THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

LODI UNIFIED SCHOOL DISTRICT

VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

17670 BRUELLA ROAD
LODI, CA 95240

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
5. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
6. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
9. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
11. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
12. CONTRACTOR SHALL EXCERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
13. CHANGES TO THE APPROVED DRAWINGS AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER.
14. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
15. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
16. THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK, INCLUDING BUT NOT LIMITED TO INSTALLATION OF CONDUIT, MANHOLES, PULLBOXES, ETC WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURING OUTSIDE OF SHOWN LIMIT OF WORK LINES.
17. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
18. CHANGE 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.
19. A FULL TIME "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. INSPECTOR TO BE CLASS 1.
20. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. THE REPORTS SHALL BE SUBMITTED TO ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, OWNER, INSPECTOR OR RECORD, AND THE DSA FIELD ENGINEER. THE REPORTS OF ANY FAILURES OF TESTS AND INSPECTIONS ARE TO BE SUBMITTED TO DSA DISTRICT STRUCTURAL ENGINEER.
21. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
22. SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
23. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED 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)
24. CONTRACTOR IS TO REVIEW AND COMPLY WITH ALL REQUIREMENTS AND MITIGATION MEASURES SET FORTH IN BOTH THE ENVIRONMENTAL IMPACT REPORT (ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT | SCH NO. 2002071120) INCLUDING ATTACHED BIOLOGICAL RESOURCES TECHNICAL REPORT.
25. NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.
26. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA COADE OF REGULATIONS (CCR).
27. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DEVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
28. A "DSA CERTIFIED" CLASS 3 MIN. 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.
29. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

CODES

PARTIAL LIST OF APPLICABLE CODES

2022	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022	CALIFORNIA HISTORICAL BUILDING CODE (CHBC), PART 8, TITLE 24 C.C.R.
2022	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R. (2021 INTERNATIONAL EXISTING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022	CALIFORNIA REFERENCED STANDARDS, PART 12,TITLE 24 C.C.R.
TITLE 19	C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2019	ASME A17.1/B44-19 SAFETY CODE FOR ELEVATORS AND ESCALATORS
2020	ASME 18.1 - SAFETY STANDARD FOR PLATFORM LIFTS AND STAIRWAY CHAIR LIFTS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR AUTOMATIC FIRE SPRINKLER SYSTEMS (CA AMENDED)	2022 ED.
NFPA 14	STANDARD FOR STANDPIPE AND HOSE SYSTEMS (CA AMENDED)	2019 ED.
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 ED.
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 ED.
NFPA 20	STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION	2019 ED.
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 ED.
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES (CA AMENDED)	2019 ED.
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE (CA AMENDED)	2022 ED.
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 ED.
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)	2018 ED.
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2014)
UL 464	AUDIBLE SIGNAL APPLIANCES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 ED.
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 ED. (R2005)
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 ED. (R2018)
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS	2017 ED.

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 NFPA STANDARDS.

PROJECT DESCRIPTION

RELOCATION OF (2) 24' X 40' PC RELOCATABLE CLASSROOM BUILDINGS, (1) 12' X 40' PC LUNCH SHELTER, AND NEW BUS DROP OFF WITH ACCOMPANYING SITE WORK

PROJECT DATA

PROJECT ADDRESS:
17670 BRUELLA ROAD
LODI, CA 95240

STATEMENT OF GENERAL CONFORMANCE

(X) THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET
(X) 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 CERTIFY THAT:

THE PC APPROVED MANUFACTURER DRAWINGS LISTED ON THE INDEX SHEET ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND THEY HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

10/26/2023
DATE

Jeffrey Grau
PRINT NAME

C-14648
LICENSE NUMBER

07-31-25
EXPIRATION DATE

SHEET INDEX

NUMBER	NAME
GENERAL	
G0.1	COVER SHEET
G1.1	LOCAL FIRE AUTHORITY SITE ACCESS PLAN
CIVIL	
C0.1	CIVIL GENERAL NOTES AND ABBREVIATIONS
C0.2	TOPOGRAPHIC SURVEY
C1.1	DEMOLITION PLAN
C1.2	ENGINEERED FILL PLAN
C2.1	GRADING PLAN
C2.2	GRADING PLAN
C2.3	GRADING PLAN
C3.1	UTILITY PLAN
C4.1	PAVING PLAN
C4.2	STRIPING PLAN
C5.1	EROSION CONTROL PANEL
C6.1	DETAILS AND SECTIONS
C6.2	DETAILS AND SECTIONS
ARCHITECTURE	
A1.1	CODE ANALYSIS AND SITE PLAN
A1.2	ENLARGED SITE PLANS
A1.3	ENLARGED SITE PLANS AND SECTION
A2.1	PLANS AND EXTERIOR ELEVATIONS
A10.1	SITE AND GATE DETAILS
A10.2	SITE AND GATE DETAILS
A10.3	TYPICAL MOUNTING HEIGHTS AND DETAILS
ELECTRICAL	
E0.1	ELECTRICAL COVER SHEET
E0.2	ELECTRICAL ONE-LINE DIAGRAM
E0.3	ELECTRICAL DETAILS
E1.0	POWER SITE PLAN
E2.0	LIGHTING SITE PLAN
E3.0	SIGNAL SITE PLAN
E3.1	SIGNAL FLOOR PLAN
E4.0	FIRE ALARM SITE PLAN
E4.1	FIRE ALARM FLOOR PLAN
E5.0	TITLE 24 - LTO FORMS
PORTABLE CLASSROOM (PC 04-103216)	
A.0	COVER SHEET
A1.0	FLOOR PLAN
A2.0	ROOF PLAN
A3.01	EXTERIOR ELEVATIONS (W/O FASCIA)
A4.0	INTERIOR ELEVATIONS
A5.0	SCHEDULE SHEET
A6.0	ARCHITECTURAL DETAILS
A6.0M	ARCHITECTURAL DETAILS
A6.1	ARCHITECTURAL DETAILS
A6.1M	ARCHITECTURAL DETAILS
A7.01	REFLECTED CEILING PLAN (18 LIGHTS)
A7.1	REFLECTED CEILING DETAILS
A8.0	SPECIFICATIONS
A8.1	SPECIFICATIONS
E1.01	ELECTRICAL PLAN (W/ DATA)
F1.0	FOUNDATION PLAN
F2.01	FOUNDATION DETAILS (W/ 4 PLATES)
M1.01	MECHANICAL PLAN (5 TONS)
R1.01	RAMP/LANDING (12' RAMP)
R1.02	RAMP/LANDING DETAILS
S1.0	FLOOR FRAMING PLAN
S1.2	FLOOR FRAMING PLAN
S2.01	ROOF FRAMING PLAN (W/O FASCIA)
S2.1	STRUCTURAL DETAILS
S3.0	STRUCTURAL ELEVATIONS (W/O FASCIA)
S4.0	WALL FRAMING (WOOD STUDS)
S4.0M	WALL FRAMING (METAL STUDS)
S5.0	FRAMING DETAILS (WOOD STUDS)
S5.0M	WALL FRAMING DETAILS (METAL STUDS)
S5.1	WALL FRAMING DETAILS (WOOD STUDS)
S5.1M	WALL FRAMING DETAILS (METAL STUDS)

NUMBER	NAME
PORTABLE CLASSROOM (PC 264)	
TS-1	TITLE & BUILDING DATA NOTES
N-1	GENERAL NOTES
1	FLOOR PLAN & NOTES
2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS AND NOTES
S1A	FOUNDATION PLAN, DETAILS & NOTES
S2	FLOOR FRAMING PLAN AND BUILDING SECTIONS
S3	ROOF FRAMING PLAN & DETAILS
S4	FRAMING ELEVATIONS & DETAILS
S5	FRAMING ELEVATIONS AND DETAILS
S6R	RAMP PLAN ELEVATION AND DETAILS
M1	FLOOR PLAN & NOTES
E1	FLOOR PLAN & NOTES
E2	ELECTRICAL SYMBOLS, NOTES AND DETIALS
E3	ELECTRICAL SITE AND FLOOR PLAN
ES-1	ELECTRICAL SPECS
ES-2	ELECTRICAL SPECS
PORTABLE TOILET BUILDING (PC 02-118743)	
A0	COVER SHEET, BUILDING CODES, C.B.C. DATA, SHEET INDEX
A1A	STAFF, BOYS, GIRLS RESTROOM FLOOR PLAN, INTERIOR & EXTERIOR ELEVATIONS, MATERIAL SPECIFICATIONS, & NOTES
A1D	ROOF PLANS & DETAIL
AIN	MATERIAL SPECIFICATIONS & NOTES
A1R	ROOFING ATTACHMENT
A2	REFLECTED CEILING PLANS & CEILING ATTACHMENT DETAILS
AGB	GREEN BUILDING STANDARDS AND SOLAR READY REQUIREMENTS
EN1	ENERGY COMPLIANCE
EN2	ENERGY COMPLIANCE
EN3	ENERGY COMPLIANCE
EN4	ENERGY COMPLIANCE
EN5	ENERGY COMPLIANCE
A3	ELECTRICAL POWER PLAN, SIGNAL PLAN, LIGHTING PLAN, DETAILS, ELECTRICAL NOTES
A3.1	LIGHTING NOTES & DIAGRAMS
A4	SECTIONS AND DETAILS WITHOUT OVERHANG 2x4 EXTERIOR WALLS (NON-RATED)
A4H	INTERIOR WALL CONNECTION DETAILS
A5	MISCELLANEOUS DETAILS
A6	DETERIORATION PROTECTION (2x4 EXTERIOR WALLS) (WOOD FLOORS) (BUILDING UNDER 2160 S.F.)
S1W65	65 P.S.F. WOOD FOUNDATION PLAN, PIER DETAILS, NOTES
S 2	BI-PITCH ROOF, CEILING, & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
S3FA	FASTENING SCHEDULE & NOTES
S 3	BI-PITCHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION
S 4	STRUCTURAL CONNECTION DETAILS
S4.1	OPTIONAL STRUCTURAL DETAILS
S4.2	MISCELLANEOUS STRUCTURAL DETAILS
S5R	ACCESSIBLE RAMP & PLATFORM DETAILS
S5R.1	PLATFORM DETAILS (PLATFORM OVER 18" HEIGHT)
WC1	CANOPY FRAMING & CONNECTION DETAILS
WC2	CANOPY FRAMING & CONNECTION DETAILS
SHADE STRUCTURE (PC 02-119078)	
REK1.0	ORDER FORM
REK1.1	NOTES AND SPECIAL INSPECTIONS
REK2.3	FOUNDATION PLAN DRILLED PIER
REK3.1	FRAMING PLAN
REK4.2	FRAME CONNECTION DETAILS
REK4.3	SECTION DETAILS
REK5.1	ARCHITECTURAL VIEWS
REK6.1	ROOF CONNECTION DETAILS
REK7.0	MISC DESIGN OPTIONS
REK7.1	ELECTRICAL CUTOUTS

TOTAL SHEET COUNT: 119

GENERAL NOTES CONT.

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 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)
31. GRADING PLANS, DRAINAGE IMPROVMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATION SHALL COMPLY WITH ALL LOCAL ORDINANCES.
32. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(C) PART 1, TITLE 24 CCR.

ABBREVIATIONS

(E)	EXISTING
AB	ANCHOR BOLT
AC PAVING	ASPHALTIC CONCRETE PAVING
ACC	ACCESS/ACCESSIBLE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
ATT	ATTENUATION
AUTO	AUTOMATIC
BD	BOARD
BLCG	BLOCKING
BUR	BUILT UP ROOFING
CABT	CABINET
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMP	COMPRESSION / COMPOSITE
CF	CUBIC FEET
COORD	COORDINATE
CORR	CORRUGATED
CT	CERAMIC TILE
CTSK	COUNTER SKUNK
CW	CURTAINWALL
DEPR	DEPRESSED / DEPRESSION
DF	DRINKING FOUNTAIN
DIM	DIMENSION
DISP	DISPENSER
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
E/W	EACH WAY
EIFS SYSTEM	EXTERIOR INSULATION FINISH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION / ELEVATOR
ENCL	ENCLOSE / ENCLOSURE
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
ESC	EXCUTCHEON
EWC	ELECTRIC WATER COOLER
EXP	EXPOSED
FA	FIRE ALARM
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER W/ CABINET
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FSH	FLAT HEAD SCREW
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FIREPROOFING
FR	FIRE RATED
FRG	FIRE RATED GLASS
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FS	FINISH SURFACE
FTG	FOOTING
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS TYPE
GLB	GLUE LAMINATED BEAM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTIC
HB	HOSE BIBB
HD	HEAVY DUTY
HDR	HEADER
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HP	HIGH POINT
HSS	HOLLOW STEEL SECTION
ID	INSIDE DIAMTER
INT	INTERIOR
INV	INVERT
LANDS	LANDSCAPE
LAV	LAVATORY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT WT	LIGHT WEIGHT
LVR	LOUVER
MACH	MACHINE
MB	MACHINE BOLT
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NIC	NOT IN CONTRACT
NR	NON RATED
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O/	OVER
O/A	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFVI	OWNER FURNISHED, VENDOR INSTALLED
OH	OPPOSITE HAND
OPER	OPERABLE
OPNG	OPENING
ORD	OVERFLOW ROOF DRAIN
P/L	PROPERTY LINE
PA	PUBLIC ADDRESS
PAF	POWDER ACTUATED FASTENER PAVING
PCC	PORTLAND CEMENT CONCRETE PAVING
PED	PEDESTRIAN
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PH	PANIC HARDWARE
PIV	POST INDICATOR VALVE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PNL	PANEL
PNT	PAINT / PAINTED
POC	POINT OF CONNECTION
POLY ISO	POLYISOCYANURATE
PREFIN	PREFINISHED
PREP	PREP / PREPARATION
PTC	POST TENSIONED CONCRETE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION / SYSTEM
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RADIUS, RISER
RB	RESILIENT BASE
RD	ROOF DRAIN
RECEPT	ECEPTACLE
REF	REFERENCE
REFL	REFLECT(ED), (IVE)
REFL	REFLECT(ED), (IVE)
REFR	REFRIGERATOR
REINF	REINFORCE/REINFORCED/ REINFORCEMENT
REM	REMOVE
RH	ROUND HEAD
RHS	ROUND HEAD SCREW
RO	ROUGH OPENING
ROW	RIGHT OF WAY
SCH	SCHEDULE (FOR PIPE)
SCHED	SCHEDULE / SCHEDULING
SD	STORM DRAIN / SOAP DISPENSER
SECT	SECTION
SG	SAFETY GLASS
SHT	SHEET
SHTG	SHEATHING
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPOSAL
SOV	SHUT OFF VALVE
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STC	SOUND TRAMISSION CLASS
STL	STEEL
STSMS SCREW	SELF TAPPING SHEET METAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
TO	TOP OF
TOC	TOP OF CURB / CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TS	TACKABLE SURFACE
U/C	UNDER CABINET (OR COUNTER
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VAC	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WGT	WEIGHT
WH	WATER HEATER
WP	WATERPROOFING/WALL PROTECTION
WR	WATER RESISTANT
WRGB	WATER RESISTANT GYPSUM BOARD
WS	WOOD SCREW
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC

NOTE:
OTHER ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED STANDARDS IN THE BUILDING INDUSTRY. CONTACT ARCHITECT FOR NECESSARY CLARIFICATION.

SYMBOL LEGEND

NORTH ARROW
N
TICK INDICATES PLAN NORTH
ARROW INDICATES TRUE NORTH

ELEVATION CALLOUT
(TYPICAL FOR EXTERIOR)
1 / AX.XX
LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT
(TYPICAL FOR INTERIOR)
A1 / A2 / A3 / A4 / AX.XX
LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

SECTION CALLOUT
SIM / 1 / AX.XX
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

DETAIL CALLOUT
SIM / 1 / AX.XX
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

CONTROL OR DATUM POINT
FIRST FLOOR / +0' - 0"
NAME OF ELEVATION (IF APPLICABLE)
ELEVATION ABOVE FINISHED FLOOR

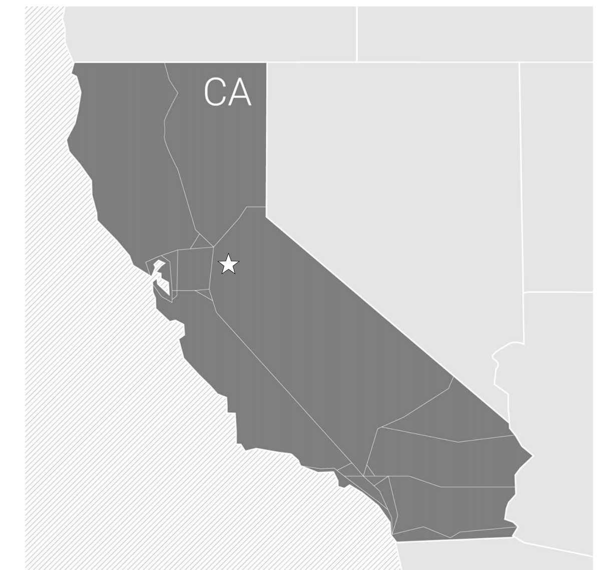
DOOR CALLOUT
101A
DOOR NUMBER

INTERIOR FINISH CALLOUT
FA
MATERIAL FINISH TYPE
(SEE FINISH SCHEDULE)

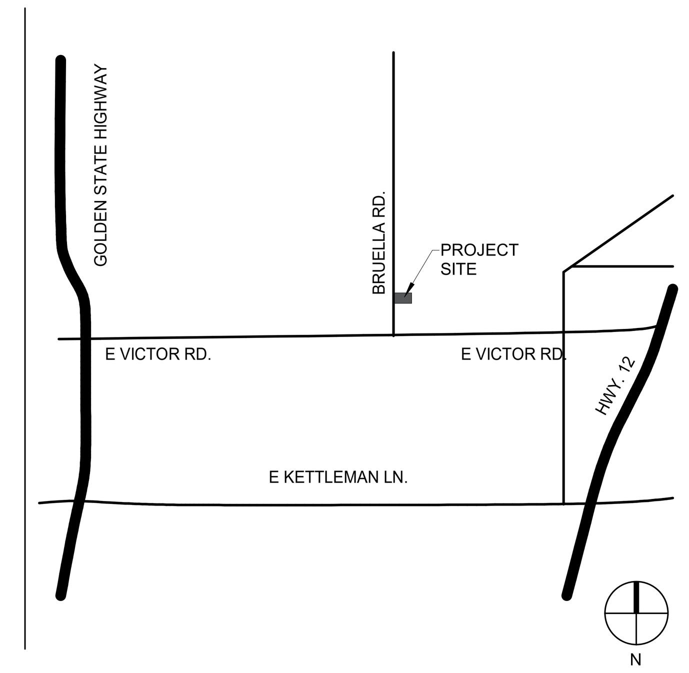
WINDOW CALLOUT
09-WF1
WINDOW NUMBER
(SEE WINDOW SCHEDULE)

KEYNOTE
?
KEYNOTE NUMBER (SEE LEGEND ON SHEET)

STATE MAP



VICINITY MAP



HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT TEAM

OWNER
LODI UNIFIED SCHOOL DISTRICT
1305 E. VINE ST., LODI, CA 95240
(209) 331-7000

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

ELECTRICAL
CAPITOL ENGINEERING CONSULTANTS
11020 SUN CENTER DR STE 100, RANCHO CORDOVA , CA 95670
(916) 851-3500

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
COVER SHEET

BID SET

CONSTRUCTION DOCUMENTS

DATE: **10/26/2023** PROJ NO: **R221551X01**

SHEET:
G0.1

PLEASE RECYCLE

Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
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DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION

School District:	LODI UNIFIED SCHOOL DISTRICT
Project name / school:	VICTOR ELEMENTARY SCHOOL
Project address:	17670 BRUELLA ROAD LODI, CA 95240

FIRE & LIFE SAFTEY INFORMATION — ALTERNATE ACCEPTED

1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test date)*	Yes [X]	No [ ]
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes [ ]	No [X]
3.	Is the project located within a designated fire hazard severity zone as established by Cal-Fire? *(If yes, indicate fire hazard zone classification below)*	Yes [ ]	No [X]

	Moderate	High	Very High
Refer to the following for fire hazard zone locations: *www. fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps*	[ ]	[ ]	[ ]
Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A)*			WIFA [ ]

CONDITION MEANS AND METHODS RESOLUTION — ALTERNATE ACCEPTED

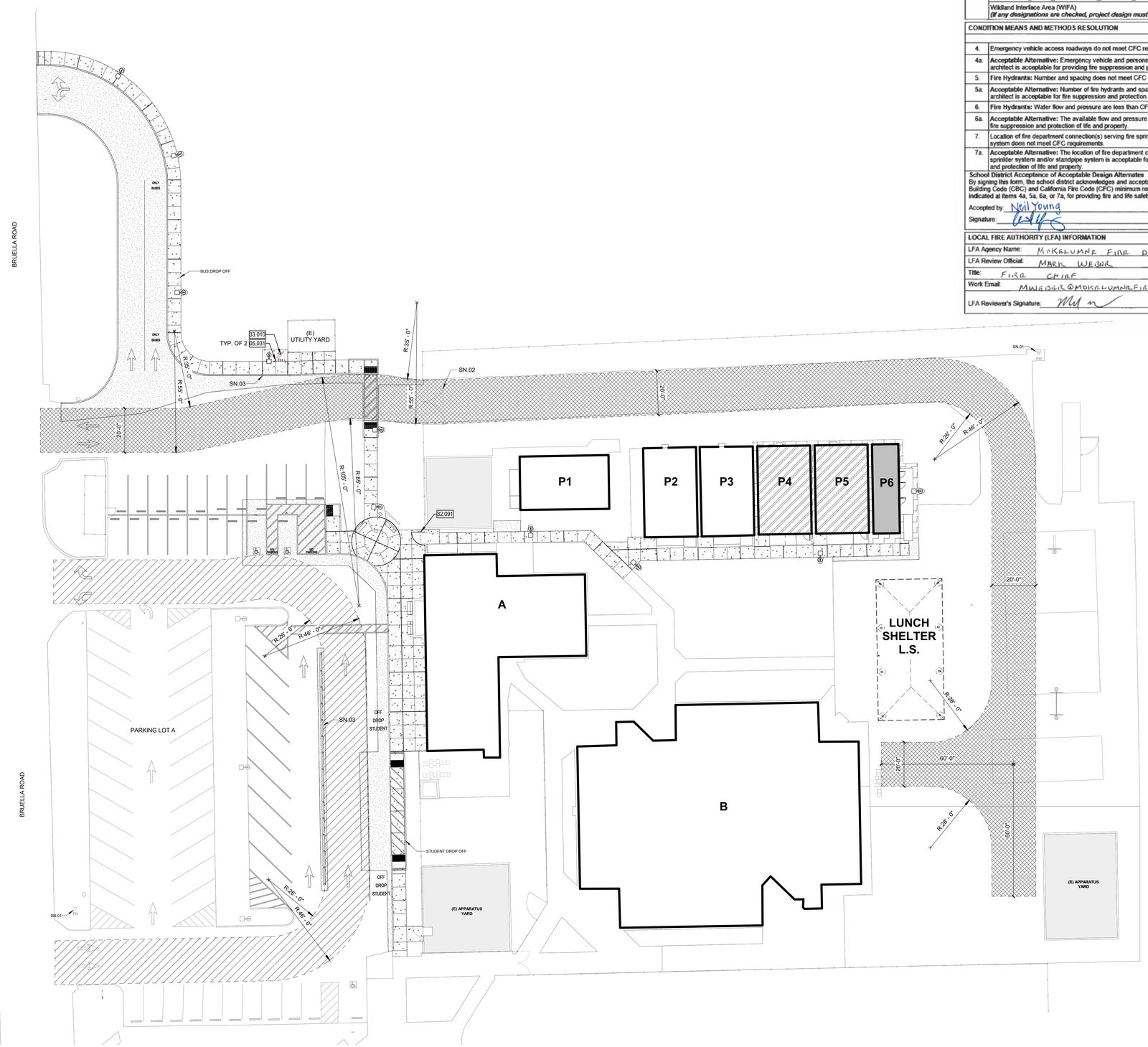
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements			X	
4a.	**Acceptable Alternative:** Emergency vehicle and personel access as proposed by the architect is acceptable for providing fire suppression and protection of life and property				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements			X	
5a.	**Acceptable Alternative:** Number of fire hydrants and spacing as proposed by the 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 Alternative:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	X			
7.	Location of fire department connection(s) serving fire sprinkler system or standpipe system does not meet CFC requirements.			X	
7a.	**Acceptable Alternative:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements as indicated by one of 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: Neil Young Title: Superintendent
Signature: [signature] Date: 10/19/2023

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name:	MOKELUMNE FIRE DISTRICT
LFA Review Official:	MARK WEBER
Title:	FIRE CHIEF — Work Phone:
Work Email:	MWEBER@MOKELUMNEFIRE.ORG
LFA Reviewer's Signature:	[signature] Date: 10/19/23



LOCAL FIRE AUTHORITY SITE PLAN 01 1" = 20'-0"

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAD C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

LEGEND

- X — EXISTING BUILDINGS
- X — NEW BUILDING
- X — RELOCATED PORTABLE BUILDING
- FIRE LANE
- EXISTING FIRE HYDRANT

KEYNOTES

05.031	PIPE BOLLARD
32.091	CHAIN LINK GATE: SWING
33.010	FIRE HYDRANT

SHEET NOTES

SN.01 (E) FIRE HYDRANT
SN.02 (E) 20' WIDE X 6' HIGH CHAIN LINK GATE
SN.03 FIRE LANE CURB, PAINT RED PER CIVIL DWGS

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
LOCAL FIRE AUTHORITY SITE ACCESS PLAN

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807
DATE: 10/26/2023
CLIENT PROJ NO: R221551X01
SHEET:

G1.1

Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
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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
TR	TOP OF RAMP ELEVATION
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

DEMOLITION GENERAL NOTES

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE CONSTRUCTION DOCUMENTS ARE ENCOUNTERED DURING GRADING OPERATIONS 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.

UTILITY VERIFICATION NOTE

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

IRRIGATION DEMOLITION NOTE

WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.

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.
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 SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS. HYDRO
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 1.0% 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.

CIVIL SHEET INDEX

C0.1 CIVIL GENERAL NOTES AND ABBREVIATIONS
C0.2 TOPOGRAPHIC SURVEY
C1.1 DEMOLITION PLAN
C1.2 ENGINEERED FILL PLAN
C2.1 GRADING PLAN
C2.2 GRADING PLAN
C2.3 GRADING PLAN
C3.1 UTILITY PLAN
C4.1 PAVING PLAN
C4.2 STRIPING PLAN
C5.1 EROSION CONTROL PLAN
C6.1 DETAILS AND SECTIONS
C6.2 DETAILS AND SECTIONS

AGENCY APPROVAL:

LODI USD

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KEYNOTES

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KEY PLAN:

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
CIVIL GENERAL NOTES AND ABBREVIATIONS BID SET

CONSTRUCTION DOCUMENTS

DATE: **10/26/2023** | CLIENT PROJ NO: **R221551X01**

SHEET:

C0.1

FILENAME:I:\23-078\CIVIL\DWG\23-078-C01.DWG

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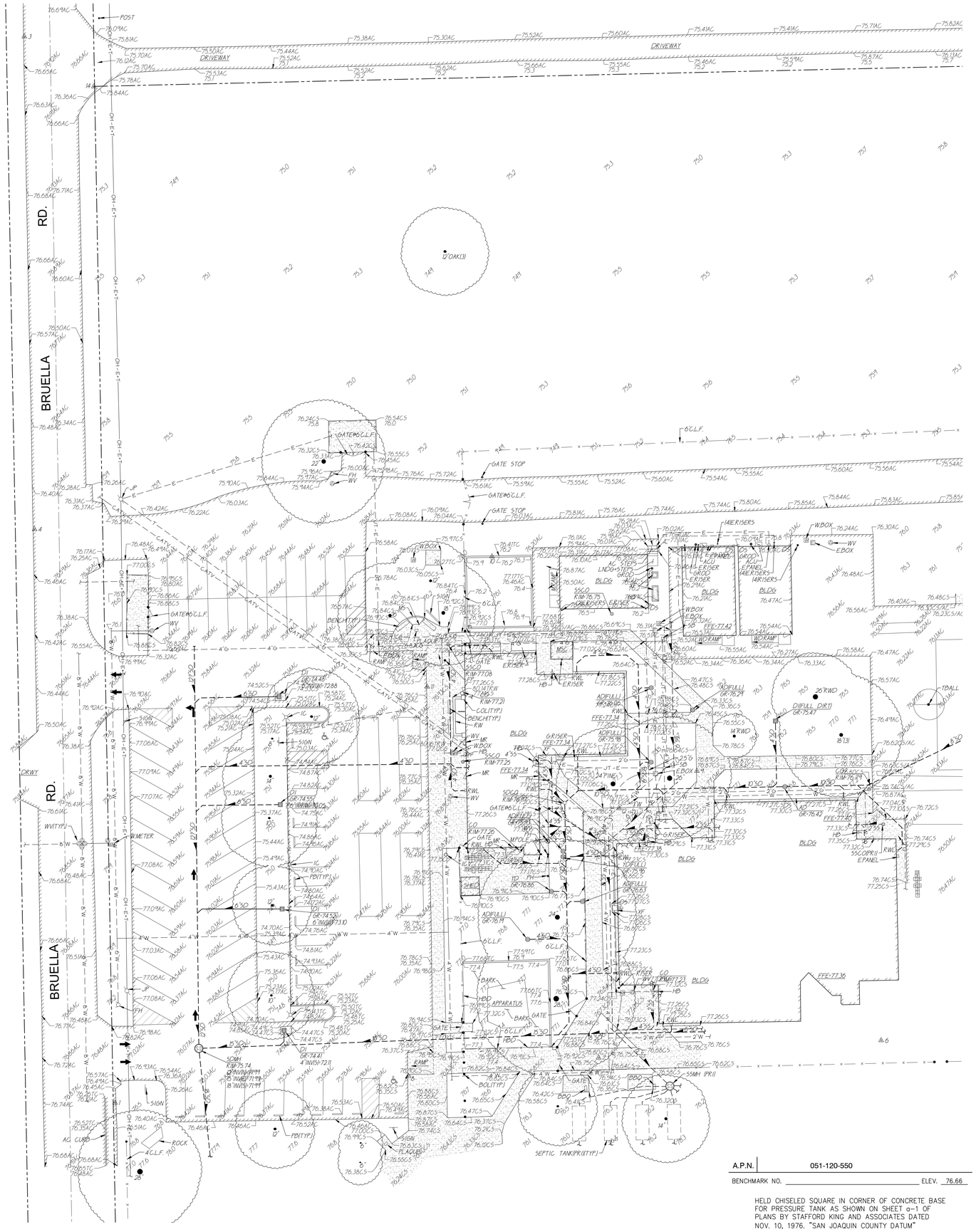

EXISTING TOPOGRAPHY

- = PROPERTY LINE
- = CENTERLINE
- = EASEMENT
- = PROPERTY CORNER FOUND AS NOTED
- = PROPERTY CORNER NOTHING FOUND OR SET
- 123 = TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- = SWALE OR DRAINAGE FLOW
- = DRAINAGE FLOW
- = FENCE (TYPE NOTED)
- = TREE (SIZE/TYPE INDICATED)
- = SLOPE
- 100 = CONTOUR
- = CONCRETE SURFACE
- = EDGE OF ASPHALT
- = EDGE OF BUILDING
- = SIGN
- = POST OR BOLLARD
- 99.9 = GROUND ELEVATION
- 99.99 = HARD SURFACE ELEVATION

EXISTING UTILITIES

- 12"SD = STORM DRAIN LINE (SIZE & DIRECTION OF FLOW)
- 12"SD = STORM DRAIN LINE (RECORD INFORMATION)
- 12"SD = STORM DRAIN LINE (UNDERGROUND LOCATING)
- SD = STORM DRAIN MANHOLE
- = STORM DRAIN CLEANOUT
- = DROP INLET
- = AREA DRAIN
- RWL = RAIN WATER LEADER
- DS = DOWNSPOUT
- 12"SS = SANITARY SEWER LINE (SIZE & DIRECTION OF FLOW)
- 12"SS = SANITARY SEWER LINE (RECORD INFORMATION)
- 12"SS = SANITARY SEWER LINE (UNDERGROUND LOCATING)
- SS = SANITARY SEWER MANHOLE
- = SANITARY SEWER CLEANOUT
- W = WATER LINE (SIZE INDICATED)
- W = WATER LINE (RECORD INFORMATION)
- W = WATER LINE (UNDERGROUND LOCATING)
- W = WATER MANHOLE
- = WATER VALVE
- = WATER METER
- = WATER BOX
- = IRRIGATION CONTROL VALVE
- = FIRE HYDRANT
- = BACKFLOW PREVENTER
- = SPRINKLER
- = HOSE BIBB
- OH-E = OVERHEAD ELECTRIC LINE
- E = UNDERGROUND ELECTRIC LINE
- E = UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
- E = UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
- E = ELECTRIC MANHOLE
- = UTILITY POLE (WITH GUY WIRE)
- = ELECTRIC METER
- = ELECTRIC BOX
- = STREET LIGHTING BOX
- OR = LIGHT STANDARD
- = SIGNAL LIGHT
- = FLOOD LIGHT
- = ELECTRICAL OUTLET
- G = GAS LINE (SIZE INDICATED)
- G = GAS LINE (RECORD INFORMATION)
- G = GAS LINE (UNDERGROUND LOCATING)
- G = GAS MANHOLE
- = GAS VALVE
- = GAS METER
- T = TELEPHONE LINE
- T = TELEPHONE LINE (RECORD INFORMATION)
- T = TELEPHONE LINE (UNDERGROUND LOCATING)
- = STORM DRAIN BOX
- = TRAFFIC SIGNAL BOX

ABBREVIATIONS

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

AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
APP	APPARATUS
BBALL	BASKETBALL POLE
BCM	BRASS CAP MONUMENT
BFP	BACK FLOW PREVENTER
BL.	BLOCK
BLDG	BUILDING
BOL	BOLLARD
BOV	BLOW-OFF VALVE
BR.	BRICK
B.W.F.	BARBED WIRE FENCE
C	COMMUNICATION
C/L	CENTERLINE
CATV	CABLE TELEVISION
CIP	CAPPED IRON PIPE
C.L.F.	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
COL	COLUMN
CONC.	CONCRETE
COND.	CONDENSATE
CPF	CONTROL POINT FOUND
CPS	CONTROL POINT SET
CS	CONCRETE SURFACE
D	DEPTH
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DRWY	DRIVEWAY
DS	DOWNSPOUT
DWG	DRAWING
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FLOWLINE
FO	FIBER OPTIC
FS	FIRE SERVICE
G	GAS
GB	GRADE BREAK
GR	GRATE
GRB	GROUND ROD BOX
GROD	GROUND ROD
GV	GAS VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HP	HIGH PRESSURE
HR	HANDRAIL
HVE	HIGH VOLTAGE ELECTRIC
HWF	HOG WIRE FENCE
IC	IN CONCRETE
ICP	IRRIGATION CONTROL PANEL
ICV	IRRIGATION CONTROL VALVE
INV	PIPE INVERT ELEVATION
IRR	IRRIGATION
JP	JOINT UTILITY POLE
JT	JOINT TRENCH
LNDG	LANDING
LVE	LOW VOLTAGE ELECTRIC
M.	METAL
MH	MANHOLE
MS	MOW STRIP
MSC	METAL STORAGE CONTAINER
NTS	NOT TO SCALE
OH	OVERHEAD
OHANG	OVERHANG
OIP	OPEN IRON PIPE
OSPH	OLD STEEL POST HOLE
P/L	PROPERTY LINE
PA	PLANTER AREA
PB	PARKING BUMPER
PH	POSTHOLE
PIV	POST INDICATOR VALVE
PP	POWER POLE
PRKG	PARKING
PUE	PUBLIC UTILITY EASEMENT
PV	PAVERS
PVC	POLYVINYL CHLORIDE
R	RUBBER
RG	ROLLING GATE
RIM	MANHOLE RIM ELEVATION
ROW	RIGHT OF WAY
RW	RETAINING WALL
RWD	REDWOOD
RWL	RAIN WATER LEADER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SIG	SIGNAL
SL	STREET LIGHT
SLB	STREET LIGHT BOX
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STL.	STEEL
T	TELEPHONE
TBALL	TETHER BALL POLE
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TOW	TOP OF WALL
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
UG	UNDERGROUND
UNK	UNKNOWN
V	VENT
VBALL	VOLLEYBALL
W	WATER
W/	WITH
WD.	WOOD
WF	WOOD FENCE
W.I.F.	WROUGHT IRON FENCE
W.R.F.	WOOD RAIL FENCE
XF	TRANSFORMER
XWALK	CROSSWALK

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	CPS PK+WASHER	9999.96	9995.01	76.52
2	CPF RR SPIKE	9681.34	10000.00	76.68
3	CPS PK+WASHER	10488.16	9953.46	76.66
4	CPS PK+WASHER	10262.51	9958.16	76.44
5	CPS CHISELED "+"	10050.19	10470.10	76.60
6	CPS CHISELED "+"	10028.52	10345.61	76.64
7	CPS CHISELED "+"	10020.53	10216.34	76.78
8	CPS CHISELED "+"	10012.15	10129.31	76.89
9	CPS CHISELED "+"	10151.85	10261.32	76.83
10	CPS CHISELED "+"	10250.08	10167.53	76.40
11	CPS CHISELED "+"	10190.43	10137.84	76.76
12	CPS CHISELED "+"	10134.75	10225.61	77.10
13	CPS PICKER	10285.73	10417.34	75.87
14	CPF RR SPIKE	10465.22	9985.28	75.86
15	CPF CHISLED SQ.	10115.33	9937.59	76.66

BASIS OF BEARINGS:
7 R.S. 159

F.E.M.A. INFORMATION:
THE SUBJECT PROPERTY IS LOCATED IN "ZONE X--AREA OF MINIMAL FLOOD HAZARD" PER FLOOD INSURANCE RATE MAP 06077C0190F DATED OCTOBER 16, 2009.

NOTE:
EXISTING UTILITIES BASED ON VISIBLE SURFACE STRUCTURES AND RECORD INFORMATION.

