDE REACH.



TECHNOLOGY LEGEND

SECURITY SYSTEM

	INTERIOR VIDEO SURVEILLANCE CAMERA, PROVIDE ALL REQUISITE MOUNTING HARDWARE. PROVIDE CEILING TILE BRIDGE FOR ALL CAMERAS INSTALLED IN LAY-IN CEILING TILE. WALL MOUNTED CAMERAS INSTALLED AT 12' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING FOR WALL MOUNTED CAMERAS.
	EXTERIOR WALL MOUNTED CAMERA VIDEO SURVEILLANCE CAMERA INSTALLED AT 12' A.F.F UNLESS OTHERWISE NOTED. PROVIDE ALL REQUISITE MOUNTING HARDWARE. PROVIDE 6"X6" NEMA-4 BACKBOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING.
MD	WALL MOUNTED MOTION DETECTOR INSTALLED AT 12' A.F.F. UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING.
MD	360 DEGREE CEILING MOUNTED MOTION DETECTOR.
KP	INTRUSION DETECTION SYSTEM ARM/DISARM KEYPAD WITH LOCKING VANDAL RESISTANT COVER.
PB	PANIC BUTTON TO BE TIED TO EMERGENCY GENERATOR.
CONT	INTRUSION DETECTION CONTROL PANELS MOUNTED ON WALL. ELECTRICAL CONTRACTOR TO PROVIDE 120V. POWER TO PANEL. PROVIDE (1) TELEPHONE LINE AND (1) NETWORK CABLE TO PANEL. COORDINATE WITH DISTRICT TECHNOLOGY DEPARTMENT ON ACTIVATING VOICE LINE AND ACQUIRING AN IP ADDRESS.
CR	ACCESS CONTROL PROXIMITY CARD READER. MOUNT AT 42" A.F.F. PROVIDE ALTRONIX LPD FOR EACH CARD READER.
DR	DOOR RELEASE BUTTON (TO BE CONNECTED TO DOOR INDICATED).
DC	DOOR CONTACT. PROVIDE SURFACE MOUNT CONTACT ON ROLL-UP DOORS. PROVIDE DOOR CONTACT ON ALL ROOF HATCHES.
GB	CEILING MOUNTED GLASS BREAK DETECTOR.
GB	WALL MOUNTED GLASS BREAK DETECTOR. MOUNT AT 12'-0" A.F.F.

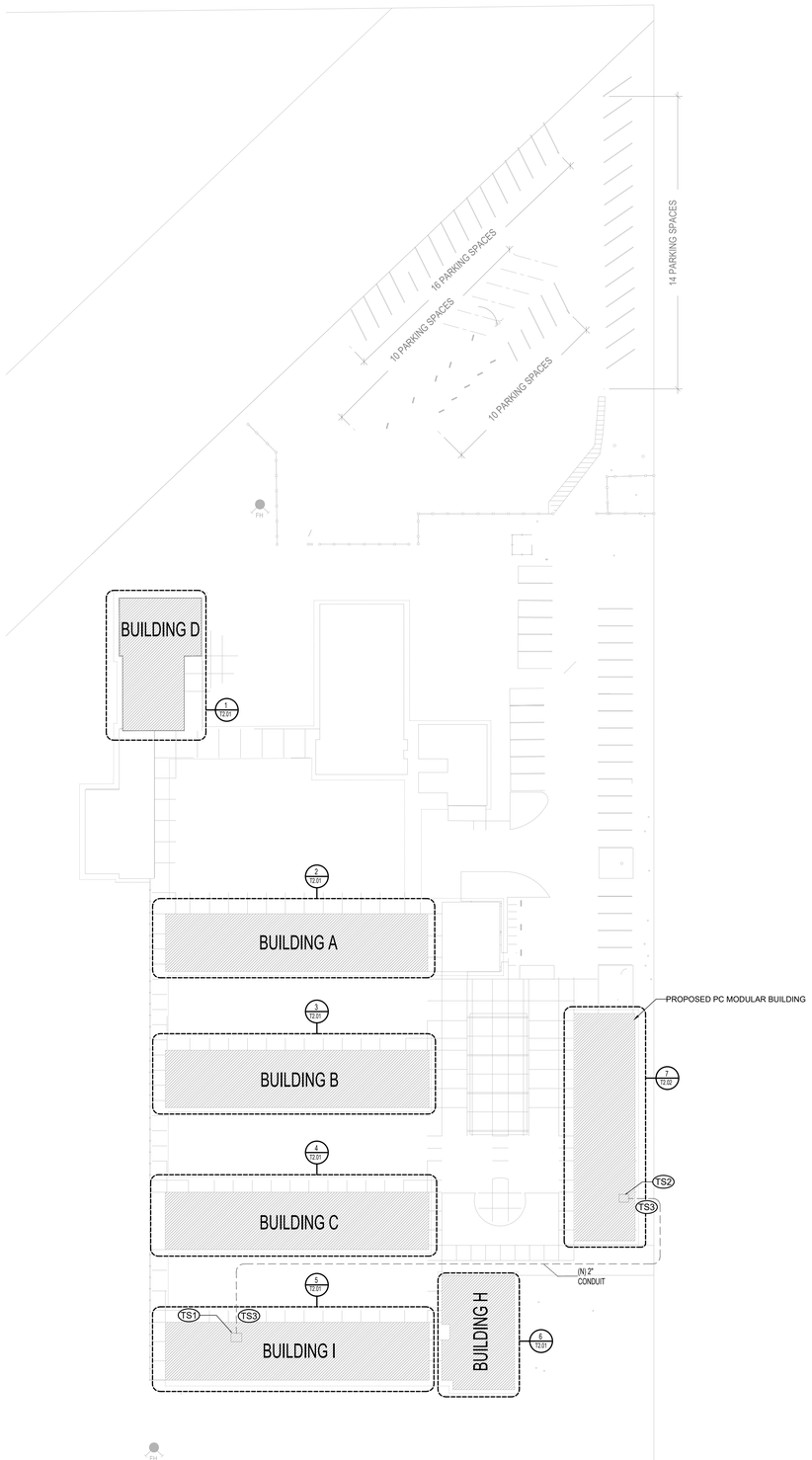
NOTES:
1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.

INTERCOM AND CLOCK

S	INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING. SUBSCRIPT "L" INDICATES A LOCAL SOUND SYSTEM SPEAKER.
S	INTERCOM SPEAKER, FLUSH MOUNTED MOUNTED IN WALL. PROVIDE EXTERIOR RATED SPEAKERS INSTALLED ON BUILDING EXTERIOR. SUBSCRIPT "L" INDICATES A LOCAL SOUND SYSTEM SPEAKER.
VC	SPEAKER VOLUME CONTROL, FLUSH MOUNTED IN WALL. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM.
CB	INTERCOM CALL BUTTON, FLUSH MOUNTED IN WALL. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM.
XXX	INTERCOM COMMUNICATIONS CONTROL SYSTEM HANDSET. "ACS" INDICATES ADMINISTRATOR CONTROL SYSTEM HANDSET. "MCS" INDICATES MASTER CONTROL SYSTEM HANDSET. "RCS" INDICATES RESCUE AREA CONTROL SYSTEM HANDSET. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT SWITCH HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM.
C	DOUBLE FACE CLOCK. 2 GANG EXTRA DEEP BACK BOX WITH SINGLE GANG REDUCER RING AT PROJECT CLOCK HEIGHT WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING.

TECHNOLOGY

D#/V#	INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACEPLATE WITH A MINIMUM OF 4-PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. PROVIDE BLANK COVERS ON UNISED PORTS. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1.25" CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF DATA CABLES AND /V# INDICATES NUMBER OF VOIP DATA CABLES INSTALLED AT THIS LOCATION. REFER TO SPECIFICATIONS FOR KEYSTONE COLOR PREFERENCES.
D#	INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET. CONTRACTOR SHALL MOUNT THIS OUTLET AT +12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES IN THE FIELD. CONTRACTOR TO VERIFY THAT THE LOCATION OF D# MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT. D# INDICATES NUMBER OF DATA CABLES INSTALLED AT THIS LOCATION.
D#	INDICATES THE LOCATION OF A FLOOR MOUNTED OUTLET. CONTRACTOR TO PROVIDE AND INSTALL (2) 1-1/2" CONDUITS FROM BOX TO NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF DATA CABLES AND /V# INDICATES NUMBER OF VOIP DATA CABLES INSTALLED AT THIS LOCATION. REFER TO SPECIFICATIONS FOR KEYSTONE COLOR PREFERENCES.
AP	INDICATES WIRELESS ACCESS POINT CONNECTION. CONTRACTOR SHALL PROVIDE AND INSTALL (2) DATA CABLES ROUTED TO NEAREST IDF UNLESS OTHERWISE NOTED. PROVIDE BOX AND CONDUIT AS NOTED FOR CEILING MOUNTED OUTLETS. PROVIDE (1) 15' PLENUM PATCH CABLE FOR EACH LOCATION INSTALLED. PROVIDE 10' SERVICE LOOP UPSTREAM OF TERMINATION POINT. WALL MOUNTED DEVICES SHALL BE INSTALLED AT 8' BELOW FINISHED CEILING. OUTDOOR WALL MOUNTED ACCESS POINTS SHALL BE WEATHER RESISTANT MODELS. COORDINATE WITH DISTRICT TECHNOLOGY DEPARTMENT FOR MAKE AND MODEL.
'PS'	INDICATES THE LOCATION OF A TEACHER'S INPUT PLATE. PROVIDE A RACO 260 BOX WITH 2 GANG REDUCER RING @ 18" AFF WITH (1) 1" RACEWAY TO ASSOCIATED 'AV' PLATE. 'PS' CAT6A CABLING SHALL BE CONNECTED TO ASSOCIATED 'AV', '#MP', OR 'LCD'.
'AV'	INDICATES THE LOCATION OF AN AV OUTPUT PLATE. WALL MOUNT 4 11/16" BOX WITH (1) 1" RACEWAY TO ACCESSIBLE CEILING OR CEILING CHASE. HEIGHT AS NOTED. HDMI SHALL BE ROUTED FROM HDMI INPUT PLATE MOUNTED CENTERED BENEATH ASSOCIATED PROMETHEAN INTERACTIVE DISPLAY 14" AFF. (1) CAT6A FROM 'AV' TO 'PS' PLATE. REFER TO SPECIFICATIONS IN 27 41 16 FOR DETAILS.
'PIP'	INDICATES WALL MOUNTED OFCI PROMETHEAN DISPLAY. CONTRACTOR TO PROVIDE MOUNTING HARDWARE FOR PANEL.PROVIDE ALL REQUIRED TERMINATION HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDICATED CIRCUIT.
'W'	INDICATES THE LOCATION OF A



1 TECHNOLOGY SITE PLAN
SCALE: 1/32" = 1' 0"

TECHNOLOGY PLAN GENERAL NOTES

1. ALL TECHNOLOGY SITE UNDERGROUND CONDUIT PATHWAYS AND PULL BOX LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY PROPER CONDUIT PATHWAY AND PULL BOX LOCATIONS PRIOR TO INSTALLATION.
2. ALL TECHNOLOGY SITE CONDUITS SHALL BE 48" BELOW GRADE IF INSTALLED IN TRENCH. IF BORING MACHINE IS USED, CONDUITS SHALL BE AT 96" BELOW GRADE.
3. PROVIDE (2) 3-CELL MAXCELL INNERDUCT IN ALL 3" AND 4" CONDUITS. PROVIDE (1) 3-CELL INNERDUCT IN ALL 2" CONDUITS.
4. PROVIDE (1) 24 STRAND, SINGLE-MODE FIBER CABLE FROM MDF TO EACH IDF.
5. ALL IN-GROUND PULL BOXES SHOWN SHALL BE 36"X36"X36" CONCRETE INSTALLED FLUSH IN GRADE WITH COVER LABELED "COMMUNICATIONS" AND SHALL BE RATED FOR THE TERRAIN IN WHICH IT IS INSTALLED. DO NOT INSTALL PULL BOXES IN SIDEWALKS. PROVIDE PULL BOX EVERY 250' OR CHANGES OF DIRECTION MORE THAN 180 DEGREES. PROVIDE WIDE SWEEPING TURNS ON ALL CONDUITS ENTERING AND EXITING BOXES, INCLUDING ALL CONDUIT TURNS ALONG ROUTE.
6. CONDUITS ROUTED TO MDF / IDF ROOMS SHALL STUB OUT AT 8" A.F.F. LOCATE STUB OUTS AT THE REAR OF THE TELECOM RACKS, 6" OFF THE WALL.
7. PROVIDE PERMANENT, MACHINE PRINTED LABELS ON EACH END OF EACH CONDUIT INDICATING SOURCE AND DESTINATION LOCATIONS. PROVIDE ALL MEANS REQUIRED TO ENSURE THE LABELS DO NOT DETACH FROM THE CONDUITS OVER TIME

KEYNOTES

(TS1) INDICATES NEW LOCATION OF RELOCATED IDF.

(TS2) PROVIDE DATA TO NEW MODULAR BUILDING FROM EXISTING IDF AT BUILDING 'I'. PROVIDE THE FOLLOWING CABLING: (1) 24-STRAND, SINGLE MODE FIBER TERMINATED TO SC TERMINATION ON BOTH ENDS FOR FULL FUNCTIONING DATA INTERCONNECT OF IDF RACKS.

(TS3) REFER TO DETAIL 3/T6.1 FOR WALL PENETRATION DETAILS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

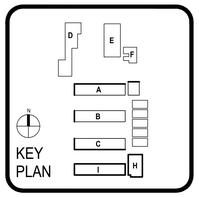
DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT



REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

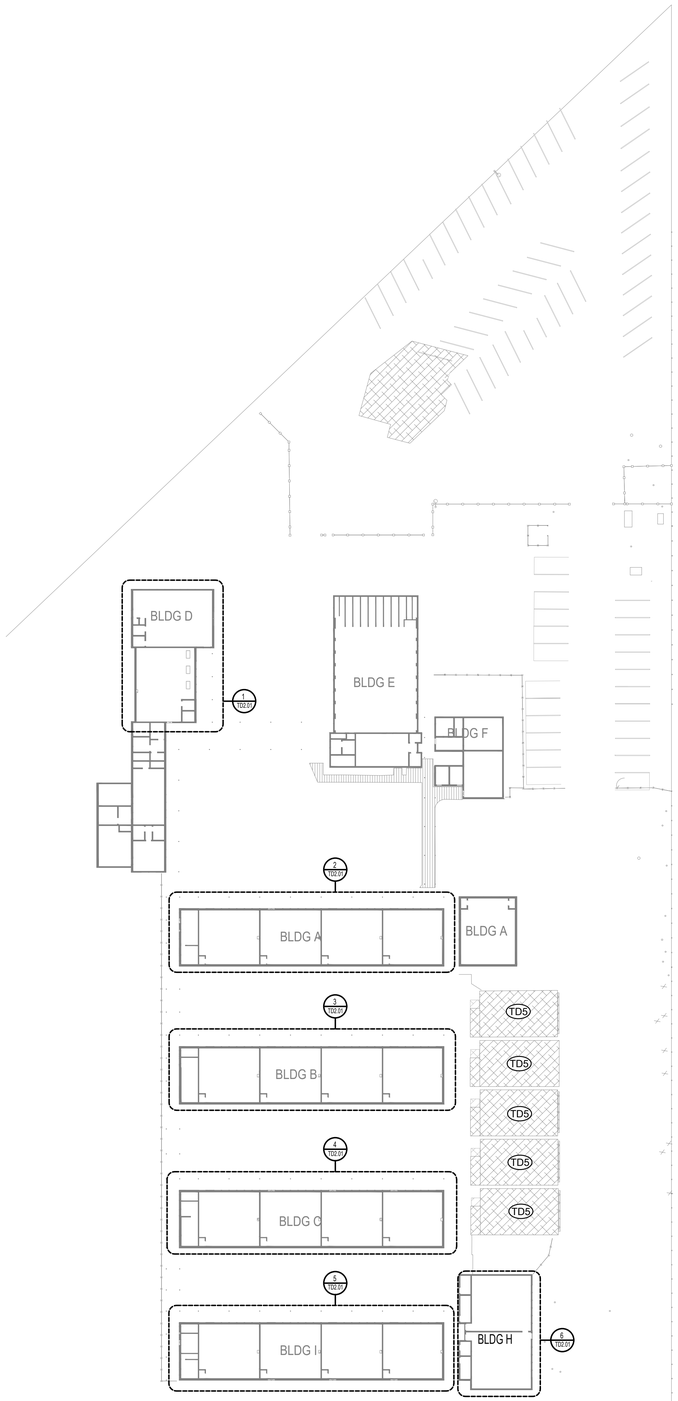
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: HEN CHKED BY: G.L.
REVISIONS

#	DESCRIPTION	DATE

TECHNOLOGY SITE PLAN

This document is for plan review only

T1.01



1 TECHNOLOGY DEMOLITION SITE PLAN
SCALE: 1/32" = 1' 0"

TECHNOLOGY DEMO GENERAL NOTES

1. EXISTING TECHNOLOGY DEVICES AND RECEPTACLE LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT ACCURATELY REFLECT ONSITE CONDITIONS. KEYNOTES SHALL APPLY TO ALL EXISTING TECHNOLOGY DEVICES AND RECEPTACLES WITHIN AREAS IN TECHNOLOGY SCOPE OF WORK ONSITE.
2. PRIOR TO DEMOLITION, CONTRACTOR MUST TEST, REMOVE, AND STORE ALL TECHNOLOGY EQUIPMENT/COMPONENTS, AND PLACE IN A SECURE AREA. COORDINATE WITH DISTRICT TECHNOLOGY AND MAINTENANCE DEPARTMENTS FOR STORAGE.
3. CONTRACTOR SHALL COORDINATE WITH ARCHITECT PRIOR TO REMOVAL OF ANY LOW-VOLTAGE SYSTEM, AND PROVIDE PRICING FOR THE REPAIR/REPLACEMENT OF FAULTY DEVICES/CABLING. REFER TO SPECIFICATIONS FOR INFORMATION PERTAINING TO SYSTEMS NEEDING REPLACEMENT
4. CONTRACTOR MUST PROVIDE A CHECKLIST OF FUNCTIONING AND NON-FUNCTIONING EQUIPMENT/COMPONENTS IN DESIGNATED DEMOLITION AREAS PER ARCHITECTURAL PLANS AND FURNISH THEM TO THE DISTRICT. EXISTING EQUIPMENT AND COMPONENTS INCLUDE BUT NOT LIMITED TO: CAMERAS AND HEAD-END EQUIPMENT, INTRUSION SYSTEM AND COMPONENTS, ANY INDICATED LOCAL AUDIO/VIDEO SYSTEMS AND COMPONENTS. ALL TECHNOLOGY CABLING SHALL BE NEW FOR INDICATED SYSTEMS; THEREFORE, ANY EXISTING SYSTEM-RELATED LOW-VOLTAGE CABLING IN AREAS OF DEMOLITION MUST BE REMOVED.
5. REMOVE EXISTING WIRE-MOLDS AND ON-WALL CABLE RACEWAYS FROM LOW VOLTAGE DEVICES AS INDICATED IN DEMOLITION AREAS IN THEIR ENTIRETY.
6. IN ANY CEILING RENNOVATION AREAS, STORE EXISTING CEILING-MOUNTED ACCESS POINTS IN A COOL AND DRY AREA FOR REUSE. CONTRACTOR SHALL REINSTALL DEVICE IN LOCATION INDICATED BY LUSD TECHNOLOGY DEPARTMENT. CONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR MAINTAINING FUNCTIONALITY OF REMOVED DEVICES.
7. OWNER HAS FIRST RIGHT OF REFUSAL FOR EQUIPMENT.
   a. SUBTEXT (E) = INDICATES A DEVICE THAT IS EXISTING TO REMAIN.
   b. SUBTEXT (R) = INDICATES A DEVICE THAT IS TO BE REMOVED AND RETURNED TO OWNER.
   c. SUBTEXT (RR) = INDICATES AN EXISTING DEVICE THAT IS TO BE REMOVED AND REPLACED IN-PLACE.

TECHNOLOGY DEMO KEYNOTES

TD1 DEMOLISH EXISTING DATA AND TECHNOLOGY DEVICES IN CLASSROOM. NOTE THAT NOT ALL EXISTING DEVICES MAY BE SHOWN ON THESE DRAWINGS. REMOVE ALL CABLING FOR SUBSEQUENT SYSTEMS BACK TO THE SOURCE TO ACCOMMODATE NEW DEVICE LAYOUT IN NEW CONSTRUCTION PHASE.

TD2 EXISTING IDF TO BE RELOCATED TO ADJACENT CLASSROOM. COORDINATE THE DISCONNECTION AND RECONNECTION FROM CURRENT LOCATION TO NEW LOCATION SHOW ON SHEET T2.01'. PRESERVE EXISTING CABLING AS MUCH AS IS FEASIBLE FOR FULL FUNCTIONALITY OF SYSTEM FOR REINSTALLATION AT NEW LOCATION.

TD3 EXISTING MDF TO REMAIN

TD4 EXINSTING IDF TO REMAIN

TD5 INDICATED PORTABLES ARE BEING DEMOLISHED. DISCONNECT ALL TECHNOLOGY SYSTEMS AND IDFS AND REMOVE BACK TO SOURCE. REFER TO TECHNOLOGY DEMO GENERAL NOTES FOR RIGHT OF REFUSAL AND REMOVED DEVICE RETENTION AND STORAGE INSTRUCTIONS.

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

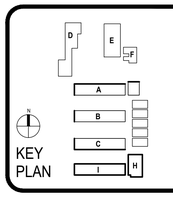
CONSULTANT LEAF Engineers
LEAFENGINEERS.com
LEAF ENGINEERS
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





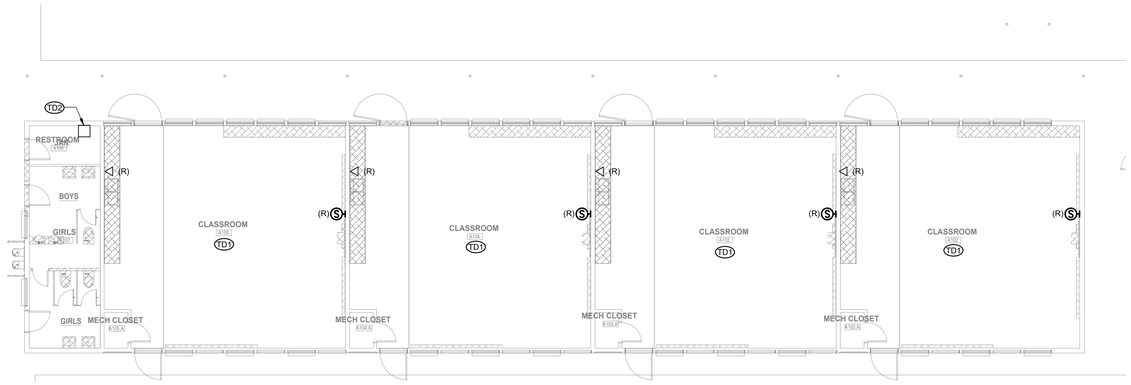
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: REN CHKED BY: G.L.
REVISIONS

#	DESCRIPTION	DATE

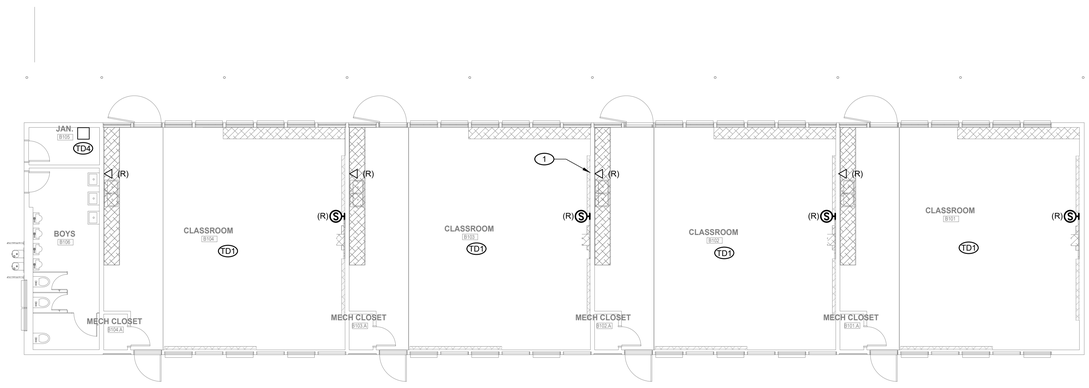
TECHNOLOGY DEMOLITION & SITE PLAN

This document is for plan review only

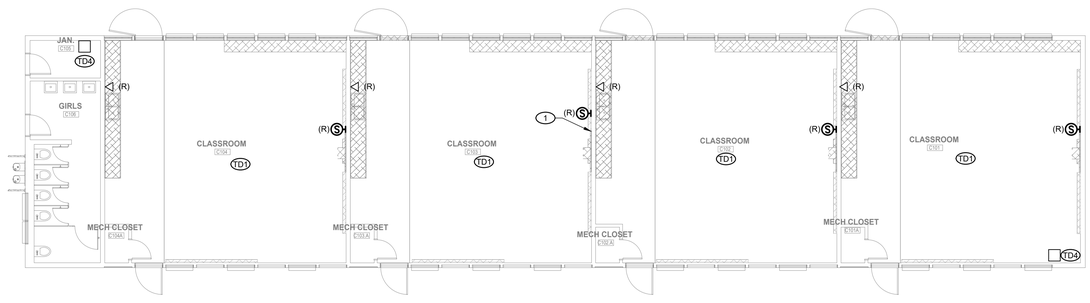
TD1.01



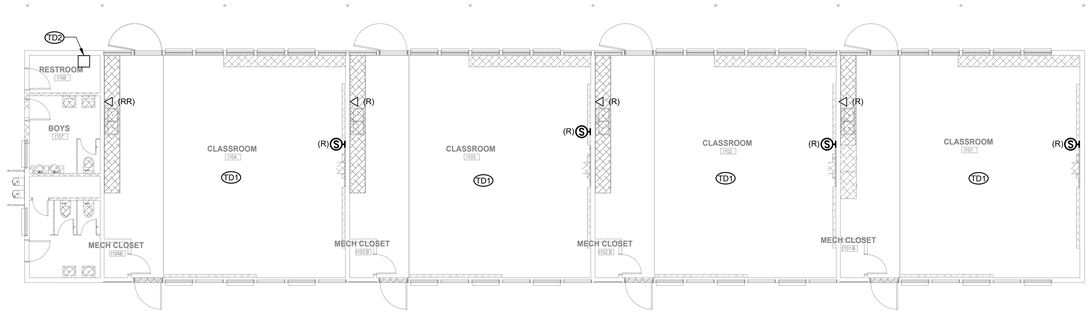
2 TECHNOLOGY DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



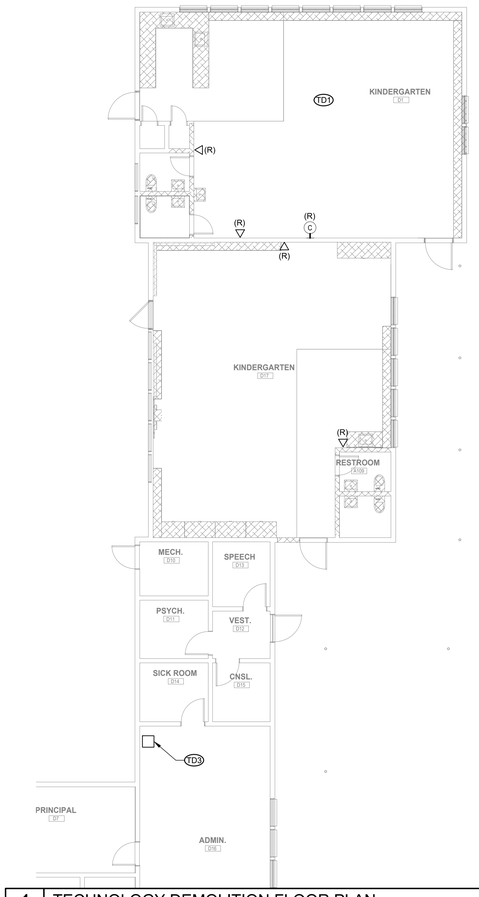
3 TECHNOLOGY DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



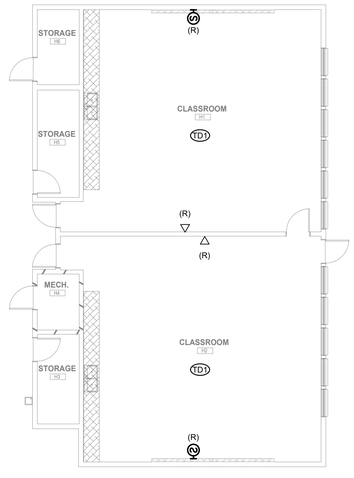
4 TECHNOLOGY DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



5 TECHNOLOGY DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 TECHNOLOGY DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



6 TECHNOLOGY DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"

TECHNOLOGY DEMO GENERAL NOTES

1. EXISTING TECHNOLOGY DEVICES AND RECEPTACLE LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT ACCURATELY REFLECT ONSITE CONDITIONS. KEYNOTES SHALL APPLY TO ALL EXISTING TECHNOLOGY DEVICES AND RECEPTACLES WITHIN AREAS IN TECHNOLOGY SCOPE OF WORK ONSITE.
2. PRIOR TO DEMOLITION, CONTRACTOR MUST TEST, REMOVE, AND STORE ALL TECHNOLOGY EQUIPMENT/COMPONENTS, AND PLACE IN A SECURE AREA. COORDINATE WITH DISTRICT TECHNOLOGY AND MAINTENANCE DEPARTMENTS FOR STORAGE.
3. CONTRACTOR SHALL COORDINATE WITH ARCHITECT PRIOR TO REMOVAL OF ANY LOW-VOLTAGE SYSTEM, AND PROVIDE PRICING FOR THE REPAIR/REPLACEMENT OF FAULTY DEVICES/CABLING. REFER TO SPECIFICATIONS FOR INFORMATION PERTAINING TO SYSTEMS NEEDING REPLACEMENT
4. CONTRACTOR MUST PROVIDE A CHECKLIST OF FUNCTIONING AND NON-FUNCTIONING EQUIPMENT/COMPONENTS IN DESIGNATED DEMOLITION AREAS PER ARCHITECTURAL PLANS AND FURNISH THEM TO THE DISTRICT. EXISTING EQUIPMENT AND COMPONENTS INCLUDE BUT NOT LIMITED TO: CAMERAS AND HEAD-END EQUIPMENT, INTRUSION SYSTEM AND COMPONENTS, ANY INDICATED LOCAL AUDIO/VIDEO SYSTEMS AND COMPONENTS. ALL TECHNOLOGY CABLING SHALL BE NEW FOR INDICATED SYSTEMS; THEREFORE, ANY EXISTING SYSTEM-RELATED LOW-VOLTAGE CABLING IN AREAS OF DEMOLITION MUST BE REMOVED.
5. REMOVE EXISTING WIRE-MOLDS AND ON-WALL CABLE RACEWAYS FROM LOW VOLTAGE DEVICES AS INDICATED IN DEMOLITION AREAS IN THEIR ENTIRETY.
6. IN ANY CEILING RENNOVATION AREAS, STORE EXISTING CEILING-MOUNTED ACCESS POINTS IN A COOL AND DRY AREA FOR REUSE. CONTRACTOR SHALL REINSTALL DEVICE IN LOCATION INDICATED BY LUSD TECHNOLOGY DEPARTMENT. CONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR MAINTAINING FUNCTIONALITY OF REMOVED DEVICES.
7. OWNER HAS FIRST RIGHT OF REFUSAL FOR EQUIPMENT.
   a. SUBTEXT (E) = INDICATES A DEVICE THAT IS EXISTING TO REMAIN.
   b. SUBTEXT (R) = INDICATES A DEVICE THAT IS TO BE REMOVED AND RETURNED TO OWNER.
   c. SUBTEXT (RR) = INDICATES AN EXISTING DEVICE THAT IS TO BE REMOVED AND REPLACED IN-PLACE.

TECHNOLOGY DEMO KEYNOTES

- TD1 DEMOLISH EXISTING DATA AND TECHNOLOGY DEVICES IN CLASSROOM. NOTE THAT NOT ALL EXISTING DEVICES MAY BE SHOWN ON THESE DRAWINGS. REMOVE ALL CABLING FOR SUBSEQUENT SYSTEMS BACK TO THE SOURCE TO ACCOMMODATE NEW DEVICE LAYOUT IN NEW CONSTRUCTION PHASE.
- TD2 EXISTING IDF TO BE RELOCATED TO ADJACENT CLASSROOM. COORDINATE THE DISCONNECTION AND RECONNECTION FROM CURRENT LOCATION TO NEW LOCATION SHOW ON SHEET T2.01. PRESERVE EXISTING CABLING AS MUCH AS IS FEASIBLE FOR FULL FUNCTIONALITY OF SYSTEM FOR REINSTALLATION AT NEW LOCATION.
- TD3 EXISTING MDF TO REMAIN
- TD4 EXINSTING IDF TO REMAIN
- TD5 INDICATED PORTABLES ARE BEING DEMOLISHED. DISCONNECT ALL TECHNOLOGY SYSTEMS AND IDFS AND REMOVE BACK TO SOURCE. REFER TO TECHNOLOGY DEMO GENERAL NOTES FOR RIGHT OF REFUSAL AND REMOVED DEVICE RETENTION AND STORAGE INSTRUCTIONS.

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

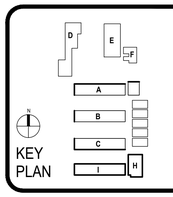
CONSULTANT LEAF Engineers
LEAFENGINEERS.com
LEAF ENGINEERS
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





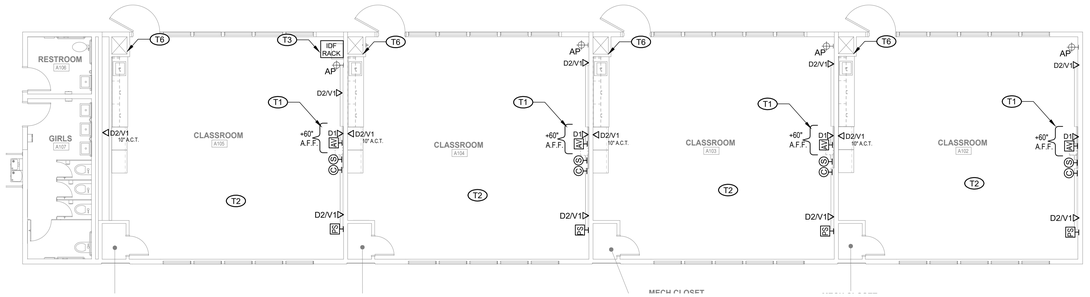
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: REN CHKED BY: G.L.
REVISIONS

#	DESCRIPTION	DATE

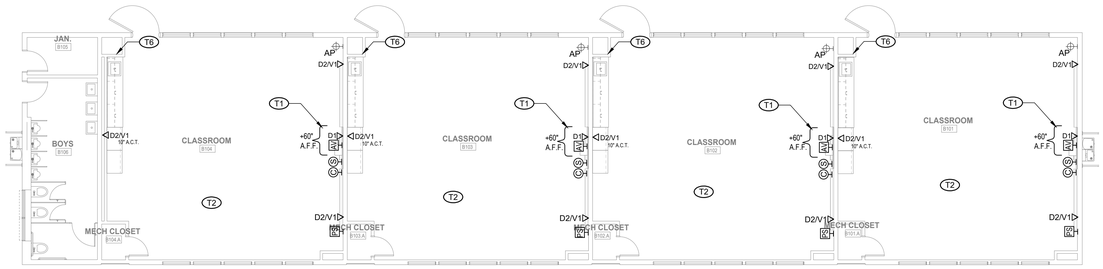
TECHNOLOGY DEMOLITION FLOOR PLANS

This document is for plan review only

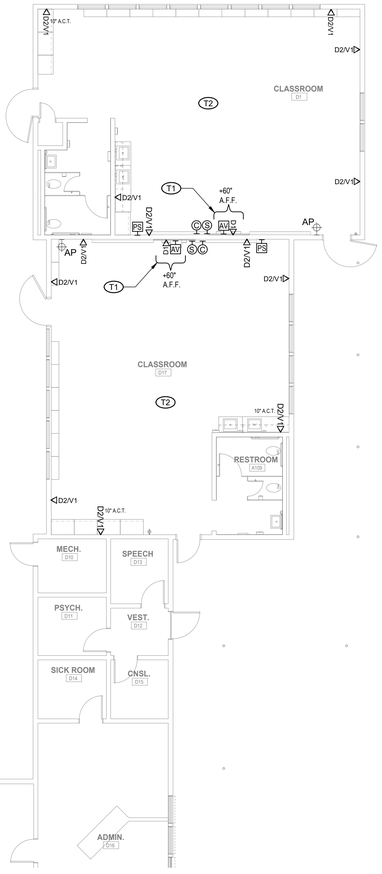
TD2.01



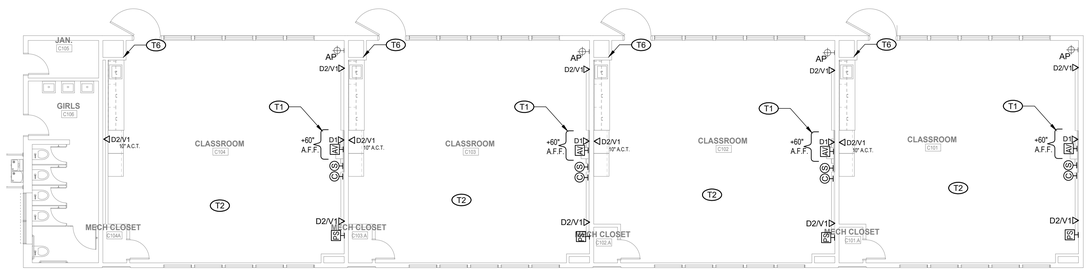
2 TECHNOLOGY FLOOR PLAN
SCALE: 1/8" = 1'-0"



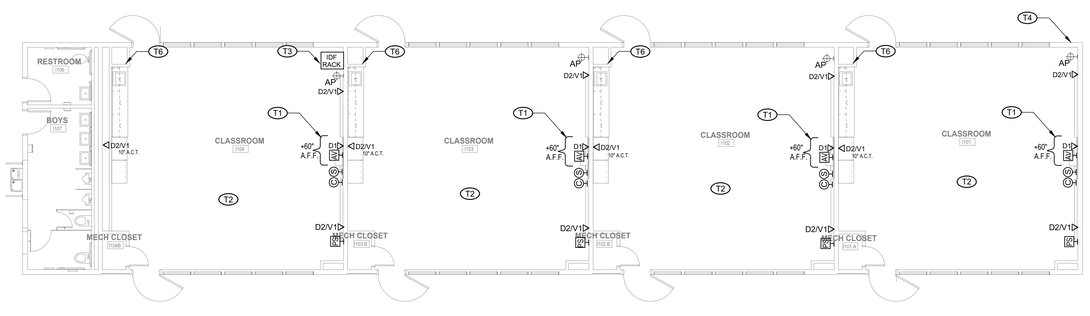
3 TECHNOLOGY FLOOR PLAN
SCALE: 1/8" = 1'-0"



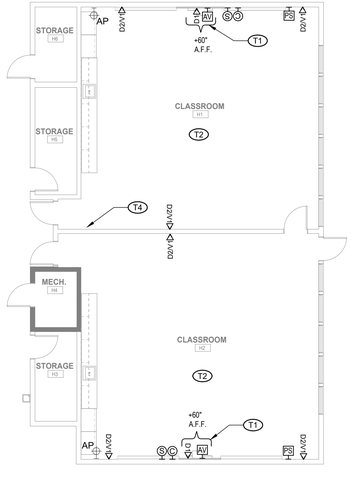
1 TECHNOLOGY FLOOR PLAN
SCALE: 1/8" = 1'-0"



4 TECHNOLOGY FLOOR PLAN
SCALE: 1/8" = 1'-0"



5 TECHNOLOGY FLOOR PLAN
SCALE: 1/8" = 1'-0"



6 TECHNOLOGY FLOOR PLAN
SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

1. CONTRACTOR TO CONSTRUCT , SET RACKS AND/OR CABINETS IN PROPOSED LOCATIONS, AND CONTACT TECHNOLOGY CONSULTANT PRIOR TO PERMANENTLY SECURING RACKS IN PLACE. NO RACK SHALL BE PERMANENTLY SET UNTIL WRITTEN APPROVAL IS GIVEN.
2. CONTRACTOR SHALL PROVIDE AND INSTALL WALL BOX ELIMINATOR (ERICO CADDY PART # MPLS OR EQUIVALENT) AND PULL STRING FOR THE INSTALLATION OF CABLING, FACEPLATES, AND/OR EQUIPMENT.
3. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AS ESTABLISHED BY THE EIA AND THE NEC.
4. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
5. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
6. ALL INDUSTRY STANDARD CATEGORY 6 CABLING PRACTICES MUST BE FOLLOWED FOR ALL DATA CABLING.
7. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.
8. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
9. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED WITH WRAPPING LABEL AT BOTH ENDS. LABEL ALL CABLES PER SPECIFICATIONS.
10. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS.
11. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.
12. NO TERMINATION'S OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.
13. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES REQUIRED TO INSTALL COMMUNICATION CABLING THROUGH RATED WALLS. ALL TECHNOLOGY SYSTEM CONDUIT SLEEVES SHALL HAVE PROTECTIVE BUSHING ON BOTH ENDS, BE DEDICATED FOR TECHNOLOGY SYSTEMS ONLY AND SHALL NOT SHARE WITH OTHER BUILDING TRADES.
14. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
15. CONTRACTOR SHALL ROUTE ALL FIBER/VOICE/DATA THROUGH RACEWAYS DOWN WALLS AND CEILING CABLE CHASE UNLESS PLENUM, DOWN-WALL, OR CRAWLSPACE PATH IS AVAILABLE WITHIN STANDARDS.
16. ALL CABLING SHALL BE PROPERLY SUPPORTED FROM ACCEPTABLE SUPPORT SYSTEMS AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. ALL CABLING SHALL BE ROUTED IN DEDICATED CABLE SUPPORT SYSTEM ONLY.
17. CONTRACTOR TO PROVIDE ALL REQUIRED CABLING TO CONNECT THE FIRE ALARM SYSTEM, BUILDING AUTOMATION SYSTEM, AND THE SECURITY SYSTEM TO BUILDINGS MOF. COORDINATE REQUIREMENTS WITH SYSTEM CONTRACTORS.
18. ALL TECHNOLOGY OUTLETS SHALL BE INSTALLED NEW AND RAN THROUGH RACEWAY DOWN WALLS ONLY IF FLUSH-MOUNT SOLUTION IS UNAVAILABLE IN GIVEN SPACE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A WALL BOX ELIMINATOR (ERICO CADDY PART # MPLS OR EQUIVALENT) AND PULL STRING TO THE NEAREST PLENUM CEILING AT LOCATIONS WHERE IN-WALL CONDUIT IS INSTALLED.
19. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL RACEWAY AND WALL BOXES FOR OUTLETS SHOWN ON THE ENTIRE PROJECT.
20. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.

KEYNOTES

- (T1) INDICATES WALL MOUNTED OFCI PROMETHEAN DISPLAY. CONTRACTOR TO PROVIDE MOUNTING HARDWARE FOR PANEL. PROVIDE FACEPLATE CENTERED BENEATH SCREEN WITH HDMI PASS-THROUGH. SEE DETAIL 2 ON T6.01 FOR TYPICAL MOUNTING AND WIRING TO 'PS' PLATE.
- (T2) PROVIDE NEW DATA PORTS IN CLASSROOM. CONNECT NEW DATA PORTS AND DEVICES TO NEAREST EXISTING OR NEW MDF/IDF. ALL DEVICES SHOWN ARE NEW AND ARE TO BE PROVIDED BY THE CONTRACTOR.
- (T3) REINSTALL EXISTING IDF CABINET IN NEW LOCATION. VERIFY FINAL LOCATION PRIOR TO INSTALLATION. RECONNECT PRESERVED, EXISTING DATA CABLING TO IDF CABINET PATCH PANEL, EXTENDING RACEWAYS AND CABLING AS NECESSARY FOR FULLY FUNCTIONING SYSTEM ACCORDING TO SPECIFICATIONS AND DISTRICT STANDARDS. CONTRACTOR SHALL PROVIDE DEDICATED ELECTRICAL CIRCUIT TO RACK ON ITS OWN BREAKER IN NEAREST ELECTRICAL PANEL.
- (T4) EXISTING SIGNAL JUNCTION BOX AND PATHWAY BETWEEN BUILDING 'I' AND BUILDING 'H'. UTILIZE FOR ROUTING NEW CABLING FROM NEW DEVICES IN BUILDING 'H' TO CONNECT TO IDF. CONTRACTOR SHALL CHECK CONDUIT FILL PRIOR TO ROUGH-IN AND SUPPLY ADDITIONAL CONDUIT PATHWAYS AS REQUIRED FOR 40 PERCENT CONDUIT FILL IN ACCORDANCE WITH DISTRICT STANDARDS.
- (T6) INDICATES APPROXIMATE LOCATION OF VERTICAL WALL CHASE FOR ROUTING THROUGH CRAWLSPACE INTO CLASSROOM AREAS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL

5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2026
ELECTRICAL
STATE OF CALIFORNIA

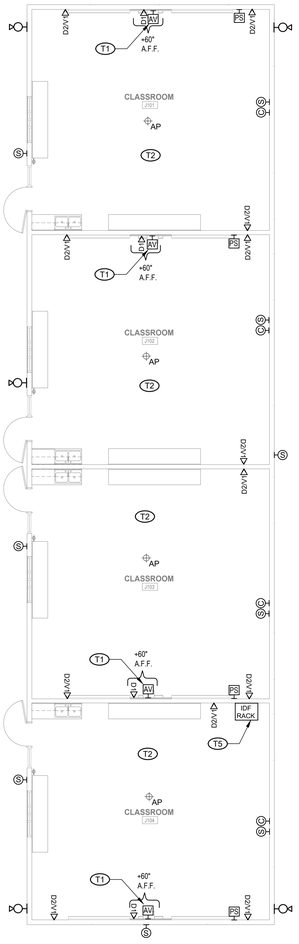
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
23021?
DATE 08/22/2025
DRAWN BY: KEN CHKED BY: G.L.
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

TECHNOLOGY FLOOR PLAN

T2.01



7 TECHNOLOGY FLOOR PLAN - NEW MODULAR BUILDING
SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

1. CONTRACTOR TO CONSTRUCT , SET RACKS AND/OR CABINETS IN PROPOSED LOCATIONS, AND CONTACT TECHNOLOGY CONSULTANT PRIOR TO PERMANENTLY SECURING RACKS IN PLACE. NO RACK SHALL BE PERMANENTLY SET UNTIL WRITTEN APPROVAL IS GIVEN.
2. CONTRACTOR SHALL PROVIDE AND INSTALL WALL BOX ELIMINATOR (ERICO CADDY PART # MPLS OR EQUIVALENT) AND PULL STRING FOR THE INSTALLATION OF CABLING, FACEPLATES, AND/OR EQUIPMENT.
3. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AS ESTABLISHED BY THE EIA AND THE NEC.
4. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
5. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
6. ALL INDUSTRY STANDARD CATEGORY 6 CABLING PRACTICES MUST BE FOLLOWED FOR ALL DATA CABLING.
7. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.
8. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
9. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED WITH WRAPPING LABEL AT BOTH ENDS. LABEL ALL CABLES PER SPECIFICATIONS.
10. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS.
11. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.
12. NO TERMINATION'S OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.
13. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES REQUIRED TO INSTALL COMMUNICATION CABLING THROUGH RATED WALLS. ALL TECHNOLOGY SYSTEM CONDUIT SLEEVES SHALL HAVE PROTECTIVE BUSHING ON BOTH ENDS, BE DEDICATED FOR TECHNOLOGY SYSTEMS ONLY AND SHALL NOT SHARE WITH OTHER BUILDING TRADES.
14. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
15. CONTRACTOR SHALL ROUTE ALL FIBER/VOICE/DATA THROUGH RACEWAYS DOWN WALLS AND CEILING CABLE CHASE UNLESS PLENUM, DOWN-WALL, OR CRAWLSPACE PATH IS AVAILABLE WITHIN STANDARDS.
16. ALL CABLING SHALL BE PROPERLY SUPPORTED FROM ACCEPTABLE SUPPORT SYSTEMS AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. ALL CABLING SHALL BE ROUTED IN DEDICATED CABLE SUPPORT SYSTEM ONLY.
17. CONTRACTOR TO PROVIDE ALL REQUIRED CABLING TO CONNECT THE FIRE ALARM SYSTEM, BUILDING AUTOMATION SYSTEM, AND THE SECURITY SYSTEM TO BUILDINGS MDF. COORDINATE REQUIREMENTS WITH SYSTEM CONTRACTORS.
18. ALL TECHNOLOGY OUTLETS SHALL BE INSTALLED NEW AND RAN THROUGH RACEWAY DOWN WALLS ONLY IF FLUSH-MOUNT SOLUTION IS UNAVAILABLE IN GIVEN SPACE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A WALL BOX ELIMINATOR (ERICO CADDY PART # MPLS OR EQUIVALENT) AND PULL STRING TO THE NEAREST PLENUM CEILING AT LOCATIONS WHERE IN-WALL CONDUIT IS INSTALLED.
19. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL RACEWAY AND WALL BOXES FOR OUTLETS SHOWN ON THE ENTIRE PROJECT.
20. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.

KEYNOTES

(T1) INDICATES WALL MOUNTED OFCI PROMETHEAN DISPLAY. CONTRACTOR TO PROVIDE MOUNTING HARDWARE FOR PANEL. PROVIDE FACEPLATE CENTERED BENEATH SCREEN WITH HDMI PASS-THROUGH. SEE DETAIL 2 ON T6.01 FOR TYPICAL MOUNTING AND WIRING TO 'PS' PLATE.

(T2) PROVIDE NEW DATA PORTS IN CLASSROOM. CONNECT NEW DATA PORTS AND DEVICES TO NEAREST EXISTING OR NEW MDF/IDF. ALL DEVICES SHOWN ARE NEW AND ARE TO BE PROVIDED BY THE CONTRACTOR.

(T5) INDICATES LOCATION OF NEW CFCI IDF RACK. FIBER INTERCONNECT ROUTING THROUGH NEW UNDERGROUND CONDUIT FROM BUILDING 'I' IDF TO INDICATED NEW IDF RACK. CONTRACTOR SHALL PROVIDE DEDICATED POWER ON ITS OWN BREAKER IN NEAREST ELECTRICAL PANEL.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

PBK

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

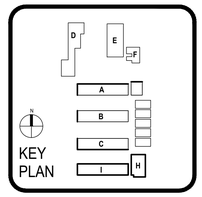
CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT





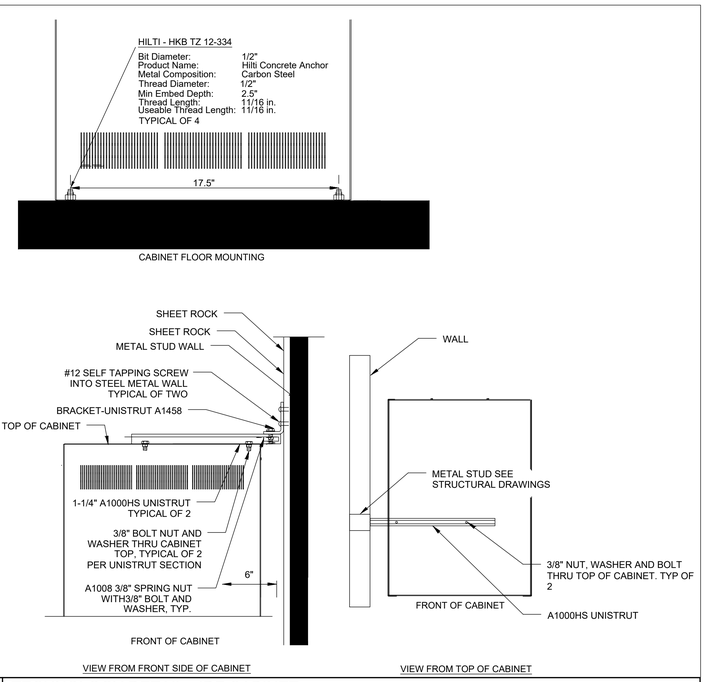
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: KEN CHKED BY: G.L.
REVISIONS

#	DESCRIPTION	DATE

TECHNOLOGY FLOOR PLAN - NEW MODULAR BUILDING

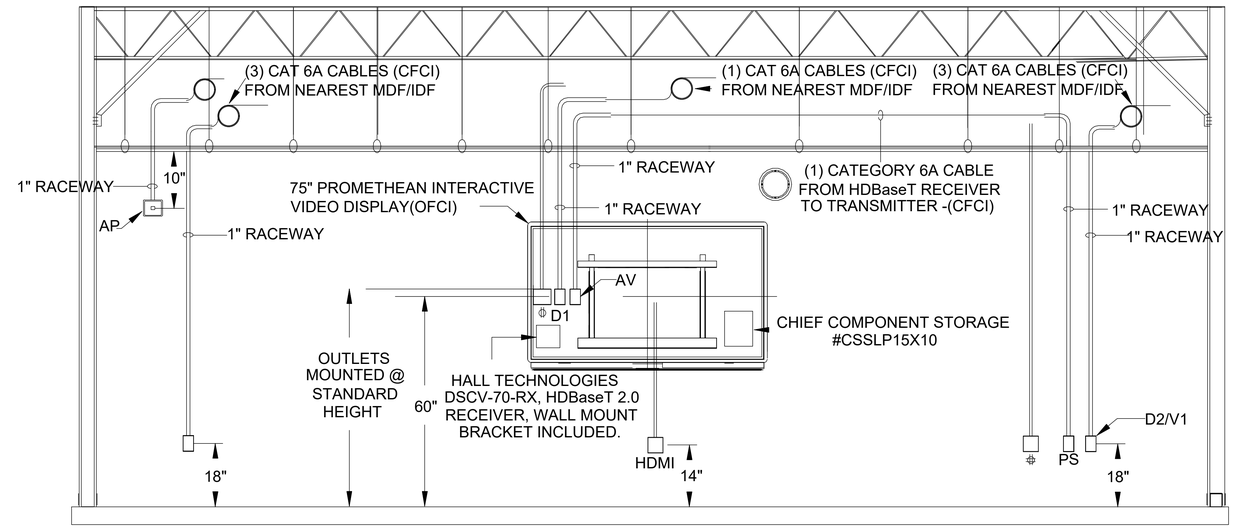
T2.02

This document is for plan review only



1 TECHNOLOGY DETAIL - IDF CABINET
SCALE: 1" = 0'-6"

ALL CAT 6A CABLES SHALL BE ROUTED THROUGH CEILING CHASE FROM WALL RACEWAYS TO NEAREST IDF/MDF



2 TECHNOLOGY DETAIL - TYPICAL CLASSROOM AV
SCALE: 1" = 0'-6"

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

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

CONSULTANT LEAF Engineers
LEAFENGINEERS.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

DAVIS ELEMENTARY SCHOOL MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
DAVIS ELEMENTARY SCHOOL
5224 EAST MORADA LANE
STOCKTON, CA 95212

DSA APPL. NO. 02-123250 FILE NO. 39-50

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-2028
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230217
DATE 08/22/2025
DRAWN BY: REN CHKED BY: G.L.
REVISIONS

#	DESCRIPTION	DATE

TECHNOLOGY DETAILS

This document is for plan review only

T6.01

DESIGN CRITERIA	
BASE LOCATION LOCATED AT BOTTOM OF BASEPLATE/TOP OF FOOTING	
DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	5 PSF MAX
ROOF PANEL DEAD LOAD	M=1.1 PSF, G = 1.2 PSF, S = 1.3 PSF
COLLATERAL DEAD LOAD	M = 3.9 PSF, G = 3.8 PSF, S = 3.7 PSF
ROOF LIVE LOAD	
ROOF LIVE LOAD, L_r	20 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD, P_g	20 PSF
RISK CATEGORY	II
ROOF SNOW LOAD: SLOPED, P_s	20 PSF
FOR SNOW LOAD CONDITIONS ONLY - SITE APPLICATION REVIEWER SHALL VERIFY THE STTRUCTURE SHALL BE LOCATED AT LEAST 20 FEET	
FROM ANY ADJACENT STRUCTURE FOR SNOW DRIFT.	
SNOW LOAD SLOPE FACTOR, C_s	1.0
SNOW LOAD EXPOSURE FACTOR, C_e	1.0
SNOW LOAD IMPORTANCE FACTOR, I_s	1.0
THERMAL FACTOR, C_t	1.2
LOWEST ANTICIPATED SERVICE TEMPERATURE	30
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), V_{ult}, V_{asd}	100 MPH, 78 MPH
RISK CATEGORY	II
EXPOSURE CATEGORY	C
FACTORS: K_d, K_{zt}, K_z	0.85, 1.0, 0.85
q_h = 0.00256 K_z K_{zt} K_d V^2	18.50 PSF
C_{NW} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASE A (1.1 / -1.2) CASE B (0.01 / -0.69)
C_{NL} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)
C_L PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (< h)	CASE A (-0.8 / -1.2) CASE B (0.8 / 0.5)
C_L PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (> h, < 2h)	CASE A (-0.6 / -0.9) CASE B (0.5 / 0.5)
C_L PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (>2h)	CASE A (-0.3 / -0.6) CASE B (0.3 / 0.3)
COMPONENTS & CLADDING - C_N (PRESSURE/SUCTION) CLEAR / OBSTRUCTED	ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0)
	ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3)
	ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)
SEISMIC DESIGN	
LATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
SEISMIC IMORTANCE FACTOR, I_e	1.0
SEISMIC SITE CLASS	D
MCE_R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_S	2.60
MCE_R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_1	0.90
SHORT PERIOD SITE COEFFICIENT, F_a	1.20
LONG PERIOD COEFFICIENT, F_v	1.70
FUNDAMENTAL PERIOD OF THE STRUCTURE, T (WORST CASE FOR ALL STRUCTURES)	0.152 s
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS}	2.08 ☐
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS} - USED TO DETERMINE Cs (WITH CAP PER ASCE 7 12.8.1.3) SOIL PROPERTIES MAY NOT BE CLASSIFIED AS SITE CLASS E.	2.08 * 0.70 = 1.456 ☐
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-s PERIODS, S_{D1}	1.02
SEISMIC DESIGN CATEGORY	E
SITE SPECIFIC RESPONSE ANALYSIS NOT REQUIRED PER ASCE 7 11.4.8 EXCEPTION 2	T_s = 0.49 s / T < 1.5 * T_s
RESPONSE MODIFICATION FACTOR, R	1.25
OVERSTRENGTH FACTOR, Ω	1.25
REDUNDANCY FACTOR, ρ	1.0
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE
SEISMIC RESPONSE COEFFICIENT, C_s (20' WIDE, 30' WIDE, 40' WIDE)	1.16 / 1.00 / 1.00
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE) (WORST CASE)	10.62 PSF ☐ / 12.70 PSF ☐ / 12.85 PSF ☐
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	VARIES - SEE FOUNDATION CHARTS
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA	
IF PROJECT IS LOCATED IN A FLOOD ZONE OTHERTHAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.	

STRUCTURAL SEPARATION

ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IR PC-7

SEPARATION IS THE SUM OF 2 OF THESE SELECTED DEFLECCTION

DEFLECTIONS ARE FOR (1) STRUCTURE

SOIL CLASSES PER CBC TABLE 1806A.2

MAXIMUM DRIFT δ_{max} SIDE COLUMNS

	Soil Class 5	Soil Class 4	Soil Class 3
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.40~~	~~[ ] 2.55~~	~~[ ] 2.65~~
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[X] 2.15	[ ] 2.30	[ ] 2.40
~~40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.29~~	~~[ ] 2.29~~	~~[ ] 2.39~~
MINIMUM SEPARATION ($\delta_m = Cd\ \delta_{max}$) Cd = 1.25			
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 3.00~~	~~[ ] 3.19~~	~~[ ] 3.31~~
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[X] 2.69	[ ] 2.88	[ ] 3.00
~~40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.75~~	~~[ ] 2.75~~	~~[ ] 2.86~~

MAXIMUM DRIFT δ_{max} END COLUMNS

	Soil Class 5	Soil Class 4	Soil Class 3
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.40~~	~~[ ] 2.55~~	~~[ ] 2.65~~
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[X] 2.15	[ ] 2.30	[ ] 2.40
~~40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.29~~	~~[ ] 2.29~~	~~[ ] 2.39~~
MINIMUM SEPARATION ($\delta_m = Cd\ \delta_{max}$) Cd = 1.25			
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 3.00~~	~~[ ] 3.19~~	~~[ ] 3.31~~
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[X] 2.69	[ ] 2.88	[ ] 3.00
~~40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.75~~	~~[ ] 2.75~~	~~[ ] 2.86~~

INSTRUCTIONS FOR ARCHITECTS SUBMITTING THESE PRE-CHECKED DRAWINGS TO DSA:

BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS:

STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT
- GABLE STRUCTURES UP TO 20' WIDE USE THE "RG 20" BASE FRAME
- GABLE STRUCTURES UP TO 30' WIDE USE THE "RG 30" BASE FRAME
- GABLE STRUCTURES UP TO 40' WIDE USE THE "RG 40" BASE FRAME
- MAXIMUM WIDTH IS 40' (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
- THE 24', 44', 64', 84' AND 104' LENGTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST COMMON (20' BAYS ARE THE MOST ECONOMICAL)
- FRAME LENGTHS ASSUME 2' OVERHANGS (UNO BY ARCHITECT – 2' MAX DIMENSION)

STEP 1	FRAME DIMENSIONS							
		SUGGESTED				OTHER		
	FRAME WIDTH	[ ] 20'	[X] 30'	[ ] 40'		[ ] ~~(40' MAX)~~ 25'		
	FRAME LENGTH	[ ] 44'	[X] 64'	[ ] 84'	[ ] 104'	[ ] (NO MAX)		

STEP 2: SELECT ROOF DECK FOR YOUR PROJECT
- "M" REPRESENTS McELROY METAL "MULTI-RIB" ROOF PANEL
- "G" REPRESENTS McELROY METAL "MEGA-RIB" ROOF PANEL
- "S" REPRESENTS McELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF PANEL

STEP 2	ROOF PANEL				
	ROOF PANEL TYPE	[ ] M	[ ] G	[X] S	

STEP 3: IDENTIFY THE Ss ACCELERATION (g) FOR YOUR PROJECT
- Ss VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
- Ss VAULE DEPENDS ON THE PROJECTS GEOGRAPHICAL LOCATION (VALUES RANGE FROM 0.00 TO 3.73)
  - FIND Ss VALUES FOR YOUR PROJECT ON THE USGS WEB SITE (SEARCH INTERNET FOR "USGS SEISMIC DESIGN MAPS")

STEP 3	PROJECT SITE – Ss ACCELERATION (g)
	0.645

STEP 4: IDENTIFY THE Ss REGION FOR YOUR PROJECT
- THE REGIONS ARE DEPENDANT ON THE Ss VALUE DETERMINED IN STEP 3
- THE Ss REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED ON THE FRAME

STEP 4	Ss REGION			
			Ss REGIONS	MAX DEAD LOAD
	DESCRIPTION	X	0 < Ss <= 2.14	5 PSF
			2.14 < Ss <= 2.60	5 PSF
			2.60 < Ss <= 3.60	5 PSF

STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT
- THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
- THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME
- BE SURE THE TOTAL ROOF DEAD LOAD FOR YOUR PROJECT IS LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4 FOR YOUR Ss VALUE
- Sds VALUE USED IN CALCULATION IS THE CAPPED Sds (SEE DESIGN CRITERIA)

STEP 5	TOTAL ROOF DEAD LOAD		
		DEAD LOAD	EXAMPLES
	ROOF DECK	1.3 PSF	M=1.1PSF; G=1.2PSF ;S=1.3PSF (SEE STEP 2)
	COLLATERAL	0 PSF	LIGHTNING,FIRE SUPPRESSION,SOLAR PANELS,ETC
	TOTAL	1.3 PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)

STEP 6: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT
- IDENTIFY SOIL CLASS FOR PROJECT SITE PER SITE SPECIFIC SOIL CONDITIONS
- USE THIS TO SELECT CORRECT FOUNDATION SIZE ON FOUNDATION SHEET

AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT

STEP 6	FOUNDATION REQUIREMENTS		
	[X] GEOTECHNICAL REPORT NOT REQUIRED	[ ] GEOTECHNICAL REPORT REQUIRED	
	SOIL CLASS 5 (BEARING) 1500 PSF [X]	SOIL CLASS 4 (BEARING) 2000 PSF [ ]	SOIL CLASS 3 (BEARING) 3000 PSF [ ]
	SOIL CLASS 5 (LATERAL BEARING) 200 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 300 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 400 PSF/FT
	COHESION 130 PSF	FRICTION COEFFICIENT 0.25	FRICTION COEFFICIENT 0.30

STEP 7: SELECT MISCELLANEOUS OPTIONS FOR YOUR PROJECT
- MAXIMUM CLEAR HEIGHT IS 12'-0". (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
- MARK UP PC DRAWINGS WITH SIZE AND LOCATION OF CUTOUTS BEFORE SUBMITTING TO DSA

STEP 7	MISCELLANEOUS		
		DESIGN OPTIONS	
	CLEAR HEIGHT	[ ] 8' [ ] 10' [X] 12'	[ ] ' (12' MAX)
	ELECTRICAL CUTOUTS	[ ] YES	[X] NO
	GUTTERS	[X] YES	[ ] NO

STEP 8: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT
- REFERENCE THE BASE FRAME (STEP 1) AND THE ROOF PANEL TYPE (STEP 2)
- IDENTIFY THE APPLICABLE SHEET INDEX

STEP 8	SHEET INDEX											
	BASE FRAME	RG 20			RG 30			RG 40				
	ROOF PANEL TYPE	M	G	S	M	G	S	M	G	S		
	SELECT ONE	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[ ]	[ ]	[ ]		
	GENERAL NOTES	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0		
	FOUNDATION PLAN	LS2.0	LS2.0	LS2.0	LS3.0	LS3.0	LS3.0	LS4.0	LS4.0	LS4.0		
	FRAMING PLAN	LS2.1	LS2.1	LS2.1	LS3.1	LS3.1	LS3.1	LS4.1	LS4.1	LS4.1		
	FRAME CONNECTION DETAILS	LS2.1	LS2.1	LS2.1	LS3.1	LS3.1	LS3.1	LS4.1	LS4.1	LS4.1		
	ROOFING LAYOUT & DETAILS	LS2.2	LS2.3	LS2.4	LS3.2	LS3.3	LS3.4	LS4.2	LS4.3	LS4.4		
	MISC DESIGN OPTIONS	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0		
	DSA 103 EXAMPLE	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3		
	"											
	"											

STEP 9: INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL
- INCLUDE "MISC DESIGN OPTIONS" SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS

STEP 10: IDENTIFY PROJECT NAME AND LOCATION

PROJECT NAME:	SCHOOL DISTRICT:
DAVIS ES MODERNIZATION	LODI UNIFIED SCHOOL DISTRICT

STEP 11: CROSS OUT EXAMPLE 103 FORMS & INCORPORATE REQUIRED SPECIAL INSPECTIONS 103 FORMS THAT ARE PROJECT SPECIFIC

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

SELECT ONE

SNOW
Pg = 0 psf
Pf = 0 psf
Ce = 0 psf

WIND
V = 100 mph < XX mph
Kzt = 1.0 <1
EXPOSURE: C[X] D[ ]

SIESMIC
[X] DESIGN BASED ON SITE CLASS D
NO GEOTECHNICAL INVESTIGATION REQUIRED
Ss = 0.645 Fa = 1.2

[ ] DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
GEOTECHNICAL INVESTIGATION PROVIDED
SITE CLASS: C[ ] D[ ] E[ ]
Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3, TABLE 11.4-1

[ ] DESIGN BASED ON SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, Sds, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT
CGS APPROVAL REQUIRED
NOT ELEGIBLE FOR OTC REVIEW
SITE CLASS: C[ ] D[ ] E[ ]

Sds = Fa Ss = 0.552

[X] SITE CLASS C or D: 0.7 x Sds* = 0.7 x 0.552 = 0.386 ≤ X.XX
[ ] SITE CLASS E: Sds = _____ ≤ X.XX
Cs= X.XXX USED IN DESIGN
SEISMIC DESIGN CATEGORY D[X] E[ ]
*SITE SPECIFIC Sds VALUE BEFORE APPLYING REDUCTION ALLOWED BY ASCE 7 SECTION 12.8.1.3

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M	MULTI-RIB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATLS	NO	NUMBER
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
CJP	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	SQ	SQUARE
IN	INCHES	SS	STANDING SEAM ROOF PANEL (MCELROY)
KSI	KIPS PER SQUARE INCH	TYP	TYPICAL
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
MISC	MISCELLANEOUS	W/	WITH

ARCHITECTURAL REQUIREMENTS

DESCRIPTION	DESIGN VAULES
TYPE OF CONSTRUCTION	II-B
OCCUPANCY CLASSIFICATION	A-3
NUMBER OF STORIES	1
FIRE SPRINKLER SYSTEM	NOT BY ICON/WEIGHT NOT INCLUDED IN DESIGN
~~MOST COMMON RG20 MIN/MAX SQ.FT (SEE STEP 1)~~	~~480/2,080~~
MOST COMMON RG30 MIN/MAX SQ.FT (SEE STEP 1)	720/3,120
~~MOST COMMON RG40 MIN/MAX SQ.FT (SEE STEP 1)~~	~~960/4,160~~

AREA OVER 4000 SQFT REQUIRES GEOHAZARD REPORT
ALLOWABLE AREA FOR II-B / A-3 IS 9500 SQ.FT

RELATED BUILDING CODES AND STANDARDS

TITLE 24 CODES:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC).....(PART 1, TITLE 24, CCR)
2022 CALIFORNIA BUILDING CODE (CBC),PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE.....(PART 3, TITLE 24, CCR)
2022 CALIFORNIA MECHANICAL CODE (CMC).....(PART 4, TITLE 24, CCR)
2022 CALIFORNIA PLUMBING CODE (CPC).....(PART 5, TITLE 24, CCR)
2022 CALIFORNIA ENERGY CODE.....(PART 6, TITLE 24, CCR)
2022 CALIFORNIA FIRE CODE (CFC) .....(PART 9, TITLE 24, CCR)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE.....(PART 11, TITLE 24, CCR)
2022 CALIFORNIA REFERENCE STANDARDS CODE.....(PART 12, TITLE 24, CCR)
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:
2022 CBC, CHAPTER 35
2022 CFC, CHAPTER 80

SCOPE OF WORK NARRATIVE

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF HOLLOW STRUCTURAL STEEL MEMBERS SUPPORTED BY CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THE STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST BREA, CA 92821
T. 714.524.1870 F. 714.524.1875
WWW.JRMA.COM

Aug 31, 2023

GENERAL INFO

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.

1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS1.0

PRINTED ON :

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

GENERAL:

1. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
2. WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C. TITLE 24, AND ALL STATE AND FEDERAL REGULATIONS.
3. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS, ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISIT TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION.
6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS, EXCEPT AS AMENDED BY CBC CHAPTER 35.
7. CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
8. THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
9. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
10. THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF INSTALLATION.
11. SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIREMENTS. SEE CBC CHAPTER 7A FOR REQUIREMENTS
12. LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), Fy = 46 KSI. MIN.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, Fy = 36 KSI.
6. ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, Fy= 50 KSI.
7. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, CS = TYPE B, Fy = 50 KSI Fu = 65 KSI
8. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
9. ALL ROOF DECKS SHALL HAVE KYNAR 500 METAL COATING.
10. ALL ROOF DECKS SHALL CONFORM TO ASTM A-792, Fy = 50 KSI.
11. ALL BASE CONNECTIONS ARE A PART OF THE LATERAL FORCE RESISTING SYSTEM

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

1. PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
2. FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
3. FOR THE SITE SPECIFIC PROJECT, J.R. MILLER & ASSOCIATES' RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC ONLY.
4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM J.R. MILLER & ASSOCIATES' RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK.
6. J.R. MILLER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

CONSTRUCTION NOTES

1. A DSA-CERTIFIED CLASS 3 (MINIMUM) PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK, THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
5. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL 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)
6. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

WELDING:

1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY DSA.
2. ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-lb @ (0° F).
3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE PROPER MATERIAL ID AND WELDING.
4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE HOT DIPPED GALVANIZED ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO HOT DIPPED GALVANIZED ASTM A-563 GRADE DH.
2. HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
3. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS – INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
4. HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
5. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.

A) PRETENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:
   1. TURN-OF-NUT PRETENSIONING: PER SECTION 8.2.1 OF THE *SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS* , WASHERS ARE NOT REQUIRED FOR THIS METHOD, THE NUT OR HEAD SHALL BE ROTATED AS SPECIFIED IN TABLE 8.2. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
   2. CALIBRATED WRENCH: PER THE *SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS*, WASHERS ARE REQUIRED (NOT SUPPLIED BY ICON) THESE SHALL BE INSTALLED PER THE INSTALLATION TORQUE DETERMINED IN THE PRE-INSTALLATION VERIFICATION OF THE FASTENER ASSEMBLY PER SECTION 7. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
   3. IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH "PT REQUIRED"

B) ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF THE SNUG-TIGHTENED JOINTS. SNUG TIGHT CONDITION EXISTS WHEN ALL PLIES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

FOUNDATIONS:

1. ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE. PASSIVE PRESSURE IS ASSUMED TO START 12" BELOW TOP OF FOOTING.
2. PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
3. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
5. MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET
6. PER CBC SECTION 1803A.6, GEOHAZARD REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
7. GEOHAZRD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8
8. SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IF USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
9. LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 FOR THE 1/2" DEFLECTION & HAS BEEN DESIGNED FOR P-DELTA EFFECTS. NO 1/3 INCREASE HAS BEEN APPLIED.
10. MINIMUM CLEARANCE BETWEEN PIERS SHALL BE 8'-0".

CONCRETE:

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH Pc (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SLUMP (±1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	0.44	0.35	3"	150 PCF

2. CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0=0, F1=4.5, F2=6
3. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA.
4. AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.005. MAX AGGREGATE SIZE = 1".
5. CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
6. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
7. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
8. CONCRETE DURABILITY SHALL BE PER CBC 1904A.1 ACI 318-19, CHAPTER 19.
9. CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-19, SECTION 26.12.
10. NO ADMIXTURE SHALL CONTAIN CALCIUM CHLORIDE.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:
   GR 60: (#4 BARS AND LARGER)
   GR 40: (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
   A. CAST AGAINST EARTH .....3"
   B. CAST AGAINST FORM BELOW GRADE .....2"
   C. FORMED SLABS (#11 BAR & SMALLER).....3/4"
   D. SLABS ON GRADE (FROM TOP OF SLAB).....1"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. REINFORCING SHALL BE LAP SPLICED PER ACI 318-19, SECTION 25.5.
6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
7. WELDING OF REINFORCING IS NOT ALLOWED.
8. REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWNG SPECIFICATIONS:

1. THE STEEL FRAME (HSS SECTIONS, COLD FORMED & PLATE STEEL) SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
2. THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN MINIMUM THREE STAGE ELECTRO DEPOSITION PRE-TREATEMENT PROCESS.
3. IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY COATED IN AN EPOXY PRIMER TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
4. THE STEEL SHALL THEN HAVE A TGIC POLYESTER COLOR COAT APPLIED OVER THE E-COATED SURFACE.
5. THE FINISH THICKNESS OF THESE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
6. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES & COLD FORMED STEEL ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE "AND THE "AISC SPECIFICATION SECTION M3"(UNLESS NOTED OTHERWISE).

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST I BREA, CA 92821
T. 714.524.1870 I F. 714.524.1875
WWW.JRMA.COM

Aug 31, 2023

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

GENERAL INFO

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM

COPYRIGHT 2004. ICON SHELTER SYSTEMS, INC.

1455 LINCOLN AVE
HOLLAND MI, 49423

616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS1.1

PRINTED ON :

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122188 | School Name: | PC Update | DSA File Number: | Increment Number: | School District: | PC Update | Date Created: 2023-04-19 08:36:32

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required Periodic – Indicates that a periodic special inspection is required Test – Indicates that a test is required	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CCR, Section 4-335. PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122188 | School Name: | PC Update | DSA File Number: | Increment Number: | School District: | PC Update | Date Created: 2023-04-19 08:36:32

Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by GE

	S1. GENERAL:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) form for exemptions.)

	S2. SOIL COMPACTION AND FILL:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Perform classification and testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
☑	b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) form for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)
☑	c. Compaction testing.	Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122188 | School Name: | PC Update | DSA File Number: | Increment Number: | School District: | PC Update | Date Created: 2023-04-19 08:36:32

	S3. DRIVEN DEEP FOUNDATIONS (PILES):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify pile materials, sizes and lengths comply with the requirements.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	b. Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	* Under the supervision of the geotechnical engineer.
☐	c. Inspect driving operations and maintain complete and accurate records for each pile.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	e. Steel piles.	Provide tests and inspections per STEEL section below.		
☐	f. Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
☐	g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.

	S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):			
	Test or Special Inspection	Type	Performed By	Code References and Note
☐	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122188 | School Name: | PC Update | DSA File Number: | Increment Number: | School District: | PC Update | Date Created: 2023-04-19 08:36:32

	Test or Special Inspection	Type	Performed By	Code References and Note
☐	b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☐	c. Confirm adequate end strata bearing capacity.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☐	d. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

	S5. RETAINING WALLS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Placement, compaction and inspection of backfill.	Continuous	GE*	1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above).
☐	b. Placement of soil reinforcement and/or drainage devices.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	c. Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.
☐	d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
☐	e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-122188 | School Name: | PC Update | DSA File Number: | Increment Number: | School District: | PC Update | Date Created: 2023-04-19 08:36:32

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13. Special inspector to verify specified concrete strength test prior to stressing.
☐	d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item 9; ACI 318-19 Section 26.13

	C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13.
☐	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.
☐	c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	Continuous	SI	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5
☐	d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Periodic	SI	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-122188 | School Name: | PC Update | DSA File Number: | Increment Number: | School District: | PC Update | Date Created: 2023-04-19 08:36:32

	C4. SHOTCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506R-16.
☐	b. Sample and test shotcrete (f'c).	Test	LOR	1908A.2, 1705A.3.9

	C5. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13.* May be performed by the project inspector when specifically approved by DSA.
☐	b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)

	C6. OTHER CONCRETE:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122188 | School Name: | PC Update | DSA File Number: | Increment Number: | School District: | PC Update | Date Created: 2023-04-19 08:36:32

	S6. OTHER SOILS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Soil Improvements	Test	GE*	Submit a comprehensive report documenting final soil improvements constructed, construction observations and the results of the confirmation testing and analysis to DGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
☐	b. Inspection of Soil Improvements	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	c.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-122188 | School Name: | PC Update | DSA File Number: | Increment Number: | School District: | PC Update | Date Created: 2023-04-19 08:36:32

	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
☑	d. Test concrete (f'c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
☐	e. Batch plant inspection:	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐	f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

	C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3
☐	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16 & AISC 360-22; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-122188 | School Name: | PC Update | DSA File Number: | Increment Number: | School District: | PC Update | Date Created: 2023-04-19 08:36:32

	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a–3c. 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	b. Test unidentified materials	Test	LOR	2202A.1.
☑	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☑	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
☐	e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

	S/A2. HIGH-STRENGTH BOLTS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
☑	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.
☑	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☑	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. **"Continuous" or "Periodic" depends on the tightening method used.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVISED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST BREA, CA 92821
T. 714.524.1870 F. 714.524.1875
WWW.JRMA.COM

Aug 31, 2023

DSA 103

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM
COPYRIGHT 2004. ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS1.2

PRINTED ON :

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

	S/A3. WELDING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

	S/A8. SPRAYED FIRE-RESISTANT MATERIALS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.
☐	b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E736
☐	c. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.4, ASTM E605

	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	S/A10. STORAGE RACK SYSTEMS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Materials used. to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Periodic	SI	Table 1705A.13.7
☐	b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5; Table 1705A.13.7

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead loads less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803.2.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exception item 3 for "Welding" in the Appendix below
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	c.	Test	LOR	

	S/A7. STEEL JOISTS AND TRUSSES:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Storage rack anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
☐	d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

	S/A11. Other Steel			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

	CONCRETE/MASONRY:
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	WELDING:
☐	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (OTHER), 2022 CBC

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

	X1. OTHER:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Load test for identified product(s):	Test	LOR	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
☐	b. Installation torque for non-HS bolts	Continuous	SI*	Applicable to communication towers identified as Essential Service Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications.*EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
☐	c.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

Application Number: 04-122188
DSA File Number:
School Name: PC Update
Increment Number:
School District: PC Update
Date Created: 2023-04-19 08:36:32

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST BREA, CA 92821
T. 714.524.1870 F. 714.524.1875
WWW.JRMA.COM

Aug 31, 2023

DSA 103

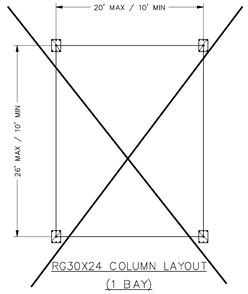
ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM
COPYRIGHT 2004. ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

LS1.3

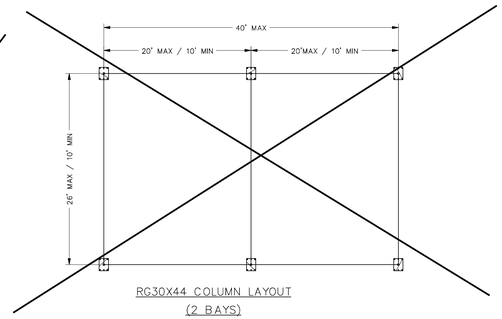
PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

PRINTED ON :

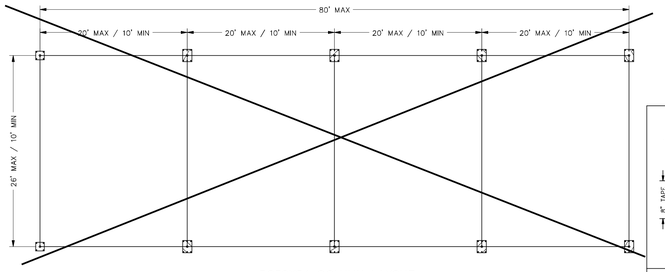
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26



RG30X24 COLUMN LAYOUT
(1 BAY)

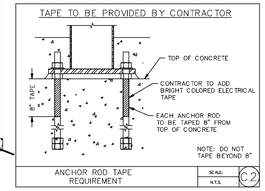


RG30X44 COLUMN LAYOUT
(2 BAYS)

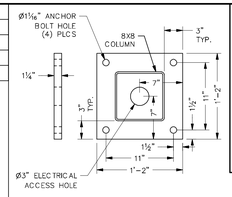


RG30X84 COLUMN LAYOUT
(4 BAYS)

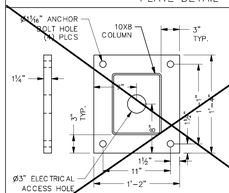
BASE PLATE LOCATION		
	DETAIL A	DETAIL B
8'	BP1	BP3
10'	BP1	BP3
12'	BP2	BP3



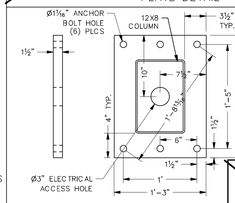
ANCHOR ROD TAPE REQUIREMENT — SCALE: N.T.S. — C2



8X8 COLUMN BASE PLATE DETAIL — BP1



10X8 COLUMN BASE PLATE DETAIL — BP2

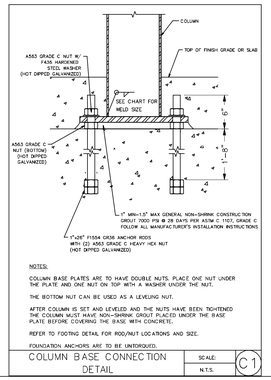


12X8 COLUMN BASE PLATE DETAIL — BP3

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST BREA, CA 92821
T. 714.524.1870 F. 714.524.1875
WWW.JRMA.COM

Aug 31, 2023



NOTES:
COLUMN BASE PLATES ARE TO HAVE DOUBLE NUTS. PLACE ONE NUT UNDER THE PLATE AND ONE NUT ON TOP WITH A WASHER UNDER THE NUT.

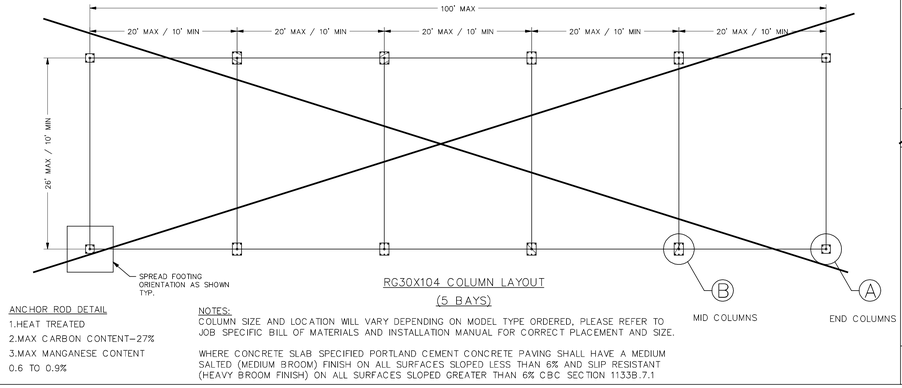
THE BOTTOM NUT CAN BE USED AS A LEVELING NUT.

AFTER COLUMN IS SET AND LEVELED AND THE NUTS HAVE BEEN TIGHTENED THE COLUMN MUST HAVE NON-SHRINK GROUT PLACED UNDER THE BASE PLATE BEFORE COVERING THE BASE WITH CONCRETE.

REFER TO FOOTING DETAIL FOR ROD/NUT LOCATIONS AND SIZE.

FOUNDATION ANCHORS ARE TO BE UNTORQUED.

COLUMN BASE CONNECTION DETAIL — SCALE: N.T.S. — C1



RG30X104 COLUMN LAYOUT
(5 BAYS)

MID COLUMNS

END COLUMNS

ANCHOR ROD DETAIL
1.HEAT TREATED
2.MAX CARBON CONTENT-27%
3.MAX MANGANESE CONTENT
0.6 TO 0.9%

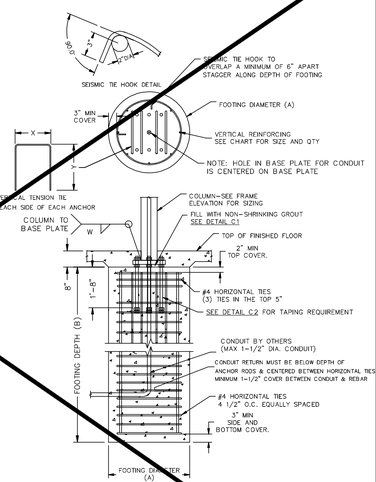
NOTES:
COLUMN SIZE AND LOCATION WILL VARY DEPENDING ON MODEL TYPE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL FOR CORRECT PLACEMENT AND SIZE.

WHERE CONCRETE SLAB SPECIFIED PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6% CBC SECTION 1133B.7.1

30' WIDE RECTANGULAR GABLE

ALL ANCHOR RODS SHALL BE 1"X26" U.N.O.

SEE BASE PLATE DETAILS FOR CORRECT ANCHOR LAYOUT



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
B1 & B2 ARE A (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

RG30 - PIER

8' height - End Columns				8' height - End Columns				8' height - End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
30	122	8	6	30	104	8	6	30	94	8	6
8' height - Side Columns				**8' height - Side Columns**				**8' height - Side Columns**			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
48	138	12	8	36	132	8	8	36	118	8	8
8' Eave - 1500 psf [ ]				**8' Eave - 2000 psf [ ]**				**8' Eave - 3000 psf [ ]**			

10' height - End Columns				10' height - End Columns				10' height - End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
30	116	8	6	30	100	8	6	30	90	8	6
10' height - Side Columns				**10' height - Side Columns**				**10' height - Side Columns**			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
42	138	10	8	36	124	8	8	36	112	8	8
10' Eave - 1500 psf [ ]				**10' Eave - 2000 psf [ ]**				**10' Eave - 3000 psf [ ]**			

12' height - End Columns				12' height - End Columns				12' height - End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
30	122	8	6	30	104	8	6	30	94	8	6
12' height - Side Columns				**12' height - Side Columns**				**12' height - Side Columns**			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
36	140	8	8	36	120	8	8	36	108	8	8
12' Eave - 1500 psf [ ]				**12' Eave - 2000 psf [ ]**				**12' Eave - 3000 psf [ ]**			

8' End Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
11	47	6	5/16
8' Side Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
17	65	8	3/8
8' Eave - Rebar & Weld			

10' End Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
11	59	7	5/16
10' Side Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
17	65	8	5/16
10' Eave - Rebar & Weld			

12' End Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
13	59	7	5/16
12' Side Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
17	65	8	3/8
12' Eave - Rebar & Weld			

RG30 - SPREAD

8' End Columns				8' End Columns				8' End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
66	30	9	6	62	30	8	6	63	30	8	6
8' Side Columns				**8' Side Columns**				**8' Side Columns**			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
96	30	12	6	96	30	12	6	80	30	10	6
8' Eave - 1500 psf [ ]				**8' Eave - 2000 psf [ ]**				**8' Eave - 3000 psf [ ]**			

10' End Columns				10' End Columns				10' End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
66	30	9	6	62	30	8	6	63	30	8	6
10' Side Columns				**10' Side Columns**				**10' Side Columns**			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
84	30	11	6	84	30	11	6	78	30	10	6
10' Eave - 1500 psf [ ]				**10' Eave - 2000 psf [ ]**				**10' Eave - 3000 psf [ ]**			

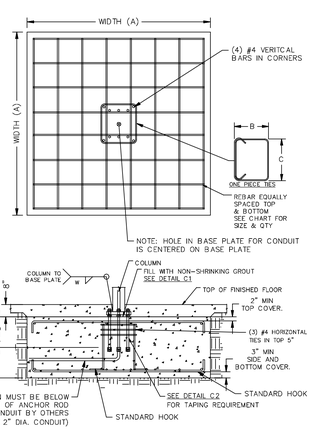
12' End Columns				12' End Columns				12' End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
69	30	9	6	68	30	9	6	68	30	9	6
12' Side Columns				**12' Side Columns**				**12' Side Columns**			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
84	30	11	6	78	30	10	6	78	30	10	6
12' Eave - 1500 psf [X]				**12' Eave - 2000 psf [ ]**				**12' Eave - 3000 psf [ ]**			

8' End Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
16	17.5	4	5/16
8' Side Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
17	23.5	4	3/8
8' Eave - Rebar & Weld			

10' End Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
16	17.5	4	5/16
10' Side Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
17	23.5	4	5/16
10' Eave - Rebar & Weld			

12' End Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
16	19.5	4	5/16
12' Side Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
17	23.5	4	3/8
12' Eave - Rebar & Weld			

SEE BASE PLATE DETAILS FOR CORRECT ANCHOR LAYOUT



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
B1 & B2 ARE A (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

30' WIDE RECTANGULAR GABLE FOUNDATION PLAN

JCON
Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.JCONSHELTERS.COM
COPYRIGHT 2004 JCON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

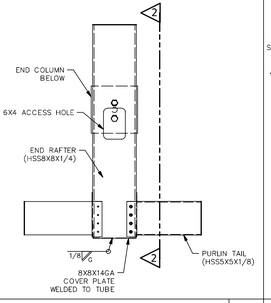
PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS3.0

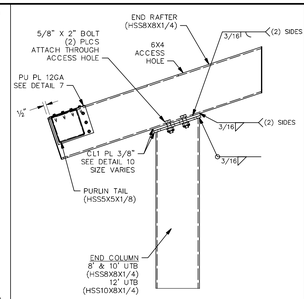
S:\Engineering\Inventor\DSA 2019\PC 2019 RG DSA\30 FOOT WIDE\DSA RG30-P4.dwg
PRINTED ON :

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

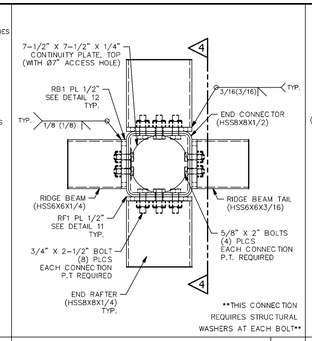
ALL STRUCTURAL FASTENERS (NUTS, BOLTS & WASHERS) ON THIS SHEET TO BE HOT DIP GALVANIZED



PLAN – PURLIN & END RAFTER CONNECTIONS @ END COLUMN | 1

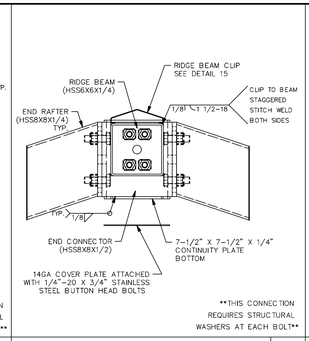


VIEW – PURLIN & END RAFTER CONNECTIONS @ END COLUMN | 2



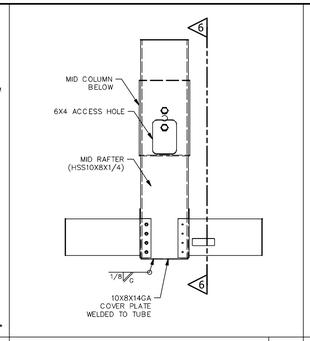
THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

PLAN – END RAFTER & RIDGE BEAM CONNECTIONS @ END CONNECTOR | 3

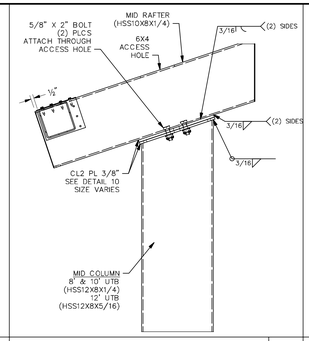


THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

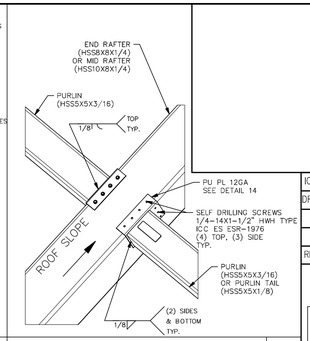
VIEW – END RAFTER & RIDGE BEAM CONNECTIONS @ END CONNECTOR | 4



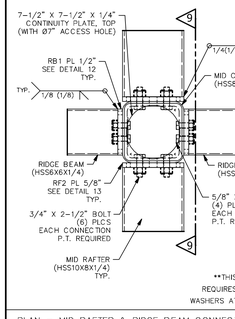
PLAN – PURLIN & MID RAFTER CONNECTIONS @ MID COLUMN | 5



VIEW – PURLIN & MID RAFTER CONNECTIONS @ MID COLUMN | 6

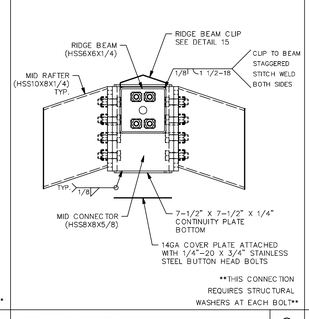


ISOMETRIC – PURLIN CONNECTIONS @ RAFTER | 7



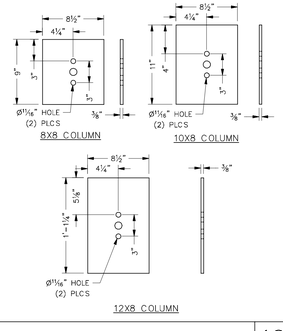
THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

PLAN – MID RAFTER & RIDGE BEAM CONNECTIONS @ MID CONNECTOR | 8

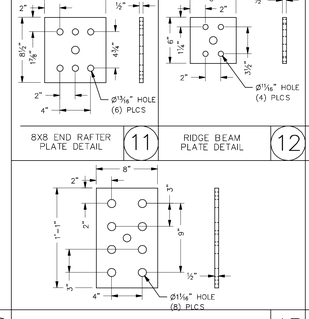


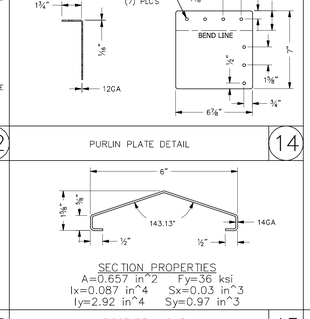
THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

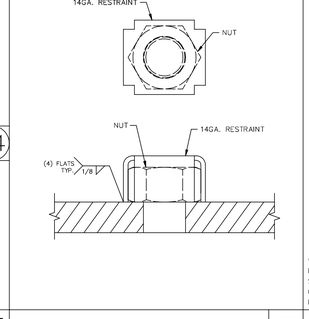
VIEW – MID RAFTER & RIDGE BEAM CONNECTIONS @ MID CONNECTOR | 9

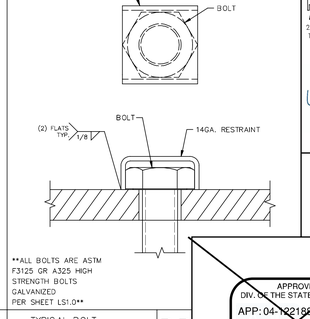


COLUMN TO RAFTER PLATE DETAILS | 10









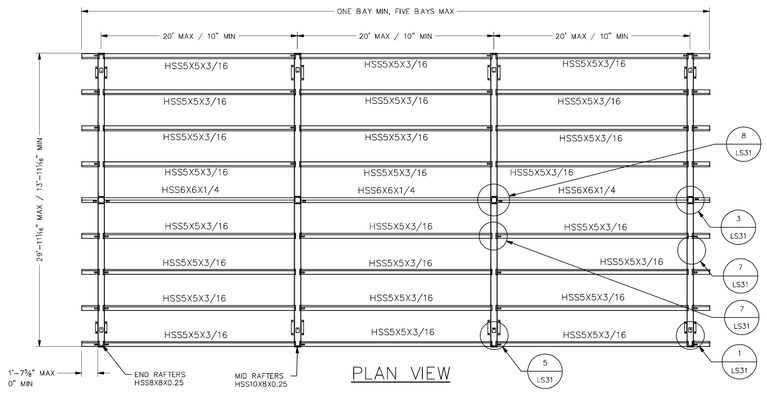
ALL BOLTS ARE ASTM F3125 OR A325 HIGH STRENGTH BOLTS GALVANIZED PER SHEET LS1.0

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

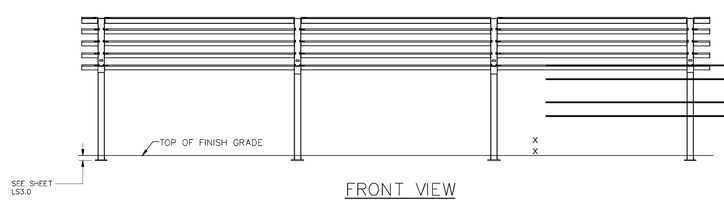
ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST I BREA, CA 92821
T.714.524.1870 I F.714.524.1875
WWW.JRMA.COM

Aug 31, 2023



PLAN VIEW



FRONT VIEW

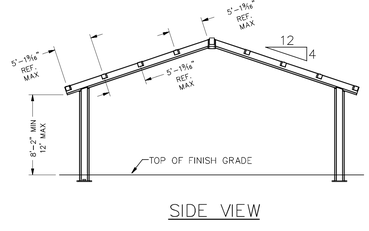
*NOTE:
QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		END COLUMN	**SEE NOTE BELOW		285 lbm/ass
2	*		MID COLUMN	**SEE NOTE BELOW		381 lbm/ass
3	4		END RAFTER	HSS8X8X1/4		414 lbm/ass
4	*		MID RAFTER	HSS10X8X1/4		475 lbm/ass
5	**		PURLIN	HSS5X5X3/16		234 lbm/ass
6	6		PURLIN TAIL 1	HSS5X5X1/8		15 lbm/ass
7	6		PURLIN TAIL 2	HSS5X5X1/8		15 lbm/ass
8	*		RIDGE BEAM	HSS6X6X1/4		333 lbm/ass
9	2		RIDGE BEAM TAIL	HSS6X6X3/16		34 lbm/ass
10	2		END CONNECTOR	HSS8X8X1/2		35 lbm/ass
11	*		MID CONNECTOR	HSS8X8X5/8		55 lbm/ass

**NOTE:
MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.
☐ END COLUMN 8' UTB – (HSS8X8X1/4)
☐ MID COLUMN 8' UTB – (HSS12X8X5/16)

☐ END COLUMN 10' UTB – (HSS8X8X1/4)
☐ MID COLUMN 10' UTB – (HSS12X8X5/16)

☒ END COLUMN 12' UTB – (HSS10X8X1/4)
☒ MID COLUMN 12' UTB – (HSS12X8X5/16)

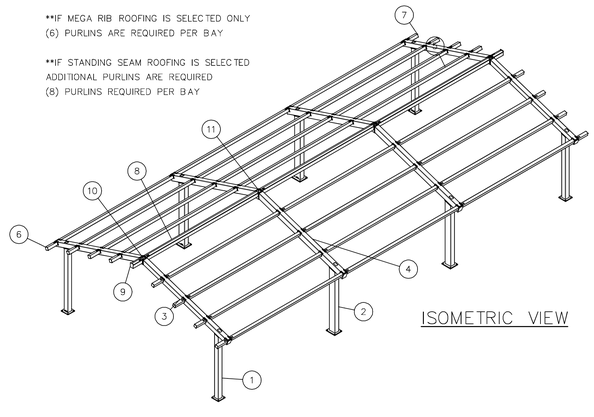


SIDE VIEW

**IF MULTI RIB ROOFING IS SELECTED ONLY
(6) PURLINS ARE REQUIRED PER BAY

**IF MEGA RIB ROOFING IS SELECTED ONLY
(6) PURLINS ARE REQUIRED PER BAY

**IF STANDING SEAM ROOFING IS SELECTED
ADDITIONAL PURLINS ARE REQUIRED
(8) PURLINS REQUIRED PER BAY



ISOMETRIC VIEW

MODEL DESIGNATION	
~~RG30X24~~	~~1 BAY~~
~~RG30X44~~	~~2 BAY~~
RG30X64	3 BAY
~~RG30X84~~	~~4 BAY~~
~~RG30X104~~	~~5 BAY~~

MODEL SHOWS 3 BAY SHELTER (RG30X64)
PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED

30' WIDE RECTANGULAR GABLE

30' WIDE RECTANGULAR GABLE FRAMING & CONNECTION DETAILS

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM
COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

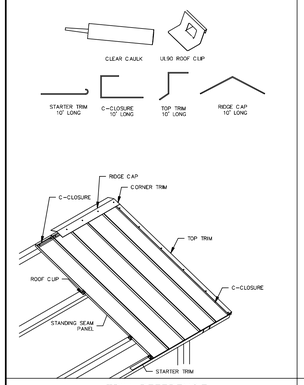
LS3.1

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

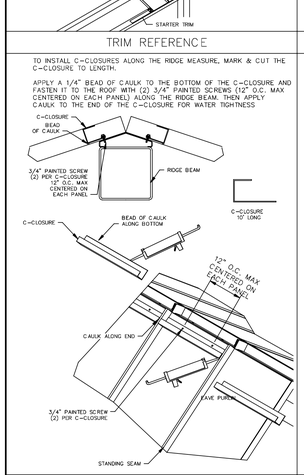
S:\Engineering\Inventor\USA 2022\PC 2022 RG DSA\30 FOOT\DSA RG30-PA.dcm

PRINTED ON :

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26



TRIM REFERENCE

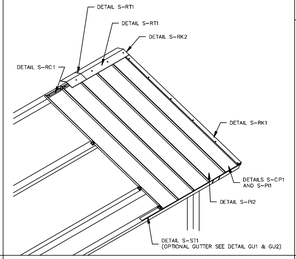


INSTALLATION OF C-CLOSURE @ RIDGE S-RC1

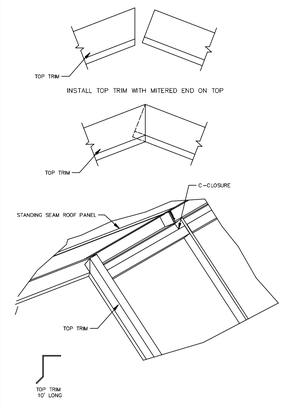
THESE DETAILS ASSUME THAT ALL COMPONENTS OF THIS ROOF SYSTEM WILL BE INSTALLED PLUMB AND SQUARE. CAULK AND TRIM SHOULD ALSO BE INSTALLED TO ENSURE WATER TIGHTNESS

READ ALL DETAILS IN THIS INSTALLATION MANUAL BEFORE STARTING

S-ST1 STARTER TRIM
S-CP1 ROOF PANEL PREPARATION
S-PI1 FIRST ROOF PANEL
S-PI2 SECOND ROOF PANEL
S-RK1 TOP TRIM & C-CLOSURE @ RAKE
S-RC1 C-CLOSURE @ RIDGE
S-RK2 RIDGE CORNER TRIM
S-RT1 RIDGE CAP

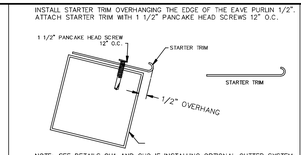


ORDER OF INSTALLATION



INSTALLATION OF CORNER TRIM S-RK2

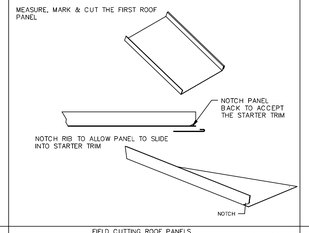
INSTALL STARTER TRIM OVERHANGING THE EDGE OF THE EAVE PURLIN 1/2". ATTACH STARTER TRIM WITH 1 1/2" PANCAKE HEAD SCREWS 12" O.C.



NOTE: SEE DETAILS GU1 AND GU2 IF INSTALLING OPTIONAL GUTTER SYSTEM

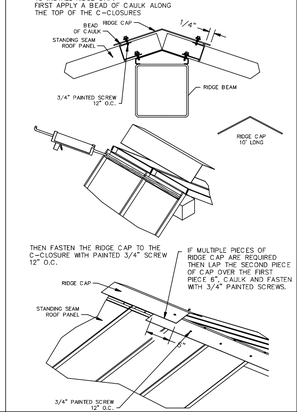
STARTER INSTALLATION S-ST1

MEASURE, MARK & CUT THE FIRST ROOF PANEL



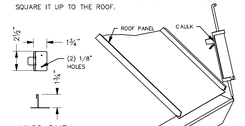
FIELD CUTTING ROOF PANELS S-CP1

TO INSTALL RIDGE CAP:
FIRST APPLY A BEAD OF CAULK ALONG THE TOP OF THE C-CLOSURES



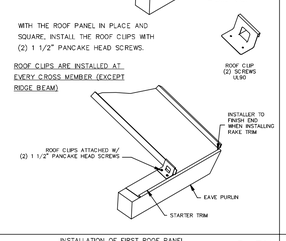
INSTALLATION OF RIDGE CAP S-RT1

AFTER THE ROOF PANEL HAS BEEN CUT TO SIZE (IF NECESSARY) AND NOTCHED, TEST FIT THE PANEL. THEN APPLY A BEAD OF CAULK THE APPROXIMATE LENGTH OF THE PANEL. SLIDE THE PANEL INTO PLACE, AND SQUARE IT UP TO THE ROOF.



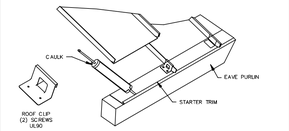
WITH THE ROOF PANEL IN PLACE AND SQUARE, INSTALL THE ROOF CLIPS WITH (2) 1 1/2" PANCAKE HEAD SCREWS.

ROOF CLIPS ARE INSTALLED AT EVERY CROSS MEMBER (EXCEPT RIDGE BEAM)

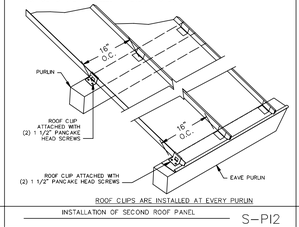


INSTALLATION OF FIRST ROOF PANEL S-PI1

AFTER THE SECOND ROOF PANEL HAS BEEN CUT TO LENGTH (IF NECESSARY) AND NOTCHED, TEST FIT PANEL. THEN APPLY A BEAD OF CAULK INSIDE THE STARTER TRIM. SLIDE THE SECOND ROOF PANEL IN PLACE AND SNAP IT OVER THE BATTEN OF THE FIRST PANEL

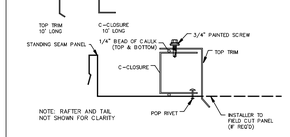


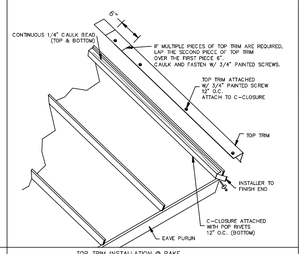
WITH THE SECOND ROOF PANEL IN PLACE AND SQUARE, INSTALL THE ROOF CLIPS WITH (2) 1 1/2" PANCAKE HEAD SCREWS.
REPEAT THIS STEP UNTIL ALL ROOF PANELS ARE INSTALLED
ROOF CLIPS ARE INSTALLED AT EVERY PURLIN



ROOF CLIPS ARE INSTALLED AT EVERY PURLIN

INSTALLATION OF SECOND ROOF PANEL S-PI2





TOP TRIM INSTALLATION @ RAKE S-RK1

ROOF NOTES

ATTENTION INSTALLERS:
METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!

DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

INSTALLED CORRECTLY	INSTALLED TOO TIGHT	INSTALLED TOO LOOSE
THE SEALING MATERIAL SLIGHTLY VISIBLE AROUND THE METAL WASHER	THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER	THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL INSTALLATION INSTRUCTION MATERIAL BEFORE STARTING WORK.

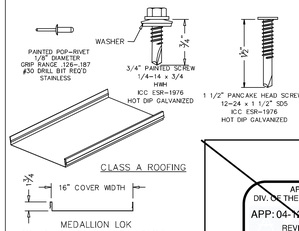
THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.

ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

FOR THE BEST APPEARANCE ALL TRIM AND FLASHING SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ALL EXPOSED FASTENERS EQUALLY SPACED.

SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE ERECTOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSPERSON AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.



CLASS A ROOFING

MEDALLION LOK
STANDING SEAM PANEL SECTION
24 ga. Fy=50 ksi Fu=65 ksi
ICC ESL-1082

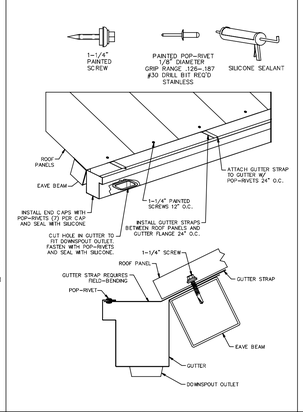
SECTION PROPERTIES
(PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.0848 in^4
Se=0.0565 in^3
Ma=1.4115 in-kips

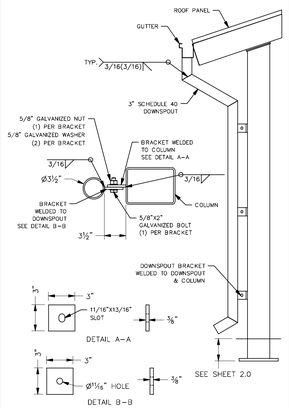
BOTTOM IN COMPRESSION
Ix=0.0390 in^4
Se=0.0476 in^3
Ma=1.0305 in-kips

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

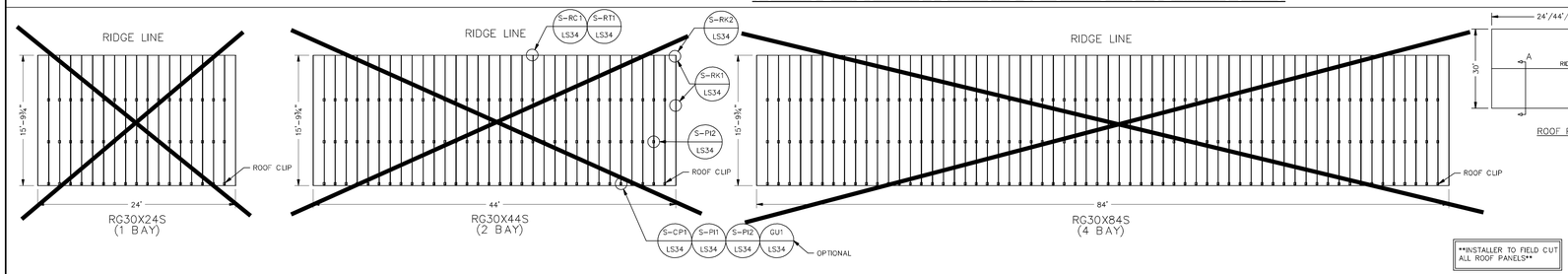
OPTIONAL GUTTER INSTALLATION
STANDING SEAM ROOF GU1

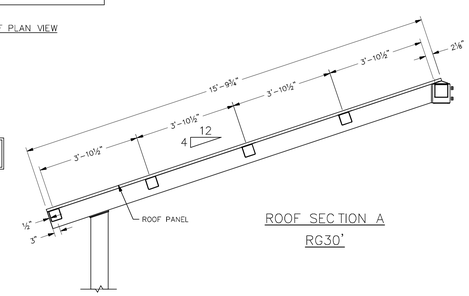


OPTIONAL GUTTER SECTION
STANDING SEAM ROOF GU2



30' WIDE RECTANGULAR GABLE STANDING SEAM ROOFING





ROOF SECTION A
RG30'

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST BREA, CA 92821
T. 714.524.1870 F. 714.524.1875
WWW.JRMA.COM

Aug 31, 2023

30' WIDE RECTANGULAR GABLE STANDING SEAM ROOFING PLAN

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM
COPYRIGHT 2004 ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS3.4

S:\Engineering\Inventor\USA 2019\PC 2019 RC DSA\ROOFS\30 FOOT WIDE ROOF\64 FOOT SS ROOF.dwg

PRINTED ON :

PROJECT NAME AND ADDRESS:

DAVIS ELEMENTARY SCHOOL MODERNIZATION

5224 E. MORADA LANE STOCKTON, CA 95212

LODI UNIFIED SCHOOL DISTRICT

MISCELLANEOUS NOTES:

REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR DAVIS ELEMENTARY SCHOOL MODERNIZATION STOCKTON, SAN JOAQUIN COUNTY, CALIFORNIA AS PREPARED BY TARRACON, DATED DECEMBER 2, 2024 TERRACON PROJECT NO. NA245115

ADDITIONAL INFORMATION:

SELECTION OF THE PROJECT INSPECTOR & TESTING AGENCY SHALL BE BY THE DISTRICT, AND SHALL BE APPROVED BY DSA AND THE ARCHITECT/ENGINEER OF RECORD.

COST OF THE PROJECT INSPECTOR (TITLE 24, PART 1, SECTION 4-333(b) & TESTING AGENCY (TITLE 24, PART 1, SECTION 4-335) SHALL BE BY THE SCHOOL DISTRICT.

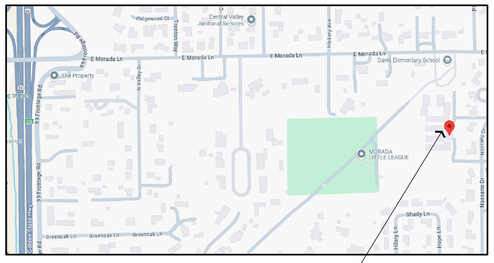
DEFERRED APPROVAL ITEMS:

1. NONE

NOTE:

FABRICATION OF DEFERRRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTORS DRAWINGS, SPECIFICATIONS AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER OF RECORD AND HAVE BEEN APPROVED BY DSA.

VICINITY MAP:



DAVIS ELEMENATRY SCHOOL
5224 E. MORADA LANE
STOCKTON, CA 95212

GENERAL NOTES

ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR

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

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

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

120'-0" x 32' -0" BUILDING DESCRIPTION & DESIGN LOADS

SINGLE STORY BUILDINGS (WITH 10'-0"x32'-0" MODULES)

RISK CATEGORY: TYPE II PER CBC, PART 2, TABLE 1604.5

WIND = 95 MPH, EXPOSURE 'C'

INTERIOR PRESSURE COEFFICIENT = ± 0.18

SITE CLASS = D (PER GEOTECH REPORT)

RELIABILITY / REDUNDANCY FACTOR PER ASCE 7-16 SEC. 12.3.4.2

$\rho_I = 1.0$

$S_{DS} = 0.645$ (PER GEOTECH REPORT) $F_a = 1.284$ (PER GEOTECH REPORT)

$S_{MS} = 0.8284$ (PER GEOTECH REPORT) $S_{DS} = 0.552$ (PER GEOTECH REPORT)

$S_1 = 0.263$ (PER GEOTECH REPORT) $F_v = 1.80$ (PER GEOTECH REPORT)

$S_{M1} = 0.818$ (PER GEOTECH REPORT) $S_{D1} = 0.545$ (PER GEOTECH REPORT)

SEISMIC DESIGN CATEGORY = D (PER GEOTECH REPORT)

$I = 1.0$ $T = 0.13$ SEC.

R = 6.5 (PER CBC SEC. 2212.A.2) $C_{S1} = 0.65$ (PER EQUATION 12.8-3 OF ASCE 7-16, NOT CRITICAL)

$C_d = 4.0$ (PER CBC SEC. 2212.A.2) $C_{S2} = 0.024$ (PER EQUATION 12.8-5 OF ASCE 7-16, NOT CRITICAL)

$\Omega_E = 2.5$ (PER CBC SEC. 2212.A.2) $C_{S3} = 0.024$ (PER EQUATION 12.8-6 OF ASCE 7-16, NOT CRITICAL)

$C_{S2} = \frac{0.7 \cdot S_{DS}}{\frac{R}{I}}$ $C_{S2} = 0.026$ ASD LEVEL (PER EQUATION 12.8-2 OF ASCE 7-16)

BASE SHEAR = @ 120'-0"x32'-0" BUILDING "D" = 10000# (ASD)

OCCUPANT LOAD FACTOR = 20
CONSTRUCTION TYPE: V-B CONSTRUCTION
OCCUPANCY TYPE: E OCCUPANCY
SHEAR WALL BUILDING (BOTH DIRECTIONS)

ROOF COVERED AREA: 4,836 SQ. FT. (124'x39')
TOTAL BUILDING AREA: 3,840 SQ. FT. (120'x32')
ALLOWABLE AREA W/O SPRINKLERS: 9,500 SQ. FT.

FLOOR LIVE LOAD: 50.0 PSF (PROJECT IS A SLAB ON GRADE BUILDING)

ROOF LIVE LOAD: 20.0 PSF (reducible for tributary area)

SNOW LOAD: PROJECT IS NOT LOCATED IN A SNOW REGION

PHOTOVOLTAIC(PV) SYSTEM = BUILDINGS ARE DESIGNED FOR 4.0 PSF PV SYSTEM WEIGHT OVER ENTIRE ROOF AREA

DRAWING INDEX

SHEET	DESCRIPTION
	COVER DRAWING
T-0	COVER SHEET WITH DRAWING INDEX, DESIGN LOADS, BUILDING DESCRIPTION & CODE REFERENCES
	ARCHITECTURAL DRAWINGS
A-1	FLOOR PLAN & REFLECTED CEILING PLAN
A-2A	CEILING DETAILS
A-3	ARCHITECTURAL CROSS SECTIONS
A-3.1	ARCHITECTURAL CROSS SECTIONS
A-4	ARCHITECTURAL DETAILS
A-5	EXTERIOR ELEVATIONS
A-6	INTERIOR ELEVATIONS
A-7	DOOR SIGNAGE DETAILS ACCESSIBLE MOUNTING HEIGHTS, DOOR AND WINDOW TYPES, DOOR & INTERIOR FINISH SCHEDULES
A-8	ROOF PLAN
A-9	ARCHITECTURAL BUILDING SECTIONS
	FOUNDATION DRAWINGS
SF-0.1	FOUNDATION DETAILS & NOTES
SF-0.2	FOUNDATION DETAILS & NOTES
SF-1	FOUNDATION PLAN & SHEARWALL LAYOUT
SF-2.1	FOUNDATION DETAILS
SF-2.2	FOUNDATION DETAILS
SF-2.3	FOUNDATION DETAILS
	STRUCTURAL DRAWINGS
S-0.1	STRUCTURAL NOTES
S-0.2	STRUCTURAL NOTES
S-1	ROOF FRAMING PLAN
S-2.1	STRUCTURAL DETAILS
S-2.2	STRUCTURAL DETAILS
S-3	STRUCTURAL CROSS-SECTION
S-4	WALL ANCHOR DETAILS
S-4.1	STRUCTURAL NOTES & DETAILS
S-5	TYPICAL WALL FRAMING ELEVATIONS
	CAL-GREEN DRAWINGS
CG-1	CALGREEN COMPLIANCE DOCUMENTATION
CG-2	CALGREEN COMPLIANCE DOCUMENTATION
CG-3	CALGREEN COMPLIANCE DOCUMENTATION
	MECHANICAL DRAWINGS
M0.1	MECHANICAL LEGEND, SCHEDULES AND NOTES
M2.1	MECHANICAL FLOOR PLAN
M4.1	MECHANICAL SPECIFICATIONS
M4.2	MECHANICAL SPECIFICATIONS
M4.3	MECHANICAL SPECIFICATIONS
M5.1	MECHANICAL DETAILS
M6.1	MECHANICAL CONTROLS
	PLUMBING DRAWINGS
P0.1	PLUMBING LEGEND, SCHEDULES AND NOTES
P2.1	PLUMBING FLOOR PLANS
P4.1	PLUMBING SPECIFICATIONS
	TITLE 24 COMPLIANCE DRAWINGS
T-24A	TITLE 24 REPORTS
T-24B	TITLE 24 REPORTS
	ELECTRICAL DRAWINGS
E000	GENERAL INFORMATION
E300	LIGHTING & POWER PLAN
E100	SCHEDULES
E800	DETAILS & DIAGRAMS
E900	T24 INTERIOR LIGHTING
E910	T24 EXTERIOR LIGHTING
E920	T24 POWER
	PV SUPPORT DRAWINGS
PVS-1	PV SUPPORT & ANCHORAGE DETAILS
PVS-2	PV SUPPORT & ANCHORAGE MEMBER CUTSHEETS
PVS-3	PV SUPPORT & ANCHORAGE MEMBER CUTSHEETS

(51- SHEETS TOTAL)

APPLICABLE CODES:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

2022 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2021 EDITION INTERNATIONAL BUILDING CODE WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (2020 EDITION NATIONAL ELECTRICAL CODE WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2021 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2021 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11, TITLE 24, CCR)

2022 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR) (2021 EDITION INTERNATIONAL FIRE CODE WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13, 2022 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED

NFPA 72, 2022 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

NFPA 14, 2019 EDITION, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS

NFPA 24, 2022 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES

MMBI SYMBOLS;

- (A) — WINDOW TYPE A ON FLOOR PLAN & SCHEDULE
- A — DOOR TYPE A ON FLOOR PLAN & SCHEDULE
- 3 — REFERS TO NOTE NO. 3
- 4 / A-4 — REFERS TO DETAIL NO.4 ON SHEET A-4
- 99234 — MODULE NO. 99234

MMBI ABBREVIATIONS

A.B.	AGGREGATE BASE OR ANCHOR BOLT
A/C	ASPHALTIC CONCRETE
A.D.	AREA DRAIN
A.S.T.M.	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ACOUST.	ACOUSTICAL
ADD.	ADDITIONAL
ALT.	ALTERNATE
ALUM.	ALUMINUM
ARCH.	ARCHITECTURAL
AUTO.	AUTOMATIC
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLK'G.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
C.B.C.	CALIFORNIA BUILDING CODE
C.B.	CATCH BASIN
C.C.R.	CALIFORNIA CODE OF REGULATIONS
C.E.F.	CEILING EXHAUST FAN
C.I.	CAST IRON
C.J.	CONSTRUCTION JOINT
C.L.	CHAIN LINK
C.O.T.G.	CLEAN OUT TO GRADE
C.P.	COMPLETE PENETRATION
CAB.	CABINET
CER.	CERAMIC
CHK. BD.	CHALK BOARD
CLG.	CEILING
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOS
D.F.	DRINKING FOUNTAIN OR DOUGLAS FIR
D.I.	DRAIN INLET
D.S.	DOWN SPOUT
DBL.	DOUBLE
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DR.	DOOR
DRW'G. OR DWG	DRAWING
E.	EAST
E.J.	EXPANSION JOINT
E.N.	EDGE NAILING
E.S.	EACH SIDE
E.W.	EACH WAY
EA.	EACH
EL. OR ELEV.	ELEVATION
ELECT.	ELECTRICAL
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
EXTING.	EXTINGUISHER
F.A.	FIRE ALARM
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
F.H.	FLAT HEAD
F.N.	FIELD NAILING
F.O.B.	FACE OF BLOCK
F.O.C.	FACE OF CURB OR CONCRETE
F.O.S.	FACE OF STUD
FIN.	FINISH
FLR.	FLOOR
FOUND.	FOUNDATION
FRP.	FIBERGLASS REINFORCED PANEL
FT.	FEET
FTG.	FOOTING
G.I.	GALVANIZED IRON
GA.	GAUGE
GALV.	GALVANIZED
GR.	GRADE
GYP.	GYPSUM
GYP. BD.	GYPSUM BOARD
H.B.	HOSE B/B
H.C.	HOLLOW CORE
H.D.	HOT DIPPED
HD. WD.	HARD WOOD
HORIZ.	HORIZONTAL
HR.	HOUR
HSS.	HOLLOW STEEL SECTION
HT.	HEIGHT
I.C.C.	INTERNATIONAL CODE COUNCIL
ID.	INSIDE DIMENSION OR DIAMETER
IN.	INCH
INFO.	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JST.	JOIST
K.D.	KNOCK DOWN
L.B.	LAG BOLT
LAV.	LAVATORY
LB.	POUND
LT. WT.	LIGHT WEIGHT
M.B.	MACHINE BOLT
M.D.O.	MEDIUM DENSITY OVERLAY
M.H.	MAN HOLE
MACH.	MACHINE
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE.
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MTL.	METAL
N.	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
O/	OVER
O.C.	ON CENTER
O.D.	OUTSIDE DIMENSION OR DIAMETER
O.H.	OVERHANG
OBS.	OBSCURE
O.F.C.I.	OWNER FURNISHED AND CONTRACTOR INSTALLED
OPEN.	OPENING
OPP.	OPPOSITE
P.L.	PROPERTY LINE
P. LAM.	PLASTIC LAMINATED
P.P.	PARTIAL PENETRATION
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
PERF.	PERFORATED
PL.	PLATE
PLYWD.	PLYWOOD
PORT.	PORTABLE
PR.	PAIR
PRE-FAB.	PRE FABRICATED
P.H.	PANIC HARDWARE
R.A.G.	RETURN AIR GRILL
R.B.	RUBBER BASE
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
R.W.L.	RAIN WATER LEADER
REINF.	REINFORCING
REQ'D	REQUIRED
RET.	RETURN
RM.	ROOM
RWD.	REDWOOD
S.	SOUTH
S.A.D.	SUPPLY AIR DIFFUSER
S.A.R.	SUPPLY AIR REGISTER
S.C.	SOLID CORE
S.C.D.	SEAT COVER DISPENSER
S.D.	STORM DRAIN OR SOAP DISPENSER
SDC	SPECIAL DAY CLASSROOM
SM.	SHEET METAL
SMS.	SHEET METAL SCREW
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
SCHED.	SCHEDULE
SERV.	SERVICE
SHT.	SHEET
SIM.	SIMILAR
SL.	SLIDING
SPEC.	SPECIFICATION
SQ.	SQUARE
STD.	STANDARD
STIF. PL.	STIFFENER PLATE
STOR.	STORAGE
STRUCT.	STRUCTURAL
T & B	TOP AND BOTTOM
T & G	TONGUE AND GROOVE
T.O.B.	TOP OF BLOCK
T.O.C.	TOP OF CURB OR CONCRETE
T.O.S.	TOP OF SLAB
T.P.D.	TOILET PAPER DISPENSER
TEL.	TELEPHONE
THRESH.	THRESHOLD
TYP.	TYPICAL
U.B.C.	UNIFORM BUILDING CODE
U.L.	UNDERWRITERS LABORATORY
U.O.N.	UNLESS OTHERWISE NOTED
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
W.	WEST
W/	WITH
W/O	WITH OUT
W.C.	WATER CLOSET
W.H.	WATER HEATER
W.P.	WATER PROOF
W.S.	WOOD SCREWS
WD.	WOOD
WSCT.	WAINSCOAT

PROJECT DIRECTORY:

OWNER:	LODI UNIFIED SCHOOL DISTRICT 1305 E. VINE STREET LODI, CA 95240 CONTACT: LANCE BROWN (209) 953-8000 EMAIL: lbrown@lodiusd.net
ARCHITECT:	PBK ARCHITECTS, INC. 1110 IRON POINT ROAD, SUITE 200 FOLSOM, CA 95630 CONTACT: MAVERICK GONZALES (916) 355-9822 EMAIL: maverickgonzales@pbk.com
STRUCTURAL ENGINEER:	MRH STRUCTURAL ENGINEERS, INC. 3400 IRVINE AVE. SUITE 101 NEWPORT BEACH, CA 92660 CONTACT: MOHAMMAD HARIRI (714) 633-6302 EMAIL: mrh@mrhse.com
MECHANICAL ENGINEER:	TURLEY & ASSOCIATES 1760 CREEKSIDE OAKS DR. #120 SACRAMENTO, CA 95833 CONTACT: NIRAV SHAH (916) 325-1065 EMAIL: NShah@turleymech.com
ELECTRICAL ENGINEER:	ATIUM ENGINEERING 3533 YORK LANE SAN RAMON, CA 94582 CONTACT: DAVE MAINO (913) 961-1658 EMAIL: maino@atiumeng.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Building Institute, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever without the expressed written permission of the Modular Building Institute.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. HARIRI No. 3545 STRUCTURAL STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

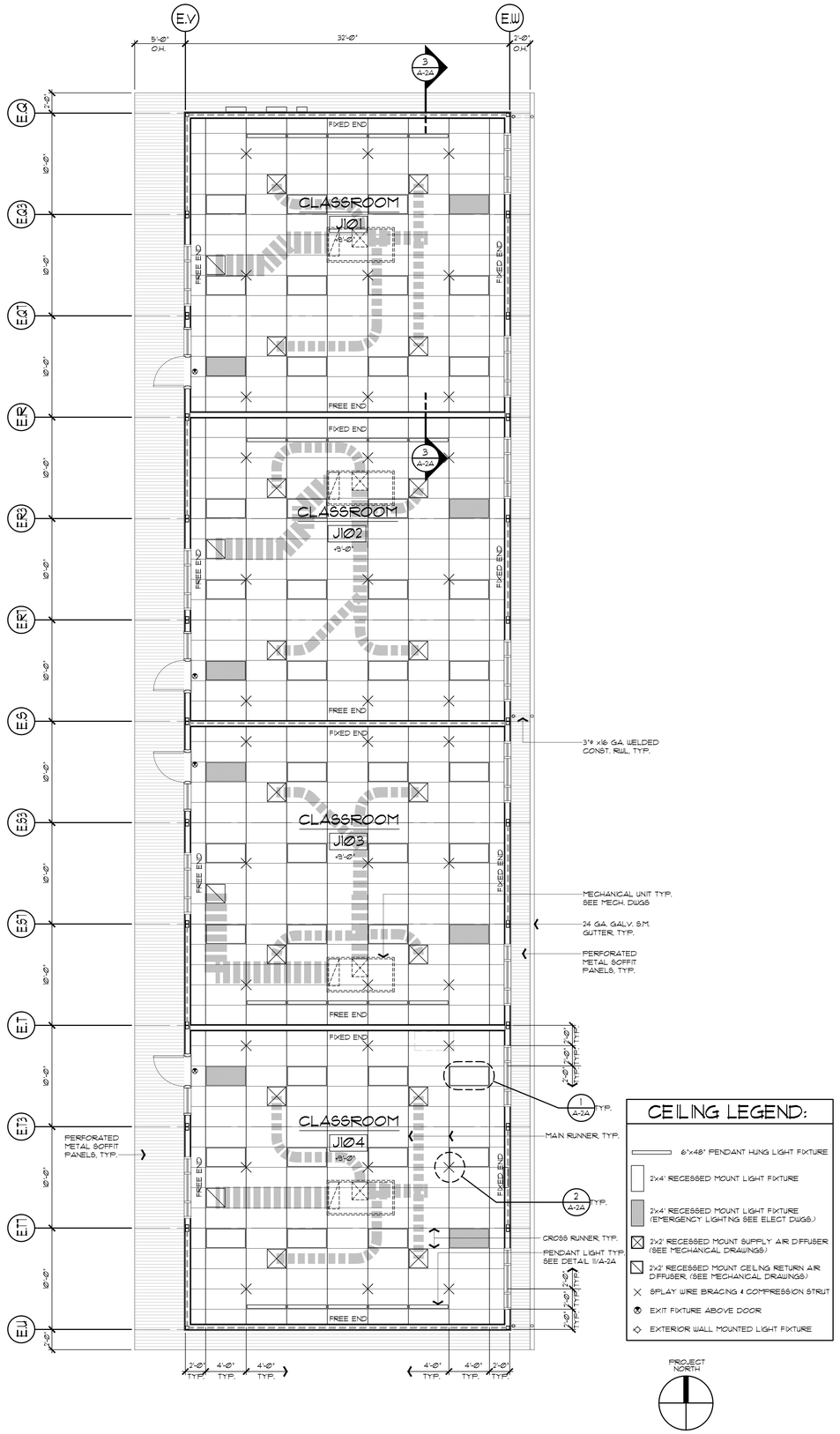
DRAWN: BLB
CHECKED: MM
REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE
COVER SHEET WITH DRAWING INDEX, DESIGN LOADS, BUILDING DESCRIPTIONS & CODE REFERENCES

SHEET NO.
T-0



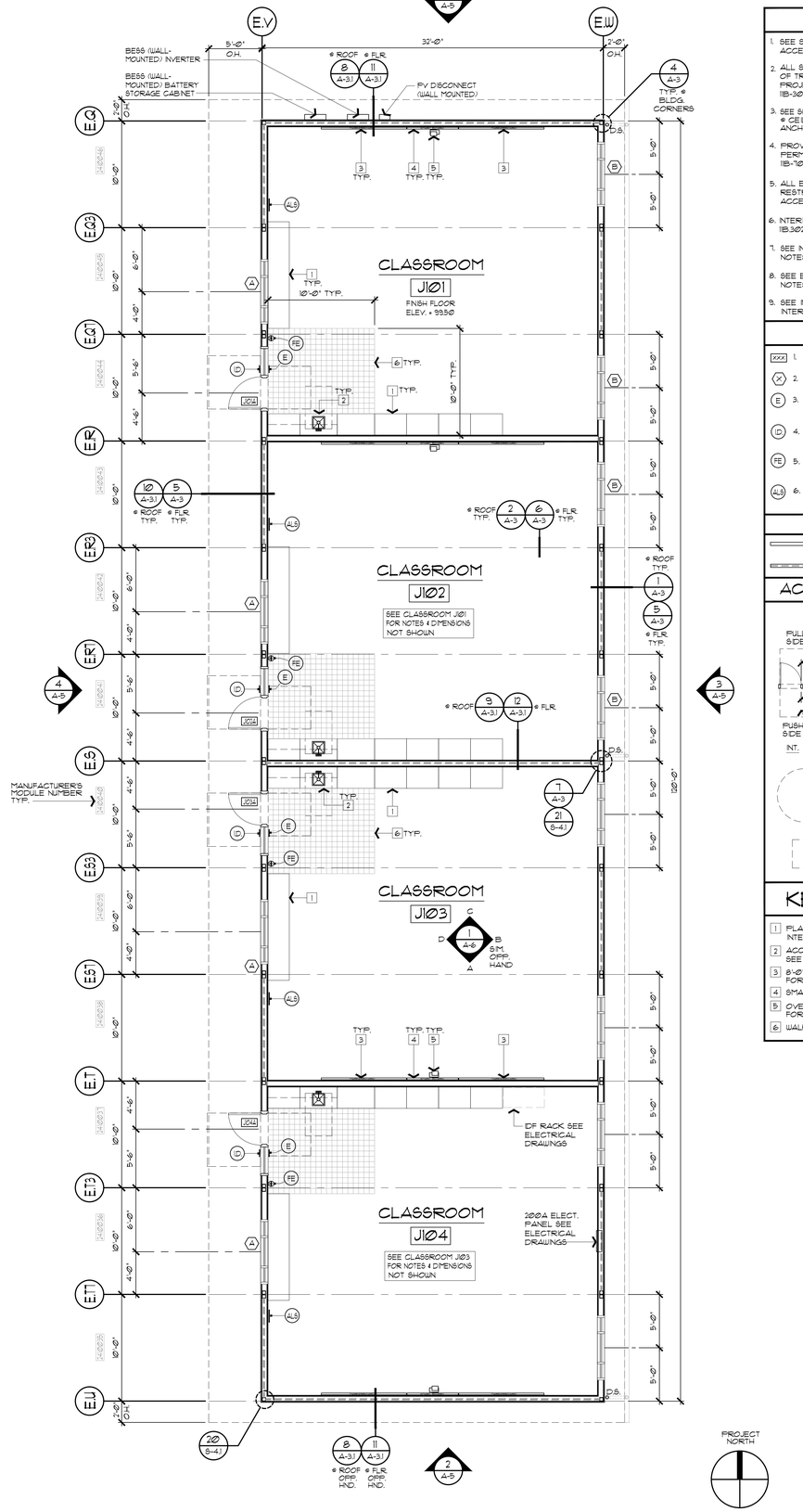
CEILING LEGEND:

- 6'x48" PENDANT HUNG LIGHT FIXTURE
- 2'x4' RECESSED MOUNT LIGHT FIXTURE
- 2'x4' RECESSED MOUNT LIGHT FIXTURE (EMERGENCY LIGHTING SEE ELECT DWGS.)
- 2'x2' RECESSED MOUNT SUPPLY AIR DIFFUSER (SEE MECHANICAL DRAWINGS)
- 2'x2' RECESSED MOUNT CEILING RETURN AIR DIFFUSER. (SEE MECHANICAL DRAWINGS)
- SPLAY WIRE BRACING & COMPRESSION STRUT
- EXIT FIXTURE ABOVE DOOR
- EXTERIOR WALL MOUNTED LIGHT FIXTURE

PROJECT NORTH

REFLECTED CEILING PLAN

SCALE 3/16"=1'-0" (2)



GENERAL NOTES

1. SEE SHEET A-7 FOR ADDITIONAL INFORMATION & DIMENSIONS @ ACCESSIBLE FIXTURES & ACCESSORIES TYP.
2. ALL SURFACE MOUNTED DISPENSERS ETC. ALONG THE PATH OF TRAVEL OR IN CIRCULATION AREA SHALL HAVE A MAX. 4" PROJECTION FROM WALL TYP. PER 2022 CBC SECTION 11B-307.2
3. SEE SHT. S-4, DTLS. 19, 20 & 22 & FOR TYP. NT. WALL ANCHORAGE @ CEILING AND SHT. S-4.A1, DTLS. 7, 8 & 8A FOR TYP. NT. WALL ANCHORAGE @ FLOOR
4. PROVIDE ROOM IDENTIFICATION SIGNAGE FOR ALL PERMANENT ROOMS & SPACES PER 2022 CBC SECTION 11B-703, 11B-703.4.2 (SEE SHEET A-7)
5. ALL ENTRANCES, PATHWAYS, DRINKING FOUNTAINS, RESTROOMS, EQUIPMENT AND FIXTURES PER ACCESSIBILITY STANDARDS.
6. INTERIOR SURFACE TO CONFORM TO 2022 CBC SECTION 11B.302
7. SEE INTERIOR ELEVATIONS FOR INTERIOR FINISHES, FIXTURES NOTES AND DIMENSIONS NOT SHOWN ON THIS SHEET
8. SEE EXTERIOR ELEVATIONS FOR EXTERIOR FINISHES, NOTES AND DIMENSIONS NOT SHOWN ON THIS SHEET
9. SEE INTERIOR ROOM FINISH SCHEDULE SHEET A-7 FOR INTERIOR FINISHES NOT SHOWN ON THIS SHEET

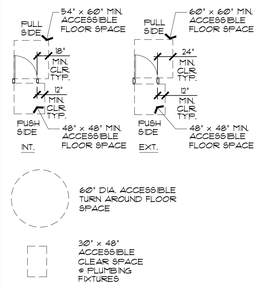
FLOOR PLAN LEGEND

- XXX 1. DOOR IDENTIFICATION, SEE SHEET A-7 FOR DOOR TYPES & SHT. A-7 FOR DOOR SCHEDULES
- X 2. WINDOW IDENTIFICATION, SEE SHEET A-7 FOR WINDOW TYPES
- E 3. PROVIDE TACTILE "EXIT" SIGNAGE PER 2022 CBC SECTION 1013.1, 11B-703, 11B-703.1, 11B-703.3.5 WHERE SHOWN AT EXTERIOR EXIT DOORS (SEE DTL. 3/A4-7.)
- ID 4. PROVIDE ROOM IDENTIFICATION SIGNAGE FOR ALL OCCUPIABLE ROOMS & SPACES PER 2022 CBC SECTION 11B-703, 11B-703.4.2 (SEE DTLS. 1 & 2/A4-7.)
- FE 5. SURFACE MOUNTED FIRE EXTINGUISHER 5-A:20-B:C FIRE EXTINGUISHER PER 2022 CBC SECTION 906, TYP. SEE DTL. 19/A-4
- ALS 6. ASSISTIVE LISTENING SYSTEM SIGNAGE PER 2022 CBC SECTION 11B-703.12.4, SEE DET. 4/A4-7

WALL LEGEND

- 2x6 WOOD STUDS @ 16" O.C. WALL TYP. U.O.N. SEE STRUCT. DWGS.
- SHEAR WALL TYP. SEE STRUCT. DWGS.

ACCESSIBLE CLEAR SPACE



KEYNOTES FLOOR PLAN

1. PLASTIC LAMINATE CASEWORK & COUNTERTOPS, SEE INTERIOR ELEVATIONS
2. ACCESSIBLE PLASTIC LAMINATE CASEWORK W/ SINK SEE INTERIOR ELEVATIONS
3. 8'-0"x4'-0" MARKER BOARDS, TYP., SEE DTL. 18/A-4 FOR BLOCKING
4. SMARTBOARD, (BY OTHERS) SEE DTL. 20/A-4 FOR BLKG.
5. OVER HEAD PROJECTOR , (BY OTHERS), SEE DET. 22/A-4 FOR BLKG.
6. WALK-OFF MAT, SEE INTERIOR FINISH SCHEDULE SHT. A-7

PROJECT NORTH

FLOOR PLAN

SCALE 3/16"=1'-0" (1)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT (DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Meehleis Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Meehleis Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. MARRI
No. 3545
MRH STRUCTURAL
STATE OF CALIFORNIA
SIGNED 12-15-2025
MRH Structural Engineers
5400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

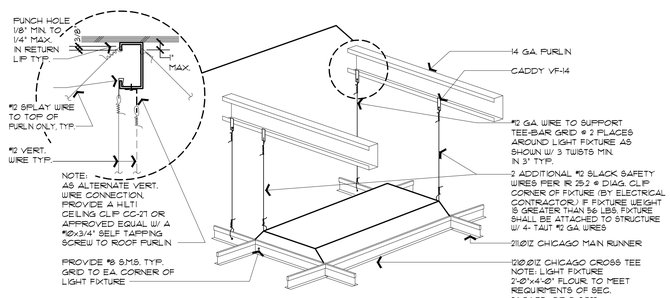
DRAWN: BLB
CHECKED: MM
REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

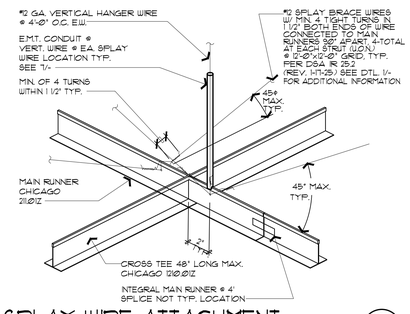
SHEET TITLE
FLOOR PLAN & REFLECTED CEILING PLAN

SHEET NO.
A-1



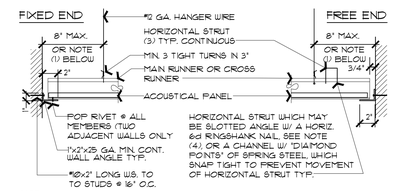
LIGHT FIXTURE @ CEILING

SCALE: 1-1/2"=1'-0" — 1



SPLAY WIRE ATTACHMENT

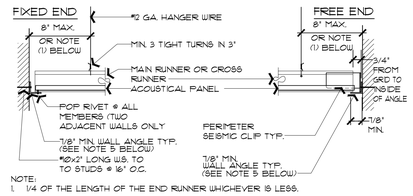
SCALE: 1-1/2"=1'-0" — 2



NOTE:
1. 1/4 OF THE LENGTH OF THE END RUNNER WHICHEVER IS LESS.
2. SPACE LATERAL FORCE BRACING ASSEMBLIES AT A 12'-0"x12'-0" GRID AND WITHIN 6'-0" OF WALLS TYP.
3. NOTCHING OF HORIZ. STRUTS IS PERMITTED ONLY @ INTERSECTIONS WITH MAIN RUNNERS OR CROSS TEES.
4. NAIL @ ENDS OF HORIZ. STRUTS SHALL BE PLACED WITH HEAD TOWARDS CENTERLINE OF SPAN OF STRUT.
5. SEE DETAIL 3A/- FOR ALTERNATE TO 2" WALL ANGLE

CEILING GRID @ WALL

SCALE: 1-1/2"=1'-0" — 3



NOTE:
1. 1/4 OF THE LENGTH OF THE END RUNNER WHICHEVER IS LESS.
2. SPACE LATERAL FORCE BRACING ASSEMBLIES AT A 12'-0"x12'-0" GRID AND WITHIN 6'-0" OF WALLS TYP.
3. HORIZONTAL STRUTS ARE NOT REQUIRED WHERE PERIMETER SEISMIC CLIPS ARE USED TYP.
4. CHICAGO, SEE ICC REPORT NO. ESR-2631, REISSUED JUNE 2024 FOR ADDITIONAL INFORMATION USG/DONN, SEE ICC REPORT NO. ESR-1222, REISSUED DEC. 2024 FOR ADDITIONAL INFORMATION ARMSTRONG, SEE ICC REPORT NO. ESR-1308, REISSUED DEC. 2024 FOR ADDITIONAL INFORMATION CERTAINTEED, SEE ICC REPORT NO. ESR-3336, REVISED DEC. 2024 FOR ADDITIONAL INFORMATION
5. @ CHICAGO CEILINGS (PER ICC REPORT NO. ESR-2631) PROVIDE 15/16" MIN. WALL ANGLES TYP.

ALT. CEILING GRID @ WALL

SCALE: 1-1/2"=1'-0" — 3A

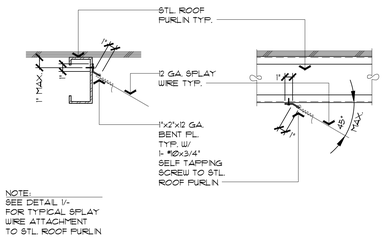
EITHER DETAIL 3 OR 3A TO BE USED FOR T- BAR CEILINGS, HOWEVER DO NOT MIX THESE DETAILS ON THE SAME CEILING.