A.P.N. 051-120-550

BENCHMARK NO. _____ ELEV. 76.66

HELD CHISELED SQUARE IN CORNER OF CONCRETE BASE FOR PRESSURE TANK AS SHOWN ON SHEET o-1 OF PLANS BY STAFFORD KING AND ASSOCIATES DATED NOV. 10, 1976. "SAN JOAQUIN COUNTY DATUM"

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

NORTH

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AGENCY APPROVAL:

LODI USD

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17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
TOPOGRAPHIC SURVEY BID SET

CONSTRUCTION DOCUMENTS

DATE: 10/26/2023 CLIENT PROJ NO: R221551X01

SHEET:

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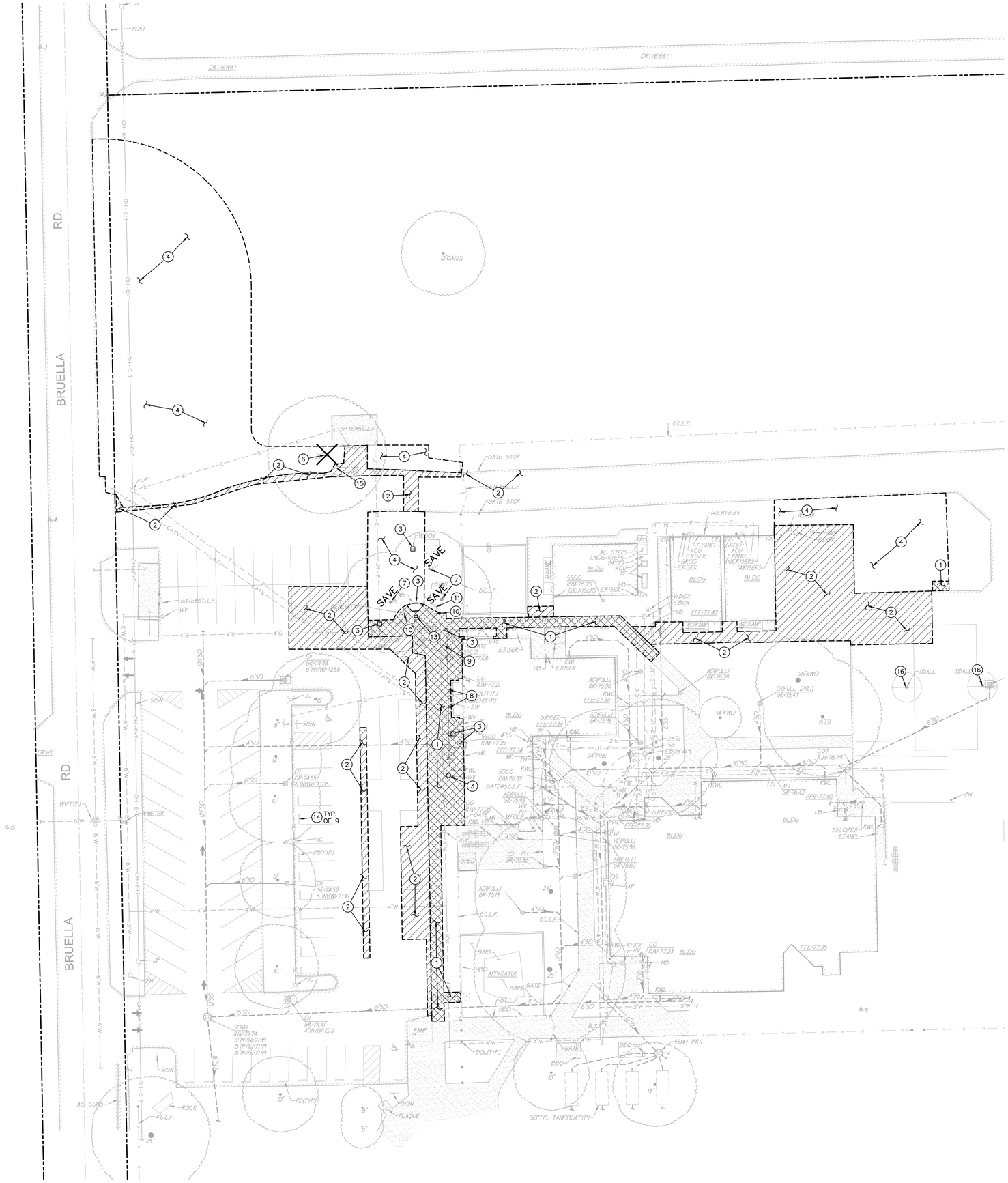

DEMOLITION NOTES

1. SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.
2. SAWCUT, REMOVE AND DISPOSE OF EXISTING ASPHALT PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.
3. REMOVE EXISTING UTILITY BOX AND/OR FRAME AND COVER AND PROVIDE NEW. NEW BOX SHALL BE SIMILAR IN SIZE, BUT WITH TRAFFIC RATING AND SLIP RESISTANT COVER.
4. CLEAR AND GRUB EXISTING VEGETATION.
5. REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE, POSTS AND ASSOCIATED FOOTINGS.
6. REMOVE AND DISPOSE OF EXISTING TREE, STUMP AND ROOTS.
7. EXISTING TREE TO REMAIN.
8. EXISTING BENCH TO REMAIN.
9. EXISTING FLAG POLE TO REMAIN.
10. REMOVE AND DISPOSE OF EXISTING BENCH AND ASSOCIATED FOOTINGS.
11. EXISTING SIGN TO REMAIN.
12. REMOVE AND DISPOSE OF EXISTING MOW STRIP.
13. EXISTING PLAQUE TO BE SALVAGED.
14. REMOVE AND SALVAGE EXISTING PARKING BUMPER FOR RE-USE.
15. REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT, BURY AND THRUST BLOCK
16. REMOVE AND DISPOSE OF EXISTING TETHERBALL POST. CUT POST FLUSH WITH PAVING AND GROUT FILL POST HOLE.

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

NORTH

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17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
DEMOLITION PLAN BID SET

CONSTRUCTION DOCUMENTS

DATE: **10/26/2023** | CLIENT PROJ NO: **R221551X01**

SHEET:

C1.1

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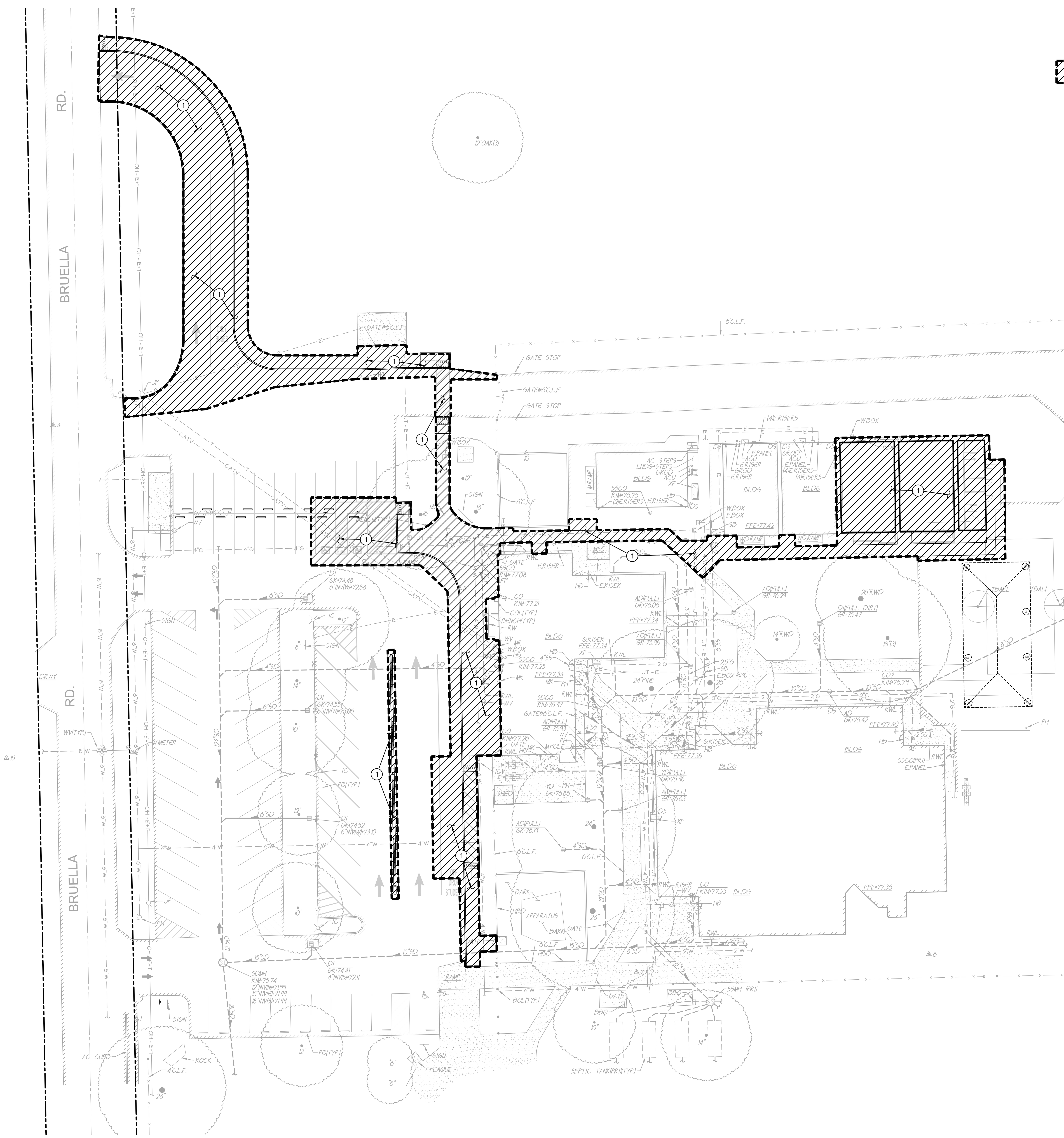

SUBGRADE PREPARATION

(1) FOLLOWING SITE CLEARING, STRIPPING AND DEMOLITION ACTIVITIES:

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

FOR AREAS TO BE FILLED TO ACHIEVE SUBGRADE, SCARIFY EXPOSED SOILS TO A MINIMUM DEPTH OF 12 INCHES AND UNIFORMLY MOISTURE CONDITION TO AT LEAST THE OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557. FILL MATERIAL SHALL BE PLACED IN LEVEL LAYERS NOT EXCEEDING 6 INCHES IN COMPACTED THICKNESS. FILL SHALL BE COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.

THE UPPER 6 INCHES OF SUBGRADE SUPPORTING ASPHALT PAVEMENT SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY.

SUBGRADE PREPARATION SHALL EXTEND AT LEAST 2 FEET BEYOND EDGE OF PROPOSED ASPHALT AND CONCRETE PAVING WHEN NOT ABUTTING EXISTING PAVING.

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 SHALL BE PERMITTED.
3. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLAN 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.

GRAPHIC SCALE

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LODI, CA 95240

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ENGINEERED FILL PLAN

BID SET

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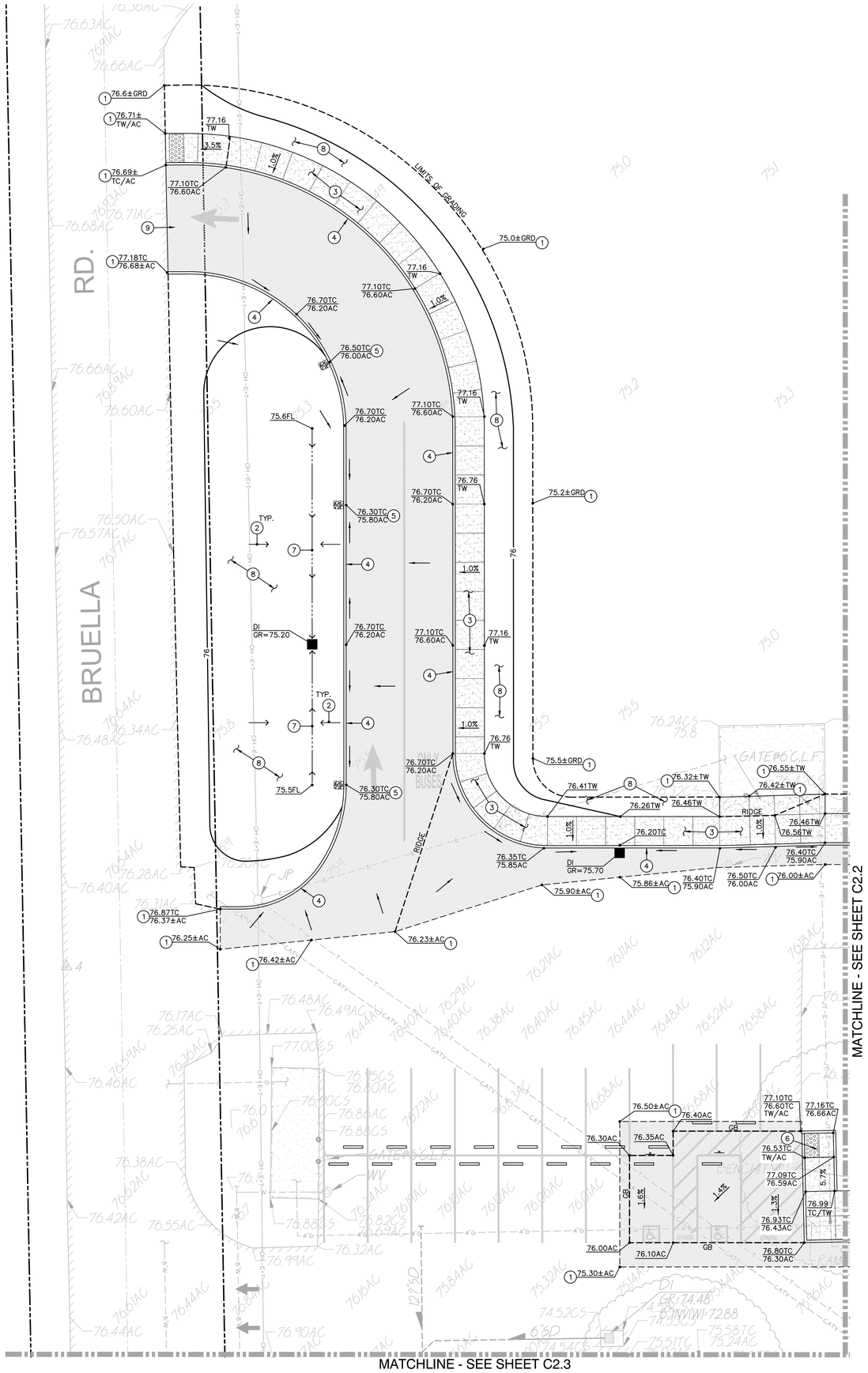

GRADING NOTES

1. MATCH EXISTING GRADE/ELEVATION.
2. GRADE UNIFORMLY TO INLET AND/OR SWALE.
3. CONSTRUCT CONCRETE SIDEWALK PER (1/C6.1)
4. CONSTRUCT CONCRETE CURB PER (2/C6.1)
5. PROVIDE 24" WIDE OPENING IN CURB PER (3/C6.1)
6. CONSTRUCT TYPE 1 ACCESSIBLE CURB RAMP PER (5/C6.1)
7. CONSTRUCT SWALE.
8. APPLY A NON-IRRIGATED HYDROSEED TO ALL AREAS DISTURBED BY GRADING ACTIVITIES THAT ARE NOT TO BE PAVED.
9. PLACE TRUNCATED DOMES PER (8/C6.1)

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GRADING NOTES

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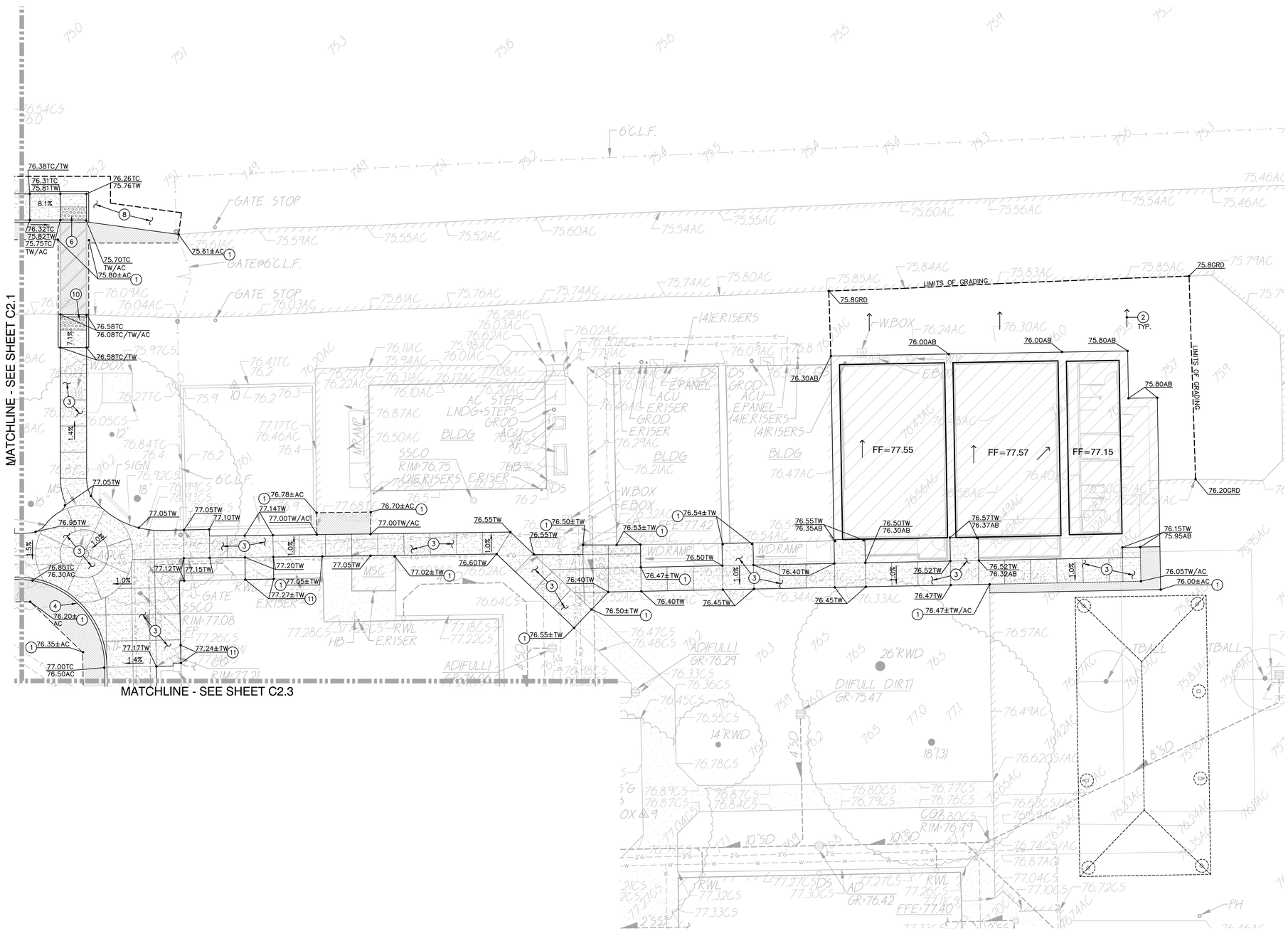
6. CONSTRUCT TYPE 1 ACCESSIBLE CURB RAMP PER (5 / C6.1)
8. APPLY A NON-IRRIGATED HYDROSEED TO ALL AREAS DISTURBED BY GRADING ACTIVITIES THAT ARE NOT TO BE PAVED.
10. CONSTRUCT TYPE 2 ACCESSIBLE CURB RAMP PER (7 / C6.1)
11. PROPOSED SIDEWALK ELEVATION SHALL NOT BE MORE THAN 1/4" BELOW EXISTING FINISH FLOOR ELEVATION.



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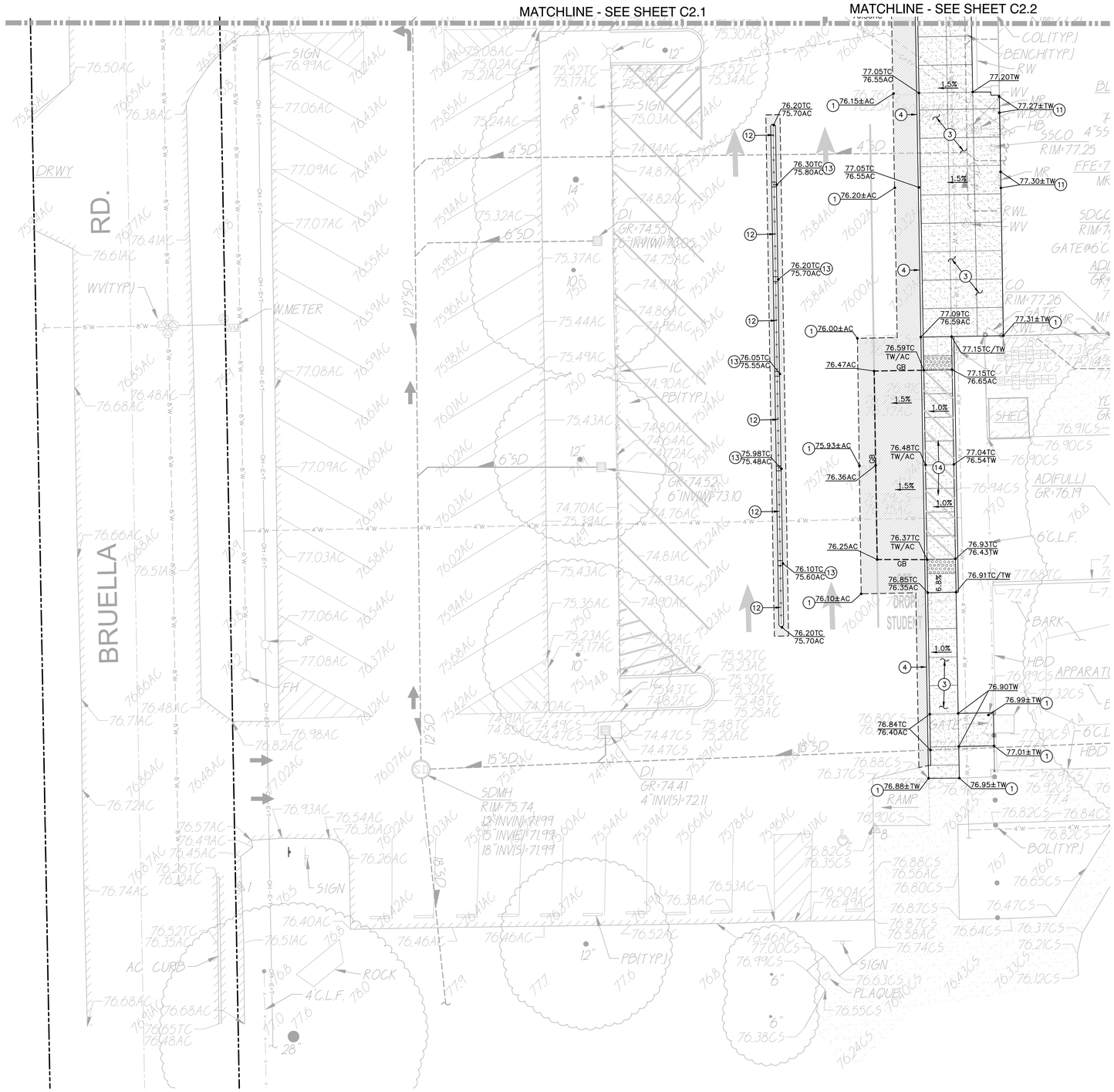


GRADING NOTES

1. MATCH EXISTING GRADE/ELEVATION.
3. CONSTRUCT CONCRETE SIDEWALK PER 1/C6.1
4. CONSTRUCT CONCRETE CURB PER 2/C6.1
11. PROPOSED SIDEWALK ELEVATION SHALL NOT BE MORE THAN 1/4" BELOW EXISTING FINISH FLOOR ELEVATION.
12. CONSTRUCT 12" WIDE CONCRETE CURB WITH FENCE PER 4/C6.1
13. PLACE 12" WIDE OPENING IN CURB TO ALLEVIATE DRAINAGE.
14. CONSTRUCT 40' WIDE ACCESSIBLE LOADING/UNLOADING ZONE PER 6/C6.1

GRAPHIC SCALE

10' 0 5' 10' 20'

(IN FEET) 1 inch = 10 feet

NORTH

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

AGENCY APPROVAL:

LODI USD

HMC Architects

2101 CAPITOL AVE SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

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

WCE

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

KEYNOTES

NOTES

KEY PLAN:

FACILITY:
VICTOR ELEMENTARY SCHOOL

17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
GRADING PLAN BID SET

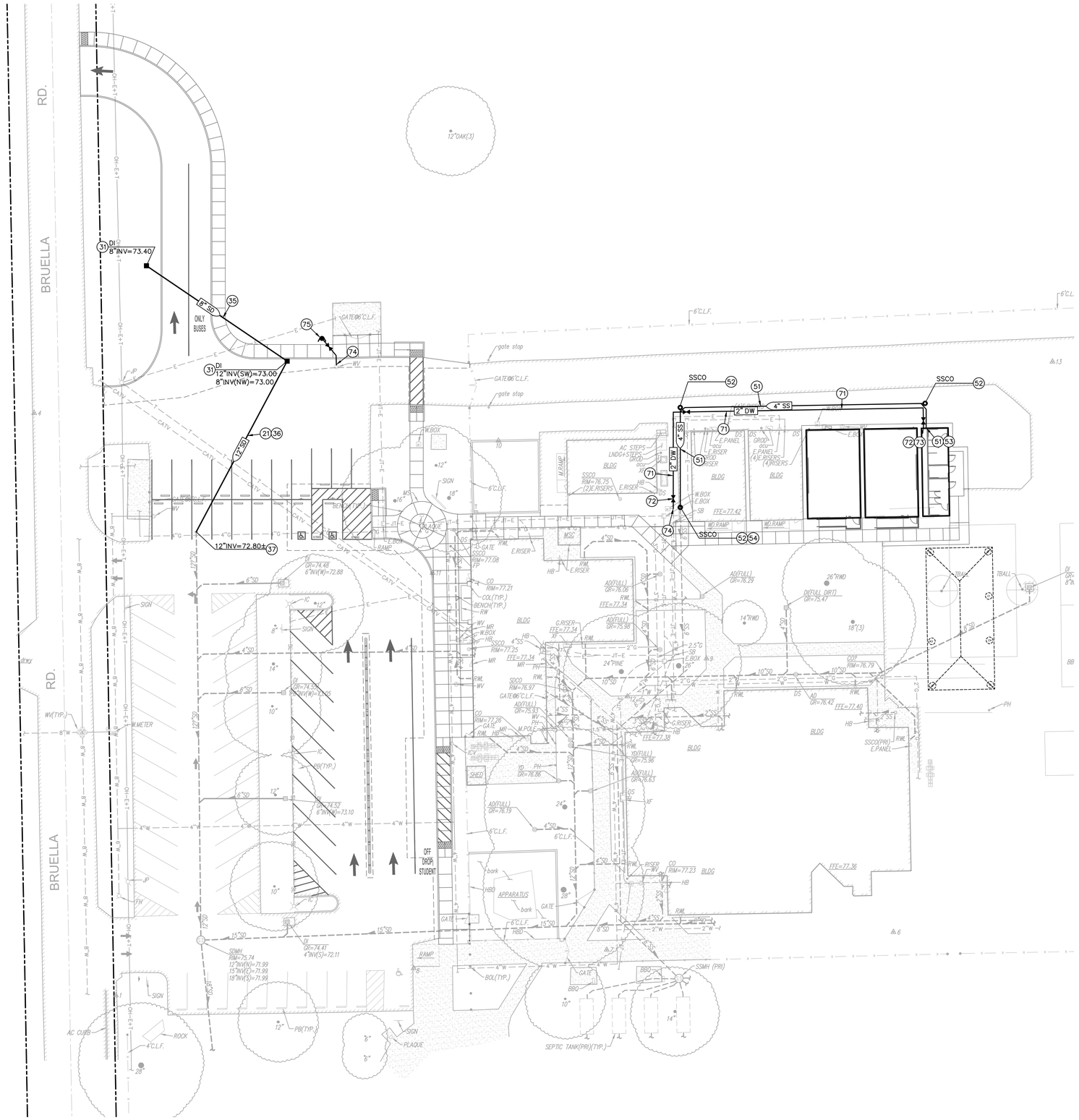
CONSTRUCTION DOCUMENTS

DATE: 10/26/2023 | CLIENT PROJ NO: R221551X01

SHEET:
C2.3

FILENAME:I:\23-078\CIVIL\DWG\23-078-C21-C23.DWG

PLEASE RECYCLE



ASPHALT TRENCH REPAIR

21. ASPHALT PAVING THAT IS SAWCUT/REMOVED FOR TRENCHING ACTIVITIES SHALL BE REPLACED WITH 3"AC OVER 12"AB. ANY STRIPING REMOVED SHALL BE REPLACED IN KIND. (4 / C6.2)

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.

DRAINAGE NOTES

31. CONSTRUCT DROP INLET PER (1 / C6.2)
32. CONSTRUCT AREA DRAIN PER (2 / C6.2)
33. CONSTRUCT STORM DRAIN CLEANOUT PER (3 / C6.2)
34. PLACE 4" STORM DRAIN PER
35. PLACE 8" STORM DRAIN PER (5 / C6.2)
36. PLACE 12" STORM DRAIN PER
37. CONNECT TO EXISTING STORM DRAIN. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

SEWER NOTES

51. PLACE 4" SEWER PER (5 / C6.2)
52. CONSTRUCT SEWER CLEANOUT PER (3 / C6.2)
53. CONNECT TO BUILDING SEWER SERVICE. COORDINATE EXACT LOCATION AND DEPTH AT BUILDING PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
54. CONNECT TO EXISTING SEWER. FIELD VERIFY EXACT DEPTH, AND LOCATION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

GENERAL THRUST BLOCK NOTE

1. ALL JUNCTION AND BENDS ON WATER MAIN PIPES 4" OR LARGER IN DIAMETER, VERTICAL AND HORIZONTAL SHALL BE PROTECTED WITH THRUST BLOCKS PER DETAIL (6 / C6.2)

WATER NOTES

71. PLACE 2" WATER PIPE PER (7 / C6.2)
72. PLACE GATE VALVE AND VALVE BOX. SIZE TO MATCH LINE SIZE. (8 / C6.2)
73. CONNECT TO BUILDING DOMESTIC WATER SERVICE. COORDINATE EXACT LOCATION AND DEPTH AT BUILDING PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
74. CONNECT TO EXISTING WATER LINE. FIELD VERIFY EXACT DEPTH AND LOCATION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
75. PLACE FIRE HYDRANT PER (9 / C6.2)

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

NORTH

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KEYNOTES

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KEY PLAN:

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
UTILITY PLAN BID SET

CONSTRUCTION DOCUMENTS

DATE: 10/26/2023 CLIENT PROJ NO: R221551X01

SHEET:
C3.1

FILENAME:I:\23-078\CIVIL\DWG\23-078-C31.DWG

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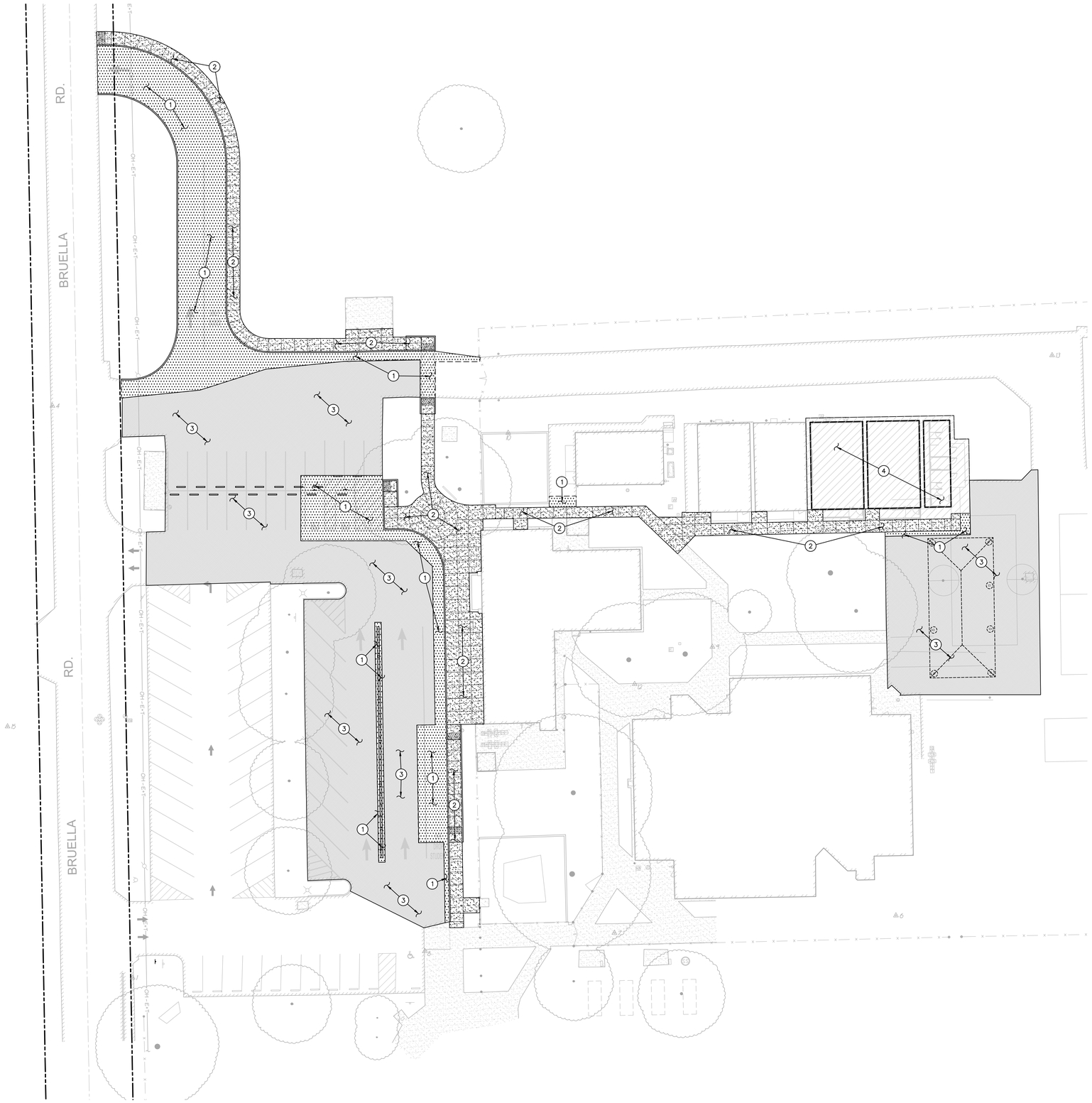

PAVING GENERAL NOTES:

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.

PAVING LEGEND

1. TYPE 1 PAVING
   PLACE 3" AC OVER 12" CLASS II AB ON SUBGRADE COMPACTED PER SPECIFICATIONS. PLACE TWO (2) APPLICATIONS OF SEAL COAT ON NEW PAVING
2. TYPE 2 PAVING
   PLACE 5" PCC WITH #4 REBAR @ 24" O.C.E.W. OVER 12" CLASS II AB ON SUBGRADE COMPACTED PER SPECIFICATIONS.
3. TYPE 3 PAVING
   BLACK OUT EXISTING STRIPING, CRACK FILL AND PROVIDE TWO (2) APPLICATIONS OF SEAL COAT ON EXISTING PAVEMENT.
4. TYPE 4 PAVING
   PLACE 12" OF CL2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION OF SUBGRADE COMPACTED PER SPECIFICATIONS.

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

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LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
PAVING PLAN BID SET

CONSTRUCTION DOCUMENTS

DATE: 10/26/2023 CLIENT PROJ NO: R221551X01

SHEET:
C4.1

FILENAME:I:\23-078\CIVIL\DWG\23-078-C41.DWG

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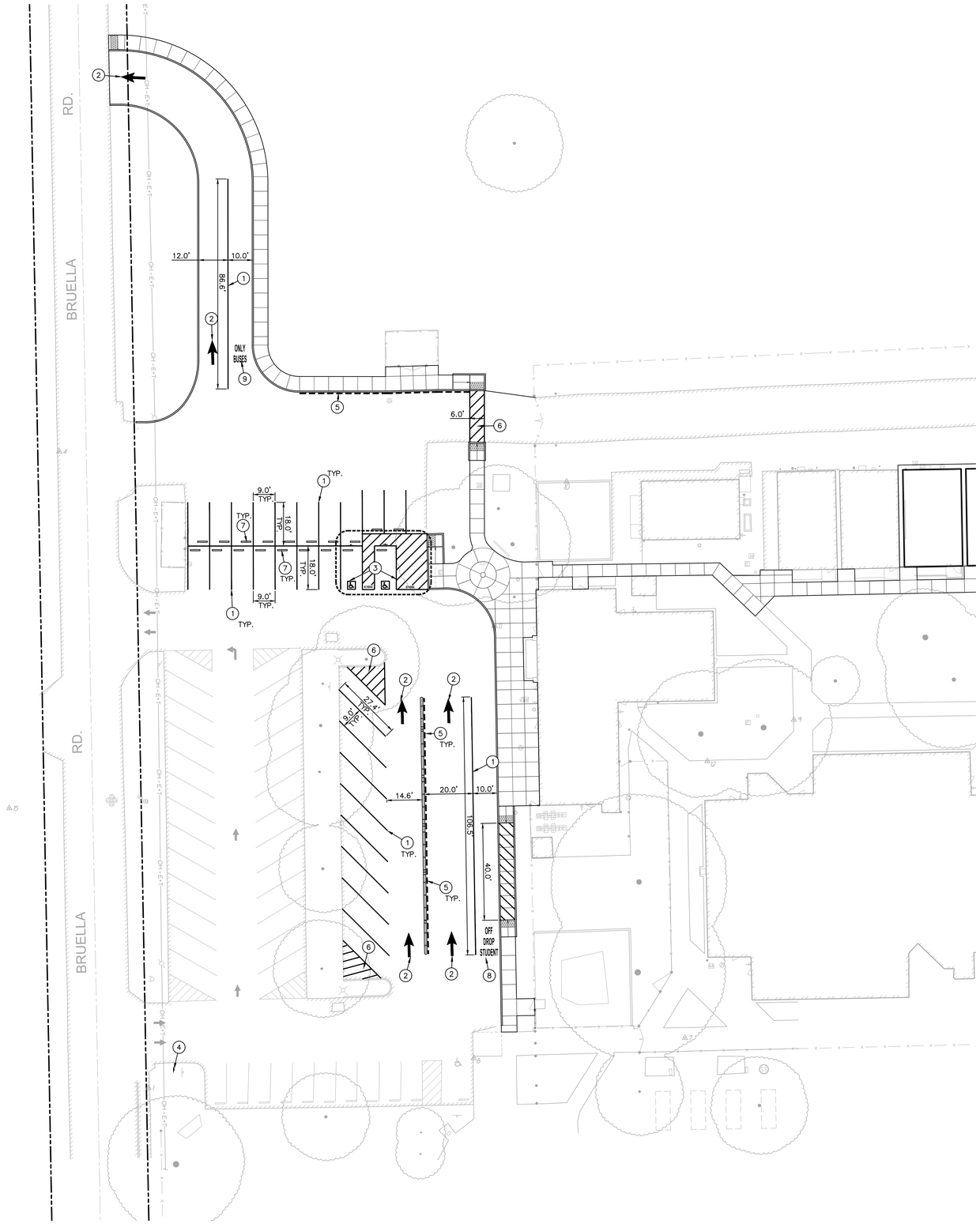
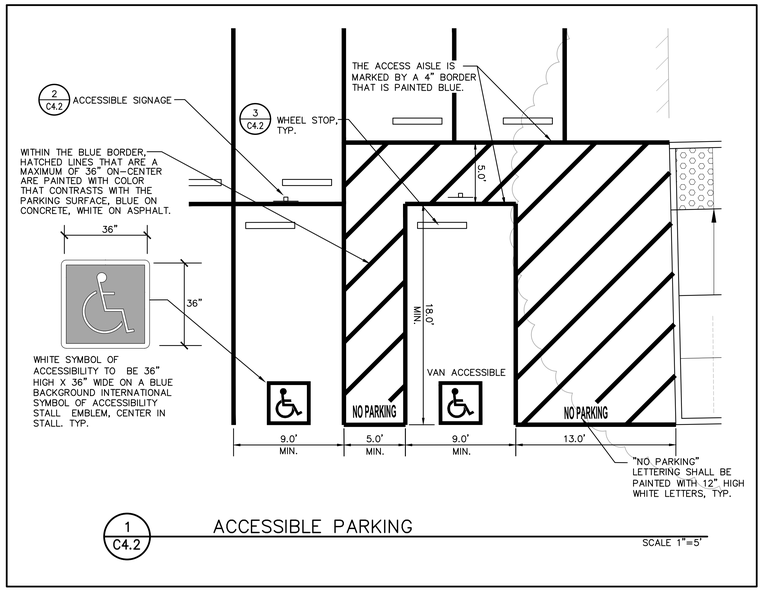
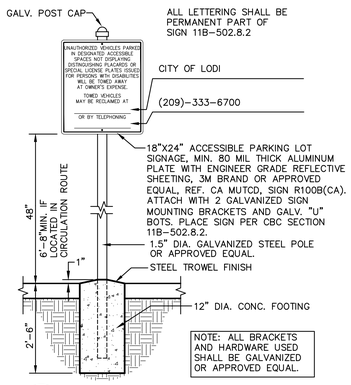


STRIPING AND SIGNAGE NOTES

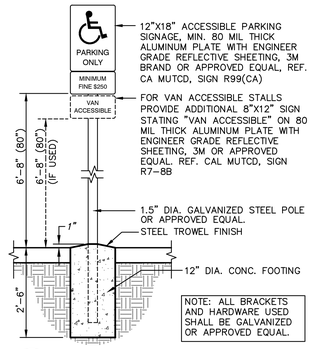
1. PROVIDE 4" WIDE WHITE STRIPE.
2. PROVIDE CALTRANS, FHWA TYPE 1 ARROW.
3. PROVIDE ACCESSIBLE STRIPING/SIGNAGE PER (1/C4.2)
4. PROVIDE "UNAUTHORIZED VEHICLE" TOWING SIGN PER (4/C4.2)
5. PAINT CURB RED WITH 4" HIGH, 3/4" WIDE STROKE SAYING "NO PARKING – FIRE LANE". MARKINGS SHALL BE LOCATED EVERY 25'.
6. PAINT 4" WIDE WHITE EDGE LINES AND 4" WIDE WHITE CROSS HATCHING LINES AT 36" O.C.
7. PLACE CONCRETE WHEEL STOP PER (3/C4.2)
8. PROVIDE 18" HIGH WHITE LETTERS "STUDENT DROP OFF".
9. PROVIDE 18" HIGH WHITE LETTERS "BUSES ONLY".