NOTE:
AS AN ALTERNATE TO THE "CHICAGO 1200 SERIES" CEILING SYSTEM SHOWN ON DETAIL 3A/- PROVIDE A "DONN DX" CEILING SYSTEM WITH THE FOLLOWING COMPONENTS:

MAIN RUNNER	DX26	USG / DONN HEAVY DUTY SYSTEM TYP. PER ASCE 7-16 13.5.6.2.2.
CROSS RUNNER	DX424	
CROSS RUNNER	DX422	
WALL ANGLE	M9	

OR AN "ARMSTRONG" CEILING SYSTEM WITH THE FOLLOWING COMPONENTS:

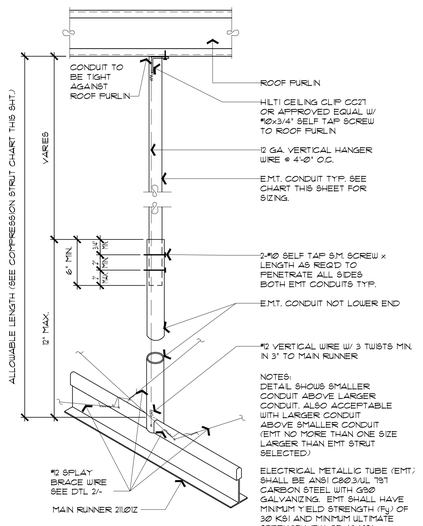
MAIN RUNNER	7301	ARMSTRONG HEAVY DUTY SYSTEM TYP. PER ASCE 7-16 13.5.6.2.2.
CROSS RUNNER	7340	
CROSS RUNNER	7328	
WALL ANGLE	7809	



NOTE:
SEE DETAIL 1/- FOR TYPICAL SPLAY WIRE ATTACHMENT TO STL. ROOF PURLIN

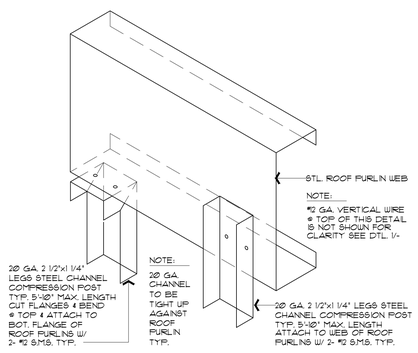
ALT. SPLAY WIRE BRACING

SCALE: 1-1/2"=1'-0" — 4



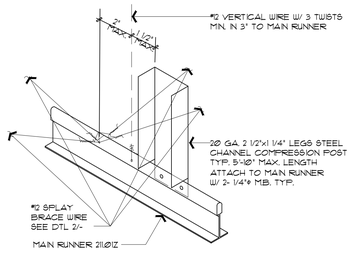
COMPRESSION STRUT DETAIL

SCALE: 1-1/2"=1'-0" — 7



OPTION 1 @ TOP

OPTION 2 @ TOP



ALT. COMPRESSION STRUT DETAIL

SCALE: 1-1/2"=1'-0" — 7A

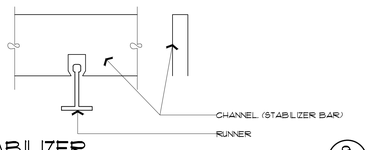
EMT COMPRESSION STRUT TABLE

MATERIAL:	ALLOWABLE LENGTHS:
1/2"ø EMT CONDUIT (Ø.042" WALL THICKNESS)	3'-11" MAX.
3/4"ø EMT CONDUIT (Ø.049" WALL THICKNESS)	6'-4" MAX.
1"ø EMT CONDUIT (Ø.057" WALL THICKNESS)	9'-9" MAX.
1 1/4"ø EMT CONDUIT (Ø.065" WALL THICKNESS)	12'-9" MAX.
1 1/2"ø EMT CONDUIT (Ø.065" WALL THICKNESS)	14'-9" MAX.
2"ø EMT CONDUIT (Ø.065" WALL THICKNESS)	18'-10" MAX.

STL. CHANNEL COMPRESSION STRUT TABLE

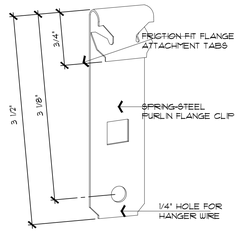
MATERIAL:	ALLOWABLE LENGTHS:
20 GA. 2 1/2"x1 1/4" LEGS STEEL CHANNEL	5'-10" MAX.
20 GA. 2 1/2"x1 3/8" LEGS STEEL CHANNEL	6'-10" MAX.
20 GA. 3 5/8"x1 3/8" LEGS STEEL CHANNEL	8'-0" MAX.
18 GA. 2 1/2"x1 3/8" LEGS STEEL CHANNEL	8'-10" MAX.
18 GA. 4"x1 3/8" LEGS STEEL CHANNEL	10'-10" MAX.

NOTE:
ROOF PURLINS ARE NOT SHOWN ON THIS DETAIL FOR CLARITY TYP.



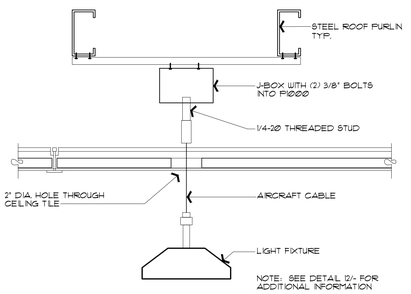
STABILIZER

SCALE: NONE — 9



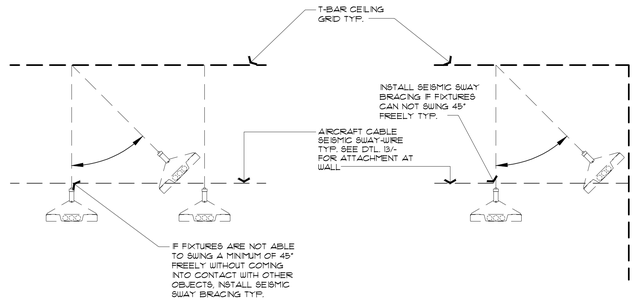
VF-14 CADDY CLIP (DOCS VOH14 SPRING CLIP IS SIM TO VF-14.)

SCALE: 1"=1" — 10



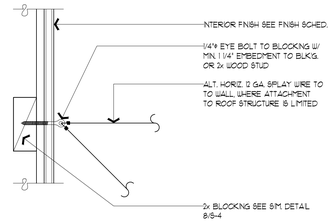
PENDANT LIGHT FIXTURE DETAIL

SCALE: 3"=1'-0" — 11



TYP. PENDANT HUNG FIXTURE BRACING DETAIL

SCALE: 1"=1'-0" — 12



WIRE BRACING DTL. AT WALL

SCALE: 3"=1'-0" — 13

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT (DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Meehleis Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Meehleis Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER MUHAMMAD R. HARRIS No. 3585 STRUCTURAL STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

DRAWN:	BLB
CHECKED:	MM

REVISIONS:

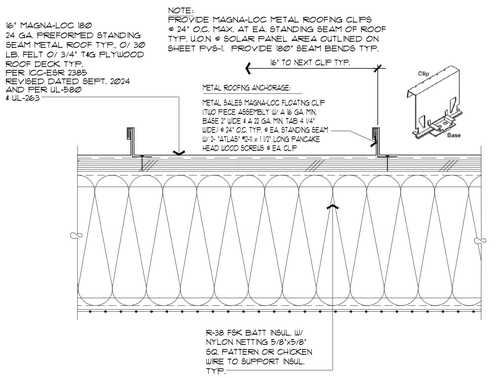
07-23-25	DSA CORRECTIONS

DATE	JULY 23, 2025
JOB NO.	25775

SHEET TITLE
CEILING DETAILS

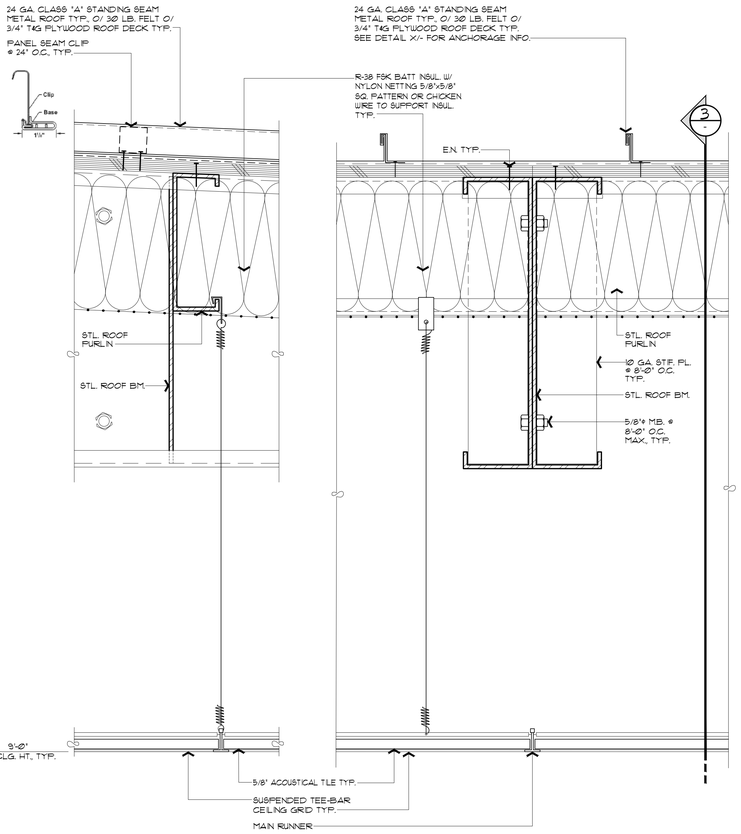
SHEET NO.
A-2A

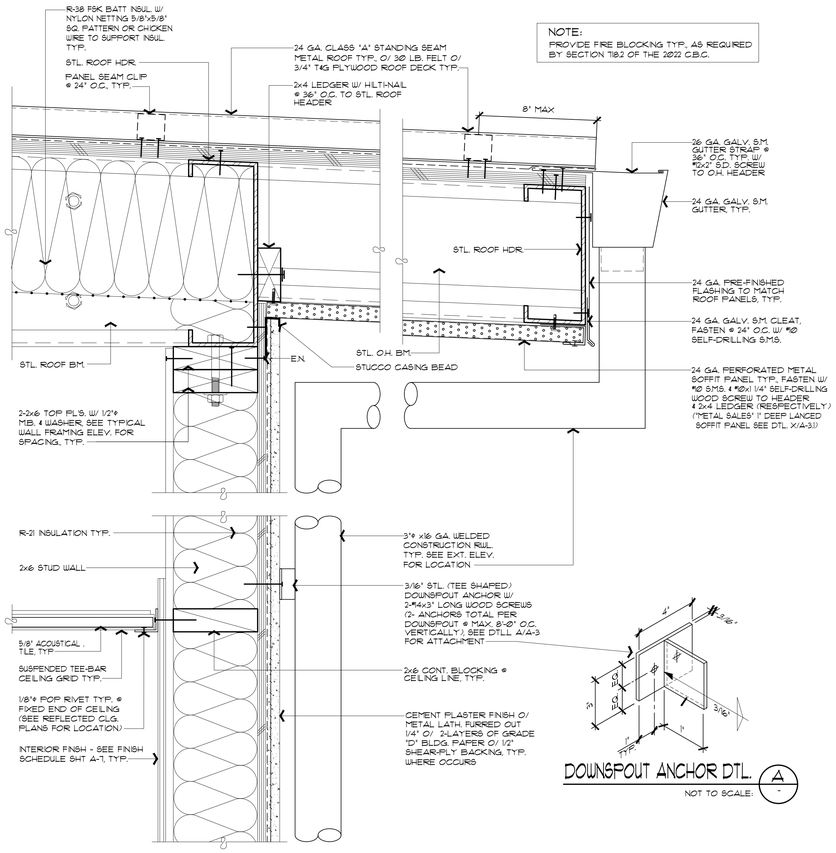
METAL ROOFING TO BE 16" MAGNA-LOC 180
24 GA. PREFORMED STANDING SEAM METAL
SALES ROOF PANELS TYP. PER ICC-ES REPORT
ESR-2385 REVISED DATED SEPT. 2024
PROVIDE 180° SEAM BENDS TYP. AS REQ'D.
FOR THE MAGNA-LOC 180 ROOF SYSTEM.



SECTION METAL ROOFING

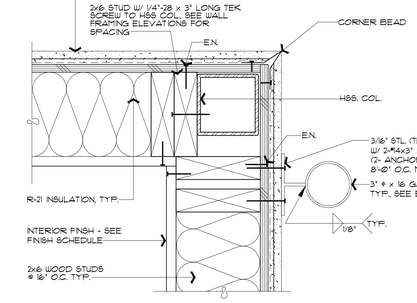
SCALE: 3"=1'-0" (X/-)





DOWNSPOUT ANCHOR DTL.

NOT TO SCALE: (A/-)



TYP. DETAIL @ BLDG. CORNER

SCALE 3"=1'-0" (4/-)

ROOF PURLIN

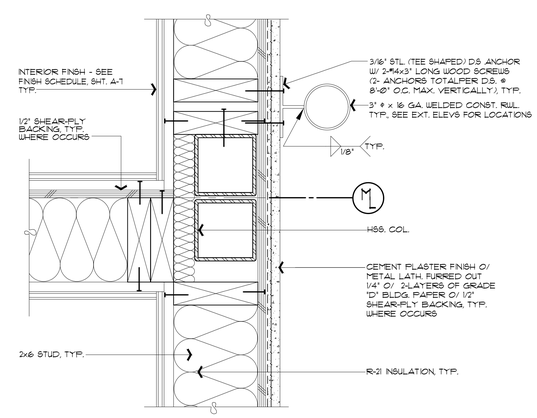
SCALE: 3"=1'-0" (3/-)

ROOF @ INT. MODLINE

SCALE: 3"=1'-0" (2/-)

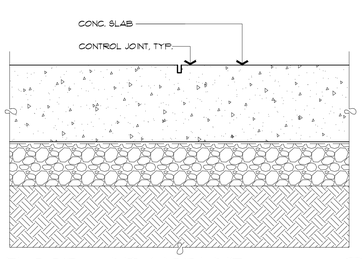
END WALL @ ROOF/CLG.

SCALE: 3"=1'-0" (1/-)



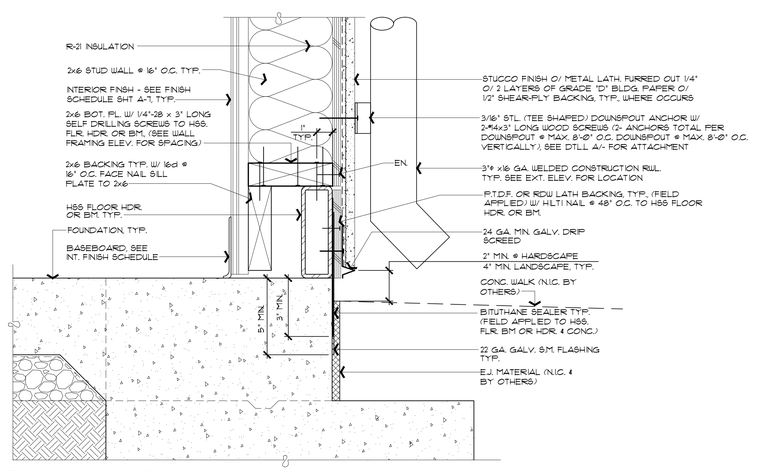
END WALL @ INT. MODLINE

SCALE: 3"=1'-0" (7/-)



FLOOR @ INT. MODLINE

SCALE: 3"=1'-0" (6/-)



END WALL @ FLOOR

SCALE: 3"=1'-0" (5/-)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Architect, Modular Buildings, Inc., and are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party, without first obtaining the expressed written permission of the Architect. © Modular Buildings, Inc.

MEEHLEIS
MODULAR
BUILDINGS, INC.
A DESIGN BUILD
COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. NASIRI
No. 3545
MRH STRUCTURAL
STATE OF CALIFORNIA
SIGNED 12-15-2025
MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

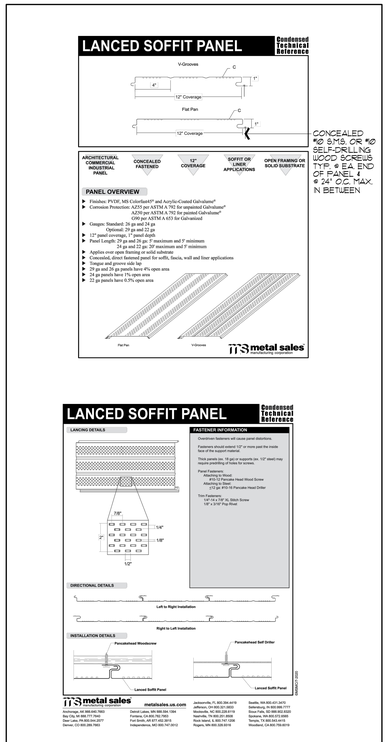
DRAWN: BLB
CHECKED: MM
REVISIONS:

07-23-25	DSA CORRECTIONS

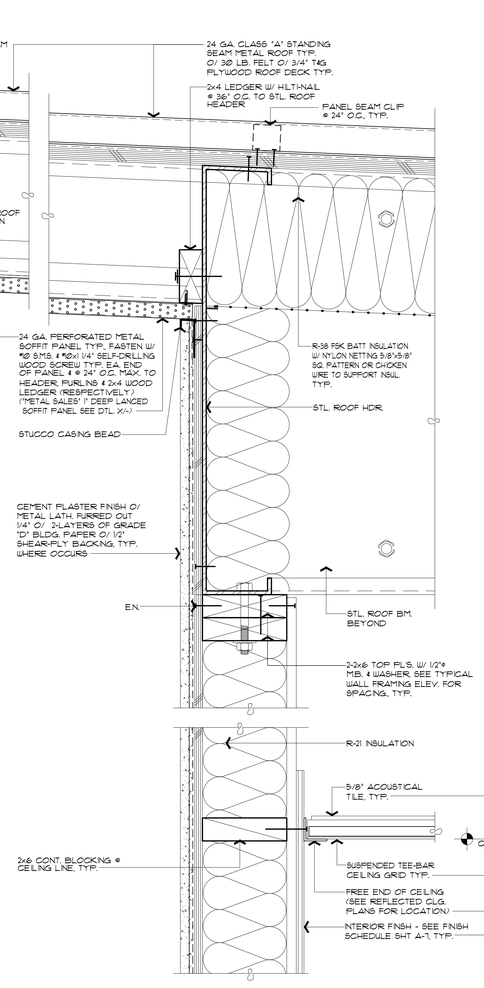
DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE
ARCHITECTURAL
CROSS-SECTIONS

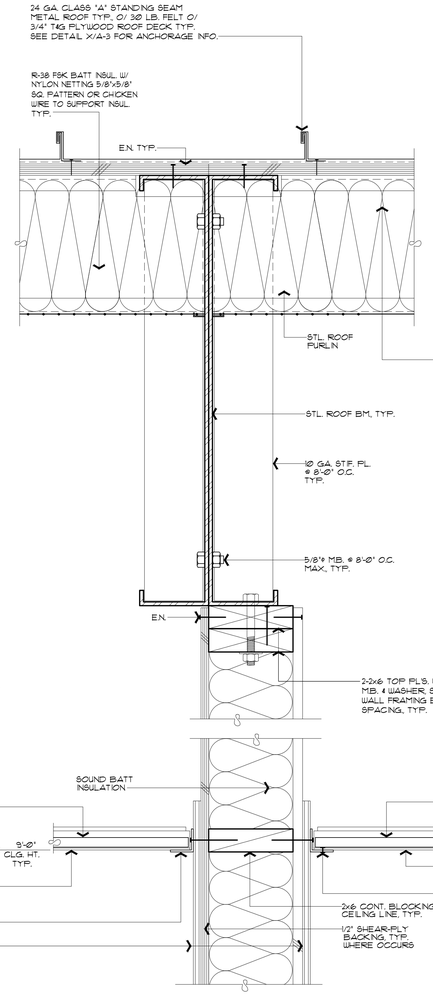
SHEET NO.
A-3



PERFORATED SOFFIT PANEL (X) - NOT TO SCALE

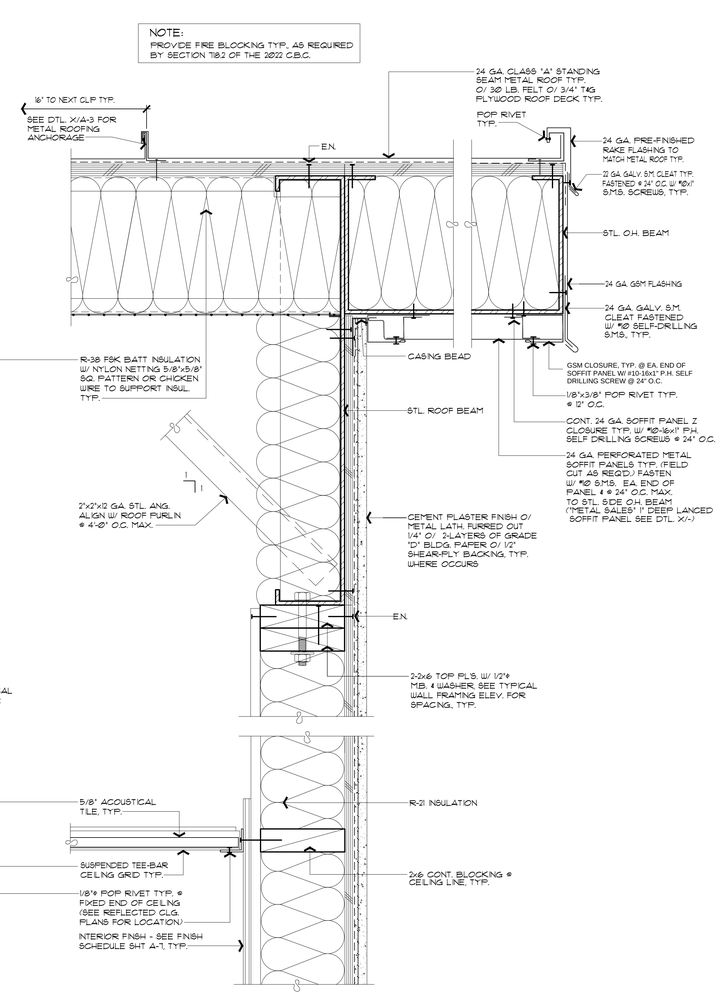


END WALL @ ROOF/CLG. (10) - SCALE: 3"=1'-0"

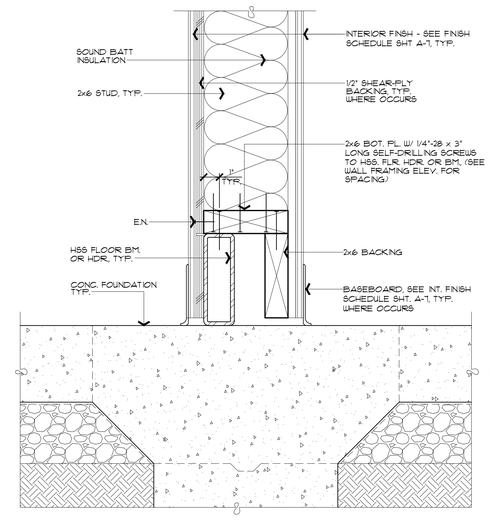


ROOF/CLG @ INT. MODLINE @ (SHEAR WALL) (9) - SCALE: 3"=1'-0"

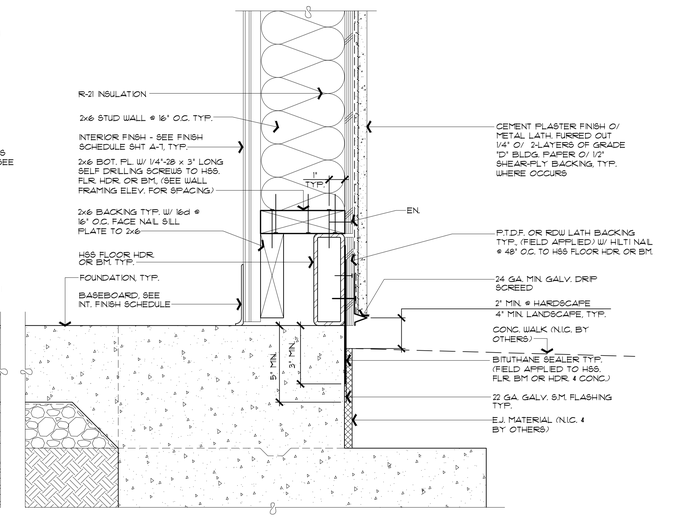
NOTE:
PROVIDE FIRE BLOCKING TYP., AS REQUIRED BY SECTION 718.2 OF THE 2022 C.B.C.



SIDE WALL @ ROOF O.H. (8) - SCALE: 3"=1'-0"



INT. WALL @ FLOOR (12) - SCALE 3"=1'-0"



SIDE WALL @ FLOOR (11) - SCALE 3"=1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Architect. Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever without the expressed written permission of the Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. HARIRI No. 3545 STRUCTURAL STATE OF CALIFORNIA
SIGNED 12-15-2025
MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN:	BLB
CHECKED:	MM

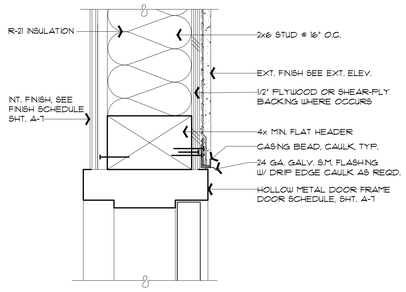
REVISIONS:

07-23-25	DSA CORRECTIONS

DATE	JULY 23, 2025
JOB NO.	25775

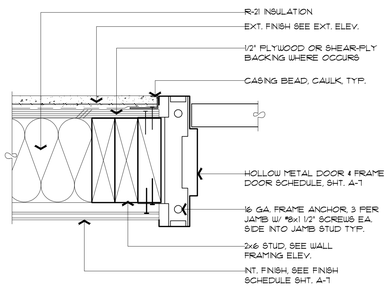
SHEET TITLE
ARCHITECTURAL CROSS-SECTIONS

SHEET NO.
A-3.1



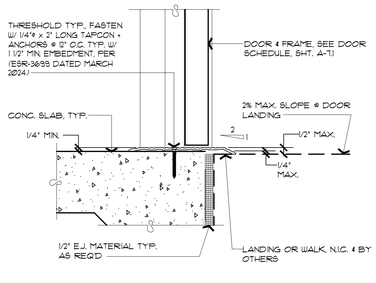
EXT. DOOR - HEADER 1

SCALE: 3"=1'-0"



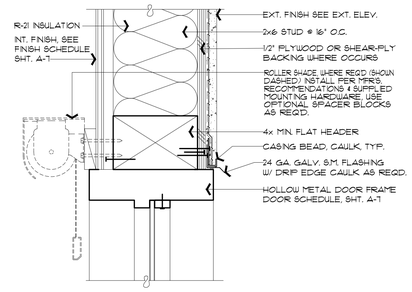
EXT. DOOR - JAMB 2

SCALE: 3"=1'-0"



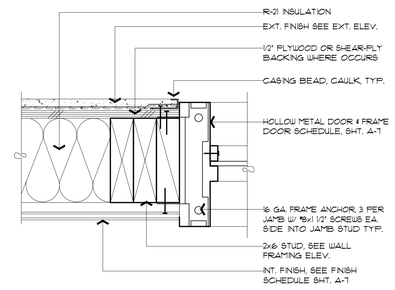
EXT. DOOR - BOTTOM 3

SCALE: 3"=1'-0"



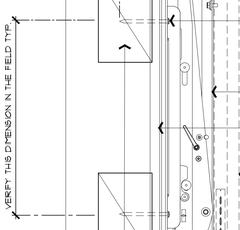
EXT. DOOR SIDE LITE WINDOW - HEAD 4

SCALE: 3"=1'-0"



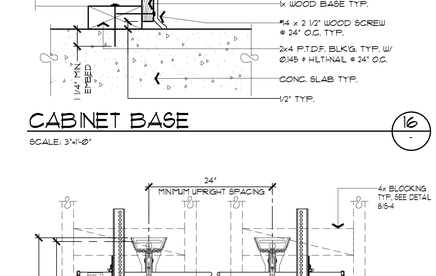
EXT. DOOR SIDE LITE WINDOW - JAMB 5

SCALE: 3"=1'-0"



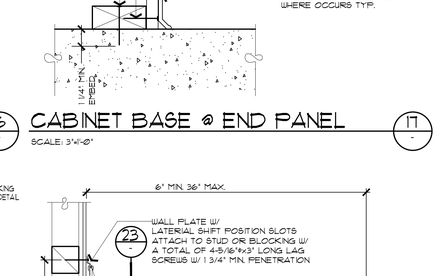
EXT. DOOR SIDE LITE WINDOW - SILL 6

SCALE: 3"=1'-0"



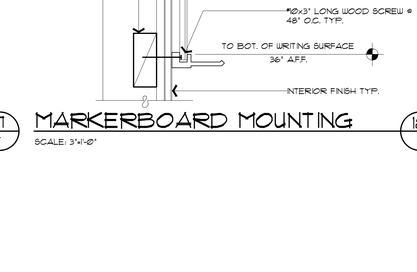
EXT. WINDOW - HEADER 7

SCALE: 3"=1'-0"



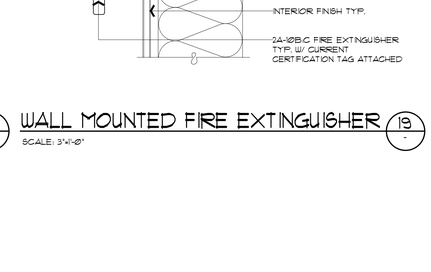
EXT. WINDOW - JAMB 8

SCALE: 3"=1'-0"



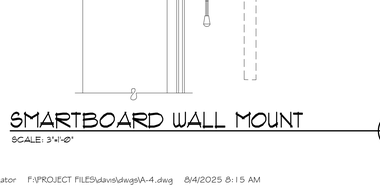
EXT. WINDOW - SILL 9

SCALE: 3"=1'-0"



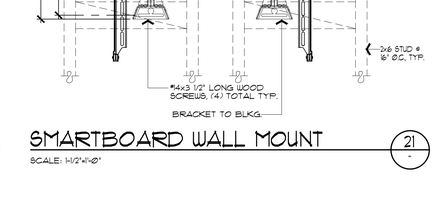
BASE CABINET MOUNTING 10

SCALE: 1"=1'-0"



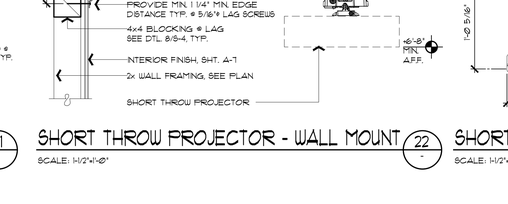
WALL HUNG SHELF/CABINET MOUNTING 11

SCALE: 1"=1'-0"



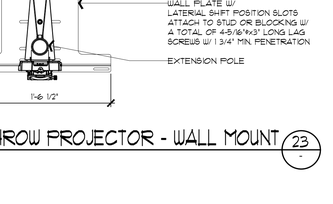
TALL CABINET MOUNTING (OVER 72" TALL) 12

SCALE: 1"=1'-0"



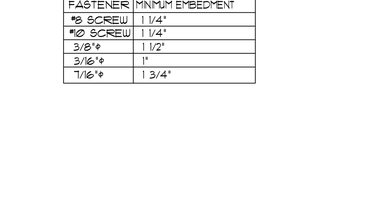
ACCESSIBLE SINK COUNTER 13

SCALE: 1"=1'-0"



CABINET MOUNTING 14

SCALE: 3"=1'-0"



CABINET BOTTOM @ WALL 15

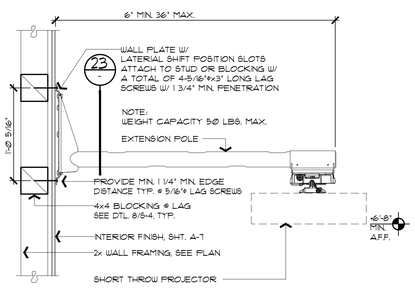
SCALE: 3"=1'-0"

SMARTBOARD WALL MOUNT 20

SCALE: 3"=1'-0"

SMARTBOARD WALL MOUNT 21

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

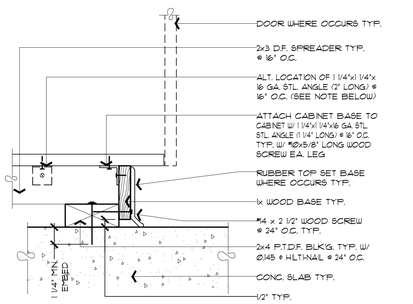


SHORT THROW PROJECTOR - WALL MOUNT 22

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

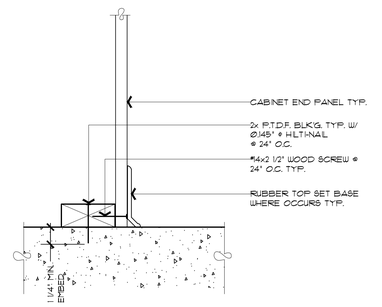
SHORT THROW PROJECTOR - WALL MOUNT 23

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



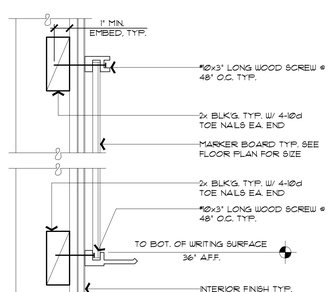
CABINET BASE 16

SCALE: 3"=1'-0"



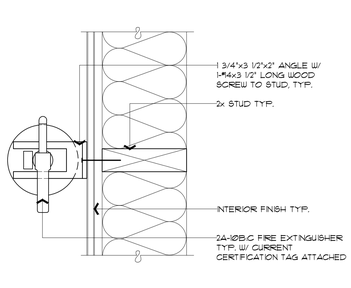
CABINET BASE @ END PANEL 17

SCALE: 3"=1'-0"



MARKERBOARD MOUNTING 18

SCALE: 3"=1'-0"



WALL MOUNTED FIRE EXTINGUISHER 19

SCALE: 3"=1'-0"

MINIMUM EMBEDMENT FOR FASTENERS	
FASTENER	MINIMUM EMBEDMENT
#8 SCREW	1 1/4"
#10 SCREW	1 1/4"
3/8"ø	1 1/2"
3/16"ø	1"
7/16"ø	1 3/4"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Architect, Modular Buildings, Inc., and are not to be reproduced, changed or copied in any form or manner whatsoever, nor assigned to any third party without first obtaining the expressed written permission of the Architect of Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC. A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. HASHEMI No. 3545 STRUCTURAL STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

DRAWN:	BLB
CHECKED:	MM

REVISIONS:

07-23-25	DSA CORRECTIONS

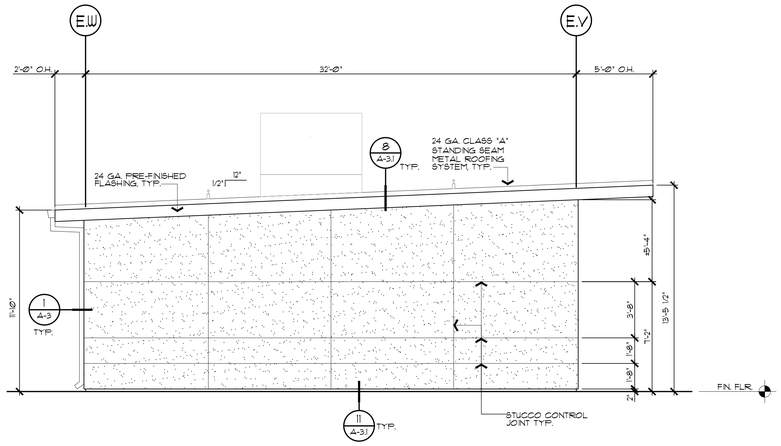
DATE	JULY 23, 2025
JOB NO.	25775

SHEET TITLE

ARCHITECTURAL DETAILS

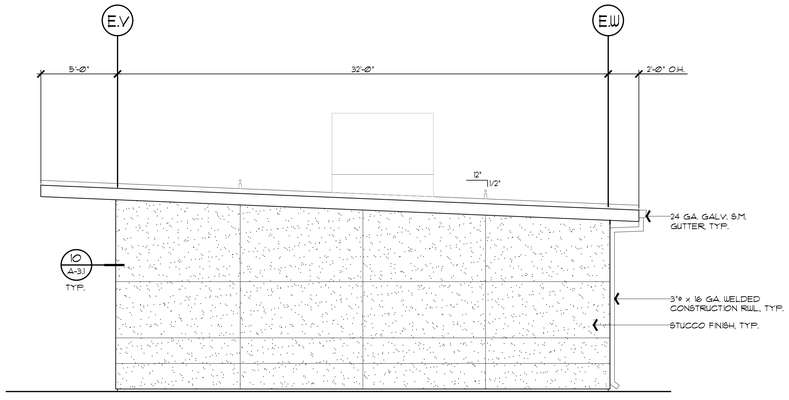
SHEET NO.

A-4



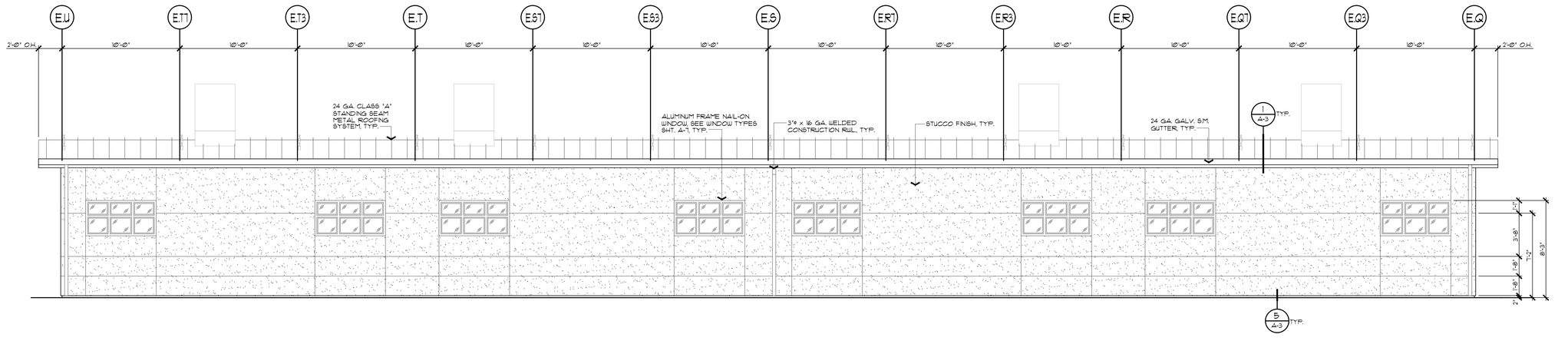
EXTERIOR ELEVATION NORTH

SCALE 1/4"=1'-0" (1)



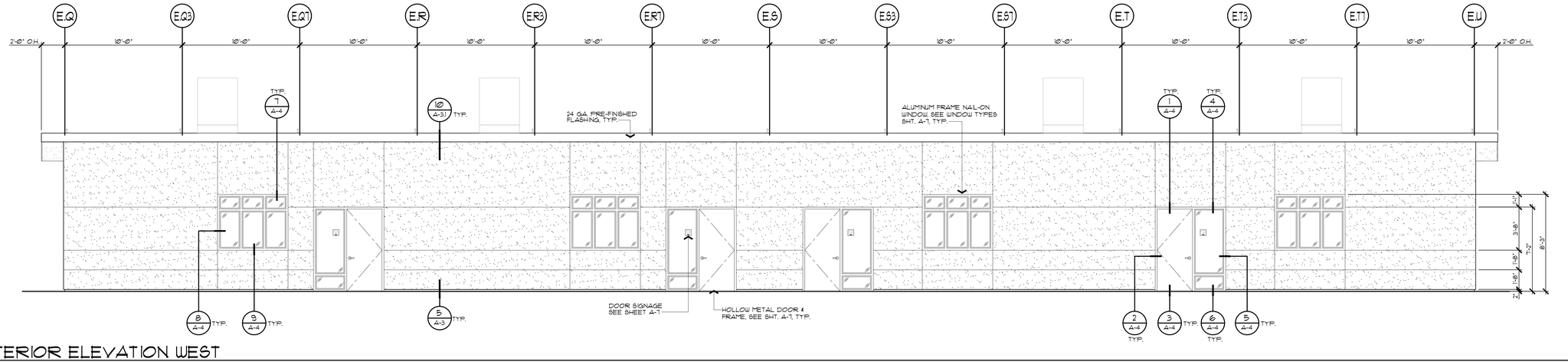
EXTERIOR ELEVATION SOUTH

SCALE 1/4"=1'-0" (2)



EXTERIOR ELEVATION EAST

SCALE 1/4"=1'-0" (3)



EXTERIOR ELEVATION WEST

SCALE 1/4"=1'-0" (4)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

(DAVIS)

These documents are the property of the Meehleis Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Meehleis Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY

1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. HARIRI
No. 3545
MRH STRUCTURAL
STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

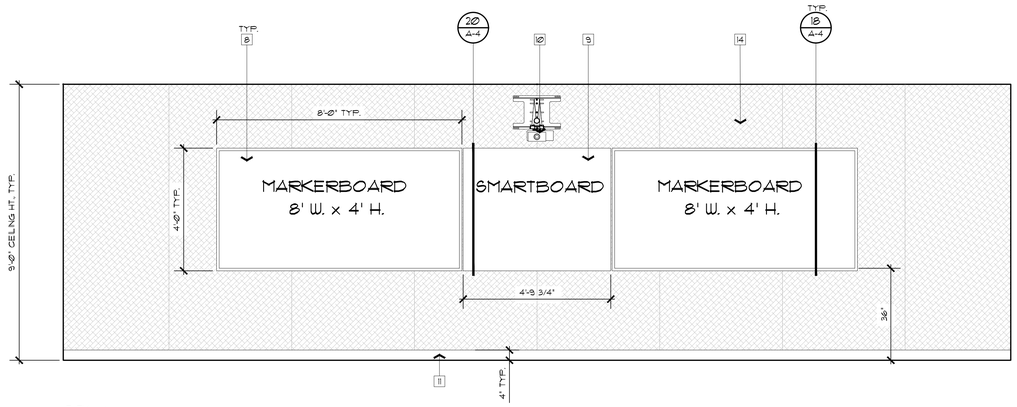
REVISIONS:

07-23-25	DSA CORRECTIONS

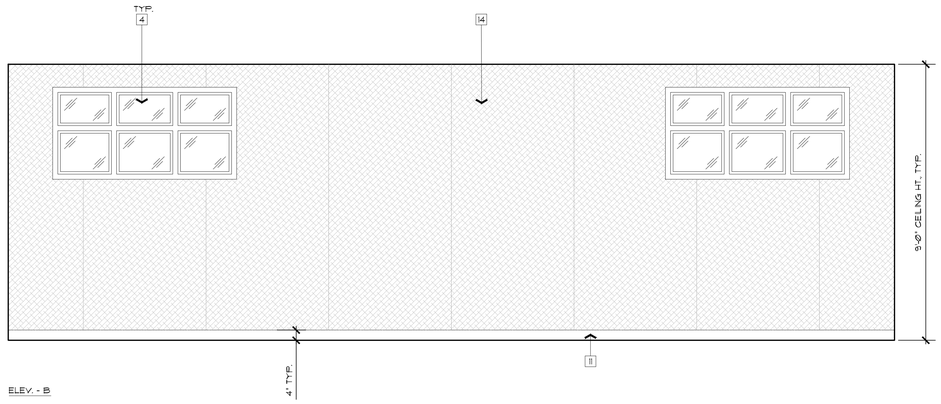
DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE
EXTERIOR ELEVATION SINGLE BLDG.

SHEET NO.
A-5

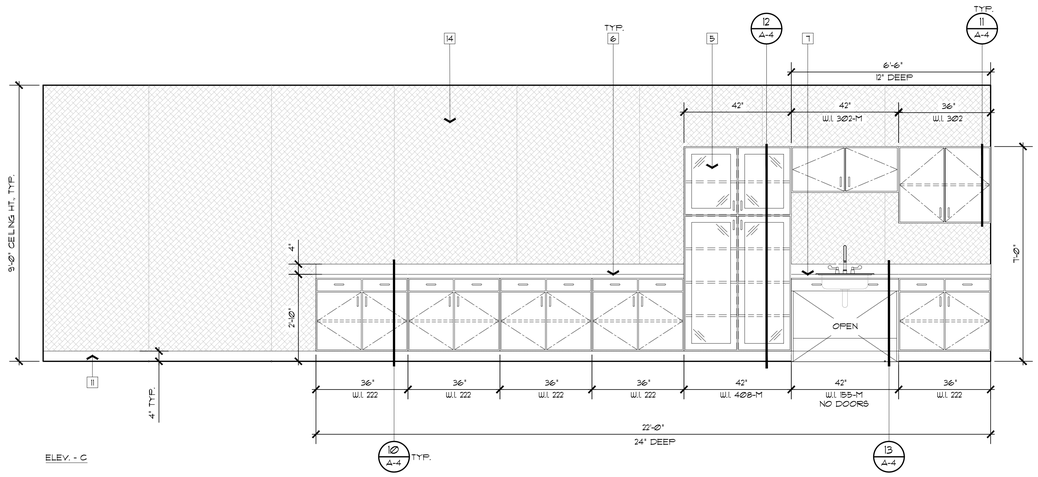


ELEV. - A

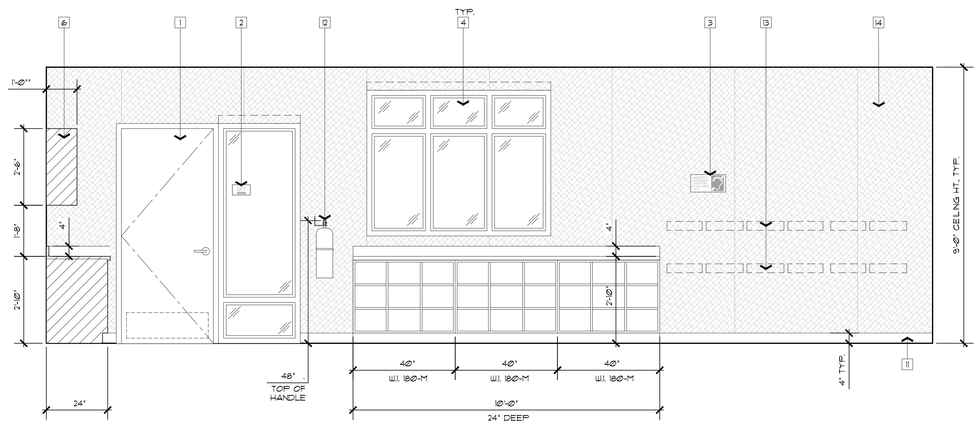


ELEV. - B

CLASSROOMS J101, J102, J103, J104



ELEV. - C



ELEV. - D

CLASSROOMS J101, J102 (J103, J104 - O.H.)

CLASSROOMS J101, J102 (J103, J104 - O.H.)

INTERIOR ELEVATIONS

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

GENERAL NOTES

1. SEE SHEET A-1 FOR ACCESSIBLE MOUNTING HEIGHTS & DIMENSIONS NOT SHOWN.
2. SEE PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR SCHEDULES, FIXTURES, NOTES AND DIMENSIONS NOT SHOWN ON THIS SHEET

KEY NOTES

1. DOOR & FRAME, SEE SHT. A-7 FOR SIZE, TYPE AND DOOR SCHEDULE
2. DOOR SIGNAGE, SEE, SHT. A-7
3. ASSISTIVE LISTENING SYSTEM SIGNAGE, SEE SHT. A-7
4. ALUMINUM FRAME WINDOW, SEE WINDOW TYPES SHEET A-7
5. PLASTIC LAMINATE TALL CABINET, SEE DETAIL 2/A-4 FOR MOUNT
6. PLASTIC LAMINATE UPPER & LOWER CASEWORK, SEE DET. 10 & 11/A-4 FOR MOUNT, SHEET 8/8-4 FOR BLOCKING
7. ACCESSIBLE SINK, COUNTERTOP & BACK SPLASH SEE DETAIL 13/A-4, SEE PLUMBING DWGS.
8. 8'-0"x 4'-0" MARKERBOARD, SEE DETAIL 18/A-4 FOR MOUNT
9. WALL MOUNT SMARTBOARD, SEE DETAIL 20/A-4 FOR MOUNT
10. WALL MOUNT PROJECTOR, SEE DETAIL 22/A-4 FOR MOUNT
11. RUBBER TOPSET BASEBOARD, SEE INT. WALL FINISH SCHEDULE SHT. A-7
12. WALL MOUNTED FIRE EXTINGUISHER, SEE DETAIL 19/A-4
13. PROVIDE 2-ROWS OF 4x4 BLOCKS FOR WALL MOUNTED HOOKS, SEE DETAIL 8/8-4, TYP.
14. TACKBOARD.

LEGEND

1/2" PREFABRICATED VINYL WRAPPED TACKABLE WALL PANEL O/ GYP BD., SEE INT. FINISH SCHEDULE, SHT. A-7

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modern Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Modern Modular Buildings, Inc.

MEEHLEIS
MODULAR
BUILDINGS, INC.
A DESIGN BUILD
COMPANY

1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. YEAMIN
No. 3545
STRUCTURAL
STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN:	BLB
CHECKED:	MM

REVISIONS:

07-23-25	DSA CORRECTIONS

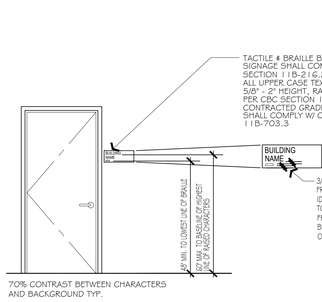
DATE	JULY 23, 2025
JOB NO.	25775

SHEET TITLE

INTERIOR ELEVATIONS

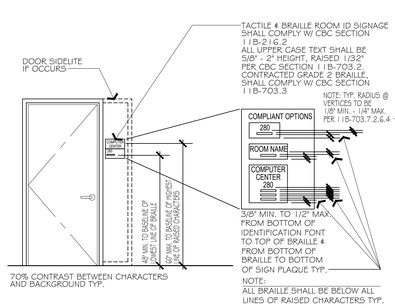
SHEET NO.

A-6



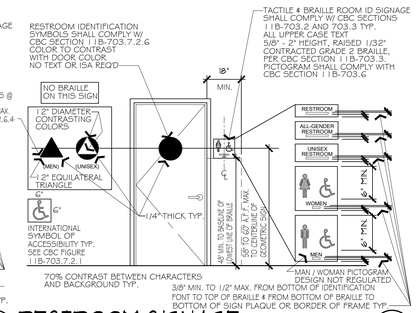
BUILDING ENTRANCE

SCALE: 3/8"=1'-0" (ROOM EXTERIOR) 1



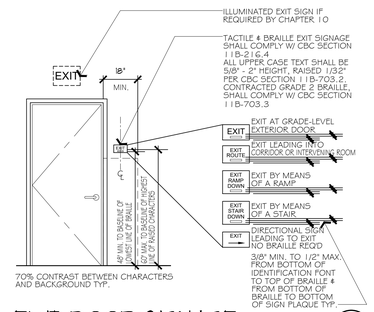
ROOM ID. SIGNAGE

SCALE: 3/8"=1'-0" (ROOM EXTERIOR) 2



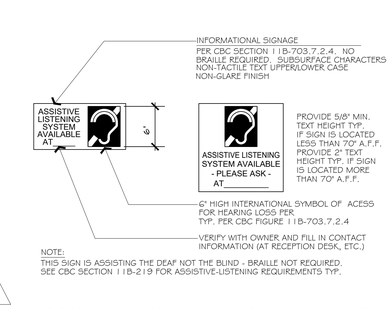
RESTROOM SIGNAGE

SCALE: 3/8"=1'-0" (ROOM EXTERIOR) 3



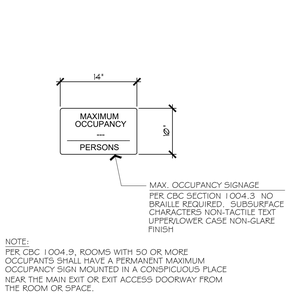
EXIT DOOR SIGNAGE

SCALE: 3/8"=1'-0" 4



ASSISTIVE LISTENING SIGNAGE

SCALE: 3/8"=1'-0" 5



MAXIMUM OCCUPANCY SIGN

N.T.S. 6

DOOR HARDWARE:

Hardware Set No. 1 (Each Exterior Classroom Door):

1	Lockset SCH ND50PD RHO x Lever Handle
1	Continuous Hinge IVES 224HD-83 LS28
1	Threshold Pemko 272A x 36" (1/2" max.)
1	Door Bottom Pemko 345 AV
1	GASKETING ZERO INTL. 328
1	Door Closer LCN 4040XP (Adjust for maximum 5 lb. opening pressure)

2 Max slope

Notes:

Thresholds in the path of travel in conformance with 11B-404.2.5

Closer-effort to be 5 lbs at exterior doors and interior doors per 11B-404.2.9.

The Authority having jurisdiction, may increase the maximum effort to operate fire doors to acchieve positive latching, but not to exceed 15 lbs. max.

Specify door closer to comply with 11B-404.2.8.1, closer delay time.

Where flush bolts occur in the POT, specify accessible flush bolt(automatic).

Hand-activated hardware between 34" to 44" A.F.F., 36" preferreds lever-type hardware, panic bars, push-pull activatings lever handle for thumb turn dead bolt per 11B-404.2.7

Door to be openable inside without special effort or knowledge.

KEYING BY THE OWNER.

DOOR SCHEDULE - TYP. CLASSROOM BUILDING -

SEE SPECS FOR DOOR HARDWARE

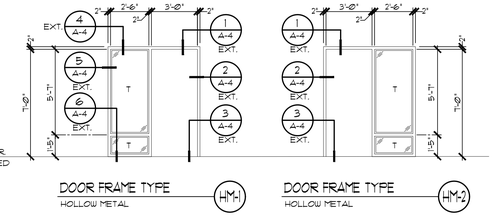
DOOR NO.	ROOM NAME:	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	MATERIAL	FINISH	GLAZING	RATING	FRAME TYPE	MATERIAL	FINISH	HARDWARE GROUP NO.	REQUIRED SIGNAGE TYPE	REMARKS
J@1A	CLASSROOM J@1	3'-0"	7'-0"	1 3/4"	A	H.M.	PT	T	-	HM-1	H.M.	PT	1	2, 3	-
J@2A	CLASSROOM J@2	3'-0"	7'-0"	1 3/4"	A	S.C.	PT	T	-	HM-1	H.M.	PT	1	2, 3	-
J@3A	CLASSROOM J@3	3'-0"	7'-0"	1 3/4"	B	H.M.	PT	T	-	HM-2	H.M.	PT	1	2, 3	-
J@4A	CLASSROOM J@4	3'-0"	7'-0"	1 3/4"	B	H.M.	PT	T	-	HM-2	H.M.	PT	1	2, 3	-

ABBREVIATIONS

H.M.	HOLLOW METAL
PT	PAINT
T	TEMPERED GLASS

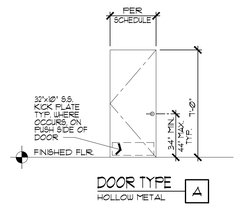
NOTES

1.	DOOR SIGNAGE, SEE DETAILS 1 THRU 3 - (PROVIDED BY SITE CONTRACTOR)
2.	DOOR CLOSERS SHALL BE INSTALLED TO PERMIT DOORS TO SWING 180 DEGREES



DOOR FRAME TYPES

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



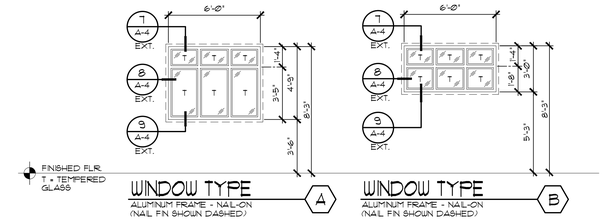
DOOR TYPES

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

TYPICAL CLASSROOM BUILDING INTERIOR FINISH SCHEDULE

RM. NO.	ROOM NAME:	FLOOR MATERIAL:	BASE: MATERIAL	BASE: HT.	WALL MATERIAL: NORTH	SOUTH	EAST	WEST	CEILING: MATERIAL:	CEILING: HT.
J@1	CLASSROOM	LVT-1, LUXURY VINYL TILE 4 WOM-1 WALK OFF MAT (SEE FLOOR PLAN FOR LOCATIONS)	RUBBER TOPSET	4"	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	5/8" ACOUSTICAL TILES IN A SUSPENDED T-BAR CEILING GRID	9'-0"
J@2	CLASSROOM	LVT-1, LUXURY VINYL TILE 4 WOM-1 WALK OFF MAT (SEE FLOOR PLAN FOR LOCATIONS)	RUBBER TOPSET	4"	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	5/8" ACOUSTICAL TILES IN A SUSPENDED T-BAR CEILING GRID	9'-0"
J@3	CLASSROOM	LVT-1, LUXURY VINYL TILE 4 WOM-1 WALK OFF MAT (SEE FLOOR PLAN FOR LOCATIONS)	RUBBER TOPSET	4"	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	5/8" ACOUSTICAL TILES IN A SUSPENDED T-BAR CEILING GRID	9'-0"
J@4	CLASSROOM	LVT-1, LUXURY VINYL TILE 4 WOM-1 WALK OFF MAT (SEE FLOOR PLAN FOR LOCATIONS)	RUBBER TOPSET	4"	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	1/2" VNYL COVERED TACKBOARD OVER GYP. BD. OR PLYWD. BACKING	5/8" ACOUSTICAL TILES IN A SUSPENDED T-BAR CEILING GRID	9'-0"

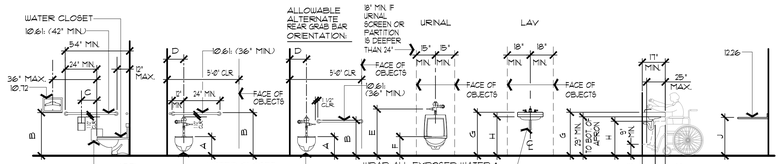
@.@1	CHALKBOARD
@.@2	MARKERBOARD
@.@20	TOILET ROOM SIGN
@.@21	TOILET ROOM IDENTIFICATION SIGN
@.@22	ROOM IDENTIFICATION SIGN SEE DTL @@-
@.@23	ASSISTIVE LISTENING DEVICE SIGN
@.@40	FIRE EXTINGUISHER AND CABINET
@.@41	FIRE EXTINGUISHER: WALL MOUNTED
@.@61	GRAB BAR
@.@65	SHELVES
@.@66	TOILET TISSUE DISPENSER
@.@67	SOAP DISPENSER
@.@68	PAPER TOWEL DISPENSER
@.@69	ELECTRIC HAND DRYER
@.@70	SANITARY NAPKIN DISPENSER
@.@71	SANITARY NAPKIN RECEPTACLE (12" MAX. IN FRONT OF TOILET)
@.@72	SEAT COVER DISPENSER
@.@77	MIRROR
@.@26	DESKTOP: WRITING SURFACE
@5.@5	DRINKING FOUNTAIN
@6.@5	SPEAKER
@6.@6	CLOCK: BATTERY
@6.@8	CALL BUTTON



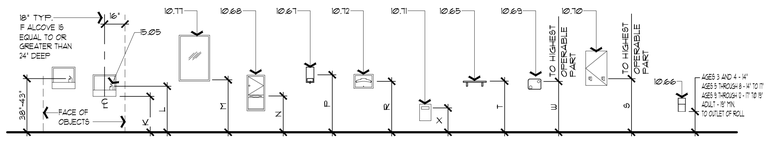
WINDOW TYPES

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

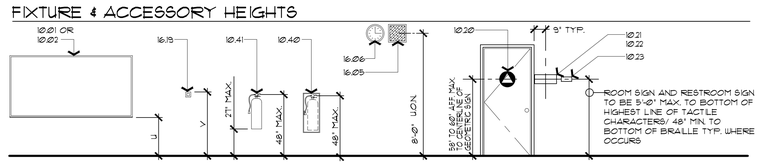
TYPICAL MOUNTING HEIGHT KEYNOTES: 9



FIXTURE & HEIGHTS



FIXTURE & ACCESSORY HEIGHTS



FURNITURE & EQUIPMENT HEIGHTS — ROOM SIGNAGE ELEVATION

TYPICAL MOUNTING HEIGHTS & ATTACHMENT REFERENCES

SCALE: 1/4"=1'-0" 7

ADDITIONAL SIGN NOTES:

FINISH AND CONTRAST:

1. CHARACTERS AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND PER CBC SECTION 11B-703.5.1.

CHARACTER PROPORTIONS:

2. VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I" PER CBC SECTION 11B-703.5.4. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 30 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER PER CBC SECTION 11B-703.5.1.

RAISED CHARACTERS:

3. RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I" PER CBC SECTION 11B-703.2.4. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER PER CBC SECTION 11B-703.2.6.

4. MOUNTING LOCATION AND HEIGHT:

SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS PER CBC SECTION 11B-703.4.

GENERAL NOTES:

1. SEE EXTERIOR ELEVATIONS FOR DOOR & WINDOW DETAIL REFERENCES NOT SHOWN ON THIS SHEET.
2. OVERALL DIMENSIONS ARE NOMINAL, AND SHALL BE VERIFED IN THE FIELD BY THE CONTRACTOR.
3. ALL GLAZING TO BE AS PER THE SPECIFICATIONS.
4. DOOR KICK PLATES SHALL BE SMOOTH UNINTERRUPTED SURFACE 10" HIGH ON PUSH SIDE OF DOOR.

WINDOW GLAZING NOTES:

SAFETY GLAZING IS REQUIRED AT GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OR THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60-INCHES ABOVE THE WALKING SURFACE.

WINDOW GLAZING TO HAVE AN OVERALL U-FACTOR OF @32 OVERALL SHGC. OF @25 4 OVERALL V.T. OF @50

DOOR CODE COMPLIANCE:

1. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
2. INSTALL FLOOR STOPS IN LOCATION NOT TO CAUSE TRIPPING HAZARD IN PATH OF TRAVEL, 4" MAX. FROM WALL.
3. HARDWARE AT EXTERIOR DOOR OF CLASSROOMS AND ROOMS WITH OCCUPANT LOADS GREATER THAN 4 (PER CBC @@2.1.2.2.) SHALL INCLUDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. THE LOCKS SHALL CONFORM TO THE SPECIFICATION AND REQUIREMENTS FOUND IN SECTION @@2.2.

DIM.	ITEM OR KEYNOTE	ADULT AGE OVER 12 STANDARD	ADULT AGE OVER 12 ACCESSIBLE	AGES 9-12 STANDARD	AGES 9-12 ACCESSIBLE	AGES 5-8 STANDARD	AGES 5-8 ACCESSIBLE	AGES 3-4 ACCESSIBLE
A	WATER CLOSET (TOP OF SEAT)	15"	17"-19"	15"	15"-17"	15"	12"-15"	11"-12"
B	GRAB BAR (TO TOP OF GRAB BAR)	-	33"-36"	-	25"-27"		20"-25"	18"-20"
C	TOILET TISSUE DISPENSER (TO WATER CLOSET)	7" - 9"	7" - 9"	7" - 9"	7" - 9"	7" - 9"	7" - 9"	7" - 9"
D	WATER CLOSET (CENTER TO WALL)	18"	17" - 18"	17"	15"-18"	15"	12"-15"	12"
E	URINAL (TOP OF FLUSH HANDLE)	-	44" MAX.	-	37" MAX.	-	32" MAX.	32" MAX.
F	URINAL (TOP OF LIP)	24"	17" MAX.	17"	15" MAX.	-	15" MAX.	15" MAX.
G	LAV (TOP OF SINK)	34"	34" MAX.	34"	31" MAX.	34"	31" MAX.	31" MAX.
H	LAV (KNEE CLEARANCE)	27"	27" MIN.	-	24"MIN	-	24"MIN	N/A FOR SIDE APPROACH
J	DESKTOP	30"	30"	27"	30"	24"	30"	30"
K	DRINKING FOUNTAIN (KNEE CLEARANCE)	-	27" MIN.	-	N/A FOR SIDE APPROACH	-	N/A FOR SIDE APPROACH	N/A FOR SIDE APPROACH
L	DRINKING FOUNTAIN (TO OF BUBBLER)	38" MIN. 43" MAX.	36" MAX.	28"	30" MAX. FOR SIDE APPROACH	28"	30" MAX. FOR SIDE APPROACH	30" MAX. FOR SIDE APPROACH
M	MIRROR (TO BOTTOM OF REFLECTIVE SURFACE)	40"	40" MAX. **	36"	34" MAX.	36"	34" MAX.	32" MAX.
N	PAPER TOWEL DISPENSER	40"	40" MAX. *	36"	36" MAX.	36"	32" MAX.	32" MAX.
P	SOAP DISPENSER	40"	40" MAX. *	36"	36" MAX.	36"	32" MAX.	32" MAX.
R	SEAT COVER DISPENSER	40"	40" MAX. *	40"	36" MAX.	40"	32" MAX.	32" MAX.
S	SANITARY NAPKN DISPENSER	40"	40" MAX. *	-	36" MAX.	-	-	-
T	SHELVES	48"	40" MAX.	-	36" MAX.		32" MAX.	32" MAX.
U	CHALKBOARD MARKERBOARD	36"	-	30"	-	30"	-	-
V	CALL BUTTON	48"	48" MAX. *	48"	48"	-	-	-
W	ELECTRIC HAND DRYER	40"	40" *	36"	36"	32"	32"	32"
X	SANITARY NAPKN RECEPTACLE	-	19" MIN. *	-	-	-	-	-

NOTE: DIMENSIONS FOR WATER CLOSET ARE TO TOP OF SEAT, SEAT IS NOMINAL 3/4" THICK.
* TO OPERABLE MECHANISM
** WHERE MIRROR IS NOT MOUNTED ABOVE A LAVATORY OR COUNTER BOTTOM OF REFLECTIVE EDGE IS 35" A.F.F. MAX.

MOUNTING HEIGHTS

8

ALL WEATHER ARCHITECTURAL ALUMINUM

NFRC Products Quick Reference Guide - Windows

Series 5000 - 2 1/4" Thermally Broken Fill & Debridge Aluminum Window

Glass Make Up	Fixed U-Factor	Fixed SHGC	Casement U-Factor	Casement SHGC	Awning U-Factor	Awning SHGC
3/16 5860 / Air / 3/16 Clear *	0.37	0.34	0.48	0.28	0.48	0.28
3/16 5860 / Argon / 3/16 Clear	0.34	0.34	0.45	0.27	0.45	0.27
3/16 5870 / Air / 3/16 Clear	0.37	0.24	0.48	0.20	0.48	0.20
3/16 5870 / Argon / 3/16 Clear	0.33	0.24	0.45	0.19	0.45	0.19
3/16 5870 / Argon / 3/16 Energy Advantage #4	0.29	0.23	0.41	0.19	0.42	0.19
3/16 366 / Air / 3/16 Clear	0.36	0.24	0.49	0.20	0.49	0.20
3/16 366 / Argon / 3/16 Clear	0.32	0.24	0.46	0.19	0.46	0.19
3/16 366 / Argon / 3/16 Cardinal 1589 #4	0.28	0.23	0.42	0.19	0.43	0.19

Series 6000 2 1/2" Thermal Strut Aluminum Window

Glass Make Up	Fixed U-Factor	Fixed SHGC	Casement U-Factor	Casement SHGC	Awning U-Factor	Awning SHGC
3/16 5860 / Air / 3/16 Clear *	0.35	0.34	0.45	0.27	0.45	0.27
3/16 5860 / Argon / 3/16 Clear	0.31	0.34	0.42	0.26	0.42	0.26
3/16 5870 / Air / 3/16 Clear	0.35	0.24	0.45	0.19	0.45	0.19
3/16 5870 / Argon / 3/16 Clear	0.31	0.24	0.41	0.19	0.41	0.19
3/16 5870 / Argon / 3/16 Energy Advantage #4	0.26	0.23	0.38	0.18	0.38	0.18
3/16 366 / Air / 3/16 Clear	0.34	0.24	0.44	0.19	0.44	0.19
3/16 366 / Argon / 3/16 Clear	0.30	0.24	0.41	0.19	0.41	0.19
3/16 366 / Argon / 3/16 Cardinal 1589 #4	0.26	0.23	0.37	0.18	0.38	0.18

Series 6100 3 3/4" Thermal Strut Aluminum Window

Glass Make Up	Fixed U-Factor	Fixed SHGC	Casement U-Factor	Casement SHGC	Awning U-Factor	Awning SHGC
3/16 5870 / Air / 3/16 Clear	0.37	0.24	0.41	0.19	0.42	0.19
3/16 5870 / Argon / 3/16 Clear	0.33	0.23	0.38	0.19	0.38	0.19
3/16 5870 / Argon / 3/16 Energy Advantage #4	0.29	0.22	0.33	0.18	0.34	0.18
3/16 366 / Air / 3/16 Clear	0.34	0.23	0.38	0.19	0.38	0.19
3/16 366 / Argon / 3/16 Clear	0.29	0.23	0.34	0.19	0.35	0.19
3/16 366 / Argon / 3/16 Cardinal 1589 #4	0.25	0.23	0.31	0.18	0.32	0.18

ALL WEATHER ARCHITECTURAL ALUMINUM

NFRC Products Quick Reference Guide - Doors

Series 7000 - Thermal Strut Aluminum Swing Door

Glass Make Up	Inswing Standard Sill U-Factor	Inswing Standard Sill SHGC	Outswing Standard Sill U-Factor	Outswing Standard Sill SHGC	Sidelite/ Topllite U-Factor	Sidelite/ Topllite SHGC
3/16 5860 / Air / 3/16 Clear *	0.41	0.26	0.42	0.26	0.36	0.33
3/16 5860 / Argon / 3/16 Clear	0.38	0.26	0.39	0.26	0.33	0.32
3/16 5870 / Air / 3/16 Clear	0.41	0.19	0.42	0.19	0.36	0.23
3/16 5870 / Argon / 3/16 Clear	0.38	0.18	0.38	0.19	0.32	0.23
3/16 5870 / Argon / 3/16 Energy Advantage #4	0.35	0.18	0.36	0.18	0.28	0.22

Thermal Strut Aluminum Sliding Door (Series 8000 & 8100)

Glass Make Up	8000 Sliding Door U-Factor	8000 Sliding Door SHGC	8100 Sliding Door u-Factor	8100 Sliding Door SHGC
3/16 5860 / Air / 3/16 Clear *	0.41	0.30	0.35	0.31
3/16 5860 / Argon / 3/16 Clear	0.37	0.30	0.36	0.31
3/16 5870 / Air / 3/16 Clear	0.41	0.21	0.39	0.22
3/16 5870 / Argon / 3/16 Energy Advantage #4	0.30	0.20	0.31	0.21
1/4 5870 / Argon / 1/4 Energy Advantage #4	0.30	0.22	0.31	0.21

* Default glass used for quoting unless otherwise stated
** Other glass make ups available upon request.

4.18.22

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Architect, Meehleis Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Architect. ©Meehleis

MEEHLEIS MODULAR BUILDINGS, INC. A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. MAHANI No. 3545 CIVIL STRUCTURAL STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL).(714) 633-6302

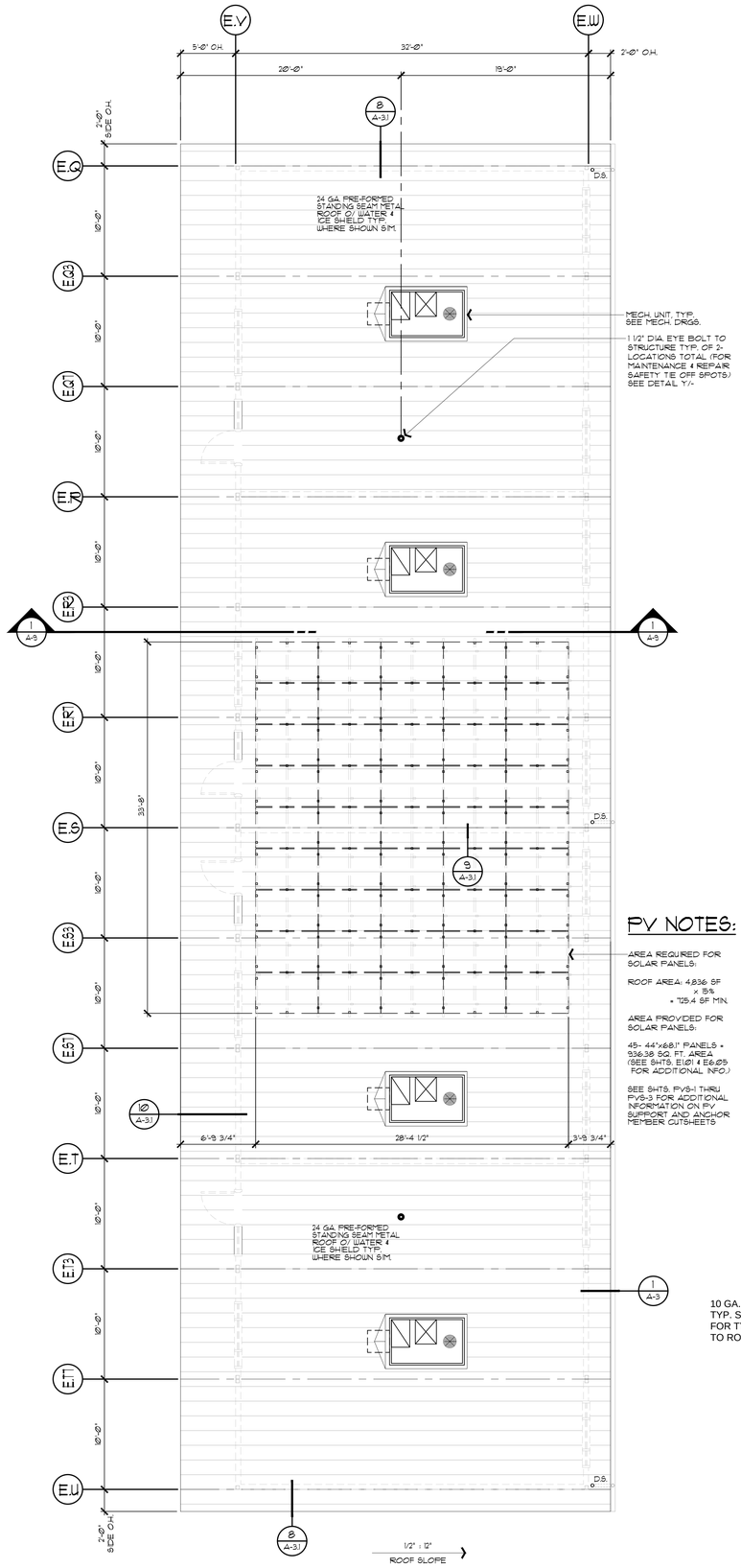
DRAWN: BLB
CHECKED: MM
REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE
DOOR & WINDOW TYPES
DOOR & FINISH SCHEDULES
SIGNAGE DETAILS AND
ACCESSIBLE MOUNTING HEIGHTS

SHEET NO.
A-7



CLASSROOM ROOF PLAN

SCALE: 3/16"=1'-0"

PV NOTES:

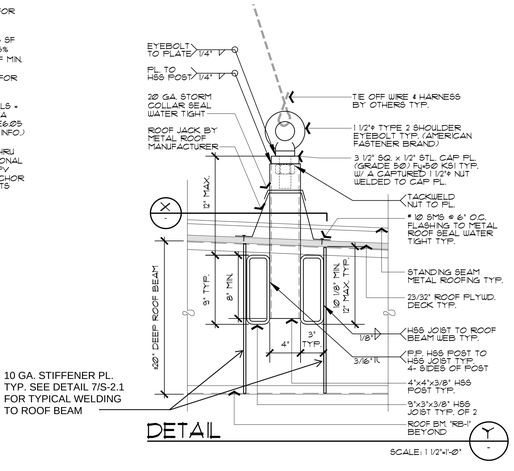
AREA REQUIRED FOR SOLAR PANELS:

ROOF AREA: 4,836 SF
x 15%
= 725.4 SF MIN.

AREA PROVIDED FOR SOLAR PANELS:

45- 44"x68.1" PANELS = 836.38 SQ. FT. AREA (SEE SHTS. E1.01 & E6.25 FOR ADDITIONAL INFO.)

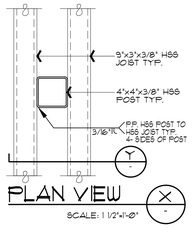
SEE SHTS. PVS-1 THRU PVS-3 FOR ADDITIONAL INFORMATION ON PV SUPPORT AND ANCHOR MEMBER CUTSHEETS



10 GA. STIFFENER PL. TYP. SEE DETAIL 7/S-2.1 FOR TYPICAL WELDING TO ROOF BEAM

DETAIL

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



PLAN VIEW

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

PROJECT NORTH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY

1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. MAKRIRI
No. 3545
MRH STRUCTURAL
STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

REVISIONS:

07-23-25	DSA CORRECTIONS

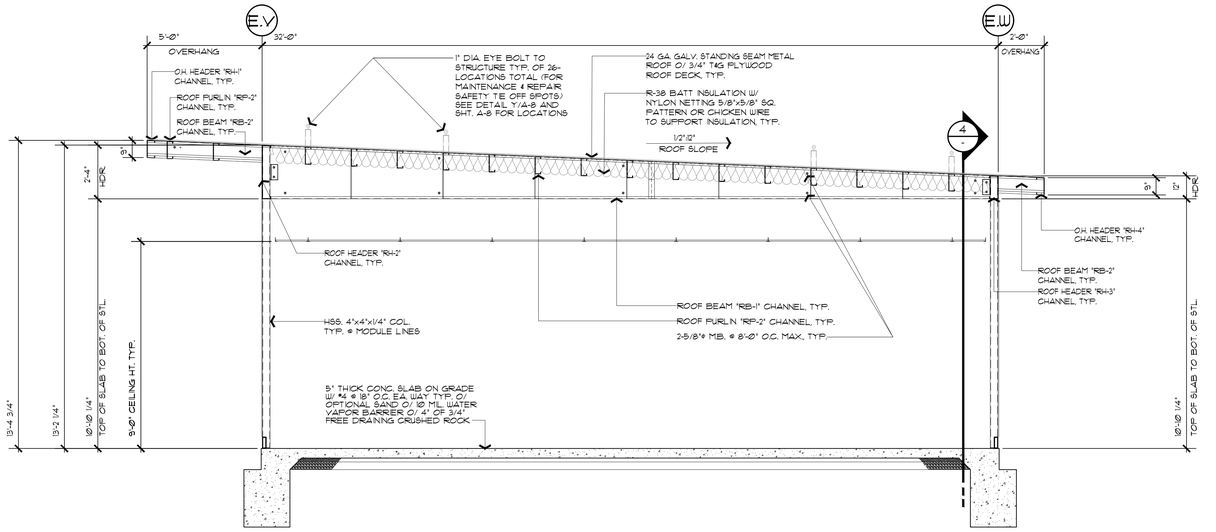
DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE

ROOF PLAN

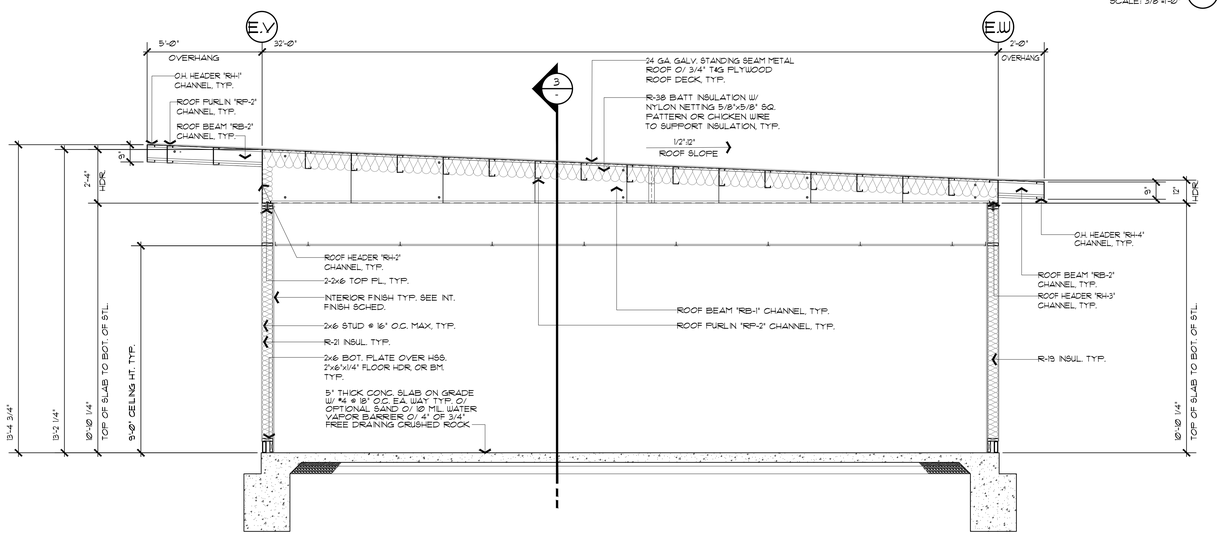
SHEET NO.

A-8



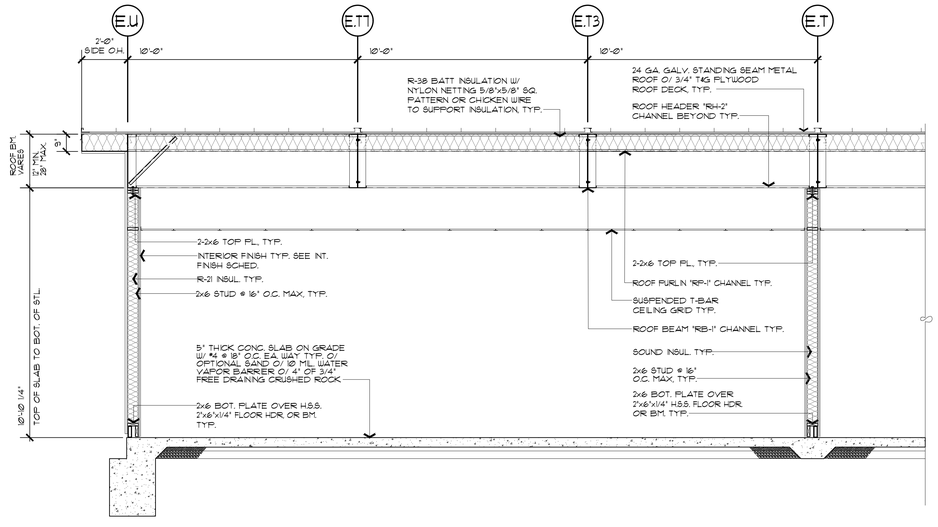
ARCHITECTURAL CROSS-SECTION AT BLD'G COLUMNS

SCALE: 3/8"=1'-0" (1)



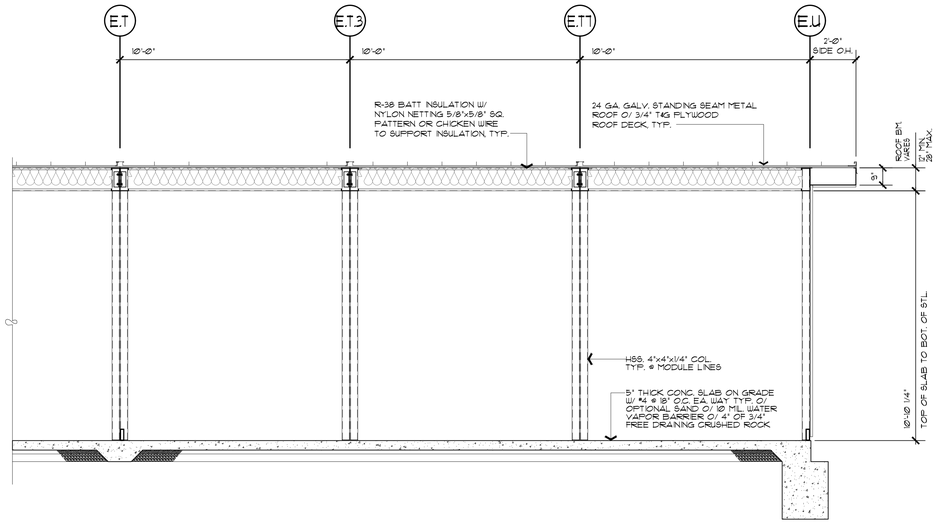
ARCHITECTURAL CROSS-SECTION AT BLD'G. WALL

SCALE: 3/8"=1'-0" (2)



ARCHITECTURAL CROSS-SECTION AT BLD'G. WALLS

SCALE: 3/8"=1'-0" (3)



ARCHITECTURAL CROSS-SECTION AT BLD'G. COLUMNS

SCALE: 3/8"=1'-0" (4)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Architect, Meehleis Modular Buildings, Inc., and are not to be reproduced, changed or copied in any form or manner whatsoever without the expressed written permission of the Architect, Meehleis Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HARIRI
No. 3545
MRH
STRUCTURAL
STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

DRAWN:	BLB
CHECKED:	MM

REVISIONS:

07-23-25	DSA CORRECTIONS

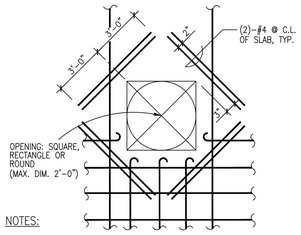
DATE	JULY 23, 2025
JOB NO.	25775

SHEET TITLE

ARCHITECTURAL CROSS-SECTION

SHEET NO.

A-9

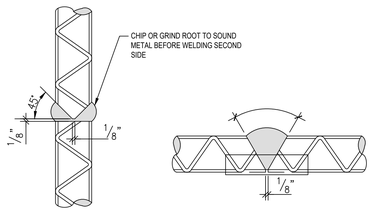


NOTES:

1. ALL TOP AND BOTTOM SLAB REINFORCING INTERRUPTED BY OPENING SHALL BE REPLACED BY ADDITIONAL REINFORCING EQUAL TO THAT INTERRUPTED.
2. PLACE HALF OF THE ADDITIONAL REINFORCING ON EACH SIDE OF OPENING AND EXTEND SAME LENGTH AS REQUIRED FOR BARS LAP OF INTERRUPTED REINFORCING.

TYP. SLAB-ON-GRADE REINF. AT OPENING 13

Scale: N.T.S.



DOUBLE BEVEL GROOVE WELD

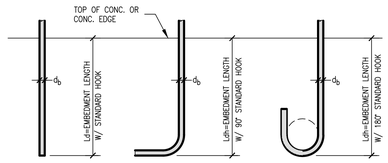
SINGLE V-GROOVE WELD WITH SPLIT PIPE BACKING

NOTES:

1. A PRE-QUALIFICATION TEST SHALL BE MADE BY AN APPROVED TESTING LABORATORY ON SAMPLES OF EACH SIZE BAR BEING WELDED AND SUBMITTED TO STRUCTURAL ENGINEER OF RECORD.
2. WELDING SHALL BE WITH LOW HYDROGEN ELECTRODES E90XX AND SHALL CONFORM TO AWS-D1.4.
3. ALL WELDING SHALL BE SUBJECT TO CONTINUOUS INSPECTION.
4. REINFORCING BARS TO BE WELDED SHALL MEET THE REQUIREMENT OF ASTM A706.

TYPICAL REINFORCING BAR WELDED SPLICE 10

Scale: N.T.S.



BAR SCHEDULE (GRADE 60)

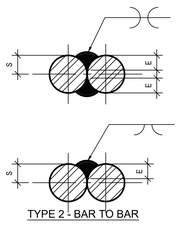
BAR SIZE, d_b	f'_c=3,000 PSI (NORMAL WEIGHT CON.) DEVELOPMENT LENGTH (MIN) L_d (WITHOUT HOOK)	L_{dh} (WITH HOOK)
#3	22"	6"
#4	29"	6"
#5	36"	8"
#6	43"	11"
#7	63"	13"
#8	72"	16"
#9	81"	20"
#10	91"	23"

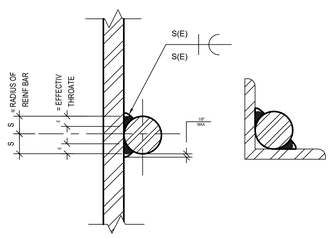
NOTES:

1. CLEAR SPACING OF ALL REBARS SHALL BE AT LEAST $2d_b$.
2. CLEAR COVER SHALL BE AT LEAST $2d_b$.

TYP. REINFORCEMENT DEVELOPMENT 7

Scale: N.T.S.





NOTE:

1. TYPE 1: EFFECTIVE THROAT, E=0.40 S
   USE LOW HYDROGEN E 70XX ELECTRODES
2. TYPE 2: EFFECTIVE THROAT, E=0.60 S
   USE LOW HYDROGEN E 80XX ELECTRODES
3. TYPE 3: USE LOW HYDROGEN E 70XX ELECTRODES
4. TYPE 4: USE LOW HYDROGEN E 70XX ELECTRODES
5. USE A706-60 REBAR

SCHEDULE

BAR	MIN WELD SIZES AND LENGTH SIZE OF WELD		LENGTH OF WELD "L"	
	TYPE 1	TYPE 2	WELD ONE SIDES	WELD TWO SIDES
#3	1/8	1/8	4"	3"
#4	1/8	3/16	5"	3"
#5	3/16	3/16	7"	4"
#6	1/4	1/4	8"	5"
#7	1/4	5/16	10"	6"
#8	1/4	5/16	11"	6"
#9	1/4	3/8	12"	7"
#10	1/4	3/8	12"	7"

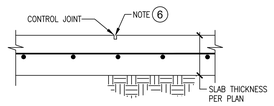
WELDING SIZE AND LENGTHS 15

Scale: N.T.S.

6. CONTROL JOINT

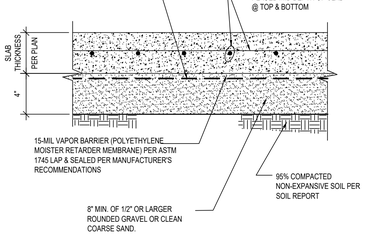
PROVIDE CONTROL JOINTS TO LIMIT MAXIMUM SLAB AREA TO 256 SF. WITH A MAXIMUM OF 16'-0" IN ONE DIMENSION. CONTROL JOINTS SHALL BE PLACED PERPENDICULAR TO CONSTRUCTION JOINTS.

1 1/2" SAW CUT FILLED WITH A CEMENT GROUT. SAW CUT WITH A DIAMOND, WET BLADE. SAW CUTS TO BE MADE WITHIN



7. DO NOT PLACE CONCRETE WHEN THE TEMPERATURE EXCEEDS 90°F OR 80°F WHEN THE WIND EXCEEDS 12 MPH.

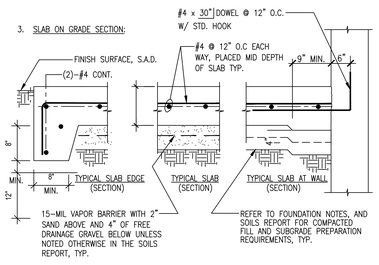
8. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION CONTINUOUSLY FOR THE FIRST 10 DAYS.



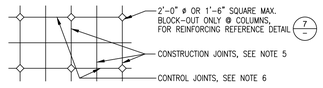
TYPICAL SLAB-ON-GRADE 9

Scale: N.T.S.

1. CONCRETE STRENGTH AT 28 DAYS SHALL BE: REFER TO SHEET S-0.1.
2. WAIT 7 DAYS BEFORE OPERATING VEHICLES AND EQUIPMENT ON SLABS. CRANE OUTRIGGER SHALL BE WELL PLANKED TO DISTRIBUTE THE LOAD.
3. SLAB ON GRADE SECTION:

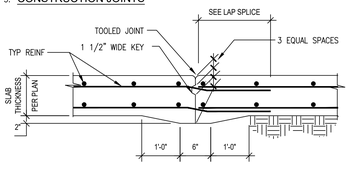


4. POUR SLAB IN STRIPS 16'-0" WIDE OR LESS. CONTRACTOR SHALL SUBMIT CONSTRUCTION JOINT LAYOUT DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL.



SLAB POUR SEQUENCE- PLAN

5. CONSTRUCTION JOINTS



TYPICAL REINFORCEMENT DETAILS 6

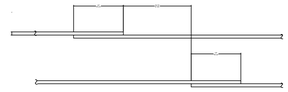
Scale: N.T.S.

LAP SPLICE SCHEDULE FOR NORMAL WEIGHT CONCRETE AND REINFORCING STEEL WITH FY=60 KSI

BAR	AREA (in^2)	0.11		0.20		0.31		0.44		0.60		0.79		1.00		1.27		1.56	
	DIAMETER d_b (in)	0.375		0.500		0.625		0.750		0.875		1.000		1.128		1.270		1.410	
SPACING AND COVER	NORMAL WEIGHT CONC. f'_c (psi)	#3		#4		#5		#6		#7		#8		#9		#10		#11	
		TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	TOP	BOTT.
COVER ≥ $2d_b$ AND CLEAR SPACING ≥ $4d_b$	3,000	28	24	38	29	47	36	56	43	82	63	93	72	105	81	118	91	131	101
OTHER CASES	3,000					70	54	84	65	122	94	139	107	157	121	177	136	196	151

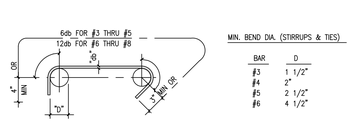
NOTES:

1. ALL VALUES SHOWN IN THE SCHEDULE ARE IN INCHES, U.N.O.
2. WHERE THE PROJECT DESIGN CONCRETE STRENGTH IS NOT SPECIFICALLY IDENTIFIED IN THE TABLE, UTILIZE THE LAP SPLICE REQUIREMENTS FOR THE NEAREST CONCRETE STRENGTH LISTED IN THE TABLE LOWER THAN THE SPECIFIED DESIGN CONCRETE STRENGTH.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
4. BOTTOM BARS ARE ALL VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE CAST BELOW HORIZONTAL BARS.
5. FOR LIGHTWEIGHT CONCRETE MULTIPLY THE LENGTHS IN THE SCHEDULE BY 1.3.
6. ALL LAP SPLICES SHALL BE STAGGERED AS SHOWN IN DETAIL A.

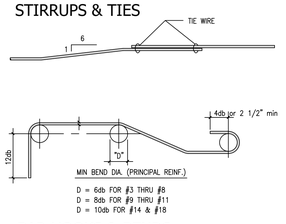


TYPICAL REINFORCING LAP SPLICE SCHEDULE 2

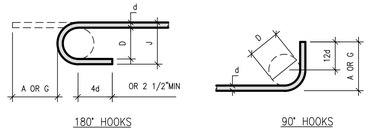
Scale: N.T.S.



STIRRUPS & TIES



BAR HOOKS & BENDS



END HOOKS, ALL GRADES

BAR SIZE "d"	FINISHED BEND DIAMETER "D"	180° HOOKS "A" OR "G"	180° HOOKS J	90° HOOKS "A" OR "G"
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	1'-0"
#7	5 1/4"	10"	7"	1'-2"
#8	6"	11"	8"	1'-4"
#9	9 1/2"	1'-6"	12"	1'-7"
#10	10 3/4"	1'-8"	14"	1'-10"
#11	12"	2'-0"	16"	2'-0"

'd'= NOMINAL DIAMETR OF BAR.

TYP. STANDARD REBAR HOOKS 3

Scale: N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

(DAVIS)

These documents are the property of the Architect, Modular Buildings, Inc., and are not to be reproduced, changed or copied in any form, or for any purpose whatsoever, without the expressed written permission of the Architect. Distribution.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. HARIRI No. 3545 STRUCTURAL STATE OF CALIFORNIA
SIGNED 12-15-2025
MRH Structural Engineers
5400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM
REVISIONS:

07-23-25	DSA CORRECTIONS

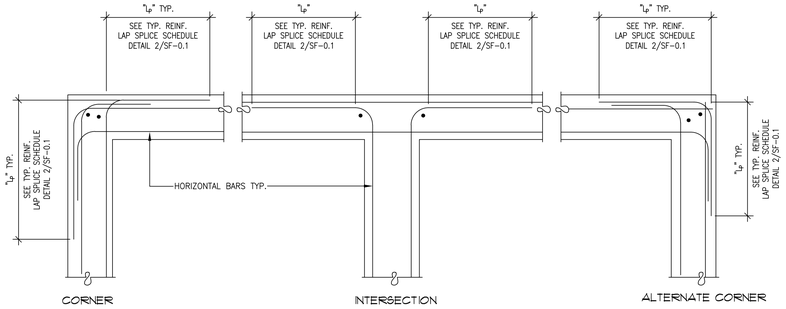
DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE

FOUNDATION DETAILS

SHEET NO.

SF-0.1



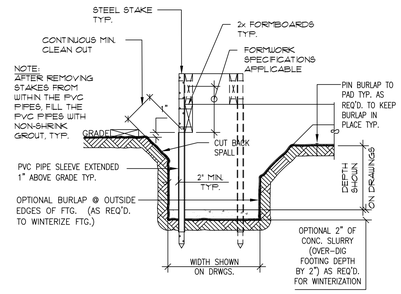
NOTE:

INSIDE REINFORCING HOOKS SHALL EXTEND TO THE FAR SIDE OF THE CONCRETE FOOTING / STEMWALL TYP.

TYP. DOUBLE LAYER REINFORCING

Scale: N.T.S.

4



NOTES:

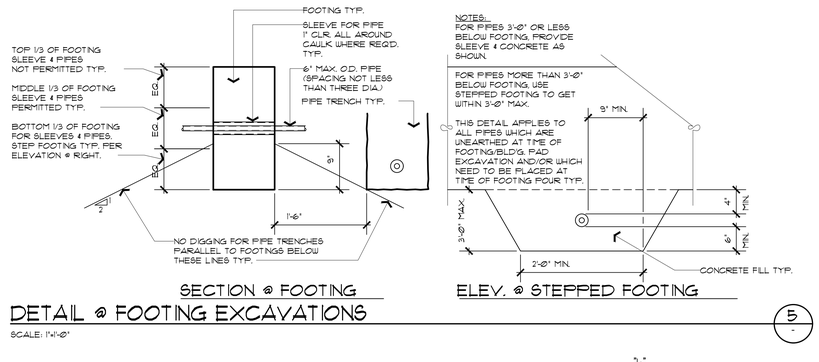
FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED USE STAKE PULLER TO REMOVE STEEL STAKES. DO NOT BANG TO LOOSEN.

"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEERS) SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN IN THIS DETAIL IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

TYP. FORMWORK DETAIL

Scale: N.T.S.

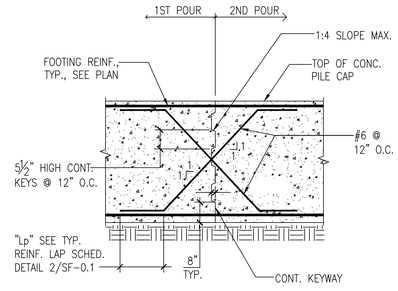
1



DETAIL @ FOOTING EXCAVATIONS

SCALE: 1"=1'-0"

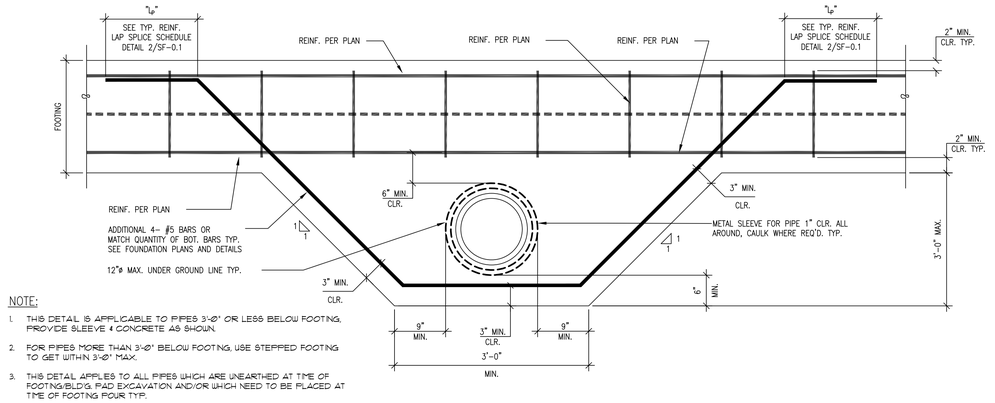
5



TYP. CONT. FOOTING CONSTRUCTION JOINT

Scale: N.T.S.

2



NOTE:

1. THIS DETAIL IS APPLICABLE TO PIPES 3'-0" OR LESS BELOW FOOTING, PROVIDE SLEEVE 4 CONCRETE AS SHOWN.
2. FOR PIPES MORE THAN 3'-0" BELOW FOOTING, USE STEPPED FOOTING TO GET WITHIN 3'-0" MAX.
3. THIS DETAIL APPLIES TO ALL PIPES WHICH ARE UNEARTHED AT TIME OF FOOTING/BLDG. PAD EXCAVATION AND/OR WHICH NEED TO BE PLACED AT TIME OF FOOTING POUR TYP.

TYP. ELEVATION @ PIPE SLEEVE FOOTING

Scale: N.T.S.

6

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Architect. Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Architect. ©Architect

MEEHLEIS MODULAR BUILDINGS, INC. A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. MAHRI No. 3545 MRH STRUCTURAL STATE OF CALIFORNIA
SIGNED 08-28-2025

MRH Structural Engineers
5400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE

FOUNDATION DETAILS

SHEET NO.

SF-0.2

WELD PLATE LEGEND: (SINGLE WELD PLATE AT MODULE LINES)

- Ø 4"x7"x11"x1/2" THICK STL EMBED. (WELD ANGLE) @ BLDG. CORNERS SEE DETAIL Ø/SF-22 FOR WELDING INFO.)
- 1 4"x7"x11"x1/2" THICK STL EMBED. (WELD ANGLE) @ INT. CORNERS SEE DETAIL 1/SF-22 FOR WELDING INFO.)
- 2 4"x7"x11"x1/2" THICK STL EMBED. (WELD ANGLE) SEE DETAIL 2/SF-22 FOR WELDING INFO.)
- 6 3"x3"x1/4"x6" LONG STL EMBED (STEEL ANGLE) @ EXT. BLDG. FLOOR HDRS/BMS. AT DOOR OPENING SEE DETAIL 6/SF-22 FOR WELDING INFO.) - NON-SHEAR PANELS
- 8 6"x8"x1/2" THICK STL EMBED (INT. WELD PL.) @ FLR. BMS. (SEE DETAILS 8/SF-22 FOR WELDING INFO.) - NON-SHEAR PANELS
- Ø 6"x8"x1/2" THICK STL. EMBED. (INT. WELD PL.) @ FLR. BM. (SHEAR TRANSFER PLATE SEE DETAIL Ø/SF-22 FOR WELDING INFO.)
- 14 4"x6"x8" LONG x 1/2" THICK STL EMBED. (WELD ANGLE) @ FLR. BM. (SHEAR TRANSFER PLATE SEE DETAIL 14/SF-22 FOR WELDING INFO.)
- 15 4"x7"x11" LONG x 1/2" THICK STL EMBED. (WELD ANGLE) @ FLR. HDR. (SHEAR TRANSFER PLATE SEE DETAIL 15/SF-23 FOR WELDING INFO.)

SHEAR WALL SCHEDULE

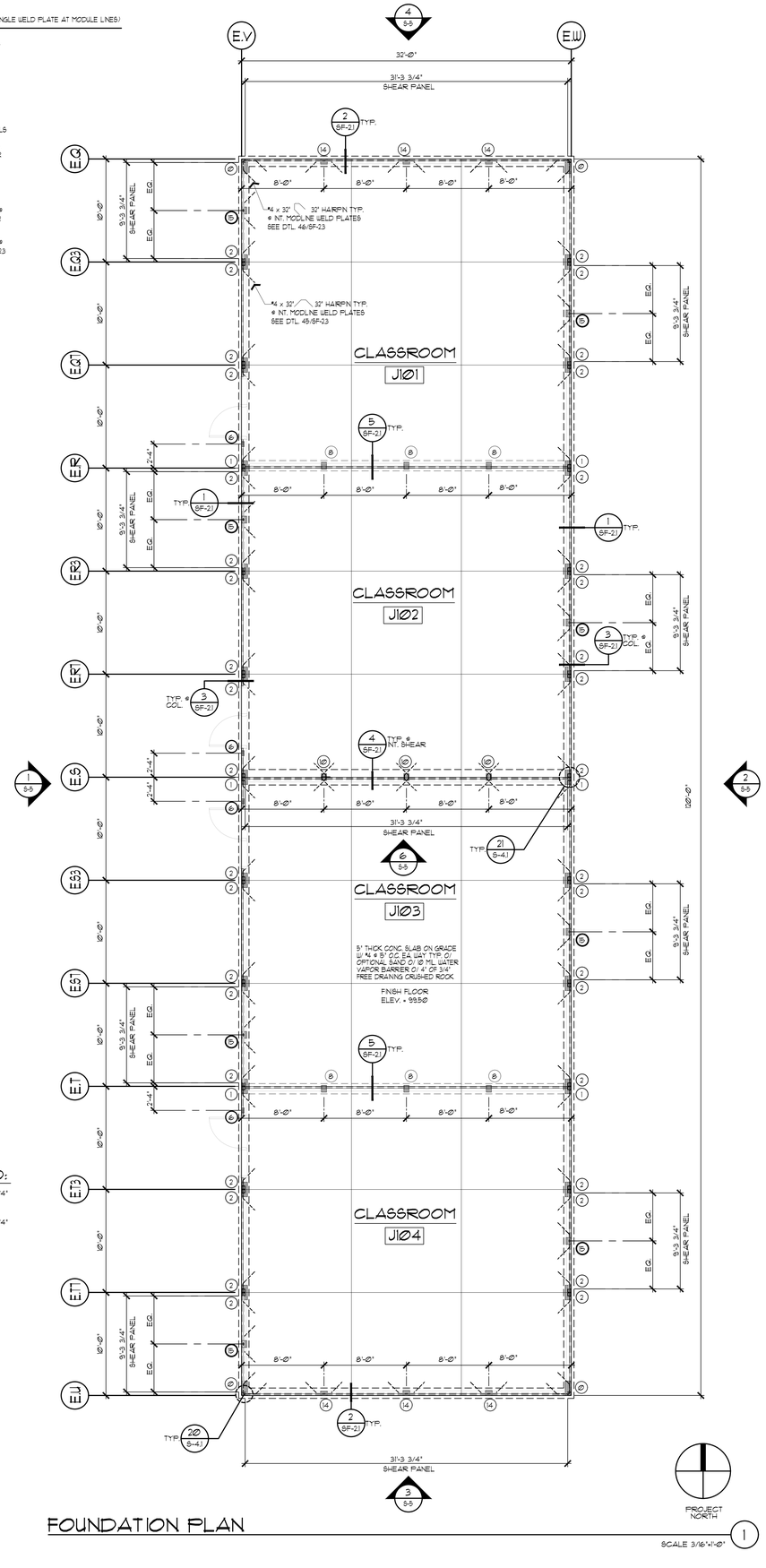
LOCATION	PLYWOOD	E.N.	F.N.	TOP PL. ANCHORAGE	SILL PL. ANCHORAGE	HOLDOWN ANCHORAGE	NOTES
ENDWALLS ON GRIDLINE E.V	15/32" STRUCT. I PLYWOOD PLYWOOD ONE FACE OF WALL	Ø8d COMMON @ 6" O.C.	Ø8d COMMON @ 12" O.C.	1/2" Ø M.B. @ 32" O.C. MAX.	1/4"-28 SCREWS @ 8' O.C. MAX.	USE HSS STEEL POST EA. END OF SHEAR PANEL AS HOLDOWN TYP. W/ 1/4"-28 x 3" LONG SCREWS @ 8" O.C. 2x JAMB STUD TO COLUMN	-
ENDWALLS ON GRIDLINE E.W	15/32" STRUCT. I PLYWOOD PLYWOOD ONE FACE OF WALL	Ø8d COMMON @ 6" O.C.	Ø8d COMMON @ 12" O.C.	1/2" Ø M.B. @ 32" O.C. MAX.	1/4"-28 SCREWS @ 8' O.C. MAX.	USE HSS STEEL POST EA. END OF SHEAR PANEL AS HOLDOWN TYP. W/ 1/4"-28 x 3" LONG SCREWS @ 8" O.C. 2x JAMB STUD TO COLUMN	-
SIDEWALL ON GRIDLINE E.Q	15/32" STRUCT. I PLYWOOD PLYWOOD ONE FACE OF WALL	Ø8d COMMON @ 6" O.C.	Ø8d COMMON @ 12" O.C.	1/2" Ø M.B. @ 32" O.C. MAX.	1/4"-28 SCREWS @ 8' O.C. MAX.	USE HSS STEEL POST EA. END OF SHEAR PANEL AS HOLDOWN TYP. W/ 1/4"-28 x 3" LONG SCREWS @ 8" O.C. 2x JAMB STUD TO COLUMN	-
INT. WALL ON GRIDLINE E.S	15/32" STRUCT. I PLYWOOD PLYWOOD ONE FACE OF WALL	Ø8d COMMON @ 6" O.C.	Ø8d COMMON @ 12" O.C.	1/2" Ø M.B. @ 32" O.C. MAX.	1/4"-28 SCREWS @ 8' O.C. MAX.	USE HSS STEEL POST EA. END OF SHEAR PANEL AS HOLDOWN TYP. W/ 1/4"-28 x 3" LONG SCREWS @ 8" O.C. 2x JAMB STUD TO COLUMN	-
SIDEWALL ON GRIDLINE E.U	15/32" STRUCT. I PLYWOOD PLYWOOD ONE FACE OF WALL	Ø8d COMMON @ 6" O.C.	Ø8d COMMON @ 12" O.C.	1/2" Ø M.B. @ 32" O.C. MAX.	1/4"-28 SCREWS @ 8' O.C. MAX.	USE HSS STEEL POST EA. END OF SHEAR PANEL AS HOLDOWN TYP. W/ 1/4"-28 x 3" LONG SCREWS @ 8" O.C. 2x JAMB STUD TO COLUMN	-

TYP. SHEARWALL NOTES:

1. ALL PLYWOOD EDGES TO BE BLOCKED, FLAT BLOCKING RECEIVING Ø8d NAILS SHALL BE 3"x4" NOMINAL OR LARGER, SEE WALL FRAMING ELEVATIONS FOR SIZE.
2. ALL NAILS TO BE COMMON NAILS, OR EQUAL U.O.N.
3. STAGGER ALL SHEAR PLYWOOD IF NOT FULL HEIGHT SHEETS CONT. SILL PLATE TO TOP PLATE. (MIN. PLYWOOD DIMENSION SHALL NOT BE LESS THAN 12" FOR SHEAR PLYWOOD TYP.)
4. FACE NAIL DOUBLE 2x STUDS TOGETHER (@ SHEARWALL PLYWOOD JOINTS) W/ 16d COMMON TYP. @ E.N. SPACING OF THAT PARTICULAR SHEAR WALL.
5. Ø8d COMMON = Ø.148" SHANK DIAMETER TYP.
6. SHEAR PANEL E.N. TO HSS MEMBERS (AS AN ALTERNATE TO E.N. @ WOOD MEMBER) SHALL BE W/ HILTI X-U 57P8 (Ø.57"X1 1/4" LONG).
7. USE MIN. HSS. 4"x4"x1/4" COL/HOLDOWN
8. PROVIDE MATCHING PLYWOOD THICKNESS (W/ 8d @ 6" OC. E.N. & 12" OC. F.N.) TYP. WHERE NO SHEAR PANEL OCCURS TO PROVIDE A UNIFORM EXT. FINISH.
9. 1/4" TEK SCREWS SHALL BE BUILDEX TEKS SELF-DRILLING FASTENERS (1/4"-28" x 3" LONG HEX WASHER HEAD) TYP. PER ICC REPORT NO. ESR-1976 DATED JULY 2025 (SEE SHEET S-4 FOR ADDITIONAL NFO.)

NOTE:

1/4" TEK SCREWS SHALL BE ITW BUILDEX TEKS SELF-DRILLING FASTENERS (1/4"-28 x 3" LONG HEX WASHER HEAD) TYP. PER ICC REPORT NO. ESR-1976 DATED JULY 2025.



FOUNDATION PLAN LEGEND:

- 2x WALL FRAMING OVER HSS, 2"x6"x1/4" FLOOR BEAM OR HEADER
- 2x WALL FRAMING OVER HSS, 2"x6"x1/4" FOUNDATION WELD PL. OR ANGLE HORIZONTAL HAIR-PIN

SHEET NOTES:

1. SEE FLOOR PLANS FOR INT. WALL LAYOUT DIMENSIONS TYP.
2. FOR FLOOR BEAM SPLICE (WHERE REQUIRED) SEE DETAIL 39/S-22
3. PROVDE CONTROL JOINTS (SAWCUT, ZIP STRIP, OR CONSTRUCTION JOINT) @ MODLINES AND/OR @ 10'-Ø" O.C. MAX. TYP. SEE DETAIL 9/SF-Ø1
5. SEE SHEET S-Ø1 FOR TYP. SOIL FOUNDATION & CONCRETE NOTES
5. SEE SHEET SF-Ø2 FOR REBAR BENDING DETAILS
6. SEE SHEET SF-23 FOR TYP. PLAN VIEWS AT WELD PLATES.

FOUNDATION PLAN

SCALE 3/16"=1'-Ø"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT (DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Modular Buildingsman.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. MAHIRI No. 3545 STRUCTURAL STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

REVISIONS:

07-23-25	DSA CORRECTIONS

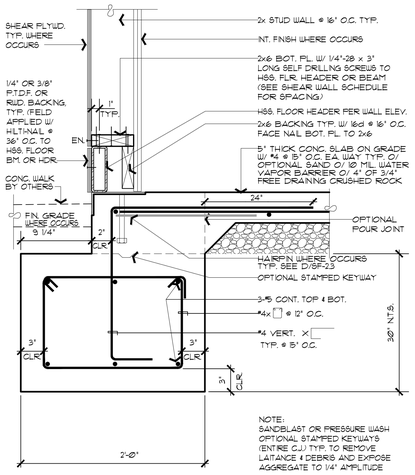
DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE

FOUNDATION PLAN

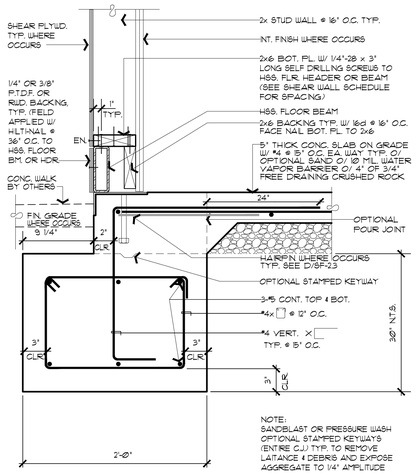
SHEET NO.

SF-1



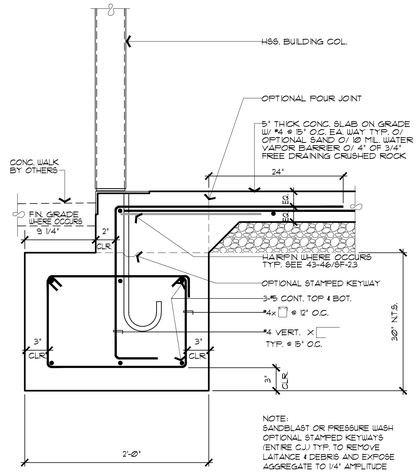
TYPICAL EXT. FOOTING @ END WALL (1)

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



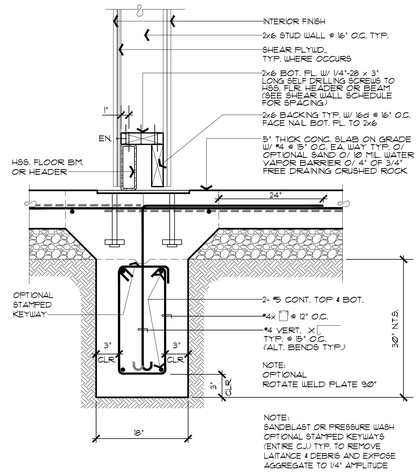
TYPICAL EXT. FOOTING @ SIDE WALL (2)

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



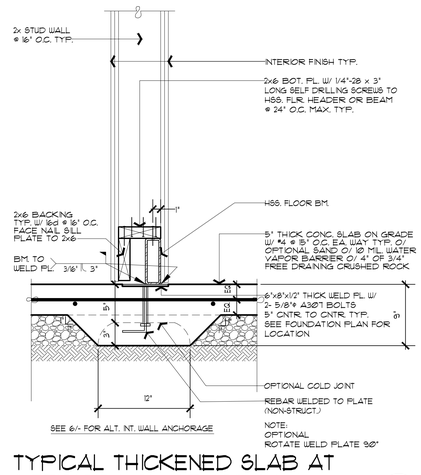
TYPICAL EXT. FOOTING AT END WALL COL. (3)

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



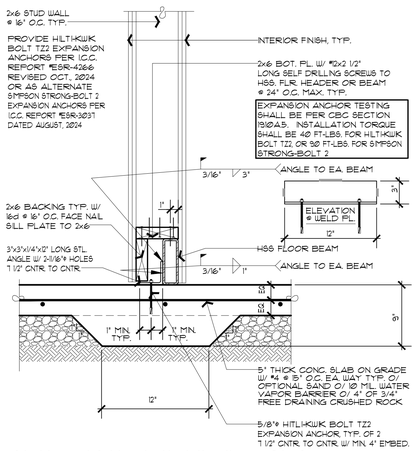
TYP. FOOTING AT INT. BEARING SHEAR WALL (4)

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



TYPICAL THICKENED SLAB AT INTERIOR NON-BEARING WALL (5)

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



ALTERNATE THICKENED SLAB @ INTERIOR NON-BEARING WALL (6)

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT (DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Meehleis Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Meehleis Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY

1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. MARTIN
No. 3545
MRH STRUCTURAL
STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN:	BLB
CHECKED:	MM

REVISIONS:

07-23-25	DSA CORRECTIONS

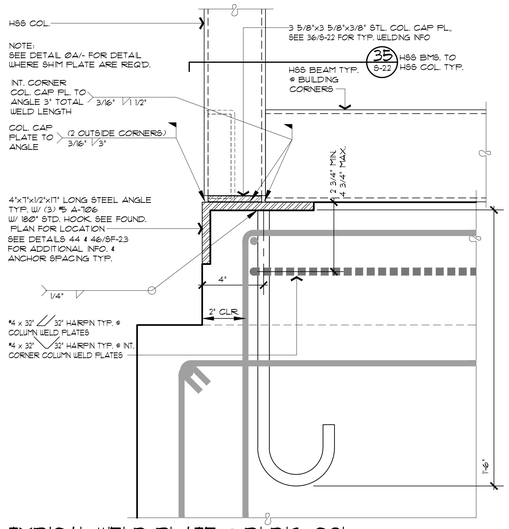
DATE	JULY 23, 2025
JOB NO.	25775

SHEET TITLE

FOUNDATION DETAILS

SHEET NO.

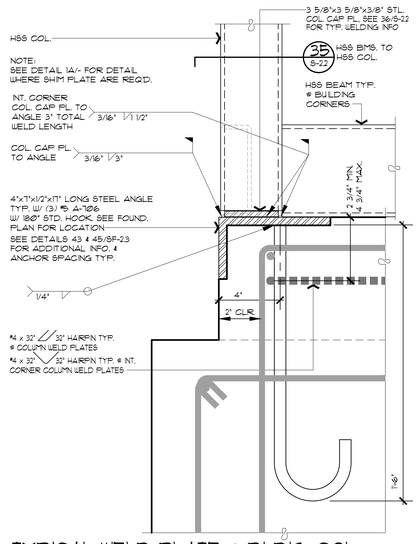
SF-2.1



TYPICAL WELD PLATE @ BLD'G. COL. AT EXT. BLD'G. CORNERS

Ø

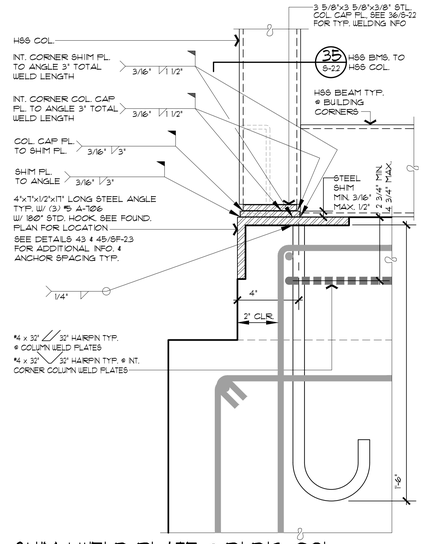
SCALE: 3"=1'-0"



TYPICAL WELD PLATE @ BLD'G. COL. AT INT. BLD'G. CORNERS

1

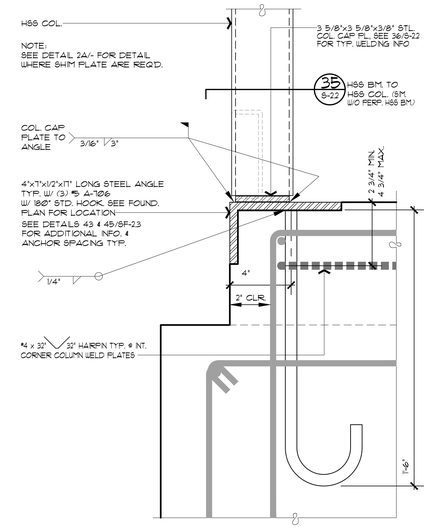
SCALE: 3"=1'-0"



SHIM & WELD PLATE @ BLD'G. COL. AT INT. BLD'G. CORNERS

1A

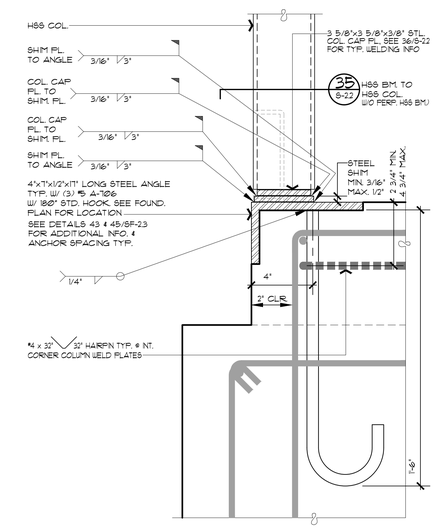
SCALE: 3"=1'-0"



TYPICAL WELD PLATE @ BLD'G. COL.

2

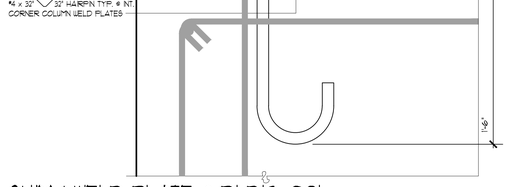
SCALE: 3"=1'-0"



SHIM & WELD PLATE @ BLD'G. COL.

2A

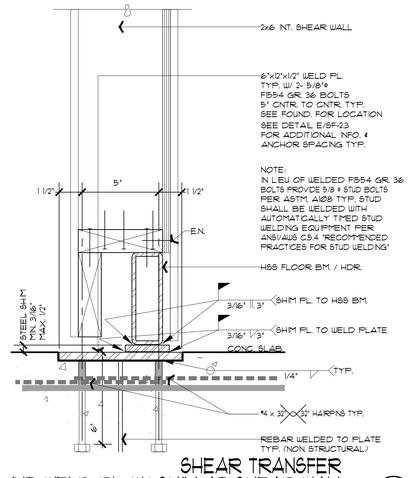
SCALE: 3"=1'-0"



SHIM & WELD PLATE @ BLD'G. COL. AT EXT. BLD'G. CORNERS

ØA

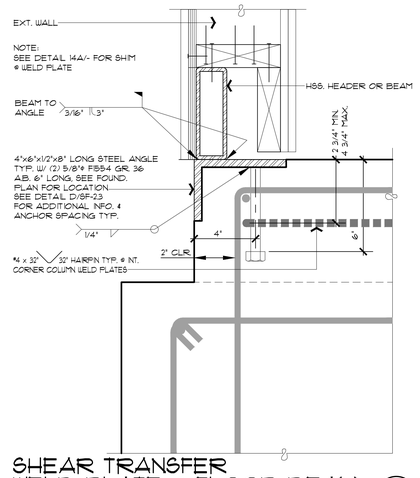
SCALE: 3"=1'-0"



AT NON-SHEAR PANELS TYPICAL WELD PLATE NEAR EXT. DOOR

6

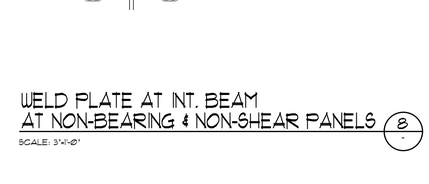
SCALE: 3"=1'-0"



AT NON-SHEAR PANELS SHIM & WELD PLATE NEAR EXT. DOOR

6A

SCALE: 3"=1'-0"



WELD PLATE AT INT. BEAM AT NON-BEARING & NON-SHEAR PANELS

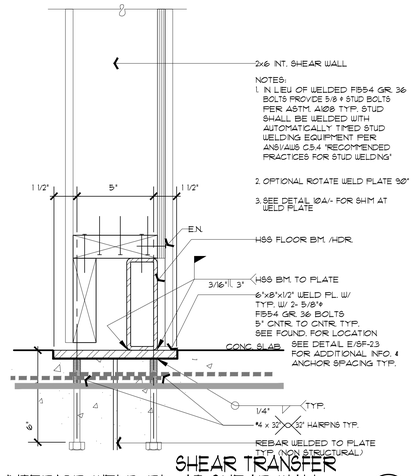
8

SCALE: 3"=1'-0"

SHIM & WELD PLATE AT BEAM AT NON-BEARING & NON-SHEAR PANELS

8A

SCALE: 3"=1'-0"



SHEAR TRANSFER INTERIOR WELD PL. AT SHEAR WALL

10

SCALE: 3"=1'-0"

SHEAR TRANSFER INT. WELD PL. W/ SHIM AT SHEAR WALL

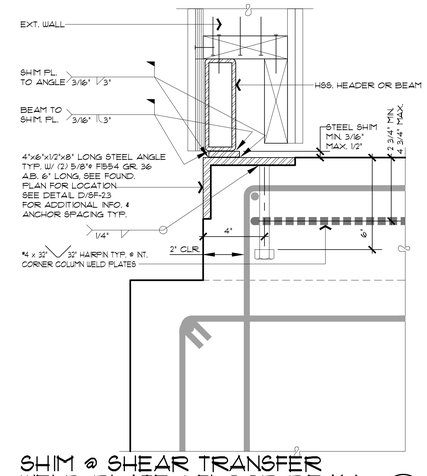
10A

SCALE: 3"=1'-0"

SHEAR TRANSFER WELD PLATE @ FLOOR BEAM

14

SCALE: 3"=1'-0"



SHIM @ SHEAR TRANSFER WELD PLATE @ FLOOR BEAM

14A

SCALE: 3"=1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT (DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER



SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN:	BLB
CHECKED:	MM

REVISIONS:

07-23-25	DSA CORRECTIONS

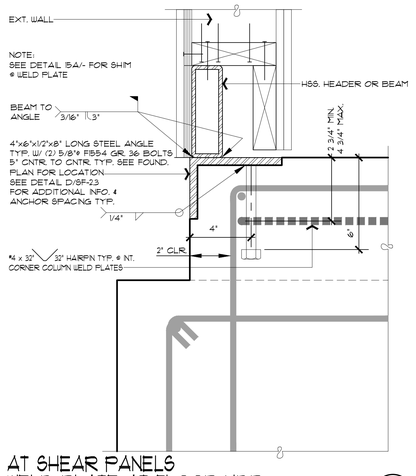
DATE	JULY 23, 2025
JOB NO.	25775

SHEET TITLE

FOUNDATION DETAILS

SHEET NO.

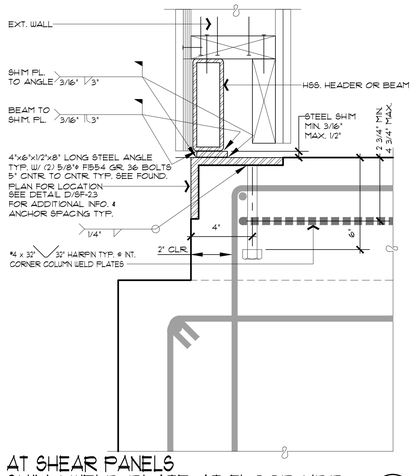
SF-2.2



AT SHEAR PANELS
WELD PLATE AT FLOOR HDR.

15 -

SCALE: 3"=1'-0"

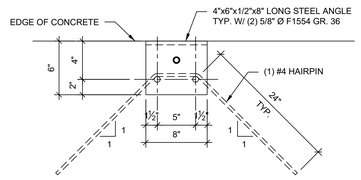


AT SHEAR PANELS
SHIM & WELD PLATE AT FLOOR HDR.

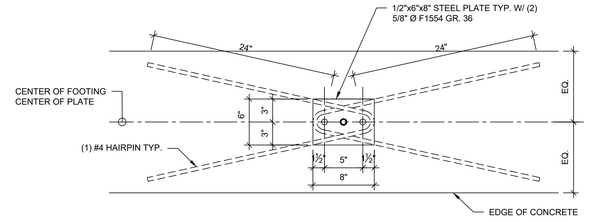
15A -

SCALE: 3"=1'-0"

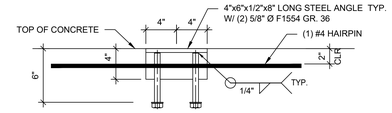
SHEAR TRANSFER DETAILS



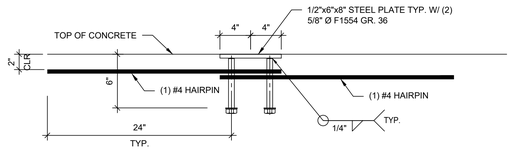
PLAN VIEW



PLAN VIEW



ELEVATION



ELEVATION

SHEAR TRANSFER EMBEDDED ANGLE "D"

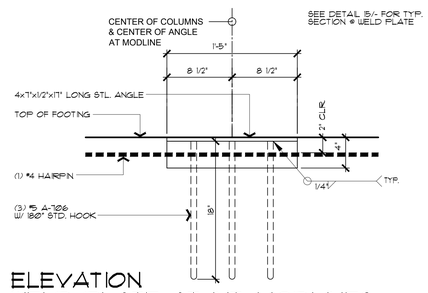
NOT TO SCALE

D -

SHEAR TRANSFER EMBEDDED PLATE "E"

NOT TO SCALE

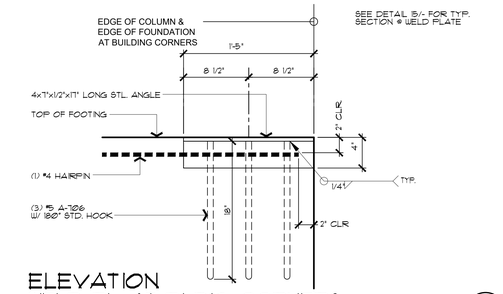
E -



ELEVATION
WELD PLATE AT INT. MODLINES

43 -

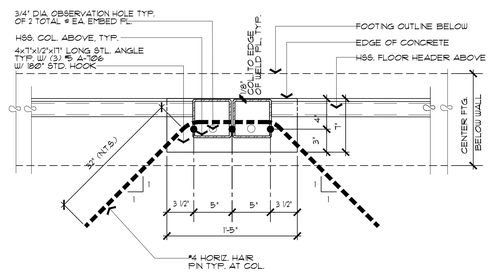
SCALE: 1-1/2"=1'-0"



ELEVATION
WELD PL. AT BLD'G. CORNERS

44 -

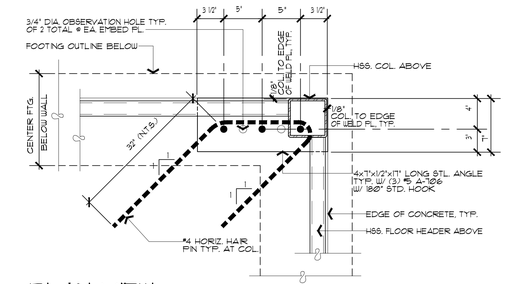
SCALE: 1-1/2"=1'-0"



PLAN VIEW
WELD PLATE AT INT. MODLINES

45 -

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



PLAN VIEW
WELD PL. AT BLD'G. CORNERS

46 -

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

HOLDOWN DETAILS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever nor are they to be assigned to any third party, without first obtaining the written permission of the Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. HAIRI
No. 3545
MRH STRUCTURAL
STATE OF CALIFORNIA

SIGNED 07-28-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE

FOUNDATION DETAILS

SHEET NO.

SF-2.3

WELDING NOTES

1. ALL STRUCTURAL WELDING SHALL BE IN CONFORMANCE WITH THE ANSI/AWS D1.1–15 STRUCTURAL WELDING CODE–STEEL AND Chapter 22A OF THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE USING ELECTRODES WITH A MINIMUM TENSILE STRENGTH OF 70 KSI.
   A. THE FOLLOWING PROCESSES ARE PREQUALIFIED FOR USE ON STRUCTURAL STEEL: SMAW, GMAW (GMAW–S EXCLUDED), FCAW AND SAW. (GMAW AND SAW SHALL BE USED FOR SHOP WELDING ONLY.)
   B. ALL ELECTRODES USED FOR STRUCTURAL STEEL WELDING SHALL HAVE A MINIMUM TOUGHNESS VALUE OF 40 FT–LB @ 0° F MEASURED BY THE CHARPY V–NOTCH TEST METHOD IN ACCORDANCE WITH ASTM E23 STANDARD METHOD FOR NOTCHED BAR IMPACT TESTING OF METALLIC MATERIALS.
   C. ALL SMAW ELECTRODES SHALL CONFORM TO THE AWS A5.1–06 OR A5.5–06 LOW–HYDROGEN CLASSIFICATION (EXX15, EXX16, OR EXX18).
2. ALL REINFORCEMENT SHALL BE WELDED IN ACCORDANCE WITH ANSI/AWS D1.4–18 STRUCTURAL WELDING CODE–REINFORCING STEEL. (ONLY THE SMAW PROCESS SHALL BE APPROVED FOR WELDING OF REINFORCING STEEL.)
3. THE MAXIMUM ELECTRODE DIAMETERS, CURRENT, ROOT AND FILL PASS THICKNESS, SINGLE PASS FILLET WELD SIZE AND SINGLE PASS LAYER WIDTH SHALL BE IN CONFORMANCE WITH ANSI/AWS D1.1–15, TABLE 3.7. WELD BEAD WIDTH/DEPTH RATIO SHALL NOT EXCEED ANSI/AWS D1.1–15, 3.7.2, AND FIGURE 3.1.
4. THE CONTRACTOR SHALL DETERMINE THE PREHEAT AND INTERPASS TEMPERATURE (S) IN ACCORDANCE WITH AWS D1.1–15, TABLE 3.3 UNLESS NOTED OTHERWISE BY THE GOVERNING JURISDICTION. MAXIMUM INTERPASS TEMPERATURE SHALL NOT EXCEED 550° F.
5. ALL WELDING IN THE VERTICAL POSITION (3G OR 3F) REGARDLESS OF THE PROCESS, SHALL BE PERFORMED IN THE UPWARD VERTICAL PROGRESSION.
6. WELDING POWER SOURCES FOR SMAW SHALL BE OF THE CONSTANT CURRENT (CC) TYPE.
   A. WELDING POWER SOURCES FOR GMAW OR FCAW SHALL BE OF THE CONSTANT VOLTAGE (CV) TYPE.
   B. WELDING POWER SOURCES FOR THE SAW SHALL BE CV WHEN USING A SINGLE ELECTRODE, AND CC OR CV FOR MULTIPLE ELECTRODE ARRANGEMENTS.
7. THE USE OF STRINGER* BEADS SHALL BE USED IN ALL WELDING OPERATIONS. WEAVING* IS NOT PERMITTED. (*AS DEFINED IN ANSI/AWS A3.0–94)
   A. THE WPS SHALL LIMIT ELECTRODE OSCILLATION TRANSVERSE TO THE WELD AXIS TO 3D FOR THE 1G/1F, 2G/2F, AND 4G/4F POSITIONS MAXIMUM. FOR 3G/3F POSITIONS, TRANSVERSE ELECTRODE OSCILLATION SHALL BE LIMITED TO 5D MAXIMUM (WHERE D = ELECTRODE DIAMETER).
8. WELD JOINTS SHALL BE PREQUALIFIED IN CONFORMANCE WITH ANSI/AWS D1.1–15, SECTION 3. JOINT CONFIGURATIONS OR TOLERANCES THAT EXCEED THOSE IN SECTION 3 THAT ARE NOT PREQUALIFIED, SHALL BE QUALIFIED IN ACCORDANCE WITH ANSI/AWS D1.1–15, SECTION 4.
9. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY A CURRENT DSA APPROVED AND AWS, AISC, AND ICC CERTIFIED FABRICATOR.
10. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS WITH CURRENT CERTIFICATION ACCEPTED BY DSA FOR THE PROCESS AND TYPE OF WELDING PERFORMED (STRUCTURAL OR REINFORCING STEEL AS APPLICABLE).
11. ANY REPAIRS TO BASE METALS SHALL BE PERFORMED WITH LOW–HYDROGEN ELECTRODES WITH A WPS APPROVED BY THE ENGINEER.
   A. ANY BASE METAL REPAIR OR RESTORATION SHALL REQUIRE IMMEDIATE NOTIFICATION OF THE ENGINEER.
12. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION.
13. WORKMANSHIP AND TECHNIQUE USED IN FABRICATION AND FIELD WELDING AND ERECTION SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.1–15, SECTION 5, AND THE AISC MANUAL OF STEEL CONSTRUCTION (AISCE 360–16) 15TH EDITION.
14. ALL CONNECTIONS SHALL HAVE MINIMUM AISC WELD SIZE.
15. ALL STUD WELDING SHALL BE PER AWS D1.1 – 2015.
16. ALL WELDED STUDS AND END–WELDED STUDS SHALL HAVE SPECIAL INSPECTION AND TESTING TABLE 1705A.2.1 OF THE CBC 2022.
17. ALL WELDED STUDS AND END–WELDED STUDS SHALL TESTED PER SECTION 2213A.2 OF THE CBC 2022.

WPS/PQR/WPQR REQUIREMENTS:

18. ALL WELDING PROCEDURES (WPS) USED FOR SHOP AND FIELD WELDING SHALL BE PRE–QUALIFIED IN ACCORDANCE WITH AWS D1.1–15, SECTION 3. WPS'S SHALL DENOTE ALL OF THE APPLICABLE ESSENTIAL AND NON–ESSENTIAL VARIABLES (INCLUDING TOLERANCES) OF TABLE 4.5 OF THE CODE TO ACHIEVE PRE–QUALIFIED STATUS.
19. THE WPS ESSENTIAL AND NON–ESSENTIAL VARIABLES SHALL BE IN CONFORMANCE WITH ANSI/AWS D1.1–15, TABLE 4.5.
   A. THE WPS SHALL DENOTE THE REFERENCING PQR NUMBER.
   B. THE WPS SHALL DENOTE THE MINIMUM AND MAXIMUM VALUES FOR ESSENTIAL VARIABLES AND JOINT TOLERANCES, OR, A MEAN/AVERAGE VALUE WITH THE TOLERANCE.
16. THE WPS SHALL BE AVAILABLE TO THE WELDER, WELDER OPERATOR, OR TACK WELDER AND THE INSPECTOR, AND ALL PERSONNEL SHALL BE THOROUGHLY FAMILIAR WITH ITS USE.
17. PERFORMANCE QUALIFICATION OF WELDING PERSONNEL SHALL BE IN COMPLIANCE WITH ANSI/AWS D1.1–15, SECTION 4.2.2.
18. ALL WELDING, REPAIRS, AND NONDESTRUCTIVE TESTING SHALL BE COMPLETED BEFORE ANY MATERIAL IS GALVANIZED. THE WPS SHALL INCLUDE A COPY OF THE ELECTRODE MANUFACTURER'S DATA SHEET AND CERTIFICATE OF COMPLIANCE.

STRUCTURAL STEEL

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AISC 360–16 AND THE "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" AISC 341–16.
2. STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING MATERIAL SPECIFICATIONS (U.N.O.):
   A. ANGLES – ASTM 36, GRADE 36, Fy=36 KSI
   B. CHANNELS – ASTM 36, GRADE 36, Fy=36 KSI
   C. PLATES – ASTM 572, GRADE 50, Fy=50 KSI
   ~~D. HSS–SHAPES – ASTM A992 OR ASTM A572 GRADE 50, Fy=50 KSI~~
   E. STRUCTURAL TUBES (HSS) – ASTM A500, GRADE B, Fy=46 KSI
   ~~F. STRUCTURAL BOLTS – ASTM A325 FT (FRE TENSIONED) U.N.O.~~
   G. NUTS – ASTM A563 GALV., GRADE DH
   H. WASHERS – ASTM F436, TYPE 1
   I. ANCHOR BOLTS – ASTM F1554, GRADE 55
   J. WELDING ELECTRODES – AWS STRUCTURAL STEEL E70XX, REINFORCING STEEL E90XX
   K. MISCELLANEOUS BOLTS – ASTM A–307
   L. GALVANZING – ASTM A–123
   M. RUSH–INHIBITING PRIMER – TT–P–645 ASTM
3. ALL WELDING SHALL BE PERFORMED BY EXPERIENCED, CERTIFIED WELDERS USING THE ELECTRIC ARC WELDING PROCESS, E70XX SERIES ELECTRODES FOR WELDING STRUCTURAL STEEL. WELDING SHALL CONFORM TO AISC AND AWS STANDARDS.
4. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS. SIZE OF WELD SHALL BE BASED ON AISC STANDARDS FOR THINNER PART JOINED.
5. HOLES FOR BOLTS IN STRUCTURAL STEEL SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES SHALL NOT BE PERMITTED.
6. ALL COPES SHALL BE SAWCUT, UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER IN WRITING.
7. ALL EXTERIOR EXPOSED STRUCTURAL STEEL AND CONNECTORS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123. WHERE THE HOT DIP GALVANIZING IS DAMAGED OR REMOVED DURING CONSTRUCTION, REPAIR WITH AN APPROVED COLD GALVANIZING PAINTING SYSTEM IN ACCORDANCE WITH ASTM A780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
8. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP AND ERECTION DRAWINGS OF ALL STEEL TO STRUCTURAL ENGINEER–OF–RECORD FOR REVIEW PRIOR TO FABRICATION. ALL STEEL FABRICATION SHALL BE PERFORMED IN A SHOP APPROVED BY DSA. CONTRACTOR SHALL NOT FABRICATE, EMBED, INSTALL OR ERECT ANY STRUCTURAL STEEL UNTIL THE SHOP DRAWINGS ARE REVIEWED BY THE STRUCTURAL ENGINEER–OF–RECORD.
9. STRUCTURAL STEEL SHOP AND ERECTION DRAWINGS SHALL CONTAIN ALL INFORMATION NECESSARY TO ERECT ALL STRUCTURAL STEEL IN THE FIELD WITHOUT HAVING TO REFER TO STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL NOT CONTAIN ANY REPRODUCTION OF THE STRUCTURAL DRAWINGS.
10. ALL SUBMITTALS: STRUCTURAL STEEL SHOP DRAWINGS, WELDING PROCEDURE SPECIFICATIONS (WITH CWI STAMP AND SIGNATURE), MATERIAL MILL CERTIFICATES, AND WELDER QUALIFICATIONS.

~~11. WELDS SHALL BE CAPABLE OF PRODUCING THE FOLLOWING V–NOTCH TOUGHNESS AS DETERMINED BY APPROPRIATE AWS AS CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION.~~
~~LATERAL FORCE RESISTING SYSTEM (LFRS) – 20 FT–LB AT 0 DEGREE F~~
~~COMPLETE JOINT PENETRATION GROOVE WELD – 20 FT–LB AT 40 DEGREE F~~
~~SHOP AND FIELD WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.~~

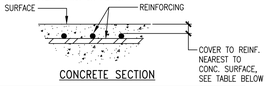
12. WELD INSPECTION:
   A. PERIODIC INSPECTION OF FILLET WELDS LESS THAN OR EQUAL TO 5/16", FLOOR AND ROOF DECK WELDS.
   B. CONTINUOUS INSPECTION FOR OTHER WELDS.
   C. NONDESTRUCTIVE TESTING (NDT):
      ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16" OR THICK OR GREATER. ULTRASONIC TESTING NOT REQUIRED FOR MATERIALS LESS THAN 5/16" THICK. TESTING FREQUENCY MAY BE REDUCED TO 25%, PROVIDED PROVISIONS SET FORTH IN SECTION N5.5e, AISC–360 IS MET.
      MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM–TO–COLUMN CJP GROOVE WELDS. TESTING FREQUENCY MAY BE REDUCED TO 10%, PROVIDED PROVISIONS SET FORTH IN J6.2g, AISC–341 IS MET.

LIGHT GAUGE STEEL

1. LIGHT GAGE STEEL SHALL CONFORM TO THE A.S.T.M. A1011/A GRADE 33, 40, 50 & 55 OR A.S.T.M. A572 GRADE 33, 40, 50 & 55. ELEMENTS SHALL NOT DEVIATE MORE THAN 5% FROM NOMINAL U.S. GAGE (7 GA. – 0.178", 10 GA. – 0.1345", 12 GA. – 0.105", & 14 GA. – 0.075") SEE LIGHT GAUGE STEEL MEMBER SCHEDULE ON SHEET S–1.
2. MATERIAL TEST OF BEAMS, PURLINS, HSS COLUMNS, MISC. ANGLES & PLATES SHALL BE TESTED IN ACCORDANCE WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS, & C.B.C. SECTION 2212A.1, 2022 EDITION.
3. CFS STRUCTURAL MEMBERS SHALL HAVE A PROTECTIVE COATING, PER 2022 CBC, 2203A.2, AND PER AISI S200, TABLE A4–1.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS IN CONFORMANCE WITH ASTM A–615, GRADE 60. AND FOR WELDED REBARS ASTM A–706, GRADE 60, U.N.O.
2. ALL WELDED WIRE FABRIC SHALL BE DEFORMED BARS IN CONFORMANCE WITH ASTM A1064.
3. ALL BARS SHALL BE FREE OF LOOSE FLAKY RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND.
4. ALL BENDS SHALL BE MADE COLD.
5. SPLICING OF BARS SHALL BE IN CONFORMANCE WITH THE SCHEDULE SHOWN ON THE DRAWINGS. ALL REINFORCING STEEL SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE.
6. ALL REINFORCEMENT BENDS AND SPLICES SHALL BE PER DETAIL 6/SF–0.1.
7. ALL REINFORCEMENT LAP SPLICES SHALL BE PER DETAIL 2/SF–0.1.
8. ALL REINFORCING BARS SHALL BE ACCURATELY AND RIGIDLY HELD IN PLACE BEFORE PLACING CONCRETE. REINFORCING SUPPORTS AND SPACERS SHALL BE PROVIDED BY THE CONTRACTOR.
9. MINIMUM REBAR COVER: U.N.O. ON PLANS.



CONCRETE SECTION

DESCRIPTION	MINIMUM COVER	TOLERANCES (+ OR –)
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	1/4"
EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER BARS	1½"	1/4"
#6 AND LARGER BARS	2"	1/4"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: ROOF SLABS	1"	1/8"
STRUCTURAL SLABS AND WALLS	¾"	1/8"
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS)	1½"	1/4"

10. SUBMITTALS: ALL REINFORCING STEEL SHOP DRAWINGS. SHOP DRAWINGS SHALL NOT CONTAIN ANY REPRODUCTION OF THE STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE PLANS AND SHALL ALSO INCLUDE THE FOLLOWING INFORMATION:
   A. LAP SPLICE AND BEND LOCATIONS AS PERMITTED ON THE DRAWINGS.
   B. REINFORCING STEEL MATERIAL AND MILL TEST CERTIFICATIONS.
   C. REINFORCING STEEL LAYOUT SHALL BE COORDINATED WITH ANCHOR BOLT LOCATIONS TO AVOID CONFLICTS.