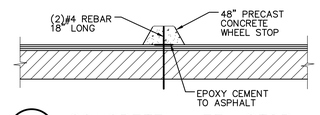
1 / C4.2 ACCESSIBLE PARKING — SCALE 1"=5'



4 / C4.2 TOW-AWAY SIGN (CALIFORNIA ONLY)



2 / C4.2 PARKING SIGNAGE ACCESSIBLE STALLS (CALIFORNIA ONLY) — NO SCALE



3 / C4.2 CONCRETE WHEEL STOP — NO SCALE

GRAPHIC SCALE: 20' 0 10' 20' 40' (IN FEET) 1 inch = 20 feet

NORTH

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

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1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

KEYNOTES

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KEY PLAN:

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
STRIPING PLAN BID SET

CONSTRUCTION DOCUMENTS

DATE: **10/26/2023** | CLIENT PROJ NO: **R221551X01**

SHEET:
C4.2

FILENAME:H:\23-078\CIVIL\DWG\23-078-C42.DWG

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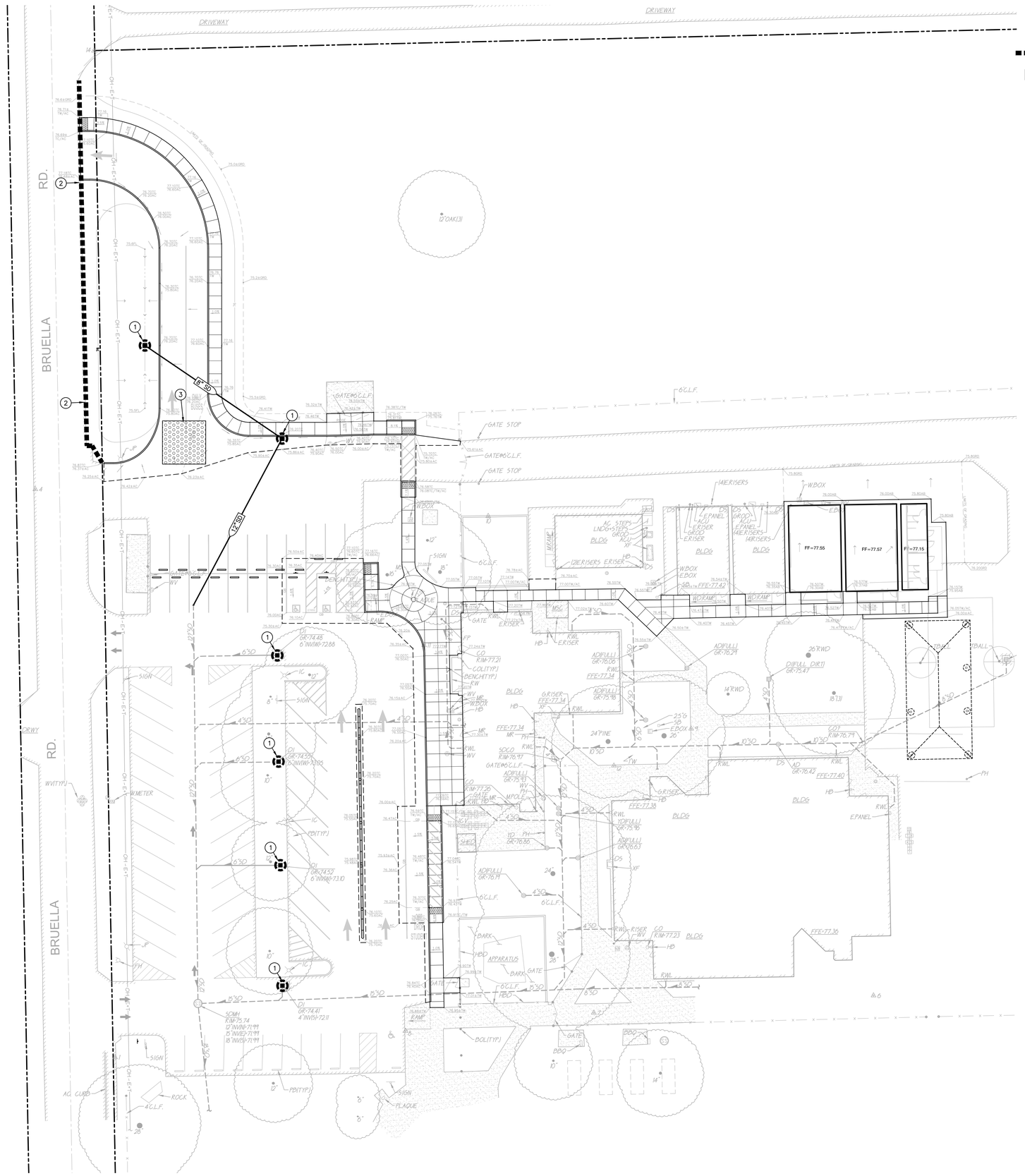
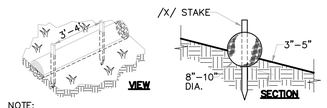


EROSION CONTROL NOTES

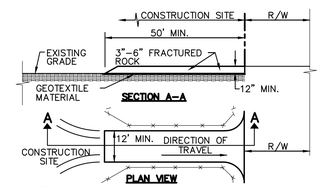
1. CONTRACTOR SHALL PROVIDE STRAW WATTLE BARRIER AND FILTER BAG AT ALL INLETS (NEW AND/OR EXIST.) IN AREAS OF WORK, OR AS REQUIRED BY SPECS. (3 / C5.1)
2. CONTRACTOR SHALL PROVIDE STRAW WATTLES AT PERIMETER OF SITE AND IN AREAS REQUIRED BY SPECS. (1 / C5.1)
3. CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION SITE ACCESS PER DETAIL AT LOCATION REQUIRED FOR CONSTRUCTION ACTIVITIES. (2 / C5.1)
4. CONTRACTOR SHALL MAINTAIN ALL STRAW WATTLES AND OTHER STORM WATER POLLUTION PREVENTION DEVICES THROUGHOUT CONSTRUCTION. REMOVE ALL POLLUTION PREVENTION DEVICES AT THE END OF CONSTRUCTION AS REQUIRED.
5. PRIOR TO PLACEMENT OF LANDSCAPING AND/OR FINISHED GROUND SEEDING, REMOVE TEMPORARY EROSION CONTROL MEASURES.
6. CONTRACTOR SHALL PROVIDE AND MAINTAIN FILTER BAGS AT ALL INLETS.



NOTE:
STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

1 / C5.1 STRAW WATTLES

NO SCALE

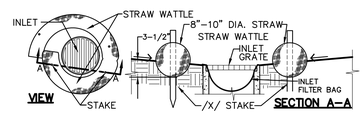


NOTES:

1. STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 3"-6" ANGULAR ROCK MATERIAL CONFORMING TO SECTION 26 OF STATE SPECIFICATIONS PLACED OVER A CLASS 2 NON-WOVEN GEOTEXTILE MATERIAL. ROCK SHALL BE PLACED TO A MINIMUM THICKNESS OF SIX INCHES. THE METHOD OF PLACING, SPREADING AND COMPACTING ROCK SHALL CONFORM TO SECTION 26 OF THE STATE SPECIFICATIONS.
2. LENGTH OF SITE ACCESS SHALL BE A MINIMUM LENGTH OF FIFTY FEET. WIDTH SHALL BE A MINIMUM WIDTH OF TWELVE FEET OR AS NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS.
3. THE SITE ACCESS SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING.

2 / C5.1 STABILIZED CONSTRUCTION SITE ACCESS

NO SCALE



NOTE: STRAW WATTLE INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE IN A TRENCH, 3-1/2" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

3 / C5.1 STRAW WATTLE INLET FILTER

NO SCALE

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

NORTH

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AGENCY APPROVAL:

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KEYNOTES

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KEY PLAN:

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17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
EROSION CONTROL PLAN

BID SET

CONSTRUCTION DOCUMENTS

DATE: 10/26/2023 | CLIENT PROJ NO: R221551X01

SHEET:
C5.1

FILENAME: I:\23-078\CIVIL\DWG\23-078-C51.DWG

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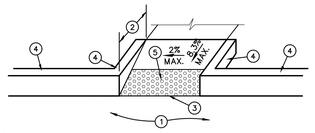
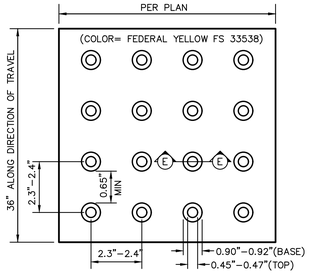


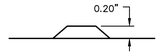
LEGEND

1. PAVEMENT.
2. 8.3% (1:12) MAXIMUM SLOPE, 2.0% MAX CROSS SLOPE.
3. TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-503.
4. 6" WIDE RETAINING CURB, HEIGHT TO BE DETERMINED BY PROJECTED BACK OF WALK GRADE AT EACH END OF CURB RETURN AND BACK OF LANDING SURFACE.
5. PLACE 36" WIDE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE BY ARMOR-TILE OR APPROVED EQUAL. DETECTABLE WARNINGS AT CURB RAMPS SHALL EXTEND 36 INCHES IN THE DIRECTION OF TRAVEL. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN LESS 2 INCHES MAXIMUM ON EACH SIDE, EXCLUDING ANY FLARED SIDES. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE LINE AT THE FACE OF THE CURB MARKING THE TRANSITION BETWEEN THE CURB AND THE GUTTER OR STREET. 8 C6.1

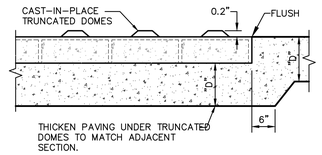
7 C6.1 ACCESSIBLE CURB RAMP #2

NO SCALE



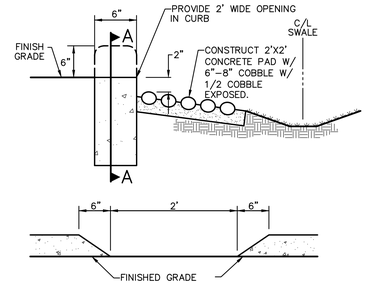


SECTION E-E



8 C6.1 TRUNCATED DOMES

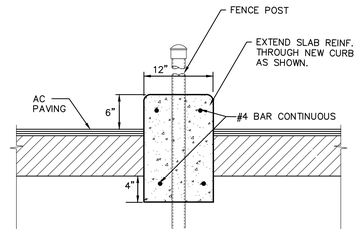
NO SCALE



SECTION A-A

3 C6.1 SLOTTED CURB DETAIL

NO SCALE

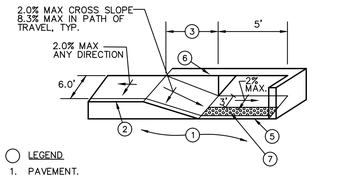


NOTES:

1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. PROVIDE CONTROL JOINTS AT 10 FEET O.C., 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.

4 C6.1 12" CONCRETE CURB

NO SCALE

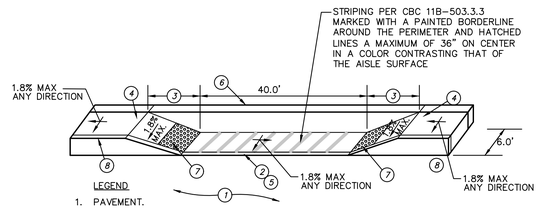


LEGEND

1. PAVEMENT.
2. TOP FACE OF CURB, STANDARD 6" HIGH.
3. 8.3% (1:12) MAXIMUM SLOPE, 2.0% MAX CROSS SLOPE.
4. SCORE MARK, 6" BACK OF CURB.
5. TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-503.
6. 6" WIDE RETAINING CURB, HEIGHT TO BE DETERMINED BY PROJECTED BACK OF WALK GRADE AT EACH END OF CURB RETURN AND BACK OF LANDING SURFACE.
7. PLACE 36" WIDE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE BY ARMOR-TILE OR APPROVED EQUAL. DETECTABLE WARNINGS AT CURB RAMPS SHALL EXTEND 36 INCHES IN THE DIRECTION OF TRAVEL. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN LESS 2 INCHES MAXIMUM ON EACH SIDE, EXCLUDING ANY FLARED SIDES. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE LINE AT THE FACE OF THE CURB MARKING THE TRANSITION BETWEEN THE CURB AND THE GUTTER OR STREET. 8 C6.1

5 C6.1 ACCESSIBLE CURB RAMP #1

NO SCALE

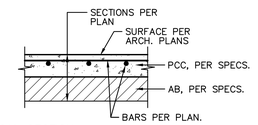


LEGEND

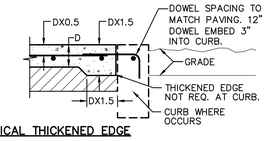
1. PAVEMENT.
2. FLUSH CONCRETE CURB.
3. 8.3% (1:12) MAXIMUM SLOPE, 7' MIN. LENGTH.
4. LANDING SHALL BE 48" MIN. AND SLOPE SHALL NOT EXCEED 1:48 MAX. ALL DIRECTIONS, PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-406.5.3
5. TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE WITH A COUNTER SLOPE NOT EXCEEDING 1:20 MAX FOR 10'.
6. 6" WIDE RETAINING CURB. HEIGHT PER PLAN 2 C6.1
7. PLACE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE, FULL WIDTH OF RAMP LESS 2 INCHES ON EITHER SIDE OF RAMP, 36" IN THE DIRECTION OF TRAVEL, BY ARMOR-TILE OR APPROVED EQUAL. 8 C6.1
8. SCORE MARK, 6" BEHIND BACK OF CURB

6 C6.1 LOADING/UNLOADING ZONE

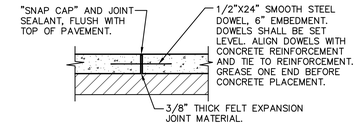
NO SCALE

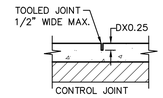


TYPICAL SECTION

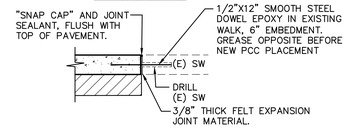


TYPICAL THICKENED EDGE





TYPICAL JOINTS



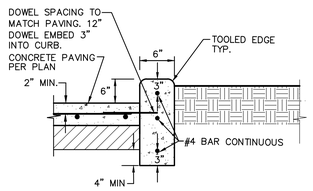
CONNECTION TO (E) CONCRETE

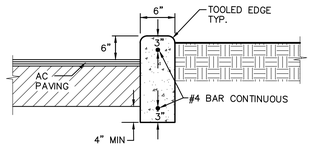
NOTES:

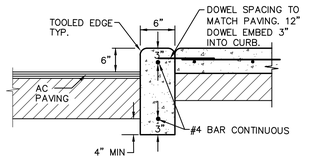
1. PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MAX.
2. PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAX.
3. EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

1 C6.1 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.

2 C6.1 CONCRETE CURB

NO SCALE

AGENCY APPROVAL:

LODI USD

HMC Architects

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

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WARREN CONSULTING ENGINEERS, INC.
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KEYNOTES

NOTES

KEY PLAN:

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
DETAILS AND SECTIONS

BID SET

CONSTRUCTION DOCUMENTS

DATE: 10/26/2023 | CLIENT PROJ NO: R221551X01

SHEET:

C6.1

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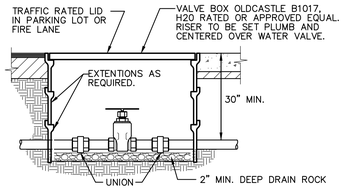
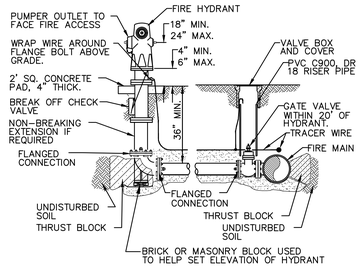
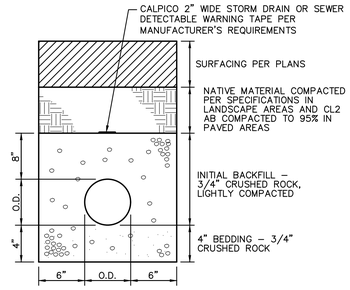


8 C6.2 WATER VALVE
1/2" TO 3" PIPE
NO SCALE

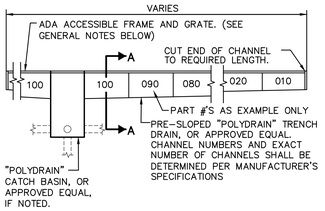


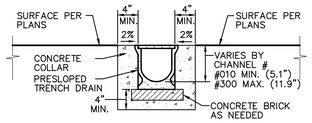
NOTES:
1. AFTER INSTALLATION OF, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, CLEAN AND THOROUGHLY COAT ALL METAL SURFACES WITH A BITUMINOUS OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIAL.
2. ALL PIPES AND FITTINGS SHALL BE WRAPPED AND BEDDED IN SAND.
3. IF HYDRANT IS LOCATED IN CONCRETE PAVING PROVIDE AN INDEPENDENT 4" MIN THICK, 3'X3' CONCRETE PAD SLOPED TO MATCH PAVEMENT GRADES.

9 C6.2 FIRE HYDRANT DETAIL
NO SCALE



5 C6.2 STORM DRAIN AND SEWER TRENCH
NO SCALE

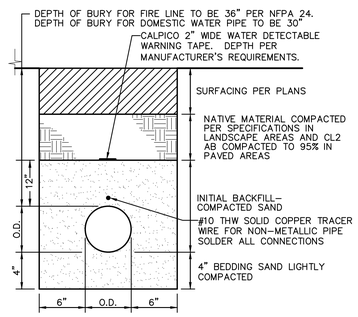




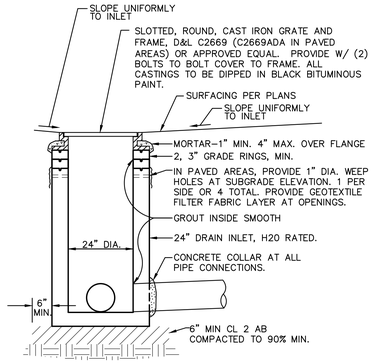
SECTION A–A

GENERAL NOTES:
1. GRATE SHALL ADA ACCESSIBLE, POLYDRAIN MODEL 2410 OR APPROVED EQUAL. IF PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE POLYDRAIN MODEL 2506.
2. IF TRENCH DRAIN IS PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE GALVANIZED STEEL "OVERLAY RAILS" AS SUPPLIED BY POLYDRAIN, OR APPROVED EQUAL.
3. CONTRACTOR SHALL FURNISH AND INSTALL A MODEL 2811B LOCKING DEVICE, OR APPROVED EQUAL, FOR ALL TRENCH DRAIN GRATES.
4. CONTRACTOR SHALL FURNISH AND INSTALL A TRASH BUCKET, MODEL 2900, IN ALL TRENCH DRAIN CATCH BASINS.
5. CONTRACTOR SHALL PURCHASE AND FURNISH THE MAINTINANCE/OPERATIONS DEPARTMENT OF THE SCHOOL WITH 2 MODEL 2231 TRENCH DRAIN SHOVEL HEADS, WITH STANDARD WOOD, OR COMPOSITE HANDLES.
6. ALL MITERED JOINTS SHALL BE SEALED WITH POLYDRAIN "POLYSEAL" CAULKING OR APPROVED EQUAL.

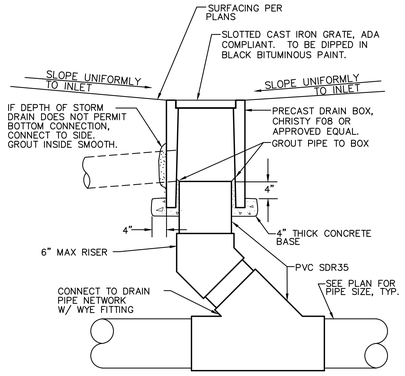
6 C6.2 TRENCH DRAIN DETAIL
NO SCALE



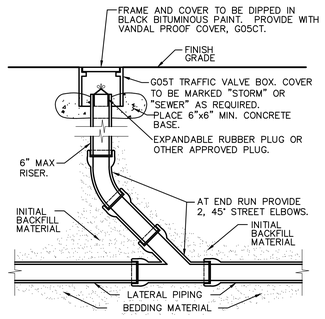
7 C6.2 WATER TRENCH
NO SCALE



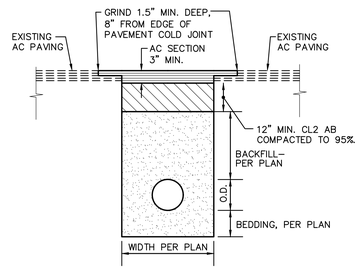
1 C6.2 DROP INLET
NO SCALE



2 C6.2 AREA DRAIN
NO SCALE



3 C6.2 CLEANOUT
NO SCALE



4 C6.2 ASPHALT PATCH AT TRENCH
NO SCALE

AGENCY APPROVAL:

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

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KEYNOTES

NOTES

KEY PLAN:

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
DETAILS AND SECTIONS BID SET

CONSTRUCTION DOCUMENTS

DATE: **10/26/2023** CLIENT PROJ NO: **R221551X01**

SHEET:
C6.2

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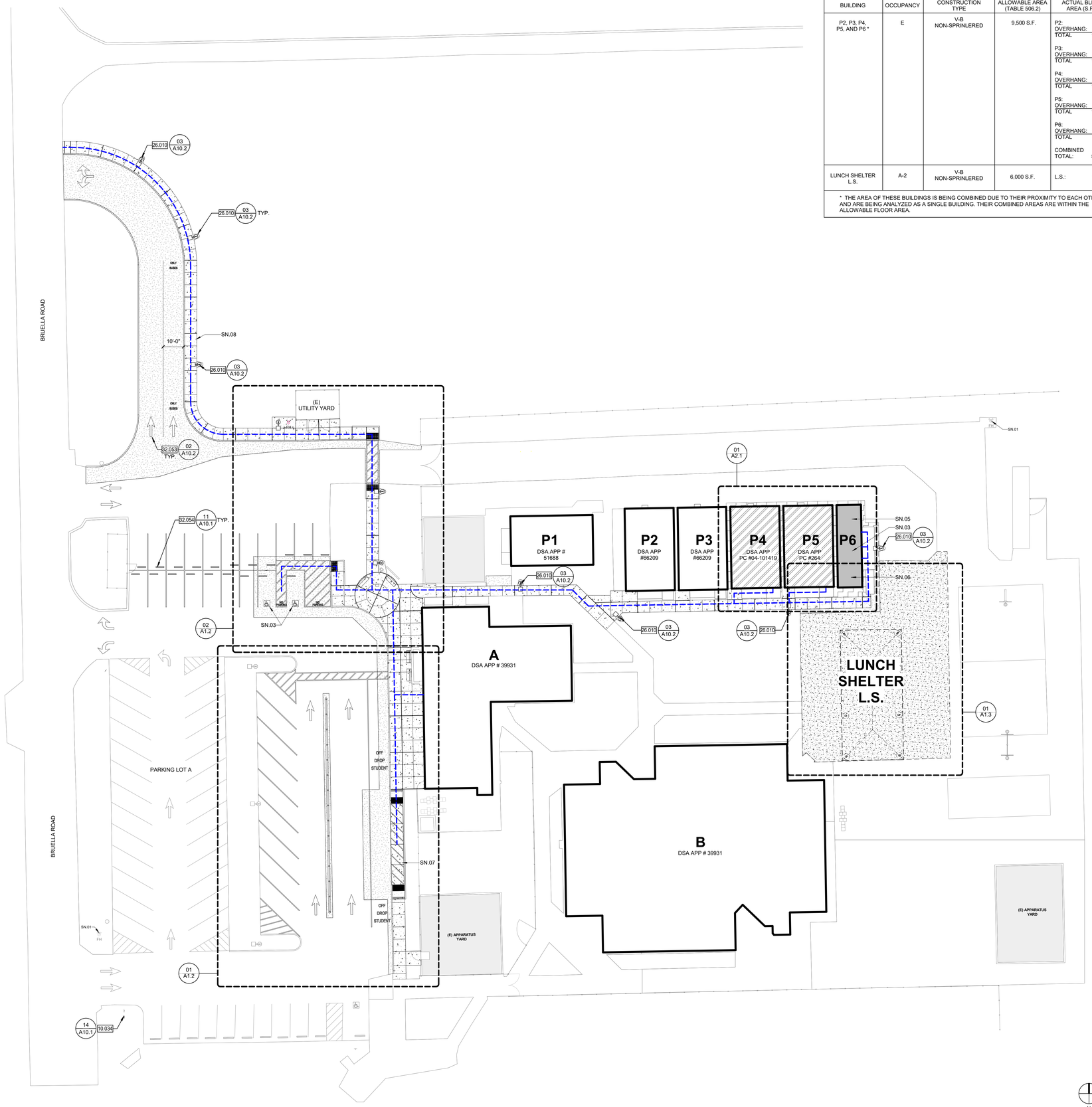

BUILDING DATA AND ALLOWABLE AREA ANALYSIS

BUILDING	OCCUPANCY	CONSTRUCTION TYPE	ALLOWABLE AREA (TABLE 506.2)	ACTUAL BLDG. AREA (S.F.)
P2, P3, P4, P5, AND P6 *	E	V-B NON-SPRINLERED	9,500 S.F.	P2: 960 OVERHANG: 168 TOTAL 1,128 P3: 960 OVERHANG: 168 TOTAL 1,128 P4: 960 OVERHANG: 168 TOTAL 1,128 P5: 960 OVERHANG: 168 TOTAL 1,128 P6: 480 OVERHANG: 84 TOTAL 564 COMBINED TOTAL: 5,076
LUNCH SHELTER L.S.	A-2	V-B NON-SPRINLERED	6,000 S.F.	L.S.: 1,920

* THE AREA OF THESE BUILDINGS IS BEING COMBINED DUE TO THEIR PROXIMITY TO EACH OTHER AND ARE BEING ANALYZED AS A SINGLE BUILDING. THEIR COMBINED AREAS ARE WITHIN THE ALLOWABLE FLOOR AREA.

ACCESSIBLE PATH OF TRAVEL

PATH OF TRAVEL (P.O.T.) AS INDICATED, IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE EXCEPT LEVEL CHAGES THAT DO NOT EXCEED 1/4" VERTICAL. THE PATH OF TRAVEL IS AT LEAST 48" WIDE WITH SLIP RESISTANT SURFACE, STABLE, FIRM AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. THE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTION TO 80" A.F.F. MINIMUM AND WALL MOUNTED OBJECTS WITH THE BOTTOM EDGE BETWEEN 27" AND 80" A.F.F. MINIMUM AND WALL MOUNTED OBJECTS WITH THE BOTTOM EDGE BETWEEN 27" AND 80" A.F.F. SHALL PROTRUDE NO MORE THAN 4" INTO THE PEDESTRIAN CIRCULATION AREA. ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 1133B.

EXISTING PATH OF TRAVEL (POT): ARCHITECT STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR **PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS**. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT

1) HAVE BEEN IDENTIFIED AND
2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT TO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

BUILDING DESIGNATIONS

UNIT A - ADMINISTRATION / KINDERGARTEN / MULTI-PURPOSE
UNIT B - CLASSROOM BUILDING
UNIT P1 - PORTABLE CLASSROOM BUILDING
UNIT P2 - PORTABLE CLASSROOM BUILDING
UNIT P3 - PORTABLE CLASSROOM BUILDING
UNIT P4 - PORTABLE CLASSROOM BUILDING
UNIT P5 - PORTABLE CLASSROOM BUILDING
UNIT P6 - PORTABLE TOILET BUILDING
UNIT LS - LUNCH SHELTER

PARKING CALCULATIONS

PARKING LOT A - TOTAL PARKING STALL COUNT: 68 STALLS

ACCESSIBLE PARKING STALLS PER TABLE 11B-208.2:
REQ'D ACCESSIBLE STALLS: 3 (51-75 TOTAL STALLS)
REQ'D VAN ACCESSIBLE: 1 (1-6 ACCESSIBLE STALLS)
ACCESSIBLE STALLS PROVIDED: 1 STANDARD & 1 VAN

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

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R221551X01

LICENSED ARCHITECT JEFFREY ALAN GRAD C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
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LEGEND

- ACCESSIBLE PATH OF TRAVEL
- PROPERTY LINE
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- X — EXISTING BUILDING
- X — NEW BUILDING
- X — RELOCATED PORTABLE BUILDING
- EXPANSION JOINT / CONCRETE WALK PAVING / CONTROL JOINT
- DECOMPOSED GRANITE
- ASPHALT SEALANT
- TRUNCATED DOME

KEYNOTES

10.034	SIGNAGE: PARKING LOT ENTRANCE
26.010	POLE MOUNTED LIGHT
32.053	PAVEMENT MARKING
32.054	PRECAST CONCRETE BUMPER

SHEET NOTES

SN.01 (E) FIRE HYDRANT
SN.02 NOT USED
SN.03 ACCESSIBLE PARKING STALLS PER THIS APPLICATION
SN.04 ACCESSIBLE STAFF TOILET ROOM PER THIS APPLICATION
SN.05 ACCESSIBLE BOYS' TOILET ROOM PER THIS APPLICATION
SN.06 ACCESSIBLE GIRLS' TOILET ROOM PER THIS APPLICATION
SN.07 ACCESSIBLE STUDENT DROP OFF PER THIS APPLICATION
SN.08 BUS DROP OFF

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS NEEDED DURING CONSTRUCTION TO SECURE AREA OF WOK.
2. CONTRACTOR SHALL REPLACE, RECONSTRUCT, AND REPAIR ALL EXISTING WORK THAT IS IMPACTED, DAMAGED, OR DESTROYED AS A RESULT OF ANY CONTRACTOR WORK INCLUDING, BUT NOT LIMITED TO, HARDSCAPING, SIDEWALKS, IRRIGATION SYSTEMS, LANDSCAPING, LAWNS, STRUCTURES, AND UTILITIES.
3. CONTRACTOR TO FIELD VERIFY LOCATION OF (E) UTILITIES AND NOTIFY THE DISTRICT OF ANY CONFLICTS WITH PROPOSED WORK TO BE INSTALLED
4. GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS WITH PROPER EXIT HARDWARE AND KICK PLATES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
CODE ANALYSIS AND SITE PLAN

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/2023** CLIENT PROJ NO: **R221551X01**

SHEET:

A1.1

CODE ANALYSIS AND OVERALL SITE PLAN **01** 1" = 20'-0"

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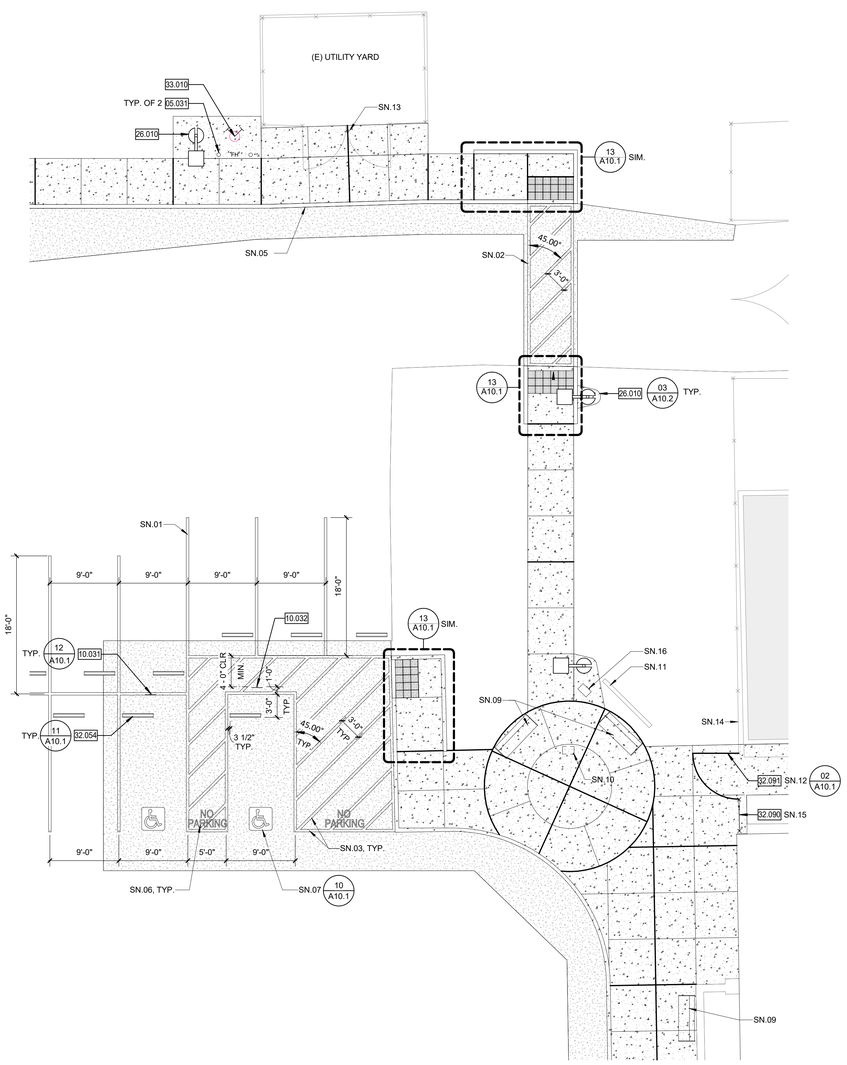
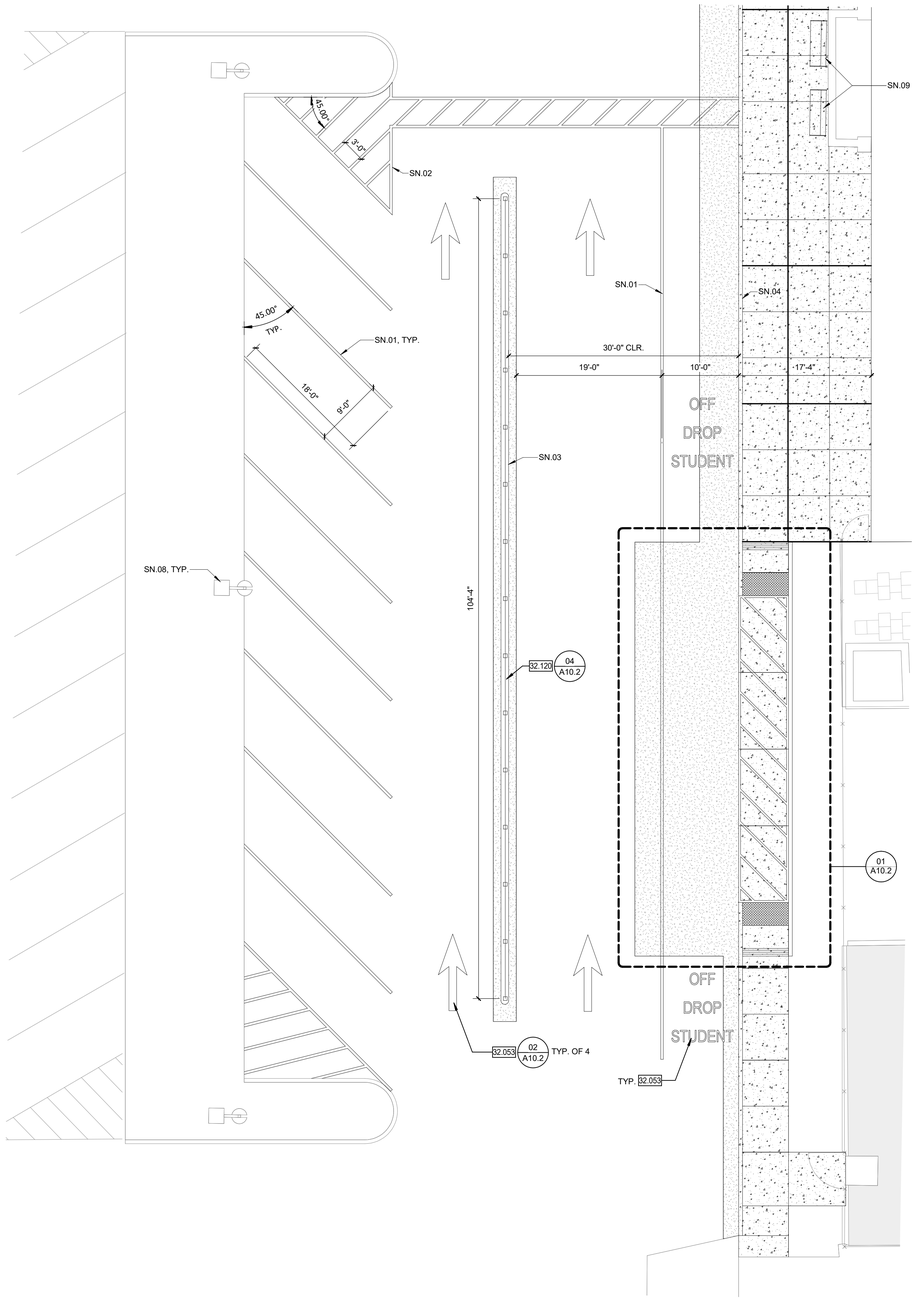