CAST–IN–PLACE CONCRETE

1. CONCRETE PLACEMENT AND QUALITY SHALL BE DESIGNED IN ACCORDANCE WITH CHAPTER 19A OF THE 2022 CBC, ACI 318–19 AND ACI 336.3.
2. ALL CEMENT SHALL CONFORM TO ASTM C–150, TYPE II/V.
3. FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C–33 FOR NORMAL WEIGHT CONCRETE. PEA GRAVEL IS NOT ACCEPTABLE UNLESS NOTED OTHERWISE.
4. ALL AGGREGATE SHRINKAGE SHALL BE IN ACCORDANCE WITH ASTM C–157 WITH AN AVERAGE DRYING SHRINKAGE AT 28 DAYS NOT EXCEEDING 0.06%.
5. CONCRETE QUALITY:

CONCRETE USE	CONC. STRENGTH f'c AT 28 DAYS	MAXIMUM WATER/ CEMENT	MAX. SLUMP	MAXIMUM AGGRE. SIZE	WEIGHT
FOOTINGS, PAD FOOTINGS SPREAD FOOTINGS, TIE BEAMS AND GRADE BEAMS	3,000 PSI	0.4	4"	3/4"	NORMAL WEIGHT (145 PCF)
CONCRETEE SLAB ON GRADE	3,000 PSI	0.4	4"	3/4"	NORMAL WEIGHT (145 PCF)
ALL OTHER STRUC– TURAL CONCRETE	3,000 PSI	0.45	5"	3/4"	NORMAL WEIGHT (145 PCF)

   5.1. CONCRETE MIX DESIGN SHALL BE PER THE 2022 CBC AND ACI 318–19. MIXING AND TRANSPORTING SHALL COMPLY WITH REQUIREMENTS FOR TRUCK–MIXED CONCRETE.
6. WATER CONTENT SHALL NOT EXCEED FIVE (5) GALLONS PER SACK OF CEMENT.
7. FLYASH IS NOT ACCEPTABLE UNLESS PREVIOUSLY REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD (SEOR).
8. ~~GROUTING UNDER STEEL BASE PLATES AND TOP PLATES SHALL BE "NON–SHRINK" OR "NON–SHRINK GROUT" MANUFACTURED BY MASTER BUILDERS, INC. OR APPROVED EQUAL MATERIAL, APPLICATION PER MANUFACTURER'S RECOMMENDATION.~~
9. ANCHOR BOLTS, DOWELS, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO FOUNDATION INSPECTION AND PLACING CONCRETE.
10. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT & BELOW 75 DEGREES FARENHEIT AND IN A MOIST CONDITION CONTINUOUSLY FOR THE FIRST 10 DAYS AFTER PLACEMENT UNLESS NOTED OTHERWISE ON THE DRAWINGS.
11. WHERE NEW CONCRETE IS TO BE PLACED AGAINST HARDENED CONCRETE, CONCRETE SURFACES SHALL BE ROUGHENED TO AN AMPLITUDE OF 1/4–INCH CLEAN EXPOSED AGGREGATE AND FREE OF LAITANCE & DEBRIS PRIOR TO SECOND POUR. TYPICAL UNLESS OTHERWISE NOTED ON THE DRAWINGS.
12. CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
13. ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD. WHEN "SUCH CONSENT IS ROVIDED, ADMIXTURES SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
14. READY–MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C94.
15. ALL CONCRETE SHALL BE CONSOLIDATED WITH MECHANICAL VIBRATORS,
16. PIPES, DUCTS, SLEEVES, CONDUITS, ETC. SHALL NOT BE PLACED THROUGH CONCRETE UNLESS SHOWN ON THE STRUCTURAL PLANS OR WITH WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
17. ALL SUBMITTALS SHALL BE SUBMITTED FOR REVIEW BY SEOR FOR ALL CONCRETE MIX DESIGNS AND CYLINDER TEST REPORTS. CONCRETE MIX DESIGN SHALL BE STAMPED AND SIGNED BY A LICENSED CIVIL ENGINEER.

EACH SHIPMENT TO THE FABRICATOR OF REINFORCING STEEL MUST BE ACCOMPANED BY CERTIFIED ML TEST REPORTS.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE S.E.O.R. SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES OR OMISSIONS ON THE DRAWINGS OR IN THE SPECIFICATIONS OR ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO CODES, RULES AND REGULATIONS. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. DIMENSIONS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK.
3. WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE LOCATED EITHER ON COLUMN LINES OR EQUALLY SPACED BETWEEN MEMBERS ON COLUMN LINES OR BETWEEN MEMBER OTHERWISE LOCATED.
4. ALL WORK AND MATERIALS SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
5. APPROVAL BY THE FIELD INSPECTOR DOES NOT MEAN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH IS UNCLEAR OR AMBIGUOUS MUST BE REFERRED TO S.E.O.R. FOR INTERPRETATION OR CLARIFICATION.
6. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING.
7. ALL SHOP DRAWINGS SHALL BE CHECKED AND APPROVED BY THE CONTRACTOR BEFORE SUBMITTAL TO S.E.O.R.
8. MATERIAL SUBMITTALS SHALL BE SUBMITTED TO AND APPROVED BY THE STRUCTURAL ENGINEER IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS.
9. UNLESS OTHERWISE SHOWN, ALL TYPICAL DETAILS WHERE APPLICABLE, SHALL BE USED.
10. CONTRACTOR SHALL DETERMINE LOCATION OF ALL EXISTING UTILITIES IN THE AREA TO BE EXCAVATED PRIOR TO EXCAVATION AND SHALL NOT PERFORM ANY WORK THAT WILL DAMAGE EXISTING UTILITIES.
11. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL AND STATE SAFETY REQUIREMENTS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS AND SEQUENCE OF CONSTRUCTION AND PERTAINING SHORING DESIGN.
13. CONTRACTOR SHALL VERIFY AND EXAMINE EXISTING CONDITIONS BEFORE STARTING ANY ALTERATION OR CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES SHOWN IN THE DRAWINGS. CONTRACTOR SHALL AGREE TO MAKE MODIFICATIONS TO FIT EXISTING CONDITIONS. WORK SHALL BE OUTLINED AND APPROVED BY THE STRUCTURAL ENGINEER.
14. CONTRACTORS AND SUBCONTRACTORS SHALL REVIEW THIS SET OF STRUCTURAL DRAWINGS AND PROVIDE RFI'S (REQUEST FOR INFORMATION) DURING THE BIDDING PROCESS.
15. CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE ENGINEERING COST OF ANY CHANGES ON THIS SET OF DRAWINGS AND ANY NEW DETAILS DUE TO THEIR METHOD AND MEANS OF CONSTRUCTION.

FOUNDATION NOTES

1. FOUNDATION DESIGN SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF SOIL REPORT FOR DAVIS ELEMENTARY SCHOOL MODERNIZATION STOCKTON, SAN JOAQUIN COUNTY, CALIFORNIA AS PREPARED BY TARRACON, DATED DECEMBER 2, 2024 TERRACON PROJECT NO. NA245115
2. ALL SITE WORK, EXCAVATION, RECOMPACTION, AND GRADING SHALL BE PERFORMED IN COMPLIANCE WITH THE SOILS REPORT AND OBSERVED BY THE SOILS ENGINEER.
3. CONCRETE FOR FOUNDATION IS DESIGNED AND DETAILED TO BE POURED MONOLITHICALLY. NO COLD JOINTS ARE ALLOWED.
4. DESIGN SOIL BEARING PRESSURE VALUE FOR SOIL IS 2,500 PSF FOR DEAD LOAD PLUS LIVE LOAD ~~AND 3,325 PSF FOR SHORT DURATION WIND AND SEISMIC LOADS~~.
5. ALL FOOTINGS SHALL HAVE A MINIMUM DEPTH OF 30 INCHES BELOW THE BOTTOM OF THE SLAB–ON–GRADE, OR 30 INCHES BELOW THE LOWEST FINISHED ADJACENT GRADE, WHICHEVER IS GREATER.
6. THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE TYPICAL FOOTING STEP DETAILS ON THESE DRAWINGS.
7. PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
8. FOUNDATIONS ARE DESIGNED AS PERMANENT FOUNDATIONS IN ACCORDANCE WITH TITLE 24, CHAPTER 18A.
   A. ~~ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RECOMMENDATIONS. BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS. SEE COVER SHEET FOR MINIMUM SEPARATION REQUIRED.~~
9. EXCAVATIONS ADJACENT TO EXISTING BUILDINGS OR WALLS WHICH EXTEND BELOW AN ANGLE OF 2:1 (HORIZONTAL : VERTICAL) 9" ABOVE THE BOTTOM OF THE FOOTINGS SHALL BE ADEQUATELY SHORED BY THE CONTRACTOR.
10. SEE ARCHITECTURAL AND OTHER PROJECT DRAWINGS AND COORDINATE WORK WITH OTHER TRADES WITH REGARDS TO CONDUIT AND PIPING LOCATIONS BEFORE BEGINNING EXCAVATION AND BEFORE PLACING CONCRETE.
11. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITY WORK TO AVOID CONFLICTS WITH FOOTINGS, MATS, GRADE BEAMS, AND CAISSONS.
12. COMPACTION REPORT SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO FOOTING INSPECTION.

PROJECT DESIGN CRITERIA

1. CODES: 2022 CALIFORNIA BUILDING CODE
2. STRUCTURAL DESIGN INFORMATION:

GRAVITY LOADS	DATA
ROOF LIVE LOAD	20 PSF
SNOW LOAD	0.00 PSF

EARTHQUAKE DESIGN	DATA
RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR	I = 1.0
MAXIMUM CONSIDERED EQ SPECTRAL RESPONSES	S_{MS} = 0.8284g , S_{M1} = 0.818g
SITE CLASS	D
SPECTRAL RESPONSE COEFFICIENTS	S_{DS} = 0.552 g , S_{D1} = 0.545 g
RESPONSE MODIFICATION COEFFICIENT	R = 6.5
DEFLECTION AMPLIFICATION FACTOR	C_d = 4.0
OVER–STRENGTH FACTOR	Ω_0 = 2.5
SEISMIC DESIGN CATEGORY	D
SEISMIC RESPONSE COEFFICIENT	C_S = 0.06 (ASD)
SEISMIC BASE SHEAR	V = 10,000 POUNDS (ASD)

WIND DESIGN	DATA
RISK CATEGORY	II
BASIC WIND SPEED (3–SEC GUST)	V = 95 MPH
WIND EXPOSURE	C
INTERNAL PRESSURE	± 0.18
ANALYSIS PROCEDURE	ASCE 7–16 CHAPTER 27, PART 1 CHAPTER 30, PART 1

SPECIAL INSPECTION

STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE IN CONFORMANCE WITH SECTION 1703A, 1704A, 1705A & 1706A OF THE BUILDING CODE. THE FOLLOWING CHECKED ITEMS SHALL REQUIRE SPECIAL INSPECTION:

ITEM	REQUIRED IF CHECKED	REMARKS
FOUNDATION OVER–EXCAVATION, COMPACTION, AND FILL: SEE SOILS REPORT.	☑	
CONCRETE REINFORCEMENT PLACEMENT	☑	
CONCRETE PLACEMENT	☑	
ANCHOR BOLT PLACEMENT AND EMBEDDED PLATES	☑	
FIELD WELDING	☑	
HIGH STRENGTH BOLTS	☑	

NOTE:

IT IS THE OWNER'S SOLE RESPONSIBILITY TO SEE THAT THESE TESTS AND INSPECTIONS ARE PERFORMED. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER WHEN THESE TESTS ARE TO BE CONDUCTED. THE INSPECTOR SHALL BE EMPLOYED BY THE OWNER. ALL TEST & INSPECTIONS SHALL BE PAID FOR BY THE OWNER.

THE SPECIAL INSPECTION TASKS TASKS NOTED HERE ARE SPECIFIC ONLY TO THE SCOPE OF WORK STATED ON THIS SHEET, AND OTHER SPECIAL INSPECTION TASKS ARE REQUIRED FOR THE COMPLETE SCOPE OF THE PROJECT. REFER TO DSA–103 FORM FOR LIST OF TESTING AND INSPECTIONS REQUIREMENTS.

STRUCTURAL OBSERVATION PROGRAM

STRUCTURAL OBSERVATION STAGES*	
CONSTRUCTION STAGE	ELEMENTS TO BE OBSERVED
PRIOR TO START OF CONSTRUCTION	PRE–CONSTRUCTION MEETING AS INDICATED IN THE STRUCTURAL OBSERVATION NOTES ABOVE
PLACEMENT OF EMBEDMENT PLATES	ALL EMBEDDED PLATES
PRIOR TO FOUNDATION CONCRETE POUR	FOUNDATION, REINFORCING AND ANCHOR BOLTS
CHORD/DRAG TIES PRIOR TO COVERING	EMBEDDED PLATE WELDS ANCHOR PLATE WELDS
COLUMN BASE WELDS	CAP PLATES AND SHIM PLATES WELDS

*PROVIDE MINIMUM 8 WORKING DAYS ADVANCE NOTICE TO THE STRUCTURAL OBSERVER ONCE ELEMENTS ARE READY FOR OBSERVATION.

THE STRUCTURAL OBSERVATION TASKS NOTED HERE ARE SPECIFIC ONLY TO THE SCOPE OF WORK STATED ON THIS SHEET, AND OTHER STRUCTURAL OBSERVATION TASKS ARE REQUIRED FOR THE COMPLETE SCOPE OF THE PROJECT.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT (DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Architect, Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form whatsoever, nor assigned to any third parties, without first obtaining the written permission of the Architect. Publication

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. MARIN No. 3545 STRUCTURAL STATE OF CALIFORNIA
SIGNED 08-28-2025

MRH Structural Engineers
5400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM
REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE
STRUCTURAL NOTES

SHEET NO.
S-0.1

ABBREVIATIONS:

THIS LIST IS FOR INFORMATION ONLY: OTHER ABBREVIATIONS MAY BE USED.
ABBREVIATIONS THAT ARE UNCLEAR SHOULD BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR CLARIFICATION.

AB	ANCHOR BOLT
ABV	ABOVE
ADD'L	ADDITIONAL
ADJ	ADJACENT
ALT	ALTERNATE
ANCH	ANCHOR
APX	APPROXIMATE
ARCH'L	ARCHITECTURAL
BLDG	BUILDING
BLK	BLOCK
BLK'G	BLOCKING
BEL	BELOW
BM	BEAM
BN	BOUNDARY NAILING
BOTT	BOTTOM
BP	BUTTON PUNCH
BR'G	BEARING
BBSMNT	ASEMENT
BTWN	BETWEEN
BU	BACK UP
C	CHANNEL, C-STUD or CAMBER
CANT	CANTILEVER
CBC	CALIFORNIA BUILDING CODE
CIP	CAST-IN-PLACE CONCRETE
CJ	CONSTRUCTION JOINT or CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CP	COMPLETE PENETRATION
CSK	COUNTERSINK
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DBL-L	DOUBLE ANGLE
DEP	DEPRESSED
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DO	DITTO (REPEAT)
DSA	DIVISION OF THE STATE ARCHITECT
DTL	DETAIL
DRWGS	DRAWINGS
DWL	DOWEL
E	EAST
(E)	EXISTING CONDITION
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATOR or ELEVATION
EN	EDGE NAIL
ENG	ENGINEER
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EQUIVALENT
ES	EACH SIDE or ENDS STAGGERED
EW	EACH WAY
EXIST	EXISTING
EXPAN	EXPANSION
EXT	EXTERIOR
FBW	FLARE BEVEL WELD
(F)	FUTURE CONDITION
f'c	MIN. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE
f'm	MIN. ULTIMATE COMPRESSIVE STRENGTH OF MASONRY
FF	FINISH FLOOR
FG	FINISH GRADE
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAIL
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FULL PENETRATION
FRM'G	FRAMING
FS	FAR SIDE
FT	FOOT or FEET
FTG	FOOTING
FW	FILLET WELD
GA	GAGE or GAUGE
GALV	GALVANIZED
G.B.	GLU-LAMINATED
GRD	GRADE
HDR	HEADER
HNGR	HANGER
HORIZ	HORIZONTAL
HS	HORIZONTAL SLOT
HSB	HIGH-STRENGTH BOLT (A325)
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INFO	INFORMATION
INT	INTERIOR
J	JOIST
JH	JOIST HANGER
JT	JOINT
L	ANGLE or ANGLE IRON
LB	LAG BOLT
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONGIT.	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LT WT	LIGHT-WEIGHT CONCRETE
MACH	MACHINE
MATL	MATERIAL
MANUF	MANUFACTURER
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MISCELANEOUS CHANNEL
MD	METAL DECKING
MECH'L	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MS	METAL STUD
MSW	METAL STUD WALL
(N)	NEW CONDITION
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NSG	NON-SHRINK GROUT
NTS	NOT TO SCALE
O	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPN'G	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OWG	OPEN WEB GIRDER
OWJ	OPEN WEB JOIST
P	UNISTRUT PRODUCT
P/C	PRE-CAST CONCRETE
PERP	PERPENDICULAR
PF	PAD FOOTING
PL	PLATE, or PROPERTY LINE
PLCS	PLACES
PLYWD	PLYWOOD
PP	PARTIAL PENETRATION
PSL	TRUSS JOIST PARALLAM
PT	POST-TENSIONED / BOLT
QTY	QUANTITY
R	RAFTER
RAD	RADIUS
REF	REFER, or REFERENCE
REINF	REINFORCING
REQ'D	REQUIRED
REV	REVISED, or REVISION
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SB	SOLID BLOCKING
SC	SLIP CRITICAL CONNECTION/BOLT
SCHED	SCHEDULE
SECT	SECTION
SEOR	STRUCTURAL ENGINEER OF RECORD
SHT	SHEET
SHT'G	SHEATHING
SIM	SIMILAR
SLTD	SLOTTED
SMD	SEE MECHANICAL DRAWING
SOG	SLAB ON GRADE
SPC	STANDARD PIPE COLUMN
SPEC	SPECIFICATION
SQ	SQUARE
SSL	SHOT-SLOTTED HOLES
ST	SNUG TIGHT / BOLT
STAGG	STAGGER
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STR	STRUCTURE, or STRUCTURAL
SYM	SYMMETRICAL
T & B	TOP AND BOTTOM
T & G	TONGUE AND GROOVE
TBD	TO BE DETERMINED
THK	THICK
THRD	THREAD, or THREADED
TN	TOE NAIL
TNS	THREADED NELSON STUD
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOP	TOP OF PLYWOOD
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSVERSE
TS	TUBE STEEL
TSW	TOP SEAM WELD
TYP	TYPICAL
UBS	UNIFORM BUILDING CODE
UNIF	UNIFORM
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC TESTING
VERT	VERTICAL
VIF	VERIFY IN FIELD
VS	VERTICAL SLOT
VSC	VERTICAL SIDE CLIP
W	WIDE FLANGE, or WEST
W/	WITH
W/O	WITHOUT
WGAL	WORKABLE GAGE IN ANGLE LEG
WP	WORK POINT, or WATERPROOF
WWF	WELDED WIRE FABRIC
&	AND
@	AT
x	BY
℄	CENTERLINE
ø	DIAMETER
=	EQUALS
#	NUMBER, or POUNDS
P	PLATE
>	GREATER THAN
<	LESS THAN
⍋	DOUBLE ANGLE
⊥	PERPENDICULAR

COLD FORMED STEEL

1. ALL WORK SHALL MEET THE REQUIREMENTS OF AMERICAN IRON AND STEEL INSTITUTE (AISI) DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
2. DESIGN SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING:
   a. CBC 2022 WITH DSA AMENDMENTS
   b. AISI S100—16(2020) W/S2—20: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2016 EDITION (REAFFIRMED 2020), WITH SUPPLEMENT 2, 2020 EDITION
   c. AISI S202—20: CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL FRAMING, 2020
   d. AISI S220—20: NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL NONSTRUCTURAL FRAMING
   e. AISI S240—20: NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURING FRAMING, 2020
   f. AISI S400—20: NORTH AMERICAN STANDARD FOR SEISMIC DESIGN OF COLD-FORMED STEEL STRUCTURAL SYSTEMS, 2020
3. ALL STRUCTURAL, RAIL AND DECK COMPONENTS WILL BE GALVANIZED STEEL.
4. ALL COLD FORMED STEEL SHALL CONFORM TO THE FOLLOWING:
   ~~A. ASTM A-1011 HSLAS, CLASS 1, GRADE 50 WITH F_y=50 KSI & F_u=65 KSI~~
   ~~B. ASTM A-1011 HSLAS, CLASS 1, GRADE 55 WITH F_y=55 KSI & F_u=70 KSI~~
6. ALL WORK SHALL MEET THE REQUIREMENTS OF AMERICAN WELDING SOCIETY (AWS) D1.1 AND D1.3 SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURE.
7. ALL WELDING TO BE PERFORMED BY CERTIFIED LIGHT GAUGE WELDERS CERTIFIED FOR ALL APPROPRIATE DIRECTION COMPLYING WITH AWS D1.3.
   WELDING RODS TO CONFORM TO THE FOLLOWING:
   ~~A. 18 GAUGE AND LIGHTER E60XX~~
   B. 16 GAUGE AND HEAVIER E70XX OR E6013
   C. COLD FORMED TO STRUCTURAL STEEL E70XX LOW HYDROGEN
8. WELD SIZES FOR WELDING LIGHT GAUGE MATERIAL SHALL BE AS FOLLOWS:
   ~~A. 18 GAUGE 1/16"~~
   ~~B. 16 GAUGE 3/32"~~
   C. 14 GAUGE AND HEAVIER 1/8"
9. HOLES IN MEMBERS SHALL BE DRILLED FOR BOLT DIAMETER PLUS 1/16".
10. ALL COLD FORM WELDING SHALL HAVE PRE-QUALIFIED WPSs OR TO BE TESTED TO HAVE QUALIFIED WPSs PER AWS IN COMPLIANCE WITH ANSI/AWS D1.3(2008).

COLD FORMED STEEL FASTENERS

1. ALL SHEET METAL SCREWS (SMS) SHALL BE SELF-DRILLING SCREWS AND SELF-TAPPING ZINC GALVANIZED SCREWS, AND SHALL CONFORM TO I.C.C. ESR-1976, U.N.O.
2. SCREWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND SHALL HAVE SUFFICIENT LENGTH TO ENSURE PENETRATION INTO STEEL STUD BY AT LEAST 3 FULL DIAMETER THREADS.
3. THE DISTANCE BETWEEN FASTENERS SHALL NOT BE LESS THAN 3 DIAMETERS. THE DISTANCE FROM CENTER OF FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 3 DIAMETERS.

WOOD FRAMING NOTES

1. WOOD FRAMING SHALL BE DOUGLAS FIR-LARCH MARKED BY W.W.P.A. OR W.C.L.I.B. AS FOLLOWS, UNLESS NOTED OTHERWISE. EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED.

DESCRIPTION	GRADE
VERTICAL MEMBERS: 2X, 4X & LARGER	NO. 1
HORIZONTAL HEADERS: 2X, 4X & LARGER	NO. 1
HORIZONTAL SILLS, PLATES & BLK'G.: 2X, 4X & LARGER	NO. 2

2. ALL SHEATHING SHALL BE APA RATED SHEATHING, GRADE, THICKNESS AND PANEL INDEX AS INDICATED ON DRAWINGS. ALL SHEETS SHALL BE BONDED WITH EXTERIOR GLUE. NAILING SHALL BE INSPECTED PRIOR TO COVERING. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD DOC PS 1-09 AND PS 2-10.
3. EACH SHEATHING SHEET SHALL HAVE A MINIMUM AREA OF 8 SQUARE FEET AND A MINIMUM DIMENSION IN ANY DIRECTION OF 2 FEET.
4. WOOD STRUCTURE PANELS SHALL CONFORM TO REQUIREMENTS FOR THEIR TYPE IN ACCORDANCE WITH THE FOLLOWING VOLUNTARY STANDARDS BY THE ENGINEERED WOOD ASSOCIATION (APA):
   a. VOLUNTARY PRODUCT STANDARD, STRUCTURAL PLYWOOD, PS 1-09.
   b. VOLUNTARY PRODUCT STANDARD, PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS, PS 2-10.
5. WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED BY THE APA TRADEMARK INDICATING CONFORMANCE TO APPLICABLE VOLUNTARY STANDARD.
6. WHERE PANELS ARE EXPOSED TO REPEATED WETTING AND REDRYING, LONG-TERM EXPOSURE TO WEATHER, OR CONDITIONS OF SIMILAR SEVERITY, "EXTERIOR" APA RATED PLYWOOD SHEATHING SHALL BE USED. C-D "EXPOSURE 1" APA RATED PLYWOOD SHEATHING (CDX) SHALL NOT BE USED FOR CONDITIONS INVOLVING LONG-TERM EXPOSURE TO WEATHER.
7. WOOD STRUCTURE PANELS TO BE USED AS SIDING SHALL COMPLY WITH ANSI/APA PRP-210.
8. FOR ALL TREATED WOOD MEMBERS, ALL CUTS, HOLES AND INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL OF NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M4-06.
9. PLYWOOD AND/OR LUMBER SHIMS IF USED AS FILLER MATERIALS SHALL BE GLUED AT FULL CONTACT AREA IN STRICT COMPLIANCE WITH A.P.A. REQUIREMENTS. THE USE OF SHIMS MUST BE APPROVED BY THE PROJECT STRUCTURAL ENGINEER. SHIM MATERIAL SHALL BE PLYWOOD CD EXP 1 OR EQUAL.
10. ALL FRAMING HARDWARE ARE STRONG-TIE CONNECTORS AS MANUFACTURED BY SIMPSON COMPANY, UNLESS NOTED OTHERWISE. INSTALL PER MANUFACTURER'S RECOMMENDATION. NO SUBSTITUTION WITHOUT WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
11. STRUCTURAL FRAMING SHALL BE DOUGLAS FIR IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES NO. 16 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED.
12. BOLTS FOR TIMBER CONNECTIONS SHALL CONFORM TO ANSI /ASME STANDARD **B18.2.1** AND THE REQUIREMENTS OF THE **2018** NDS. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN BOLT DIAMETER. RE-TIGHTEN BOLTS BEFORE CLOSING IN WORK. BOLTS SHALL BE FULL BODY STEEL BOLTS WITH MINIMUM YIELD STRENGTH OF 45,000 PSI. BOLTS SHALL CONFIRM TO ASTM A-307.
13. LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD **B18.2.1** AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER AND LARGER LAG SCREWS SHALL HAVE PRE-DRILLED HOLES. PROVIDE FULL DIAMETER BODY LAG SCREWS WITH BENDING YIELD STRENGTHS PER **TABLE 12J** AND **12K** IN THE **2018** NDS.
14. PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD.
15. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD **B18.6.1** AND THE REQUIREMENTS OF THE **2018** NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS PER TABLES 12L AND 12M IN 2018 NDS.
16. WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.
17. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE- BORED TO 3/4 OF THE NAIL DIAMETER.
18. ALL NAILS SHALL BE COMMON NAILS PER ALL REQUIREMENTS OF **2018** NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE **2304.9.10**. ALL NAILS SHALL BE GALVANIZED OR OTHER APPROVED CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS, PER THE REQUIREMENTS OF CCR TITLE 24, PART 2, WITH MINIMUM BENDING YIELDS PER **TABLE 12N, 12P, 12Q AND 12R** IN 2018 NDS.
19. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION **2303.1.9**. CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS. PRESSURE TREATED WOOD AND IDENTIFICATION MUST COMPLY WITH CBC **2303.1.9.1**. ALL FOUNDATION MEMBERS SHALL BE MARKED AS "FOR GROUND CONTACT (0C4A)" OR "FOR ABOVE GROUND USE (0C3A OR 0C3B)" AS APPROPRIATE. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/8 COPPER GREEN 2 OR AN APPROVED EQUIVALENT). WHERE NOTED, MEMBERS BELOW THE SUB FLOOR THAT ARE NOT A PART OF THE FOUNDATION SHALL BE PRESSURE TREATED PER AWPA STANDARD UI AND M4.
20. ALL MATERIAL USED IN WOOD FOUNDATION SHALL BE PRESSURE TREATED.
21. IF MACHINE NAILING IS UTILIZED FOR THIS PROJECT, CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF CCR TITLE 24, PART 2. MACHINE NAILING SHALL BE APPROVED BY THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT PRIOR TO INSTALLATION OF NAILS.
22. MACHINE APPLIED NAILING- SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUOUS SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
23. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL COMPLY WITH SEC. **2304.10** OF CBC.

ADDITIONAL NOTES:

BULDING CODES:
ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE STATE OF CALIFORNIA CODE OF REGULATIONS, TITLE 24, PARTS 1 4 2 AND C.B.C. 2022 EDITION. A COPY OF THE ABOVE MENTIONED CODES SHALL BE MADE AVAILABLE AT THE PLANT AND SITE.

POWDER ACTUATED FASTENERS:

A. HILTI NC PRODUCTS
UNLESS OTHERWISE NOTED ALL HILTI POWDER ACTUATED FASTENERS USED SHALL BE CATALOG "X-U 57 P8 W/ A SHANK DIAMETER OF Ø.157". (AT 3/8" OR 1/2" PLYWOOD TO 1/4" HSS PROVIDE CATALOG "X-U 32 P8 SS W/ A SHANK DIAMETER OF Ø.157".) TYP. PER I.C.C. REPORT #ESR-2269 RE-ISSUED DATE FEBRUARY 2025.

B. SIMPSON STONG-TIE PRODUCTS
UNLESS OTHERWISE NOTED ALL SIMPSON POWDER ACTUATED FASTENERS USED SHALL BE CATALOG "PDPAUL-28T W/ A SHANK DIAMETER OF Ø.157". (AT 3/8" OR 1/2" PLYWOOD TO 1/4" HSS PROVIDE CATALOG "PDPAUL-25 W/ A SHANK DIAMETER OF Ø.157".) TYP. PER I.C.C. REPORT #ESR-2138 RE-ISSUED DATE MARCH 2025

NAILING NOTES:

NAILING: (NAILS MAY BE COMMON OR BOX, EXCEPT WHERE NOTED AS COMMON)

FASTENING SCHEDULE

WALL

8. STUD TO STUD (NOT AT BRACED WALL PANEL) — 16d COMMON (3 1/2"xØ.162") @ 24" O.C. FACE NAIL; 16d BOX (3"xØ.128") OR 3"xØ.131" NAILS @ 16" O.C. FACE NAIL
9. STUD TO STUD @ ABUTTING STUDS @ INTERSECTING WALL CORNERS (AT BRACED WALL PANELS) — 16d COMMON (3 1/2"xØ.162") @ 16" O.C. FACE NAIL OR 16d BOX (3 1/2"xØ.128") @ 2" O.C. FACE NAIL OR 3"xØ.131" NAILS @ 12" O.C. FACE NAIL
10. BUILT UP HEADER (2" TO 2" HEADER) — 16d COMMON (3 1/2"xØ.162") @ 16" O.C. EACH EDGE FACE NAIL OR 16d BOX (3 1/2"xØ.135") @ 12" O.C. EACH EDGE FACE NAIL
11. CONTINUOUS HEADER TO STUD — 4-8d COMMON (2 1/2"xØ.131") OR 4-10d BOX (3"xØ.128"), TOENAIL
12. TOP PLATE TO TOP PLATE — 16d COMMON (3 1/2"xØ.162") @ 16" O.C. FACE NAIL OR 10d BOX (3"xØ.128") @ 12" O.C. @ FACE NAIL
13. TOP PLATE TO TOP PLATE, @ END JOINTS — 8-16d COMMON (3 1/2"xØ.162") OR 12-10d BOX (3"xØ.128") @ EACH SIDE OF END JOINT, FACE NAIL (MIN. 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT @ BRACED WALL PANELS) — 16d COMMON (3 1/2"xØ.162") @ 16" O.C. FACE NAIL OR 16d BOX (3 1/2"xØ.135") @ 12" O.C. FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING @ BRACED WALL PANELS — 2-16d COMMON (3 1/2"xØ.162" OR 3-16d BOX (3 1/2"xØ.135") @ 16" O.C. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE — 4-8d COMMON (2 1/2"xØ.131") OR 4-10d BOX (3"xØ.128"), TOENAIL; 2-16d COMMON (3 1/2"xØ.162") OR 3-10d BOX (3"xØ.128"), END NAIL; 3-16d COMMON (3 1/2"xØ.162") END NAILS OR 6-16d COMMON (3" x Ø.31") TOENAILS @ 24"
17. TOP OR BOTTOM PLATE TO STUD — 2-16d COMMON (3 1/2"xØ.162") OR 3-10d BOX (3"xØ.128"), END NAIL; 3-16d COMMON (3 1/2" x Ø.162") END NAILS OR 6-16d COMMON (3" x Ø.31") TOENAILS @ 24"
18. TOP PLATES LAP @ CORNERS & INTERSECTIONS — 2-16d COMMON (3 1/2"xØ.162") OR 3-10d BOX (3"xØ.128"), FACE NAIL

WALL SHEATHING

31. PLYWOOD/OSB BACKING — 8d COMMON (2 1/2" x Ø.131") @ 6" O.C. EN. & 8d @ 12" O.C. FN. (U.O.N. PER SHEAR WALL SCHEDULE)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever without the permission of the Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. ALSAFARI No. 3545 MRH STRUCTURAL STATE OF CALIFORNIA
SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

REVISIONS:

07-23-25	DSA CORRECTIONS

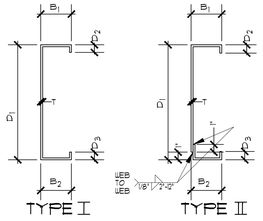
DATE JULY 23, 2025
JOB NO. 25775

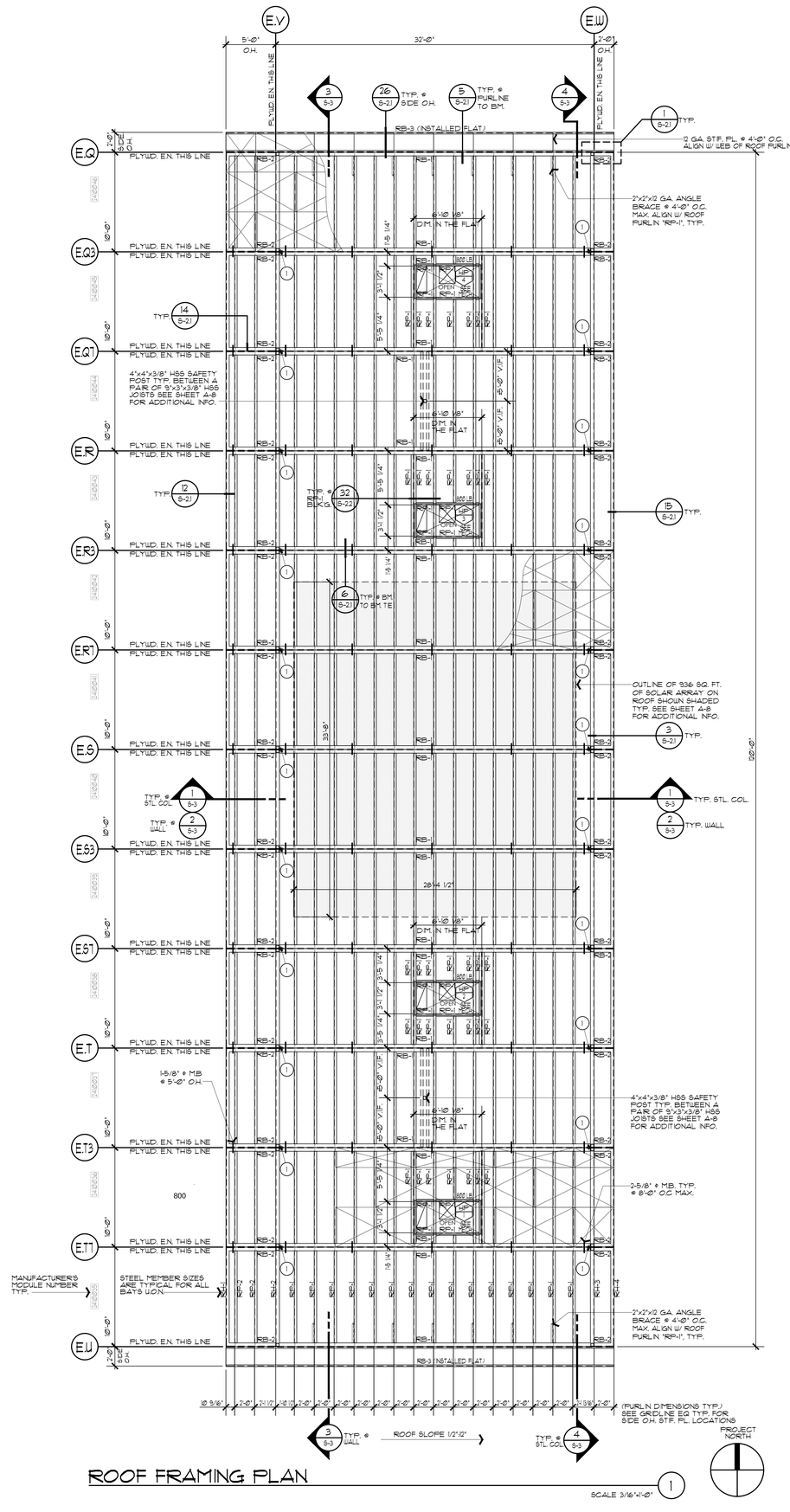
SHEET TITLE
STRUCTURAL NOTES

SHEET NO.
S-0.2

LIGHT GAUGE STEEL MEMBER SCHEDULE

MEMBER		D_1	B_1	B_2	D_2	D_3	T	GA.	TYPE	YIELD STRENGTH
ROOF BEAM	"RB-1"	12" MIN. 28" MAX.	4 1/2"	4 1/2"	1Ø9" MIN.	1Ø9" MIN.	.135"	1Ø	I	FY= 5Ø KSI. PROVIDE 1/2" CAMBER AT INTERIOR ROOF BEAMS ONLY (AT MIDSPAN TYP.)
ROOF BEAM	"RB-2"	9"	4 1/2"	4 1/2"	1Ø9" MIN.	1Ø9" MIN.	.135"	1Ø	II	FY= 5Ø KSI. (@ OVERHANG)
SIDE O.H. BEAM	"RB-3"	24"	9"	9"	2" MIN.	2" MIN.	1Ø5"	12	I	FY= 5Ø KSI. INSTALLED SIDEWAYS ("FLAT" ON PLANS TYP.)
O.H. HEADER	"RH-1"	9"	4"	4"	1Ø8" MIN.	1Ø8" MIN.	.135"	1Ø	I	FY= 5Ø KSI.
ROOF HEADER	"RH-2"	28"	4 1/2"	4 1/2"	1Ø8" MIN.	1Ø8" MIN.	.135"	1Ø	I	FY= 5Ø KSI.
ROOF HEADER	"RH-3"	12"	4 1/2"	4 1/2"	1Ø8" MIN.	1Ø8" MIN.	.135"	1Ø	I	FY= 5Ø KSI.
O.H. HEADER	"RH-4"	9"	4"	4"	1Ø8" MIN.	1Ø8" MIN.	.135"	1Ø	I	FY= 5Ø KSI.
ROOF PURLIN	"RP-1"	9"	3"	3"	.75" MIN.	.75" MIN.	Ø.75"	14	I	FY= 5Ø KSI.
ROOF PURLIN	"RP-2"	9"	3"	3"	.75" MIN.	.75" MIN.	Ø.75"	14	I	FY= 5Ø KSI. (@ OVERHANG)





ROOF FRAMING PLAN

SCALE 3/16"=1'-Ø" 1

ROOF NOTES:

1. 3/4" OR 23/32 CDX. PLYWD. UNDERLAYMENT 48/24 OR 24" O.C. SPAN RATING PER PS-1-Ø9 W/ T&G EDGES EXPOSURE 1 P.T.S. APA. PSVPTL. OR TECO W/ ETE BALLISTIC POINT KNURLED FASTENERS @ 6" O.C. EN. & 6" O.C. FN. TYP. U.O.N. ALL FASTENERS TO BE Ø.144"Ø x 1 1/2" LONG TYP. P/N NO. AKN-144 SEE IAPMO REPORT NUES 335 REV. DATE 10/22/2025.
2. MIN. PLYWOOD PANEL WIDTH = 24". PLACE PLYWOOD PANELS PERPENDICULAR TO ROOF PURLNS TYP.
3. PLYWOOD EDGES ARE UN-BLOCKED TYP.

(1) CHORD TIE AT ROOF HDR. USE 4"x3"x1/2"x8" LONG STL. ANGLE W/ 2- 5/8"Ø M.B. @ BEAM TO BEAM TE, SEE DETAIL 42/8-22

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT (DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Meehleis Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Meehleis Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. MAHRI No. 3545 STRUCTURAL STATE OF CALIFORNIA
SIGNED 12-15-2025
MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

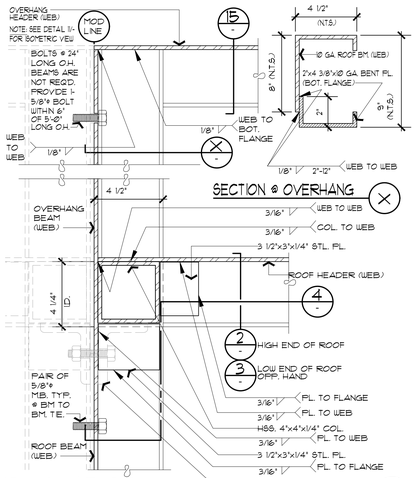
REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE
ROOF FRAMING PLAN

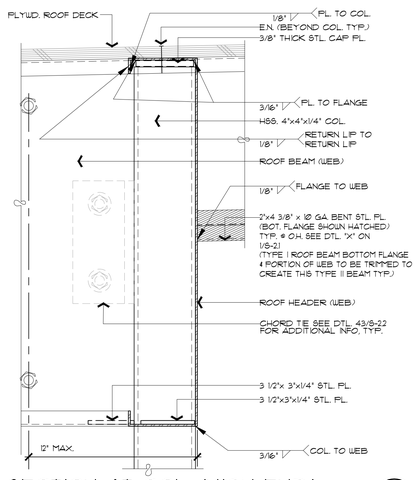
SHEET NO.
S-1



PLAN AT COL.

1 -

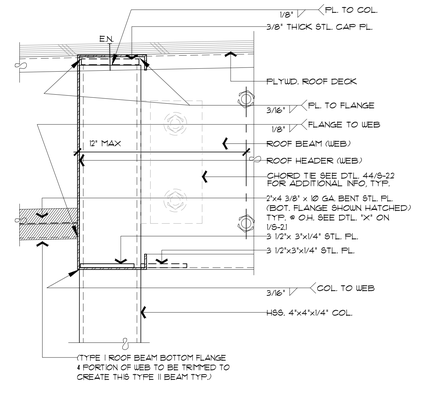
SCALE: 3"=1'-0"



SECTION AT COL. (HIGH END)

2 -

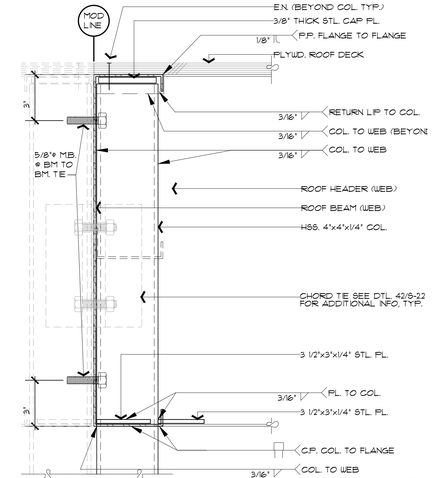
SCALE: 3"=1'-0"



SECTION AT COL. (LOW END)

3 -

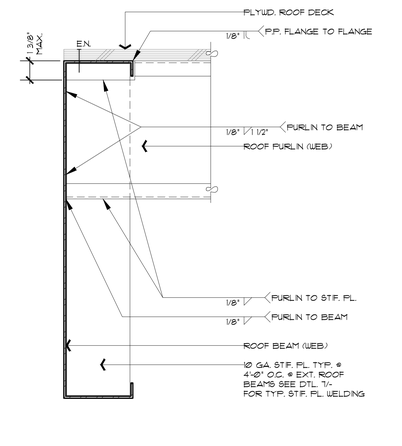
SCALE: 3"=1'-0"



SECTION @ COL.

4 -

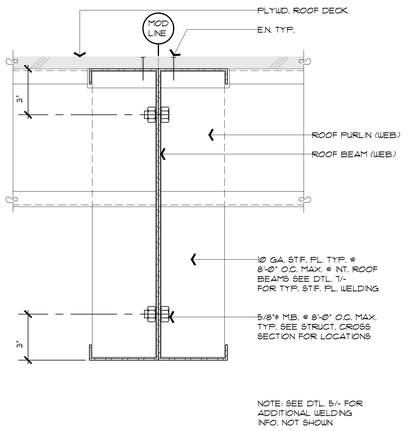
SCALE: 3"=1'-0"



TYP. ROOF PURLIN @ BEAM

5 -

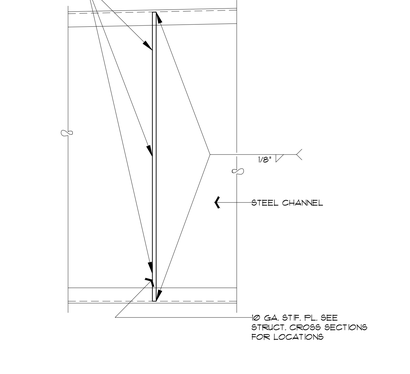
SCALE: 3"=1'-0"



ROOF BEAM TO BEAM TIE

6 -

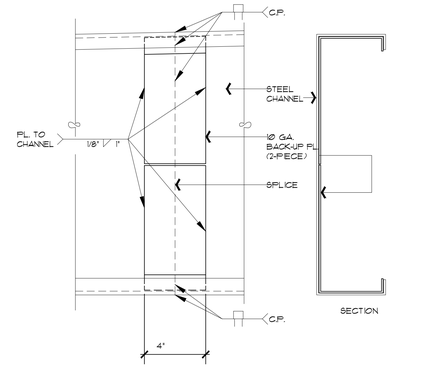
SCALE: 3"=1'-0"



TYPICAL STIF. PL. WELDING

7 -

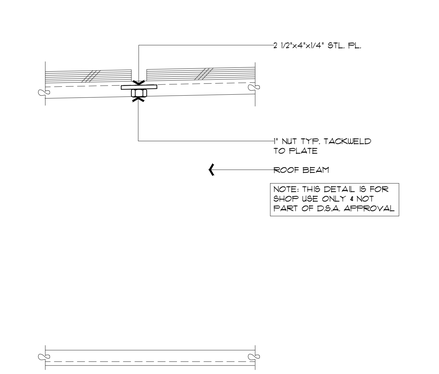
SCALE: 3"=1'-0"



TYPICAL BEAM SPLICE

8 -

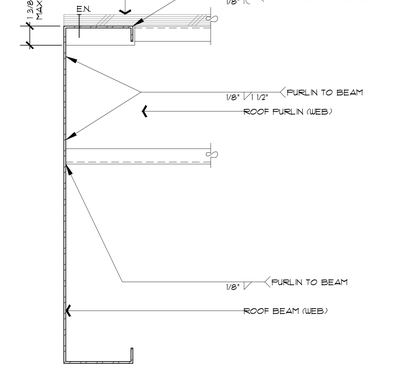
SCALE: 3"=1'-0"



LIFTING NUT @ BEAM

9 -

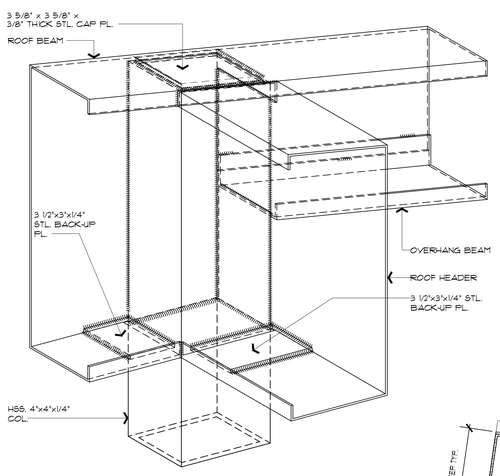
SCALE: 3"=1'-0"



TYPICAL ROOF PURLIN @ EEAM

10 -

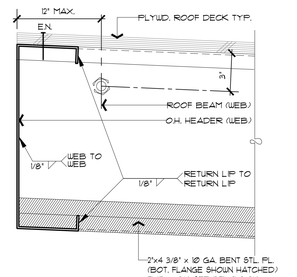
SCALE: 3"=1'-0"



ISOMETRIC VIEW COL. @ ROOF

11 -

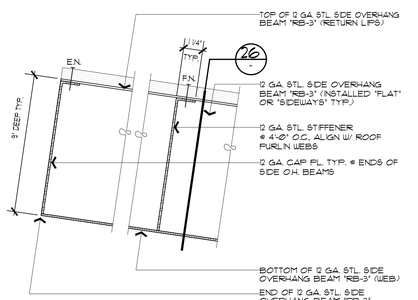
SCALE: 3"=1'-0"



O.H. HEADER @ HIGH END OF ROOF

12 -

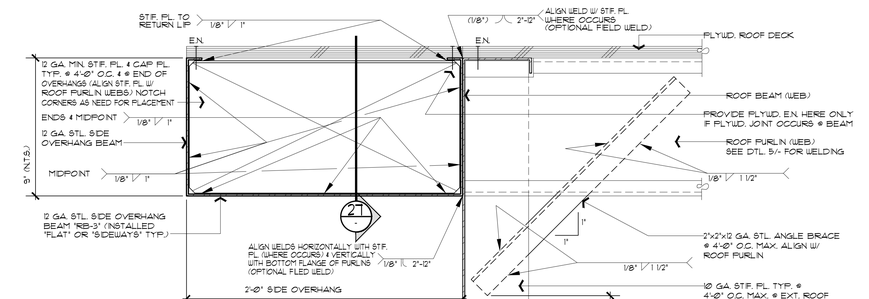
SCALE: 3"=1'-0"



STIFFENER AT SIDE OVERHANG

27 -

SCALE: 3"=1'-0"



SIDE O.H.

26 -

SCALE: 3"=1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT (DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC. A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA., 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. YASAIRI No. 3545 STRUCTURAL STATE OF CALIFORNIA
SIGNED 12-15-2025
MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

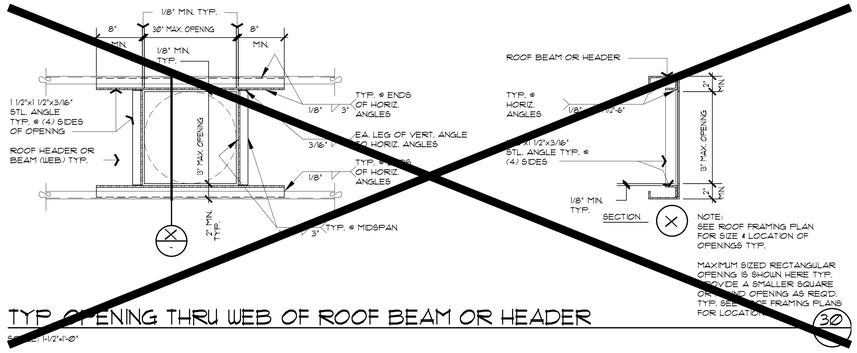
REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

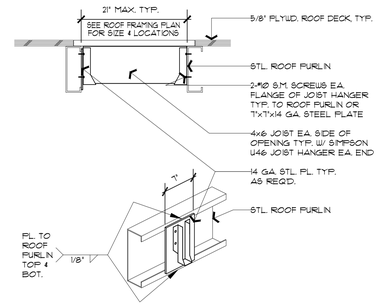
SHEET TITLE
STRUCTURAL DETAILS

SHEET NO.
S-2.1



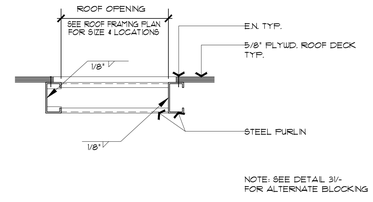
TYP. OPENING THRU WEB OF ROOF BEAM OR HEADER

SCALE: 1-1/2"=1'-0" — 30



ALT. WOOD BLK'G. @ ROOF

SCALE: 1"=1'-0" — 31

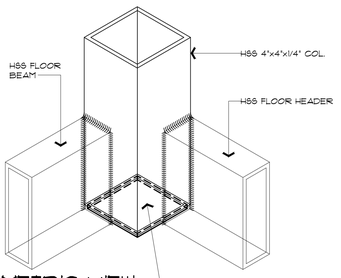


MISC. WELDING DETAIL

SCALE: 1"=1'-0" — 32

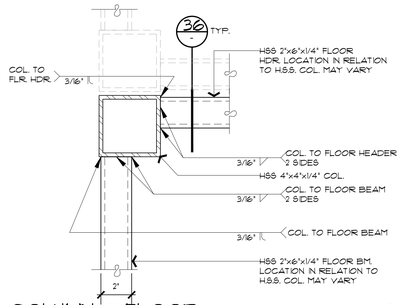
SPACE

SCALE: 3"=1'-0" — 33



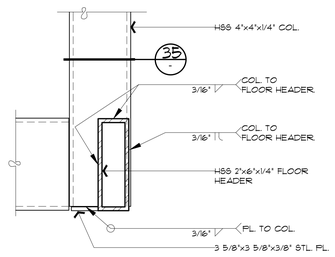
ISOMETRIC VIEW COLUMN @ FLOOR

SCALE: NONE — 34



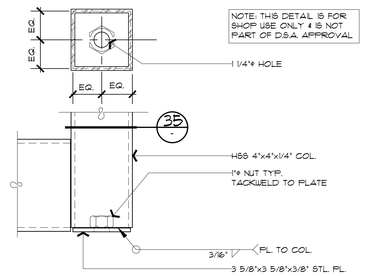
COLUMN @ FLOOR

SCALE: 3"=1'-0" — 35



SECTION @ COL. @ FLOOR

SCALE: 3"=1'-0" — 36



SHIPPING TIE DOWN

SCALE: 3"=1'-0" — 37

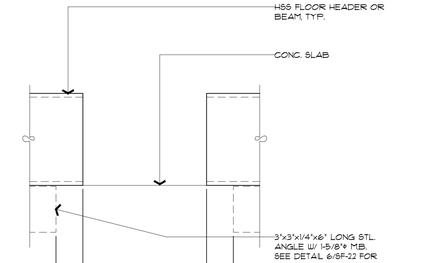


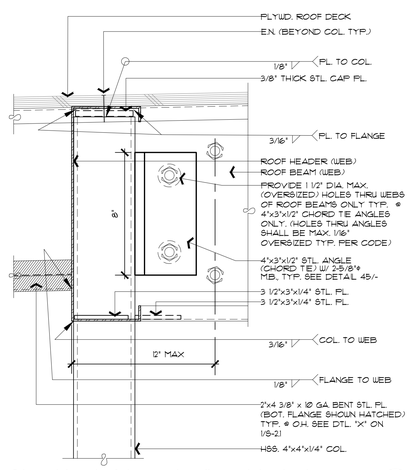
PLATE AT EXT. HDR/BM. OPENING

SCALE: 3"=1'-0" — 38



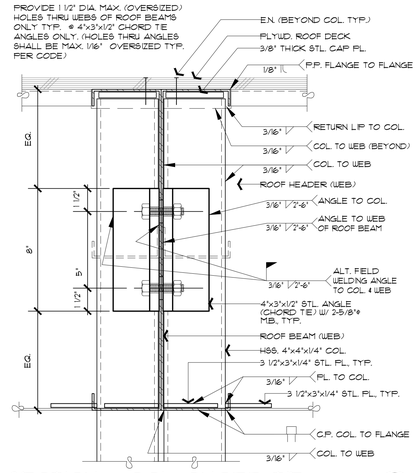
TYPICAL HSS. FLOOR BEAM SPLICE

SCALE: 3"=1'-0" — 39



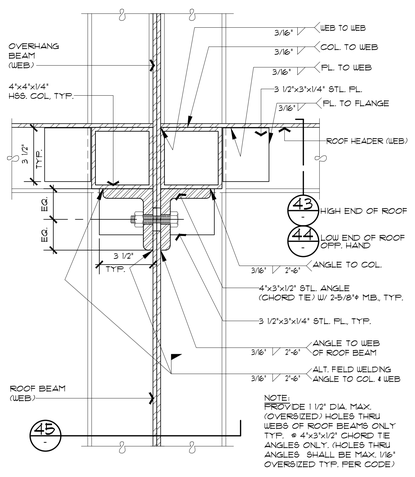
SECTION AT COL. (LOW END)

SCALE: 3"=1'-0" — 44



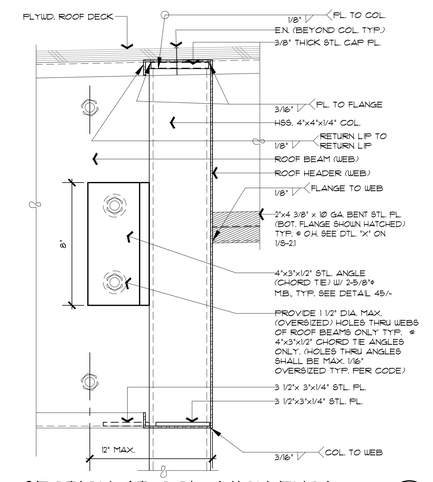
SECTION @ COL. CHORD TIE

SCALE: 3"=1'-0" — 45



PLAN AT COL. CHORD TIE

SCALE: 3"=1'-0" — 42



SECTION AT COL. (HIGH END)

SCALE: 3"=1'-0" — 43

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER MUHAMMAD R. MAHFUZ No. 36545 MRH STRUCTURAL STATE OF CALIFORNIA
SIGNED 12-15-2025
MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

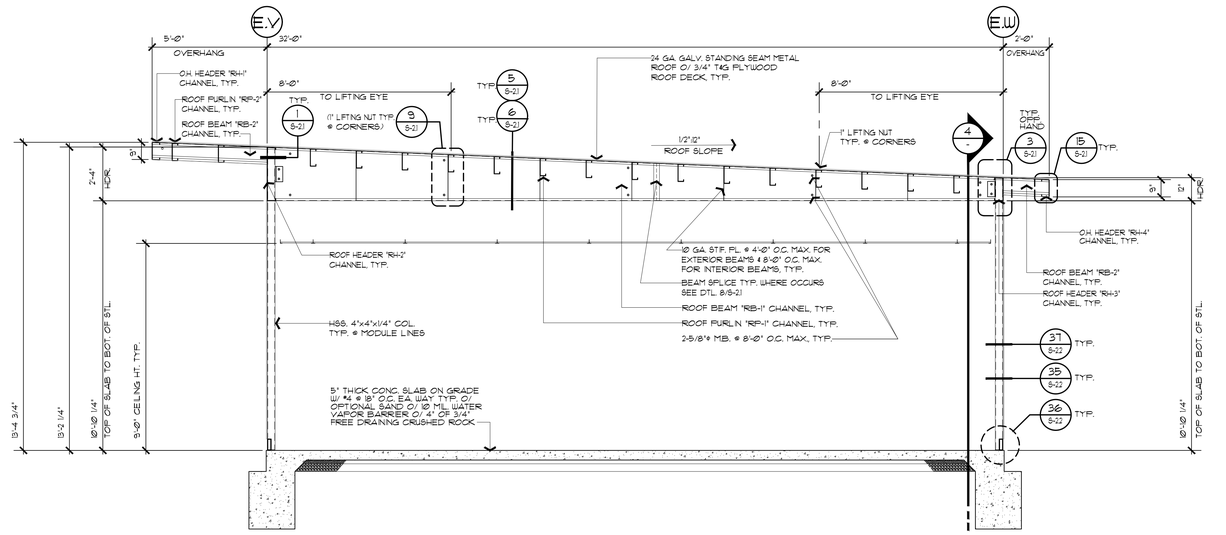
DRAWN: BLB
CHECKED: MM
REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

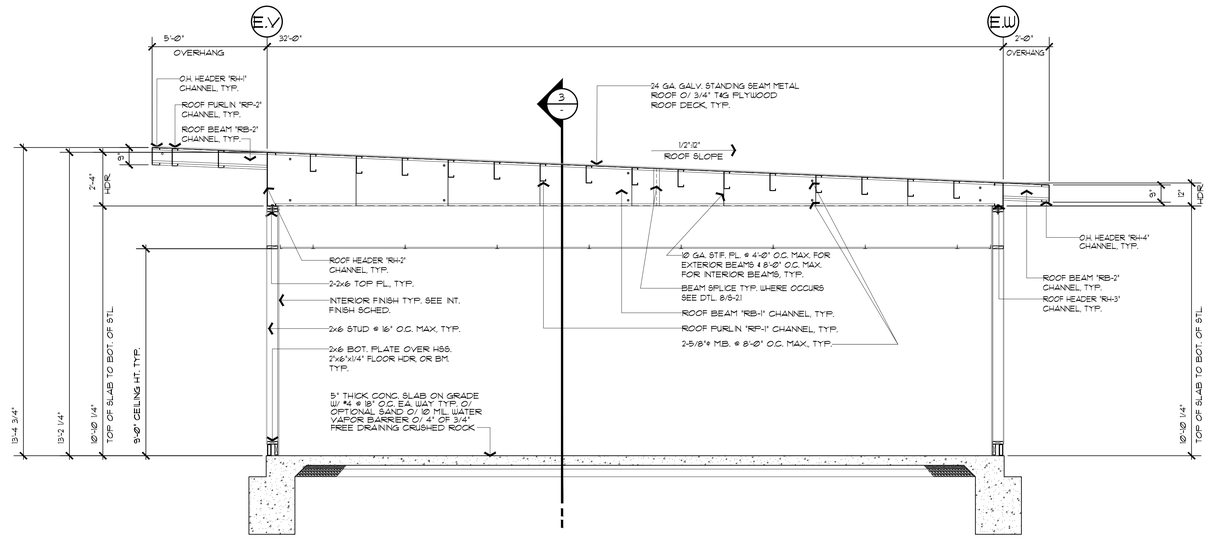
SHEET TITLE
STRUCTURAL DETAILS

SHEET NO.
S-2.2



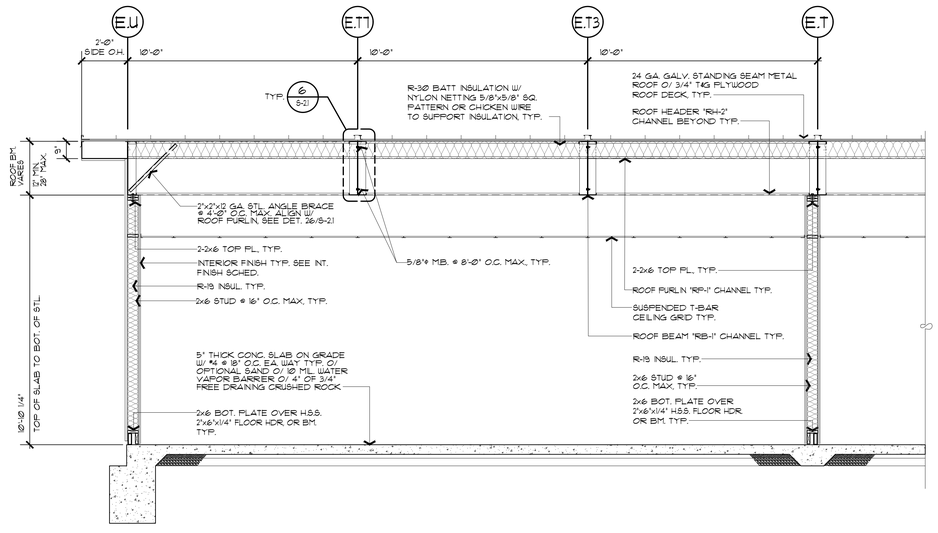
STRUCTURAL CROSS-SECTION AT BLD'G COLUMNS

SCALE: 3/8"=1'-0" 1



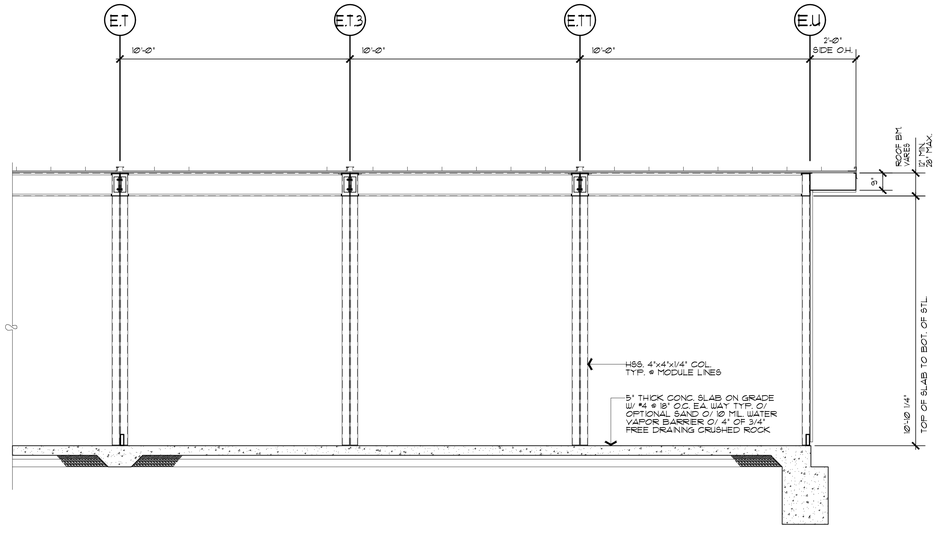
STRUCTURAL CROSS-SECTION AT BLD'G. WALL

SCALE: 3/8"=1'-0" 2



STRUCTURAL CROSS-SECTION AT BLD'G. WALLS

SCALE: 3/8"=1'-0" 3



STRUCTURAL CROSS-SECTION AT BLD'G. COLUMNS

SCALE: 3/8"=1'-0" 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Building Firm, and are not to be reproduced, changed or copied in any form or manner whatsoever without permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. YAZIRI No. 3545 STRUCTURAL STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN:	BLB
CHECKED:	MM

REVISIONS:

07-23-25	DSA CORRECTIONS

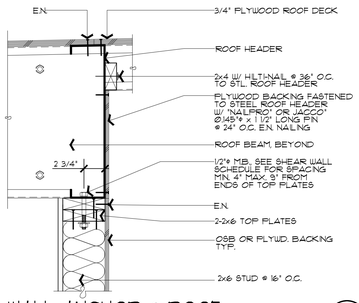
DATE	JULY 23, 2025
JOB NO.	25775

SHEET TITLE

STRUCTURAL CROSS-SECTION

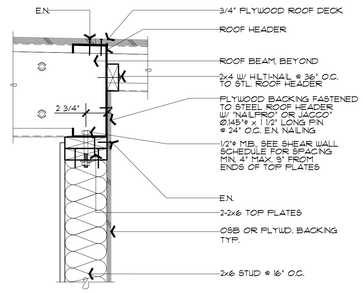
SHEET NO.

S-3



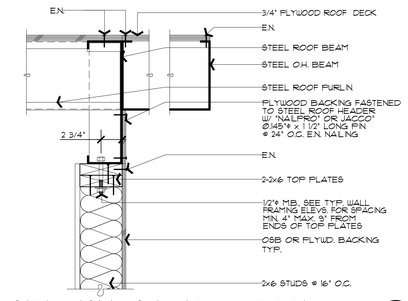
END WALL ANCHOR @ ROOF 1

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



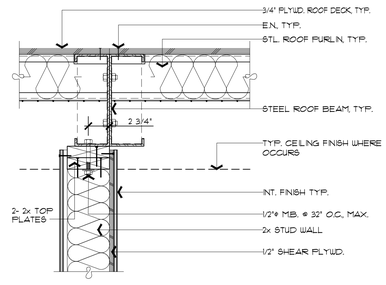
END WALL ANCHOR @ ROOF 2

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



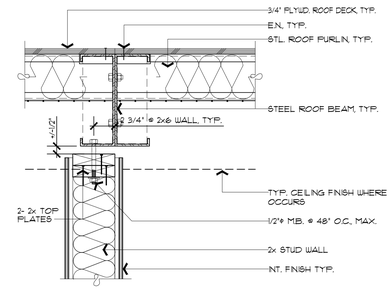
SIDE WALL ANCHOR @ ROOF 3

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



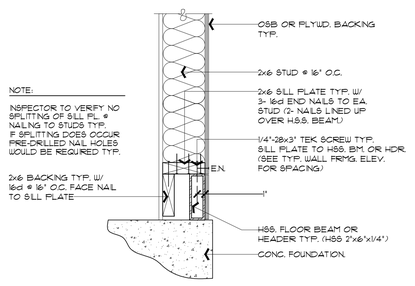
INT. SHEAR WALL ANCHOR @ ROOF 4

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



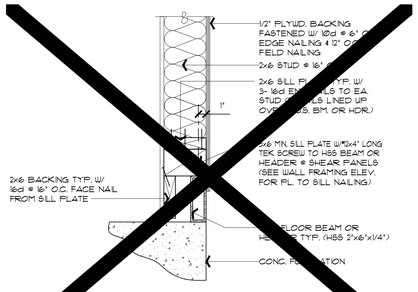
INT. WALL ANCHOR @ ROOF 5

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



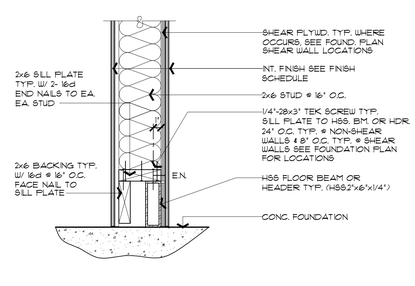
EXT. WALL ANCHOR @ FLOOR 6

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



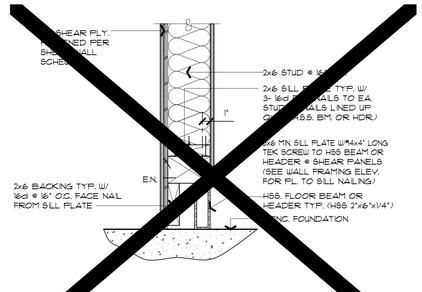
EXT. SHEAR WALL ANCHOR @ FLOOR 6A

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



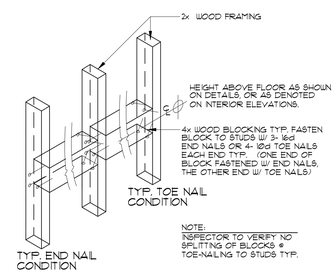
INT. WALL ANCHOR @ FLOOR 7

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



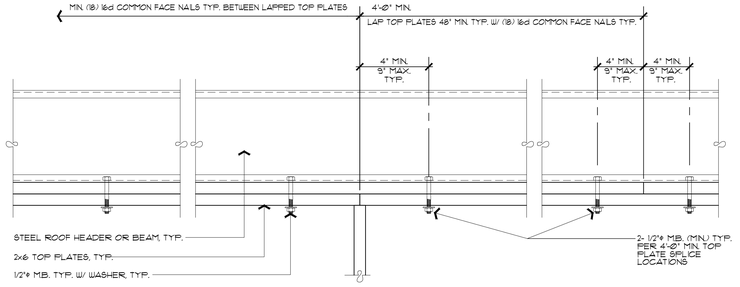
INT. SHEAR WALL ANCHOR @ FLOOR 7A

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



TYP. 4x BLOCKING ATTACHMENT 8

SCALE: 1"=1'-0"



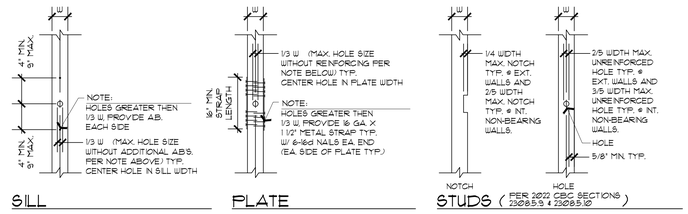
TYPICAL TOP PLATE SPLICE 9

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

NOTE:
NOTCHES AND HOLES IN RAFTERS OR CEILING JOISTS SHALL MEET THE REQUIREMENTS OF SECTION 2308.7.4, CBC 2022

NOTE:
FULL NOTCHING OF PLATES ARE ALLOWED PROVIDED THAT A FASTENER FROM THE PLATE TO A CONT. STEEL MEMBER OCCURS ON EACH SIDE OF THE NOTCH, AND ARE WITHIN A MIN. 4" & MAX. 9" FROM THE NOTCH IN THE PLATE.

NOTE:
FOR HOLES 2/5 WIDTH TO 3/5 WIDTH @ EXT. WALLS, PROVIDE DOUBLE STUDS W/ 16d FACE NAILS @ 24" O.C. TYP. SO LONG AS NOT MORE THAN 2- SUCH SUCCESSIVE DOUBLED STUDS ARE SO BORED. (PER 2022 CBC SECTION 2308.5.10)



NOTCHES AND HOLES IN WOOD FRAMING 10

NOT TO SCALE

NOTES:		
- ALL PLYWOOD NAILING SHOWN ON DETAILS ARE FOR NON-SHEAR WALLS. SEE SHEAR WALL SCHEDULE FOR PLYWOOD NAILING AT SHEAR WALLS. (FOR SHEAR WALLS SCHEDULE, SEE FOUNDATION PLAN)	1/4" TEK SCREWS SHALL BE ITW BUILDEX TEKS SELF-DRILLING FASTENERS (1/4"-28 x 3" LONG HEX WASHER HEAD) TYP. PER ICC REPORT NO. ESR-1976 DATED JULY 2025.	- SEE STRUCTURAL NOTES SHT. S-0.2 FOR TOP PL. TO TOP PL. NAILING TYP. - PROVIDE PRE-DRILLED HOLES TYP. @ SELF-DRILLING SCREWS ONLY IF LUMBER IS SPLITTING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever without the expressed written permission of the Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC. A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. HASHEMI No. 3545 STRUCTURAL STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

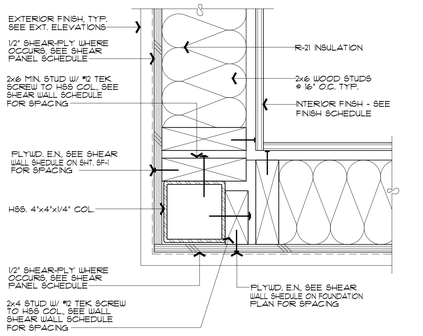
REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

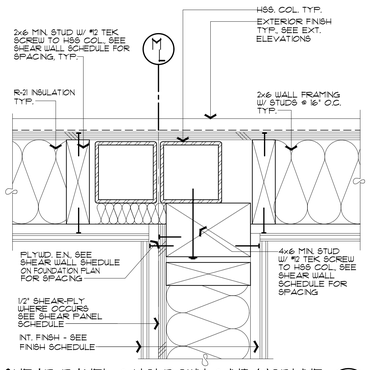
SHEET TITLE
WALL ANCHOR DETAILS

SHEET NO.
S-4



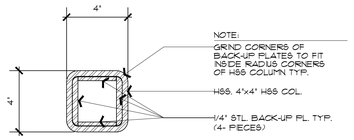
SHEAR PANEL @ BLDG. COL. 20

SCALE: 3"=1'-0"

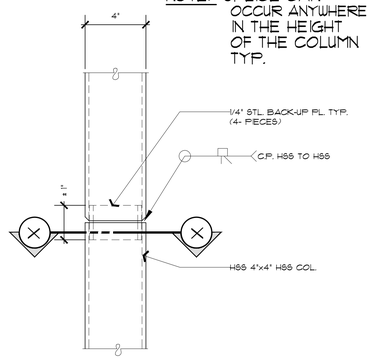


SHEAR PANEL @ HOLDOWN @ INT. MODLINE 21

SCALE: 3"=1'-0"



SECTION @ HSS COLUMN SPLICE



TYPICAL HSS COLUMN SPLICE 22

SCALE: 3"=1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212
(DAVIS)

These documents are the property of the Architect. Meehleis Modular Buildings, Inc., and are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party, without first obtaining the expressed written permission of the Architect. Distribution.

MEEHLEIS
MODULAR
BUILDINGS, INC.
A DESIGN BUILD
COMPANY

1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. MAHRI
No. 3545
STRUCTURAL
STATE OF CALIFORNIA

SIGNED 07-28-2025

MRH Structural Engineers
5400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM
REVISIONS:

07-23-25	DSA CORRECTIONS

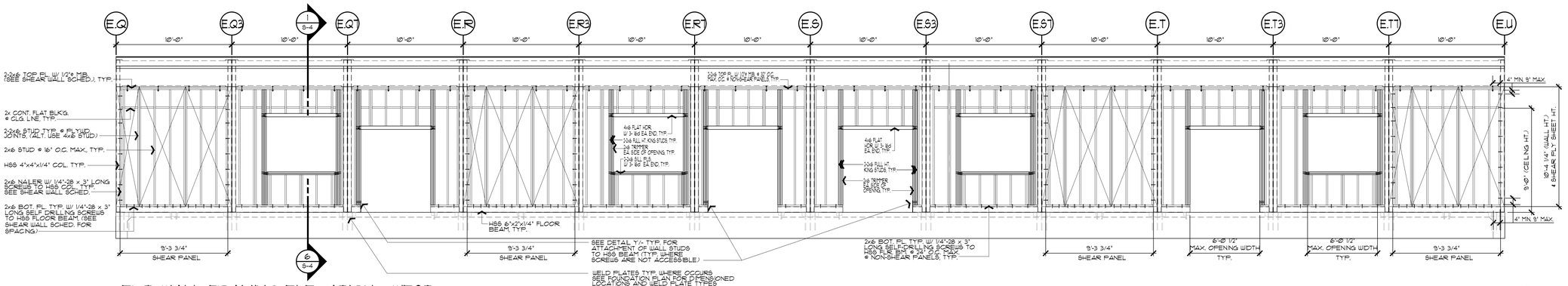
DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE

STRUCTURAL
DETAILS

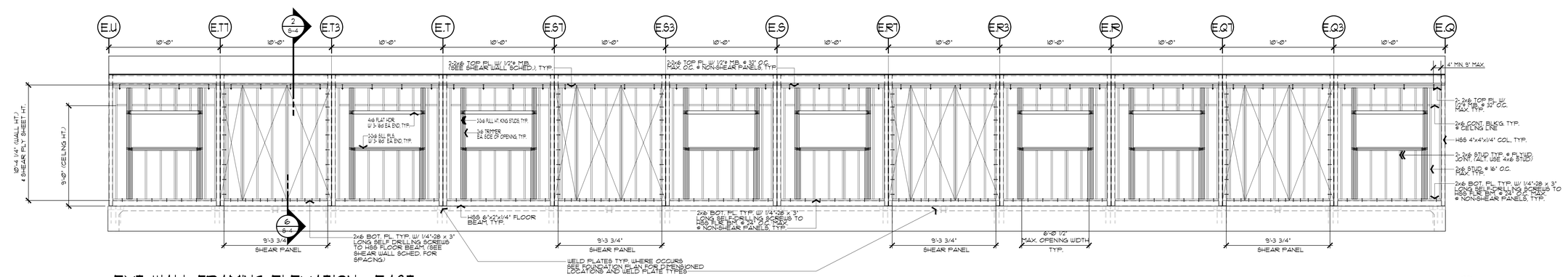
SHEET NO.

S-4.1



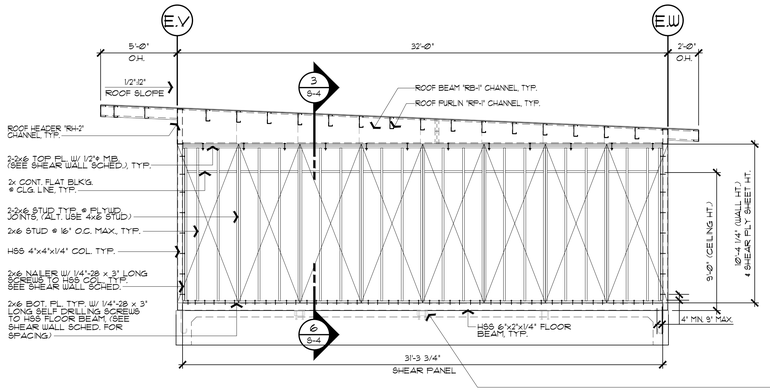
EXT. WALL FRAMING ELEVATION - WEST

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



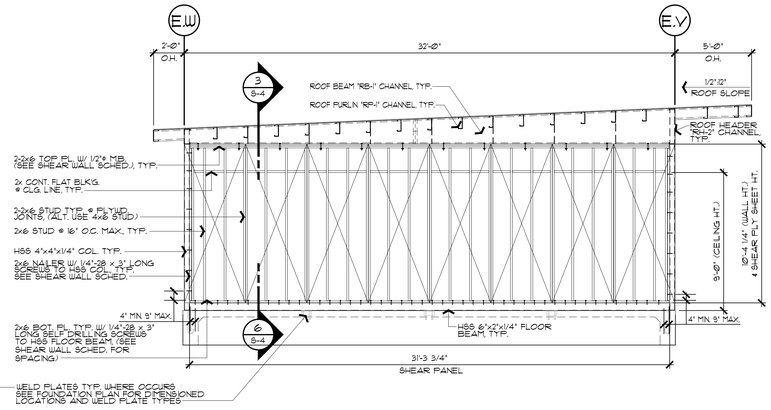
EXT. WALL FRAMING ELEVATION - EAST

SCALE: 1/4"=1'-0" (2)



EXT. WALL FRAMING ELEVATION - SOUTH

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

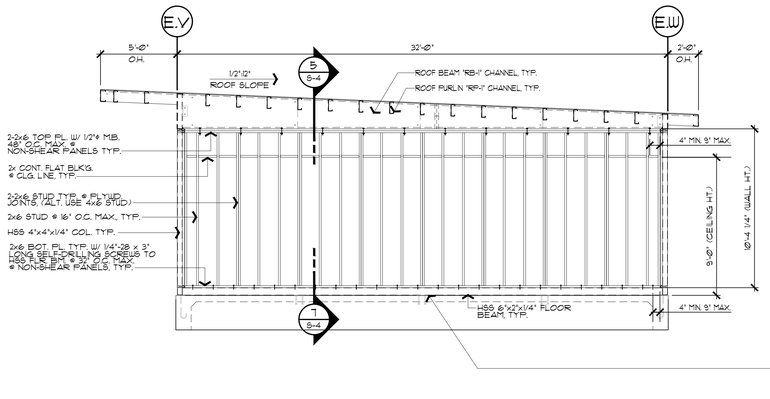


EXT. WALL FRAMING ELEVATION - NORTH

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

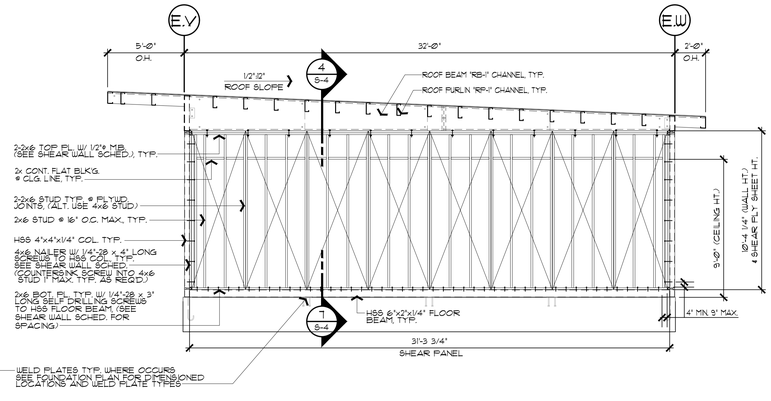
NOTE:

FOR WOOD FRAMED WALLS TIED TO STEEL MEMBERS, KILN DRIED LUMBER 19% MAX. MC SHALL BE USED TYP.



INT. WALL FRAMING ELEVATION - GRIDS "ER" & "ET"

SCALE: 1/4"=1'-0" (5)



INT. WALL FRAMING ELEVATION - GRID "ES"

SCALE: 1/4"=1'-0" (6)

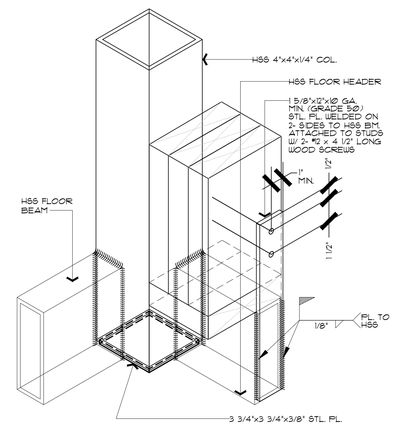


PLATE @ DOOR OPENING NEAR COL.

SCALE: 3"=1'-0" (7)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Architect. Modular Buildings, Inc. and are not to be reproduced, changed or used in any manner whatsoever without the expressed written permission of the Architect. Modification

MEEHLEIS MODULAR BUILDINGS, INC. A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. MARSHI No. 3645 STRUCTURAL STATE OF CALIFORNIA
SIGNED 12-15-2025
MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE
TYPICAL WALL FRAMING ELEVATIONS

SHEET NO.
S-5

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES
DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

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 one acre of land, and are not part of a 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 (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

☒ ☐ **5.106.2 STORMWATER 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 Stormwater 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 postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater 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 stormwater 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% 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.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area 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.

☐ ☒ **5.106.5.3 Electric vehicle (EV) charging**. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section

5.106.5.3.1 EV capable spaces.
[N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:
1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)^2
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total[1]	25% of EV capable spaces[1]

1. Where there is insufficient electrical supply.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS)
EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.
Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N]
Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.
Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:
1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

☒ ☐ **5.106.8 LIGHT POLLUTION REDUCTION. [N].** I 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: [N]

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 [4] (G)					
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING [4] (G)	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 line 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 luminaries 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 point 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 points(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 into 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.

Note: [N]
1.See also *California Building Code,* Chapter 12, Section 1205.6 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 Building 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.
Exception: Additions and alterations not altering the drainage path.

☒ ☐ **5.106.12 SHADE TREES [DSA-SS].** Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade trees plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

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 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modulars Holdings, Inc. and cannot be reproduced except with the written permission of The Modulars Holdings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. FANNEY
No. 3545
STRUCTURAL
STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM
REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE
CALGREEN COMPLIANCE DOCUMENTATION

SHEET NO.
CG-1

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

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:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. 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 U.S. 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 or other 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 than1.8 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 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

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/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

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. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, 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. Excavated soil and land-clearing debris.
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.
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% 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 Sections 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.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris 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.

Notes:

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.
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 OPERATIONS

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 and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:

1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:

1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:

1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32º Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O³/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Building Institute and may not be reproduced or published without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER MUHAMMAD R. YEARWOOD No. 3545 STRUCTURAL STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE

CALGREEN COMPLIANCE DOCUMENTATION

SHEET NO.

CG-2

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

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

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

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

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

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.

TABLE 5.504.4.3 - CONT.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
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[3]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & 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 & 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, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

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 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 Specifications 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

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior 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 Specifications 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

5.504.4.4.2 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 on the interior or exterior of the buildings 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 under 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 Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	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 E 1333. 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 INCHES (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 Specifications 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 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.

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 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.

Exceptions: 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 the 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 (CO_2) 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 (CO2) monitoring in classrooms.
(DSA-SS) 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 (1524 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 1,100ppm. 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 1,100ppm.
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 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 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm 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 CONTROL. 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 requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior 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. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   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 dB L_{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 (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls 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 ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_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 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

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-fouth-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 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 and not 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 ovr 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 heat 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 tha 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.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or used without the expressed permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER MOHAMMAD R. MARRI No. 3545 STRUCTURAL STATE OF CALIFORNIA

SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM

REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775

SHEET TITLE

CALGREEN COMPLIANCE DOCUMENTATION

SHEET NO.

CG-3

COMPLIANCE NOTES

MECHANICAL AND PLUMBING EQUIPMENT SHALL CONFORM TO THE FOLLOWING AS STATED IN THE ENERGY EFFICIENCY STANDARDS, 2022.

1. BE CERTIFIED BY THE MANUFACTURER AS COMPLYING WITH THE EFFICIENCY REQUIREMENTS AS PRESCRIBED IN SECTIONS:

   110.1 APPLIANCES REGULATED BY THE APPLIANCE EFFICIENCY STANDARDS:
   110.2 HVAC EQUIPMENT EFFICIENCY AND PACKAGED CONTROLS:
   110.3 SERVICE WATER HEATING EFFICIENCY AND CONTROLS:
   110.4 POOL AND SPA HEATING EFFICIENCY AND CONTROLS:
   110.5 RESTRICTIONS ON PILOT LIGHTS:

2. BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH SECTIONS.

   120.1 REQUIREMENTS FOR VENTILATION:
   120.2 REQUIRED CONTROLS FOR HVAC SYSTEMS:
   102.2 (H) DEMAND SHED CONTROLS.
   120.2 (I) ECONOMIZER FAULT DETECTION & DIAGNOSTIC.
   120.3 REQUIREMENTS FOR PIPE INSULATION:
   120.4 REQUIREMENTS FOR DUCT INSULATION:
   120.5 REQUIREMENTS FOR MECHANICAL SYSTEMS
   120.8 BUILDING COMMISSIONING
   120.9 REQUIREMENTS FOR COMMERCIAL BOILERS

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

   LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
   MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021
   ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

   A LISTING OF CERTIFIED ATT'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 CONSTRUCTION/INSTALLATION 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.

4. PER 2022 CMC 603.4, FLEXIBLE DUCT MAY NOT EXCEED 5'-0" MAXIMUM LENGTH.

5. PER TITLE 24 SECTION 120.2(f), OUTSIDE AIR DAMPERS SHALL BE INSTALLED TO AUTOMATICALLY CLOSE UPON FAN SHUTDOWN.

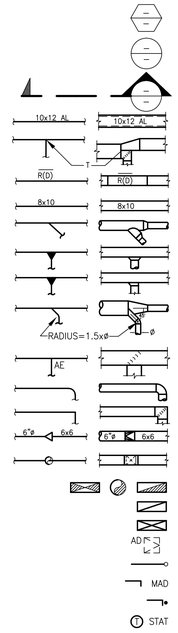
6. PER TITLE 24 SECTION 120.4, ALL JOINTS AND SEAMS IN THE DUCT SYSTEM SHALL BE SEALED USING UL 181 TAPE OR MASTIC. HVAC EQUIPMENT SHALL BE SEALED TO THE RETURN AND SUPPLY PLENUM, DUCTS SHALL BE SEALED TO THE RETURN AND SUPPLY PLENUM, DUCTS SHALL BE SEALED TO THE BOOTS.

7. HORIZONTAL FLEX DUCTS SHALL BE SUPPORTED AT A MAXIMUM OF 4' INTERVALS, WITH HANGING STRAPS MIN. 1-1/2" WIDE. FLEX DUCTS MUST BE PULLED TIGHT WITH A MAX. SAG OF $\frac{1}{2}$"/FT. FLEX DUCTS SHALL NOT BE KINKED OR CRUSHED. FLEX DUCTS SHALL USE A DRAWBAND TO ATTACH THE INNER CORE TO A METAL COLLAR.

8. PER ENERGY CODE SECTION 110.2(b). HEAT PUMPS USING SUPPLEMENTARY ELECTRIC RESISTANCE HEATING MUST USE A THERMOSTAT DESIGNED FOR HEAT PUMPS AND THE THERMOSTAT SHALL BE PROGRAMMED TO PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING.

9. PER ENERGY CODE SECTION 120.2(e) MANUAL OVERRIDE CONTROLS ARE REQUIRED. ALL HVAC SYSTEMS SHALL HAVE A MANUAL OVERRIDE ACCESSIBLE TO THE OCCUPANTS THAT ALLOWS THEM TO TURN ON THE HVAC SYSTEM DURING NORMALLY UNOCCUPIED TIMES. THIS CAN BE A MANUAL OVERRIDE FOR UP TO 4 HOURS, OCCUPANCY SENSOR, OR A 4 HOUR MANUALLY OPERATED TIMER.

MECHANICAL LEGEND



UNIT TYPE
UNIT NUMBER

DETAIL NUMBER
SHEET NUMBER ON WHICH DETAIL IS FOUND

SECTION NUMBER
SHEET ON WHICH SECTION IS FOUND

ACOUSTICALLY LINED DUCT - DIMENSIONS ARE OUTSIDE

BRANCH TAKE-OFF WITH SPLITTER DAMPER & W/ THROAT SIZE AS INDICATED. TRANSITION TO DUCT SIZES SHOWN.

DUCT RISE (DROP) IN DIRECTION OF AIR FLOW

DUCT - WIDTH x DEPTH

LATERAL WITH CONICAL TRANSITION TO DUCT SIZES INDICATED

CONICAL TEE FROM RECTANGULAR TO ROUND BRANCH

45° ENTRY TEE, RECTANGULAR BRANCH, RECTANGULAR MAIN

45° WYE, CONICAL MAIN AND BRANCH WITH 45° ELBOW, BRANCH 90° TO MAIN

TEE WITH ADJUSTABLE EXTRACTOR. RECTANGULAR MAIN, RECTANGULAR BRANCH

RADIUS ELL. SEE SPECS.

SQUARE ELL WITH TURNING VANES

TRANSITION ROUND TO RECTANGULAR

VERTICAL DUCT RISE OR DROP

DUCT DROP OR RISE THRU ROOF OR FLOOR

RETURN, OUTSIDE, OR EXHAUST AIR DUCT

SUPPLY DUCT

ACCESS DOOR

AUTOMATIC CONTROL DAMPER

MANUAL AIR DAMPER

VOLUME DAMPER WITH REMOTE BALANCING DEVICE

THERMOSTAT, MOUNT 48" AFF MAX. TO TOP OF BOX

CO2 SENSOR

DSA EQUIP. ANCHOR. & BRACING NOTES

M/E/P COMPONENT ANCHORAGE NOTES:

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 TRAVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE 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 THE DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK AND ELECTRICAL CONDUIT:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, AND 13.6.8; AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING THE BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED 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: PROJECT SPECIFIC DESIGN

☐ MP ☐ MD ☐ PP ☐ E - OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL

☐ MP ☐ MD ☐ PP ☐ E - OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

MECHANICAL ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ABV	ABOVE
ABC, OH	ABOVE CEILING, OVERHEAD
AC	AIR CONDITIONING
AD	ACCESS DOOR
ADA	AMERICANS W/ DISABILITIES ACT
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
AL	ACOUSTICALLY LINED
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BR	BRANCH
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM, f	CUBIC FEET OF AIR PER MINUTE
CFS	CUBIC FEET PER SECOND
CL	CENTERLINE
CO	CLEANOUT
CONC.	CONCRETE
CONN.	CONNECT
CR	CONDENSATE RETURN (STEAM)
CS	CURRENT SENSOR
CU	CONDENSING UNIT
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CVB	CONSTANT VOLUME BOX
CW	COLD WATER
DB	DRY BULB
DF	DOUGLAS FIR
DIA, ø	DIAMETER
DSP	DUCT STATIC PRESSURE SENSOR
EA, OA, RA, SA	EXHAUST, OUTSIDE, RETURN & SUPPLY AIR
E.C.	ELECTRICAL CONTRACTOR
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FA	FACE AREA (SQUARE FEET)
FC	FLEXIBLE CONNECTION
FLA	FULL LOAD AMPS
FPI	FINS PER INCH
FPM	FEET PER MINUTE
GALV.	GALVANIZED
GA	GAUGE
GC	GENERAL CONTRACTOR
GSM	GALVANIZED SHEET METAL
HP	HORSE POWER
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HZ	FREQUENCY (HERTZ)
LBS	POUNDS
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
MPS	MEDIUM PRESSURE STEAM
(N) (E)	NEW, EXISTING
N.C.	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OP	OPERATING
PH	PHASE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTDF	PRESSURE TREATED DOUGLAS FIR
P&TRV	PRESSURE & TEMPERATURE RELIEF VALVE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R) (D)	RISE, DROP
RD, OFL	ROOF DRAIN, OVERFLOW
REF	ROOF EXHAUST FAN
REQ'D	REQUIRED
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SAD	SEE ARCHITECTURAL DRAWINGS
SED	SEE ELECTRICAL DRAWINGS
SM	SHEET METAL
SMS	SHEET METAL SCREWS
SOV	SHUT OFF VALVE
SS	STAINLESS STEEL
SSD	SEE STRUCTURAL DRAWING
STL	STEEL
TA, FA	TO ABOVE, FROM ABOVE
TB, FB	TO BELOW, FROM BELOW
TBR	TO BE REMOVED
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
THK	THICK
TR	TO REMAIN
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANES
TYP	TYPICAL
UG, UF	UNDERGROUND, UNDER FLOOR
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
VAC	VOLTS ALTERNATING CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
WB	WET BULB
WG	WATER GAUGE
WOG	WATER OIL GAS PRESSURE RATING
WP	WATER PRESSURE
WPD	WATER PRESSURE DROP
WT, AT	WATERTIGHT, AIRTIGHT

DIFFUSER, REGISTER, & GRILLE SCHEDULE

EXAMPLE OF CALLOUT: SIZE — 8 x 8 CD1 — TYPE; 8" - 240f; SIZE OF BRANCH DUCT TO DIFFUSER; BALANCE TO CFM INDICATED

SYMBOL	DESCRIPTION
CD1	CEILING DIFFUSER - 1 "TITUS" MODEL MCD, MODULAR CORE, STEEL CONSTRUCTION, FRAME TYPE 3 FOR T-BAR INSTALLATION. DIFFUSER, SIZE AND BLOW PATTERN AS INDICATED ON DRAWINGS. FURNISH WITH AG-95 OPPOSED BLADE DAMPER AND OFF-WHITE FINISH.
R1	RETURN REGISTER - 1 "TITUS" MODEL 50F, ½"x½"x1" EGG-CRATE GRID, ALUMINUM CONSTRUCTION, FRAME TYPE 3 FOR T-BAR INSTALLATION, OPPOSED BLADE DAMPER, OFF-WHITE PAINT, SIZE AS INDICATED ON DRAWINGS.

APPLICABLE CODES

CODES:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

A) STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, BUILDING STANDARDS:
   2022 EDITION OF THE CALIFORNIA BUILDING CODE.
   2022 EDITION OF THE CALIFORNIA ELECTRICAL CODE.
   2022 EDITION OF THE CALIFORNIA MECHANICAL CODE.
   2022 EDITION OF THE CALIFORNIA PLUMBING CODE.
   2022 EDITION OF THE CALIFORNIA ENERGY CODE.

B) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 2021 EDITION 101 LIFE SAFETY CODE

PACKAGED ROOFTOP HEAT PUMP UNIT

SYMBOL	MANUFACTURER	MODEL	NOMINAL TONS	COOLING CAPACITY						FAN		HEATING CAPACITY				SUPPLEMENTAL HEAT	UNIT ELECTRICAL					POWER EXHAUST ELECTRICAL				OPERATING WEIGHT LBS.	REMARKS
				TOTAL MBH	SENSIBLE MBH	EDB °F	EWB °F	AMB °F	EER @ ARI	CFM	ESP IN WG	TOTAL INTERGRATED MBH	AMB °F	EDB °F	COP	KW	VOLTS	PHASE	HZ	MCA	MOCP	VOLTS	PHASE	HZ	FLA		
HP 1	LENNOX	LHT048H5 EC1Y	4	44.3	34.8	80	67	105	12.0	1600	0.5	26.3	30	62	3.5	7.5	208	3ø	60	45	50	208	3ø	60	3.9	800	PROVIDE PELICAN TITLE 24 COMPLIANT PROGRAMMABLE DIGITAL TOUCH-SCREEN THERMOSTAT WITH LOCKING COVER AND SUB-BASE. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETL MODULATING CENTRIFUGAL POWER EXHAUST, MODEL PCD FL.HA-2L, ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS AND COIL GUARD. PROVIDE MASON ISC 2" DEFLECTION PRESLOPED ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCHES. MODULATING EXHAUST NEEDS TO MAINTAIN BUILDING PRESSURE OF 0.03 in-WC. MERV-13 DISPOSABLE FILTER
HP 2	LENNOX	LHT048H5 EC1Y	4	44.3	34.8	80	67	105	12.0	1600	0.5	26.3	30	62	3.5	7.5	208	3ø	60	45	50	208	3ø	60	3.9	800	PROVIDE PELICAN TITLE 24 COMPLIANT PROGRAMMABLE DIGITAL TOUCH-SCREEN THERMOSTAT WITH LOCKING COVER AND SUB-BASE. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETL MODULATING CENTRIFUGAL POWER EXHAUST, MODEL PCD FL.HA-2L, ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS AND COIL GUARD. PROVIDE MASON ISC 2" DEFLECTION PRESLOPED ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCHES. MODULATING EXHAUST NEEDS TO MAINTAIN BUILDING PRESSURE OF 0.03 in-WC. MERV-13 DISPOSABLE FILTER
HP 3	LENNOX	LHT048H5 EC1Y	4	44.3	34.8	80	67	105	12.0	1600	0.5	26.3	30	62	3.5	7.5	208	3ø	60	45	50	208	3ø	60	3.9	800	PROVIDE PELICAN TITLE 24 COMPLIANT PROGRAMMABLE DIGITAL TOUCH-SCREEN THERMOSTAT WITH LOCKING COVER AND SUB-BASE. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETL MODULATING CENTRIFUGAL POWER EXHAUST, MODEL PCD FL.HA-2L, ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS AND COIL GUARD. PROVIDE MASON ISC 2" DEFLECTION PRESLOPED ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCHES. MODULATING EXHAUST NEEDS TO MAINTAIN BUILDING PRESSURE OF 0.03 in-WC. MERV-13 DISPOSABLE FILTER
HP 4	LENNOX	LHT048H5 EC1Y	4	44.3	34.8	80	67	105	12.0	1600	0.5	26.3	30	62	3.5	7.5	208	3ø	60	45	50	208	3ø	60	3.9	800	PROVIDE PELICAN TITLE 24 COMPLIANT PROGRAMMABLE DIGITAL TOUCH-SCREEN THERMOSTAT WITH LOCKING COVER AND SUB-BASE. COORDINATE REQUIREMENTS WITH POWERED EXHAUST MODULE. PROVIDE TITLE 24 COMPLIANT MICROMETL MODULATING CENTRIFUGAL POWER EXHAUST, MODEL PCD FL.HA-2L, ULTRA LOW LEAK ECONOMIZER. POWERED EXHAUST TO BE POWERED SEPARATELY FROM ROOFTOP UNIT. PROVIDE HINGED ACCESS PANELS AND COIL GUARD. PROVIDE MASON ISC 2" DEFLECTION PRESLOPED ISOLATION CURB OSHPD OPA-0468. SEE ELECTRICAL DRAWINGS FOR DISCONNECT SWITCHES. MODULATING EXHAUST NEEDS TO MAINTAIN BUILDING PRESSURE OF 0.03 in-WC. MERV-13 DISPOSABLE FILTER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings. They shall not be reproduced, changed or copied in any form or by any means whatsoever, nor assigned to any third party without first obtaining the express written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
BRYANT J. PROFFITT
No. M030446
Exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

TURLEY & ASSOCIATES | MECHANICAL ENGINEERING GROUP, INC.
1760 Creekside Oaks Drive, Suite 120, Sacramento, CA 95833
(916) 325-1999 FAX: (916) 325-1076 Email: office@turleymech.com

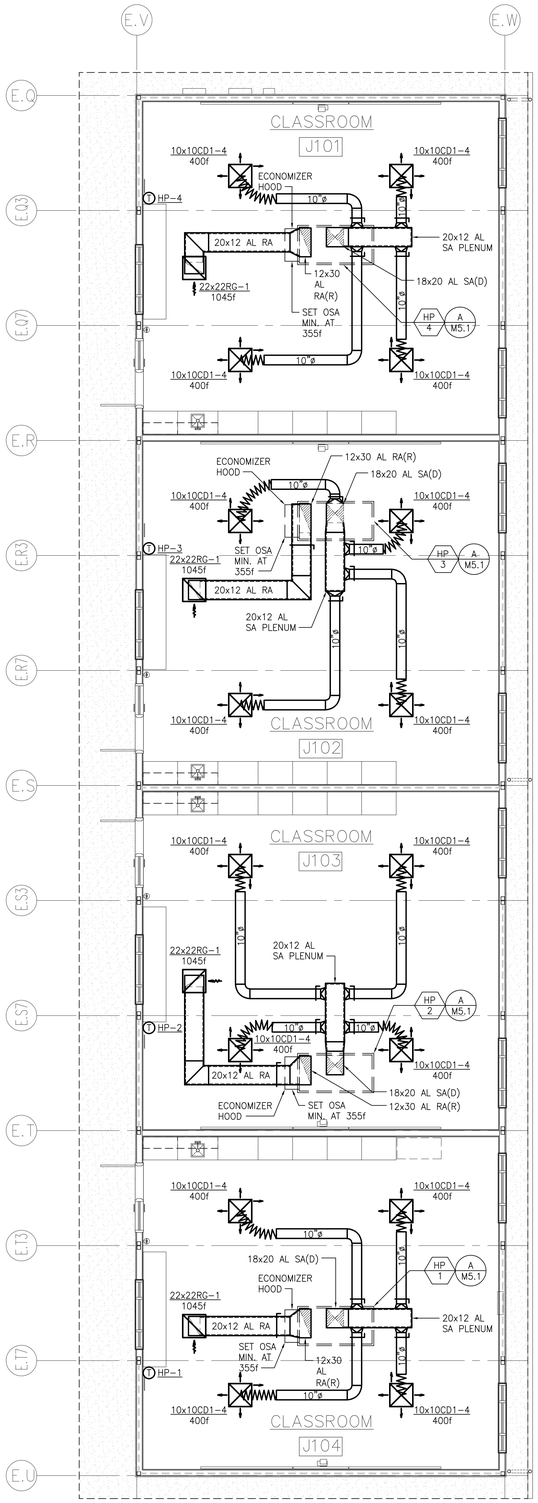
Project Engineer:	BP	Job Number:	25125
Project Manager:	NS	Plot Date: Feb 17, 2026 - 12:09pm	
Project Drafter:	ZH	Login: MShah	

DRAWN: T&A
CHECKED: T&A
REVISIONS:

DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE
MECHANICAL LEGEND, SCHEDULES AND NOTES

SHEET NO.
M0.1



A MECHANICAL FLOOR PLAN

SCALE: 3/16" = 1'-0"

PROJECT NORTH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modern Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Modular Manufacturer.

MEEHLEIS
MODULAR
BUILDINGS, INC.
A DESIGN BUILD
COMPANY

1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
BRIAN J. PROVENCAL
No. M030446
Exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

TURLEY & ASSOCIATES
MECHANICAL ENGINEERING GROUP, INC.
1760 Creekside Oaks Drive
Suite 120
Sacramento, CA 95833
(916) 325-1000
FAX: (916) 325-1010
Email: office@turleymech.com

Project Engineer:	BP	Job Number:	25125
Project Manager:	NS	File Date: Mar 27, 2025 - 1:32pm	
Project Drafter:	ZH	Login: Zhaman	

DRAWN: T&A
CHECKED: T&A

REVISIONS:

-	-

DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE

MECHANICAL
FLOOR PLAN

SHEET NO.

M2.1

readings, summary of fan CFM delivery rates, static pressure ratings, motor ampere input, and general summary of test results. Specified ratings and motor nameplate ratings shall be listed with measured readings.

G. Instruments used for testing and balancing of systems shall have been calibrated within a period of six (6) months and shall be checked for accuracy prior to start of work.

H. Three (3) copies of complete test report shall be submitted prior to final acceptance of project.

I. Tabulate magnetic starters size, type, and manufacturer with heater strip size, type and rating along with motor nameplate data.

J. Air balance shall be achieved using variable fan speeds.

K. Adjust single or double deflection registers and variable pattern diffusers to evenly distribute air within the conditioned space. The terminal air velocity at 5' above the floor shall not exceed 50 FPM in normal air conditioned spaces.

L. Measure the ampere reading of each motor input after final adjustments have been made.

3.09 EQUIPMENT MOUNTING:

A. Mounting and anchorage of equipment shall be in strict compliance with drawings details. Alternate anchorage methods will not be considered for roof mounted equipment.

END OF SECTION

M. Ducts shall clear combustible construction by 1" minimum.

N. Seal airtight transverse seams of all supply and return ducts. Refer to Mechanical General Requirements specifications. Duct leakage shall not exceed 1%.

O. Provide Ventlok #699 test hole fittings where indicated or specified.

3.05 DAMPERS:

A. All dampers automatically controlled by damper motors are specified under "Temperature Control System" except those specified with items of equipment.

B. Provide opposed blade manual air dampers at each branch duct connection and at locations indicated on the drawings and where necessary to control air flow for balancing system. Provide Ventlok regulators. Provide an opposed blade balancing damper in each zone supply duct. Damper blades shall be 16 gauge minimum galvanized steel with 3/8" minimum shaft, and 10" maximum blade width. Provide an access panel or Ventlok flush-type damper regulator on ceiling or wall for each concealed damper.

C. Install fusible link fire dampers full size of duct at points where shown or required.

D. Provide 18" x 12" minimum access doors in ductwork and furring for easy access to each fire damper; insulated access doors in insulated ducts. Label access doors with 1/2" high red letters.

1. Provide Ventlok access doors with Series 100 hardware for convenient access to all automatic dampers and other components of the system, insulated type in insulated ducts. Provide Ventlok #202 for light duty up to 2" thick doors, #260 heavy duty up to 2"k thick doors and #310 heavy duty for greater than 2" thick doors. Provide #260 hinges on all hinged and personnel access doors, include gasketing.

3.06 AIR INLETS AND OUTLETS:

A. Provide all air inlets and outlets with gaskets and install so that there will be no streaking of the walls or ceilings due to leakage. Duct connection to outlet on exposed duct shall be full size of outer perimeter of outlet flange. Support each ceiling diffuser with four wires from overhead construction per Title 24 and secure to ceiling framing system with two concealed screws at opposite sides.

B. Furnish all air inlets and outlets with a baked prime coat unless otherwise noted. Provide off-white baked enamel finish on ceiling-mounted air inlets and outlets. Exposed mounting screws shall be painted to match the material being secured.

C. Air inlets and outlets shall match all qualities of those specified including appearance, throw, noise level, adjustability, etc.

3.07 EQUIPMENT CHECK, TEST AND START:

A. The check, test and start of each air conditioning unit, make-up air unit, air handler unit and gas unit heater shall be performed by a specialized company, Aircon Service, Commercial Air, or equal, acting as a subcontractor to the air conditioning contractor. The company selected shall have had excerience on similar projects and shall have demonstrated by past performance that the personnel are qualified to do such work. The firm selected shall have approval of the Architect prior to start of work.

B. The company shall provide all personnel, test instruments, and equipment to properly perform the check, test and start.

C. The check, test and start of each item of equipment shall be in accordance with manufacturer's printed instructions. Three (3) copies of the completed check, test and start report of each item of equipment shall be bound with the operating and maintenance instructions.

D. Upon completion of the work, provide a schedule of planned maintenance indicating frequency of service for all equipment components. Post schedule where directed under plastic.

3.08 TESTING AND BALANCING (SMALL AND MEDIUM SIZE; INDEPENDENT TEST):

A. Obtain the service of an independent test and balance agency that specialized in, and whose business is limited to, testing and balancing of air conditioning systems.

B. Coordinate work done by testing and balancing agency with work of other trades.

C. Testing and balancing agency, as a part of its contract, shall act as authorized inspection agency and shall report any discrepancies or items not installed in accordance with Contract Drawings and/or Specifications pertaining to air and water distribution, and exhaust systems.

D. Contractor shall provide for adjustments and/or additions or modifications to fan and motor sheaves, belts, damper linkages and the like to achieve proper air balance at no additional cost.

E. Testing and balancing shall be performec in complete accordance with AABC National Standards for Field Measurement and Instrumentation, Volume Four. Testing and balancing shall be performed on air distribution system, chilled water system, condenser water system, heating water system, and domestic water system.

F. Balance air quantities of supply and exhaust to achieve those given on Drawings. Measure the total air quantity at each fan. Measure the total air quantity at each supply fan with maximum outside air and with minimum outside air. Measure the ampere reading of each motor input after final adjustments have been made. Provide static pressure profile for each air moving equipment. Upon satisfactory completion of balance and operational test, submit three (3) sets of reports to the Architect on balance final

2.05 VIBRATION ELIMINATOR RAILS:

A. Provide Kinetics or equal vibration eliminator rails as specified on the drawings.

PART 3 - EXECUTION

3.01 EQUIPMENT START-UP:

A. Initial start-up of supply, exhaust and return fan systems and pumps shall be under the direct supervision of the Testing and Balancing Contractor.

3.02 PIPING:

A. Refrigerant Piping: Extreme care shall be taken to keep the entire system clean and dry during installation. All lines shall be straight and free from kinks, restrictions or traps; horizontal suction lines shall be sloped toward compressor, 1" to 10'. For pre-fab line sets, all tubing shall be evacuated and sealed at the factory. The seal must not be broken until ready for assembly. If there is any evidence of dust, moisture, or corrosion, the tubing must be cleaned out by drawing a swab soaked with methyl alcohol through the tubing as many times as necessary to thoroughly clean the tubing.

B. All piping under suspended floors shall be kept 6" minimum above ground; excavate as necessary.

3.03 FILTERS:

A. Mount filters in airtight frames furnished by the filter manufacturer, and install in accordance with manufacturer's recommendations.

B. Provide temporary filters for all fans that are operated during construction; after all construction dirt has been removed from the building install new filters at no additional cost to the Owner.

C. Identify each filter access door with 1/2" high minimum stenciled letters.

3.04 SHEET METAL WORK:

A. Construct and install all sheet metal in accordance with latest SMACNA recommendations for 2" static pressure (**REVISE FOR EACH JOB**). Provide variations in duct size, and additional duct fittings as required to clear obstructions and maintain clearances, as approved by the Architect, at no extra cost to Owner.

B. Provide drive slip or equivalent flat seams for ducts exposed in the conditioned space or where necessary due to space limitations. On ducts with flat seams, provide standard reinforcing on inside of duct. Duct connection to outlet on exposed duct shall be full size of outer perimeter of outlet flange.

1. Ducts exposed in the conditioned space shall be free of dents and blemishes and be mounted tight against adjacent surface with flat hangers.

2. All ductwork, adhesives, lining, sealants, flex duct and the like shall have a flame spread of 25 or less and developed smoke rating of 50 or less when tested in accordance with ASTM E84.

C. Round ducts with equivalent effective cross sectional area as determined by ASHRAE Guide, latest edition, may be used in lieu of concealed rectangular ducts shown, space permitting. Round and oval sheet metal ducts shall be spiral lock seam or longitudinal construction seam construction. Fittings shall be continuous weld or spot weld and seal. United Sheet Metal, SEMCO, or equal.

D. The throat radius of all bends shall be 1-1/2 times the width of the duct wherever possible and in no case shall the throat radius be less than one width of the branch duct. Provide square elbows with Titus or HEP double thickness turning vanes where space does not permit the above radius, or where square elbows are shown.

E. The slopes of transitions shall be approximately one to five unless shown otherwise, and no abrupt changes or offsets of any kind in the duct system shall be permitted.

F. Provide sheet metal angle frame at all duct penetrations to wall, floor, or ceiling. Seal ductwork watertight at equipment room floor.

G. All round ductwork shall be United Sheet Metal spiral duct and fittings. Assemble with USM duct sealer and sheet metal screws.

H. Provide Ventlon flexible connections on inlet and outlet of AC Unit, air handler, and heating/evaporative cooler unit. Provide galvanized weather hood over flexible connections exposed to the weather.

I. Duct size shown on lined duct is the outside dimension.

J. Paint inside of ducts, visible through grille, dull black.

K. Flexible ducts shall be Thermaflex M-KE secured with worm gear bands. Maximum length of flexible duct shall be 5'-0". Support flexible ducts at 30" maximum with 1-1/2" x 24 gauge straps. Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of CMC Standard No. 6-1. Each portion of a factory-made air duct system shall be identified by the manufacturer with a label or other suitable identification indicating compliance with CMC Standard No. 6-1 and its class designation. These ducts shall be UL listed Class 1, 25/50 smoke and flame spread and shall be installed in accordance with the terms of their listing. Omit external insulation. Duct installed R value shall be R-8. R-5.2 may be used where ductwork is located within fully insulated envelope in accordance with Title 24 regulations.

L. Provide lateral bracing per Section 23 05 00.

SECTION 23 05 10
HEATING, VENTILATING AND AIR CONDITIONING

Conditions of the Contract and Division 01 apply to this Section.

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

A. The requirements of the General Conditions and Division 01 apply to all work hereunder, also applicable provisions of Section 23 05 00 MECHANICAL WORK - General Requirements.

B. Drawings and general provisions of the Contract, including general and supplementary conditions apply to the work of this Section.

1.02 DESCRIPTION OF WORK:

A. Furnish and install all heating, ventilating and air conditioning work indicated on the drawings and described herein. Also any incidental work not shown or specified that is necessary to provide the complete system.

1.03 COORDINATED LAYOUTS:

A. Contractor shall provide 1/4" equals one foot scaled coordination drawings showing plan and pertinent section views of all piping, ductwork and electrical systems. Drawings shall be on bond and the work represented shall be fully coordinated with the structure, other disciplines, and with all finishes. Obtain CADD file from Engineer of Record. for use by mechanical contractor. Since scale of contract drawings is small and all offsets and fittings are not shown, contractor shall make allowances in bid for additional coordination time, detailing, fittings, offsets, hangers and the like to achieve a fully coordinated installation. If changes in duct size are required, equivalent area shall be maintained and the aspect ratio shall not be in excess of 2 to 1 unless approved by the engineer. Drawings shall be submitted for review prior to fabrication and installation. Drawings may be submitted in packages representing at least 1/4 of the building ductwork.

B. Check routing on all ductwork before fabricating. Report any discrepancies to Architect. No extra cost will be allowed for failure to conform to above.

C. It shall be responsibility of Heating, Ventilating and Air Conditioning Contractor to coordinate the other mechanical and electrical trades so that complete job is neat and in conformity with plans and specifications.

1.04 PLUMBING:

A. All plumbing work required in the course of this contract shall be performed in strict accordance with all codes and regulations. Plumbing work done under this contract

shall not adversely affect the operation of the existing plumbing systems. All materials shall be new and shall match existing.

PART 2 - PRODUCTS (OR MATERIALS)

2.01 PIPE AND FITTINGS:

A. See General Requirements section for dielectric fittings and pipe protection.

B. Water drain, or gas connections to equipment shall match connected piping.

C. Condensate Drain Piping: Type DWV copper tubing and fittings or Schedule 40 galvanized steel pipe and cast iron drain or vent fittings.

D. Refrigeration Piping: Refrigeration gas and liquid piping shall be Type "L" hard drawing copper tubing with wrought copper fittings. All joints shall be made with Sil-fos. Relief valve discharge piping shall be full size of relief discharge, Schedule 40 steel pipe and malleable fittings, all galvanized if exposed to the weather. Furnish and install Superior, Sporian, Alco, Henry, or equal, stop valves, solenoid valves, adjustable thermal expansion valves, sight glass, flexible connection, charging valve, and drier with valve bypass in the liquid lines and Superior DFN shell and cartridge suction line filter sized 2-1/2 times tonnage.

2.02 FILTERS:

A. Filters shall be 2" thick Farr 30/30, or 1" or 2" throwaway as scheduled on the drawings.

B. Air filters shall be of an approved type tested in accordance with test method SFM-12-71-1 as shown in Part 12, Title 24, California Code of Regulations. Preformed filters having combustible framing shall be tested as a complete assembly.

C. Air filters in all occupancies shall be Class 2 or better as defined in the test method above.

D. Air filters shall be accessible for cleaning.

E. Air filters shall be SFM listed.

2.03 DAMPERS:

A. Backdraft Dampers: Ruskin CBD2, counterbalanced.

B. Manual Air and Balance Dampers: Ruskin CD35, opposed blade.

2.04 DUCTWORK:

A. Galvanized Sheet Metal, See Part 3.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever nor assigned to any third party without first obtaining the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
BRYANT J. PROVENCAL
No. M030446
Exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

TURLEY & ASSOCIATES | MECHANICAL ENGINEERING GROUP, INC.
1390 Creekside Oaks Drive
Suite 120
Sacramento, CA 95833
(916) 525-1666
FAX: (916) 525-1670
Email: office@turleymech.com

Project Engineer:	BP	Job Number:	25125
Project Manager:	NS	Plot Date: Mar 27, 2025 - 1:33pm	
Project Drafter:	ZH	Login: Zhenhao	

DRAWN: T&A
CHECKED: T&A
REVISIONS:

-	-

DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE
MECHANICAL SPECIFICATIONS

SHEET NO.
M4.1

SECTION 23 05 00
MECHANICAL WORK - GENERAL REQUIREMENTS

Conditions of Contract and Division 1 apply to this Section.

PART 1 - GENERAL

1.01 INCLUSIONS:

A. This section applies for all Division 21, 22, and 23 mechanical sections. All conditions and materials are pertinent to the other sections as if repeated in those sections.

B. Furnish and install any incidental work not shown or specified which is necessary to provide a complete and workable system.

1.02 DRAWINGS:

A. Examine all Drawings prior to bidding of work and report any discrepancies in writing to the Architect.

B. Drawings showing location of equipment, piping, ductwork, etc., are diagrammatic and job conditions will not always permit their installation in the location shown. The Mechanical Drawings show the general arrangement of all piping, ductwork, equipment, etc., and shall be followed as closely as existing conditions, actual building construction and the work of other trades will permit. The Architectural and Structural Drawings shall be considered a part of the work insofar as these Drawings furnish the Contractor with information relating to design and construction of the building. Architectural Drawings shall take precedence over Mechanical Drawings. Because of the small scale of the Mechanical Drawing, it is not possible to indicate all offsets, fittings and accessories which may be required. The Contractor shall investigate the structural and finish conditions affecting the work and shall arrange his work accordingly providing such fittings, valves and accessories as may be required to meet conditions. When job conditions do not permit installation of equipment, piping, ductwork, etc., in the locations shown, it shall be brought to the Architect's attention immediately and the relocation determined in a joint conference. Contractor will be held responsible for the relocation of any items without first obtaining the Architect's approval. Contractor shall remove and relocate such items at his own expense if so directed by the Architect.

C. Execute work mentioned in the Specifications and not shown on the Drawings, or vice versa, the same as if specifically mentioned in both.

1.03 CODES:

A. Provide all work and materials in full accordance with the latest rules and regulations of the California Code of Regulations (CCR), Title 21, Title 22, and Title 24, as applicable; Safety Orders of the Division of Industrial Safety, (Cal OSHA); the California Electric Code; the California Plumbing Code; the California Building Code; California Mechanical Code; State Fire Marshal; and other applicable laws or regulations. Nothing in these plans or specifications is to be construed to permit work not conforming to these codes. Furnish without extra charge, any additional material and labor required to comply with these rules and regulations.

B. Where material or equipment is specified to conform to standards such as American Society of Testing and Materials (ASTM), Underwriters' Laboratories, Inc., (UL), American National Standards Institute (ANSI) and the like, it shall be assumed that the most recent edition of the standard in effect at the time of bid shall be used.

1.04 FEES AND PERMITS:

A. Procure and pay for all permits and licenses required.

1.05 FRAMING, CUTTING AND PATCHING:

A. Special framing, recesses, chases and backing for work of this section, unless specified otherwise, is covered under other sections. Be responsible for proper placement of all pipe sleeves, hangers and supports and location and sizing of openings for work of this section.

1.06 SUBSTITUTIONS AND MATERIAL LIST:

A. Product names are used as standards of quality, items furnished as standard on specified equipment shall be furnished on all substituted equipment at no extra cost to the contract regardless of disposition of submittal data; other materials or methods shall not be used unless approved in writing by the Architect. The burden of proof as to the equality of any proposed material shall be upon the Contractor; Architect's decision is final. Only one request for substitution shall be considered for each item. Equipment capacities specified are minimum acceptable. Submittals will not be accepted until compliance with the requirements of Contract Documents has been confirmed by the Contractor.

B. Unless stipulated otherwise in General Conditions and Division 1, submit a list of 7 copies of materials for approval within 35 days after the award of the Contract. It shall be accompanied by shop drawings, pump performance curves, fan curves, and other pertinent data, showing the size and capacity of the proposed materials. All materials to be used, whether substitutions or not, shall be listed in the order in which they appear in the specifications.

C. Any mechanical, electrical, structural or other changes required for the installation of any approved substituted equipment shall be made to the satisfaction of the Architect and without additional cost to the Owner. Approval by the Architect of the substituted equipment and/or dimensional drawings does not waive these requirements. Upon request, submit drawings of mechanical equipment spaces showing substituted equipment before installation.

D. Review of material shall not be construed as authorizing any deviations from the specifications unless the attention of the Architect has been directed to the specific deviations.

E. Furnish to the Project Representative, upon request, complete installation instructions on all materials and equipment before starting installation of same.

F. Submittals shall bear the specification reference or drawing location where they are specified. Submittals shall not be accepted in incomplete form. Submittals shall be organized into booklets for each specification section and submitted in indexed loose leaf binders with notation when it is a deviation from the specifications.

G. Have fire damper installation instructions available at the site during construction for use by the inspector.

1.07 SITE CONDITIONS:

A. Information on the drawings relative to existing conditions is approximate only. Deviations found necessary during progress of construction to conform to actual conditions, as approved by the Architect, shall be made without additional cost to the Owner. The Contractor shall be held responsible for any damage caused to existing services. Promptly notify the Architect if services are found which are not shown on drawings.

1.08 GUARANTEE:

A. Repair or replace any defective work, materials or part which may appear within 1 year of the date of acceptance. This shall include damage by leaks.

B. On failure to comply with the above guarantee within a reasonable length of time after notification is given, the Architect shall have the repairs made at the Contractor's expense.

1.09 MAINTENANCE AND OPERATING INSTRUCTIONS:

A. Instruct the Owner's authorized representatives in operation, adjustment and maintenance of all mechanical equipment and systems. Provide three copies of certificate signed by Owner's representatives attesting to their having been instructed.

B. Furnish three complete sets of operating and maintenance instructions bound in a hardback binder and indexed. Start compiling the data upon approval of list of materials. Final observation will not be made until booklets are approved by Architect.

C. These sets shall incorporate the following:

1. Complete operating instructions for each item of heating, ventilating, air conditioning and plumbing equipment.
2. Test data and air and water balancing reports as specified.
3. Typewritten maintenance instructions for each item of equipment listing in detail the lubricant to be used, frequency of lubrication, inspections required, adjustment, etc.
4. Manufacturer's bulletins with parts numbers, instructions, etc., for each item of equipment, properly stripped and assembled.
5. Temperature control diagrams and literature.

6. A complete list or schedule of all major valves giving the number of the valve, location and the rooms or area controlled by the valve. Identify each valve with a permanently attached metal tag stamped with number to match schedule. Post list in frame under plastic on wall in mechanical room or where directed.

1.10 SCHEDULE OF WORK:

A. All temporary connections required to maintain services, including adequate heat and cooling, during the course of this Contract shall be made without additional cost to the Owner. The normal function of the building must not be interrupted; notify the Owner seven (7) days in advance before disturbing any service.

1.11 RECORD DRAWINGS:

A. Upon completion of the work and as a precedent to final payment, deliver to the Architect originals of all Drawings showing the work exactly as installed. Also deliver to the Architect one complete set of reproducibles of all Drawings showing the work exactly as installed. All Record Drawings shall be signed by the Contractor verifying their accuracy.

1.12 DELIVERY AND STORAGE:

A. All equipment, ducting and piping delivered to site shall be protected from the weather, humidity and temperature variations, dirt and dust and other contaminants.

PART 2 - PRODUCTS (OR MATERIALS)

2.01 GENERAL:

A. Materials or equipment of the same type shall be of the same brand wherever possible. All materials shall be new and in good condition.

2.02 ELECTRIC MOTORS:

A. Shall be Allis-Chalmers, General Electric, Gould, Lincoln, or equal, selected for quiet operation. Furnish motors with splashproof or weatherproof housings, where required or recommended by the manufacturer. Match the nameplate voltage rating with the electrical service supplied. Check electrical drawings. Provide a transformer for each motor not wound specifically for system voltage. The minimum efficiencies shall be as defined by IEEE 112 Test Method B and NEMA Standard MGI-112-53B.

2.03 MOTOR STARTERS:

A. Furnish starters with the proper size thermal overload units, ambient compensated. Provide 3-phase motor starters with 3-phase overloads. Magnetic starters shall have Hand-Off-Automatic switches and control transformers furnished integral with the starter when starter is serving an automatically controlled motor. Starters shall be Square D, Allen Bradley, or equal, in NEMA Type I enclosure inside and NEMA Type IIIR outside as required. Minimum starter size shall be 1.

2.04 VALVES AND FITTINGS:

A. Valves: Shall be DeZurik, Crane, Nibco, Kennedy, or equal.

1. Gate Valves thru 2-1/2" -- Crane #428, Kennedy #427, Nibco #T-595.
2. Check Valves 2-1/2" and smaller -- Muessco #203BP, Crane #36, Nibco #T-413.
3. Valves in the ground shall be Crane #2487-1/2-0, Mueller #A-2360-21 or equal, and shall be installed in Christy Concrete Products #F1 valve box with C210 C.I. lid, Books #1-RT box with #1-RT C.I. lid or equal. Nut operated valves in Alhambra Foundry Co. #A-3004 or equal access boxes marked for service. Provide a tee handle wrench for each size. Set access boxes in 4" thick concrete pad, trowel smooth and edge, set flush with grade. Water service valve in ground shall be AWWA, 200 psi, nut operated.
4. Valves in copper lines shall be furnished with adapters, or may be solder joint type of equal quality to screw type valves.
5. Ball Valves -- Worcester #411TS, Nibco #T-560, 2" maximum. On insulated piping provide Nibco CS extended lever handle. For natural gas and LPG provide Nibco T-585-70-UL, two piece, UL842 and CSA listed.

B. Unions and Flanges:

1. Steel 2" and smaller -- 150# screwed black or galvanized malleable iron, match pipe, ground joint, brass-to-iron seat.
2. Steel 2-1/2" and larger -- 150# black flange union, flat faced, full gasket.
3. Copper or brass pipe or tubing 2" or smaller -- 150# cast bronze ground joint, bronze-to-bronze seat with copper-to-copper end connections.
4. Copper or brass pipe or tubing 2-1/2" and larger -- 150# brass flange union, flat faced, full gasket.
5. Gaskets - Hot and cold water -- Garlock Style 320D.
6. Flange Bolts -- Open-hearth bolt steel, square heads with cold pressed hexagonal nuts, cadmium plated in ground. Provide copper plated steel bolts and nuts or brass bolts and nuts for brass flanges.

2.05 PIPE HANGERS AND SUPPORTS:

A. The work covered under this section consists of the furnishing of all necessary labor, supervision, materials, equipment, and services to completely execute the pipe hanger and supports as described in this specification.

B. References:

1. MSS-SP58 – manufacturers standardization society: pipe hangers and supports – materials, design, and manufacture.
2. MSS-SP69 – manufacturers standardization society: pipe hangers and supports – selection and application.
3. NFPA 13 – standard for the installation of sprinkler systems.
4. ASTM A123 – specification for zinc hot-galvanized coatings on products fabricated from rolled, pressed, and forged steel shapes, plates, bars and strip.
5. ASTM A653 g90 – specification for steel sheet, zinc-coated by the hot-dip process.
6. ASTM B633 – specification for electrodeposited coatings of zinc on iron and steel.

C. Quality Assurance:

1. Steel pipe hangers and supports shall have the manufacturers name, part number, and applicable size stamped in the part itself for identification.
2. Hangers and supports shall be designed and manufactured in conformance with MSS-SP58.
3. Supports for sprinkler piping shall be in conformance with NFPA 13.

D. Submittals:

1. Submit product data on all hanger and support devices. Product data to include, but limited to materials, finishes, approvals, load ratings, and dimensional information.

E. Acceptable Manufacturers:

1. Manufacturer: subject to compliance with these specifications, pipe hanger and support systems shall be as manufactured by TOLCO, Inc., Superstrut, B-line, or equal.

F. Pipe Hangers and Supports:

1. Uninsulated pipes 2 inch and smaller:
   A. Adjustable steel swivel ring (band type) hanger, TOLCO fig. 2, fig. 200.
   B. Adjustable steel swivel j-hanger, TOLCO fig. 3.
   C. Adjustable steel clevis hanger, TOLCO fig. 1, fig 1ld.

2. Uninsulated pipes 2-1/2 inch and larger:
   A. Adjustable steel clevis harger TOLCO fig. 1.
   B. Pipe roll with sockets, TOLCO fig. 322.
   C. Adjustable steel yoke pipe roll, TOLCO fig. 324.

G. Pipe Clamps: when flexibility in the hanger assembly is required due to horizontal movement, use pipe with weldless eye nuts, TOLCO fig. 4 or fig. 4h with fig. 330. for insulated lines use bolted pipe clamps, TOLCO fig. 5 with fig.330.

H. Multiple or Trapeze Hangers:

1. Trapeze hangers shall be constructed from 12 gauge roll formed steel channel, 1-5/8" x 1-5/8" minimum, Tolstrut a12 strut or stronger as required.
2. Mount pipes to strut channel trapeze with two piece pipe straps sized for outside diameter of pipe, Tolstrut fig. EMTC, rigid, O.D. or universal pipe clamps as required.
3. For pipes subject to axial movement: strut mounted roller support, Tolstrut fig. Rol 12, 13, 14, 15 or 16 as required. Use pipe protection shield or saddles on insulated lines. TOLCO fig. 220 or fig. 260-265.

I. Vertical Supports: steel riser clamp sizec to fit outside diameter of pipe, TOLCO fig. 6.

J. Copper Tubing Supports:

1. Hangers shall be sized to fit copper tubing outside diameters.
   A. Adjustable steel swivel band hanger, TOLCO fig. 202.
   B. Malleable iron ring hanger, TOLCO fig. 301ct.
   C. Adjustable steel clevis hanger, TOLCO fig. 81.

K. Plastic pipe supports: adjustable band hanger, PVC coated with flared edges, TOLCO fig. 203, V-bottom clevis hanger with a "v' trough support, TOLCO fig. 1v and fig. 1vt to provide continuous support for flexible plastic pipe.

L. Supplementary structural supports: design and fabricate supports using structural quality steel bolted framing materials as manufactured by TOLCO, inc. Channels shall be roll formed, 12 gauge steel, 1-5/8" x 1-5/8" or greater as required by loading conditions. Submit designs for pipe tunnels, pipe galleries, etc., to engineer for approval. Use clamps and fittings designed for use with the strut system.

M. Upper Attachments:

1. Beam Clamps:
   A. Beam clamps shall be used where piping is to be suspended from building steel. Clamp type shall be selected on the basis of load to be supported, and load configuration.
   B. C-clamps shall have locknuts and cup point set screws, TOLCO fig. 64. Reversible top or bottom flange c-clamps shall be used when attaching a hanger rod to the top of flange of structural shapes, TOLCO fig. 65 and fig. 66. Retaining straps shall be used to maintain the clamps position on the beam where required.
   C. Center loaded beam clamps shall be used where specified. Steel clamps shall be TOLCO fig. 62. Malleable iron or forged steel beam clamps with cross bolt shall be TOLCO fig. 329.

N. Accessories:

1. Hanger rods shall be threaded both ends, or continuous threaded rods of circular cross section TOLCO fig. 100 or fg. 103. Use adjusting locknuts at upper attachments and hangers. No wire, chain, or perforated straps are allowed.
2. Shields shall be 180° galvanized sheet metal, 12 inch minimum length, 18 gauge minimum thickness, designed to match outside diameter of the insulated pipe, TOLCO fig. 220.

O. Indoor Finishes:

1. Hangers and clamps for support of bare copper piping shall be coated with copper colored epoxy paint. Additional PVC coating of the epoxy painted hanger shall be used where necessary.
2. Hangers for other than bare copper pipe shall be zinc plated in accordance with ASTM B633 - sc3.
3. Strut channels shall be pre-galvanized in accordance with ASTM A653 G90.

R. Wood Connectors: Angle clips with through bolts in shear; no lag screws in tension.

2.06 SERVICE MARKERS:

A. 4" round by 30" long concrete marker, Haley Mfg., Co., Pinkerton, or equal with engraved brass identification plate.

2.07 PIPE PROTECTION:

A. Polyethylene Coating: Extruded polyethylene coating, X-Tru-Coat, or field wrap as in B, Raychem "Thermofit" polyethylene sleeve joints, or field wrap as in B.

B. Tape Wrap: Pressure sensitive polyvinyl chloride tape, "Trantex #V-10 or V-20", "Scotchrap #50", Slipknot 100, or equal, with continuous identification. Tape shall be a minimum of 20 mils thick for fittings and irregular surfaces, 2 wraps, 50% overlap, 40 mils total thickness. Tape shall be laminated with a suitable adhesive. Widths as

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modern Modular Buildings, Inc. and are not to be reproduced, changed or used in any way without permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
BRIAN J. PROVENCAL
No. M030446
Exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

TURLEY & ASSOCIATES | MECHANICAL ENGINEERING GROUP, INC.
1390 Creekside Oaks Drive
Suite 120
Sacramento, CA 95833
(916) 925-1990
Fax: (916) 925-1015
Email: office@turleyassoc.com

Project Engineer:	BP	Job Number:	25125
Project Manager:	NS	Plot Date: Mar 27, 2025 - 1:33pm	
Project Drafter:	ZH	Login: Zhenhao	

DRAWN: T&A
CHECKED: T&A
REVISIONS:

-	-

DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE
MECHANICAL SPECIFICATIONS

SHEET NO.
M4.2

3.11 INSULATION WORK:

A. Duct Insulation:

1. Wrap all unlined concealed supply and return ducts with O.C. Fiberglas All-Service duct wrap with a reinforced foil Kraft vapor barrier facing 2" thick and 3/4# per cubic foot density. Wrap insulation entirely around duct and wire securely in place with #16 wire 12" o.c. and each side of each standing seam and over each insulation joint. Lap all insulation joints 3" minimum. Insulate ducts installed tight against other work before hanging in place.

2. All ducts and plenums in Fan Room shall be insulated with 1-1/2" (2" outside building) thick Fiberglas 705 insulating board with factory-applied foil facing. Insulation shall be adhered to ducts with Type B STICKLIPS at 18" o.c. cemented in place. Wrap insulation with 8 ounce canvas sized with Foster's Seal-fas mastic. Apply one final undiluted coating of Foster's 30-76 white insulation coating.

3. Install acoustical lining in all supply, return and mixed air ducts and plenums exposed in the Equipment Room or outside the building and where marked; and additional length as necessary to provide, in all cases, a minimum of 10'-0" in each direction from the fan, fan casing, or unit casing. Line exhaust ducts for a minimum of 10'-0" from fan inlet and 10'-0" downstream from each register or grille. Line all transfer ducts. Lining shall be 1" thick vinyl face black matt Fiberglas Aeroflex Type 150, 1-1/2# per cubic foot, J-M, or equal. Cement the lining in place with 100% coverage of Foster's 85-20, 3M #38, or equal, and coat all edges and joints. In addition, all lining shall be fastened with Sticklips or welded pins spaced at 18" maximum centers both ways. No bare fiberglass shall be left exposed to air stream.

4. Seal airtight seams of all ductwork with **Hardcast Foilgrip 1402 181 BFX** indoor/outdoor roll sealant. Sealant shall be provided in 3" wide rolls. Sealant shall be UL 181 listed, 2 mil thick aluminum with 12 mil elastomeric modified butyl rubber. Flamespread index 0, Smoke Developed rating 0. Overlap ends of sealant. After applying to duct rub down with adequate pressure to assure complete contact. Seal insulated ducts before insulating

3.12 EQUIPMENT IDENTIFICATION:

A. Identify each piece of equipment with an engraved brass tag fastened with screws. For example - EXHAUST FAN 2.

3.13 PIPE IDENTIFICATION:

A. Identify each piping system and indicate the direction of flow by means of Idento Bands (Idento Metal Products Co.) or SETMARK pipe markers. Apply the markings after all painting and cleaning of the piping and insulation is completed.

B. Apply the legend and flow arrow at all valve locations; at all points where the piping enters or leaves a wall, partition, cluster of piping or similar obstruction; and at approximately 50'-0" intervals on pipe runs. Variations or changes in locations and

spacing may be made with the approval of the Architect. There shall be at least one marking in each room. Markings shall be located for maximum visibility from expected personnel approach.

C. Wherever two or more pipes run parallel, the markings shall be supplied in the same relative location on each.

D. The legends and flow arrows shall conform to ANSI A13.1.

E. The sizes of the letter and flow arrows shall be as follows:

Outside Diameter of Pipe or Covering (Inclusive)	Size of Letter	Minimum Length of Flow Arrow
5/8" to 2"	1/2"	2-1/2"
2-1/2" and Larger	1"	4"

F. Each hand valve on non-potable water piping shall be labeled with a metal tag stamped "DANGER -- NON-POTABLE WATER" in one-quarter inch (1/4") high letters.

3.14 TESTS AND ADJUSTMENTS:

A. Test the installation in accordance with the following requirements and all applicable codes. Notify the Architect at least 7 days in advance of any test. All piping shall be tested at completion of roughing-in, or at other times as directed by the Architect.

B. Furnish all necessary materials, test pumps, gases, instruments and labor required for testing. Tests shall be witnessed by the Architect.

C. Isolate from the system all equipment which may be damaged by test pressure.

D. Test Schedule: No loss in pressure or visible leaks shall show after four hours at the pressures indicated.

System Tested	Test Pressure PSI	Test With
Sanitary Sewer, Drain, Vent	10 Ft. Hd.	Water
Condensate Drains	10 Ft. Hd.	Water
Domestic Cold Water	125	Water

E. Testing, Evacuating, Charging and Lubrication of Refrigeration Systems:

1. Pressurize with dry nitrogen and/or refrigerant to 300 psig and test all joints with an electronic detector or halide torch. Release the pressure and attach a high vacuum pump. Evacuate to 4mm (4000 microns) and hold for 30 minutes. Break to 5 psig with dry nitrogen or R-22 and allow to remain in the system for ten minutes. Evacuate to 2mm (2000 microns) and hold for 30 minutes. Use a mercury manometer or electronic vacuum gauge. Do not start timing until recommended vacuum range is reached.

2. At the end of the evacuation, if the system has been proved leakfree, charge with refrigerant and fill the crankcase to the oil level specified by the manufacturer. All refrigerant oil shall be delivered to the location in sealed containers.

3. Replenish for a period of one year without cost to the Owner all refrigerant and oil required to maintain the proper levels.

F. Perform operational tests under simulated or actual service conditions, including one test of complete plumbing installation with all fixtures and other appliances connected.

G. Should any material or work fail in any of these tests, it shall be immediately removed and replaced by new material, any portion of the work replaced shall again be tested by Contractor at his own expense.

H. Instruct Owner's operating personnel during test and operating adjustment period. Lubricate each item of equipment, including motors, before operation.

END OF SECTION

4. Install hangers to provide a minimum of ½ inch space between finished covering and adjacent work.

5. Place a hanger within 12 inches of each horizontal elbow.

6. Support vertical piping independently of connected horizontal piping. Support vertical pipes at every floor. Wherever possible, locate riser clamps directly below pipe couplings or shear lugs.

7. Do not support piping from other pipes, ductwork or other equipment which is not building structure.

8. Burning or welding on any structural member may only be done if approved by the architect.

9. Insulate copper tubing from ferrous materials and hangers with 2 layers of 3" wide 10 mil polyvinyl tape wrapped around pipe.

10. No valve or piece of equipment shall be used to support the weight of any pipe.

11. Provide a support or hanger close to each change of direction of pipe either horizontal or vertical.

F. Fireproofing:

1. The annular space between the pipe sleeves and the pipe and between duct openings and ducts through all floors and walls shall be protected by a UL-listed Fire Stopping System, 3M, Fire Barrier, Dow Firestop or Nelson Firestop.

3.06 SERVICE MARKERS:

A. Mark the location of each plugged or capped pipe, set marker in 6" x 6" concrete pad flush with finish grade.

3.07 PIPE JOINTS AND CONNECTIONS:

A. Cutting: Cut piping and tubing square, ream cut ends to full bore, remove rough edges, burrs, loose materials.

B. Copper and Brass Pipe and Tubing (except Control Piping): Make all joints with silver brazing alloy, Sil-Fos or equal, 1100 degrees F. melting point or greater, ASTM B-260, except that water piping 1-1/4" and smaller not buried in the ground or concrete and Type DWV plumbing piping may be made up with 95-5 tin-antimony, ASTM B-32, Grade 5A solder. Boss or saddle type fittings or mechanically extracted tube joints will not be allowed. Use leadless solder for potable water piping.

C. Cast Iron Soil Pipe:

1. Make-No Hub joints with torque wrench. Wrought iron, steel, or copper pipe shall have a ring or part of a coupling screwed on to form a spigot end where

connected to a No-Hub joint. Suspended No-Hub pipe shall have sway brace at 20'-0" maximum spacing.

2. Ty-Seal, Dual-Tite, or equal, pipe and fittings may be used at the Contractor's option.

3. Connect building drain piping to outside service pipe with reducers or increasers as required. Caulking of smaller pipe into the larger without a reducer or increaser will not be permitted. Provide for changes in material types.

3.08 UNIONS AND FLANGES:

A. Install Epco, or equal, dielectric unions or flanges at points of connection between copper or brass piping material and steel or cast iron pipe or material except in drain, waste, vent, or rainwater piping. Bushings or couplings shall not be used. Dielectric unions shall not be installed below grade.

B. Install unions, whether shown or not, at each connection to all equipment and tanks, at one connection to each valve or cock, and at all connections to all automatic valves, such as temperature control valves.

C. Locate the unions for easy removal of the equipment, tank or valve.

3.09 PIPE PROTECTION:

A. Wrap all underground bare galvanized and black steel pipe and copper pipe, buried in the ground and to 6" above grade, including piping in conduit, with a corrosive protective wrap as specified under "Pipe Protection" in Part 2 of this Section.

B. Cleaning: Clean all piping thoroughly before wrapping.

C. Inspection: Damaged or defective wraps shall be repaired as directed. No wrapped pipe shall be covered until approved by the Architect.

D. Testing: Test completed piping with Tinker and Rasor Co. test machine (San Gabriel, Calif. 626/287-7942).

E. Covering: No rocks or sharp edges shall be backfilled against the wrap. when backfilling with other than sand, protect wrap with an outer wrapping of Kraft paper. Leave in place during backfill.

3.10 ACCESS DOORS:

A. Furnish and install access doors wherever required whether shown or not for easy maintenance of mechanical system; for example, at concealed valves, strainer, traps, cleanouts, dampers, motors, controls, operating equipment, etc. Access doors shall provide for complete removal and replacement of equipment.

2. Where piping or conduit is left exposed within a room, the same shall be run true to plumb, horizontal or intended planes. Where possible, uniform margins are to be maintained between parallel lines and/or adjacent wall, floor or ceiling surfaces.

3. Horizontal runs of pipes and/or electrical conduit suspended from ceilings shall provide for a maximum headroom clearance. The clearance shall not be less than 6'-8" without written approval from the Architect.

4. Minor changes in locations of equipment, piping, ducts, etc., from locations shown shall be made when directed by the Architect at no additional cost to the Owner providing such change is ordered before such items of work, or work directly connected to same are installed and providing no additional material is required.

5. Grade all water-circulating piping, flow and return, to provide for drainage of lines and elimination of air.

6. Close ends of pipe immediately after installation. Leave closure in place until removal is necessary for completion of installation.

7. Each piping system shall be thoroughly flushed and proved clean before connection to equipment.

8. Pipe the discharge of each relief valve, air vent, backflow preventer and similar device to floor sink or drain.

9. Install exposed polished or enameled connections with special care showing no tool marks or threads at fittings.

10. Tracer Wires (for Non-Metallic Pipe):

a. Install tracer wire where shown for non-metallic pipe in ground outside of buildings. Use AWG #12 tracer wire and lay continuously below vertical projection of pipe so that it is not broken or stressed by backfilling operations. Solder all joints.

b. Locate terminals where shown. Terminals: Precast concrete box and cast iron locking traffic cover, Brooks 3TL, or equal; cover marked with name of service; 6" of loose gravel below box. Plastic terminal board with brass bolts; identify line direction with plastic tags. Test for continuity between terminals after backfilling in presence of Construction Supervisor.

c. Option: Use electronically detectable plastic tape with metallic core, Terra Tape D, manufactured by Griffolyn Co., or equal; tape 2" wide, continuously imprinted "CAUTION, WATER (GAS, etc.) LINE BELOW". Install, with printed side up, directly over pipe, 8" below finish grade. Backfill material shall be as previously specified for the particular condition where pipe is installed, but avoid use of crushed rock or of earth with particles larger than 1/2" within the top 12" or backfill. Take

precautions to insure that tape is not damaged or misplaced during backfill operations. Terminal boxes not required.