ENLARGED SITE PLAN AT ACCESSIBLE PARKING 02

1/8" = 1'-0"



ENLARGED SITE PLAN AT STUDENT DROP OFF 01

1/8" = 1'-0"

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LICENSED ARCHITECT JEFFREY ALAN GRAD C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

LEGEND

- PROPERTY LINE
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- EXPANSION JOINT
- CONCRETE WALK PAVING
- CONTROL JOINT
- ASPHALT PAVING
- TRUNCATED DOMES

KEYNOTES

05.031	PIPE BOLLARD
10.031	SIGNAGE: DISABLED ACCESSIBLE PARKING STALL
10.032	SIGNAGE: VAN ACCESSIBLE PARKING STALL
26.010	POLE MOUNTED LIGHT
32.053	PAVEMENT MARKING
32.054	PRECAST CONCRETE BUMPER
32.090	CHAIN LINK FENCE
32.091	CHAIN LINK GATE: SWING
32.120	4' HIGH ORNAMENTAL METAL FENCE
33.010	FIRE HYDRANT

NOTES

1. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING DURING CONSTRUCTION TO SECURE ENTIRE AREA OF WORK.
2. CONTRACTOR SHALL COMPLY WITH 2019 CALIFORNIA FIRE CODE CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, THROUGHOUT THE ENTIRE PROEJCT.
3. FENCE GRAPHICS AS SHOWN IN THE LEGEND ARE SCHEMATIC. ACTUAL FENCE POST LOCATIONS ARE TO BE COORDICATED BU THE CONTRACTOR
4. PARKING STALLS SHALL BE STRPED USING WHITE PAINT (U.O.N.) STRIPES SHALL BE 4" WIDE.
5. PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE, UNLESS OTHERWISE INDICATED

SHEET NOTES

SN.01 4" WIDE WHITE PAINTED LINE
SN.02 4" WIDE WHITE PAINTED EDGE LINES WITH 4" WIDE WHITE PAINTED CROSS HATCHING LINES AT 36" O.C.
SN.03 4" WIDE BLUE PAINTED BORDER LINES AT ACCESS AISLE WITH 4" WIDE WHITE PAINTED CROSS HATCHING LINES AT 36" O.C.
SN.04 PAINT CURB FACE AND 6" AT TOP OF CURB YELLOW AT PASSENGER DROP OFF
SN.05 PAINT CURB FACE AND 6" AT TOP OF CURB RED. IN WHITE, PAINT THE WORDS "NO PARKING - FIRE LANE" EVERY 25'-0"
SN.06 CENTERED WITHIN THE ACCESS AISLE, PAINT IN WHITE THE WORDS "NO PARKING" IN 12" HIGH LETTERS MIN
SN.07 PAINTED DISABLED ACCESSIBLE SYMBOL
SN.08 POLE MOUNTED LIGHT TO REMAIN
SN.09 SALVAGE (E) BENCHES AND REINSTALL
SN.10 REMOVE (E) DEDICATION PLAQUE AND SALVAGE FOR REINSTALLATION
SN.11 (E) MARQUEE TO REMAIN
SN.12 3' WIDE x 6' HIGH ACCESSIBLE PEDESTRIAN GATE WITH PANIC HARDWARE
SN.13 INSTALL CANE BOLT SLEEVE IN NEW CONCRETE
SN.14 (E) 6' HIGH CHAIN LINK FENCE TO REMAIN
SN.15 INSTALL NEW 6' HIGH CHAIN LINK TO MATCH EXISTING
SN.16 REINSTALL SALVAGED DEDICATION PLAQUE

FACILITY:

VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:

VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:

ENLARGED SITE PLANS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/2023 | CLIENT PROJ NO: R221551X01

SHEET:

A1.2

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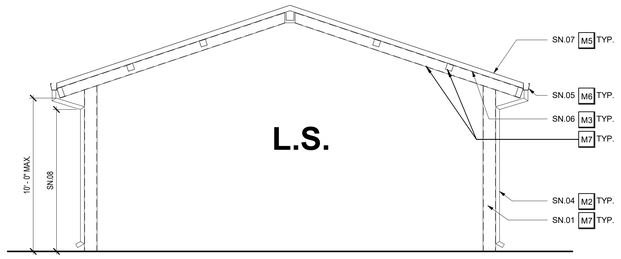
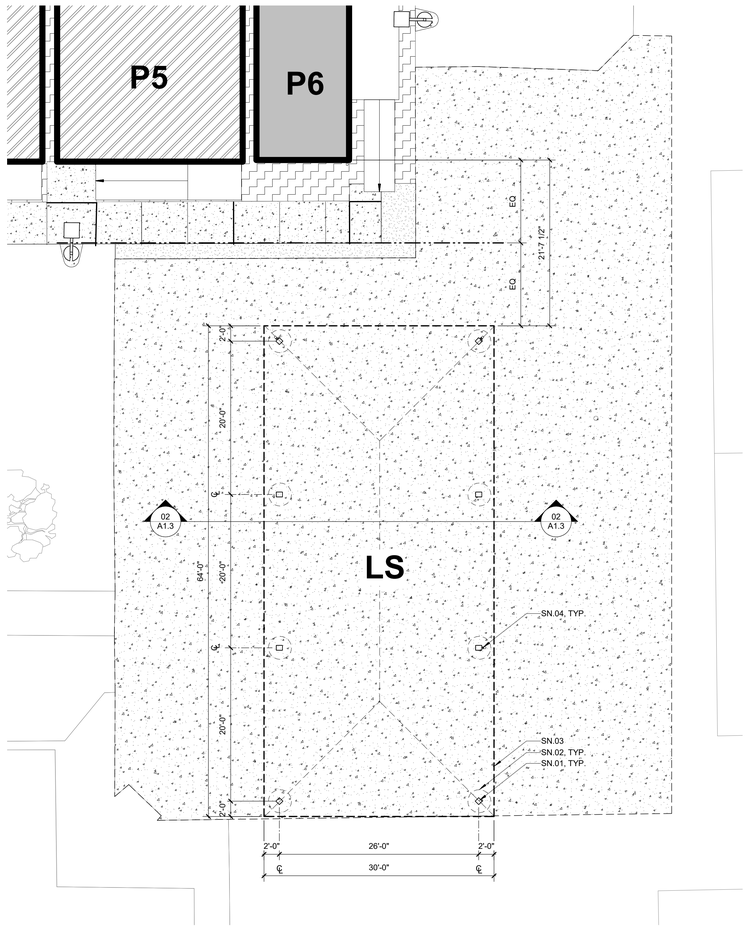


LUNCH SHELTER SECTION **02** 1/4" = 1'-0"



ENLARGED SITE PLAN AT LUNCH SHELTER **01** 1/8" = 1'-0"

EXTERIOR COLOR SCHEDULE

	MATERIAL	COLOR
W1	WOOD (SIDING)	PAINT COLOR 1 (1)(3)
W2	WOOD (TRIM)	PAINT COLOR 2 (1)(4)
W3	WOOD (FASCIA, TRIM)	PAINT COLOR 3 (1)(5)
M1	METAL (DOWNSPOUTS)	METAL FINISH COLOR 1 (1)(3)
M2	METAL (DOORS)	METAL FINISH COLOR 2 (1)(4)
M3	METAL (GUTTERS, FLASHING)	METAL FINISH COLOR 3 (1)(5)
M4	METAL (HANDRAILS)	METAL FINISH COLOR 4 (1)
M5	METAL (STANDING SEAM)	PREFINISHED COLOR 1 (1)
M6	METAL (GUTTERS, FLASHING)	PREFINISHED COLOR 2 (1)(5)
M7	METAL (BEAMS, COLUMNS)	PREFINISHED COLOR 3 (1)(4)

(1) CUSTOM COLORS TO BE SUBMITTED PER SPECIFICATIONS.

(2) CLEAN, PREP AND PAINT ALL SURFACES NOT PREFINISHED.

(3) MATCH WOOD "PAINT COLOR 1" WITH COLOR DESIRED IN "METAL FINISH COLOR 1"

(4) MATCH WOOD "PAINT COLOR 2" WITH COLOR DESIRED IN "METAL FINISH COLOR 2" AND "PREFINISHED COLOR 4"

(5) MATCH WOOD "PAINT COLOR 3" WITH COLOR DESIRED IN "METAL FINISH COLOR 3" AND "PREFINISHED COLOR 2"

AGENCY APPROVAL:

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SACRAMENTO, CA, 95816
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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

LEGEND

- ACCESSIBLE PATH OF TRAVEL
- PROPERTY LINE
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- X — EXISTING BUILDING
- X — NEW BUILDING
- X — RELOCATED PORTABLE BUILDING
- EXPANSION JOINT / CONCRETE WALK PAVING / CONTROL JOINT
- DECOMPOSED GRANITE
- ASPHALT SEALANT
- TRUNCATED DOME

SHEET NOTES

SN.01 HSS COLUMN
SN.02 DRILLED PIER FOOTING, SHOWN DASHED
SN.03 ROOF OVERHANG ABOVE
SN.04 3" DIAMETER SCHEDULE 40 STEEL DOWNSPOUT, PAINTED
SN.05 PREFINISHED GUTTER AND FLASHING
SN.06 PAINT DECK UNDERSIDE
SN.07 PREFINISHED STANDING SEAM ROOF
SN.08 HOLD TIGHT TO UNDERSIDE OF FRAMING: MAINTAIN 9'-0" CLEARENCE MIN.

NOTES

1. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING DURING CONSTRUCTION TO SECURE ENTIRE AREA OF WORK.
2. CONTRACTOR SHALL COMPLY WITH 2019 CALIFORNIA FIRE CODE CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, THROUGHOUT THE ENTIRE PROEJCT.
3. FENCE GRAPHICS AS SHOWN IN THE LEGEND ARE SCHEMATIC. ACTUAL FENCE POST LOCATIONS ARE TO BE COORDICATED BU THE CONTRACTOR
4. PARKING STALLS SHALL BE STRPED USING WHITE PAINT (U.O.N.) STRIPES SHALL BE 4" WIDE.
5. PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE, UNLESS OTHERWISE INDICATED
6. REFER TO SPEC SECTION 32 3113, 2.3 & 3.1 FOR FENCE POST AND FOOTING SIZE

FACILITY:

VICTOR ELEMENTARY SCHOOL

17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:

VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:

ENLARGED SITE PLANS AND SECTION

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/2023** CLIENT PROJ NO: **R221551X01**

SHEET:

A1.3

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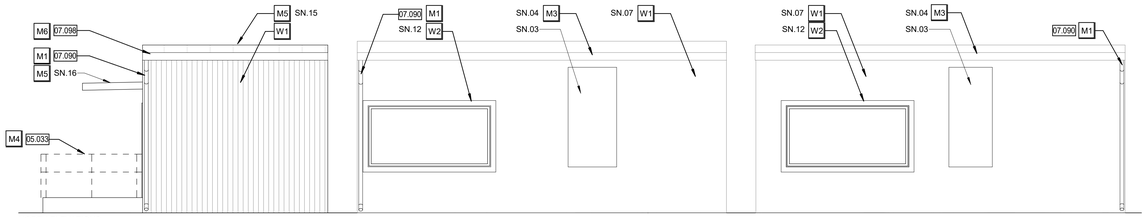
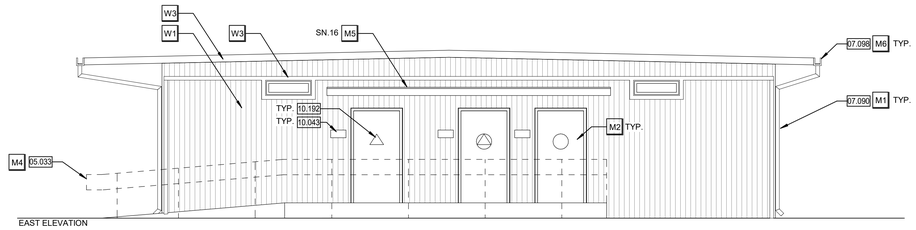
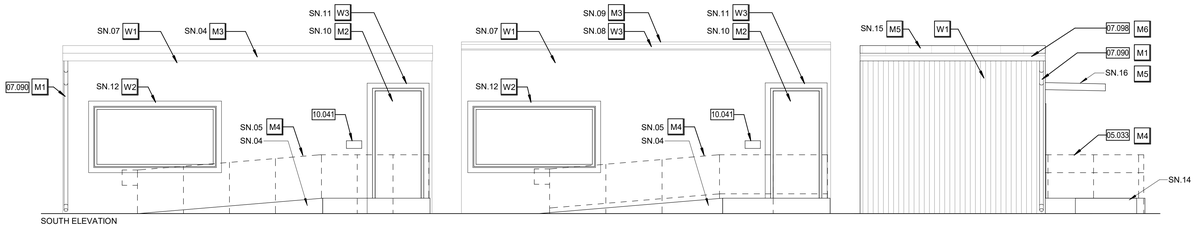


NORTH ELEVATIONS



EAST ELEVATION

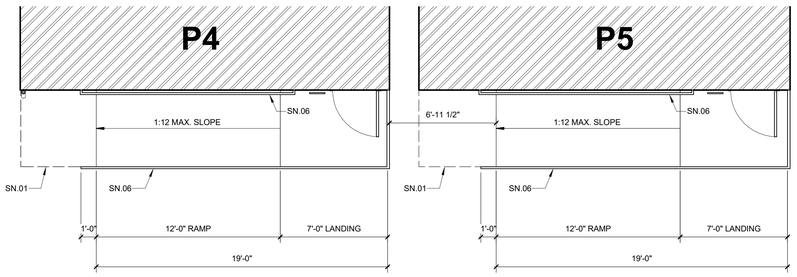


SOUTH ELEVATION

WEST ELEVATION

EXTERIOR ELEVATIONS - UNITS P4, P5, AND P6 — 05

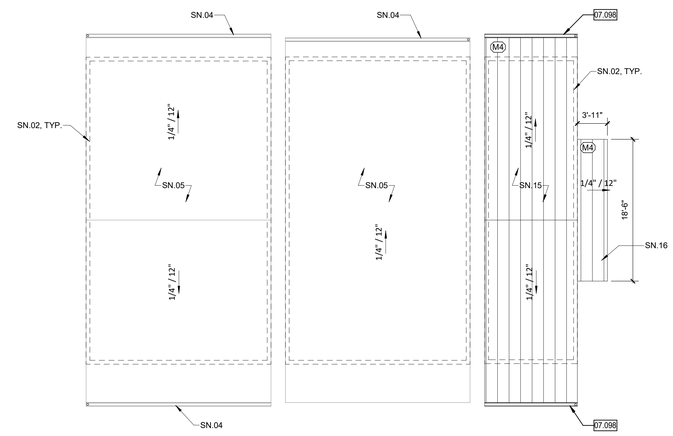
1/4" = 1'-0"



NOTES:
1. REMOVE (E) RAMPS ON (E) PORTABLE CLASSROOM BUILDINGS AND REBUILDING ACCORDING TO PC #02-67340 (A / S6R)

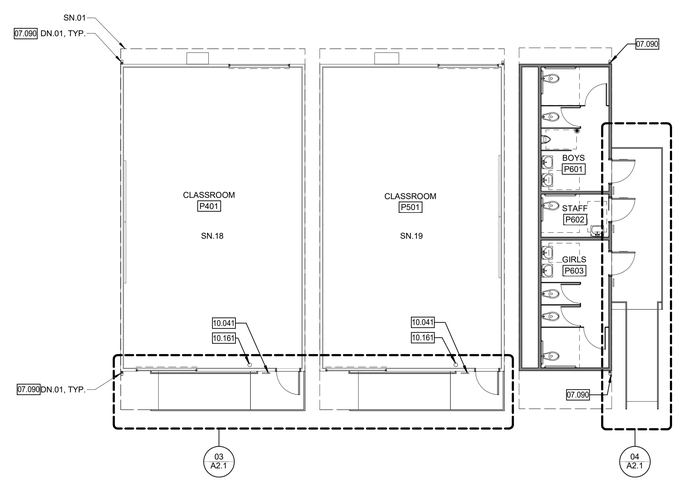
UNIT P4, P5 - ENLARGED RAMP PLAN — 03

1/4" = 1'-0"



UNIT P4, P5, P6 - OVERALL ROOF PLAN — 02

1/8" = 1'-0"



UNIT P4, P5, P6 - OVERALL FLOOR PLAN — 01

1/8" = 1'-0"

EXTERIOR COLOR SCHEDULE

	MATERIAL	COLOR
W1	WOOD (SIDING)	PAINT COLOR 1 (1)(3)
W2	WOOD (TRIM)	PAINT COLOR 2 (1)(4)
W3	WOOD (FASCIA, TRIM)	PAINT COLOR 3 (1)(5)
M1	METAL (DOWNSPOUTS)	METAL FINISH COLOR 1 (1)(3)
M2	METAL (DOORS)	METAL FINISH COLOR 2 (1)(4)
M3	METAL (GUTTERS, FLASHING)	METAL FINISH COLOR 3 (1)(5)
M4	METAL (HANDRAILS)	METAL FINISH COLOR 4 (1)
M5	METAL (STANDING SEAM)	PREFINISHED COLOR 1 (1)
M6	METAL (GUTTERS, FLASHING)	PREFINISHED COLOR 2 (1)(5)
M7	METAL (BEAMS, COLUMNS)	PREFINISHED COLOR 3 (1)(4)

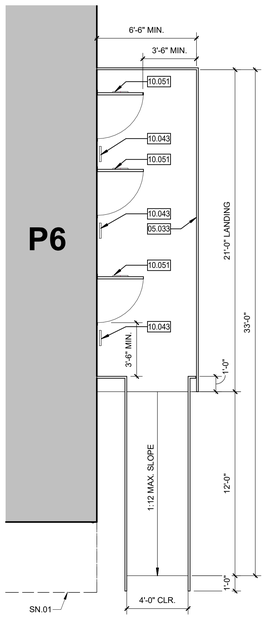
(1) CUSTOM COLORS TO BE SUBMITTED PER SPECIFICATIONS.

(2) CLEAN, PREP AND PAINT ALL SURFACES NOT PREFINISHED.

(3) MATCH WOOD "PAINT COLOR 1" WITH COLOR DESIRED IN "METAL FINISH COLOR 1"

(4) MATCH WOOD "PAINT COLOR 2" WITH COLOR DESIRED IN "METAL FINISH COLOR 2" AND "PREFINISHED COLOR 4"

(5) MATCH WOOD "PAINT COLOR 3" WITH COLOR DESIRED IN "METAL FINISH COLOR 3" AND "PREFINISHED COLOR 2"



NOTE:
1. FOR ADDITIONAL RAMP DETAILS SEE PC #02-121411 DWGS (1 / S5R)

UNIT P6 - ENLARGED RAMP PLAN — 04

1/4" = 1'-0"

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LEGEND

CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

NEW BUILDING

RELOCATED PORTABLE BUILDING

STANDING SEAM METAL ROOF

WOOD SIDING

KEYNOTES

05.033	METAL HANDRAIL
07.090	GALVANIZED STEEL: DOWNSPOUT
07.098	GALVANIZED SHEET METAL: GUTTER
10.041	SIGNAGE: ROOM IDENTIFICATION
10.043	SIGNAGE: TOILET ROOM IDENTIFICATION
10.051	SIGNAGE: TOILET ROOM DOOR SYMBOL
10.161	FIRE EXTINGUISHER
10.192	TOILET ROOM DOOR SIGNAGE

DEMO NOTES

DN.01 REMOVE (E) DOWNSPOUT

SHEET NOTES

SN.01 LINE OF ROOF ABOVE
SN.02 LINE OF WALL BELOW
SN.03 (E) HVAC TO REMAIN
SN.04 (E) GUTTER TO REMAIN, PAINT
SN.05 (E) PREFINISHED STANDING SEAM ROOF
SN.06 REUSE AND REFINISH (E) HANDRAIL
SN.07 (E) SIDING, PAINT
SN.08 (E) FASCIA, PAINT
SN.09 (E) FLASHING, PAINT
SN.10 (E) DOOR TO REMAIN, PAINT
SN.11 (E) DOOR TRIM, PAINT
SN.12 (E) WINDOW TRIM, PAINT
SN.13 PAINT GUTTER TO MATCH WALL BEHIND
SN.14 REMOVE (E) RAMP AND REBUILD PER PC #04-101419
SN.15 PREFINISHED STANDING SEAM ROOF
SN.16 HANDRAIL
SN.17 CANOPY BY PC MANUFACTURER
SN.18 BUILDING TO BE RELOCATED. PLACE ON NEW WOOD FOUNDATION PER PC #04-101419
SN.19 BUILDING TO BE RELOCATED. PLACE ON NEW WOOD FOUNDATION PER PC #264

GENERAL NOTES

1. PAINT ALL SOFFITS W1, TYP.
2. TYPICAL NOTES ON ONE ELEVATION APPLY TO ALL ELEVATIONS
3. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, REFER TO SHEET A10.3
4. PAINT THE RELOCATED AND NEW BUILDINGS IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO WALLS, DOORS, TRIM, GUTTERS, ETC.

FACILITY:

VICTOR ELEMENTARY SCHOOL

17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:

VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:

PLANS AND EXTERIOR ELEVATIONS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/2023 | CLIENT PROJ NO: R221551X01

SHEET:

A2.1

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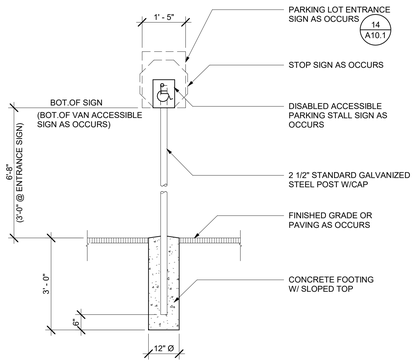
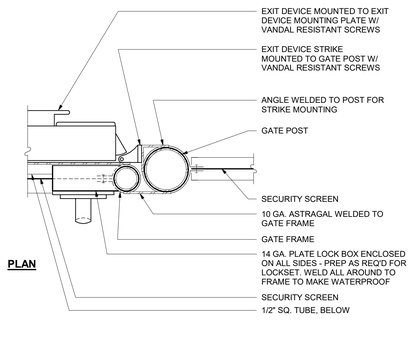
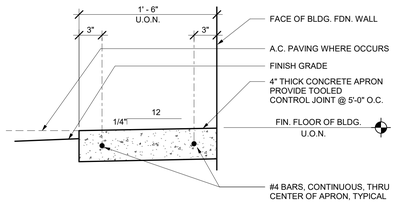


METAL SIGNS 12
1/2" = 1'-0"

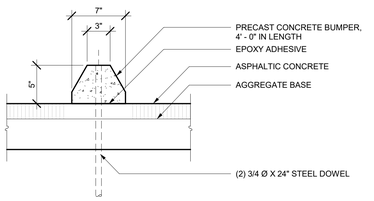
EXIT DEVICE AND HARDWARE
EXIT DEVICE AND HARDWARE IS VON DUPRIN CD-PA-AX-98-NL-990



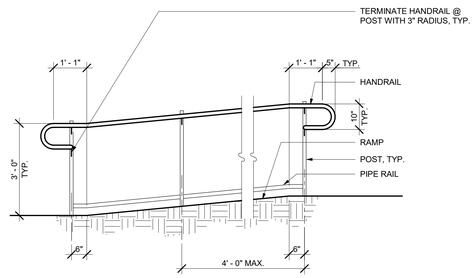
GATE LOCK BOX 08
3" = 1'-0"



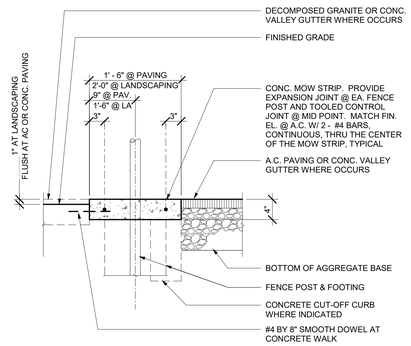
APRON 04
1 1/2" = 1'-0"



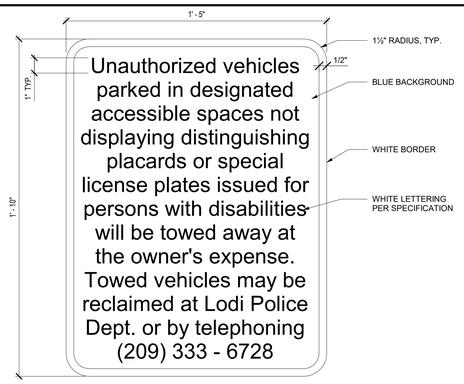
PRECAST CONCRETE BUMPER 11
1 1/2" = 1'-0"



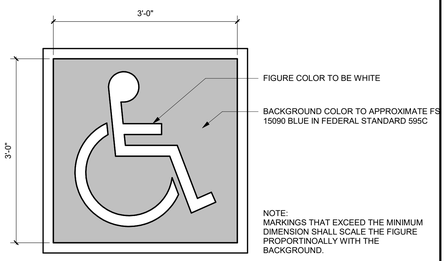
RAMP ELEVATION 07
1/2" = 1'-0"



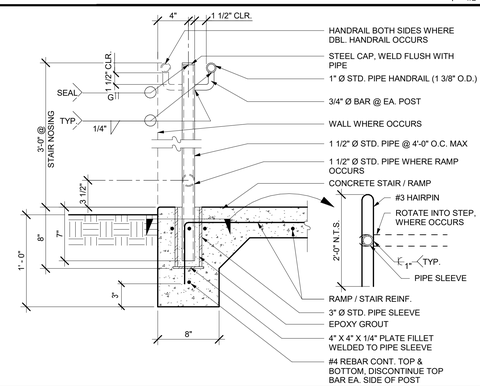
MOW STRIP 03
1" = 1'-0"



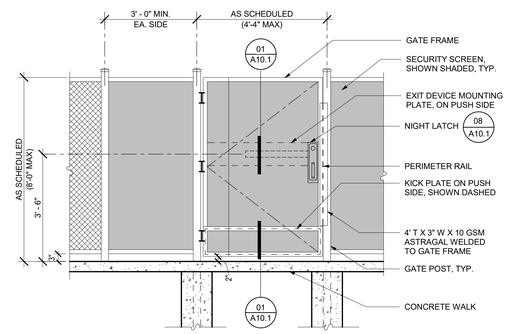
PARKING LOT ENTRANCE SIGN 14
3" = 1'-0"



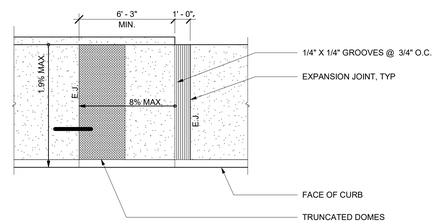
INTERNATIONAL SYMBOL OF ACCESSIBILITY 10
1" = 1'-0"



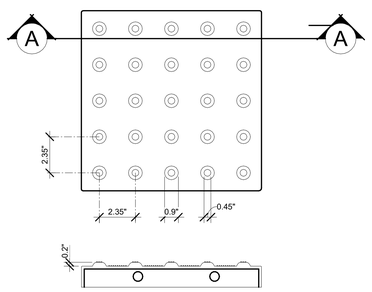
HANDRAIL DETAIL 06
1 1/2" = 1'-0"



CHAIN LINK FENCE - EXIT GATE 02
1/2" = 1'-0"

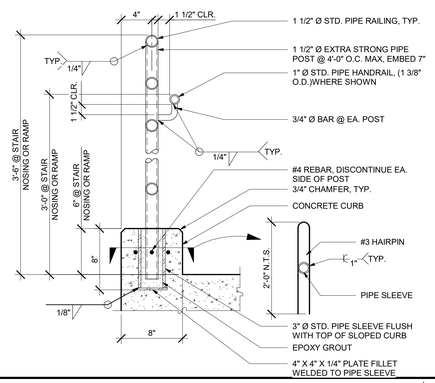


CURB RAMP 13
1/4" = 1'-0"

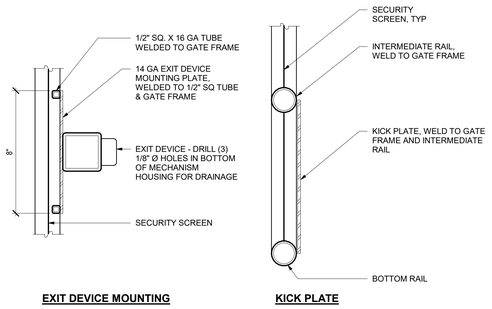


TYPICAL SECTION A-A

TRUNCATED DOMES 09
3" = 1'-0"



GUARDRAIL / HANDRAIL 05
1 1/2" = 1'-0"



MOUNTING PLATE / KICK PLATE 01
3" = 1'-0"

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LICENSED ARCHITECT JEFFREY ALAN GRAD C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

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17670 BRUELLA ROAD
LODI, CA 95240

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SHEET NAME:
SITE AND GATE DETAILS

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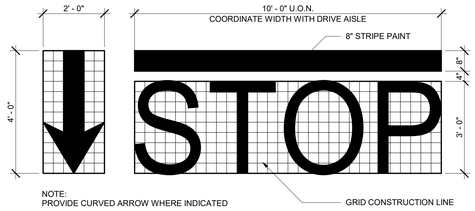
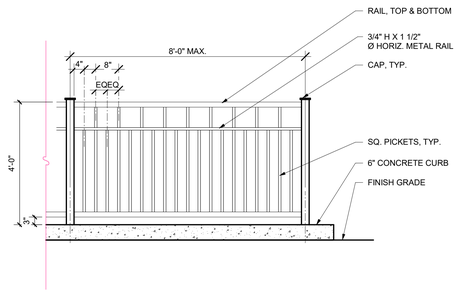
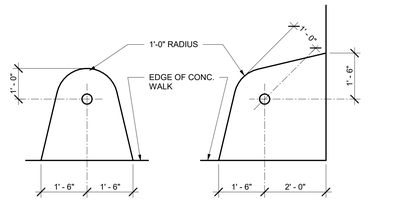


DIRECTIONAL ARROW & STOP MARKING **02**
1/2" = 1'-0"

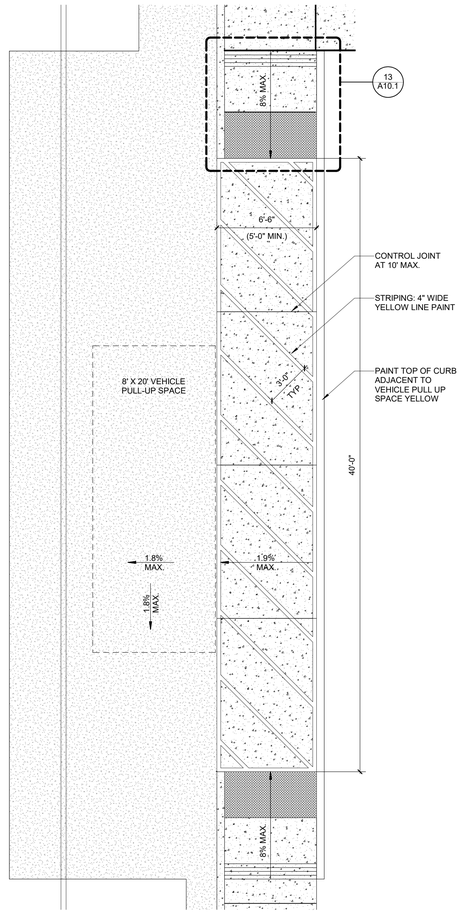


ORNAMENTAL METAL FENCE **04**
1/2" = 1'-0"



SIDE OF WALK CORNER OF WALK

APRON @ LIGHT POLE **03**
1/2" = 1'-0"



NOTES:
1. YELLOW PAINT TO MATCH TRUNCATED DOMES

ACCESSIBLE DROP OFF **01**
1/4" = 1'-0"

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R221551X01

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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
SITE AND GATE DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/2023** CLIENT PROJ NO: **R221551X01**

SHEET:

A10.2

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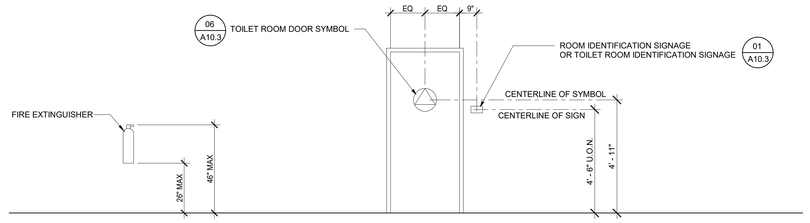
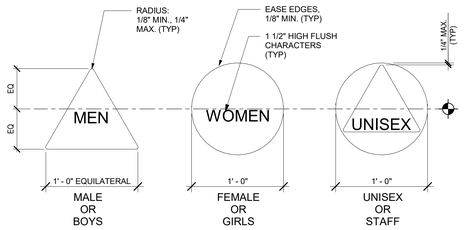


FIRE EXTINGUISHER

SIGNAGE MOUNTING

TYPICAL MOUNTING HEIGHTS AND DETAILS 03

3/8" = 1'-0"

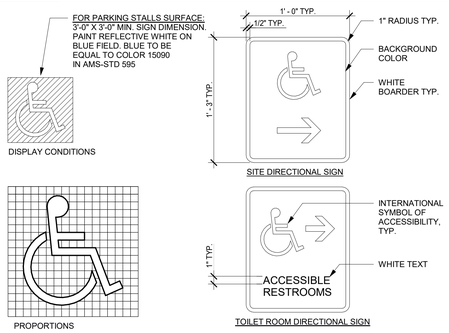


NOTE:

1. TEXT ON DOOR SYMBOL TO BE AS INDICATED ON DRAWINGS

TOILET ROOM DOOR SYMBOLS 06

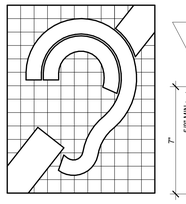
1 1/2" = 1'-0"

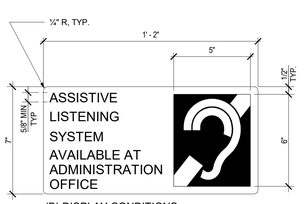


PROVIDE DIRECTIONAL SIGN WHERE SHOWN.

SYMBOL OF ACCESSIBILITY 02

NTS





(A) SYMBOL PROPORTIONS

1:1

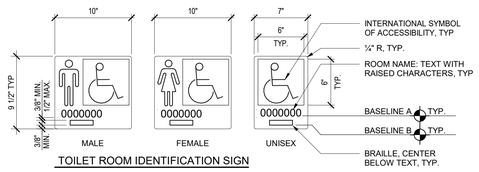
(B) DISPLAY CONDITIONS

3" = 1'-0"

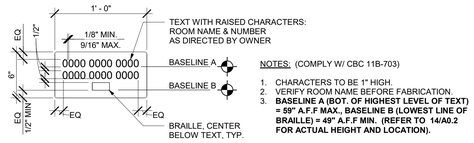
INTERNATIONAL SYMBOL OF ACCESS FOR HEARING IMPAIRED

ASSISTIVE LISTENING SYSTEM 05

NTS



TOILET ROOM IDENTIFICATION SIGN



ROOM IDENTIFICATION SIGN

NOTES: (COMPLY W/ CBC 11B-703)

1. CHARACTERS TO BE 1" HIGH.
2. VERIFY ROOM NAME BEFORE FABRICATION.
3. **BASELINE A (BOT. OF HIGHEST LEVEL OF TEXT) = 59" A.F.F MAX., BASELINE B (LOWEST LINE OF BRAILLE) = 49" A.F.F MIN. (REFER TO 14/A0.2 FOR ACTUAL HEIGHT AND LOCATION).**

IDENTIFICATION SIGNS 01

1 1/2" = 1'-0"

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A10.3

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ELECTRICAL SYMBOL LIST

SYMBOL/ ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
N/A	NOT APPLICABLE
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER
	Connections / Equipment
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
J	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
J	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
T	TRANSFORMER
M	DOORBELL - NUTONE #LA11WH +7'-6"
	DOORBELL PUSH BUTTON
	ENCLOSED CIRCUIT BREAKER

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	Fire Alarm
FACP	FIRE ALARM CONTROL PANEL
RXP	SUSPENDED REMOTE POWER SUPPLY
	PHOTOELECTRIC SMOKE DETECTOR
	COMBINATION SMOKE ALARM AND CARBON MONOXIDE DETECTOR, SINGLE STATION
FS	SPRINKLER FLOW SWITCH
PIV	SPRINKLER POST INDICATOR VALVE
TS	SPRINKLER TAMPER SWITCH
M	F.A ADDRESSABLE MONITOR MODULE
C	FIRE ALARM CONTROL RELAY
15cd	STROBE WITH CANDELA RATING
15cd	HORN/STROBE WITH CANDELA RATING
F	HORN
WP	EXTERIOR 120V SPRINKLER HORN/STROBE
	General
	NEW WORK
XX–X LOCATION	EQUIPMENT IDENTIFICATION
1	KEYED NOTE
Lighting	
	CEILING FAN
	EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE
	SURFACE OR PENDANT MOUNTED LUMINAIRE
	SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
	PENDENT
	WALL MOUNTED LUMINAIRE
	BOLLARD
	Miscellaneous
#10 B–27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	CURRENT TRANSFORMER
M	DIGITAL TYPE METER WITH VOLTMETER, AMMETER, KW METER, KVA METER, KVAR METER, AND %THD METER
	EQUIPMENT CONNECTION ITEM. REFER TO SCHEDULE
	FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
	FLUSH WALL MOUNTED BRANCH PANEL
	GROUND ROD
	GROUNDING POINT
	LANDING LUG
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
M	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
UT	UTILITY TRANSFORMER PAD/VAULT
	WALL MOUNTING BRACKET
	WATER PIPE GROUND CONNECTION

ELECTRICAL SYMBOL LIST cont'd

SYMBOL/ ABBREVIATION	DESCRIPTION
	Raceways
	CONDUIT CONCEALED IN WALL OR CEILING SPACE
	CONDUIT ROUTED BELOW FLOOR / GRADE
	CATV ROUTED BELOW FLOOR / GRADE
	TEL/DATA ROUTED BELOW FLOOR / GRADE
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	CONDUIT/WIRING CONTINUATION
	CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
	FLEXIBLE CONDUIT
	TELEPHONE BACKBOARD
	Switches and Receptacles
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
	ABOVE COUNTER DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
	SINGLE RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
	EQUIPMENT ELECTRICAL CONNECTION
	SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH
D	MANUAL DIMMER WITH ON/OFF OVERRIDE
DS	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR WITH DIMMER AND MANUAL ON/OFF OVERRIDE
	DUPLEX RECEPTACLE, FLUSH FLOOR
OS	CEILING MOUNTED OCCUPANCY SENSOR (SELF CONTAINED)
DS	CEILING MOUNTED DAYLIGHTING SENSOR

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. 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 THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION 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 #) # 0043-13.