11. Use reducing fittings; bushings shall not be allowed. Use eccentric reducing fittings wherever necessary to provide free drainage of lines and passage of air.

B. Sleeves: Install AMI sleeves of sufficient size to allow for free motion of pipe, 24 gage galvanized steel. The space between pipe and sleeves through floor slabs on ground, through outside wall above or below grade, through roof, and other locations as directed shall be caulked with oakum and mastic and made water-tight. At Contractor's option pipes through slabs on grade may be wrapped with 1" thick fiberglass insulation to completely isolate the pipe from the concrete in lieu of sleeves. Link seal casings may be used in lieu of caulking.

C. Floor, Wall and Ceiling Plates: Fit all pipe with or without insulation passing through walls, floors, or ceilings, and all hanger rods penetrating finished ceilings with chrome plated or stainless steel plates. Openings through air plenums shall be sealed airtight.

D. Flashing: Furnish and install around each pipe, where it passes through a roof, a flashing and counterflashing.

E. Pipe Hangers and Supports:

1. Pipe shall be adequately supported by pipe hanger and supports specified in part 2 - products. Hangers for insulated pipes shall be sized to accommodate insulation thickness.

2. Horizontal copper tubing shall be supported in accordance with mss sp-69 tables 3 and 4, excepts of which follow below:

Nominal Pipe Size	Rod Diameter	Maximum Spacing
1/2 -3/4	3/8	5' 0"
1	3/8	6' 0"
1-1/4	3/8	8' 0"
1-1/2	3/8	8' 0"
2	3/8	8' 0"
2-1/2	1/2	9' 0"
3	1/2	10' 0"
3-1/2	1/2	11' 0"
4	1/2	12' 0"
5	1/2	12' 0"
6	5/8	12' 0"
8	3/4	12' 0"

3. Provide means of preventing dissimilar metal contact such as plastic hangers, felt lined hangers, copper colored epoxy paint, or non-adhesive isolation tape. Galvanized felt isolators sized for copper tubing may also be used, TOLCO fig. 83.

recommended by the manufacturer for the pipe size. Wrap 50'-0" or longer sections of piping with an approved wrapping machine.

C. Pabco Wrap: Pabco Specifications #D-40-240K double wrap, in accordance with manufacturer's recommendations or PVC as in B. Lap pipe wrap a minimum of 1/4" and stagger the second layer. All Pabco pipe wrapping shall be done by the manufacturer's agent and not by the Contractor, except the field joints.

D. Field Joints and Fittings: Pabco double wrap and Polyvinyl Chloride type as above. Provide at least 2 thicknesses of tape over the joint and extend a minimum of 4" over adjacent pipe covering. Build up with primer to match adjacent covering thickness. Width of tape on fittings shall not exceed 2". Tape shall adhere tightly to all surfaces of the fittings, without air pockets.

2.08 INSULATION:

A. Refer to Part 3.

PART 3 - EXECUTION

3.01 ELECTRICAL REQUIREMENTS:

A. Provide adequate working space around electrical equipment in compliance with the California Electric Code. Coordinate Mechanical Work with Electrical Work to comply.

B. Furnish and set in place all motors. Furnish necessary control diagrams and instructions for controls. Before permitting operation of any equipment which is furnished, installed or modified under this section, review all associated electrical work including overload protection devices and assume complete responsibility for correctness of electrical connections and protective devices.

C. Motors and control equipment shall conform to Standards of National Electrical Manufacturer's Association. All equipment and connections exposed to the weather shall be NEMA IIIR with factory wired strip heaters in each starter enclosure, and temperature control panel to inhibit condensation.

D. All power wiring, conduit, fuses, thermal overloads, and disconnect switches, and connection of all motors are under electrical work, Division 26. All wiring and conduit associated with the temperature control and indicating system is included in this section. Run all wiring in conduit in accordance with Division 26.

E. Electric Motors: All motors shall be rated for continuous operation at 115% of nameplate amperage throughout the entire operating cycle. Motors found exceeding the nameplate amperage shall be promptly replaced at no cost to the Owner. Horsepowers shown are minimum and shall be increased as necessary to comply with above requirements.

F. Motor Starters: Furnish magnetic motor starter for all equipment furnished under this section except those shown in motor control centers.

G. Provide OSHA label indicating device starts automatically.

3.02 EXCAVATING:

A. Perform all excavating required for work of this secton.

B. Unless shown otherwise, provide a minimum of 3'-0" above top of pipe to finished grade outside so as to be below frost line and a minimum of 1'-0" under building from bottom of slab. Trim trench bottom by hand or provide a 4" deep minimum bed of sand to provide a uniform grade and firm support throughout entire length of pipe. For cement asbestos pipe, insulated pipe, glass pipe, or plastic pipe, bed the pipe in sand.

C. Maintain all warning signs, barricades, flares and red lanterns as required.

D. For all trenches 5' or more in depth, shoring, bracing, slipping or other provisions shall be made for worker protection from the hazard of caving ground during the excavation of such trenches in accordance with Cal OSHA.

3.03 BACKFILLING:

A. Backfill shall comply with applicable compaction provisions of Division 2 of these specifications.

B. Backfill plastic pipe and insulated pipe with sand for a minimum distance of 12" above the top of the pipe. Compact sand backfill by impact tamper and concrete vibrator.

C. Except under existing or proposed paved area, walks, roads, or similar surfaces, and in cases where rock is encountered, backfill more than 1'-0" above the top of the pipe shall be made using suitable excavated material or other approved material as necessary. Place the backfill in 8" layers, measured before compaction, and compact with impact hammer to at least 95% relative compaction per ASTM D1557.

D. Entire backfill for excavations under existing or proposed pavements, walks, roads, or similar surfaces, under new slabs on grade and where rock is encountered, shall be made with clean sand compacted with mechanical tamping equipment to at least 95% relative compaction per ASTM D1557. Remove excess earth from site or deposit on site if so directed by the Architect.

3.04 THRUST BLOCKS:

A. Provide concrete anchors or thrust blocks on all cast iron and cement asbestos water and forced main sewer lines in the ground. Install thrust blocks at all changes in direction and at all connections to the mains 2" and larger. Form thrust blocks by pouring concrete between the pipes and trench wall. They shall be adequate in size and placed to take all thrusts created by the maximum internal water pressure.

3.05 INSTALLATION OF PIPING SYSTEMS:

A. General:

1. All piping shall be concealed unless shown or otherwise directed.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modern Modular Buildings, Inc. and are not to be reproduced, changed or used in whole or partial extension of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
BRYAN J. PROVENCAL
No. M030446
Exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

TURLEY & ASSOCIATES — MECHANICAL ENGINEERING GROUP, INC.
1560 Creekside Oaks Drive
Suite 120
Sacramento, CA 95833
(916) 525-1560
FAX: (916) 525-1570
Email: office@turleymech.com

Project Engineer:	BP	Job Number:	23-025
Project Manager:	NS	Plot Date: Mar 27, 2025 - 1:33pm	
Project Drafter:	JH	Login - Drawings:	

DRAWN: T&A
CHECKED: T&A
REVISIONS:

-	-

DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE
MECHANICAL SPECIFICATIONS

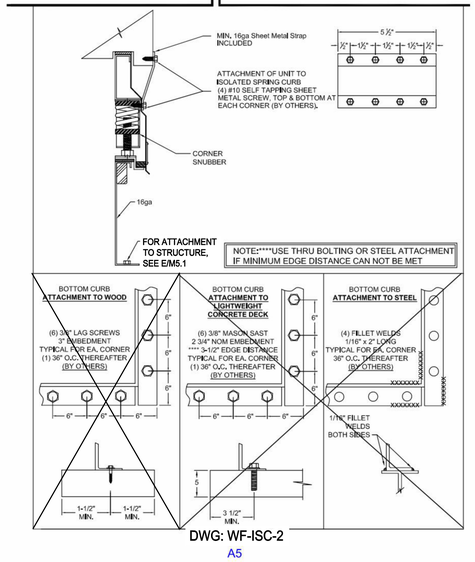
SHEET NO.
M4.3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

MASON INDUSTRIES, INC.
MANUFACTURERS OF VIBRATION CONTROL PRODUCTS
350 Rabro Drive, Hauppauge, NY 11788, 631/348-0282, FAX 631/348-0279, Info@Mason-Ind.com
2101 W. Crescent Ave., Suite D, Anaheim, CA 92801, 714/535-2727, FAX 714/535-5738, www.Mason-Ind.com

1" AND 2" DEFLECTION TYPE ISC ATTACHMENT DETAILS

DATA SHEET: WF-ISC-3

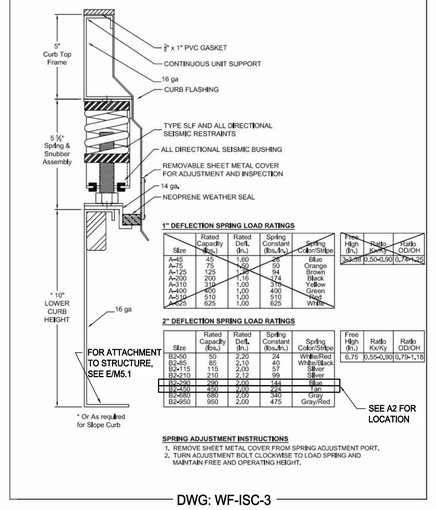


DWG: WF-ISC-2
A5

MASON INDUSTRIES, INC.
MANUFACTURERS OF VIBRATION CONTROL PRODUCTS
350 Rabro Drive, Hauppauge, NY 11788, 631/348-0282, FAX 631/348-0279, Info@Mason-Ind.com
2101 W. Crescent Ave., Suite D, Anaheim, CA 92801, 714/535-2727, FAX 714/535-5738, www.Mason-Ind.com

1" AND 2" DEFLECTION TYPE ISC DETAILS AND SPRING ADJUSTMENT INSTRUCTIONS

DATA SHEET WF-ISC-2



1" DEFLECTION SPRING LOAD RATINGS

Size	Rated Capacity (lbs.)	Rated Defl. (in.)	Spring Constant (lbs./in.)	Spring Color/Stripe	Free Hight (in.)	Ratio Kx/Ky	Ratio OD/OH
A-45	45	1.60	28	Blue	3x-3/8	0,50–0,90	0,78–1,25
A-75	75	1,60	50	Orange			
A-125	125	1,20	94	Brown			
A-200	200	1,16	174	Black			
A-310	310	1,00	310	Yellow			
A-400	400	1,00	400	Green			
A-510	510	1,00	510	Red			
A-625	625	1,00	625	White			

2" DEFLECTION SPRING LOAD RATINGS

Size	Rated Capacity (lbs.)	Rated Defl. (in.)	Spring Constant (lbs./in.)	Spring Color/Stripe	Free Hight (in.)	Ratio Kx/Ky	Ratio OD/OH
B2-50	50	2,20	24	White/Red	6,75	0,55–0,90	0,79–1,18
B2-85	85	2,10	40	White/Black			
B2-115	115	2,00	57	Silver			
B2-210	210	2,12	99	Silver			
B2-290	290	2,00	144	Blue			
B2-450	450	2,00	223	Tan			
B2-650	650	2,00	323	Gray			
B2-950	950	2,00	475	Gray/Red			

SPRING ADJUSTMENT INSTRUCTIONS
1. REMOVE SHEET METAL COVER FROM SPRING ADJUSTMENT PORT.
2. TURN ADJUSTMENT BOLT CLOCKWISE TO LOAD SPRING AND MAINTAIN FREE AND OPERATING HEIGHT.

DWG: WF-ISC-3
A4

LARR 24589 P 34

MASON INDUSTRIES, INC.
MANUFACTURERS OF VIBRATION CONTROL PRODUCTS
350 Rabro Drive, Hauppauge, NY 11788, 631/348-0282, FAX 631/348-0279, Info@Mason-Ind.com
2101 W. Crescent Ave., Suite D, Anaheim, CA 92801, 714/535-2727, FAX 714/535-5738, www.Mason-Ind.com

ISC ROOF CURB

Notes:
1. Load ratings are per individual seismic spring window used inside a complete Mason ISC curb system.
2. Calculations are required for the attachments of the equipment to ISC curb and for ISC curb to supporting structure.
3. The Engineer of Record shall verify the adequacy of the supporting structure.

Allowable Loads per City of Los Angeles Approval Number RR 24589

Isolator Type	Seismic Load Safety Factor = 2.0		Dead Load Safety Factor = 4.0
	Vertical	Horizontal	Vertical
ISC Spring Window	1715#	1050#	950#

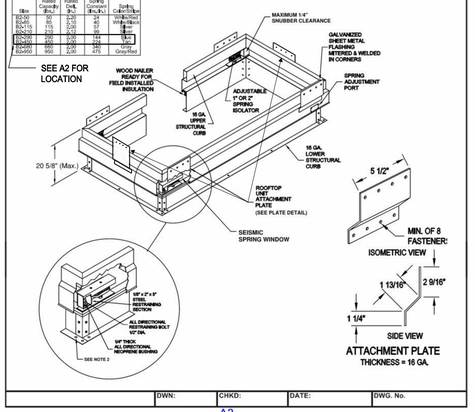
Gummadi Dharma Reddy
Civil Engineer, California CE #29627

1" DEFLECTION SPRING LOAD RATINGS

Size	Rated Capacity (lbs.)	Rated Defl. (in.)	Spring Constant (lbs./in.)	Spring Color/Stripe
A-45	45	1,60	28	Blue
A-75	75	1,60	50	Orange
A-125	125	1,20	94	Brown
A-200	200	1,16	174	Black
A-310	310	1,00	310	Yellow
A-400	400	1,00	400	Green
A-510	510	1,00	510	Red
A-625	625	1,00	625	White

2" DEFLECTION SPRING LOAD RATINGS

Size	Rated Capacity (lbs.)	Rated Defl. (in.)	Spring Constant (lbs./in.)	Spring Color/Stripe
B2-50	50	2,20	24	White/Red
B2-85	85	2,10	40	White/Black
B2-115	115	2,00	57	Silver
B2-210	210	2,12	99	Silver
B2-290	290	2,00	144	Blue
B2-450	450	2,00	223	Tan
B2-650	650	2,00	323	Gray
B2-950	950	2,00	475	Gray/Red



DWN:	CHK'D:	DATE:	DWG. No.

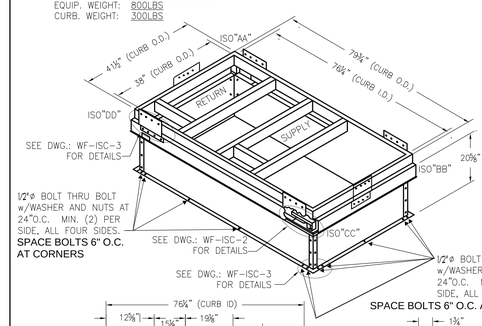
A3

MASON INDUSTRIES, Inc.
MANUFACTURERS OF VIBRATION CONTROL PRODUCTS
350 RABRO DRIVE, HAUPPAUGE, NY 11788, 631/348-0282, FAX 631/348-0278
2101 W.CRESCENT, SUITE D, ANAHEIM, CA 92801, 714/535-2727, FAX 714/535-5738

CERTIFIED FOR
JOB NAME : DAVIS SCHOOL
CUSTOMER : TURLEY & ASSOC
CUSTOMER P.O. :
MASON E.O.: 33709 DWG.: WF-33709-01
REQ'D : (1)EACH

TYPE ISC ISOLATED SPRING CURB 2" DEFLECTION

TAG 4 TON ROOFTOP UNIT
UNIT LENNOX LHT048H5E
EQUIP. WEIGHT: 800LBS
CURB. WEIGHT: 300LBS



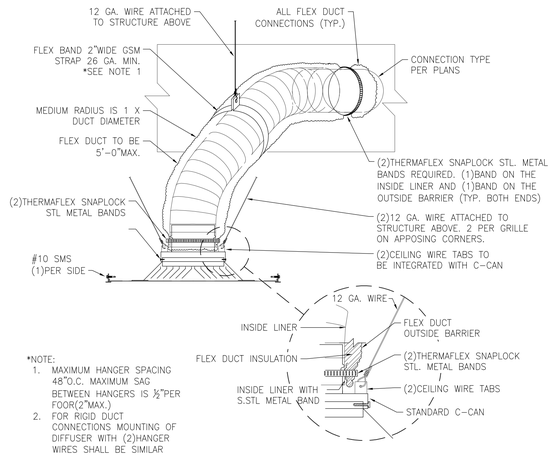
2" DEFLECTION ISOLATION SELECTIONS

ISO"AA" SLF	ISO"BB" SLF	ISO"CC" SLF	ISO"DD" SLF
B2-290	B2-290	B2-450	B2-450

NOTE:
1. ROOFTOP UNIT MUST BE RIGGED ON TOP OF THE ISC IN ONE PIECE (DO NOT RIG UNIT IN SECTIONS).
2. FABRIC DUCT CONNECTORS (BY OTHERS) ARE REQUIRED BETWEEN THE ISOLATED UNIT AND THE DUCTWORK.
3. ALL WATER, ELECTRICAL AND REFRIGERANT CONNECTORS MUST BE FLEXIBLE.

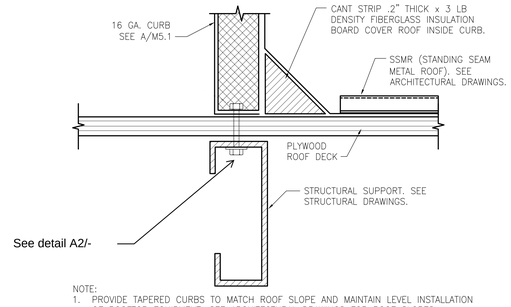
A2

A HP UNIT MOUNTING DETAIL
NO SCALE



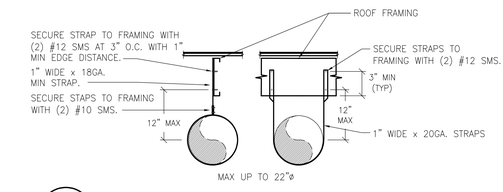
*NOTE:
1. MAXIMUM HANGER SPACING 48"O.C. MAXIMUM SAG BETWEEN HANGERS IS ½"PER FOOR(2"MAX.)
2. FOR RIGID DUCT CONNECTIONS MOUNTING OF DIFFUSER WITH (2)HANGER WIRES SHALL BE SIMILAR

D DIFFUSER/FLEX DUCT DETAIL
NO SCALE

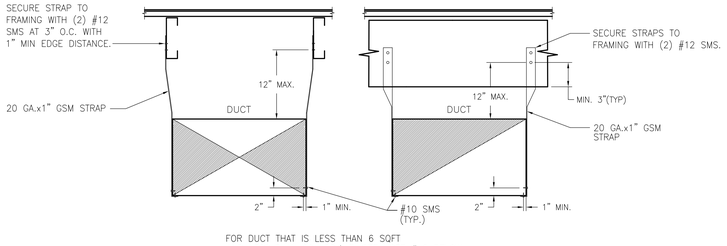


NOTE:
1. PROVIDE TAPERED CURBS TO MATCH ROOF SLOPE AND MAINTAIN LEVEL INSTALLATION OF ROOFTOP EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.

E HP MOUNTING DETAIL – CURB TO STRUCTURE
NO SCALE

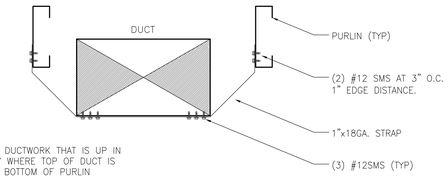


B ROUND DUCT HANGER DETAIL
NO SCALE



FOR DUCT THAT IS LESS THAN 6 SQFT AND LESS THAN 20 LBS/L.F. SEE NOTE # 2 BELOW

NOTE:
1. SUPPORT DUCTWORK AT 8'-0" O.C.
2. PER 2022 CBC SECTION 13.6.6 – 1617A.1.25 ASCE 7, EXCEPTION # 2. SEISMIC RESTRAINT IS NOT REQUIRED FOR DUCTS (ROUND OR RECTANGULAR) HAVE A CROSS-SECTIONAL AREA OF LESS THAN 6 SQUARE FEET AND WEIGH 20LB/FT OR LESS. NO SEISMIC BRACING REQUIRED ON THIS PROJECT.
3. PROVISIONS ARE TO BE MADE TO AVOID IMPACT WITH ADJACENT ITEMS AND UTILITY
4. ANY ATTACHED ACCESSORIES > 75LBS MUST BE SUPPORTED AND LATERALLY BRACED INDEPENDENTLY.



NOTE:
DETAIL FOR DUCTWORK THAT IS UP IN PURLIN BAY WHERE TOP OF DUCT IS ABOVE THE BOTTOM OF PURLIN

C RECTANGULAR DUCT HANGER DETAIL
NO SCALE

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modern Modular Buildings, Inc. and are not to be reproduced, changed or used in any form or by any means, electronic or mechanical, without permission of the Modern Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
GARY J. PROFESSIONAL
No. M030446
Exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

TURLEY & ASSOCIATES | MECHANICAL ENGINEERING GROUP, INC.
1390 Creekside Oaks Drive, Suite 120, Sacramento, CA 95833
(916) 325-1000, Fax: (916) 325-1070
Email: office@turleymech.com

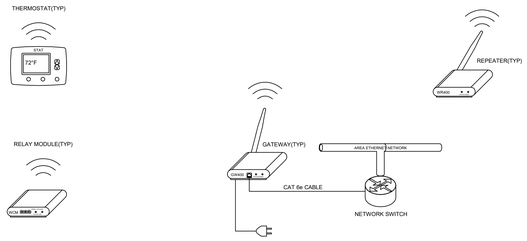
Project Engineer:	BP	Job Number:	25120
Project Manager:	NS	Plot Date: Feb 17, 2026 - 12:07pm	
Project Drafter:	ZH	Login: kittyh	

DRAWN: T&A
CHECKED: T&A
REVISIONS:

DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE
MECHANICAL DETAILS

SHEET NO.
M5.1

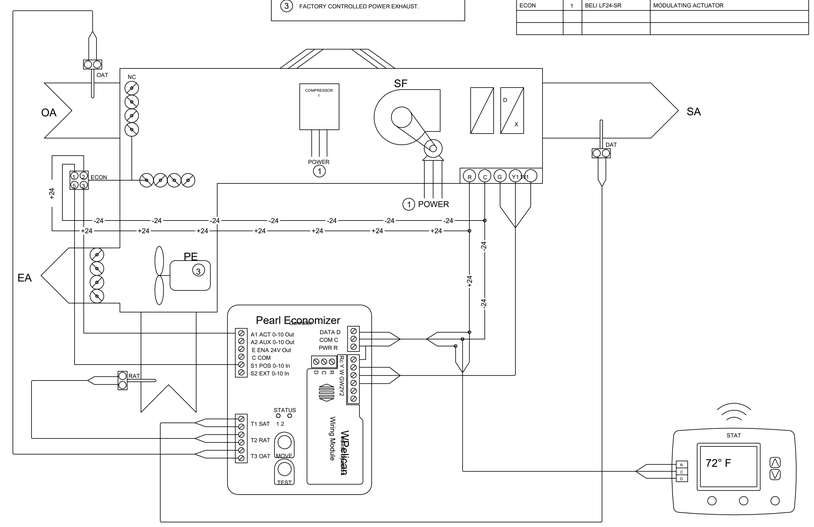


Control Components			
TAG	QTY	PART NUMBER	DESCRIPTION
GATEWAY	X	PELGW400	PELICAN WIRELESS GATEWAY
REPEATER	X	PELMR400	PELICAN WIRELESS REPEATER

1/3 LAN ARCHITECTURE

Sheet Notes
1 LINE VOLTAGE & CONDUIT BY DIVISION 16.
2 MOUNT PELICAN ECONOMIZER CONTROLLER IN UNIT
3 FACTORY CONTROLLED POWER EXHAUST.

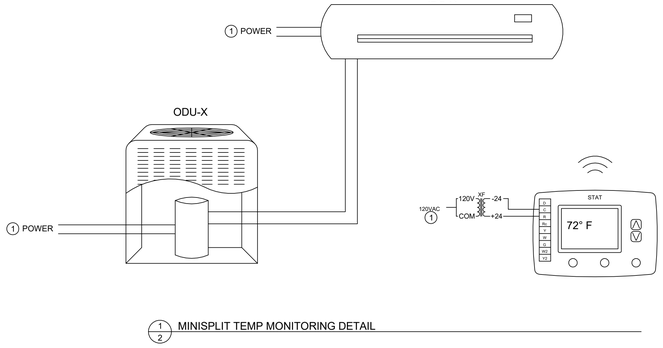
Control Components			
TAG	QTY	PART NUMBER	DESCRIPTION
STAT	1	PEL TS200	WIRELESS TEMPERATURE + CO2 THERMOSTAT
PEARL	1	PEL PEARL	PEARL ECONOMIZER MODULE
ECON	1	BELI LF24-SR	MODULATING ACTUATOR



1/1 PACKAGE UNIT WITH PEARL CONTROL DETAIL
TYPICAL OF 11

Sheet Notes
1 LINE VOLTAGE & CONDUIT BY DIVISION 16.

Control Components			
TAG	QTY	PART NUMBER	DESCRIPTION
STAT	1	PEL TS200	WIRELESS THERMOSTAT



1/2 MINISPLIT TEMP MONITORING DETAIL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Building Co., and are not to be reproduced, changed or copied without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY

1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
BRIAN J. PROVENCAL
No. M030446
Exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

TURLEY & ASSOCIATES | MECHANICAL ENGINEERING GROUP, INC.
1390 Creekside Oaks Drive
Suite 120
Sacramento, CA 95833
(916) 525-1565
FAX: (916) 525-1573
Email: office@turleymech.com

Project Engineer:	BP	Job Number:	25125
Project Manager:	NS	Plot Date: Mar 27, 2025 - 1:33pm	
Project Drafter:	AH	Login: Zhenken	

DRAWN: T&A
CHECKED: T&A

REVISIONS:

.	.

DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE
MECHANICAL CONTROLS

SHEET NO.
M6.1

PLUMBING ABBREVIATIONS

ABV	ABOVE
ABC, OH	ABOVE CEILING, OVERHEAD
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AIP	ABANDON IN PLACE
BR	BRANCH
CL	CENTERLINE
CO	CLEANOUT
CW	COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DIA, ø	DIAMETER
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FSR	FIRE SPRINKLER RISER
GCO	GRADE CLEANOUT
HW	HOT WATER
HWR	HOT WATER RETURN
I.E.	INVERT ELEVATION
(N) (E)	NEW, EXISTING
NIC	NOT IN CONTRACT
POC	POINT OF CONNECTION
P, TRV	PRESSURE & TEMPERATURE RELIEF VALVE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R) (D)	RISE, DROP
RD, OFL	ROOF DRAIN, OVERFLOW
RI	ROUGH-IN
RO	RUN-OUT
SMS	SHEET METAL SCREWS
SOV	SHUT OFF VALVE
TA, FA	TO ABOVE, FROM ABOVE
TB, FB	TO BELOW, FROM BELOW
TBR	TO BE REMOVED
TP	TRAP PRIMER
UG, UF	UNDERGROUND, UNDERFLOOR
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
V, VR, VTR	VENT, VENT RISER, VENT THRU ROOF
WT	WATERTIGHT
WCO	WALL CLEANOUT

DSA EQUIP. ANCHOR. & BRACING NOTES

M/E/P COMPONENT ANCHORAGE NOTES:

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 TRAVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE 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 THE DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK AND ELECTRICAL CONDUIT:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, AND 13.6.8; AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING THE BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED 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: PROJECT SPECIFIC DESIGN

☐ MP ☐ MD ☐ PP ☐ E – OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL

☐ MP ☐ MD ☐ PP ☐ E – OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

APPLICABLE CODES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

A) STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24,

2022 EDITION OF THE CALIFORNIA BUILDING CODE.
2022 EDITION OF THE CALIFORNIA ELECTRICAL CODE.
2022 EDITION OF THE CALIFORNIA FIRE CODE.
2022 EDITION OF THE CALIFORNIA MECHANICAL CODE.
2022 EDITION OF THE CALIFORNIA PLUMBING CODE.

B) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) LIFE SAFETY CODE

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE NAME	SYMBOL	VENT	WASTE		COLD WATER		HOT WATER	
			BR	RI	BR	RI	BR	RI
SINK	S	1½"	2"	1½"	¾"	½"	¾"	½"

PLUMBING LEGEND

	COLD WATER LINE
CD	CONDENSATE DRAIN
F	FIRE SERVICE LINE
G	GAS
	HOT WATER LINE
	HOT WATER RETURN
OFL	OVERFLOW
RWL	RAINWATER LEADER
	RISE OR DROP IN DIRECTION OF FLOW
	SANITARY SOIL OR WASTE LINE
SCD	SECONDARY CONDENSATE DRAIN LINE
TP	TRAP PRIMER LINE
	VENT
	CLEANOUT & WALL CLEANOUT
	FIRE DEPARTMENT CONNECTION
	FLOOR/ GRADE CLEAN OUT
	FLOOR DRAIN
	HOSE BIBB/ WALL HYDRANT
	TRAP
	TRAP PRIMER
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	FLEXIBLE CONNECTION
	GATE VALVE
	SHUT OFF COCK
	PRESSURE GAUGE
	PRESSURE REDUCING VALVE
	REDUCER
	PRESSURE & TEMPERATURE RELIEF VALVE
	SHUT OFF VALVE
	STRAINER
	STRAINER & DRAIN VALVE WITH HOSE FITTING
	SOLENOID VALVE
	THERMOMETER
	UNION

COMPLIANCE NOTES

MECHANICAL AND PLUMBING EQUIPMENT SHALL CONFORM TO THE FOLLOWING AS STATED IN THE ENERGY EFFICIENCY STANDARDS, 2022.

1. BE CERTIFIED BY THE MANUFACTURER AS COMPLYING WITH THE EFFICIENCY REQUIREMENTS AS PRESCRIBED IN SECTIONS:

   110.1 APPLIANCES REGULATED BY THE APPLIANCE EFFICIENCY STANDARDS:
   110.2 HVAC EQUIPMENT EFFICIENCY AND PACKAGED CONTROLS:
   110.3 SERVICE WATER HEATING EFFICIENCY AND CONTROLS:
   110.4 POOL AND SPA HEATING EFFICIENCY AND CONTROLS:
   110.5 RESTRICTIONS ON PILOT LIGHTS:

2. BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH SECTIONS.

   120.1 REQUIREMENTS FOR VENTILATION:
   120.2 REQUIRED CONTROLS FOR HVAC SYSTEMS:
   102.2 (H) DEMAND SHED CONTROLS.
   120.2 (I) ECONOMIZER FAULT DETECTION & DIAGNOSTIC.
   120.3 REQUIREMENTS FOR PIPE INSULATION:
   120.4 REQUIREMENTS FOR DUCT INSULATION:
   120.5 REQUIREMENTS FOR MECHANICAL SYSTEMS
   120.8 BUILDING COMMISSIONING:
   120.9 REQUIREMENTS FOR COMMERCIAL BOILERS

PIPING MATERIAL SCHEDULE

1. SOIL, STORM, WASTE AND VENT PIPE UNDERGROUND AND TO 6" ABOVE GROUND: SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS, ASPHALTIC COATED, CONFORMING TO CAST IRON SOIL PIPE INSTITUTE STANDARD #301 ASTM A-888 OR ASTM A-74 AND SO STAMPED. JOINTS SHALL BE NO-HUB CONFORMING TO CAST IRON SOIL PIPE INSTITUTE STANDARD #310; TY-SEAL OR EQUAL WITH GASKETS CONFORMING TO ASTM C 564 AND ASTM A74. SUSPENDED PIPE WITH NO-HUB JOINTS SHALL HAVE A SWAYBRACE AT 20'-0" MAXIMUM SPACING.

2. WASTE AND VENT PIPE ABOVE GROUND FROM LAVATORIES OR SINKS, RAINWATER LEADERS AND OVERFLOWS ABOVE THE FLOOR: CAST IRON SOIL PIPE AND FITTINGS WITH NO HUB JOINTS CONFORMING TO THE REQUIREMENTS OF CISPI STANDARD 301, ASTM A-888 OR ASTM A-74 FOR ALL PIPE AND FITTINGS. JOINTS SHALL CONFORM TO CISPI 310 AND SHALL BE HUBLESS COUPLINGS COMPOSED OF STAINLESS STEEL SHIELD, CLAMP ASSEMBLY AND ELASTOMERIC SEALING SLEEVE. DWV DRAINAGE TUBING AND FITTINGS ARE ACCEPTABLE WHEN APPROVED. CONDENSATE DRAINS SHALL BE TYPE L HARD COPPER, WITH LONG SWEEP ELBOWS AND CLEANOUT TEES AT EACH CHANGE IN DIRECTION. CONNECT CONDENSATE DRAINS TO AIR CONDITIONING UNITS WITH P-TRAP AND RUN TO AN APPROVED RECEPTOR AND DRY WELL. PROVIDE VIBRATION ELIMINATORS AT A.C. UNITS.

3. WATER PIPE (HOT AND COLD WATER): TYPE L COPPER TUBING, HARD TEMPER, WITH WROUGHT COPPER FITTINGS. CAPPED OR PLUGGED OUTLETS SHALL BE SCHEDULE 40 SCREWED BRASS. PROVIDE FULL SOLDER CUP FITTINGS.

4. GAS PIPE: SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS ABOVE GRADE; WELDED BELOW GRADE WITH CLASS 150 WELDING FITTINGS. CONNECT TO EACH ITEM OF GAS-FIRED EQUIPMENT WITH DRIP LEG AND VALVE. PROVIDE FLEX CONNECTION IN APPROVED SIZES WHERE APPLICABLE

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S OR W	V	CW	HW	DESCRIPTION
CS-1	CLASSROOM SINK	2"	1-1/2"	1/2"	-	JUST MODEL CRA-ADA-1931-A-GR, 19"x31"x5-1/2" DEEP BOWL, SINGLE COMPARTMENT, 18 GA., TYPE 304 STAINLESS STEEL WITH CENTRAL DRAIN, SELF RIMMING, J-35-SSF STRAINER, CHICAGO MODEL 350-GN8AE35ABCP, 1.5 GPM, LEVER HANDLE GOOSENECK FAUCET AT CENTER OF LEFT LEDGE, CHICAGO MODEL 748-665ABCP-E35-317XKABCP BUBBLER. PROVIDE SUPPLIES, STOPS AND 17 GA CHROME PLATED BRASS P-TRAP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modern Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
BRYANT J. PROFESSIONAL
No. M030446
Exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

TURLEY & ASSOCIATES | MECHANICAL ENGINEERING GROUP, INC.
1960 Creekside Oaks Drive, Suite 120, Sacramento, CA 95833
(916) 325-1999 FAX: (916) 325-1015
Email: office@turleymech.com

Project Engineer	BP	Job Number	25125
Project Manager	NS	Plot Date: Mar 27, 2025 - 1:34pm	
Project Drafter	ZH	Login: Zhaohan	

DRAWN: T&A
CHECKED: T&A
REVISIONS:

.	.

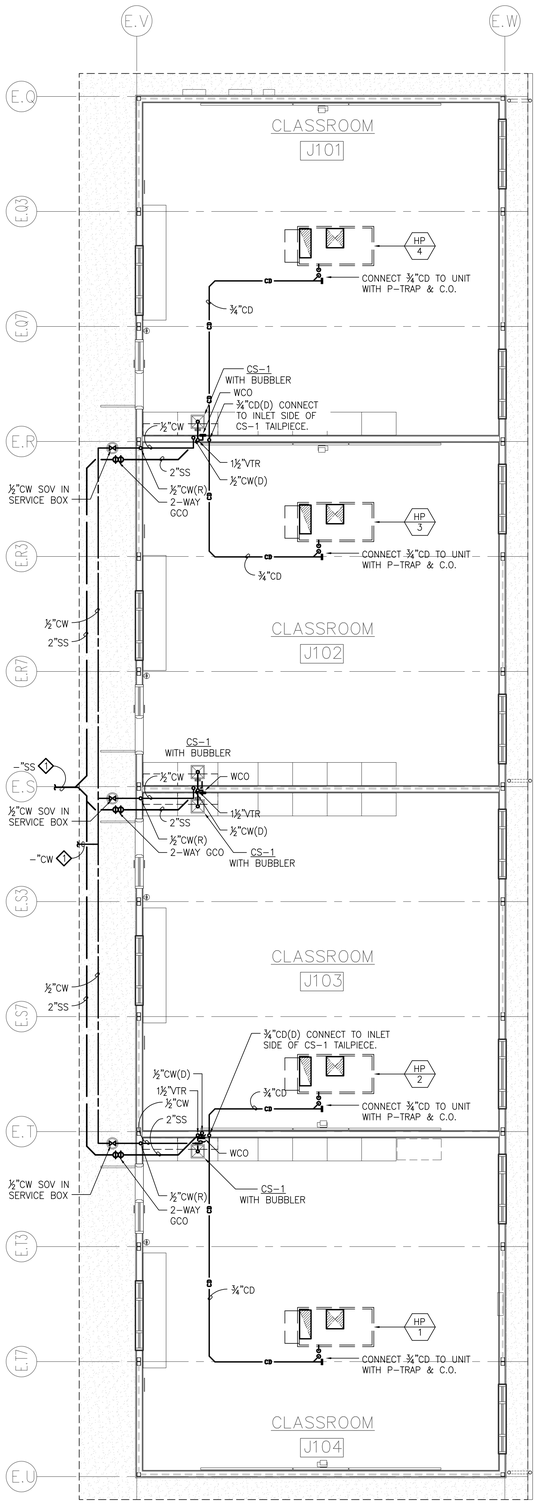
DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE
PLUMBING LEGEND, SCHEDULES AND NOTES

SHEET NO.
P0.1

KEY NOTES:

1. FOR CONTINUATION SEE CIVIL UTILITY PLAN C3.1



A OVERALL PLUMBING FLOOR PLAN

SCALE: 3/16" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY

1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
BRYANT J. PROVENCHER
No. M030446
Exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

TURLEY & ASSOCIATES MECHANICAL ENGINEERING GROUP, INC.
1760 Creekside Oaks Drive
Suite 120
Sacramento, CA 95833
(916) 325-1900
FAX: (916) 325-1070
Email: office@turleymech.com

Project Engineer:	BP	Job Number:	25125
Project Manager:	NS	Plot Date: Mar 27, 2025 - 1:34pm	
Project Drafter:	CH	Login: JDennen	

DRAWN: T&A
CHECKED: T&A
REVISIONS:

DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE

PLUMBING FLOOR PLANS

SHEET NO.

P2.1

SECTION 22 05 00
PLUMBING AND UTILITIES

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK:

A. The requirements of the general conditions and Division 1 apply to all work hereunder; also, applicable provisions of Section 23 05 00 Mechanical Work - General Requirements.

B. Furnish and install all plumbing work indicated on the Drawings and described herein. Also, any incidental work not shown or specified necessary to provide the complete system.

1.02 SERVICES:

A. Make all arrangements for the utilities required. Pay all costs involved in obtaining the services, including water meter and access box, street work, in lieu fees for sewer, etc.

B. Verify the location of all services. No extra cost shall be allowed if services are not as shown.

C. Determine storm and sanitary sewer elevation at point of connection before installing any sewer piping. Notify Architect immediately if indicated grades cannot be maintained.

1.03 RECORD DRAWINGS:

A print of the plumbing plan showing underground piping will be furnished by the Contractor on which he shall indicate the locations of the underground installations as the work progresses. This shall be returned to Architect at completion of job.

PART 2 - PRODUCTS

2.01 CLEANOUTS:

A. Cleanouts shall be "T" or "Y" branches or trap hubs of same material as pipe in which they are placed. Cleanouts in cast iron lines shall have cast iron bodies with brass plugs. Cleanouts in floors and sidewalks shall be Josam 56010 or 56030 for ceramic tile floors with nickel bronze covers. Cleanouts in vertical lines shall be Josam 58710. Furnish cleanouts at ends of branch lines, at the base of vertical lines, at changes in direction and where shown or required to facilitate cleaning, a maximum spacing of 50' inside buildings, 100' outside, also in waste drop from each sink and urinal. Cleanout to grade shall be set in 14" x 14" x 5" deep concrete pad, trowel smooth and edge; set flush with finished grade. Cleanouts to be full size of line up to a maximum of 4". Cleanouts shall clear all obstructions by 18" minimum. Furnish to Owner one wrench for each size

and type of cleanout used. Permanently identify exterior cleanouts: SS for sanitary sewer, SD for storm drain.

2.02 PIPE AND FITTINGS INSIDE BUILDING:

A. See General Requirements, Section 23 05 00, for dielectric fittings and pipe protection. Terminate 5'-0" outside the building line or where marked.

B. Soil, Storm, Waste and Vent Pipe underground and to 6" above ground: Service weight cast iron soil pipe and fittings, asphaltic coated, conforming to Cast Iron Soil Pipe Institute Standard #301 ASTM A-888 or ASTM A-74 and so stamped. Joints shall be No-Hub conforming to Cast Iron Soil Pipe Institute Standard #310; Ty-Seal or equal with gaskets conforming to ASTM C 564 and ASTM A74. Suspended pipe with No-Hub joints shall have a swaybrace at 20'-0" maximum spacing.

C. Waste and Vent Pipe above ground from lavatories or sinks, rainwater leaders and overflows above the floor: Cast iron soil pipe and fittings with no hub joints conforming to the requirements of CISPI Standard 301, ASTM A-888 or ASTM A-74 for all pipe and fittings. Joints shall conform to CISPI 310 and shall be hubless couplings composed of stainless steel shield, clamp assembly and elastomeric sealing sleeve. DWV drainage tubing and fittings is acceptable when approved. Condensate drains shall be Type L hard copper, with long sweep elbows and cleanout tees at each change in direction. Connect condensate drains to air conditioning units with P-trap and run to an approved receptor and dry well. Provide vibration eliminators at A.C. units.

D. Water Pipe (Hot and Cold Water): Type L copper tubing, hard temper, with wrought copper fittings. Capped or plugged outlets shall be Schedule 40 screwed brass. Provide full solder cup fittings.

2.03 FIXTURES AND TRIM:

A. Designations are American Standard unless noted. Kohler, Eljer, are acceptable if equal in utility, quality and appearance.

B. P-traps for lavatories and sinks shall be 17-gauge chrome plated brass, adjustable. Provide offset P-traps for handicapped sinks in order to maintain ADA clearances.

C. Concealed stops shall be 1/2" Speedway SSR44, lock shield valves. 3/4" stops shall be Dick Bros. #3150-LK. Exposed stops and supplies shall be 1/2" Speedway #S3712A for LAVS, S3712DL for water closets with IPS inlet, lock shield, loose key.

D. Hose Bibb: 3/4" Acorn #8121 interior, 8136 exterior wall mount, mounted 18" above finished grade or floor, C.P. cast bronze, lock shield, loose key. Exterior box mounted Acorn 8151 with locking door, Acorn 8126 for planters and roof areas, hot and cold water type Acorn 8156.

3.04 PIPING CONNECTION:

A. Minimum grade on drain, vent, and waste piping shall be 1/4" per foot unless noted, or later approved. Vent piping shall be graded to a soil or waste line.

B. Connections from stacks or horizontal wastes to wall or floor finish for wastes from lavatories, urinals, sinks, and drinking fountains and connection between floor drains and traps shall be IPS 85% red brass pipe.

3.05 CLEANOUTS:

A. Furnish cleanouts at ends of branch lines, at the base of vertical lines, at changes in direction and where shown or required to facilitate cleaning, a maximum spacing of 50 feet inside buildings, 100 feet outside, also in waste drop from each sink. Cleanout to grade shall be set in a 14" x 14" x 5" deep concrete pad, trowel smooth and edge, set flush with finished grade. Cleanouts to be full size of line up to a maximum of 6". Cleanouts shall clear all obstructions by 18" minimum. Furnish to Owner one wrench for each size and type of cleanout used. Permanently identify cleanouts: SS for sanitary sewer.

3.06 FIXTURES AND TRIM:

A. Install all fixtures at locations shown on architectural drawings. Provide proper backing for hanging brackets and hold down screws 2 x 6 blocking secured with U.J.H. clips or carriers as specified. Grout voids between all fixtures and adjacent surfaces with clear Dow Silicon Sealant. Install hold down screws and wall hung lavatories.

E. See drawings for fixtures.

F. Install valve lever on handicap water closets on wide side of fixture.

G. Operating handle or valve for handicapped fixtures shall operate with less than 5 pounds force.

PART 3 - EXECUTION

3.01 SERVICES:

A. Make all arrangements for the utilities recuired. Pay all costs involved in obtaining the services including gas service and meter, water meter, pressure reducing valve, access boxes, street work.

B. Verify the location of all services. No extra cost shall be allowed if services are not as shown.

C. Determine storm and sanitary sewer elevation at point of connection before installing any sewer piping. Notify Architect immeciately if indicated grades cannot be maintained.

3.02 RECORD DRAWINGS:

A. A print of the plumbing plan showing underground piping will be furnished to the Contractor on which he shall indicate the locations of the underground installations as the work progresses. This shall be returned to the Architect at completion of job.

3.03 DISINFECTION:

A. Clean and disinfect all hot and cold water systems connected to domestic water systems in accordance with AWWA Standard C651 and as required by the local building and health department codes. This procedure shall be performed by a water treatment company that has a current Cal-EPA license to apply disinfectant chlorine in potable water.

B. Preliminary Preparation: Provide a 1" service cock or valve connected to system at a point within 2'-0" of its junction with water supply line and inject disinfecting agent into system through this cock. When project is complete, with all fixtures connected and operable and ready for use and when, by test, system is proved to be free from leaks, it shall be thoroughly flushed by fully opening every outlet and operating every fixture until clear water flows from all of them.

C. Disinfecting Agent: The chlorine shall be a registered product with Cal-EPA for use in California in potable water lines, such as Bacticide, Cal-EPA Registration No. 37982-20001.

D. Disinfecting Procedure: Connect a hand operated pump, 100 psi rating, minimum to the 1" service cock or valve.

1. With system completely full of water and supply valve open, adjust every faucet of system so that a trickle of water flows from each.

2. Inject disinfectant until an orthotoldin test at each outlet shows a chlorine residual concentration of at least 50 parts per million (p.p.m.).

3. Close all outlets and valves, including valve connecting to water supply line and 1" service cock on solution injection connection. Maintain condition for 24 hours and chlorine residual of 50 p.p.m. should be retained in system for this 24 hour period. If, after 24 hours, orthotolidin tests indicate that chlorine residual concentration has decreased below 50 p.p.m. then disinfection procedure must be repeated until an approved result is obtained.

4. When the above procedure has been completed, flush out entire system with fresh water until an orthotolidin test at any outlet shows a residual of not more than 0.5 p.p.m.

5. Warning signs shall be provided at all outlets while chlorinating the system.

3.04 PIPING CONNECTION:

A. Minimum grade on drain, vent, and waste piping shall be 1/4" per foot unless noted, or later approved. Vent piping shall be graded to a soil or waste line.

B. Connections from stacks or horizontal wastes to wall or floor finish for wastes from lavatories, urinals, sinks, and drinking fountains and connection between floor drains and traps shall be IPS 85% red brass pipe.

3.05 CLEANOUTS:

A. Furnish cleanouts at ends of branch lines, at the base of vertical lines, at changes in direction and where shown or required to facilitate cleaning, a maximum spacing of 50 feet inside buildings, 100 feet outside, also in waste drop from each sink. Cleanout to grade shall be set in a 14" x 14" x 5" deep concrete pad, trowel smooth and edge, set flush with finished grade. Cleanouts to be full size of line up to a maximum of 6". Cleanouts shall clear all obstructions by 18" minimum. Furnish to Owner one wrench for each size and type of cleanout used. Permanently identify cleanouts: SS for sanitary sewer.

3.06 FIXTURES AND TRIM:

A. Install all fixtures at locations shown on architectural drawings. Provide proper backing for hanging brackets and hold down screws 2 x 6 blocking secured with U.J.H. clips or carriers as specified. Grout voids between all fixtures and adjacent surfaces with clear Dow Silicon Sealant. Install hold down screws and wall hung lavatories.

B. All exposed piping, bibbs, stops, faucets, traps, flush valves and other trim for all fixtures shall be chrome plated including piping inside sink cabinets. Provide Hudee rim for all counter type sinks and lavatories. Enameled ware shall be cast iron with acid resisting enamel.

C. Provide 85% or IPS red brass pipe, securely anchored to building construction, for each connection to faucets, flush valves, stops, hose bibbs, etc. Each fixture except hose bibbs, shall have a stop valve installed on water supply lines to permit repairs without shutting off water mains.

D. Installation for handicap accessible fixtures shall conform to Chapter 16 California Plumbing Code, Section 1115 B California Building Code, and ADA requirements.

END OF SECTION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modern Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
BRYANT J. PROVENCHER
No. M030446
Exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

TURLEY & ASSOCIATES | MECHANICAL ENGINEERING GROUP, INC.
1452 Creekside Oaks Drive, Suite 120, Sacramento, CA 95833
(916) 325-1555 FAX: (916) 325-1575 Email: office@turleymech.com

Project Engineer:	BP	Job Number:	25125
Project Manager:	NS	Plot Date: Mar 27, 2025 - 1:34pm	
Project Drafter:	CH	Login: JDavison	

DRAWN: T&A
CHECKED: T&A
REVISIONS:

.	.

DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE
PLUMBING SPECIFICATIONS

SHEET NO.
P4.1

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	4.93	4.93	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**19.96**	**19.95**	**0.01 (0.1%)**

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

C6. 'ABOVE CODE' QUALIFICATIONS

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

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

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	12.3	19.77	-7.47
Space Cooling	62.59	56.98	5.61
Indoor Fans	97.03	74.72	22.31
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	30.63	30.69	-0.06
Indoor Lighting	31.96	31.96	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**234.51**	**214.12**	**20.39 (8.7%)**
Photovoltaics	-49.97	-53.91	3.94
Batteries	-5.03	---	-5.03
TOTAL COMPLIANCE	**179.51**	**160.21**	**19.3 (10.8%)**

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

Project Name: Davis Elementary School **Date Prepared:** 2025-03-11

A. General Information

1	Project Name	Davis Elementary School			
2	Run Title	Title 24 Analysis			
3	Project Location	5224 E. Morada Lane			
4	City	Stockton	5	Standards Version	Compliance 2022
6	Zip code	95212	7	Compliance Software (version)	EnergyPro 9.4
8	Climate Zone	12	9	Building Orientation (deg)	0
10	Building Type(s)	• Nonresidential	11	Weather File	STOCKTON_STYP20.epw
12	Project Scope	• New envelope and mechanical	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	3614	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	3614	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	1.4	2.3	-0.9	---	---	---
Space Cooling	5.6	4.8	0.8	---	---	---
Indoor Fans	12.3	9.4	2.9	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	4.5	4.5	0	---	---	---
Indoor Lighting	4.4	4.4	0	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**28.2**	**25.4**	**2.8**	**0**	**0**	**0**
Photovoltaics	-9.3	-9.8	0.5	---	---	---
Batteries	0.1	---	---	---	---	---
ENERGY USE SUBTOTAL	**19**	**15.6**	**3.4**	**0**	**0**	**0**
Receptacle	9.6	9.6	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**28.6**	**25.2**	**3.4**	**0**	**0**	**0**

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

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	65.59	65.59	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**245.1**	**225.8**	**19.3 (7.9%)**

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

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	☒	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☐	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	35.78	33.04	2.74	7.66
NET EUI[1]	27	23.79	3.21	11.89

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

D1. EXCEPTIONAL CONDITIONS

• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

F1. REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception[1]	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
6		Standard (14-17%)	Fixed	none	false	180	Degrees	22	4.85	96	100

[1] *See Table D1 for any PV exceptions used.*

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

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	1.66	2.75	-1.09
Space Cooling	2.35	2.08	0.27
Indoor Fans	8.31	6.73	1.58
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	2.78	2.79	-0.01
Indoor Lighting	2.57	2.57	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**17.67**	**16.92**	**0.75 (4.2%)**
Photovoltaics	-1.78	-1.9	0.12
Batteries	-0.86	---	-0.86
TOTAL COMPLIANCE	**15.03**	**15.02**	**0.01 (0.1%)**

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

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	234.51	179.51	15.03
Proposed Design	214.12	160.21	15.02
Compliance Margins	**20.39**	**19.3**	**0.01**
	Pass	**Pass**	**Pass**

[1] *Efficiency measures include improvements like a better building envelope and more efficient equipment*
[2] *Compliance Totals include efficiency, photovoltaics and batteries*
[3] *New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modern Modular Buildings, Inc. and are not to be reproduced, changed or copied without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER — BRIAN J. PROVENCAL — No. M030446 — Exp. 12/31/27 — MECHANICAL — STATE OF CALIFORNIA

TURLEY & ASSOCIATES — MECHANICAL ENGINEERING GROUP, INC.
1760 Creekside Oaks Drive, Suite 120, Sacramento, CA 95833
(916) 325-1000 FAX: (916) 325-1019 Email: office@turleymech.com

Project Engineer	BP	Job Number	25125
Project Manager	NS	File Date	Mar 27, 2025 - 1:34pm
Project Drafter	ZH	Login	Zhleman

DRAWN: T&A
CHECKED: T&A
REVISIONS:

.	.

DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE
TITLE 24 REPORTS

SHEET NO.
T-24A

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title & System Name(s)
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
	HP-1, HP-2, HP-3 and HP-4.
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.
	HP-1, HP-2, HP-3 and HP-4.
Mechanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
	HP-1, HP-2, HP-3 and HP-4.

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

Documentation Author's Declaration Statement

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

Documentation Author Name: Austin Hoang	Documentation Author Signature: Austin
Company: Turley & Associates	Signature Date: 2025-03-11
Address: 1760 Creekside Oaks Dr, Suite 120	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Sacramento, CA 95833	Phone:

Responsible Person's Declaration statement

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

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

Responsible Designer Name:	Responsible Designer Signature:	
Company: Meehleis Modular Buildings, INC.		
Address:	Date Signed:	
City/State/Zip: ,	License #:	
Phone:	Title:	Scope:
Responsible Designer Name: Brian J. Provencal	Responsible Designer Signature:	
Company: Turley & Associates		
Address: 1760 Creekside Oaks Dr, Suite 120	Date Signed: 2025-03-11	
City/State/Zip: Sacramento, CA 95833	License #: M030446	
Phone:	Title:	Scope:

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
HP-1	Single Zone Heat Pump (SZHP) Air System	1	44.79	25.59	HSPF2	7.2	42.53	EER2 SEER2	12 15.6	Differential DB	N
HP-2	Single Zone Heat Pump (SZHP) Air System	1	44.79	25.59	HSPF2	7.2	42.53	EER2 SEER2	12 15.6	Differential DB	N
HP-3	Single Zone Heat Pump (SZHP) Air System	1	44.79	25.59	HSPF2	7.2	42.53	EER2 SEER2	12 15.6	Differential DB	N
HP-4	Single Zone Heat Pump (SZHP) Air System	1	44.79	25.59	HSPF2	7.2	42.53	EER2 SEER2	12 15.6	Differential DB	N

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

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
			Supply Fan				Return / Relief Fan					
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status[1]
HP-1	1	339.34	1,600	0.52	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HP-2	1	349.98	1,600	0.52	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HP-3	1	344.66	1,600	0.52	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HP-4	1	339.34	1,600	0.52	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

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

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
HP-1	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential DB
HP-2	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential DB
HP-3	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential DB
HP-4	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential DB

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
	Mechanical Ventilation					
Zone Name	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-J101 Classroom	Education - Classrooms (ages 9-18)	22.32	339.34	0	893	DCV
2-J102 Classroom	Education - Classrooms (ages 9-18)	23.02	349.98	0	921	DCV
3-J103 Classroom	Education - Classrooms (ages 9-18)	22.68	344.66	0	907	DCV
4-J104 Classroom	Education - Classrooms (ages 9-18)	22.32	339.34	0	893	DCV

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
1-J101 Classroom-Trm	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
2-J102 Classroom-Trm	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
3-J103 Classroom-Trm	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
4-J104 Classroom-Trm	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
	NRCI-SAB-E - Solar Water Heating, PV and Battery Storage Systems

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title & System Name(s)
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	HP-1, HP-2, HP-3 and HP-4.
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
	HP-1, HP-2, HP-3 and HP-4.

F1B. PV BATTERY BUILDING TYPE(S)

01	02	03
Building Occupancy Type* (From Table 140.10-A/B and 170.2-U/V)	Conditioned Floor Area (ft²)	Unconditioned Floor Area (ft²)
Grocery	0	0
High-Rise Multifamily	0	0
Office, Financial Institutions, Unleased Tenant Space	0	0
Retail	0	0
School	3614	0
Warehouse	0	0
Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater	0	0
None	0	0

** Building Occupancy Types are defined in Section 100.1 of the Energy Code*

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	375	0	0
East-Facing[2]	1399	144	10.29
South-Facing[3]	375	0	0
West-Facing[4]	1399	114	8.15
Total	**3548**	**258**	**7.27**
Roof	3614	0	0

Notes
[1] North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),
[2] East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),
[3] South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),
[4] West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
Com-Floor 1	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
					Continuous R-Value					
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Interior	Exterior	Units	Value	Description of Assembly Layers	Status[1]
Slab On Grade6	Underground Floor	3,614	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
R-38 Metal Roof8	Roof	3,614	Metal	38	N/A	N/A	U-factor	0.0727	Metal Standing Seam - 1/16 in. Plywood - 1/2 in. Composite-1	N
R-21 Wall10	Exterior Wall	3,548	Wood	21	N/A	N/A	U-factor	0.0691	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-2 Gypsum Board - 1/2 in.	N

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

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[1]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Window	Vertical fenestration Fixed window N/A	NFRC	Manufactured	258	0.32	0.25	0.5	N

[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A - Altered, E - Existing

G8. OVERHANG DETAILS

01	02	03	04	05	06	07
Fenestration Tag/ ID	Azimuth	Depth (ft)	Height from Top of Sill to Overhang (ft)	Right Extent (ft)	Left Extent (ft)	Flap Height
Window (E)11	90	2	5.75	2	2	N/A
Window (W)13	270	5	8.75	2	2	N/A
Window (E)18	90	2	5.75	2	2	N/A
Window (W)20	270	5	8.75	2	2	N/A
Window (E)24	90	2	5.75	2	2	N/A
Window (W)26	270	5	8.75	2	2	N/A
Window (E)30	90	2	5.75	2	2	N/A
Window (W)33	270	5	8.75	2	2	N/A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Building Inst. and are not to be reproduced, changed or used without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
BRIAN J. PROVENCAL
No. M030446
Exp. 12/31/27
MECHANICAL
STATE OF CALIFORNIA

TURLEY & ASSOCIATES MECHANICAL ENGINEERING GROUP, INC.
1760 Creekside Oaks Drive
Suite 120
Sacramento, CA 95833
(916) 325-1900
FAX: (916) 325-1070
Email: office@turleytech.com

Project Engineer	BP	Job Number	25125
Project Manager	NS	Plot Date	Mar 27, 2025 - 1:34pm
Project Drafter	ZH	Login	Zherman

DRAWN: T&A
CHECKED: T&A
REVISIONS:

DATE JAN. 24, 2024
JOB NO. 25775

SHEET TITLE
TITLE 24 REPORTS

SHEET NO.
T-24B

LUMINAIRE SYMBOLS

- LUMINAIRE - RECESSED.
- LUMINAIRE - SURFACE MOUNT STRIP.
- LUMINAIRE - SURFACE MOUNT.
- LUMINAIRE - PENDANT MOUNT LINEAR FIXTURE.
- LUMINAIRE - WALL MOUNT LINEAR FIXTURE.
- LUMINAIRE - RECESSED DOWNLIGHT.
- LUMINAIRE - SINGLE WALL WASHER.
- LUMINAIRE - DOUBLE WALL WASHER.
- LUMINAIRE - CORNER WALL WASHER.
- LUMINAIRE - PENDANT MOUNT ROUND FIXTURE.
- LUMINAIRE - WALL MOUNT CAN.
- LUMINAIRE - WALL MOUNT BOX.
- EXIT LIGHT - WALL MOUNT SINGLE FACE.
- EXIT LIGHT - CEILING MOUNT DOUBLE FACED.
- EXIT LIGHT - WALL MOUNT SINGLE FACE WITH ARROW.
- EXIT LIGHT - CEILING MOUNT DOUBLE FACED WITH DOUBLE ARROWS.
- EXIT LIGHT - EMERGENCY BATTERY PACK.

TYPICAL LUMINAIRE NOMENCLATURE

- UNSHADED SYMBOL DENOTES STANDARD LUMINAIRE.
- SHADED SYMBOL DENOTES EMERGENCY LUMINAIRE.
- A — "A" DENOTES LUMINAIRE TYPE
- L1-3b — "L1" DENOTES PANEL NAME; "3" DENOTES CIRCUIT NUMBER; "b" DENOTES SWITCH LEG

NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING FIXTURE TYPE AND MOUNTING CONDITIONS, REGARDLESS OF SYMBOL SHOWN ON PLANS. COORDINATE WITH EXACT CEILING CONDITIONS TO PROVIDE ALL MOUNTING HARDWARE AND MISC. APPURTENANCES AS REQUIRED FOR A COMPLETE INSTALLATION.
2. REFER TO LUMINAIRE/FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION, MOUNTING, AND LAMPING INFORMATION.
3. SHADED FIXTURES SHALL INDICATE THAT FIXTURE IS CONNECTED TO AN EMERGENCY POWER SOURCE. PROVIDE ALL MISC. APPURTENANCES AS REQUIRED TO ALLOW FIXTURE TO TRANSFER FROM NORMAL TO EMERGENCY POWER. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, TRANSFER MODULES AND/OR UL 924 RELAYS AS REQUIRED TO ALLOW ALL EMERGENCY FIXTURES TO BE CONTROLLED WITH ROOM LIGHTING DURING NORMAL CONDITIONS AND THEN TRANSFER TO EMERGENCY POWER SOURCE UPON LOSS OF NORMAL POWER.
4. PROVIDE ADDITIONAL EXIT SIGNS IN LOCATIONS AS REQUIRED BY INSPECTOR DURING FIELD INSPECTIONS. CONTRACTOR SHALL PROVIDE IN THEIR BID MATERIALS AND INSTALLATION LABOR FOR 5% ADDITIONAL SPARE EXIT SIGNS (MINIMUM OF 1 SIGN) BEYOND THOSE SHOWN ON THE DRAWINGS TO ALLOW FOR FINAL REVIEW, SIGN-OFF, AND APPROVAL BY THE AHJ.

LIGHTING CONTROLS SYMBOLS

- OCCUPANCY SENSOR - CEILING MOUNT WITH BI-DIRECTIONAL VIEW. ARROWS INDICATE AIMING DIRECTION.
- OCCUPANCY SENSOR - CEILING MOUNT WITH 360° VIEW.
- OCCUPANCY SENSOR - WALL MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION.
- PHOTOSENSOR - CEILING MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION.
- PHOTOSENSOR - CEILING MOUNT WITH 360° VIEW.
- PHOTOSENSOR - WALL MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION.
- $ — SINGLE POLE SWITCH - WALL MTD AT + 48" AFF TO TOP OF BOX UON.
- TS — TIME SWITCH
- LCP — LIGHTING CONTROL PANEL
- RC — SWITCHING ROOM CONTROLLER
- DRC — DIMMING ROOM CONTROLLER

TYPICAL SWITCH NOMENCLATURE

- Xy / $ — "y" DENOTES SWITCH LEG; "X" DENOTES SWITCH TYPE
  - D = DIMMER SWITCH
  - K = KEY OPERATED SWITCH
  - L = LOW VOLTAGE MULTI-BUTTON SWITCH
  - M = MOMENTARY CONTACT SWITCH
  - T = DIGITAL WALL TIMER
  - S = OCCUPANCY SENSOR SWITCH
  - BLANK = SINGLE POLE SWITCH
  - 3 = 3 WAY SWITCH
  - 4 = 4 WAY SWITCH
- X — "X" DENOTES SENSOR TYPE
  - BLANK = DUAL TECHNOLOGY
  - D = DUAL TECHNOLOGY
  - P = PASSIVE INFRARED
  - U = ULTRASONIC
- Lx / $ — LOW VOLTAGE MULTI-BUTTON SWITCH; "x" DENOTES SWITCH UNIQUE SWITCH IDENTIFIER (SEE SCHEDULE FOR SWITCH LEGS/RELAYS CONTROLLED)
- Dxyz / $ — DIMMING MULTI-BUTTON SWITCH; "x" "y" "z" (ETC) DENOTE SWITCH LEGS CONTROLLED
- x y z / $$$ — MULTIPLE SWITCHES LOCATED WITHIN A SINGLE WALL PLATE; "x" "y" "z" (ETC) DENOTE SWITCH LEGS CONTROLLED

NOTES

1. INSTALL SWITCHING AND DIMMING ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING. FOR ROOMS WITH GYP BD OR OTHER INACCESSIBLE CEILINGS, PROVIDE 2'X2' ACCESS PANEL WITHIN ARMS LENGTH OF WHERE DEVICES ARE MOUNTED. WHERE INSTALLATION OF AN ACCESS PANEL IS NOT POSSIBLE, INSTALL DEVICES IN CONCEALED IN ADJACENT ACCESSIBLE SPACE AND PROVIDE TYPED, SELF ADHESIVE LABEL NOTING WHICH ROOM THE DEVICES CONTROL.
2. PROVIDE SINGLE WALL PLATE FOR MULTIPLE SWITCHES LOCATED TOGETHER. PROVIDE APPROPRIATE QUANTITY, SIZE, AND SHAPE OF CUT OUTS TO ACCOMMODATE ALL DEVICES AT THAT LOCATION (E.G. REGULAR TOGGLE SWITCH VS. DECORATOR STYLE DEVICE). ALL WALLPLATES SHALL BE FACTORY CUT, NO FIELD CUT OPENINGS SHALL BE ALLOWED.
3. DEVICE LOCATIONS ON PLANS ARE APPROXIMATE AND DIAGRAMMATIC. CONTRACTOR SHALL INSTALL DEVICES PER CODE REQUIREMENTS AND MANUFACTURER RECOMMENDATIONS.
4. LIGHT SWITCHES SHALL NOT BE LOCATED BEHIND ROOM DOORS WHEN DOORS ARE FULLY OPENED. LOCATE ALL SWITCHES SUCH THAT THEY ARE VISIBLE AND ACCESSIBLE WHEN THE DOOR IS FULLY OPEN.

ABBREVIATIONS

A	AMPERE	EMT	ELECTRICAL METALLIC TUBING
ABV	ABOVE	EOL	END OF LINE RESISTOR
AF	AMPERE FRAME, AMPERE FUSE	EQP	EQUIPMENT
AFF	ABOVE FINISHED FLOOR	FA	FIRE ALARM
AIC	AMPERE INTERRUPTING CAPACITY	FACP	FIRE ALARM CONTROL PANEL
ARCH	ARCHITECTURAL	(F)	FUTURE
AS	AMPERE SWITCH	FIN	FINISH
AT	AMPERE TRIP	FLR	FLOOR
ATS	AUTOMATIC TRANSFER SWITCH	G, GND	GROUND
BKR	BREAKER	GRC	GALVANIZED RIGID CONDUIT
BLDG	BUILDING	HGT	HEIGHT
C	CONDUIT	HP	HORSEPOWER
CATV	CABLE TELEVISION	IC	INTERCOM
CB	CIRCUIT BREAKER	IDF	INTERMEDIATE DISTRIBUTION FRAME
CBC	CALIFORNIA BUILDING CODE	IMC	INTERMEDIATE METAL CONDUIT
CD	CANDELA	INFO	INFORMATION
CEC	CALIFORNIA ELECTRICAL CODE	JB	JUNCTION BOX
CFC	CALIFORNIA FIRE CODE	KAIC	KILOAMPERE INTERRUPTING CAPACITY
CKT	CIRCUIT	KV	KILOVOLT
CL	CENTER LINE	KVA	KILOVOLT AMPERE
CLG	CEILING	KW	KILOWATT
CO	CONDUIT ONLY	LTG	LIGHTING
COMM	COMMUNICATIONS	LV	LOW VOLTAGE
CSFM	CALIFORNIA STATE FIRE MARSHALL	MAX	MAXIMUM
CTR	CENTER	KCMIL	THOUSAND CIRCULAR MILS
(D)	DEMOLISH	MDF	MAIN DISTRIBUTION FRAME
DET	DETAIL	MECH	MECHANICAL
DIM	DIMENSION	MH	MANHOLE
DIST	DISTRIBUTION	MIN	MINIMUM
DP	DISTRIBUTION PANEL	MTD	MOUNTED
DWG	DRAWING	MTG	MOUNTING
(E)	EXISTING	NC	NORMALLY CLOSED
ELEC	ELECTRICAL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
EM	EMERGENCY	NIC	NOT IN CONTRACT
		NIEC	NOT IN ELECTRICAL CONTRACT
		NO	NORMALLY OPEN
		NTS	NOT TO SCALE
		NUM, #	NUMBER
		OC	ON CENTER
		P	POLE
		PA	PUBLIC ADDRESS
		PB	PULL BOX
		PF	POWER FACTOR
		PH	PHASE
		PNL	PANEL
		PVC	POLYVINYL CHLORIDE
		(R)	EXISTING TO BE RELOCATED
		REQD	REQUIRED
		REQT(S)	REQUIREMENT(S)
		RM	ROOM
		RSC	RIGID STEEL CONDUIT
		SAD	SEE ARCHITECTURAL DOCUMENTS
		SHT	SHEET
		SPD	SURGE PROTECTIVE DEVICE
		STC	SIGNAL TERMINAL CABINET
		SW	SWITCH
		SWBD	SWITCHBOARD
		T24	CALIFORNIA ENERGY CODE
		TC	TERMINAL CABINET
		TEL	TELEPHONE
		TYP	TYPICAL
		UON	UNLESS OTHERWISE NOTED
		V	VOLT
		W	WATT, WIRE
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

NEW VS. EXISTING

- (N) CONDUIT - CONCEALED IN WALLS OR CEILING.
- (E) CONDUIT - CONCEALED IN WALLS OR CEILING.
- (E) CONDUIT - TO BE REMOVED.
- (N) DEVICE OR EQUIP (EXAMPLE)
- (E) DEVICE OR EQUIP (EXAMPLE)
- (E) DEVICE OR EQUIP TO BE REMOVED (EXAMPLE)

WIRING, CONDUIT, AND RACEWAY SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - EXPOSED.
- CONDUIT - UNDERGROUND / DIRECT BURIAL.
- CONDUIT - FLEX WITH CONNECTION.
- CONDUIT - STUB UP.
- CONDUIT - STUB DOWN.
- —E — CONDUIT - EMERGENCY POWER SYSTEM.
- CONDUIT - CAPPED.
- CONDUIT - CONTINUATION.

POWER DISTRIBUTION SYMBOLS (SINGLE LINE)

- TRANSFORMER (SINGLE LINE)
- STANDARD / EMERGENCY PANEL BOARD
- STANDARD / EMERGENCY DISTRIBUTION PANELBOARD
- SWITCHBOARD
- CIRCUIT BREAKER, 3-POLE UON.
- GROUND ROD
- METER WITH CURRENT TRANSFORMERS. "X" INDICATES METER IDENTIFIER, SEE SCHEDULE.
  - U = UTILITY METER
  - M# = OWNER METER, SEE SPECIFICATIONS

OWNERSHIP OF INSTRUMENTS OF SERVICE

1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.
2. THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION DOCUMENTS, INCLUDING ELECTRONIC FILES, AS INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, CONSULTANT) AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR THROUGH THE CLIENT WITHOUT THE WRITTEN AUTHORIZATION OF THE CONSULTANT.

ELECTRICAL COMPONENT ANCHORAGE NOTES

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL AND TELECOM UTILITIES. "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 STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4'-0" OR GREATER ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT, IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE ATTACHMENTS OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

1. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
2. COMPONENTS WEIGHTING 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 HUNG FROM A WALL.

THE ANCHORAGE OF ALL ELECTRICAL 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 ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTES

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, AND 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

ELECTRICAL DISTRIBUTIONS SYSTEMS (E):

- [X] IR 16-13 SECTION 2.1: PROJECT SPECIFIC DESIGN.
  SHEET NUMBERS:
- [ ] IR 16-13 SECTION 2.2: DESIGN BASED ON OSHPD OPM, PART OF PROJECT SUBMITTAL.
  OPM NUMBERS:
  SHEET NUMBERS:
- [ ] IR 16-13 SECTION 2.2.6: DESIGN BASED ON OSHPD OPM, DEFERRED APPROVAL.