SHEET INDEX

E0.1	ELECTRICAL COVER SHEET
E0.2	ELECTRICAL ONE-LINE DIAGRAM
E0.3	ELECTRICAL DETAILS
E1.0	POWER SITE PLAN
E2.0	LIGHTING SITE PLAN
E3.0	SIGNAL SITE PLAN
E3.1	SIGNAL FLOOR PLAN
E4.0	FIRE ALARM SITE PLAN
E4.1	FIRE ALARM FLOOR PLAN
E5.0	TITLE 24 - LTO FORMS

AGENCY APPROVAL:

LODI USD

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ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER NATHAN A. HEARN No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA

10/20/2023

Date Signed: 10/20/23

capital engineering

RANCHO CORDOVA, CALIFORNIA

NH - JSG 230908

PM - DESIGN TEAM PROJECT NO.

FACILITY:

17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:

VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:

ELECTRICAL COVER SHEET

BID SET

PROGRESS

DATE: **10/26/2023** CLIENT PROJ NO: **R221551X01**

SHEET:

E0.1

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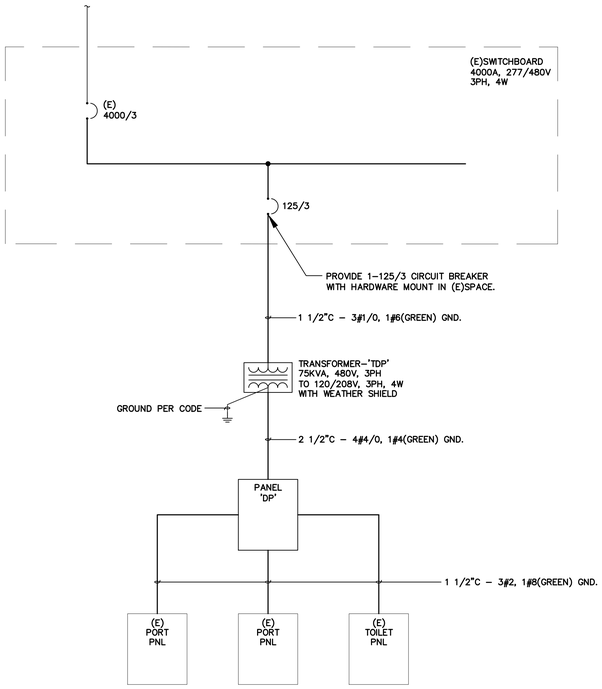

PARTIAL ONE LINE DIAGRAM

1
E0.2

SCALE : NO SCALE

PANELBOARD SCHEDULE - DP

DESIGNATION	FEEDER NO.	POLES & AMPS	LOAD, VA LTG.	LOAD, VA RECPT.	LOAD, VA OTHER	C K	P H	C K	LOAD, VA LTG.	LOAD, VA RECPT.	LOAD, VA OTHER	POLES & AMPS	FEEDER NO.	DESIGNATION
BLDG P4	1	2/100			6500	1	A	2	450			2/20	2	POLE LIGHTS
					6500	3	B	4						
BLDG P5	1	2/100			6500	5	C	6			50	1/20	3	TIME SWITCH
					6500	7	A	8						SPARE
BLDG P6	1	2/100			3900	9	B	10						SPARE
					3900	11	C	12						SPARE
SECTION SUB-TOTALS			0	0	33800				450	0	50			SECTION SUB-TOTALS

CATEGORY	CONN. LOAD KVA	CONN. LOAD AMPS	DESIGN LOAD DIV.	DESIGN LOAD KVA	DESIGN LOAD AMPS
LIGHTING:	0.5	1.3	1.25	0.6	1.6
RECEPTACLE:	0.0	0.0	1.00	0.0	0.0
MOTORS:	0.0	0.0	1.00	0.0	0.0
SPECIAL LOADS:	33.9	94.1	1.25	42.3	117.6
ELECTRIC HEATING:	0.0	0.0	1.00	0.0	0.0
WATER HEATING:	0.0	0.0	1.00	0.0	0.0
TOTAL:	34.3	95.3		42.9	119.2

MOUNTING:		SURFACE NEMA 3-R
VOLTS:		120/208
PHASE/WIRE:		3/4
MAINS SIZE:		225 AMPS
MAINS TYPE:		MCB
BUSS TYPE:		COPPER
BRKR TYPE:		BOLT-IN
A.I.C. (RMS):		10,000
A Phase	13.5	Connected Kva
B Phase	10.4	Connected Kva
C Phase	10.5	Connected Kva

REMARKS:

FEEDER NO.:
1 = 3 #2, #8G - 1 1/2"C
2 = 2 #8, #8G - 1"C
3 = 2 #12, #12G - 3/4"C

AGENCY APPROVAL:

LODI USD

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RANCHO CORDOVA, CALIFORNIA

NH - JSG 230908
PM - DESIGN TEAM PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER NATHAN A. HEARN No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA
10/20/2023
Date Signed: 10/20/23

FACILITY:

17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ELECTRICAL ONE-LINE DIAGRAM

BID SET

PROGRESS

DATE: 10/26/2023 CLIENT PROJ NO: R221551X01

SHEET:

E0.2

PLEASE RECYCLE

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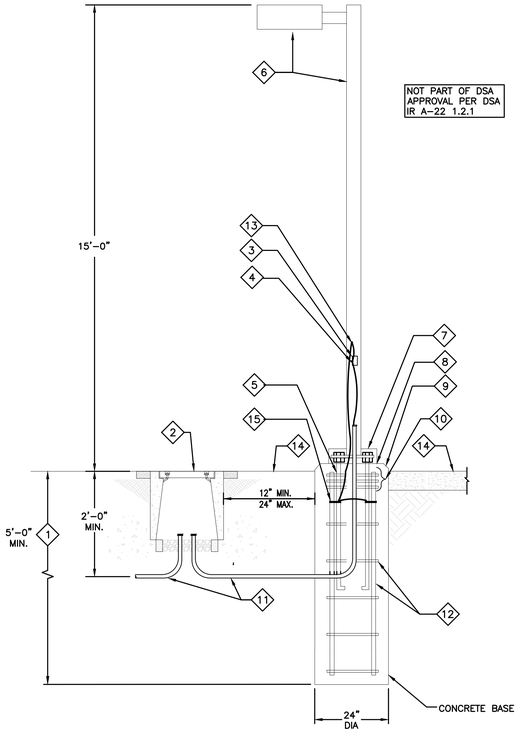


NOT PART OF DSA APPROVAL PER DSA IR A-22 1.2.1

KEYED NOTES:

1. PROVIDE 60" MINIMUM FOR 12FT LIGHT POLE. COORDINATE CONCRETE BASE SIZE WITH STRUCTURAL ENGINEER.
2. UNDERGROUND PULL BOX REQUIRED ADJACENT TO POLE BASE WHERE INDICATED ON DRAWINGS. SEE DETAIL "4/E511". SET TOP OF PULLBOX FLUSH WITH FINISHED GRADE.
3. GASKETED HANDHOLE 3FT AFF.
4. CONNECT GROUND WIRE TO GROUNDING LUG OF POLE AT HANDHOLE.
5. 4 – 3/4" DIA. WITH MINIMUM 17" EMBEDMENT ANCHOR BOLTS WITH 4" HOOKS.
6. LIGHT FIXTURE AND/OR POLE PER PLAN AND SPECIFICATION. FIXTURE WIRE THROUGH POLE TO LUMINAIRE TO BE RATED FOR 90C.
7. BASECOVER, SECURE TO POLE AND/OR BASE.
8. PROVIDE 1 1/2" MINIMUM GROUT AROUND THE BASE AFTER PLUMB. SLOPE TO GRADE FOR DRAINAGE.
9. PROVIDE CONCRETE BASE WITH 1/2" CHAMFER. CONCRETE FILL AND SACK FINISH ALL CONCRETE SURFACE IMPERFECTIONS, CAVITIES AND VOIDS ABOVE FINISHED GRADE .
10. PROVIDE (3) #3 REBAR TIES, REINFORCE STEEL HOOPS 2" ON CENTERED WITHIN TOP 5"AREA.
11. CONDUIT PER PLAN.
12. PROVIDE (6) #4 REINFORCE STEEL RODS AND #3 REINFORCE STEEL HOOPS 12" ON CENTER. SIZE PER MANUFACTURER'S STANDARDS.
13. SPLICE GROUND WIRE AND EXTEND TO GROUND CLAMP AT ANCHOR BOLT.
14. FINISHED GRADE OR PAVING PER ARCHITECTURAL DRAWINGS.
15. UL LISTED GROUND CLAMP SUITABEL FOR CONCRETE ENCASEMENT OR DIRECT BURIAL. INSTALL CLAMPS ON ALL ANCHOR BOLTS, TYPICAL.

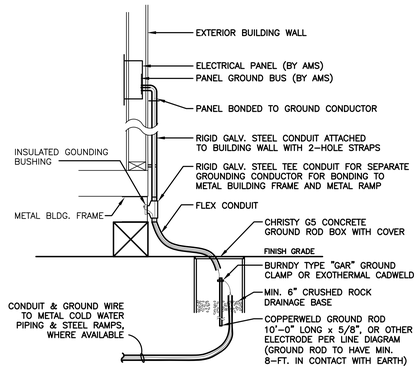
POLE MOUNTING DETAIL

SCALE : NO SCALE

7 / E0.3

RELOCATABLE BUILDING GROUNDING NOTES:

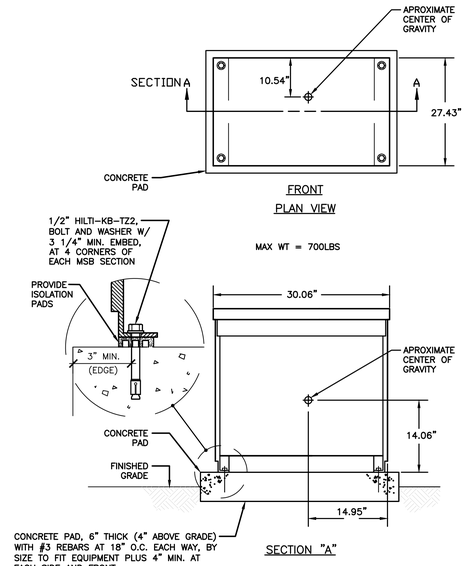
1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.94, AND AS INDICATED ON ONE LINE DIAGRAM, WHICHEVER IS LARGER.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME, (CEC 250.81). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10-FT OR MORE, AS WELL AS STEEL RAMPS, IF AVAILABLE (CEC 250.81 & 250.83).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER WITH A #4 BONDING JUMPER. BOLTING ONLY IS NOT ACCEPTABLE BONDING.
4. WHERE SURFACE MATERIAL TO BE GROUNDED IS PAINTED, BOLTED CONNECTION IS NOT AN ACCEPTABLE BOND. CONTRACTOR SHALL PROVIDE BONDING VIA CADWELD PROCESS AS REQUIRED.
5. GROUND RESISTANCE SHALL BE TESTED BY AN INDEPENDENT TESTING COMPANY WITH A MEGGER UNIT OR AN OTHERWISE ACCEPTABLE METHOD BY THE DSA INSPECTOR OF RECORD. IF RESISTANCE TO GROUND IS TESTED TO EXCEED 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED BY MINIMUM 6-FEET AND RETEST AS REQUIRED.
6. ALL WORK AS SHOWN ON THE GROUNDING DETAIL AND AS STATED HEREIN, WHETHER SHOWN OR NOT ON ELECTRICAL DRAWINGS, SHALL BE DONE BY THE SITE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACT.



PORTABLE GROUNDING DETAIL

SCALE : NO SCALE

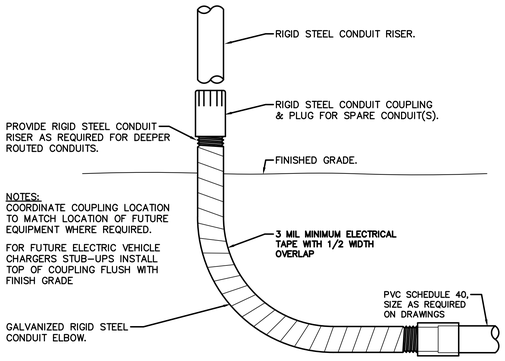
4 / E0.3



TRANSFORMER MOUNTING DETAIL

SCALE : NO SCALE

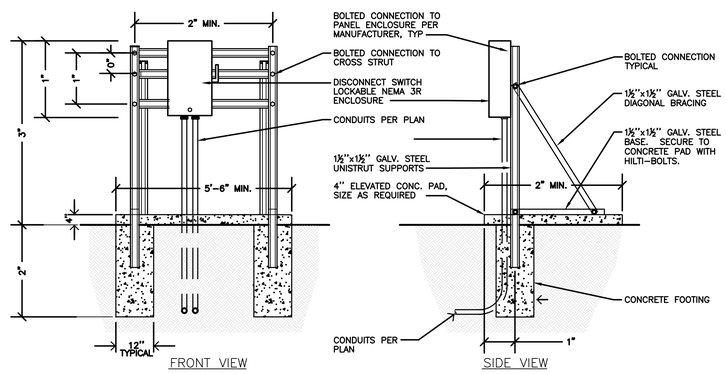
1 / E0.3



CONDUIT STUB-UP DETAIL

SCALE : NO SCALE

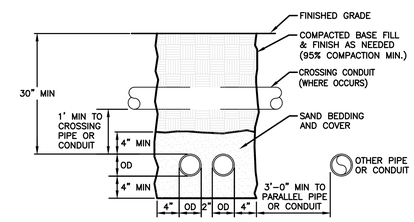
8 / E0.3



PANEL 'DP' MOUNTING DETAIL

SCALE : NO SCALE

5 / E0.3

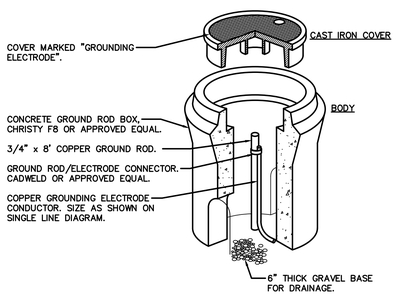


NOTE:
TRENCHING LOCATED IN PAVED AREAS – ALL EARTHWORK AND REPAIR SHALL BE IN ACCORDANCE WITH AGENCY THAT HAS JURISDICTION.

TYPICAL TRENCH DETAIL

SCALE : NO SCALE

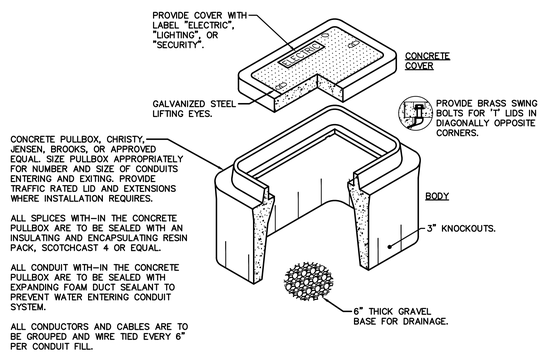
2 / E0.3



TYPICAL CONCRETE GROUND ROD DETAIL

SCALE : NO SCALE

9 / E0.3

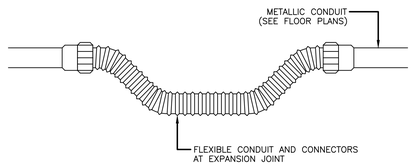


TYPICAL CONCRETE PULLBOX DETAIL

SCALE : NO SCALE

6 / E0.3

NOTE:
PROVIDE 6" MOVEMENT CAPACITY IN ANY HORIZONTAL DIRECTION.



SEISMIC JOINT CONDUIT DETAIL

SCALE : NO SCALE

3 / E0.3

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10/20/2023

Date Signed: 10/20/23

NH - JSG 230908
PM - DESIGN TEAM PROJECT NO.

FACILITY:

17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:

VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:

ELECTRICAL DETAILS

BID SET

PROGRESS

DATE: 10/26/2023

CLIENT PROJ NO: R221551X01

SHEET:

E0.3

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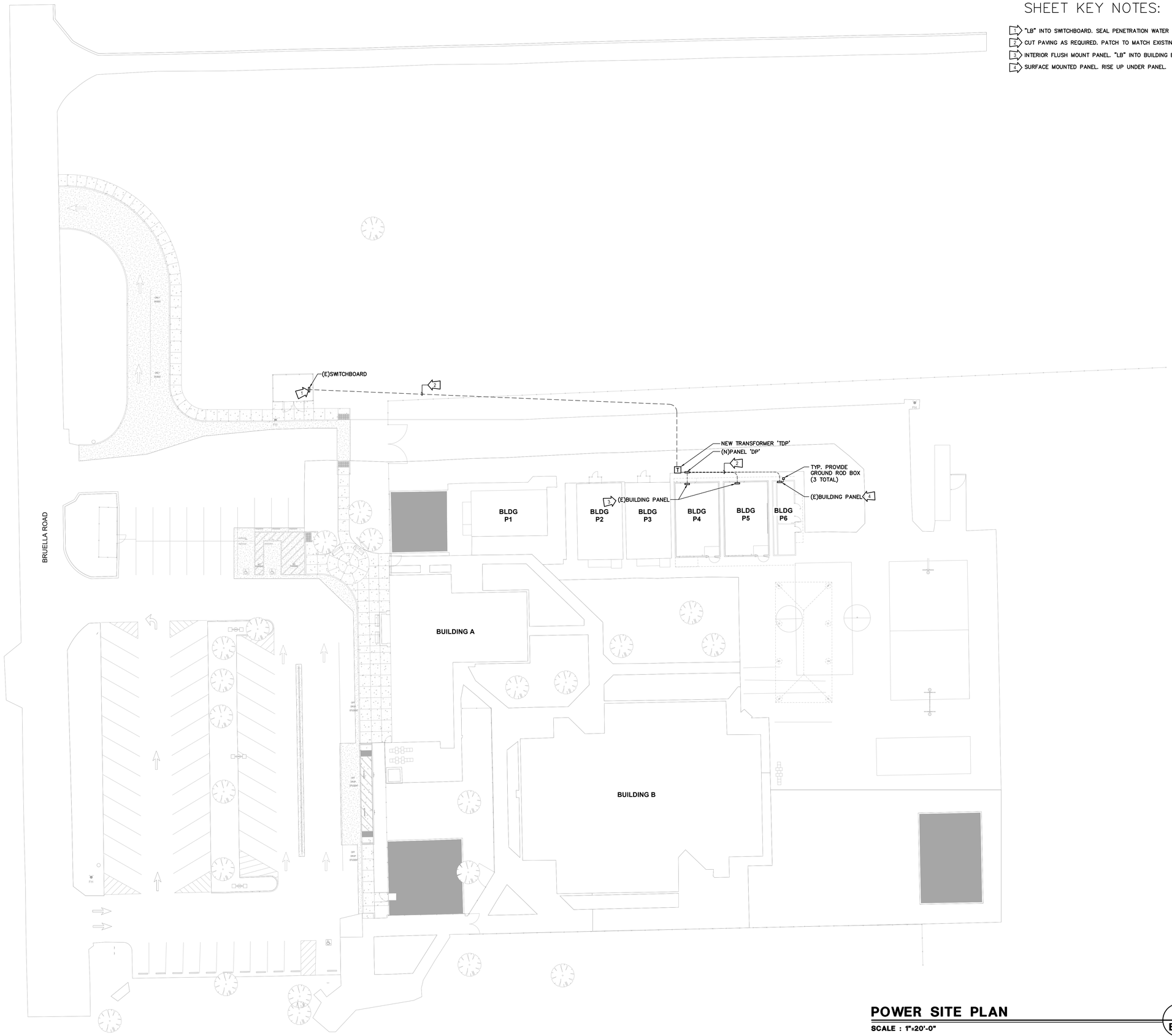
SHEET KEY NOTES:

1. "LB" INTO SWITCHBOARD. SEAL PENETRATION WATER TIGHT.
2. CUT PAVING AS REQUIRED. PATCH TO MATCH EXISTING.
3. INTERIOR FLUSH MOUNT PANEL. "LB" INTO BUILDING BEHIND PANEL.
4. SURFACE MOUNTED PANEL. RISE UP UNDER PANEL.



POWER SITE PLAN

SCALE : 1"=20'-0"

1
E1.0

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POWER SITE PLAN

BID SET

PROGRESS

DATE: 10/26/2023

CLIENT PROJ NO: R221551X01

SHEET:

E1.0

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LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	LAMPS	WATTS	COLOR	LUMENS	MOUNTING	WEIGHT	NOTES
P1	D-SERIES SIZE 0 AREA LUMINAIRE P2 PERFORMANCE PACKAGE 4000K CCT 80 CRI TYPE 2 MEDIUM	LITHONIA LIGHTING CAT. NO. DSX0 LED P2 40K 80CRI T2M MVOLT PIR BL50 DDBXD	LED	45.14	DARK BRONZE	6180	15' FIXTURE HEIGHT SEE 7/E0.3	23 LBS	

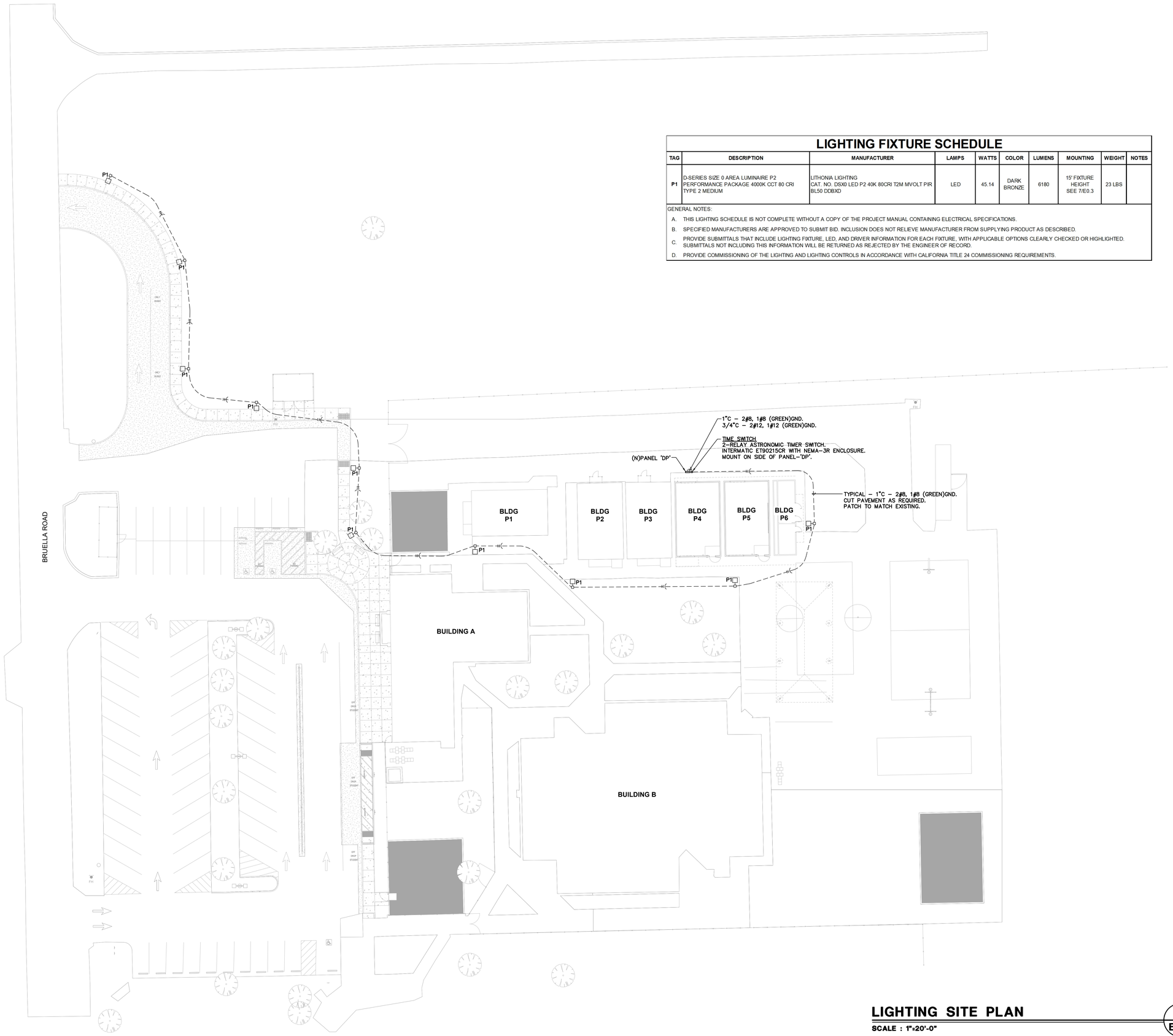
GENERAL NOTES:

A. THIS LIGHTING SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING ELECTRICAL SPECIFICATIONS.

B. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.

C. PROVIDE SUBMITTALS THAT INCLUDE LIGHTING FIXTURE, LED, AND DRIVER INFORMATION FOR EACH FIXTURE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.

D. PROVIDE COMMISSIONING OF THE LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH CALIFORNIA TITLE 24 COMMISSIONING REQUIREMENTS.



LIGHTING SITE PLAN

SCALE : 1"=20'-0"

1
E2.0

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VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:

LIGHTING SITE PLAN

BID SET

PROGRESS

DATE: 10/26/2023

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SHEET:

E2.0

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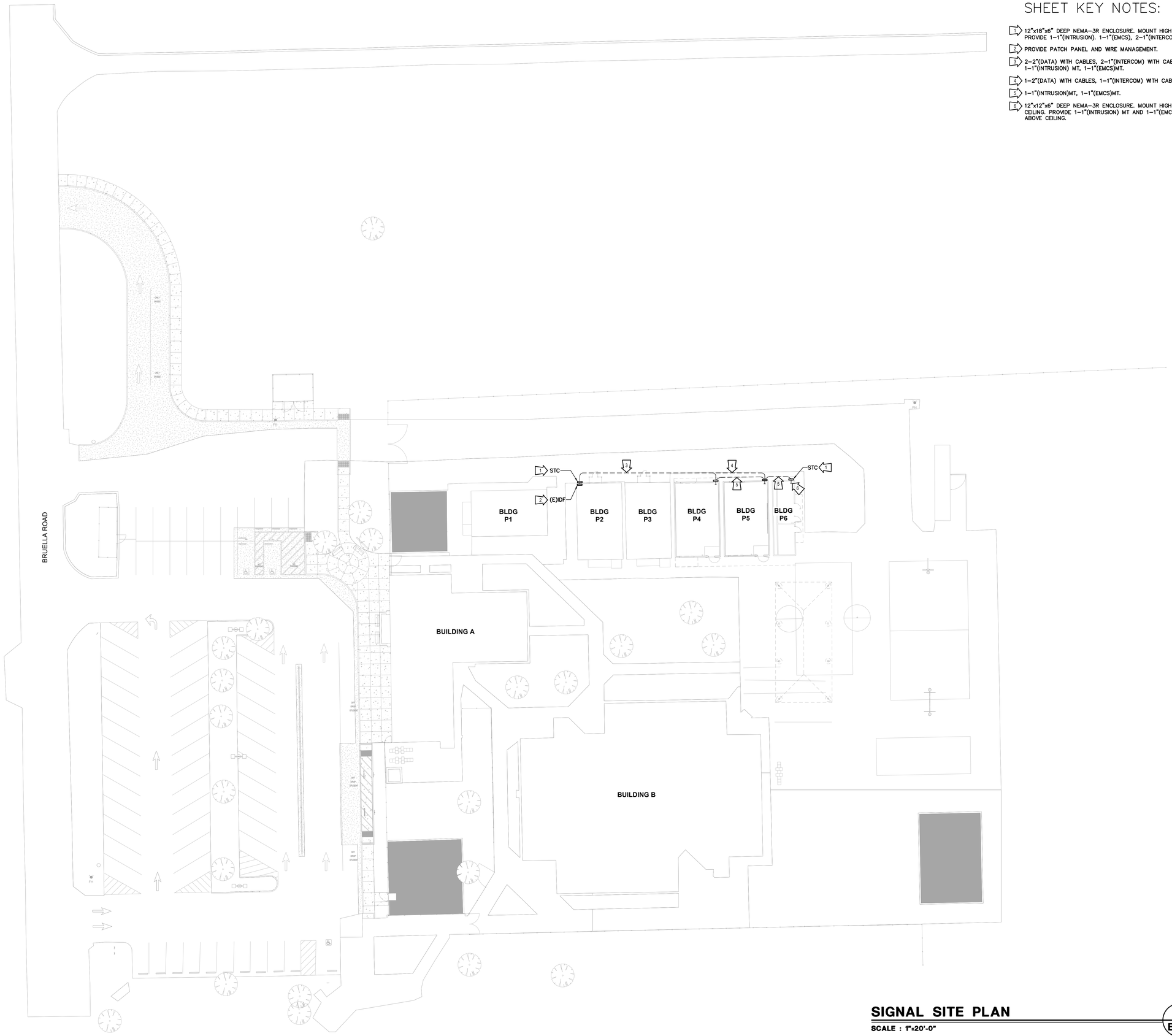
SHEET KEY NOTES:

1. 12"x18"x6" DEEP NEMA-3R ENCLOSURE. MOUNT HIGH ABOVE CEILING. PROVIDE 1-1"(INTRUSION). 1-1"(EMCS), 2-1"(INTERCOM), 2-2"(DATA).
2. PROVIDE PATCH PANEL AND WIRE MANAGEMENT.
3. 2-2"(DATA) WITH CABLES, 2-1"(INTERCOM) WITH CABLES, 1-1"(INTRUSION) MT, 1-1"(EMCS)MT.
4. 1-2"(DATA) WITH CABLES, 1-1"(INTERCOM) WITH CABLES.
5. 1-1"(INTRUSION)MT, 1-1"(EMCS)MT.
6. 12"x12"x6" DEEP NEMA-3R ENCLOSURE. MOUNT HIGH ABOVE CEILING. PROVIDE 1-1"(INTRUSION) MT AND 1-1"(EMCS) MT STUB ABOVE CEILING.



SIGNAL SITE PLAN

SCALE : 1"=20'-0"

1
E3.0

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SHEET NAME:

SIGNAL SITE PLAN

BID SET

PROGRESS

DATE: 10/26/2023

CLIENT PROJ NO: R221551X01

SHEET:

E3.0

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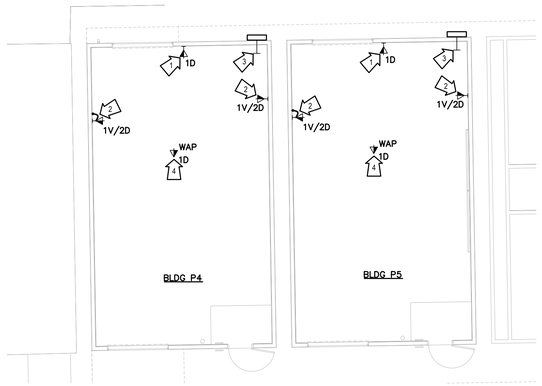
SHEET KEY NOTES:

1. PROVIDE INTERCOM OUTLET WITH 1-CAT6 JACK. MOUNT HIGH ON CEILING. PROVIDE 1-CAT6 CABLE FROM JACK TO (E)IDF. TERMINATE IN PATCH PANEL. SEE SIGNAL SITE PLAN FOR LOCATION. PROVIDE JACKS AND WIRE MANAGEMENT.
2. PROVIDE VOICE/DATA OUTLET WITH 1-CAT6(VOICE) AND 2-CAT6(DATA) JACKS. MOUNT 18" AFF WITH SURFACE RACEWAY TO CEILING. PROVIDE 3-CAT6 CABLES FROM JACKS TO (E)IDF. TERMINATE IN PATCH PANEL. SEE SIGNAL SITE PLAN FOR LOCATION. PROVIDE JACKS AND WIRE MANAGEMENT.
3. CONDUIT STUBS ABOVE CEILING. 1-2"(DATA), 1-1"(INTERCOM), 1-1"(INTRUSION), 1-1"(MCS).
4. PROVIDE CEILING DATA OUTLET FOR WAP WITH 1-CAT6 JACK. PROVIDE 1-CAT6 CABLE FROM JACK TO (E)IDF. TERMINATE IN PATCH PANEL. SEE SIGNAL SITE PLAN FOR LOCATION. PROVIDE JACK AND WIRE MANAGEMENT.



SIGNAL FLOOR PLAN

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

1
E3.1

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NATHAN A. HEARN
No. E 23927
3-31-2024
ELECTRICAL
STATE OF CALIFORNIA
10/20/2023

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LODI, CA 95240

PROJECT:

VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:

SIGNAL FLOOR PLAN

BID SET

PROGRESS

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SHEET:

E3.1

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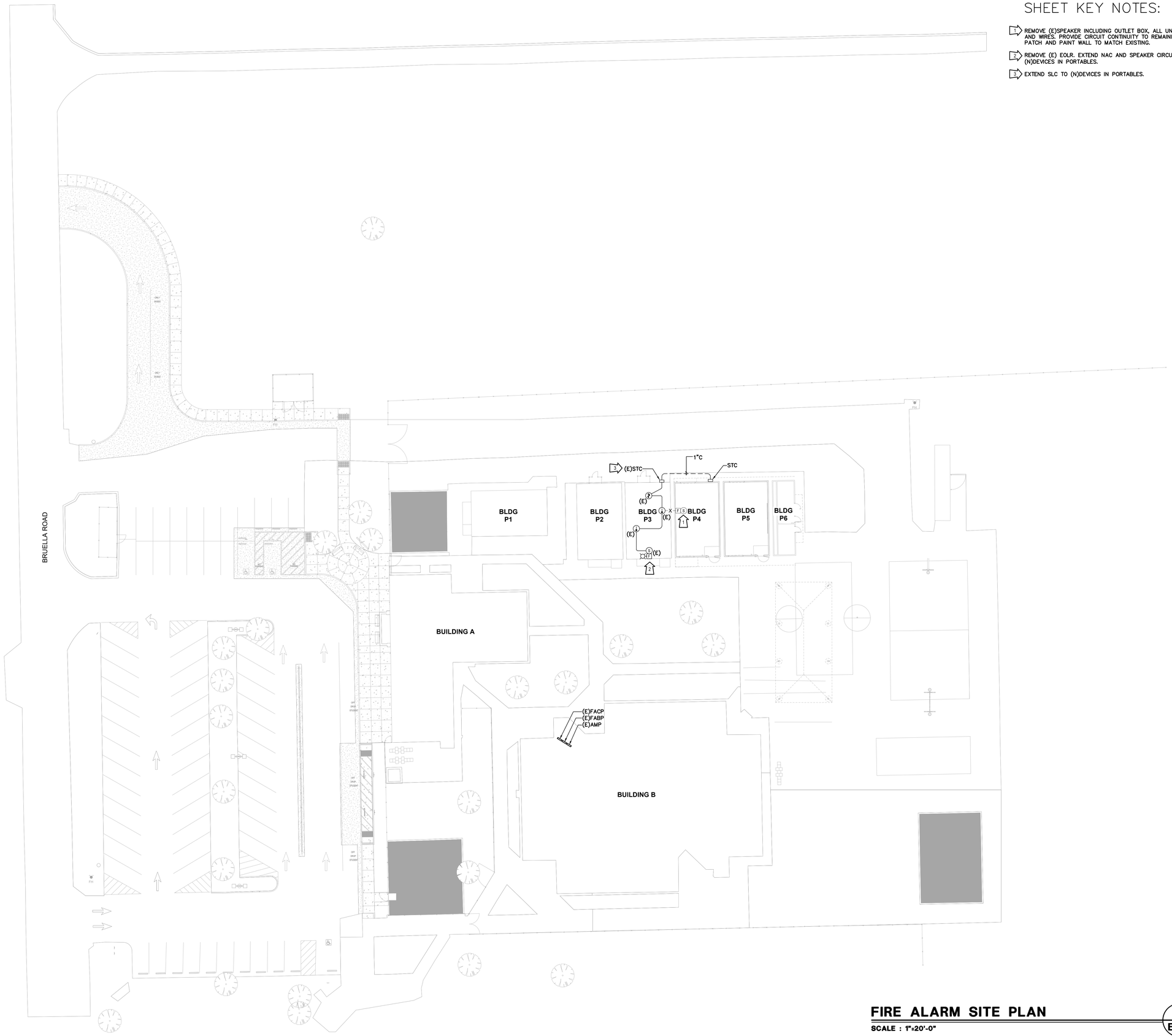
SHEET KEY NOTES:

1. REMOVE (E)SPEAKER INCLUDING OUTLET BOX, ALL UNUSED CONDUIT AND WIRES. PROVIDE CIRCUIT CONTINUITY TO REMAINING DEVICES. PATCH AND PAINT WALL TO MATCH EXISTING.
2. REMOVE (E) EOLR. EXTEND NAC AND SPEAKER CIRCUITS TO (N)DEVICES IN PORTABLES.
3. EXTEND SLC TO (N)DEVICES IN PORTABLES.



FIRE ALARM SITE PLAN

SCALE : 1"=20'-0"

1
E4.0

AGENCY APPROVAL:

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PM - DESIGN TEAM PROJECT NO.

FACILITY:

17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:

VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:

FIRE ALARM SITE PLAN

BID SET

PROGRESS

DATE: **10/26/2023** | CLIENT PROJ NO: **R221551X01**

SHEET:

E4.0

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BATTERY CALCULATION WORKSHEET

EQUIPMENT / DEVICE	QUANTITY	DEVICE STANDBY CURRENT (AMPS)	TOTAL STANDBY CURRENT (AMPS)	DEVICE ALARM CURRENT (AMPS)	TOTAL ALARM CURRENT (AMPS)
FIRE ALARM BOOSTER PANEL - FABP	1	0.091	0.091	2.377	2.377
FIRE ALARM SPEAKER/STROBE (30cd)	3	0	0	0.063	0.189
FIRE ALARM SPEAKER/STROBE (75cd)	2	0	0	0.107	0.214
		TOTALS:	0.091		2.780

NOTES:
BATTERY CALCULATIONS FOR 24 HOURS (STANDYBY) PLUS 15 MINUTES (ALARM).
(TOTAL STANDBY CURRENT)(24HRS) + (TOTAL ALARM CURRENT)(15/60HR) X (125%) = MIN. BATTERY AMP HRS REQ'D.
(0.091) (24HRS) + (2.780) (15/60HR) X (125%) = 3.60 AMP HOUR (MINIMUM BATTERY)
(E)BATTERY PROVIDE = 7.0 Ahr

BATTERY CALCULATION WORKSHEET

EQUIPMENT / DEVICE	QUANTITY	DEVICE STANDBY CURRENT (AMPS)	TOTAL STANDBY CURRENT (AMPS)	DEVICE ALARM CURRENT (AMPS)	TOTAL ALARM CURRENT (AMPS)
FIRE ALARM AMPLIFIER - AMP	1	0.086	0.086	2.4465	2.4465
FIRE ALARM SPEAKER (1/2W)	5	0	0	0.02	0.1
FIRE ALARM SPEAKER (2W)	2	0	0	0.08	0.16
		TOTALS:	0.0860		2.7065

NOTES:
BATTERY CALCULATIONS FOR 24 HOURS (STANDYBY) PLUS 15 MINUTES (ALARM).
(TOTAL STANDBY CURRENT)(24HRS) + (TOTAL ALARM CURRENT)(15/60HR) X (125%) = MIN. BATTERY AMP HRS REQ'D.
(0.086) (24HRS) + (2.707) (15/60HR) X (125%) = 3.43 AMP HOUR (MINIMUM BATTERY)
(E)BATTERY PROVIDE = 7.0 Ahr EXISTING

FIRE ALARM VOLTAGE DROP CALCULATIONS

FABP

SIG CKT#	[N1]						
DEVICE	1	2	3	4	5	6	7
WIRE GAUGE	12	12	12	12	12	12	12
OHMS / 1000FT	1.93	1.93	1.93	1.93	1.93	1.93	1.93
DISTANCE	220	160	160	160	90	20	22
AMPS @ DEVICE	0.107	0.107	0.107	0.107	0.063	0.063	0.063
AMPS DEVELOPED	0.617	0.51	0.403	0.296	0.189	0.126	0.063
DEVICE VOLT DROP	0.524	0.315	0.2489	0.1828	0.0657	0.0097	0.0053
CKT VOLT DROP	19.876	19.561	19.312	19.129	19.064	19.054	19.049

SIGNAL CKT # = N1
AMPS DEVELOPED = 0.617 VOLTS
TOTAL CIRCUIT VOLTAGE DROP =1.3514 VOLTS
CIRCUIT VOLTAGE (24V X 85%) = 20.4 VOLTS
ESTIMATED VOLTAGE AT LAST DEVICE ON CKT = 19.049
% VOLTAGE DROP = 6.6%

BATTERY CALCULATION WORKSHEET

EQUIPMENT / DEVICE	QUANTITY	DEVICE STANDBY CURRENT (AMPS)	TOTAL STANDBY CURRENT (AMPS)	DEVICE ALARM CURRENT (AMPS)	TOTAL ALARM CURRENT (AMPS)
FIRE ALARM PANEL - FACP	1	0.106	0.106	0.544	0.544
FIRE ALARM SMOKE DETECTOR	7	0.0002	0.0014	0.0002	0.0014
FIRE ALARM ATTIC HEAT DETECTOR (190°F)	5	0.0002	0.001	0.0002	0.001
		TOTALS:	0.1084		0.5464

NOTES:
BATTERY CALCULATIONS FOR 24 HOURS (STANDYBY) PLUS 15 MINUTES (ALARM).
(TOTAL STANDBY CURRENT)(24HRS) + (TOTAL ALARM CURRENT)(15/60HR) X (125%) = MIN. BATTERY AMP HRS REQ'D.
(0.108) (24HRS) + (0.546) (15/60HR) X (125%) = 3.42 AMP HOUR (MINIMUM BATTERY)
BATTERY PROVIDE = 7.0 Ahr EXISTING

VOLTAGE DROP FORMULAS

VD = VOLTAGE DROP

L = ONE WAY LENGTH OF CIRCUIT (IN FEET)

R = CONDUCTOR RESISTANCE (IN OHMS/FEET)

I = LOAD CURRENT (IN AMPS)

$$VD = \frac{2 \times L \times R \times I}{1000}$$

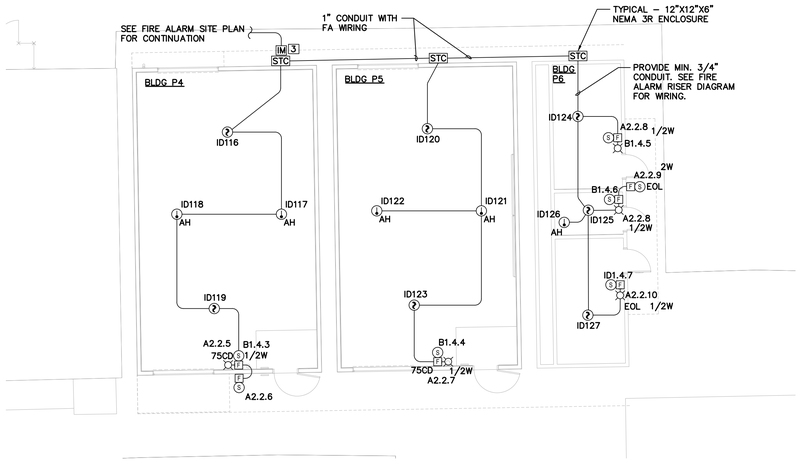
$$\%VD = \frac{VD}{24} \times 100$$

FIRE ALARM SYSTEM CABLE SCHEDULE

CABLE TAG	CIRCUIT DESCRIPTION	CABLE TYPE	GAUGE	CONDUCTORS	COLOR
A	SIGNAL LINE CIRCUIT (SLC)	FPL	#18	2	RED JACKET
B	NOTIFICATION APPLIANCE CIRCUIT (ANC)	FPL	#12	2	RED JACKET
S	SPEAKER CIRCUIT	FPL OVERALL SHIELDED	#14	2	RED JACKET

FIRE ALARM EQUIPMENT SCHEDULE

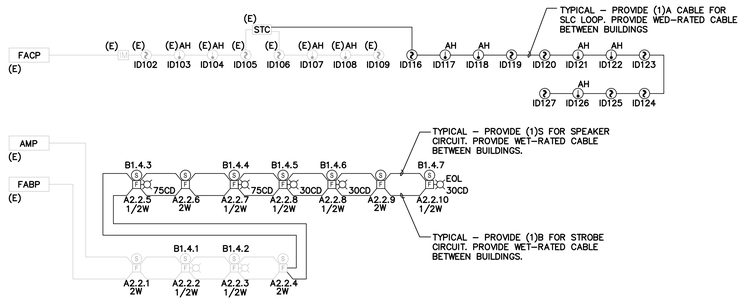
SYMBOLS	EQUIPMENT/DEVICE	MANUFACTURER AND MODEL NUMBER	CSFM LISTING NO.	STANDBY AMPS	ALARM AMPS
FACP	(E) FIRE ALARM CONTROL PANEL	GAMEWELL-FCI / E3	7165-1703:0125	0.106	0.544
AMP	SPEAKER AMPLIFIER PANEL	GAMEWELL-FCI / INX	6911-1703:0118	0.086	2.4465
FABP	FIRE ALARM BOOSTER PANEL	GAMEWELL-FCI / HPF24S8	7315-1637:0102	0.091	2.377
?	ADDRESSABLE SMOKE DETECTOR	GAMEWELL-FCI / ASD-PL3	7272-1703:0501	0.0002	0.002
AH	ADDRESSABLE HEAT DETECTOR AH = ATTIC HEAT (ie. ABOVE CEILING)	GAMEWELL-FCI / ATD-L3H-IV	7270-1703:0502	0.0002	0.002
S F 30/75CD	WALL MOUNTED SPEAKER/STROBE	SYSTEM SENSOR / SPSRL	7320-1653:0505	0	0.107
S F	WEATHERPROOF WALL MOUNTED SPEAKER	SYSTEM SENSOR / SPRK	7320-1653:0201	0	0.08



FIRE ALARM FLOOR PLAN

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

1 / E4.1



FIRE ALARM FLOOR PLAN

SCALE : NO SCALE

2 / E4.1

AGENCY APPROVAL:

LODI USD

HMC Architects

2101 CAPITOL AVE SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER NAYAN A. REGALADO No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA

Date Signed: 10/20/23

capital engineering
RANCHO CORDOVA, CALIFORNIA
NH - JSG 230908
PM - DESIGN TEAM PROJECT NO.

FACILITY:
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FIRE ALARM FLOOR PLAN

BID SET

PROGRESS

DATE: **10/26/2023** CLIENT PROJ NO: **R221551X01**

SHEET:
E4.1

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS 2" LONG ON ORIGINAL PLANS SHEETS ORIGINAL PAGE SIZE

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Victor Elementary School	**Report Page:**	**(Page 7 of 7)**
Project Address:	17670 Bruella Rd	**Date Prepared:**	10/20/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Jefferson Gulde	Documentation Author Signature:
Company: Capital Engineering Consultants Inc.	Signature Date: 2023-10-20
Address: 11020 Sun Center Drive, Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova CA 95670	Phone: 916-851-3567

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: Nathan Hearn	Responsible Designer Signature:
Company: Capital Engineering Consultants Inc.	Date Signed: 2023-10-20
Address: 11020 Sun Center Drive, Suite 100	License: E23927
City/State/Zip: Rancho Cordova CA 95670	Phone: 916-851-3568

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Victor Elementary School	**Report Page:**	**(Page 4 of 7)**
		Date Prepared:	10/20/2023

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 / 150.5(c)	Field Inspector	
				Pass	Fail
Pedestrian Hardscape	Astronomical Timer	Provided	Provided	☐	☐

[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
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Victor Elementary School	**Report Page:**	**(Page 1 of 7)**
Project Address:	17670 Bruella Rd	**Date Prepared:**	10/20/2023

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

A. GENERAL INFORMATION

01	Project Location (city)	Lodi	04	Total Illuminated Hardscape Area (ft²)	31616
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%		

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:	Victor Elementary School	**Report Page:**	**(Page 5 of 7)**
		Date Prepared:	10/20/2023

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)	
WALKWAY	31616	0.021	663.9	1261	0.2	252.1	916
						Initial Wattage Allowance for Entire Site (Watts):	250
						Instances of Initial Wattage Allowance (LZ 0 only)[1]	
						Total General Hardscape Allowance (Watts):	1166

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.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Victor Elementary School	**Report Page:**	**(Page 2 of 7)**
		Date Prepared:	10/20/2023

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**
1,166	+	---	+	---	+	---	+	---	OR	---	=	1,166	≥	451	COMPLIES
												Shielding Compliance (See Table G for Details)			N/A
												Controls Compliance (See Table H for Details)			COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Victor Elementary School	**Report Page:**	**(Page 3 of 7)**
		Date Prepared:	10/20/2023

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.	Pedestrian Hardscape;

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Victor Elementary School	**Report Page:**	**(Page 2 of 7)**
		Date Prepared:	10/20/2023

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

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

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
P1	P1	☐ Linear	45.1	Mfr. Spec	10	New	☐	451	NA: < 6200 lumens	☐	☐
								Total Design Watts:	451		

* 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.

AGENCY APPROVAL:

LODI USD

HMC Architects
2101 CAPITOL AVE SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

capital engineering
REGISTERED PROFESSIONAL ENGINEER NATHAN A. HEARN No. E 23927 3-31-2024 ELECTRICAL STATE OF CALIFORNIA
Date Signed: 10/20/23
RANCHO CORDOVA, CALIFORNIA
NH - JSG 230908
PM - DESIGN TEAM PROJECT NO.

FACILITY:

17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:

VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:

TITLE 24 - LTO FORMS

BID SET

PROGRESS

DATE: **10/26/2023** CLIENT PROJ NO: **R221551X01**

SHEET:

E5.0

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ON THE ORIGINAL PAGE SIZE

MODTECH DESIGN MT-2440-O
PC 04-101419
RELOCATABLE CLASSROOM BUILDINGS
BUILDING SIZE: 24'x40'

OFFICE OF PUBLIC SCHOOL CONSTRUCTION

BUILDING TYPE 1

STOCKPILE

190 **BUILDINGS**

BUILDING DATA

STRUCTURAL DESIGN: RIGID FRAME
TYPE OF CONSTRUCTION: V-N
WIND LOAD (EXP C): 80 MPH
FLOOR LIVE LOAD: 50 PSF
ROOF LIVE LOAD: 20 PSF
OCCUPANCY: 24'x40' CLASSROOM: E-2

BUILDING AREA:
24'x40' BUILDING – 960 SF

APPLICABLE CODES

TITLE 24. CCR. PART 2. 1998 CBC (97 UBC W/98 CA AMENDMENTS)
1997 UBC & 1998 CA AMENDMENTS (98 CBC – PART 2, TITLE 24, CCR)
1996 NEC & 1998 CA AMENDMENTS (98 CEC – PART 3, TITLE 24, CCR)
1997 UMC & 1998 CA AMENDMENTS (98 CMC – PART 4, TITLE 24, CCR)
1997 UPC & 1998 CA AMENDMENTS (98 CPC – PART 5 TITLE 24, CCR)
1997 UFC & 1998 CA AMENDMENTS (98 CFC – PART 9, TITLE 24, CCR)
1998 CA BUILDING STANDARDS CODE
TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS.

LEGEND

SYMBOL	DESCRIPTION
1/2	DETAIL (1) ON SAME SHEET AS SYMBOL
1/2	DETAIL (1) ON SHEET (2)
1	KEY NOTE (1) ON SAME SHEET AS SYMBOL
A/2	SECTION "A" ON SHEET (2)
1	REVISION/CHANGE IN DRAWING. (1) IS FIRST REVISION
CLOUD	HIGHLIGHTS CHANGED AREA
1	DOOR REFERENCE
A	WINDOW REFERENCE
EL	ELECTRICAL ITEM(S) SEE ELECTRICAL DRAWINGS
HV	HEATING/VENTILATING & AIR CONDITIONING ITEM(S) SEE MECHANICAL DRAWINGS
PLG	PLUMBING ITEM(S) SEE MECHANICAL DRAWINGS
STR	STRUCTURAL ITEM(S) SEE STRUCTURAL DRAWINGS
FIN	FINISH ITEM(S) SEE FINISH SCHEDULE
RAMP	RAMP – SEE RAMP DRAWINGS

ABBREVIATIONS

AGC = ABOVE GRADE CONCRETE
BGC = BELOW GRADE CONCRETE
DIA = DIAMETER
CLR = CLEAR
GA = GAUGE
SIM = SIMILAR
MAX = MAXIMUM
MIN = MINIMUM
NIC = NOT IN CONTRACT
NTS = NOT TO SCALE
OC = ON CENTER
OD = OUTSIDE DIAMETER
OSB = ORIENTED STRAND BOARD
ROH = ROOF OVERHANG
SIM = SIMILAR
STS = SELF TAPPING SCREW
STSMS = SELF TAPPING SHEET METAL SCREW
TYP = TYPICAL
UON = UNLESS OTHERWISE NOTED

WITH THE SIGNING OF THESE DRAWINGS, WE ACKNOWLEDGE THAT WE HAVE REVIEWED THESE PLANS AND SPECIFICATIONS AND HAVE FOUND THEM TO BE IN GENERAL COMPLIANCE WITH THE BID DRAWINGS, SPECIFICATIONS AND ASSOCIATED ADDENDA. WHEN THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT, THEY SHALL PRESIDE OVER CONFLICTING AREAS IN THE BID DRAWINGS AND SPECIFICATIONS, AND ANY ADDENDA THERETO.

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SHEET INDEX

ARCHITECTURAL

A.0 TITLE SHEET
A1.0 FLOOR PLAN 24'X40'
A2.0 ROOF PLAN (DUAL PITCH) 24'X40'
~~A3.0 EXTERIOR ELEVATIONS (DUAL PITCH) 24'X40' W/ FASCIA~~
A3.01 EXTERIOR ELEVATIONS (DUAL PITCH) 24'X40' W/O FASCIA
A4.0 INTERIOR ELEVATIONS 24'X40'
A5.0 DOOR, WINDOW, FINISH, HARDWARE SCHEDULES
A6.0 ARCHITECTURAL DETAILS (WOOD STUDS)
A6.1 ARCHITECTURAL DETAILS (WOOD STUDS)
A6.0M ARCHITECTURAL DETAILS (METAL STUDS)
A6.1M ARCHITECTURAL DETAILS (METAL STUDS)
~~A7.0 REFLECTED CEILING PLAN (24'X40') (10 LIGHTS)~~
A7.01 REFLECTED CEILING PLAN (24'X40') (10 LIGHTS)
A7.1 REFLECTED CEILING DETAILS
A8.0 SPECIFICATIONS
A8.1 SPECIFICATIONS

STRUCTURAL

F1.0 FOUNDATION PLAN (24 x 40) 50 PSF LL (WOOD)
~~F2.0 FOUNDATION DETAILS (WOOD)~~
F2.01 FOUNDATION DETAILS (WOOD)
S1.0 FLOOR FRAMING PLAN 50 PSF LL
S1.2 FLOOR FRAMING DETAILS (TYPICAL)
~~S2.0 ROOF FRAMING PLAN (DUAL PITCH) W/ FASCIA~~
S2.01 ROOF FRAMING PLAN (DUAL PITCH) W/O FASCIA
S2.1 ROOF FRAMING DETAILS (TYP.)
S3.0 STRUCTURAL ELEVATIONS & DETAILS (DUAL PITCH)
~~S3.01 STRUCTURAL ELEVATIONS & DETAILS (DUAL PITCH)~~
S4.0 WALL FRAMING (WOOD)
S4.0M WALL FRAMING (METAL)
S5.0 WALL FRAMING DETAILS (WOOD)
S5.1 WALL FRAMING DETAILS (WOOD)
S5.0M WALL FRAMING DETAILS (METAL)
S5.1M WALL FRAMING DETAILS (METAL)

MECHANICAL

~~M1.0 MECHANICAL (HVAC) PLAN 24'X40' – 3 1/2 TON~~
M1.01 MECHANICAL (HVAC) PLAN 24'X40' – 5 TON

ELECTRICAL

~~E1.0 ELECTRICAL PLAN 24'X40'~~
E1.01 ELECTRICAL PLAN 24'X40'

RAMP

~~R1.00 RAMP/LANDING PLAN W/ 11' RAMP~~
R1.01 RAMP/LANDING PLAN W/ 12' RAMP
R1.02 RAMP/STAIRS DETAILS
~~R2.01 OPTION RAMP/LANDING PLAN~~
~~R2.02 OPTION RAMP/STAIRS DETAILS~~
~~R4.01 CONCRETE RAMP~~

FOR PERFORMANCE SPECIFICATION ITEMS

These drawings and/or specifications and/or calculations for the items listed below have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. These documents have been examined by me for design intent and have been found to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me.

The items listed below are acceptable for incorporation into the construction of this project for which I am the individual designated to be in general responsible charge (or for which I have been delegated responsibility for this portion of the work).

Items ~~listed below are not acceptable~~ as noted.

4/6/01
Signature of the Architect/Engineer Date
C 7067 5/31/01 C-9771
License # Exp. Date
The Huddle Building GORDON H CHONG 130 Sutter Street
Suite 300 & Partners San Francisco
ph: 415-433. 0320 Ca 941044012

FOR PERFORMANCE SPECIFICATION ITEMS

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License # Exp. Date
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Suite 300 & Partners San Francisco
ph: 415-433. 0320 Ca 941044012

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LICENSED ARCHITECT GORDON HOWARD CHONG C-9771 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

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MODTECH INC. CERTIFIES THAT NO ASBESTOS CONTAINING PRODUCTS OR MATERIALS WERE USED IN THE CONSTRUCTION OF ANY OF THE BUILDINGS SUPPLIED UNDER THE OFFICE OF PUBLIC SCHOOL CONSTRUCTION CONTRACTS

REVISIONS			Electrical Engineer's Seal	Mechanical Engineer's Seal	~~Electrical Engineer's Seal~~	Architects Seal
1						
2						
3						
4						
5						

IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
PC-04
101419
DATE 11/13/01
ACP: D. PENNACCHIO
PM: EPHREM A.

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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MODTECH Index No.

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PC-04-101419 PROJECT NO.

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
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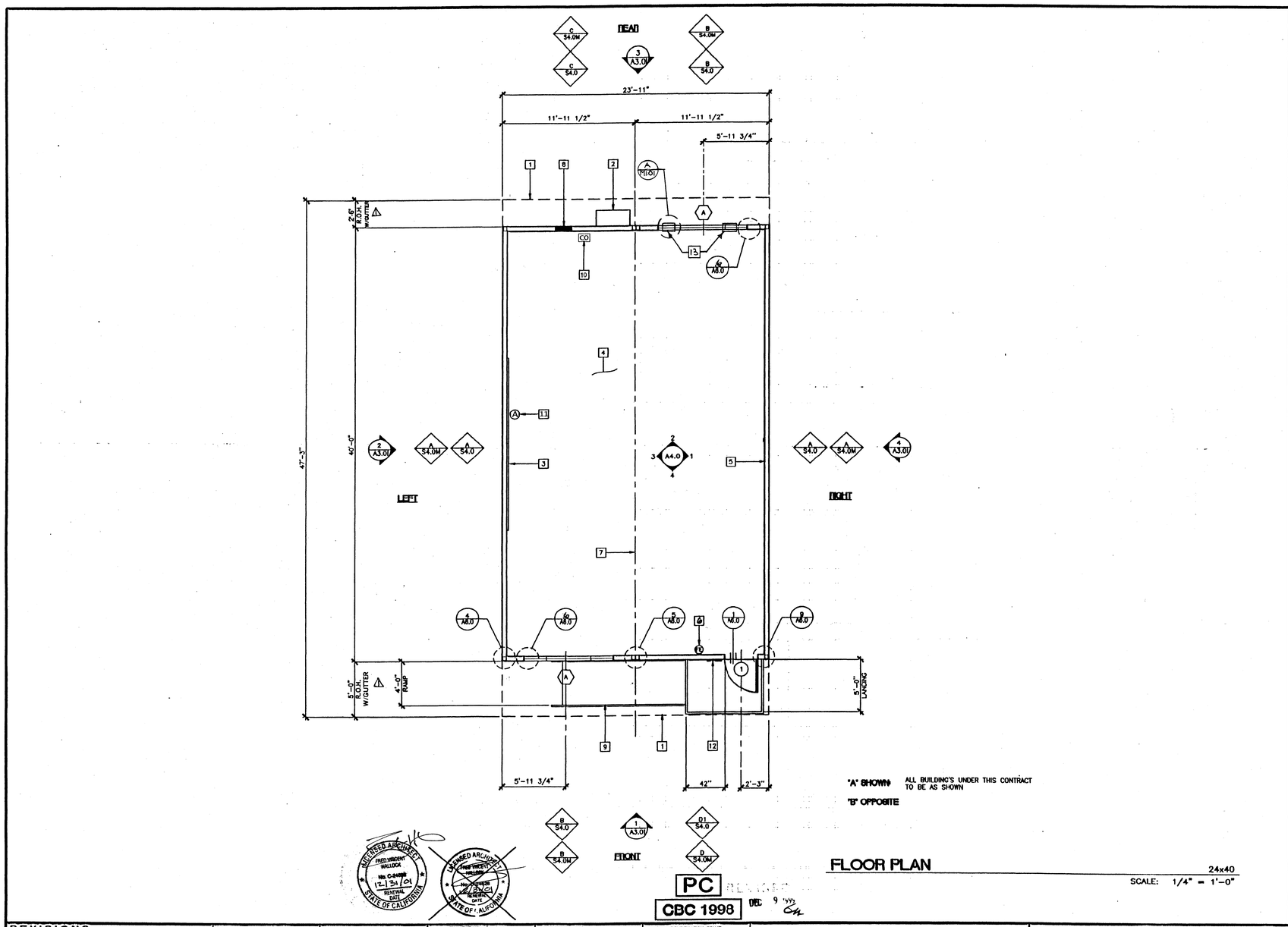

"A" SHOWN ALL BUILDING'S UNDER THIS CONTRACT TO BE AS SHOWN

"B" OPPOSITE

FLOOR PLAN

24x40

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

PC

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DEC 9 1999

KEY NOTES

1. ROOF OVERHANG
2. HVAC UNIT (HV)
3. 2 – 8'x4' MARKER BOARDS (SEE SPEC'S FOR TYPE)
4. FINISH FLOORING (FIN)
5. INTERIOR FINISH (FIN)
6. FIRE EXTINGUISHER – 5 LBS DRY CHEMICAL WITH 2A-10BC UL RATING WALL MOUNTED BRACKET, HANDLE AT 48" AFF
7. MODLINE (M)
8. ELECTRICAL PANEL
9. RAMP/LANDING (RAMP)
10. Co2 SENSOR AT +8'-0''AFF (EL)
11. INTRUSION ALARM DETECTOR AT +7'-6''AFF (EL)
12. SIGNAGE PROVIDED AND INSTALLED BY DISTRICT PRIOR TO OCCUPANCY, SEE A5.0.
13. BAROMETRIC RELIEF DAMPER (14"x14") 2-TOTAL BELOW T-BAR AS HIGH AS POSSIBLE ON WALL. FRAMED OPENING IS 14 1/2" x 14 1/2"

NOTES

1. METAL TAG ON ALL MODULES. MECHANICALLY ATTACHED TO REAR EXTERIOR OF BUILDING SHOW D.S.A. APPLICATION NUMBER. MANUFACTURER'S NAME AND SERIAL NUMBER.
2. METAL TAG MIN. 3 1/2"X1 1/2" STAMPED METAL I.D. W/
   1. OPSC BUILDING NUMBER
   2. DESIGN WIND LOAD
   3. DESIGN ROOF LOAD
3. PROVIDE MIN. 3 1/2"X1 1/2" METAL TAG INSTALLED INSIDE THE ELECTRICAL PANEL SHOWING OPSC NUMBER AND DSA NUMBER.

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3						
4						
5						

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FLOOR PLAN

A1.0

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FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
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SHEET NAME:
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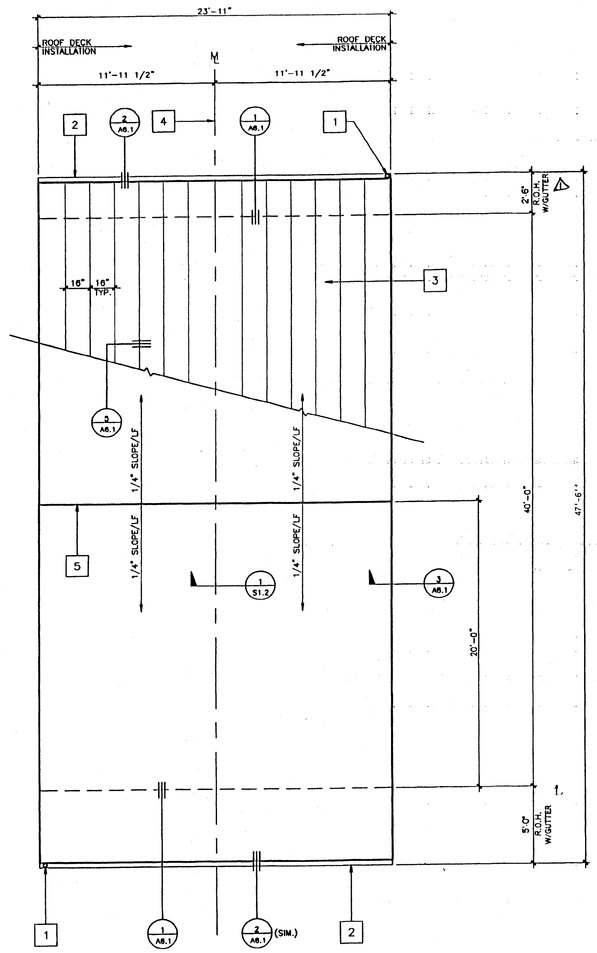
REAR



LEFT

RIGHT

FRONT

ROOF PLAN (DUAL SLOPE) (24'X40')

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

KEY NOTES

1. DOWNSPOUT (TYPICAL 3" X 2" X 26GA)
2. CONTINUOUS GUTTER 26GA.
3. 22GA. MIN. INTERLOCKING ROOF PANELS (TYP)
4. MODLINE
5. RIDGELINE

NOTES

1. BUILDING HOUSING GROUP E OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 15A. C.B.C. CLASS A

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Structural Engineer's Seal

Architects Seal

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ROOF PLAN

A2.0

PROJECT NO. PC-04-101419

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LODI, CA 95240

PROJECT:
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SHEET NAME:
ROOF PLAN

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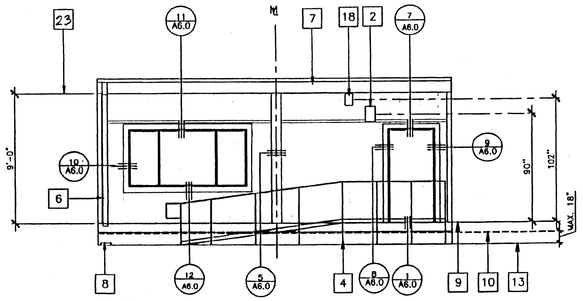
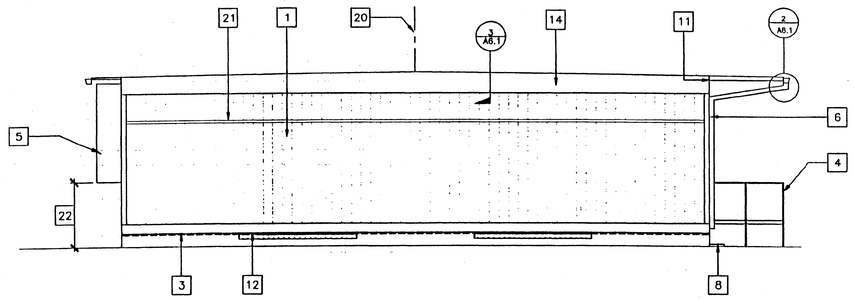
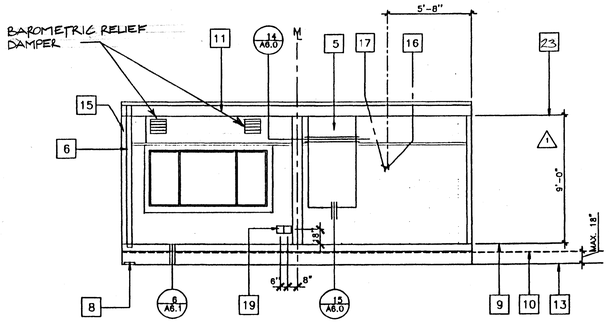


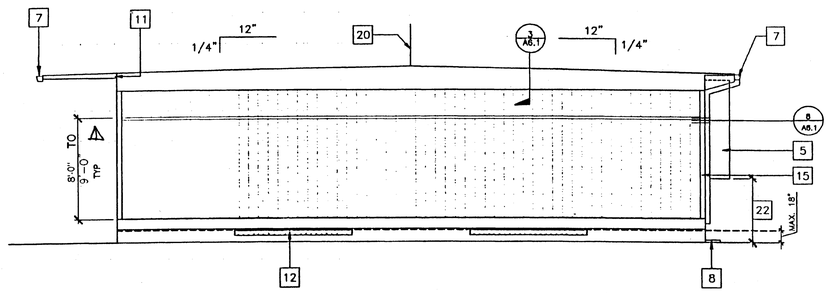
1 FRONT ELEVATION
1/4" = 1'-0"



2 LEFT ELEVATION
1/4" = 1'-0"



3 REAR ELEVATION
1/4" = 1'-0"



4 RIGHT ELEVATION
1/4" = 1'-0"

"A" = SHOWN
"B" = OPPOSITE

PC
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KEY NOTES

1. TYPICAL EXTERIOR SIDING (SEE A5.0)
2. EXTERIOR LIGHT FIXTURE (SEE SPEC'S)
3. TOP OF SKIRTING
4. RAMP AND LANDING SEE SHT. R-1
5. HVAC UNIT. SEE (HV)
6. DOWNSPOUT (TYP.) FOR (2). FASTEN TO BLD'G. TYP 3 PLACES (SEE 8/A6.1)
7. CONTINUOUS GUTTER WITH DOWNSPOUT (LOCATION OF DOWNSPOUT SHOWN ON ROOF PLAN) SEE A2.0
8. SPLASH BLOCK (BY OTHERS)
9. FINISH FLOOR LINE
10. BOTTOM FLANGE OF FLOOR BEAM
11. ROOF HEADER
12. VENT. SEE FOUNDATION PLAN
13. FINISH GRADE
14. ROOF BEAM SEE (STR)
15. COLUMN SEE (STR)
16. ELECTRICAL STUB-OUT SEE (EL)
17. GROUND STUB-OUT SEE (EL)
18. J BOX FOR EXT. FA HORN SEE (EL)
19. NEMA 6" X 6" GUTTER BOX SEE (EL)
20. RIDGE
21. GI Z FLASHING
22. IF HVAC UNIT IS LOCATED IN ANY PATH OF TRAVEL OR CIRCULATION AREA AND HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" THEN PROTECTION MUST BE PROVIDED.
23. TOP OF COLUMN

NOTES

1. SEE FOUNDATION PLAN FOR SIZE AND LOCATION OF UNDER FLOOR VENTS.

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FAX (909) 940-0427

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EXTERIOR ELEVATIONS W/O FASCIA

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KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
EXTERIOR ELEVATIONS (W/O FASCIA)

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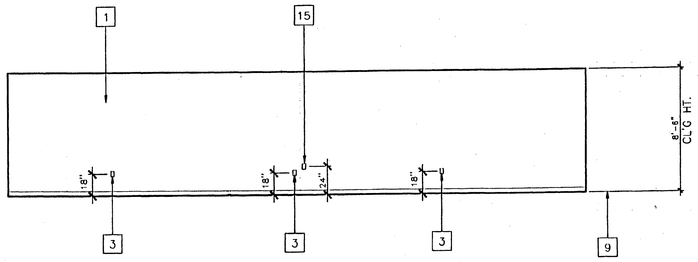
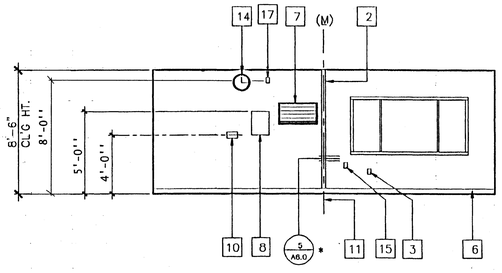


1 RIGHT ELEVATION



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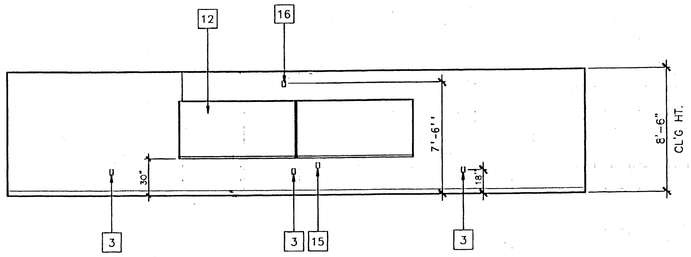

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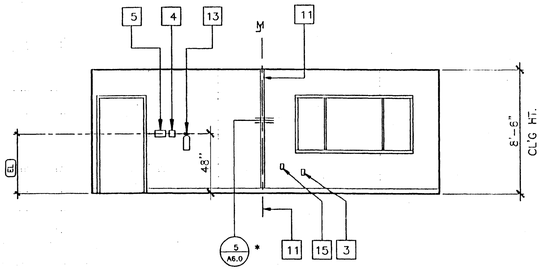

4 FRONT ELEVATION

"A" = SHOWN
"B" = OPPOSITE

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INTERIOR ELEVATIONS

24' X 40'

SCALE 1/4"=1'-0"

KEY NOTES

1. TYPICAL INTERIOR FINISH (SEE A5.0)
2. CLOSURE AT MODULAR JOINT
3. FOURPLEX WALL RECEPTACLE SEE EL
4. J BOX FOR INT FA PULLSTATION SEE EL
5. LIGHT SWITCH SEE EL
6. TOP SET BASE (TYPICAL) SEE FINISH SCHED.
7. RETURN AIR GRILL SEE HV
8. ELECTRICAL PANEL SEE EL
9. LINE OF FINISH FLOOR
10. THERMOSTAT SEE HV
11. MODULAR JOINT
12. 8040 MARKBOARD. TYPICAL FOR (2) SEE SPEC'S
13. FIRE EXTINGUISHER: 5LBS. DRY CHEMICAL WITH 2A-10BC U.L. RATING ON WALL MTD. BRACKET, HANDLE AT 48" A.F.F.
14. 12" DIA. ELECTRIC CLOCK. SEE EL
15. DATA J BOX SEE EL
16. INTRUSION ALARM J BOX SEE EL (OPTIONAL)
17. CO_2 SENSOR SEE HV BL

NOTES

1. FOR MOUNTING HEIGHTS SEE EL.
2. *DETAIL 5/A6.0 FOR WOOD STUDS. SEE ALT. DET. 5/A6.0M FOR USE WITH METAL STUDS.

REVISIONS

1		
2		
3		
4		
5		

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

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DATE OCT 25 1999

MODTECH INC.
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PROJECT NUMBER:

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INTERIOR ELEVATIONS

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ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

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FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
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DOOR SCHEDULE

DOORS							FRAMES					
DOOR NUMBER	FRAME OPENING SIZE	MATERIAL	TYPE	FIRE RATING	HARDWARE SET NO.	QUANTITY	MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	JAMB THROAT	NOTE NO.
1	3'-0" X 6'-8"	HM	A	NA	1		HM	7/A6.0	8/A6.0	1/A6.0	5-1/8"	

HM – HOLLOW METAL
AL – ALUMINUM
SST – STAINLESS STEEL
STL – STEEL
WWF – WINDOW WALL FRAME
SC – SOLID CORE WOOD
HC – HOLLOW CORE WOOD
SCL – SOLID CORE WOOD W/LAMINATED PLASTIC FACES

WINDOW SCHEDULE

AMT.	TYPE	WIDTH	HEIGHT	FINISH	WIN. NO.	GLASS TYPE
2	1	8'-0"	4'-0"	ANODIZED	A	EXTERIOR LITE - 3/16" MIN TEMPERED GLASS OR LAMINATED AS-1 LOW-E GLASS (CARDINAL GLASS COMPANY, LO-E² 172, OR EQUIVALENT)

ROOM FINISH SCHEDULE

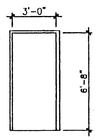
ROOM NUMBER	ROOM NAME	FINISHES: FLOOR	BASE	WALLS: FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HEIGHT	REMARKS
1	CLASSROOM	A	D	F	F	F	F	L	8'-6"	SEE SIGNAGE

A – CARPET PER STATE OF CALIF SPEC 7220-51E-04 COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600, DIRECT GLUE DOWN WITH 4" TOPSET BASE.
B – NOT USED
C – NOT USED
D – 4" BURKE
E – 6" BRIGANTINE OR SANDOVAL
F – 1/2" VINYL TACKBOARD CLASS-1 OVER 1/2" GYP. BOARD BACKING
G – 1/2" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH
H – 3/8" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH
~~I – 1/2" GYP. BOARD TAPE TEXTURE PAINTED WITH PAINTED FINISH~~
~~J – 3/8" GYP. BOARD TAPE TEXTURE PAINTED WITH PAINTED FINISH~~
~~K – 1/2" MARLITE OVER 1/2" W.R. GYP. BOARD~~
L – ACCOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATIONS)

NOTES

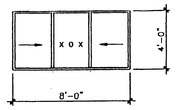
1. ALL FINISHES SHALL COMPLY WITH C.B.C. CHAPTERS 3,6,7,8, & 10 & C.F.C. & TITLE 19 C.C.R.
2. FOR DOOR AND DOOR FRAME DATA SEE SPECIFICATIONS ON SHEET A8.0.

DOOR ELEVATIONS



TYPE A

WINDOW ELEVATIONS



TYPE 1

DOOR NOTES

1. DOOR HANDLES FOR LOCKSETS TO BE CENTERED @ 38" AFF & DEADBOLTS @ 44" AFF.
2. HARDWARE TO BE OPENABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR.
3. ALL DOORS SHALL BE 1-3/4" THICK UNO
4. DOUBLE LETTERS IN SCHEDULE, INDICATES A PAIR OF DOORS.
5. SAFETY GLASS, CLEAR
6. WIRE GLASS
7. UNDERCUT DOOR
8. FIXED LOUVER
9. FUSIBLE LINK LOUVER
10. VISION PANEL
11. CLOSURE SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 8.5 LBS @ EXTERIOR DOORS AND 5.0 LBS @ INTERIOR DOORS.