POWER DISTRIBUTION SYMBOLS (PLANS)

- PANELBOARD - FLUSH MOUNTED.
- PANELBOARD - SURFACE MOUNTED.
- DISTRIBUTION PANEL
- SWBD — SWITCHBOARD
- PULL — SWITCHBOARD SECTION - PULL SECTION
- MTR — SWITCHBOARD SECTION - METER SECTION
- MAIN — SWITCHBOARD SECTION - MAIN BREAKER SECTION
- MTR/MN — SWITCHBOARD SECTION - METER AND MAIN BREAKER SECTION
- DIST — SWITCHBOARD SECTION - DISTRIBUTION SECTION
- MOTOR
- EQUIPMENT WITHOUT MOTOR
- EQUIPMENT WITH MOTOR
- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- COMBINATION MAGNETIC STARTER/FUSED DISCONNECT SWITCH
- MAGNETIC STARTER - NEMA SIZE INDICATED.
- VFD — VARIABLE FREQUENCY DRIVE
- MOTOR RATED SWITCH
- T — TRANSFORMER
- GROUND ROD
- G — GENERATOR
- CH 2 — EQUIPMENT TAG - SEE EQUIPMENT SCHEDULE; "CH" = EQUIPMENT TYPE; "2" = UNIQUE IDENTIFIER

RECEPTACLE AND POWER SYMBOLS

POKE THRU	FLR	WALL	CLG	AT HGT	
					SIMPLEX RECEPTACLES
					DUPLEX RECEPTACLES
					QUADRUPLEX RECEPTACLES
					GFCI DUPLEX RECEPTACLES
					GFCI QUADRUPLEX RECEPTACLES
					HALF-CONTROLLED DUPLEX RECEPTACLES
					HALF-CONTROLLED QUADRUPLEX RECEPTACLES
		J	J		JUNCTION BOX

TYPICAL RECEPTACLE NOMENCLATURE

- R1-3 — "R1" DENOTES PANEL NAME; "3" DENOTES CIRCUIT NUMBER
- R1-3 +Y* — "Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE)

NOTES

1. WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO BOTTOM OF DEVICE, UON.
2. WALL MOUNTED DEVICES SHOWN AT A DEFINED HEIGHT SHALL BE MOUNTED WITH THE BOTTOM AT 1" ABOVE COUNTER BACKSPLASH, UON.
   2.1. LOCATIONS WITH OPEN FORWARD APPROACH: +44" AFF MAX
   2.2. LOCATIONS WITH PARALLEL APPROACH: +46" AFF MAX
3. SIZE JUNCTION BOXES AS REQ'D PER CODE. TAPE AND TAG WIRES. COORDINATE WITH EQUIPMENT AND PROVIDE FLEX CONDUIT AND/OR RECEPTACLES AS REQUIRED TO CONNECT EQUIPMENT.

GENERAL SYMBOLS

- 3 / E2.1 — PLAN OR DETAIL DESIGNATION; "3" DENOTES DETAIL OR PLAN NUMBER; "E2.1" DENOTES SHEET NUMBER.
- 3 / - — "-" DENOTES SAME SHEET.
- 2 / E1.0 — SECTION OR ELEVATION DESIGNATION; "2" DENOTES SECTION OR ELEVATION NUMBER; "E1.0" DENOTES SHEET NUMBER.
- 2 / - — "-" DENOTES SAME SHEET.
- # — SHEET NOTE TAG - SEE APPLICABLE NOTE ON SAME SHEET
- XXXX — FEEDER SCHEDULE TAG, SEE APPLICABLE SCHEDULE
- XXXX — CONDUIT SCHEDULE TAG, SEE APPLICABLE SCHEDULE

CODES AND STANDARDS

1. 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES #1 AND #2 (PART 2,TITLE 24, CCR).
2. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
3. 2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR).
4. 2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR).
5. 2022 CALIFORNIA ENERGY CODE (PART 6,TITLE 24, CCR).
6. 2022 CALIFORNIA FIRE CODE (CFC) (PART 9,TITLE 24, CCR).
7. 2022 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR).
8. 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR).
9. 2022 NFPA 72 NATIONAL FIRE ALARM CODE.
10. 2022 NFPA 13 STANDARDS FOR FIRE SPRINKLER SYSTEMS.
11. ADA STANDARDS FOR ACCESSIBLE DESIGN: ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36 APPENDIX A.
12. ADA STANDARDS FOR ACCESSIBLE DESIGN - CODE OF REGULATIONS (INCLUDING AMENDMENTS).

GENERAL NOTES

A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.

B. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE APPLICATION.

C. BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.

D. OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.

F. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.

G. ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

H. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS.

I. ALL CONDUITS SHALL BE A MINIMUM 3/4," UNLESS OTHERWISE NOTED. POWER AND LIGHTING BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. ALL POWER AND FIRE ALARM WIRING SHALL BE RUN IN CONDUIT. THE USE OF ROMEX (NMC) OR BX (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.

J. ALL WIRE SIZING SHOWN ON THE CONSTRUCTION DOCUMENTS UTILIZES ASSUMED ROUTING AND CIRCUIT LENGTHS TO DETERMINE VOLTAGE DROP. CONTRACTOR SHALL VERIFY ALL CIRCUIT LENGTHS WITH ACTUAL FIELD CONDITIONS AND SHALL PROVIDE INCREASED WIRE AND CONDUIT SIZES AS REQUIRED TO LIMIT FEEDERS TO A MAXIMUM OF 2% VOLTAGE DROP AND BRANCH CIRCUITRY TO A MAXIMUM OF 3% VOLTAGE DROP.

K. ALL POWER CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS WITH TIE-BARS AT THE BREAKERS IN THE PANEL SHALL NOT BE ALLOWED.

L. CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS.

M. NOTE THAT BRANCH CIRCUIT WIRING IS NOT SHOWN. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO ALL OUTLETS/FIXTURES/DEVICES. PROVIDE ALL BRANCH CIRCUIT WIRING BASED ON CIRCUIT NUMBERS SHOWN TO COMPLETE THE WIRING SYSTEM.

N. PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION. LABEL EACH END OF THE CONDUIT WITH TYPED, PERMANENT LABEL, TO IDENTIFY WHERE THE OPPOSING END TERMINATES.

O. ALL EQUIPMENT VOLTAGES AND AMPACITY IS BASED ON THE INFORMATION PROVIDED BY OTHER DISCIPLINES AS PART OF THE CONTRACT DOCUMENTS. VERIFY ALL VOLTAGES AND AMPACITIES OF EQUIPMENT WITH GENERAL AND OTHER SUB-CONTRACTORS PRIOR TO ROUGH-IN AND PROVIDE PROVISIONS FOR CORRECT BREAKER, WIRING, AND CONDUIT SIZES BASED ON ACTUAL EQUIPMENT TO BE USED FOR THE PROJECT.

P. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.

Q. CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.

R. PLANS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE.

S. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE ORPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE 110-26.

T. ALL CONTROLS, SWITCHES, AND ELECTRICAL RECEPTACLE OUTLETS SHALL BE NOT MORE THAN +48" AFF TO TOP OF THE OUTLET BOX, NOR LESS THAN +15" AFF TO BOTTOM OF OUTLET BOX PER CBC 11B-308.1.

U. CONTRACTOR SHALL PERFORM ALL TESTING AND COMPLETE ALL DOCUMENTATION FOR THE LIGHTING AND LIGHTING CONTROLS SYSTEM ACCEPTANCE TESTING PER REQUIREMENTS OF CEC SECTION 130.4. SUBMIT ALL DOCUMENTATION TO THE AHJ.

V. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN FIRE SAFETY PLAN.

W. MODULAR CONTRACTOR SHALL PROVIDE CONDUIT AND BACKBOXES FOR ALL LOW VOLTAGE DEVICES. REFER TO SITE ENGINEER'S DRAWINGS FOR DEVICE LOCATIONS.

DRAWING INDEX

E000	GENERAL INFORMATION
E300	LIGHTING AND POWER PLAN
E700	SCHEDULES
E800	DETAILS AND DIAGRAMS
E900	T24 - INTERIOR LTG
E910	T24 - EXTERIOR LTG
E920	T24 - PWR

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever nor are they to be assigned to any third party, without first obtaining the expressed written permission of The Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

PROFESSIONAL ENGINEER — TIMOTHY D. LEHMAN — E19203 EXP. 6-30-26 — ELECTRICAL — STATE OF CALIFORNIA

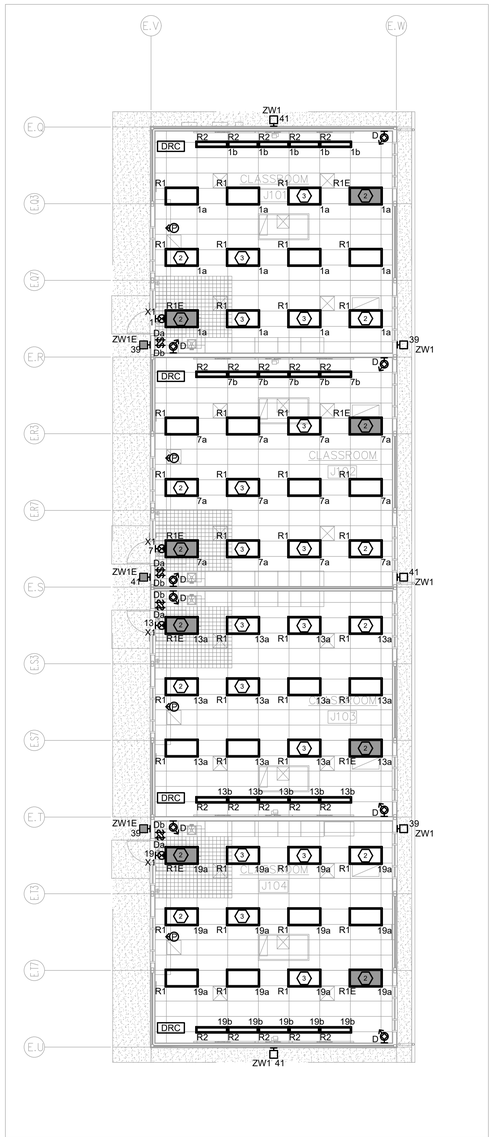
DRAWN: DM
CHECKED: TL
REVISIONS:

DATE AUG 8, 2025
JOB NO. 25775

SHEET TITLE
GENERAL INFORMATION

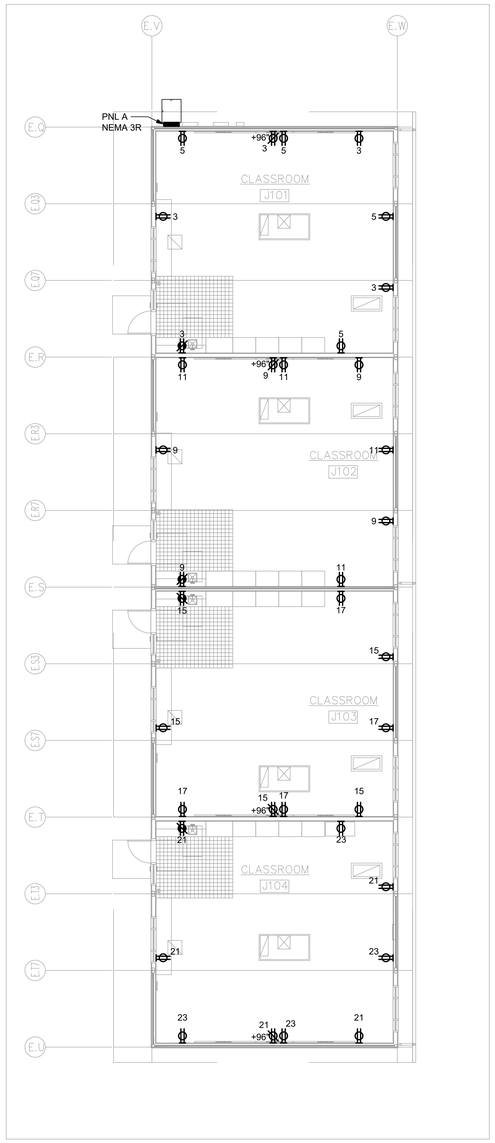
SHEET NO.
E000

FILE LOCATION: G:\shared drives\01_projects\meehleis_97\2497.81 - davis es classroom building\05_drawings\01_DWGs\2497.81 - E000 - GENERAL INFORMATION.dwg
LAST SAVED ON: 8/07/25 at 4:11pm, PLOTTED ON: 8/07/25 at 4:12pm



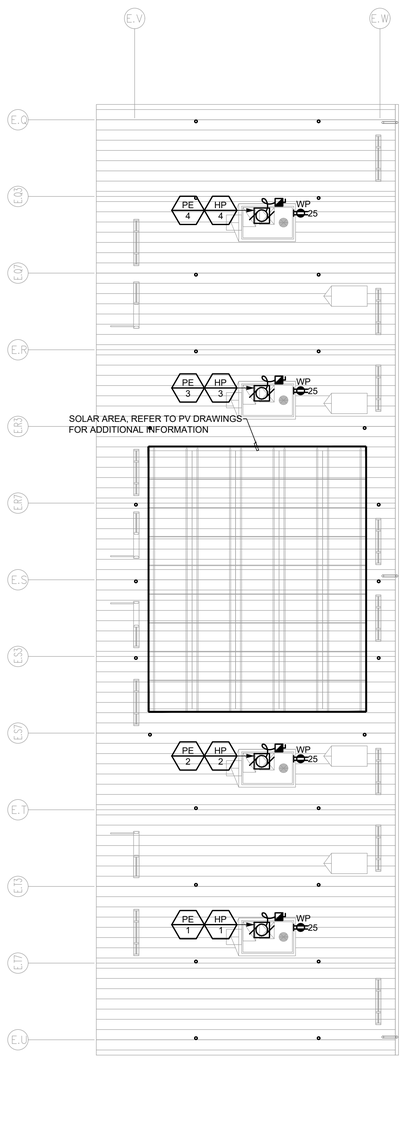
1 LIGHTING RCP

1/8" = 1'-0"



2 POWER PLAN

1/8" = 1'-0"



3 ROOF PLAN

1/8" = 1'-0"

GENERAL NOTES

A. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF ALL LIGHT FIXTURES, EXPOSED CONTROL DEVICES AND LIGHT SWITCHES. VERIFY CEILING TYPE WITH ARCHITECTURAL DOCUMENTS AND COORDINATE TRIMS. PROVIDE ALL REQUIRED FIXTURE MOUNTING HARDWARE. COORDINATE FIXTURE TYPES WITH MOUNTING SURFACE PRIOR TO ORDERING.

B. RUN ALL INTERIOR CONDUIT IN FINISHED INTERIOR AREAS CONCEALED UNLESS OTHERWISE NOTED.

C. PROVIDE U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.

D. PROVIDE SINGLE PLATE WALL COVER FOR MULTIPLE SWITCHES. SEE DRAWINGS FOR NUMBER OF SWITCHES IN SPECIFIC LOCATIONS.

E. CIRCUIT ALL DEVICES ON THIS SHEET TO PANELBOARD A UNLESS OTHERWISE NOTED.

F. SEE DRAWING E800 FOR LIGHT FIXTURE MOUNTING DETAILS.

G. CIRCUIT EXTERIOR LIGHT FIXTURES VIA ASTRONOMIC TIME CLOCK. SEE DETAIL 1/E800.

H. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

I. SEE EQUIPMENT SCHEDULE ELECTRICAL REQUIREMENTS FOR CIRCUITING OF EQUIPMENT AND REFER TO RISER DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTIONS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

SHEET NOTES

1. PROVIDE DIMMING ROOM CONTROLLER FOR SWITCH LEGS INDICATED. WHERE NO SWITCH LEG IS SHOWN, CONTROLLER SHALL CONTROL ALL SWITCH LEGS WITHIN THE SPACE. MOUNT ABOVE ACCESSIBLE CEILING. IN AREAS WITH GYP BD CEILINGS, PROVIDE 2'X2' ACCESS PANEL BENEATH CONTROLLER FOR ACCESS AND MAINTENANCE.

2. THIS FIXTURE IS PART OF THE PRIMARY DAYLIGHT ZONE. LIGHTING IN THIS ZONE SHALL DIM DOWN FIRST. REFER TO SEQUENCE OF OPERATIONS SCHEDULE FOR MORE INFORMATION.

3. THIS FIXTURE IS PART OF THE SECONDARY DAYLIGHT ZONE. LIGHTING IN THIS ZONE SHALL DIM DOWN SECOND. REFER TO SEQUENCE OF OPERATIONS SCHEDULE FOR MORE INFORMATION.

LIGHT FIXTURE MOUNTING NOTES

A. INSTALL ALL RECESSED LAY-IN LUMINAIRES IN SUSPENDED LAY-IN CEILINGS IN ACCORDANCE WITH DSA IR 25-2, SECTION 1.7.

A.A. ALL LUMINAIRES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS PER CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 410.36. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS CAPABLE OF RESISTING A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580 SECTION 5.3.1.

A.B. SURFACE-MOUNTED LUMINAIRES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES ON EACH FIXTURE. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14-GAUGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12-GAUGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE; PROVIDE ADDITIONAL SUPPORTS WHEN LUMINAIRES MEASURE 8-FEET OR LONGER OR EXCEED 56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8-FEE.

A.C. LUMINAIRES WEIGHING LESS THAN OR EQUAL TO 10 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF ONE #12-GAUGE SLACK SAFETY WIRE CONNECTED FROM THE LUMINAIRE HOUSING TO THE STRUCTURE ABOVE.

A.D. LUMINAIRES WEIGHING GREATER THAN 10 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO #12-GAUGE SLACK SAFETY WIRES CONNECTED FROM THE LUMINAIRE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE

A.D.A. EXCEPTION: ALL LUMINAIRES GREATER THAN 2-FEET WIDE BY 4-FEET LONG AND NO MORE THAN 8-FEET LONG WEIGHING LESS THAN 56 POUNDS SHALL HAVE A #12-GAUGE SLACK SAFETY WIRE AT EACH CORNER.

A.E. ALL LUMINAIRES WEIGHING GREATER THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT #12-GAUGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE LUMINAIRE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever without the permission of the Modular Manufacturer.

MEEHLEIS
MODULAR
BUILDINGS, INC.
A DESIGN BUILD
COMPANY

1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY D. LEIS
E19203
EXP. 6-30-26
ELECTRICAL
STATE OF CALIFORNIA

DRAWN: DM
CHECKED: TL
REVISIONS:

DATE AUG 8, 2025
JOB NO. 25775

SHEET TITLE
LIGHTING AND POWER PLAN

SHEET NO.
E300

FILE LOCATION: G:\shared drives\01_projects\meehleis_97\2497.81 - davis es classroom building\05_drawings\01_DWGs\2497.81 - E000 - GENERAL INFORMATION.dwg
LAST SAVED ON: 8/07/25 at 4:11pm, PLOTTED ON: 8/07/25 at 4:12pm

PANELBOARD A

VOLTAGE:	208/120 V	PHASE A:	26856 VA		223.8 A
PHASE/WIRE:	3 PH 4W	PHASE B:	27136 VA		226.1 A
MAIN AMPS:	300 A	PHASE C:	26416 VA		220.1 A
BUS AMPS:	400 A				
AIC RATING	42000 A	CONNECTED:	80408 VA		223.4 A
MOUNTING:	SURFACE	DEMAND:	85156 VA		236.5 A
BUSSING:	TIN-PLATED COPPER				

NOTES	LOAD DESCRIPTION	φ	VA		BKR	CKT		CKT	BKR	VA		φ	LOAD DESCRIPTION	NOTES
	CR J101 LTG	A	666	L	20/1	1		2		LM	5400	A		
	CR J101 REC	B	900	R	20/1	3		4	50/3	LM	5400	B	HP-1	
	CR J101 REC	C	720	R	20/1	5		6		LM	5400	C		
	CR J102 LTG	A	666	L	20/1	7		8		M	5400	A		
	CR J102 REC	B	900	R	20/1	9		10	50/3	M	5400	B	HP-2	
	CR J102 REC	C	720	R	20/1	11		12		M	5400	C		
	CR J103 LTG	A	666	L	20/1	13		14		M	5400	A		
	CR J103 REC	B	900	R	20/1	15		16	50/3	M	5400	B	HP-3	
	CR J103 REC	C	720	R	20/1	17		18		M	5400	C		
	CR J104 LTG	A	666	L	20/1	19		20		M	5400	A		
	CR J104 REC	B	900	R	20/1	21		22	50/3	M	5400	B	HP-4	
	CR J104 REC	C	720	R	20/1	23		24		M	5400	C		
	ROOF REC	A	720	R	20/1	25		26		M	468	A		
		B	468	M		27		28	15/3	M	468	B	PE-1	
	PE-3	C	468	M	15/3	29		30		M	468	C		
		A	468	M		31		32		M	468	A		
		B	468	M		33		34	15/3	M	468	B	PE-2	
	PE-4	C	468	M	15/3	35		36		M	468	C		
		A	468	M		37		38				A	SPACE	
	EXT LTG	B	64	L	20/1	39		40				B	SPACE	
	EXT LTG (SECURITY)	C	64	L	20/1	41		42				C	SPACE	
	SPACE	A				43		44				A	SPACE	
	SPACE	B				45		46				B	SPACE	
	SPACE	C				47		48				A		
	SPACE	A				49		50	100/3			B	PV BREAKER	1
	SPACE	B				51		52				C		

GENERAL NOTES	SCHEDULE NOTES
a.	1. SEE SITE ELECTRICAL DRAWINGS FOR MORE INFO
b.	2.
c.	3.
d.	4.
e.	5.
f.	6.

LOAD TYPE	LOAD DESCRIPTION	CONNECTED (kVA)	SUBFED (kVA)	TOTAL BY TYPE (kVA)	DEMAND FACTOR (kVA)	DEMAND BY TYPE (kVA)
G	GENERAL	0.00	0.00	0.00	100%	0.00
L	LIGHTING	2.79	0.00	2.79	125%	3.49
R	RECEPTACLES	7.20	0.00	7.20	100%/50%	7.20
K	KITCHEN	0.00	0.00	0.00	100%	0.00
H	HEATING	0.00	0.00	0.00	100%	0.00
M	MOTORS	54.22	0.00	54.22	100%	54.22
LM	LARGEST MOTOR	16.20	0.00	16.20	125%	20.25
WH	WATER HEATER	0.00	0.00	0.00	125%	0.00
C	CONTINUOUS	0.00	0.00	0.00	125%	0.00

VOLTAGE DROP LIMITATIONS

SUMMARY OF MAXIMUM FEEDER AND BRANCH CIRCUIT LENGTHS

WIRE (AWG)	CIRCUIT AMPS (A)	MAXIMUM FEEDER LENGTH (ft)					MAXIMUM BRANCH CIRCUIT LENGTH (ft)				
		120V	208V	240V	277V	480V	120V	208V	240V	277V	480V
14	12	39	67	78	90	156	58	101	117	135	233
12	16	46	80	93	107	185	69	120	139	160	278
10	24	48	83	96	111	192	72	125	144	166	288
8	32	57	99	115	132	229	86	149	172	199	344
6	40	73	127	146	169	293	110	190	220	253	439
4	52	89	154	178	206	356	134	232	267	309	535
2	72	103	178	206	237	412	154	267	309	356	617
0	96	123	212	245	283	490	184	319	368	424	735
00	108	137	238	274	317	549	206	357	412	475	823
0000	144	163	283	327	377	654	245	425	490	566	980
250	164	170	294	340	392	679	255	441	509	588	1019
300	184	181	314	362	418	725	272	471	543	627	1087
350	200	195	338	390	450	779	292	506	584	675	1169
500	248	224	388	448	517	896	336	582	572	776	1344

SUMMARY OF VOLT DROP LIMITS

CIRCUIT VOLTS (V)	2% VOLTAGE DROP (V)	3% VOLTAGE DROP (V)	5% VOLTAGE DROP (V)
120	2.4	3.6	6.0
208	4.2	6.2	10.4
240	4.8	7.2	12.0
277	5.5	8.3	13.9
480	9.6	14.4	24.0

NOTES:

1. TABLE ABOVE IS FOR COPPER WIRING ONLY.
2. IF FIELD CONDITIONS RESULT IN WIRE SIZES NOTED ABOVE EXCEEDING THE LENGTHS NOTED ABOVE, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE AS REQUIRED TO MEET VOLTAGE DROP REQUIREMENTS.
3. FEEDERS SHALL BE LIMITED TO A MAXIMUM OF 2% VOLTAGE DROP.
4. BRANCH CIRCUITS SHALL BE LIMITED TO A MAXIMUM OF 3% VOLTAGE DROP.
5. TOTAL VOLTAGE DROP FOR ELECTRICAL DISTRIBUTION SYSTEM (FEEDER + BRANCH CIRCUIT) SHALL BE LIMITED TO A MAXIMUM OF 5% VOLTAGE DROP.

LUMINAIRE SCHEDULE

FIXTURE TAG KEY: G = GROUND MOUNT; L = LINEAR FIXTURES THAT HAVE VARIABLE LENGTH ON THE PROJECT; P = PENDANT MOUNTED; R = RECESSED; S = SURFACE MOUNTED;
T = TRACK OR TRACK HEAD; W = WALL MOUNTED; X = EXIT SIGNS; Y = POLE MOUNTED; Z = EXTERIOR - TO PRECEDE OTHER FIXTURE TAGS - E.G. ZW1 WOULD BE AN EXTERIOR WALL MOUNTED FIXTURE

FIXTURE TAG	INPUT WATTS (W)	LIGHT SOURCE	COLOR TEMP (K)	CRI	OUTPUT (LUMENS)	EFFICACY (LPW)	LED DRIVER OR BALLAST	VOLTS (V)	DESCRIPTION	MANUFACTURER	LOCATION	WEIGHT (LBS)	REMARKS
R1	34.2	LED	3500	80	3874	113.2748538	INTEGRAL 0-10V DIMMING DRIVER	UNIVERSAL	2'-0" X 4'-0" RECESSED TROFFER. STRAIGHT FLOATING CENTER LENS. CURVED WHITE REFLECTOR.	HW EILLIAMS AT3 ARCHITECTURAL TROFFER SERIES AT3-2-4-L40-8-35-D-DIM-UNV OR APPROVED EQUAL	CLASSROOMS	22	
R1E	34.2	LED	3500	80	3874	113.2748538	INTEGRAL 0-10V DIMMING DRIVER	UNIVERSAL	SIMILAR TO TYPE "R1" EXCEPT WITH INTEGRAL UL LISTED BATTERY PACK WITH 90 MIN RUNTIME.	HW EILLIAMS AT3 ARCHITECTURAL TROFFER SERIES AT3-2-4-L40-8-35-D-EM/10W-DIM-UNV OR APPROVED EQUAL	CLASSROOMS	22	
R2	27	LED	3500	80	2961	109.6666667	INTEGRAL 0-10V DIMMING DRIVER	UNIVERSAL	4'-0" X 0'-6" RECESSED WALLWASH FIXTURE. FROSTED, RIBBED ACRYLIC LENS.	HE WILLIAMS RW WALLWASH SERIES RW-G-4-L30-8-35-W-DIM-UNV	CLASSROOMS	15	1. ORIENT FIXTURE TO WASH LIGHT TOWARDS WALL
ZW1	16	LED	4000	80	2599	162.4375	INTEGRAL 0-10V DIMMING DRIVER	120	SQUARE WALL MOUNT LED WALLPACK. UL WET LOCATION LISTED. DOWNLIGHT ONLY. DARK GREY FINISH.	GARDCO GEOFORM MEDIUM SERIES GBM-A06-840-T2M-120-FS1-DG OR APPROVED EQUAL	EXTERIOR	9.5	1. MOUNT BOTTOM OF FIXTURE AT 8'-0" AFF.
ZW1E	16	LED	4000	80	2599	162.4375	INTEGRAL 0-10V DIMMING DRIVER	120	SIMILAR TO TYPE "ZW1" EXCEPT WITH INTEGRAL UL LISTED BATTERY PACK WITH 90 MIN RUNTIME.	GARDCO GEOFORM MEDIUM SERIES GBM-A06-840-T2M-120-FS1-EC-DG OR APPROVED EQUAL	EXTERIOR	9.5	1. MOUNT BOTTOM OF FIXTURE AT 8'-0" AFF.
X1	5	LED	N/A	N/A	N/A	N/A	ELECTRONIC, INTEGRAL	120	EDGE-LIT LED EXIT SIGN. MIRRORED ACRYLIC PANEL WITH GREEN LETTERING. BRUSHED ALUMINUM HOUSING. INTEGRAL BATTERY PACK WITH MINIMUM 90 MIN RUNTIME.	EMERGILITE PRESTIGE EDGE LIT SERIES LXN-_-N-G-M-_-A-D OR APPROVED EQUAL	THROUGHOUT	3	1. MOUNT BOTTOM OF FIXTURE AT 8'-0" AFF. 2. PROVIDE MOUNTING HARDWARE, QUANTITY/DIRECTION OF ARROWS, AND QUANTITY OF FACES AS INDICATED ON PLANS.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

INTERIOR LIGHTING	NETWORKED CONTROLS				
	LOCALIZED MANUAL CONTROL OVERRIDE SWITCH	AUTO-ON & AUTO OFF OCCUPANCY SENSING WITH TIME DELAY:	MANUAL ON & AUTO-OFF VACANCY SENSING WITH TIME DELAY:	DAYLIGHT HARVESTING (FC SET POINT)	DEMAND RESPONSE LIGHTING POWER REDUCTION
CLASSROOM	ON/OFF. DIMMING.		30 MIN	DIM DOWN TO 30 FC	AT DUSK, DIM DOWN TO 20% FROM DAYTIME TARGET LEVELS. AT DAWN, DIM UP TO DAYTIME TARGET LEVELS.

EXTERIOR LIGHTING	STAND ALONE TIME CLOCK	
	PHOTOSENSOR CONTROL	TIME CLOCK
EXTERIOR LIGHTING	N/A	TIME CLOCK ON/OFF AT PRESET TIME. FINAL TIME AS DIRECTED BY DISTRICT.
EXTERIOR LIGHTING (SECURITY)	N/A	TIME CLOCK ON/OFF AT PRESET TIME. FINAL TIME AS DIRECTED BY DISTRICT.

GENERAL NOTES:

1. GENERAL LIGHTING POWER REDUCED BY MIN 65% WHEN DAYLIT ILLUMINANCE REACHES 150% OF DESIGN ILLUMINANCE.
2. COORDINATE WITH MANUFACTURER TO FINALIZE PHOTOSENSOR MOUNTING AND LOCATION SO THAT SENSORS PROPERLY DETECT FOOT-CANDLE LEVELS AT WORK PLANE.
3. PHOTOSENSOR SHALL DIM LIGHTING DOWN AS INDICATED IN DAYLIGHT HARVESTING COLUMN (AT WORK PLANE), UON ABOVE.
4. LIGHTING CONTROL SENSORS AND DIMMING SETTINGS SHALL BE CALIBRATED AFTER FURNITURE AND FINAL FINISHES ARE INSTALLED FOR PROPER OPERATIONAL CONDITIONS.
5. DRIVERS AND CONTROL INTERFACE DEVICES SHALL BE CAPABLE OF DIMMING LIGHTING DOWN VIA PHOTOSENSOR. FOOT-CANDLE SETTINGS AS INDICATED IN SCHEDULE.
6. FINAL SELECTION AND LOCATIONS OF MANUAL CONTROL DEVICES (WALL MOUNT BUTTON CONTROL SWITCHES WITH DIMMER) SHALL BE APPROVED BY ARCHITECT AND ENGINEER. SUBMIT FOR APPROVAL.
7. OCCUPANCY SENSOR SHALL DETECT OCCUPANT. UPON NO DETECTION, TIME DELAY SET TO AUTOMATIC OFF. MANUAL CONTROL OVERRIDE SHALL ALLOW FOR DIM UP/DOWN. MANUAL CONTROL SWITCH SHALL PROVIDE ALL ON/OFF.
8. VACANCY SENSOR SETTING = MANUAL ON/AUTO OFF. OCCUPANCY SENSOR SETTINGS = AUTO ON/AUTO OFF.
9. COORDINATE FINAL SEQUENCE OF OPERATIONS, OVERRIDE SCHEDULES, AND TIME DELAY SETTINGS WITH DISTRICT. PROVIDE MANUFACTURER SEQUENCE OF OPERATION FOR APPROVAL.
10. SEE DAYLIGHT HARVESTING COLUMN FOR TARGET DESIGN FOOT-CANDLE LEVELS IN DAYLIT AREAS.

EQUIPMENT SCHEDULE

EQUIPMENT DESIGNATION	EQUIPMENT TYPE	LOCATION	PACKAGE UNITS MCA	PACKAGE UNITS MOCP	AMPS	HORSEPOWER	KVA	VOLTAGE/PHASE, QTY WIRES	CONNECTION TO EMS	INTERLOCK WITH	MOTOR STARTERS TYPE	MOTOR STARTERS STARTER NEMA SIZE	MOTOR STARTERS AUXILIARY DEVICES IN STARTERS	CONTROL DEVICES	CONNECTION TO FA PANEL	CONTROL WIRING AS REQUIRED	FUSED DISCONNECT SWITCH	LOCKOUT TOGGLE SWITCH	PANEL AND CIRCUIT NO	CONDUIT (IN)	POWER WIRING	REMARKS
PE-1	POWER EXHAUST	EXTERIOR			3.9			208/3, 4W								E	E, WP		A - 26,28,30	3/4	(4) #12 + (1) #12	
PE-2	POWER EXHAUST	EXTERIOR			3.9			208/3, 4W								E	E, WP		A - 32,34,36	3/4	(4) #12 + (1) #12	
PE-3	POWER EXHAUST	EXTERIOR			3.9			208/3, 4W								E	E, WP		A - 27,29,31	3/4	(4) #12 + (1) #12	
PE-4	POWER EXHAUST	EXTERIOR			3.9			208/3, 4W								E	E, WP		A - 33,35,37	3/4	(4) #12 + (1) #12	
HP-1	HEAT PUMP	EXTERIOR	45.0	50				208/3, 4W						E, T-STAT		E	E, WP		A - 1,3,5	1	(4) #6 + (1) #10	
HP-2	HEAT PUMP	EXTERIOR	45.0	50				208/3, 4W						E, T-STAT		E	E, WP		A - 7,9,11	1	(4) #6 + (1) #10	
HP-3	HEAT PUMP	EXTERIOR	45.0	50				208/3, 4W						E, T-STAT		E	E, WP		A - 13,15,17	1	(4) #6 + (1) #10	
HP-4	HEAT PUMP	EXTERIOR	45.0	50				208/3, 4W						E, T-STAT		E	E, WP		A - 19,21,23	1	(4) #6 + (1) #10	

EQUIPMENT SCHEDULE ABBREVIATIONS:

AC	AUXILIARY CONTACTS, 1 NC, 1 NO	CNTR	CONTRACTOR	HOA	3 - POSITION SELECTOR SWITCH (HAND/OFF/AUTO)	NC	NORMALLY CLOSED
AC2	AUXILIARY CONTACTS, 2 NC, 2 NO	CR	CONTROL RELAY			NO	NORMALLY OPEN
B	FURNISHED BY OWNER & INSTALLED BY ELECTRICAL CONTRACTOR	CPT	CONTROL POWER TRANSFORMER	M	FURNISHED BY MECHANICAL & INSTALLED BY ELECTRICAL CONTRACTOR	O	FURNISHED & INSTALLED BY OTHER DIVISIONS
		E	FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR	OL	OVERLOAD RELAY		
CMCP	COMBINATION MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR	EMS	ENERGY MANAGEMENT SYSTEM	MCA	MINIMUM CIRCUIT AMPS	PL	LED PILOT LIGHT RED ON, GREEN OFF
		EPO	EMERGENCY POWER OFF BUTTON	MOCP	MAXIMUM OVER CURRENT PROTECTION	PS	START/STOP PUSH BUTTON
CMFS	COMBINATION MOTOR STARTER WITH FUSED SWITCH	FA	FIRE ALARM	MAN	MANUAL STARTER (<10HP)	SD	SMOKE DETECTOR
				MS	MAGNETIC STARTER	SM	ON/OFF TOGGLE DISCONNECT @ MOTOR
						SP	SUPERVISORY ALARM PANEL
						SSA	3 - POSITION SELECTOR SWITCH (START/STOP/AUTO) SPRING RELEASE TYPE TO AUTO POSITION
						SS	ELECTRONIC SOFT STARTER
						TS	TIME SWITCH
						VFD	VARIABLE FREQUENCY DRIVE
						WP	WEATHERPROOF

NOTES:
1. EQUIPMENT SCHEDULE ABBREVIATIONS DO NOT APPLY TO EQUIPMENT DESIGNATION COLUMN.
2. VERIFY CB/FUSE AND WIRING REQUIREMENTS WITH SUBMITTALS PRIOR TO WIRING UNITS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Meehleis Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever nor are they to be assigned to any third party without first obtaining the expressed written permission of the Meehleis Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER DAVID MATTHEW LEE E19203 EXP. 6-30-26 ELECTRICAL STATE OF CALIFORNIA

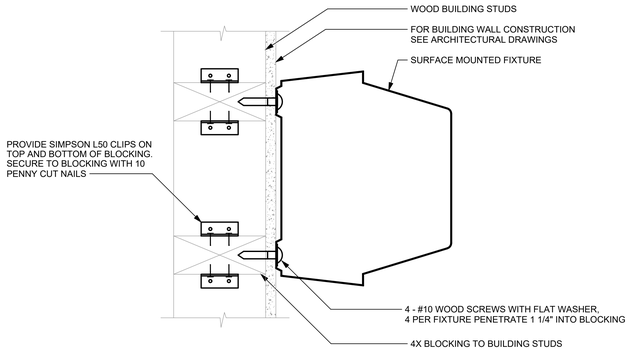
DRAWN: DM
CHECKED: TL
REVISIONS:

DATE AUG 8, 2025
JOB NO. 25775

SHEET TITLE
SCHEDULES

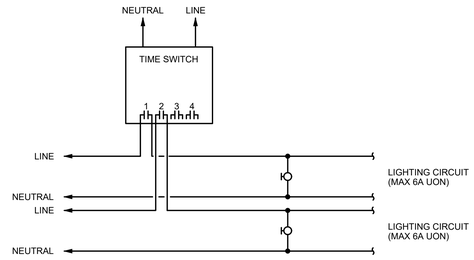
SHEET NO.
E700

FILE LOCATION: G:\shared drives\01_projects\meehleis_97\2497.81 - davis es classroom building\05_drawings\01_DWGs\2497.81 - E000 - GENERAL INFORMATION.dwg
LAST SAVED ON: 8/07/25 at 4:11pm, PLOTTED ON: 8/07/25 at 4:12pm



4 WALL FIXTURE MOUNTING ON WOOD STUDS

NOT TO SCALE

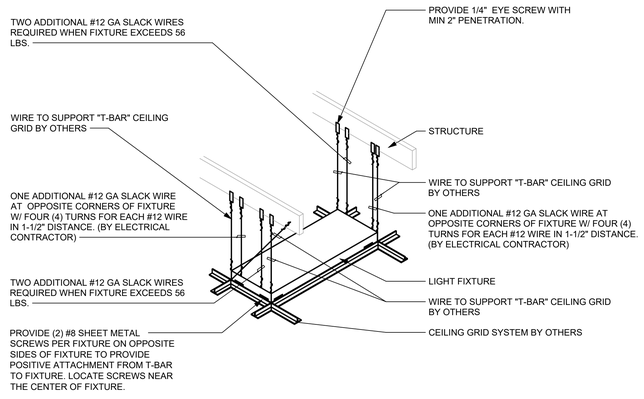


DETAIL NOTES

1. PROVIDE ASTRONOMIC, 365 DAY, 4-CIRCUIT TIME CLOCK, INTERMATIC ET90415CR OR APPROVED EQUAL.
2. TIME SWITCH SHALL BE PROVIDED WITH MINIMUM (30 DAY) BATTERY BACKUP.
3. SET TIMES AS FOLLOWS UNLESS DIRECTED OTHERWISE BY OWNER:
   - 3.1. CHANNEL # 1: "ON @ ONE HOUR BEFORE SUNSET" "OFF @ 10:00pm"
   - 3.2. CHANNEL # 2: "ON @ ONE HOUR BEFORE SUNSET" "OFF @ ONE HOUR AFTER SUNRISE"
   - 3.3. CHANNELS # 3 & 4 ARE SPARE.

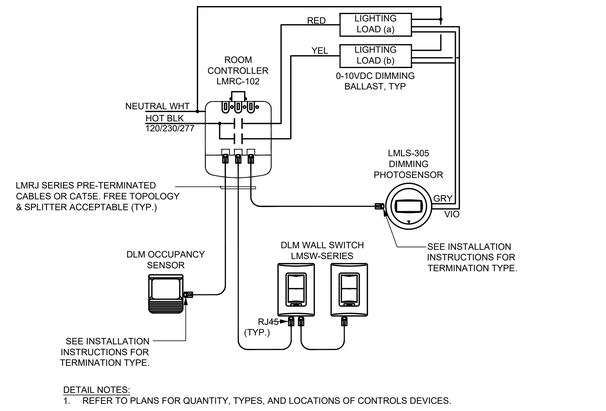
1 TIME SWITCH FOR 4 LINE VOLTAGE CIRCUITS

NOT TO SCALE



5 GRID FIXTURE MOUNTING

NOT TO SCALE

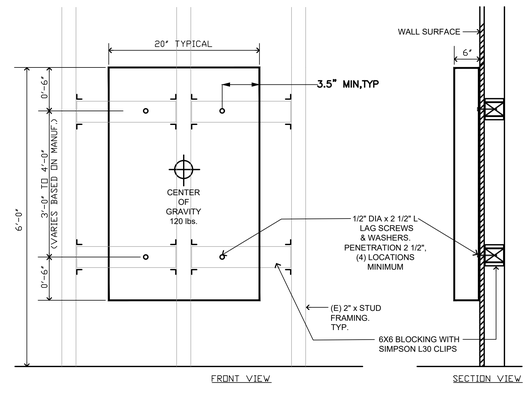


DETAIL NOTES:

1. REFER TO PLANS FOR QUANTITY, TYPES, AND LOCATIONS OF CONTROLS DEVICES.

2 DIGITAL LIGHTING CONTROL ON/OFF WITH AUTO DIM

NOT TO SCALE

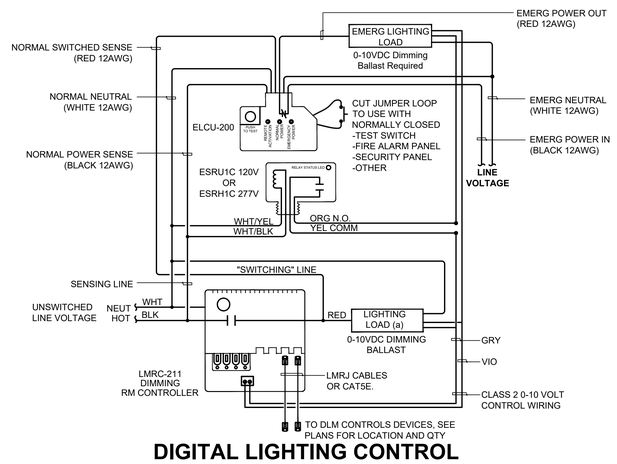


DETAIL NOTES:

A. ALL BLOCKING SHALL BE PREDRILLED TO PREVENT SPLITTING.

6 PANEL SURFACE MOUNTING DETAIL

NOT TO SCALE



3 DIGITAL LIGHTING CONTROL DIMMED EMERGENCY LIGHTING

NOT TO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Meehleis Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or by any means whatsoever, nor assigned to any third party without first obtaining the expressed written permission of the Meehleis Modular Buildings, Inc.

MEEHLEIS
MODULAR
BUILDINGS, INC.
A DESIGN BUILD
COMPANY

1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

E19203
EXP. 6-30-26
REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA

DRAWN: DM
CHECKED: TL
REVISIONS:

DATE AUG 8, 2025
JOB NO. 25775

SHEET TITLE

DETAILS AND DIAGRAMS

SHEET NO.

E800

FILE LOCATION: G:\shared drives\01_projects\meehleis_97\2497.81 - davis es classroom building\05_drawings\01_DWGs\2497.81 - E000 - GENERAL INFORMATION.dwg
LAST SAVED ON: 8/07/25 at 4:11pm, PLOTTED ON: 8/07/25 at 4:12pm

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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.	
Project Name: 2497.81 - Davis ES Classroom Building	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2025-03-10T15:21:04-04:00

A. GENERAL INFORMATION

01	Project Location (city)	04	Total Conditioned Floor Area (ft²)	3,874
02	Climate Zone 12	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):	06	# of Stories (Habitable Above Grade)	1

● Classroom

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	3874	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	3874			

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		2,324.4			=	2,324.4	2,073.6		=	2073.6	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.

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
R1	RECESSED 2X4	No	NA	34.2	Mfr. Spec	48	No	1,641.6	☐	☐
R2	RECESSED WALLWASH	No	NA	27	Mfr. Spec	16	No	432	☐	☐
					Total Designed Watts: CONDITIONED SPACES			2,073.6		

[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	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

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
CLASSROOMS	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				
					E300				

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
CLASSROOMS	Classroom, Lecture, or Training Vocational	0.6	3,874	2,324.4	No	No
		TOTALS:	3,874	2,324.4	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.

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

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.	CLASSROOMS
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	CLASSROOMS

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: 2497.81 - Davis ES Classroom Building	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2025-03-10T15:21:04-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Joseph Maino	Documentation Author Signature:
Company: ATIUM ENGINEERING	Signature Date: 03.10.25
Address: 3533 YORK LN	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

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: Joseph Maino	Responsible Designer Signature:
Company: ATIUM ENGINEERING	Date Signed: 03.10.25
Address: 3533 YORK LN	License: E19203
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Builders, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever without the expressed written permission of the Modular Manufacturer.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
DAVID MAINO
E19203
EXP. 6-30-26
ELECTRICAL
STATE OF CALIFORNIA

DRAWN: DM
CHECKED: TL
REVISIONS:

DATE AUG 8, 2025
JOB NO. 25775

SHEET TITLE
T24
INTERIOR
LIGHTING

SHEET NO.
E900

FILE LOCATION: G:\shared drives\01_projects\meehleis_97\2497.81 - davis es classroom building\05_drawings\01_DWGs\2497.81 - E000 - GENERAL INFORMATION.dwg
LAST SAVED ON: 8/07/25 at 4:11pm, PLOTTED ON: 8/07/25 at 4:12pm

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
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.	
Project Name: 2497.81 - Davis ES Classroom Building	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2025-03-10T15:24:30-04:00

A. GENERAL INFORMATION

01	Project Location (city)	STOCKTON	04	Total Illuminated Hardscape Area (ft²)	7700
02	Climate Zone	12			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
• Classroom					

B. PROJECT SCOPE

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

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 / 170.2(e)6 (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**
504.1	+	----	+	----	+	----	+	----	OR	----	=	504.1	≥	128	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.

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)[4]	Field Inspector	
										Pass	Fail
ZW1	LED WALLPACK	☐ Linear	16	Mfr. Spec	8	New	☐	128	NA: < 6200 lumens	☐	☐
							Total Design Watts:	128			

** 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.

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
HARDSCAPE: "ZW1"	Astronomical Timer	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.

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

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

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

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

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
HARDSCAPE	7700	0.021	161.7	462	0.2	92.4	254.1
				Initial Wattage Allowance for Entire Site (Watts):			250
				Instances of Initial Wattage Allowance (LZ 0 only)[1]			
				Total General Hardscape Allowance (Watts):			504.1

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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.	HARDSCAPE: "ZW1"

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: 2497.81 - Davis ES Classroom Building	**Report Page:** (Page 7 of 7)
Project Address:	**Date Prepared:** 2025-03-10T15:24:30-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Joseph Maino	Documentation Author Signature:
Company: ATIUM ENGINEERING	Signature Date: 03.10.25
Address: 3533 YORK LN	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

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: Joseph Maino	Responsible Designer Signature:
Company: ATIUM ENGINEERING	Date Signed: 03.10.25
Address: 3533 YORK LN	License: E19203
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Meehleis Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever without the permission of the Meehleis Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

REGISTERED PROFESSIONAL ENGINEER
DAVID MAINO
E19203
EXP. 6-30-26
ELECTRICAL
STATE OF CALIFORNIA

DRAWN: DM
CHECKED: TL
REVISIONS:

-	-

DATE AUG 8, 2025
JOB NO. 25775
SHEET TITLE
T24 EXTERIOR LIGHTING
SHEET NO.
E910

FILE LOCATION: G:\shared drives\01_projects\meehleis_97\2497.81 - davis es classroom building\05_drawings\01_DWGs\2497.81 - E000 - GENERAL INFORMATION.dwg
LAST SAVED ON: 8/07/25 at 4:11pm, PLOTTED ON: 8/07/25 at 4:12pm

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bviii	
Project Name: 2497.81 - Davis ES Classroom Building	**Report Page:** (Page 1 of 4)
Project Address:	**Date Prepared:** 2025-03-10T15:13:33-04:00

A. GENERAL INFORMATION

01	Project Location (city)	STOCKTON	02	Climate Zone	12
			03	Occupancy Types Within Project:	Classroom

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
PNL A	Add/Alt to feeders and branch circuits only	---	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: 2497.81 - Davis ES Classroom Building	**Report Page:** (Page 2 of 4)
	Date Prepared: 2025-03-10T15:13:33-04:00

C. COMPLIANCE RESULTS

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

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND		AND	Yes	AND			COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2PiI/ 180.2(b)4Bviic.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
PNL A	☒	Voltage drop less than 5%	☐ Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	SEE SITE ENGINEER'S DRAWINGS	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: 2497.81 - Davis ES Classroom Building	**Report Page:** (Page 3 of 4)
	Date Prepared: 2025-03-10T15:13:33-04:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: 2497.81 - Davis ES Classroom Building	**Report Page:** (Page 4 of 4)
Project Address:	**Date Prepared:** 2025-03-10T15:13:33-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Joseph Maino	Documentation Author Signature:
Company: ATIUM ENGINEERING	Signature Date: 03.10.25
Address: 3533 YORK LN	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

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: Joseph Maino	Responsible Designer Signature:
Company: ATIUM ENGINEERING	Date Signed: 03.10.25
Address: 3533 YORK LN	License: E19203
City/State/Zip: SAN RAMON, CA 94582	Phone: 913.961.1658

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
(DAVIS)
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Meehleis Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever without the expressed written permission of the Meehleis Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

E19203
EXP. 6-30-26

DRAWN: DM
CHECKED: TL
REVISIONS:

.	.

DATE AUG 8, 2025
JOB NO. 25775
SHEET TITLE
T24 POWER
SHEET NO.
E920

FILE LOCATION: G:\shared drives\01_projects\meehleis_97\2497.81 - davis es classroom building\05_drawings\01_DWGs\2497.81 - E000 - GENERAL INFORMATION.dwg
LAST SAVED ON: 8/07/25 at 4:11pm, PLOTTED ON: 8/07/25 at 4:12pm
Project Navigator g:\shared drives\01_projects\meehleis_97\2497.81 - davis es classroom building\05_drawings\01_DWGs\2497.81 - E000 - GENERAL INFORMATION.dwg 8/7/2025 4:12 PM

FIELD TESTING SETUP ASSEMBLY DETAILS FOR SSMR SEAM CONNECTION CLAMPS:

IR 16-8

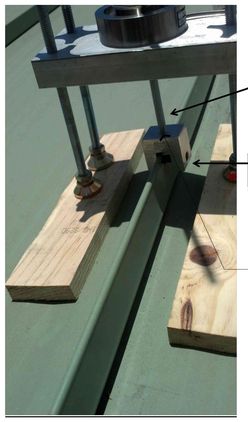
SOLAR PHOTOVOLTAIC AND THERMAL SYSTEMS REVIEW AND APPROVAL REQUIREMENTS: 2022 CBC

APPENDIX B: STANDING SEAM METAL ROOF (SSMR) FIELD TESTING

Photograph #1: Example of Test Apparatus for SSMR Seam Connection Devices on New SSMR Systems

(1) Validate the capacity values of the Seam Connecting Device to be utilized for design as required per Section 5.1.2.1 above.

(2) Field Installation Quality Control Test of installed Device on a New Roof per Section 5.1.3.1 above.



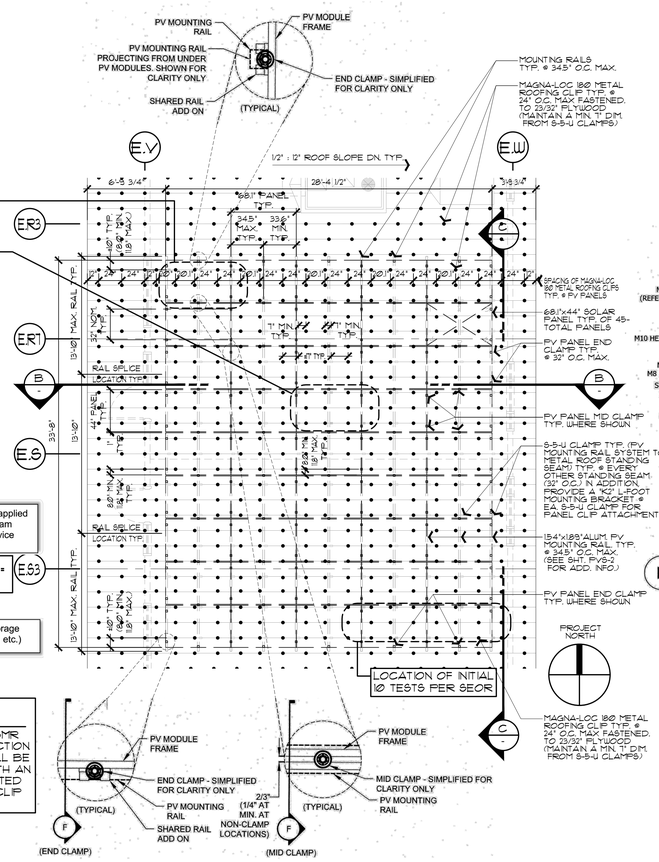
Test load shall be applied through the Seam Connecting Device

TEST LOAD = 427 LBS

Solar Clip Anchorage (S-5!, AceClamp, etc.)

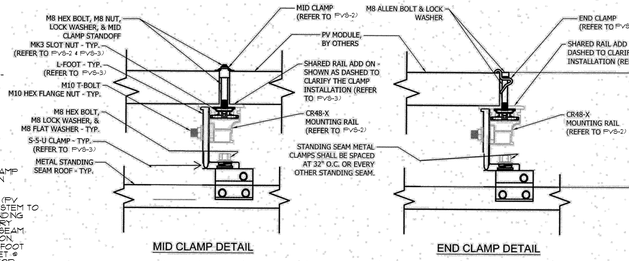
NOTE:

TESTS FOR SSMR SEAM CONNECTION CLAMPS SHALL BE PROVIDED WITH AN 'L' FOOT BOLTED TO THE 65-U CLIP TYP.

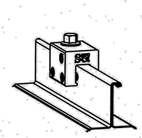


E PLAN VIEW

SCALE 3/16"=1'-0"

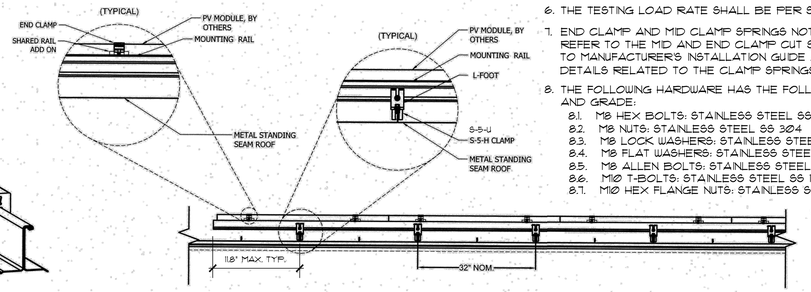


F CLAMP & L-FOOT ASSEMBLY

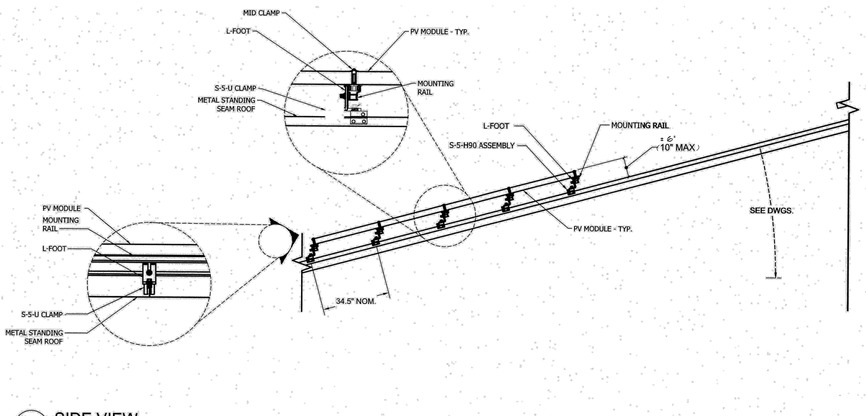


D S-5-U ASSEMBLY (ICC ESR-3869)

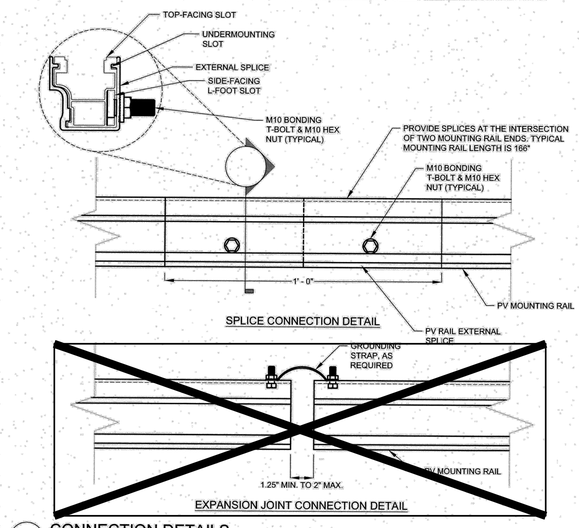
INSTALLATION TORQUE FOR S-5-U CLIPS ON MAGNA LOC 180-R ROOFING CLIPS SHALL BE 10.8 TO 12.5 FT-LBS. TYP.



C FRONT VIEW



B SIDE VIEW



A CONNECTION DETAILS

1 PV SYSTEM MOUNTING DETAILS - PORTRAIT ORIENTATION

NOT TO SCALE

SSMR SEAM CONNECTION FAILURE CRITERIA NOTE:

THE FAILURE CRITERIA SHALL BE ANY SLIP OF THE CONNECTING DEVICE FROM THE STANDING SEAM OR THE CRACKING OF THE STANDING SEAM, WHICHEVER OCCURS FRIST.

GENERAL DETAIL NOTES FOR PV MOUNTING DETAILS:

THIS PV SYSTEM FALLS UNDER "NEW CONSTRUCTION" CATEGORY PER DSA IR. 16-8 SECTION 5.1.1.

1. REFER TO PV DRAWINGS AND PV RACKING SYSTEM MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DRAWINGS FOR MORE INFORMATION. BASIS OF DESIGN FOR RACKING SYSTEM IS K2 SYSTEMS / EVEREST SOLAR SYSTEMS CROSSRAIL SHARED RAIL RACKING SYSTEMS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL PARTS AND PIECES NECESSARY FOR A FULLY FUNCTIONAL RACKING SYSTEM PER THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION GUIDE.
2. CONTRACTOR SHALL PROVIDE AND INSTALL PV MODULE MID AND END CLAMPS PER APPROVED DRAWINGS AND AS REQUIRED AND IN ACCORDANCE WITH PV RACKING SYSTEM MANUFACTURER'S SPECIFICATIONS AND INSTALLATION GUIDE, AT A MINIMUM CONTRACTOR SHALL PROVIDE (6) CLAMPS PER PV MODULE.
3. ALL STRUCTURAL MEMBERS AND ROOFING COMPONENTS ARE SHOWN FOR REFERENCE ONLY. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DETAILS RELATED TO THE ROOF CONSTRUCTION AND BUILDING STRUCTURE.
4. INSATALL OR RE-TIGHTEN THE FOLLOWING BOLT TYPES WITH THE FOLLOWING TORQUE VALUES PER THE MANUFACTURERS INSTALLATION GUIDES AND SPECIFICATIONS:
   - 4.1.1.1. M10 T BOLTS - 25.8 FT-LBS.
   - 4.1.1.2. END CLAMP M8 ALLEN BOLTS - 10.3 FT-LBS.
   - 4.1.1.3. MID CLAMP M8 HEX BOLTS - 12 FT-LBS.
   - 4.1.1.4. M8 BOLTS UNLESS OTHERWISE NOTED - 10.3 FT-LBS.

   2x 213.5 427
5. THE PV CONTRACTOR SHALL PROVIDE FOR AND ARRANGE FOR FIELD TESTING STANDING SEAM CONNECTION CLAMPS AS REQUIRED BY DSA IR 16-8 SECTION 5.1.3.1. ALL TESTING SHALL BE PERFORMED BY PERSONNEL APPROVED BY THE ARCHITECT OR SEOR AND DSA. AFTER ALL CONNECTION CLAMPS HAVE BEEN INSTALLED, FIELD TEST A MINIMUM OF 20 COSECUTIVE CONNECTIONS AT EACH ROOF TO TWICE THE MAXIMUM ASD WIND UPLIFT LOAD TRIBUTARY TO THE CONNECTION (2x 213.5 lbs. = 427 LBS.). IF THERE ARE NO FAILURES IN THE 20 CONSECUTIVE TESTING, TEST 10% OF THE REMAINING INSTALLED CONNECTION CLAMPS. IF FAILURE OCCURS BEFORE 20 CONSECUTIVE SUCCESSFUL TESTS ARE COMPLETED, THEN ADDITIONAL TESTS SHALL BE PERFORMED UNTL 20 COSECUTIVE SUCCESSFUL TESTS ARE COMPLETED, THEN CONTINUE AT A RATE OF 10 PERCENT ON THE REMAINING INSTALLED DEVICES.

   LOCATION OF THE INITIAL 20 TESTS MUST BE SELECTED BY THE SEOR TO COVER ALL WIND ZONES AND REPRESENT DIFFERENT AREAS OF ROOF, (SEE PLAN 1 FOR ADDITIONAL INFORMATION)

   ALL DAMAGE TO ELEMENTS (FROM TESTING) MUST BE REPAIRED PER THE SEOR & DSA.

   SEE TEST SETUP ASSEMBLY DETAILS AT LEFT SIDE OF THIS SHEET FOR ADDITIONAL INFORMATION.
6. THE TESTING LOAD RATE SHALL BE PER SECTION 3.2.5 OF ICC AC 428.
7. END CLAMP AND MID CLAMP SPRINGS NOT SHOWN FOR CLARITY ONLY. REFER TO THE MID AND END CLAMP CUT SHEETS ON THE PVS-3 SHEET AND TO MANUFACTURER'S INSTALLATION GUIDE AND INSTRUCTIONS FOR ALL DETAILS RELATED TO THE CLAMP SPRINGS.
8. THE FOLLOWING HARDWARE HAS THE FOLLOWING ASTM MATERIAL SPECS AND GRADE:
   - 8.1. M8 HEX BOLTS: STAINLESS STEEL SS 304
   - 8.2. M8 NUTS: STAINLESS STEEL SS 304
   - 8.3. M8 LOCK WASHERS: STAINLESS STEEL SS 304
   - 8.4. M8 FLAT WASHERS: STAINLESS STEEL SS 304
   - 8.5. M8 ALLEN BOLTS: STAINLESS STEEL SS 304
   - 8.6. M10 T-BOLTS: STAINLESS STEEL SS 14301
   - 8.7. M10 HEX FLANGE NUTS: STAINLESS STEEL SS 304
9. SOLAR PANEL PROVIDER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS TO SEOR TYP. FOR VERIFICATION THAT SOLAR PANEL WIND LOAD RATINGS MEET THE MIN. WIND LOAD DEMAND (IN THE WORST ZONE FOR THIS PROJECT) AND SHALL OBTAIN AN APPROVAL LETTER FROM THE SEOR PRIOR TO INSTALLATION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212

These documents are the property of the Modular Building Institute, Inc. and are not to be reproduced, changed or used in any manner whatsoever without the expressed written permission of the Modular Building Institute.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. MARIRI
No. 3545
STRUCTURAL
STATE OF CALIFORNIA
SIGNED 12-15-2025

MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN:	BLB
CHECKED:	MM

REVISIONS:

07-23-25	DSA CORRECTIONS

DATE	JULY 23, 2025
JOB NO.	25775

SHEET TITLE

PV SUPPORT & ANCHORAGE DETAILS

SHEET NO.

PVS-1

MOUNTING RAIL CR48-X

We support PV systems
Formerly Everest Solar Systems

CROSSRAIL 48-X



Mechanical Properties

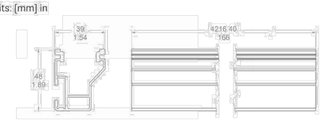
	CrossRail 48-X
Material	6000 Series Aluminum
Ultimate Tensile Strength	37.7 ksi [260 MPa]
Yield Strength	34.8 ksi [240 MPa]
Weight	0.56 lbs/ft (0.833 kg/m)
Finish	Mill or Dark Anodized

PER MNFR:
- ALLOY: 6005A
- TEMPER: T61

Sectional Properties

	CrossRail 48-X
Sx	0.1980 in³ [3.245 cm³]
Sy	0.1510 in³ [2.474 cm³]
A (X-Section)	0.4650 in² [2.999 cm²]

Units: [mm] in



Notes:
- Structural values and span charts determined in accordance with Aluminum Design Manual and ASCE 7-16
- UL2703 Listed System for Fire and Bonding

Components



Part Number	Description
4000051	Rail Connector CR 4X-X, Set, Mill
4000052	Rail Connector CR 4X-X, Set, Dark
4000385	RailConn CR 4X-X, 4X-XL Struct Set, Mill
4000386	RailConn CR 4X-X, 4X-XL Struct Set, Dark

Tools overview





13 mm dep socket
- Torque: 25.8 ft-lbs

Assembly

1
1 Slide the rail connector onto compatible CrossRail (CrossRail 48-X shown). The rail connector contains mating features and must be inserted prior to aligning the rails together.



PV MODULE CLAMPS

We support PV systems
Formerly Everest Solar Systems



CrossRail Mid Clamp

TECHNICAL SHEET

Item Number	Description	Part Number
1	M8 Serrated Flange Hex Head Bolt, 13mm	4000601-H | CR MC Silver 30-47mm, 13mm Hex 4000602-H | CR MC Dark 30-47mm, 13mm Hex
2	Lock Washer	
3	Mid Clamp Top	
4	Clamp Spring, 65mm length	
5	Mid Clamp Standoff	
6	MK3 Slot Nut	

ALL ITEMS / CLAMPS / HARDWARE SHOWN ON THIS SHEET ARE STAINLESS STEEL (ASTM: SS 304)

Technical Data

	CrossRail Mid Clamp
Compatible module frame size	30-47mm
Material	Stainless steel
Finish	Mill or dark anodized
Compatibility	CrossRail 4X-X, 48-X, 48-XL, 80, MiniRail, D-Dome R²

We support PV systems
Formerly Everest Solar Systems

Structural Rail Connector

QUICK GUIDE



2
1 Align the two rail ends next to each other and centre the rail connector between the two rails.



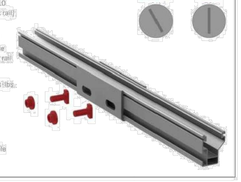
3
1 Attach the rail connector using two M10 T-Bolts (use bonding T-Bolts with dark teal) and two flex nuts.

Ensure that the slot on the bottom of the T-Bolt is vertical, indicating that the T-Bolt head is properly engaged in the rail channel.

Torque the serrated hex nuts to 25.8 ft·lbs. (35 Nm).

Note: Please refer to the system and state-specific engineering letters for allowable spans, limitations and installation notes regarding the capabilities of CrossRail and compatible Rail Connector.

Proper T-Bolt Alignment
Incorrect Correct



PV MODULE CLAMPS

We support PV systems
Formerly Everest Solar Systems



CrossRail End Clamp

TECHNICAL SHEET

Item Number	Description	Part Number
1	Allen Bolt	4000429 | CR EC Silver 30-50mm, Shared Rl, 30-45mm 4000430 | CR EC Dark 30-50mm, Shared Rl, 30-45mm
2	Lock Washer	4000098 | CR EC Silver 40-50mm, Shared Rl, 30-50mm 4000099 | CR EC Dark 40-50mm, Shared Rl, 30-50mm
3	End Clamp	
4	Clamp Spring	
5	MK3 Slot Nut	

ALL ITEMS / CLAMPS / HARDWARE SHOWN ON THIS SHEET ARE STAINLESS STEEL (ASTM: SS 304)

Technical Data

	CrossRail End Clamp
Scope of application	Used with all of our CrossRail based systems
Fastening type / Roof fixture	Clamp
Module orientation	Portrait or landscape
Compatible module frame size	30-50mm
Material	Stainless steel

NOTE:

SEE SHEET E6.06 FOR ADDITIONAL INFORMATION @ PV

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212
(DAVIS)

These documents are the property of the Meehleis Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever without the expressed written permission of the Meehleis Modular Buildings, Inc.

MEEHLEIS
MODULAR
BUILDINGS, INC.
A DESIGN BUILD
COMPANY

1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER

PROFESSIONAL ENGINEER
MOHAMMAD R. MARRI
No. 3545
STRUCTURAL
STATE OF CALIFORNIA

SIGNED 08-28-2025

MRH Structural Engineers
5400 IRVINE AVE. Ste. 101
Newport Beach , California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM
REVISIONS:

07-23-25	DSA CORRECTIONS

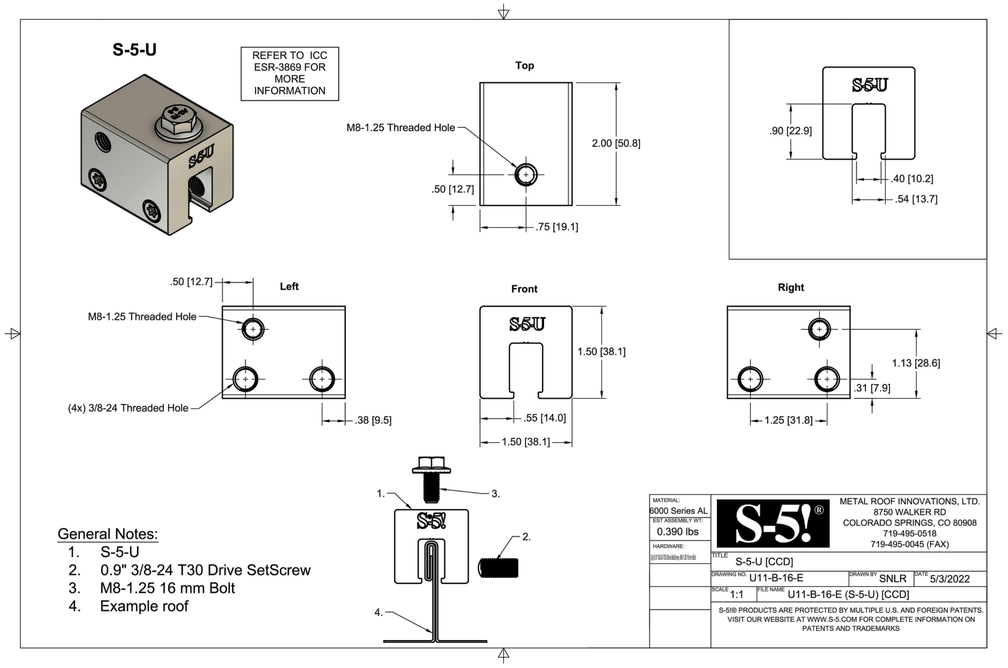
DATE JULY 23, 2025
JOB NO. 25775

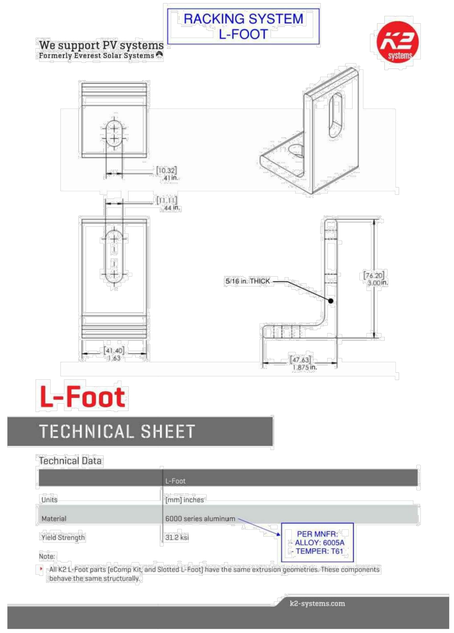
SHEET TITLE

PV SUPPORT & ANCHORAGE MEMBER CUTSHEETS

SHEET NO.

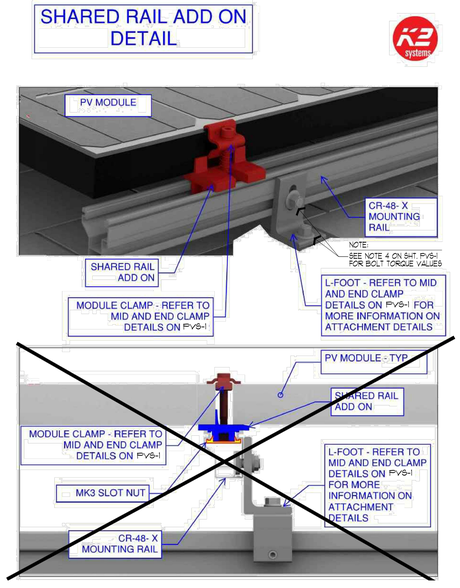
PVS-2







NOTE: SEE DETAIL E/PVS-1 FOR LOCATION & ORIENTATION OF CLAMPS, RAILS ETC.



NOTE: SEE DETAIL F/PVS-1 FOR PROPER ORIENTATION OF CLIPS & RAILS TYP.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123250 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 05/06/26

NEW MODULAR CLASSROOM BUILDING J
DAVIS ELEMENTARY SCHOOL MODERNIZATION
FOR LODI UNIFIED SCHOOL DISTRICT
5224 E. MORADA LANE, STOCKTON, CA. 95212
(DAVIS)

These documents are the property of the Meehleis Modular Buildings, Inc. and are not to be reproduced, changed or copied in any form or manner whatsoever nor are they to be assigned to any third party without first obtaining the expressed written permission of the Meehleis Modular Buildings, Inc.

MEEHLEIS MODULAR BUILDINGS, INC.
A DESIGN BUILD COMPANY
1303 E. LODI AVE.
LODI, CA. 95240
(209) 334-4637
CA. LIC. NO. 473488
NV. LIC. NO. 37887

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. HARIRI
No. 3545
MRH
STRUCTURAL
STATE OF CALIFORNIA
SIGNED 08-28-2025
MRH Structural Engineers
3400 IRVINE AVE. Ste. 101
Newport Beach, California 92660
(TEL) (714) 633-6302

DRAWN: BLB
CHECKED: MM
REVISIONS:

07-23-25	DSA CORRECTIONS

DATE JULY 23, 2025
JOB NO. 25775
SHEET TITLE
PV SUPPORT & ANCHORAGE MEMBER CUTSHEETS
SHEET NO.
PVS-3