WINDOW NOTES

1. 8040 XOX ANODIZED ALUMINUM GLAZING: EXTERIOR LITE 3/16" MIN. TEMPERED GLASS OF SOLAR GRAY WITH A LITE TRANSMISSION FACTOR OF 46%. 1/4" ALUMINUM SPACER. INTERIOR LITE – 1/8 MIN. CLEAR TEMPERED. ALL OPERABLE SASH SHALL HAVE ALUMINUM SSCREENS.

FINISH NOTES

1. SUB-FLOOR PREP:

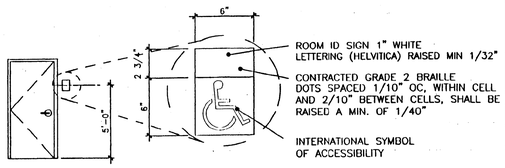
PREPARATION FOR SUB FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB FLOOR IS 2.4.1 PLYWOOD. OUTER PLY IS PLUGGED AND TOUCH SANDED, ANY DEFORMATIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTER. THE JOINT AT THE MODULEJOINING SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.

HARDWARE SCHEDULE

HARDWARE SET #1

LOCKSET	– SCHLAGE D70PD, RHODES LEVER, OR EQUAL
BUTTS	– 1-1/2 PAIR HAGER BB1191 4-1/2 x 4-1/2 NRP 26D OR EQUAL.
CLOSER	– NORTON 8500 DA / LCN 1460 OR EQUAL.
THRESHOLD	– PEMCO 271A OR EQUAL.
DOOR BOTTOM	– PEMCO 216AV OR EQUAL.
WEATHERSTRIP	– PEMCO 299AV OR EQUAL.
DOOR STOP	– QUALITY #44 OR EQUAL

ACCESSIBILITY SIGNAGE (BY DISTRICT)



ENTRY DOOR FROM EXTERIOR VIEW

LICENSED ARCHITECT FRED VINCENT MALLOCK No. C-24698 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

LICENSED ARCHITECT FRED VINCENT MALLOCK No. C-24698 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

PC
CBC 1998

04 103216 6/14/01

04 102490 AUG 21 2000

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5

Electrical Engineer's Seal

Mechanical Engineer's Seal

~~Structural Engineer's Seal~~
~~LICENSED ARCHITECT FRED VINCENT MALLOCK No. C-24698 10/31/01 RENEWAL DATE STATE OF CALIFORNIA~~

Architects Seal

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
101419
AC
DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 4/4/01
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MODTECH Index No.

SCHEDULE SHEET

A5.0

PROJECT NO. PC-04-101419

FILE PATH: 2440-0-A5-0.DWG

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HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
SCHEDULE SHEET

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 CLIENT PROJ NO: R221551X01

SHEET:

A5.0

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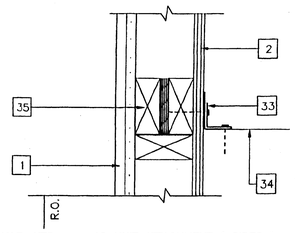

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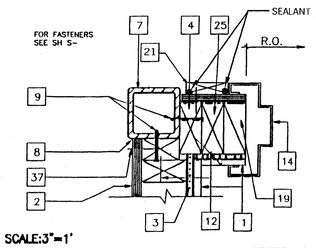
17 UNIT ATTACHMENT



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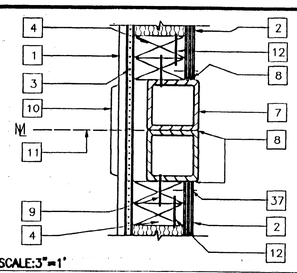
13 DOOR JAMB



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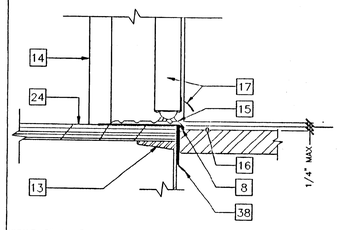
9 COLUMN • DODLINE



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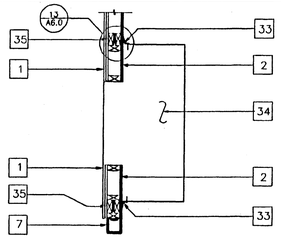
5 THRESHOLD

1



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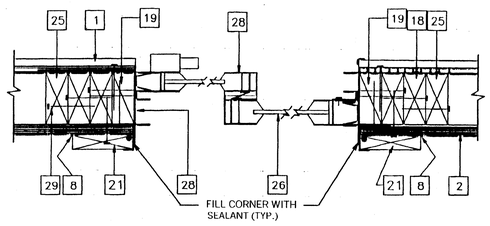
18 A.C. UNIT (PLAN)



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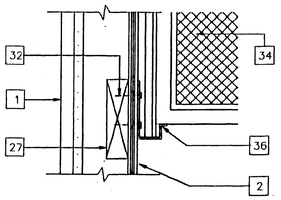
14 WINDOWS SECTION • JAMBS

6

2



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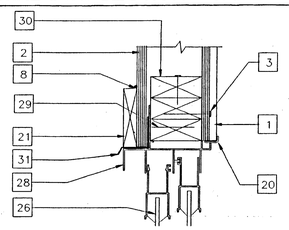

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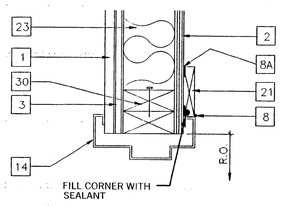
15 WINDOW HEADER



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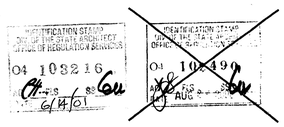
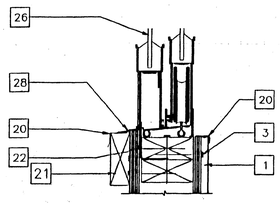
11 DOOR HEADER

7

3



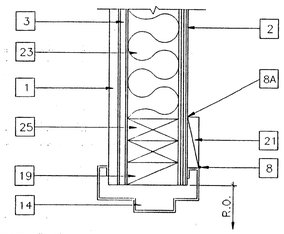


SCALE: 1-1/2"=1'

PC

CBC 1998

16 SILL PLATE



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12 DOOR JAMB

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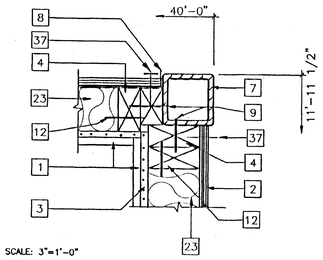

SCALE: 3"=1'-0"

CORNER COLUMN

4

KEY NOTES

1. TYP. INTERIOR FINISH (SEE FINISH SCHEDULE)
2. TYPICAL EXTERIOR FINISH
3. 1/2" GYPSUM BOARD BACKING W/ 7d COOLER NAILS AT MAX 7" O.C. TYP. AT EA. STUD
4. 2X4 STUD TYP. AT 16" O.C. MAX.
5. CORNER MOLD
6. 26GA SHEET METAL FLASH 2" X 4" X LENGTH
7. TUBE STEEL COLUMN SEE STR
8. SEALANT TYP. (SEE SPECS.) 8A SEALANT BEHIND TRIM
9. #10 S.T.S.M.S. AT MAX. 24" O.C, (ALT. HILTI 0.145 SHOT PIN) 2X FILLER TO COLUMN
10. VINYL CLOSURE
11. MODULE JOINT
12. 16d AT 24" O.C. FACE NAIL OR 16d AT 12" O.C. TOE NAIL (SEE SHEET S5.1)
13. FLOOR BEAM SEE STR
14. PRESSED STEEL FRAME (K.D. TYPE SEE A5.0)
15. ALUMINUM THRESHOLD (SEE HARDWARE SCHEDULE)
16. FINISH LANDING SEE FLOOR PLAN AND FOUNDATION FOR TYPE AND FINISH
17. DOOR AND DOOR BOTTOM (SEE HARDWARE SCHEDULE)
18. (2) 2X4 KING STUD (SEE SHEET S5.0)
19. 2X4 TRIMMER (SEE SHEET S5.0)
20. "Z" MOLD 26GA
21. 1X4 WOOD TRIM W/ 8d ELECTRO GALV. AT 12" O.C.
22. (2) 2X4 SILL PLATE W/ 16d AT 16" O.C.
23. INSULATION (SEE SPECS. FOR SIZE AND TYPE)
24. FINISH FLOORING (SEE FINISH SCHEDULE SHEET A5.0)
25. 2X4 JAMB STUDS (SEE SHEET S5.0) DETAILS FOR NUMBER OF STUDS REQUIRED AND NAILING SCHEDULE FOR NAILING
26. WINDOW GLAZING (SEE WINDOW SCHEDULE SHEET A5.0)
27. 2X6 LET IN (SEE WALL FRAMING SHEET S5.0)
28. ALUMINUM WINDOW FRAME WITH NAIL-ON FINISH. INSTALL W/ MIN. 3" BLDG. PAPER BETWEEN FINISH AND FRAMING. INSTALL WITH 8d AT MAX. 24" O.C.
29. 16d BOX STAGGERED AT MAX 24" O.C.
30. HEADER 12/S5.0
31. 26 GA DRIP FLASH
32. 6-3/8"ø X 2" GALVANIZED LAG SCREWS
33. L 1-1/2"x1-1/2"x1/8"x18" LONG (BY HVAC MFR.) ATTACHED TO A/C W/ 4-#10 SELF TAPPING SHEET METAL SCREWS AND ATTACH TO WALL W/ 3"ø X 2" GALVANIZED LAG SCREWS
34. SIDE OF HVAC UNIT SEE HV
35. (3) 2X4 W/ PLYWOOD SPACER- BUILT- UP POST. 8d AT O.C. STAGGERED SPACER TO FIRST 2X4 16d AT 12" O.C. SECOND 2X4 12d AT 12" O.C. STAGGERED THIRD 2X4 ALTERNATE USE 4X4 POST
36. 11GA. X24" STEEL SUPPORT BRACKET
37. EN - 8d BOX ELECTRO GALV. AT 6" O.C.
    FN - 8d BOX ELECTRO GALV. AT 12" O.C.
38. 26 GA GALVANIZED FLASH AT DOOR SILL

NOTES

1. EN 8d ELECTRO GALV. AT 6" O.C.
2. FN Ed ELECTRO GALV. AT 12" O.C.
3. SEE SHEET S5.0 FOR TYPICAL WALL FRAMING NAILING

INSULATION MATERIALS INSULATED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAWL SPACES, OR ATTICS SHALL HAVE A FLAMESPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450. EXCEPTIONS:
A: FOAM PLASTIC INSULATION SHALL COMPLY WITH SEC. 2602

B: WHEN MATERIALS ARE INSULATEDIN CONCEALED SPACES OF TYPES I, II, IV, AND V CONSTRUCTION, THE FLAME SPREAD AND SMOKE-DEVELOPED LIMITATIONS DO NOT APPLY TO FACINGS. IF THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR OR WALL FINISH. (SEC. 707.3 CBC)

FILE PATH: 2440-0-A6-0.DWG

PROJECT NO. PC- 2440-0

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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal — LICENSED ARCHITECT FRED WIRCSH HAMLOCK No. C-24658 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

Architects Seal

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MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

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ARCHITECTURAL DETAILS

A6.0

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HMC Architects

R221551X01

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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAY C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ARCHITECTURAL DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 CLIENT PROJ NO: R221551X01

SHEET:

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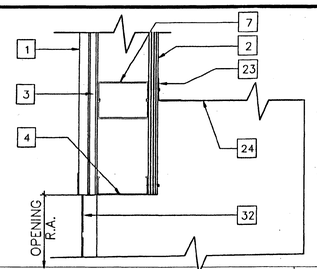

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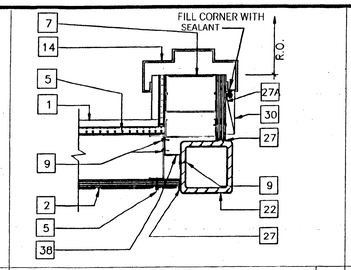

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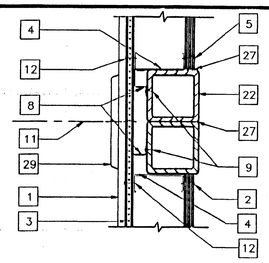

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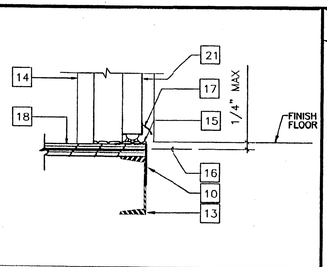

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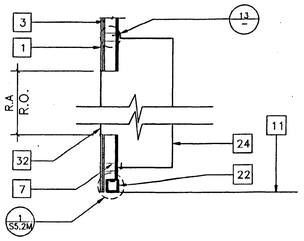

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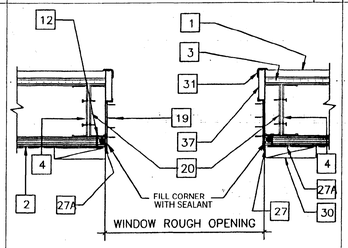

WINDOWS SECT. @ JAMBS 10

6

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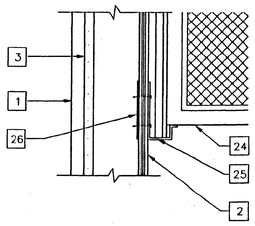

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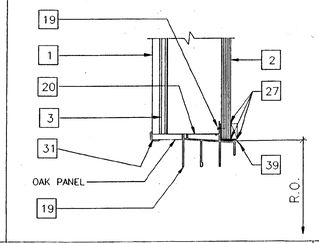

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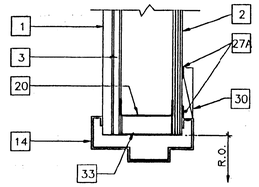
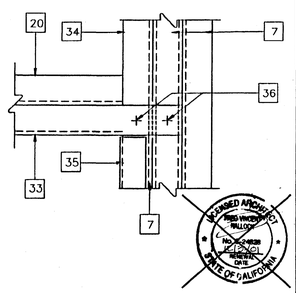


EXT. DOOR HEADER 7

INSULATION MATERIALS INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAWL SPACES, OR ATTICS SHALL HAVE A FLAMESPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450. EXCEPTIONS: 1. FOAM PLASTIC INSULATION SHALL COMPLY WITH SEC. 2602 2. WHEN MATERIALS ARE INSTALLED IN CONCEALED SPACES OF TYPES I, II, IV, AND V CONSTRUCTION, THE FLAME SPREAD AND SMOKE-DEVELOPED LIMITATIONS DO NOT APPLY TO FACINGS. IF THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR, OR WALL FINISH. (SEC. 707.3 CBC)

INSULATION SPECS 3



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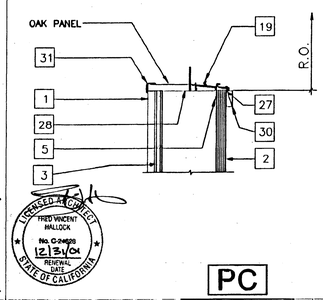

WINDOW SILL 12

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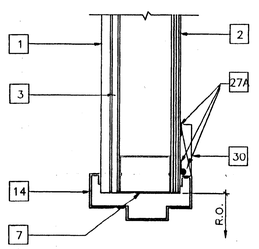
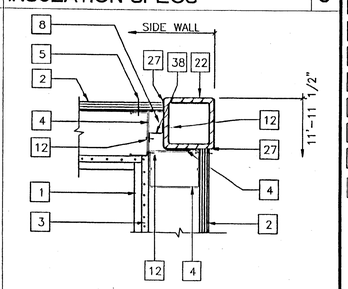
CBC 1998



EXTERIOR DOOR JAMB 8



CORNER COLUMN 4

KEY NOTES

1. TYP. INTERIOR FINISH (SEE FINISH SCHEDULE.)
2. TYP. EXTERIOR FINISH
3. 1/2" GYPSUM BOARD BACKING W/ TYPE 'S' DRYWALL SCREWS @ MAX. 12" O.C EN&FN
4. 1 1/2" X 3 1/2" X 20 GA. MT'L STUD (SEE SCHED. S5.1M)
5. EN #8 STSMS @ 6" O.C. (ZINC PLATED) STD. 25-17 – SEC. 25.1717(a). ALTERNATE FASTENER – BRICO AKNO.100
6. EN #8 STSMS @ 12" O.C. (ZINC PLATED) STD. 25-17 – SEC. 25.1717(a). ALTERNATE FASTENER – BRICO AKNO.100
7. JAMB STUDS (SEE SCHEDULE S5.1/M) & 5/S5.1M
8. S.M. WALL ATTACHMENT (SEE 2/S5.1M)
9. #10 S.T.S.M.S. @ MAX. 24" O.C.
10. SHEET METAL FLASHING 4" X 2" X 26 GA.
11. MODULE JOINT
12. #6 STSMS @ 24" O.C.
13. FLOOR BEAM (SEE STRUCTURAL)
14. PRESSED H.M. ST'L FRAME (SEE A5.0)
15. ALUMINUM THRESHOLD (SEE HARDWARE SCHEDULE)
16. FINISH LANDING SEE FLOOR PLAN & FOUNDATION FOR TYPE AND FINISH
17. DOOR BOTTOM (SEE HARDWARE SCHEDULE)
18. FINISH FLOORING (SEE FINISH SCHEDULE A5.0)
19. ALUMINUM WINDOW FRAME W/NAIL ON FIN INSTALL W/MIN. 3" BLDG. PAPER SHINGLE FASHION & #6 STSMS @ 24" O.C.
20. HEADER TRACK (SEE SCHEDULE S5.1M))
21. DOOR (SEE DOOR SCHEDULE)
22. ST'L TUBE COLUMN (SEE S3.0)
23. (3) 3/8"ø X 2 1/2" LAG SCREWS TO BLD'G FRAME PER MOUNTING BRACKET. 3 BRACKETS TOTAL = 9 LAGS TOTAL PER MANUFACTURERS RECOMMENDATIONS
24. H.V.A.C. UNIT (SEE SHT M-1)
25. 11GA. X24" SUPPORT BRACKET BY HVAC MFG. ATTACH TO WALL W/6-#12 STSMS
26. 20 GA. X 4" LONG S.M. STRAP SEE DETAIL 14 ON SHT. S5.0M
27. SEALANT TYP. (SEE SPEC'S)
27A. SEALANT BEHIND TRIM
28. SILL TRACK (SEE SCHEDULE S5.1M)
29. VINYL CLOSURE
30. 1"X4" WD. TRIM W/#8 STSMS @ 12" O.C. (ZINC PLATED) KBRF SAWN
31. CORNER MOLDING
32. RETURN AIR GRILLE
33. HEADER
34. CRIPPLE
35. TRIMMER STUD TRACK COVER
36. #6 S.T.S.M.S.
37. PREFINISH PANEL W/ PREFINISH TRIM
38. 20 GA. ⊤ CONT.
37. 26 GA GALVANIZED DRIP FLASH

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102216 AC PCS 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102490 AC FLS DATE AUG

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS KS DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
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PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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MODTECH Index No.

ARCHITECTURAL DETAILS

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PROJECT NO. PC-04-101419

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ARCHITECTURAL DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

A.60M

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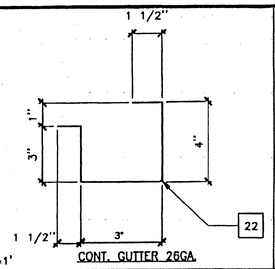
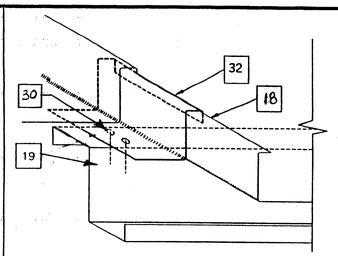
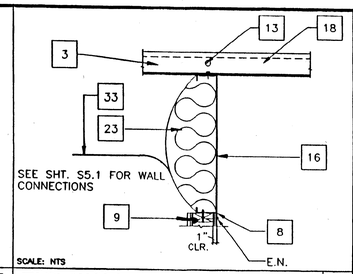


SCALE: 3"=1'

17 | 13 | CONT. GUTTER AND CLOSURE | 9



ROOF STANDING SEAM | 5



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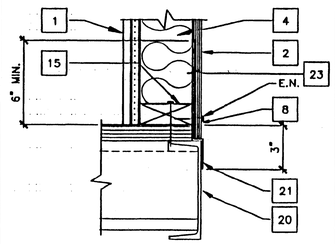
END WALL AT ROOF | 1

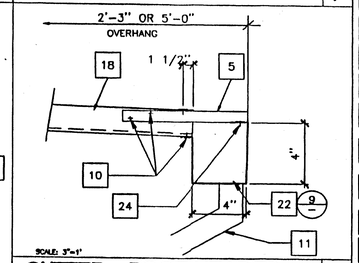
18 | 14 | 10



NOTE: FLASHING AS SHOWN SUPPLIED BY MODTECH. SEE NOTE #21 ANY OTHER FLASHING OR EXTENSION IS THE RESPONSIBILITY OF THE SITE CONTRACTOR OR SCHOOL DISTRICT

SCALE: 3"=1'

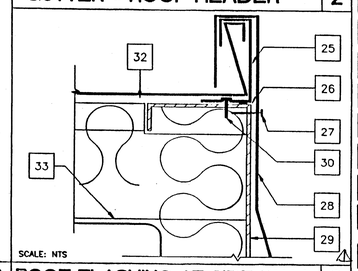
TYPICAL SILL • FLOOR | 6



SCALE: 3"=1'

GUTTER • ROOF HEADER | 2

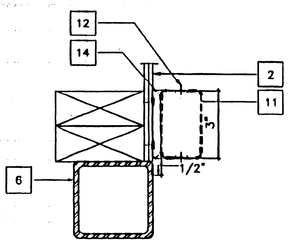
19 | 15 | 11



SCALE: NTS

ROOF FLASHING AT SIDE WALL | 3

20 | 16 | PC | CBC 1998 | 12



SCALE: 4"=1'

DOWNSPOUT ATTACHMENT | 8

4

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102216 FLS 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102490 AC FLS SS DATE AUG 24 2000

KEY NOTES

1. TYP. INTERIOR FINISH
2. TYP. EXTERIOR FINISH
3. #14STSMS X 3/4" W/NEO WASHER 3 PER PAN MAX 6" O.C.
4. 2X4 STUD TYP. 16" O.C.
5. 1 1/2"X1 1/2" X 22GA ∠ CLIP AT 32" O.C.
6. TUBE STEEL SEE STR
7. 1 1/2"X1 1/2" X 20GA COPED ANGLE W/2 #10 STSMS TO PURLIN (TYP) AT 8'-0" O.C.
8. SEALANT TYP. (SEE SPECIFICATIONS)
9. EXTERIOR WALL (SEE S5.1 FOR CONNECTIONS)
10. #14 STSMS AT EA STANDING RIB (16" OC)
11. DOWNSPOUT
12. #8 STSMS– 1 AT EA SIDE OF DOWNSPOUT TO BRACKET
13. (1) – #14 STSMS W/NEOPRENE WASHER THROUGH RIB
14. ATTACHMENT BRACKET(TYP 3 PLACES: TOP, BOTTOM & MIDSPAN W/ 2–#10 STSMS, BRACKET TO STUD)
15. 2 X 4 SILL PLATE PER 4/S5.1
16. ROOF HEADER SEE STR
17. GI FLASHING 22GA
18. STANDING SEAM ROOF (SEE A2.0 FOR GA.)
19. ROOF PURLIN SEE STR
20. FLOOR BEAM SEE STR
21. 22GA GALV. FLASHING (AT BELOW GRADE CONC. FOUNDATION ONLY)
22. CONTINUOUS 26GA. GUTTER (SEE 9/A6.1)
23. INSULATION (SEE SPECS FOR TYPE AND SIZE)
24. #14 STSMS AT EACH CLIP (32" O.C.)
25. 22 GA STARTER/END ROOF CLIP–3/A6.1
26. 1/4" CONTINUOUS BEAD OF SEALANT AROUND ENTIRE PERIMETER OF FRAME
27. #10x3/4" STSMS THRU FLASHING INTO ROOF BEAM W/ NEOPRENE WASHER– 24" OC
28. 26 GA GALVANIZED IRON FLASHING AT SIDE WALL
29. C 14x12 GA HEADER
30. (2) AKN .144 KNURLED DRIVE PINS–ROOF CLIP TO PURLIN ROOF BEAM OR HEADER
31. 6"x2 1/2"x14 GA ROOF PURLIN SEE PLAN FOR SPACING
32. 22 GA STARTER/END ROOF CLIP
33. PROVIDE VAPOR BARRIER OVER INSULATION AT ROOF BEAMS AND CEILING

REVISIONS

1	12/8/99	UPDATE CLIP DETAIL	SS
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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC OCT 25 1999

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PROJECT NUMBER:

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ARCHITECTURAL DETAILS

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PROJECT NO. PC-04-101419

AGENCY APPROVAL:

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

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KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ARCHITECTURAL DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

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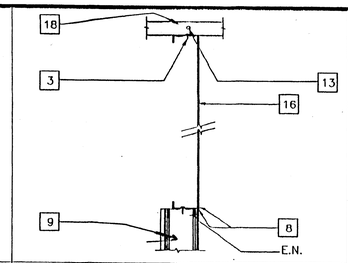
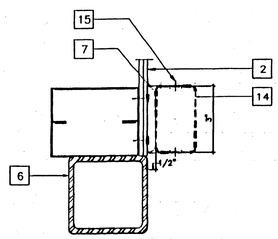
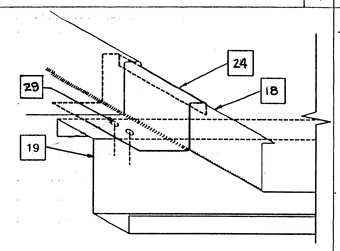


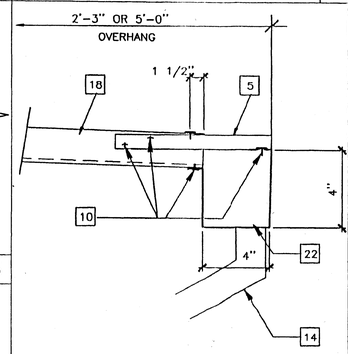
4 END WALL @ ROOF 1



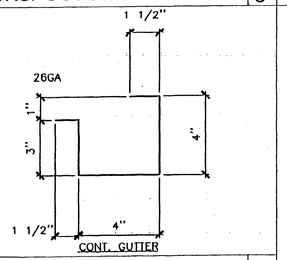
7 DOWNSPOUT ATTACHMENT 8



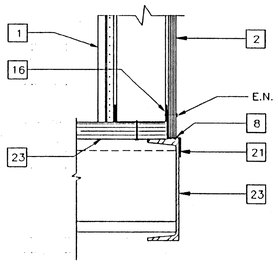
ROOF STANDING SEAM 5



GUTTER @ ROOF HEADER 2



CONT. GUTTER/CLOSURE 9



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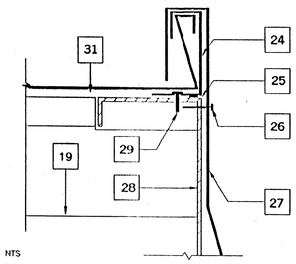

SCALE: NTS

ROOF FLASHING AT SIDE WALL 3

SECTION @ FLOOR FRAME 6

PC

CBC 1998

REVISED DEC 9 1999

KEY NOTES

1. TYP. INTERIOR FINISH (SEE FINISH SCHED.)
2. TYP. EXTERIOR FINISH
3. #14 STSMS X 3/4" W/NEOPRENE WASHER 3 PER PAN MAX.. 6" O.C.
4. 20 GA X 3 1/2" MT'L STUD @ 16" O.C.
5. 1 1/2X1 1/2X22GA ∠ CLIP @ 32" O.C.
6. TUBE STEEL COLUMN (SEE STRUCTURAL)
7. ATTACHMENT BRACKET(TYP-3 PLACES/TOP, BOTTOM & MIDSPAN) W/2-#10 STSMS. BRACKET TO STUD
8. SEALANT TYP. (SEE SPECIFICATIONS)
9. EXTERIOR WALL (SEE S5.2 FOR CONNECTIONS)
10. #14 STSMS @ EA STANDING RIB (16" O.C.)
11. ROOF BEAM (SEE STRUCTURAL)
12. 1 1/2X1 1/2X20GA COPED ANGLE W/2-#10 STSMS TO PURLIN (TYP) @ 8'-0" O.C.
13. 1-#14 X 3/4" STSMS W/NEOPRENE WASHER THRU RIB
14. DOWNSPOUT
15. #8 STSMS 1 @ EA SIDE OF DOWNSPOUT TO BRACKET
16. ROOF HEADER (SEE STRUCTURAL)
17. G.I. FLASHING 26GA
18. STANDING SEAM ROOF (SEE A2.0 FOR GA)
19. ROOF PURLIN (SEE STRUCTURAL)
20. CONT. SILL TRACK
21. 26GA GALV. FLASHING (ONLY AT BELOW GRADE CONC. FOUNDATIONO (Z FLASH)
22. CONTINUOUS 26GA GUTTER (SEE 9/A6.1)
23. FLOOR BEAM (SEE STRUCTURAL)
24. 22 GA STARTER/END ROOF CLIP-3/A6.1
25. 1/4" CONTINUOUS BEAD OF SEALANT AROUND ENTIRE PERIMETER OF FRAME
26. #10x3/4" STSMS THRU FLASHING INTO ROOF BEAM W/ NEOPRENE WASHER-24" OC
27. 26 GA GALVANIZED IRON FLASHING AT SIDE WALL
28. C 14x12 GA HEADER
29. (2) AKN .144 KNURLED DRIVE PINS-ROOF CLIP TO PURLIN ROOF BEAM OR HEADER
30. 6"x2 1/2"x14 GA ROOF PURLIN SEE PLAN FOR SPACING
31. 22 GA STANDING SEAM ROOF PAN

APPLICATION STATUS DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04 102216
6/17/01

DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
ID: 102499
AC FLS TS
DATE

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC-04
101419
AC FLS TS
DATE OCT 2 5 1999

MODTECH INC.
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FAX (909) 940-0427

PROJECT NUMBER:

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916 368 7990 / www.hmcarchitects.com

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NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ARCHITECTURAL DETAILS

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DATE: 10/26/23 CLIENT PROJ NO: R221551X01

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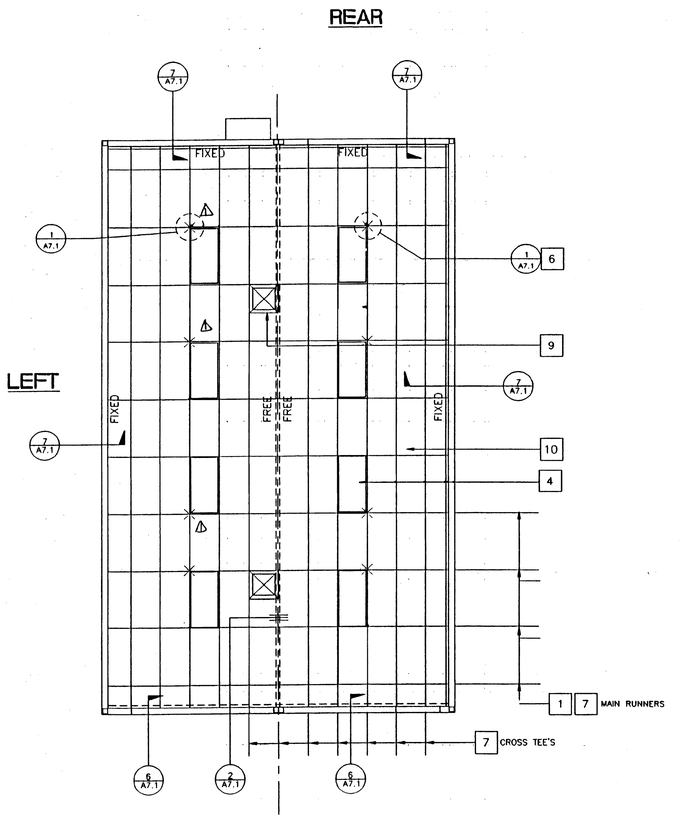

KEY NOTES

1. MAIN RUNNERS @ 4'-0" W/12GA. HANGER WIRES @ END OF EACH RUNNER.
2. AT THE END OF ROWS OF RUNNERS A 12GA. HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF WALL OR SOFFIT.
3. VERTICAL WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTERBRACING WIRES.
4. PROVIDE 2-12GA. SLACK WIRES TO HOUSING OF ALL LIGHT FIXTURES AT DIAGONAL CORNERS. WIRES SHALL BE ATTACHED TO STRUCTURE OF LIGHT FIXTURES: 2 X 4 RECESSED. ATTACH FIXTURE TO GRID W/1-#8 SHEET METAL SCREW AT EACH CORNER.
5. RUNNERS MAY BE ATTACHED TO WALLS OR MOLD AT 2-ADJACENT WALLS, OTHER WALLS NO ATTACHMENT. CLEARANCE OF 1/2" BETWEEN END OF RUNNERS AND FACE OF WALL.
6. CEILING AREAS SHALL HAVE 2/4-WAY SPLAYS PER DETAIL 1 ON SHEET A7.1 IN LOCATIONS INDICATED ON DRAWINGS. WIRES TAUT BUT NOT TO DISTORT GRID.
7. T-BAR PART NUMBERS

	ARMSTRONG PA-041		
RUNNER MAIN	7301D		
4' CROSS TEE	7343		
2' CROSS TEE	7328		
WALL ANGLE	7800D		

8. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES.
9. REGISTERS SHALL BE POSITIVELY ATTACHED W/4-10GA. SHEET METAL SCREWS. (TYP. 1- @ EA. CORNER) **PROVIDE SLACK SAFETY WIRES AT ALL HVAC REGISTERS**
10. CEILING PANELS: 2 X 4 LAY-IN PANELS. ASTM FLAME SPREAD CLASS 1 (0-25). FLAME SPREAD SMOKE DEVELOPMENT DENSITY LESS THAN 450 (TYP.)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 108216 AC FLS DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 108490 AC FLS DATE AUG 29 2000

LEGEND

- T & T BAR CEILING
- 2'X 4' ELEC. FIXTURE RECESSED
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- SPLAY WIRE 4 WAY
- INDICATES FIXED SIDE (SEE DETAIL 7/A7.1)
- INDICATES FREE SIDE (SEE DETAIL 6/A7.1)

REFLECTED CEILING PLAN (24'X40')

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

LICENSED ARCHITECT FRED MORRANO HALLOCK No. C-24628 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

LICENSED ARCHITECT FRED VINCENT HALLOCK No. C-24628 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

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CBC 1998

DEC 9 1999

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LICENSED ARCHITECT FRED VINCENT HALLOCK No. C-24628 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

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FAX (909) 940-0427

PROJECT NUMBER:

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MODTECH Index No.

REFLECTED CEILING PLAN 18 LIGHTS

A7.01

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KEYNOTES

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FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
REFLECTED CEILING PLAN (18 LIGHTS)

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A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

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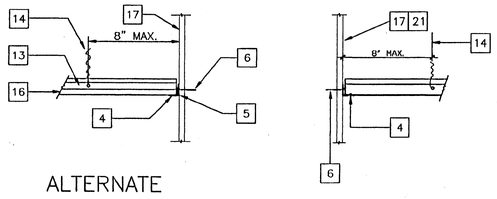

TYPICAL FIXED SIDE

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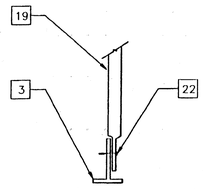
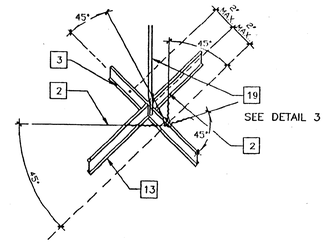


NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION

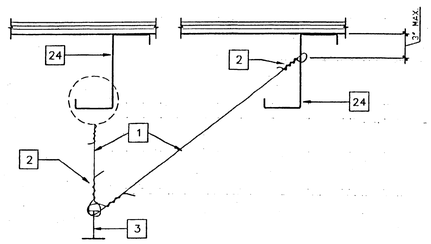
ALT. CONN. AT BOTTOM

4



SIESMIC SPLAY - 4 WAY

1



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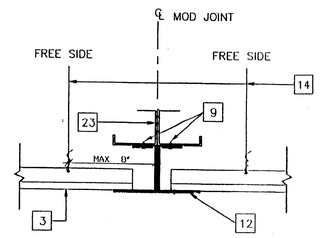
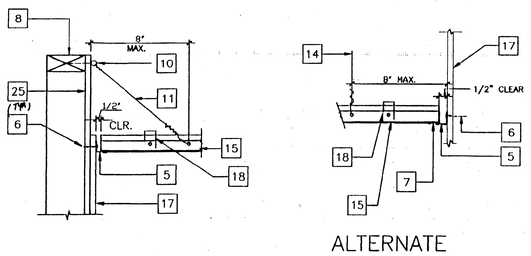


NOTE: LAY-IN CEILING TILE NOT SHOWN FOR CLARITY.

SCALE 3"=1'

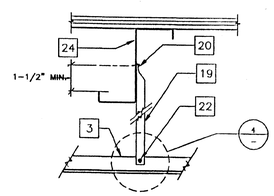
GRID AT MOD LINE

2



TYPICAL FREE SIDE

6



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR DEPENDING UPON CONDITION & LOCATION

3

KEY NOTES

1. 12GA. HANGER OR DIAGONAL SPLAY WIRE IN PUNCHED OR DRILLED HOLE
2. 12GA. WIRE WITH 4 WRAPS IN 1 1/2" (TYP.) WIRE TO RUN PERPENDICULAR TO MAIN TEE
3. MAIN RUNNER
4. 1/8"ø POP RIVET TO EACH T-BAR
5. WALL ANGLE
6. 6d 16" @ FRAMING TO WALL STUD #8 S.T.S.M.S. WHEN METAL STUDS ARE USED
7. ANGLE WITH 1/8"ø POP RIVET TO EACH T-BAR NO CONNECTION TO WALL ANGLE
8. TOP PLATE
9. #10 S.T.S.M.S. @ 4' O.C.
10. 3" X 1/4" EYED SCREW. 1/8"ø X 2" JIF-E SCREW WHEN METAL STUDS ARE USED
11. HANGER TO WALL WHERE NO RAFTER ABOVE MAX SLOPE 1" IN 6"
12. 28 GA. JETCOAT
13. CROSS TEE
14. 12GA. HANGER WIRE AT THE END ON EACH RUNNER MIN. 4 WRAPS IN MAX 1 1/2" – SEE DETAIL #5 FOR WIRE TO PURLIN ATTACHMENT
15. MAIN RUNNERS OR CROSS TEES
16. ACOUSTICAL BOARD
17. FINISH WALL
18. HORIZONTAL STRUTS SHALL RUN CONTINUOUS AT ALL PERIMETERS, NOT POP RIVETED TO THE WALL ANGLE ARMSTRONG #7425 OR #7445 WITH SPRING STEEL SNAP TO RUNNER PER IR 47-4
19. 3/4" EMT CONDUIT – MAX 5'-2" (COMPRESSION STRUT)
20. CRIMP CONDUIT AND ATTACH TO RAFTER WITH (2) #8 TEK SCREW
21. PROVIDE SPACE AT ALL MEMBERS AT OPPOSITE WALL
22. CRIMP CONDUIT AND ATTACH TO T-BAR GRID WITH #8 TEK SCREW
23. ROOF BEAM SEE STR
24. ROOF PURLIN SEE STR
25. RUN GYP BOARD TO TOP PLATE FOR FIRE BLOCKING

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REVISIONS		
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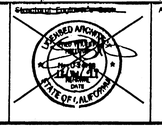
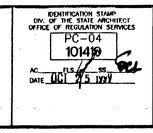
Electrical Engineer's Seal

Mechanical Engineer's Seal

~~Structural Engineer's Seal~~



Architects Seal



MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 4/4/01
CHECKED BY: DATE: 10/22/99
MODTECH Index No.

REFLECTED CEILING DETAILS

A7.1

PC- 04-101419 PROJECT NO.

FILE PATH: 2440-0-A7-1.DWG

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects

R221551X01

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
REFLECTED CEILING DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 CLIENT PROJ NO: R221551X01

SHEET:

A7.1

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STATE OF CALIFORNIA

5410-OBS-028

Bid Specification

MARCH 2000

Building, Classroom, Prefabricated, Relocatable
(General Requirements)

Office of Public School Construction (OPSC)

1.0 SCOPE: This specification establishes the general requirements for a prefabricated, relocatable clear span, 2-module classroom building. The building shall be installed on assigned site within the State of California, complete and ready for use. All costs of transportation and installation at the site, together with snow load and wind load requirements shall be included in the bid price. All of the provisions of this specification shall apply except as indicated in the Invitation for Bid (IFB). Not in Contract: The electrical service drop and connection will be supplied by others. The school district will prepare a location on the school site that is cleared and graded. The elevation on the short axis of the 30' x 50' pad will be level. The long axis may be a maximum of 9" from level grade (diagonally).

Definitions:

Agency: The Department of General Services
Agency Architect: Consulting architect retained by the Office of Public School Construction (OPSC). Contact OPSC at (916) 445-3160 for name and address
Contractor: The company responsible for performance on the purchase order (contract) issued by the State. May be the same as the manufacturer
Manufacturer: The company who manufactures the modules. May be the same as the Contractor
OPSC: Office of Public School Construction, Department of General Services, State of California
PD: Procurement Division, Department of General Services, State of California
DSA: Division of the State Architect, Department of General Services, State of California
Owner: OPSC
IFB: Invitation for Bid

2.0 SPECIFICATION AND STANDARDS: Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid form a part of this specification where referenced

2.1 SUBSTITUTIONS: All substitutions for specified items must be approved in writing in advance by PD and OPSC.

3.0 REQUIREMENTS:

3.1 Dimensions: Building shall consist of two modules designed so that the modules may be joined together to form a complete structure that maintains a positive alignment of floors, walls, and roof and that permits simple non-destructive detachment for future relocation. The building shall occupy an area of 960 square feet with a tolerance of minus 5 square feet. The buildings shall be 24' x 40'. All buildings shall meet the square footage requirement. Linear dimensions shall be vertical trim finish line to vertical trim finish line. Fascia and required overhangs are not included in the calculation of the area the building occupies. The entrance wall shall have a minimum 5'-0" roof overhang. The rear wall shall have a minimum 2' overhang except over rear landings where it shall be minimum 5'-0". Full length gutters and downspouts shall be furnished on the sides of each overhang and each roof edge where drainage occurs. The interior height, floor to ceiling shall be minimum 8'-6". Nothing shall protrude more than 1" below the ceiling level.

3.2 Load Criteria:

3.2.1 Modules intended for delivery to locations requiring roof live loads or wind loads greater than the minimums required by Title 24, California Code of Regulations (C.C.R.) shall meet the live load criteria established by the IFB. Building shall be clear span type except where roof live loads are 60 pounds or greater, where one column may be included in their design. All buildings must be designed to meet exposure "C" rating (Title 24) and seismic Zone 4.

3.2.2 Each module shall be capable of resisting all vertical and lateral loads during transportation and relocation. Normal industry practice for bracing modules during transportation and relocation is acceptable. When modules are assembled, joints shall be sealed with removable closing strips or another equivalent method to present a finished appearance and be permanently weatherproof. Each 12' x 40' module shall be sufficiently rigid to be jacked up at the front and back corners for relocation without damage or the module shall have lifting lugs at front and back located as required so that the module may be jacked up for relocation in one piece without additional supports of any type. Evidence of excessive bowing during the installation of the modules which, in the opinion of the Agency Architect or Structural Engineer, causes excessive working at any joint or compromises the structural integrity of the module shall be sufficient reason for rejection of the module.

3.3 Foundations:

3.3.1 All structural members below the subfloor, i.e., girders, joists, headers, blocking, shall be either steel or wood. If wood, it shall be pressure treated as specified below. Markings shall be legible on each pressure treated structural member or certification of treatment shall be supplied for each bundle

3.3.2 All wood foundation materials below subfloor shall be pressure treated Douglas fir, except shims may be redwood or cedar. The building(s) shall be set on pressure treated Douglas fir (PTDF) plywood or pads and PTDF blocks. Pressure treated Douglas fir pads, plywood, etc., shall be verified by a Certificate of Treatment stating, "the material in this unit was treated per Uniform Building Code Standard Section 25-12".

3.3.3 All lumber and plywood for use in ground contact shall be pressure treated with waterborne preservative in accordance with American Wood Preservers' Association (AWPA) Standard C2 (Lumber, Timbers, Bridge Ties and Mine Ties -Preservative Treatment by Pressure Process) or C9 (Plywood - Preservative Treatment by Pressure Process), inspected in accordance with American Wood Preservers' Bureau (AWPB) Procedure LP-22 (Quality Control and Inspection Procedures for Softwood Lumber, Timber, and Plywood Pressure Treated with Waterborne Preservatives for Ground Contact), and stamped with AWPB quality mark "Ground Contact LP-22"

3.3.4 All lumber and plywood not used in ground contact shall be pressure treated with waterborne preservative in accordance with AWPA Standard C2 or C9, inspected in accordance with AWPB Procedure LP-2 (Quality Control and Inspection Procedures for Softwood Lumber, Timber, and Plywood Treated with Waterborne Preservatives for Above Ground Use), and stamped with AWPB quality mark "Above Ground LP-2"

3.3.5 The in-plant inspector shall verify that all pressure treated foundation material is cut from AWPB stamped stock and that all cuts and holes are retreated per specifications. LP-2 and LP-22 material shall be banded separately for shipment to the job site. The in-plant inspector's verification of each banded unit shall be attached to the material

3.3.6 Concrete or concrete block foundations are not allowed. The footing design shall provide for shims and blocks necessary to permit installation on sites not level, but within the tolerance allowed in Section 1.

3.3.7 Installation shall be permitted on soil, concrete or asphalt concrete paving, having suitable design bearing capacity. The buildings shall be securely fastened to the foundations. The foundations and the method of fastening shall be subject to approval by the Agency Architect and DSA. Pads shall be designed for a maximum load of 1000 PSF. Pads shall not be placed on turf

3.4 Framing:

3.4.1 Steel frames and steel studs on maximum 16" centers are acceptable. Wood construction and roof and floor sheathing shall meet the following minimum requirements

Roof:

Beam - Press formed tapered cee Roof Beam
14"/19" x 3 5/8" x 10 gauge
Header - Press formed Cee
14" x 3 1/2" x 12 gauge (Dual Slope Roof)
24" x 3 1/2" x 12 gauge (Mono Slope Roof)
Purlins - 6" x 2 1/2" x 14 gauge 'Z' at 48" o.c.
(Optional 4 1/2" x 2 1/2" x 12 gauge 'Z' or 4" x 3" x 12 gauge Cee.)
Plywood Sheathing - 3/4" C-D Plywood, Exposure 1, Rated Sheathing, 48/24 span index, square edge, per PSI 1-95.
Roof Sheathing to be attached to steel purlins per drawings.

LICENSED ARCHITECT FRED VINCENT HALLOCK No. C-24628 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

Wall Framing Studs:

Studs - Douglas Fir/~~Larch or Hem Fir Stud Grade or better.~~ NO 2 GRADE
Sill - Douglas Fir/~~Larch of Hem Fir standard or better.~~ NO. 2 GRADE
Top Plate - Douglas Fir/Larch ~~or Hem Fir Stud Grade or better~~ NO. 2 GRADE
Headers - Douglas Fir/Larch ~~or Hem Fir as noted on drawings.~~ NO. 2 GRADE
min. 2-2x4 on edge with 1/2" apa rated plywood Exposure 1 filler.
Blocking - Douglas Fir/Larch or Hem Fir standard or better.
Fire Blocking Per Title 24, California Building Code, Section 708.

Wall Framing (Optional Steel Studs):

Studs - Roll formed Cee 3 1/2" x 1 1/2" x 20 ga. with 1 1/2" diameter knock-outs at 2'-0" o.c.
Track - Press formed Cee 3 9/16" x 1 1/2" x 20 ga.
Blocking - 3" x 16 gauge steel strap.

Floor:

Perimeter Channel - 7" x 9.8 lb. steel 'C' channel, ASTM A-36.
Joists - 6 3/8" x 2 1/2" x 12 gauge 'C' or equal.
Plywood - 1 1/8" Thick Subfloor/Underlayment panel, 48" span rating, T&G, Exposure 1, APA Sturd-I-floor of TECO Floor Span.
Subfloor to be attached to steel floor joists per drawings.

Columns:

TS 3 1/2" x 3 1/2" x 1/4", ASTM A-500, Grade B.

3.4.2 Moisture content of framing lumber shall not exceed 19%. Framing lumber shall be stamped "S-Dry" or "MC15"

3.4.3 MSR 1650 E1 6 may be substituted for No. 2 grade if it meets the structural requirements for floor and roof members

3.4.4 Lumber grades and machine stress-rated (MSR) lumber requirements are defined in Standard Grading Rules for Western Lumber, latest edition

3.5 Exterior

3.5.1 Siding: Exterior siding shall be medium density overlay plywood (MDO) or Duratemp plywood siding produced by Miller Redwood Company. PD must approve alternate sidings prior to submittal of bid. The medium density overly plywood shall be APA rated exterior type per APA 303-O/L. MDO siding shall be Simpson "Guardian", K-Ply "Royal Rough Sawn", or equivalent approved in advance and in writing by PD. The Duratemp plywood siding shall consist of 4 layers of wood veneers and a textured oil-tempered 1/8" thick hardboard face. Product shall be APA rated exterior type. Both the MDO and Duratemp siding shall meet the following requirements

A. Each panel shall be identified with the grade mark of the grading association and shall meet the requirements of Product Standard PS 1-83.

B. Siding shall be 19/32" (minimum) thick x 4' x 8' minimum with shiplap at long edges and of one of the following styles: plain, V-grooved, grooved or reverse board and batten.

C. All panel edges and ends shall be sealed with a heavy coat of high grade exterior house primer or an aluminum primer formulated for wood before installation. All horizontal joints in siding and between skirting and siding must be flush and protected with a galvanized iron "Z" type flashing. All vertical shiplapped joints shall have 1/16" clearance between panels. A 3d or 4d galvanized finish nail may be used as a gauge between panels and left in place

3.5.2 Moisture Barrier: All weather-exposed surfaces shall have a weather-resistive barrier to protect the interior wall covering. Such barrier protection shall be equal to that provided for in U.B.C. Standard No. 17-1 for kraft waterproof building paper or U.B.C. Standard No. 32-1 for asphalt-saturated rag felt. Barrier shall be free from holes and breaks other than those created by fasteners and construction system due to attaching of the building paper, and shall be applied over studs or sheathing of all exterior walls. Barrier shall be applied weatherboard fashion, lapped not less than 2 inches at horizontal joints and not less than 6 inches at vertical joints, including corners. Moisture barrier as described above shall not be applied to Type III (Snow Load) buildings.

3.5.3 Exterior Trim. All windows, corners, and door openings shall receive trim of at least 1" x 4" size. The roof edge shall receive at least 2" x 6" size. The trim shall be rough or resawn D select Douglas fir, Hem-fir, or spruce. Trim shall be sealed at all edges with polyurethane based one part (no mixing required) caulking, Vulkum or Sikaflex brands or equivalent approved in advance and in writing by PD. Caulking shall be painted to match siding or trim color unless it is the transparent type. At roof edge only, 7/16" thick minimum embossed weatherboard siding with MDO surface may be used in lieu of 2" x 6". Back of trim and fascia shall be kirf sawn to prevent cupping. At roof edge and building corners only, exposed steel roof beams and columns are acceptable in lieu of wood trim.

3.5.4 Skirting: Skirting shall be the same thickness and type of plywood used for siding except that plain ungrooved material shall be used where the long direction of the sheet runs horizontal. If grooved plywood is used for skirting, the grooves shall match and line up with the grooves in the siding. All edges and the bottom of the skirting shall be supported and the entire space below the building shall be closed off. Minimum 1-1/2" clearance shall be maintained from the bottom of plywood skirting to finish grade. Skirting shall not be nailed to ends of boards or edges of plywood. Minimum 18 gauge expanded galvanized metal fresh air vents or approved vandal resistant equal with a minimum net area of 7.5 square feet shall be provided.

3.5.5 Doors and Frames:

3.5.5.1 Doors and frames shall meet the requirements of ANSI (American National Standards Institute)/SDI-100-91 (Recommended Specifications-Standard Doors and Frames) for heavy duty full flush type (Grade II, Model 1). Doors and frames shall be provided by one manufacturer and primed and finished at the manufacturer's facilities.

3.5.5.2 Doors shall be swing out type, 1-3/4" thick, fully insulated, minimum R-14 polyurethane core, with minimum 18 gauge steel face sheets. Doors shall be factory prepared and reinforced for indicated finish hardware, including reinforcement on both faces for closers. One complete coat of metal primer shall be applied in the door manufacturer's shop after doors are chemically treated for paint adhesion.

3.5.5.3 Frames shall be pressed steel, knock down or welded type. Thickness of metal shall be minimum 16 gauge with depth to suit wall thickness. A minimum of 3 concealed anchors per jamb and adjustable floor anchor at bottom of each jamb shall be provided. Frames shall be prepared and reinforced for required hardware, including strike box and reinforcement for closers. Metal frame cavity shall be completely filled with insulation. One complete coat of metal primer shall be applied in the door manufacturer's shop after frames are chemically treated for paint adhesion.

3.5.5.4 Size and number of hinges shall be as recommended by door manufacturer. Hinges shall be full mortise type; solid brass or bronze, with set screw in barrel and minimum of two ball bearings. A Stanley FBB191, Hager, or equivalent approved in advance and in writing by PD and OPSC may be used.

3.5.5.5 A closer shall be provided that is recommended by manufacturer for door size. Closer shall be Norton series 8500DA, LCN 1460 DEL or equivalent approved in advance and in writing by PD & OPSC

3.5.5.6 A classroom lever handle lockset, mortise or cylindrical type with US26D finish, shall be provided. Lockset shall be Schlage D70PD or L9070 or equivalent approved in advance and in writing by PD & OPSC

3.5.5.7 Threshold saddle shall be extruded aluminum, minimum 5" wide. Door shoe shall be extruded aluminum with vinyl insert. Saddle shall be PEMKO 271A or 272A or equivalent approved in advance and in writing by PD. Door shoe shall be PEMKO 216AV or equivalent approved in advance and in writing by PD & OPSC

3.5.5.8 All exterior doors shall be weatherstripped at doorjambs and head with PEMKO 299PDV or equivalent approved in advance and in writing by PD &OPSC. Ceco series WDWCDR factory weatherstripped doorframes are also acceptable

3.5.5.9 Doorstop shall be Quality #44 or equivalent approved in advance and in writing by PD &OPSC.

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3.5.6 Roof

3.5.6.1 The roofing system shall be fire retardant per U.B.C. Standards. Test results showing the roofing system will withstand the uplift of a 80-mph wind shall be submitted with the plans and specifications. Built-up roof systems are not acceptable. Roof construction shall be one of the following

A. Pre-finished minimum 26 gauge galvanized sheet metal over 30 pound saturated felt underlayment and minimum 1/2" CDX plywood deck. Panels shall be unpenetrated, interlocking, mechanically crimped standing seam or ribbed type. For roofs with snow loads, each lap shall have a full-length silicone or equivalent sealant applied

B. Building manufacturer's standard pre-finished, minimum 22 gauge, galvanized steel, standing seam or ribbed type, interlocking roof panels. Provisions shall be made for the control of condensation on the underside of the panels. For roofs with snow loads, each interlock shall have a full-length silicone or equivalent sealant applied.

3.5.6.2 Design and installation of the deck and/or roof substrate shall result in the roof draining freely. Areas where water ponds for more than 24 hours are unacceptable and shall be corrected by the manufacturer.

3.5.6.3 All overhangs shall present a finished appearance. Soffits shall be enclosed with no framing members visible. Soffit material shall be minimum 3/8" plywood of the same type as used for siding. If grooved material is used, grooves shall match the grooves on the exterior siding. Plywood soffit material shall be applied with long direction running parallel to the length of the building. Soffit shall be neatly and closely fitted and trimmed to cover gaps. All enclosed soffit areas shall be ventilated per the U.B.C. If an all-metal roof is employed, the bottoms of the metal roof pans are acceptable in lieu of the enclosed soffit.

3.5.7 Entry Stoop and Ramp:

3.5.7.1 Each door shall be provided with a stoop and ramp conforming to Title 24, C.C.R. Section 2-3307. The stoop and ramp structure, including handrail and wheel guides shall be prefabricated metal in sections that are demountable for moving and reinstallation at a new site. There shall be sufficient cross bracing under the ramp surface to prevent bounce or oil canning of the ramp surface. Design shall be such that height adjustment can be made at the installation site. At all site installations, the ramp shall be completely installed. The ramp shall be of sufficient length to transition from finish floor to within 1-1/2" of the grade elevation on a level site when building is set at it's lowest possible finish floor elevation. The ramp shall comply with DSA regulations and Title 24, C.C.R. before the building will be accepted by the State. The ramp shall comply with DSA regulations and Title 24, C.C.R. before the building will be accepted by the State.

3.5.7.2 The ramp and landing surface shall be a minimum 12 gauge steel deck with non-skid finish applied. Non-skid finish shall be AMCO GRIP II by American Chemical Company, Monochem Dex-Coat or Monochem Floorcoat or equivalent approved in advance and in writing by PD. Alternate Ramp Surface: Perforated and dimpled metal decking, "Dimple Plate" by Duss Perforating Co. Inc. or equivalent may be used in lieu of solid decking with applied non-skid finish. Dimple plate shall be minimum 14 gauge steel plate with dimples on 3/4" staggered centers. Dimples shall be 1/4" high x 3/8" wide with 1/8" hole.

3.5.7.4 All ramp and landing surfaces shall be painted. Ramps shall have handrails on both sides. Wall mounted handrails shall be of similar construction to the integral ramp handrail.

3.5.7.5 Ramp and landing shall be fully skirted to the ground with the same material used for building skirt. All edges of the plywood skirt shall be supported and protected from weather. Foundation members shall be the same as those used for building foundation. Only the foundation pad resting on grade may extend beyond the outside face of the skirt by a maximum of 1".

3.6 Interior:

3.6.1 Walls: All classroom interior walls shall be vinyl-covered tackboard applied in one continuous length from floor to ceiling. The tackboard shall be industrial insulation board manufactured specifically as a substrate for vinyl covered wall panels. The board shall be asphalt free, shall have an ironed-on coating and shall have a minimum density of 16 pounds per cubic foot. The vinyl coating shall be made of virgin vinyl, weighing a minimum of 8 ounces per square yard. The coating backing shall be sheeting or non-woven fabric. The vinyl coating shall be mechanically laminated, with the long edges wrapped, to the tackboard. Tackboard shall be applied over 1/2" sheetrock or 3/8" plywood sheathing. The vinyl wall covered panel shall have a Class III flame spread rating. Care shall be taken in mounting the tackboard so that the texture of all panels will have the same orientation and color match. Tackboard shall be manufactured by Domtar Gypsum America, Chatfield-Clark, De'Cor Gravure Corporation, or equivalent approved in advance and in writing by PD & OPSC.

3.6.2 Suspended Acoustical Ceiling and Acoustical Panels: Ceiling that supports light fixtures or grills shall have a minimum classification of Heavy Duty per American Society for Testing and Materials (ASTM) C635 (Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings). Grid shall be direct hung in strict accordance with Title 21 C.C.R. and Title 24 C.C.R. and I.R. #47-4 issued by DSA. Acoustical panels shall be minimum 5/8" thick x 24" x 48" square edged mineral fiberboard or vinyl-faced fiberglass lay-in panels. Panels shall have a maximum flame spread index of 24 (ASTM E84) and a minimum noise reduction coefficient of 0.65. Contractor shall inspect after installation and replace exposed members with dents or defects.

3.6.3 Markerboard(s): Markerboards shall have minimum 28-gauge metal facing sheet with porcelain enamel finish suitable to accept dry erase felt markers. The facing sheet shall be laminated, using a not melt adhesive, to a medium density particleboard substrate with a minimum density of 45 pounds per cubic foot. The panel shall have a foil backing, extruded aluminum molding, and chalk rail with a minimum projection of 2.75" from the face of the panel. A full-length map rail shall be provided with cork insert and end stops. The map rail and chalk rail shall incorporate a channel to wrap around the panel. Three map hooks with clips shall be provided on each panel. One 1/2" flag holder shall be provided for each classroom. Markerboards shall be manufactured by Chatfield Clarke, Tri-Best Products, Nelson Adams (NACO) or equivalent approved in advance and in writing by Procurement Division. Care and use instructions shall be provided with each markerboard.

3.7 Electrical:

3.7.1 Lighting

3.7.1.1 The Contractor shall furnish an interior fluorescent lighting system that includes the following:

A. Overall illumination at desk level (30" above the floor) of an average of 50 foot-candles.
B. Clear acrylic prismatic lens
C. Built-in reflector housing. Must be full length and width of the fixture
D. Lamps shall be energy saving type, bi-pin rapid start, T8, 32 watt, 48", with 3500K phosphor, a CRI of 75, initial output of 2850 lumens and a minimum life expectancy of 20,000 hours. A preprinted sticker shall be provided inside each fixture indicating: "Re-lamp only with T8 32 watt lamps with 3500K phosphor."
E. Ballasts for fluorescent lamps shall be rapid-start energy saving high-frequency electronic type, Class P, high power factor (greater than 0.95), sound rating A, current crest factor less than 1.70, harmonic distortion less than 10%, lamp flicker less than 2% and a ballast factor of 0.85 or greater.

3.7.1.2 An exterior light shall be provided at each exit. Light shall be fluorescent, minimum 13 watts, surface mounted with 120-volt ballast. Lens shall be minimum 1/8" thick, gasketed, and provided with tamper-proof stainless steel screws. Light shall be Kenall 3714, Lithonia 202 2/7PL LP, Lithonia TWL 13TT or equivalent approved in advance and in writing by PD & OPSC. Exterior lights shall be controlled by a wall switch on the interior wall adjacent to the door and by a photoelectric cell mounted in a weatherproof junction box with weatherproof cover.

3.7.1.3 Light switches shall be Hubbell Premium Grade, Bryant Heavy Duty Grade, or Leviton 1221. Convenience outlets shall be specification or hospital grade.

3.7.2 Convenience outlets, computer outlets, data junction boxes, intrusion alarm junction box, and conduit shall be provided as indicated on attached "Power and Data Plan" for Types I, III, and IV and on Floor Plan for Type II buildings.

3.7.3 Contractor shall provide panel schedule with electrical load calculations on drawings

3.7.4 An Eagle, Bryant, Slater, or Leviton clock outlet and 12" wall clock shall be installed as indicated on Floor Plan or Power and Data Plan.

3.7.5 All electrical wiring 110V and greater shall be in conduit systems and shall meet or exceed the requirements of National Electrical Code. Minimum conduit size shall be minimum 1/2". Conduit shall be galvanized thin wall electrical metallic tubing (EMT) or galvanized steel flex (with factory applied PVC jacket for exterior applications). All conduits shall be continuous from outlet to outlet and shall be secured in conformance with Part 3, Title 24 of the California Code of Regulations. Field bends shall be avoided wherever possible. Where bends must be made, an appropriate "Hickey" or bending machine shall be used. All conduit shall be reamed and deburred prior to installation and shall terminate in appropriate bushings or conductors

3.7.6 Wiring shall be minimum #14 copper type TW, THW, THHN or THWN as applicable. Conduit fill shall not exceed requirements of Part 3, Title 24 of the California Code of Regulations. A separate grounding conductor shall be pulled throughout the entire system. Care shall be taken to avoid damage to wire or insulation during pull-in. Powdered soapstone or a pulling compounds such as "Yellow 77" lubricant shall be used if necessary

3.7.7 Electrical connections stub out for Type II (Infant-Preschool) buildings shall be at electrical panel. For all other types, electrical supply connection shall be located on wall opposite door. Hook-up shall be performed by others

3.7.8 Contractor shall be responsible for providing necessary connectors and conductors to ground the metal portions of the building (i.e., frame, ramp, etc.). Grounding rod, wires, and testing shall be provided by others and meet the requirements of I.R. #8-1 issued by DSA

3.7.9 All electrical circuit breakers shall be identified by permanent typed or computer printed adhesive label fixed on the inside of panel.

3.8 Painting:

3.8.1 All exposed surfaces shall be painted except aluminum window frames, thresholds, and prefinished items such as HVAC equipment. All painting shall be done per manufacturer's printed instructions

3.8.2 Exterior Wood: Wood siding, trim and skirting shall be painted with 100% acrylic latex paint that meets the requirements of State Specification 8010-xxx-098 with additional requirement that it be 100% acrylic latex paint. One coat of primer and at least one finish coat shall be applied. Prime coat shall be brushed on or sprayed and back brushed into all grooves in the siding. If necessary in the opinion of the inspector, an extra coat shall be applied to all grooves so that the finish coat will have a uniform appearance. Prime coat shall be allowed to dry according to manufacturer's recommendation. Prime and finish coats shall be compatible and manufactured by the same company. Exterior fascia and trim shall be backprimed to prevent cupping.

3.8.3 Interior Trim: All trim not precoated shall be painted with two coats of 100% acrylic semi-gloss latex over primer.

3.8.4 Metal: All ferrous metal surfaces shall be painted with two finish coats over rust inhibitive metal primer. Prior to application of primer, surfaces shall be clean, dry, and free of rust, scale, grease, oil, dirt, and all other contaminants. Any surface oil and grease shall be removed by solvent wiping with mineral spirits. Acceptable metal primers are:

Ferrous Metal Primer Red Oxide: Sherwin Williams B50NZ6, Kelley Moore 1710, Dunn Edwards 43-4, Fuller O'Brien 621-04, Sinclair 15, Ameritone 54

White Rust Inhibitive Primer: Sherwin Williams B50W1, Kelley Moore 1711, Dunn Edwards 43-5, Fuller O'Brien 621-05, Sinclair 14, Ameritone 13201

PD & OPSC must approve other equivalent metal primers in advance and in writing before being used.

3.9 Heating, Ventilating, Air Conditioning (HVAC):

3.9.1 Heat Pumps

3.9.1.1 All work shall be in full accordance with applicable editions of American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) Standards and Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) Standards

3.9.1.2 Type IV buildings shall be provided with one primary and one auxiliary heat pump. All other buildings shall be provided with a single primary heat pump.

3.9.1.3 Contractor shall furnish and install one-piece, wall mounted, factory-assembled, precharged prewired, tested and ready-to-operate heat pump unit(s). The unit(s) shall be approved and listed by Underwriters' Laboratories, Inc. or other nationally recognized testing organization. Performance of units shall be certified in accordance with Air Conditioning and Refrigeration Institute Standard 210/240 for Unitary Air-Source Heat Pumps, latest edition. The same company shall manufacture primary and auxiliary heat pumps. All units shall be 230/208 volt, 1 phase system, and meet current energy standards. MINIMUM SEER RATING = 12.0

3.9.1.4 The HVAC system shall maintain an automatically controlled indoor classroom temperature of 78°F in summer and 68°F in winter with a 60% relative humidity when the outdoor temperatures vary as indicated below

Building Type	SUMMER	WINTER
Type I	92°F db/72° F wb	+10°F db
Type II	92°F db/72° F wb	+10°F db
Type III	92°F db/72° F wb	+10°F db
Type IV	114° F db/72° F wb	+10°F db

Calculations shall be based on 32 occupants. The mechanical ventilation system shall provide a minimum of 15 cubic feet of outside air per minute per occupant and a minimum of 50 cubic feet of air per minute per occupant

3.9.1.5 Compressors shall be welded hermetic type with built-in thermal and over-current protective devices and a 5-year warranty.

3.9.1.6 Coils shall be of copper tube construction with mechanically bonded aluminum plate fins.

3.9.1.7 Indoor coil blower shall have a direct drive forward curved centrifugal impeller that delivers a minimum of 1700 cfm (primary heat pump) or 1200cfm (auxiliary heat pump) of air through a wet coil with an external static pressure of 0.25" wc at high speed. Twin blowers are acceptable

3.9.1.8 Propeller type outdoor coil fan shall discharge horizontally and be direct driven

3.9.1.9 Controls shall be factory wired and located in a readily accessible location on the unit. Fan motors shall have both thermal and current sensitive overload devices. Control circuit transformer shall be factory installed. Line voltage circuit breaker or pull disconnect with lockable cover shall be supplied on each unit and shall be easily accessible without removing any unit panels

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Electrical Engineer's Seal

Mechanical Engineer's Seal

~~Structural Engineer's Seal~~

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
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101419
DATE OCT 27 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
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PROJECT NUMBER: .

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SPECIFICATIONS

DRAWN BY: .
DATE: . 2/21/01
CHECKED BY: SS
DATE: 10/22/99
MODTECH Index No.
A8.0

PROJECT NO. .
FILE PATH: .
PC— .

AGENCY APPROVAL:

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HMC Architects

R221551X01

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
SPECIFICATIONS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:
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3.9.1.10 Cabinet shall be a single, enclosed, weatherproof casing constructed of minimum 20 gauge galvanized steel. Each exterior casing panel shall be finished with enamel paint prior to assembly. Cooling section shall be fully insulated with 1-inch fiberglass to prevent sweating and to muffle sounds. Openings shall be provided for power connections. Access openings for all fan motors and compressor shall be designed so that repairs and removal of internal components can be accomplished without removing the unit from its permanent installation. Full-length side mounting brackets shall be provided. Fresh air intake and outdoor coil shall be protected from intrusions by a sturdy metal grating

3.9.1.11 Primary heat pumps shall be equipped with an internally mounted damper system that will intake a minimum of 480 cfm of outdoor air and exhaust the equivalent volume of conditioned air. System shall be electrically controlled with a minimum of four different damper settings. Damper system shall automatically open to admit outdoor air when unit is on and automatically close when unit is off or power is lost. Damper system shall be approved by U.L or other nationally recognized testing agency. Outdoor air shall be filtered through the replaceable filtering system. Each building shall be tagged with a minimum 4" x 2" engraved plastic adhesive-backed label mounted on face of the thermostat with the following information:

- ✳ The OPSC recommends the replacement of the heat pump filter every thirty days.
- ✳ Heat pump filter dimensions are 20" x 30" x 1"

3.9.1.12 Primary heat pump shall have a minimum total cooling capacity of 58,500 BTU/HR with an outdoor temperature of 90°F and a returning air temperature of 80°F db/67°F wb (no outdoor air) Auxiliary heat pump shall have a minimum cooling capacity of 24,000 btu/hr with an outdoor temperature of 115° and a returning temperature of 80° db/67° wb.

3.9.1.13 For Types I buildings, a minimum of 10Kw electric resistive heating shall be provided on primary heat pump. The resistive heating shall be configured so that it can be changed to approximately 5 Kw capacity or 0 Kw capacity by adding or removing a few easily accessible wires. Controls shall be configured so that heat pump compressor and resistive heating can operate simultaneously.

3.9.1.24 The unit shall be installed in strict accordance with manufacturer's instructions with particular attention to required flashing. Manufacturer's literature, certified ventilation tables, operating instructions and guarantee shall be delivered to the school district of child care agency at the time the building is delivered.

3.9.2 Ductwork

3.9.2.1 Ductwork shall be constructed of galvanized sheet metal in accordance with Uniform Mechanical Code and SMACNA Low Velocity Duct Construction Manual, latest editions. All ductwork shall be insulated with minimum 1" thick fiberglass duct wrap with vapor barrier, a minimum of 1" duct noise attenuation material shall be provided at all ductwork within 8'-0" of hvac unit. Air handling ducts and plenum shall be sealed in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, latest edition. Primary and auxiliary heat pumps shall be provided with their own duct systems. primary and auxiliary duct systems shall not be connected.
MINIMUM SEER RATING "12.00"

Non-Metallic Ductwork Option: In accessible concealed portions of duct system, rigid 1" fiberglass or insulated "Flexduct" with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 5' of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure. If used, ducts shall be Owens-Corning Fiberglass Duct Board, Manville Micro-Aire Type 475, or equivalent approved in advance and in writing by PD. Non-metallic ductwork shall conform to NFPA 90-A and 90-B and SMACNA Class I rating, FLAME SPREAD 0-25. SMOKE DENSITY 0-50.

3.9.2.2 Each duct system shall be provided with a minimum of two 4-way throw commercial grade supply diffusers with opposed blade volume control as manufactured by Carnes, Hart & Cooley, Barber-Coleman, Kruegar, Shoemaker, Titus or Air Mate. Return air grille shall be heavy-duty bar grille with 45-degree blades similar to Carnes model RSHAH

3.9.3 Thermostat: Contractor shall provide a White Rodgers 1F92 or Honeywell T8611M, electronic programmable thermostat for the primary heat pump with the following functions: 5 and 2 weekday/weekend programming with minimum of 4 separate time/temperature settings per 24-hour period, Keyboard lockout switch, Programmable display, Minimum 2 hour override. Status indicated LEDs, Battery back-up or EEPROM memory. A locking clear thermostat cover with access hole for program override shall be provided. A 9-wire thermostat cable shall be supplied between thermostat and heat pump

3.9.4 Auxiliary heat pump primer: Contractor shall provide a 4 hour maximum manual time switch wired in series with an "Off-Heat-Cool" control switch that will allow cooling and heating by auxiliary heat pump. Timer and control switch shall be flush mounted on twall on which heat pump is hung.

3.9.5 Ventilation Controller: A ventilation controller shall be provided that monitors the carbon dioxide level in the classroom air and controls the ventilation by opening or closing the damper. Controller shall display CO_2 levels on a built-in display from 0-5,000 ppm. Unit shall be designed so those users can set point at which damper opens and point at which damper closes. Controller shall be initially set so that damper opens at 800 ppm and closes at 600 ppm. Unit shall be certified by the California Energy Commission and shall have a recommended calibration interval of at least 5 years. Controller shall be located on an interior wall and provided with a wire bail guard that is screwed to wall. Controller shall be Engelhard Ventostat 8002W or Honeywell C7242A or equivalent approved in writing by Procurement Division after June 1, 1999.

3.9.6 Air Balance Test: For each building type, Contractor shall perform an air balance test on a completed building. Test shall determine optimum position of diffuser dampers and position of ventilation damper that will provide 480 cfm of outside air. All buildings shall be supplied with dampers set in positions determined by test Test shall be witnessed and verified by the inspector of record.

3.10 Fire Alarm and Extinguisher:

3.10.1 Fire Alarm: Contractor shall provide conduit and junction boxes for future connection to school fire alarm system by others. Junction boxes shall be galvanized sheet metal, square or rectangular, with blank covers. One box shall be located externally at rear of building near main electrical panel at 18" above finish floor. One square 2-gang junction box shall be located internally near exit door at 48" above finish floor for future pull station. One square 2-gang junctio box shall be located at exterior front wall at minimum of 96" above finish floor for alarm horn. Finish covers shall be installed at all locations. At exterior locations, covers shall be gasketed, metal and weatherproof. Conduit shall be installed from alarm pull switch junction box to horn junction box and from junction box mounted near electrical panel to horn junction box. Conduit shall be minimum 1/2" galvanized thin wall electrical metallic tubing (EMT). Continuous pull cord shall be installed for future wire installation. Fire alarm conduit shall not be connected with any other electrical conduit.

3.10.2 Fire Extinguisher: Each portable classroom shall be equipped with one pressure type fire extinguisher with 2A10BC UL rating mounted on an interior wall near a doorway at a height of fou feet Fire extinguisher shall be totally charged and have a dial indicating the state of charge Mounting hardware shall include a strap with quick release device to hold the extinguisher in place

3.11 Materials and Workmanship

3.11.1 Asbestos containing building materials that exceed State and Federal mandated safe asbestos levels shall not be used in the construction of relocatable facilities The manufacturer shall provide a statement of compliance on the plans.

3.11.2 All materials used, unless otherwise specified, shall be new and of the types and grades specified The Contractor shall, if requested, furnish evidence satisfactory to the Agency Architec that such is the case

3.11.3 All workmen shall be skilled and qualified for the work that they perform. Contractor's crews assigned to any work performed under this contract shall include a competent and fully experienced person designated as the responsible person in charge. Responsible person shall be identified by name to OPSC in advance of any work. If requested, the Contractor shall furnish to the Agency Architect information relating to any employee's experience.

3.11.4 Workmanship shall be equal or better in quality to that required by the construction trades for a finished product. A quality control supervisor, designated by the manufacturer, shall review all work in progress and shall review the finished building prior to final inspection to assure it is complete and correct The quality control supervisor shall have the authority to have materials replaced and work redone in order to correct faulty materials or workmanship

3.12 Inspection

3.12.1 Buildings To Be Constructed After Bid Opening Date: In-plant inspection services shall be provided by independent contractors retained by OPSC. In-plant inspection and material testing shall be accomplished under the supervision of the Agency Architect. The contractor shall notify OPSC at (916) 445-3160 and the Agency Architect at least 5 working days prior to beginning of production on each building. Payment will not be made on buildings where this requirement is not met The Agency Architect and inspector shall have full access to all plant operations involving work under this contract. The inspector shall be notified in advance of the time and place of operations that the inspector wants to observe. Before the building is removed from the plant for delivery to the storage facility or from the storage facility to the site, the inspector and Agency Architect shall determine that they are acceptable and issue a written release which shall be in the form of a Verified Report (Form SSS-6). A COPY OF THE INSPECTOR'S VERIFIED REPORT INDICATING THERE ARE NO PUNCH LIST ITEMS SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE.

3.13 General

3.13.1 Energy Conservation: Building shall comply with Title 24, Part 2, and Chapter 2-53 of the California Code of Regulations. These regulations are also contained in California Energy Commission Publication P400-92-001 (Building Energy Efficiency Standards for New Buildings) Title 24 documentation shall be provided for plancheck and submittal to DSA.

3.13.2 Tagging. Each module shall be permanently identified with a minimum 3" x 1-1/2" stamped metal (not foil) identification tag with the following information: 1) OPSC building number, 2) Design wind load, and 3) Design roof live load. This tag may be in addition to or to be combined with the identification tag required by the Division of the State Architect An additional tag indicating the OPSC number and the DSA number shall be installed inside the electrical panel

3.13.3 Finish and base materials at each module, except roofing, carpet and suspended ceiling shall terminate at interior module joints in a manner to join flush and tight with same material in adjacent module so that modules may be relocated with minimum cutting and patching

3.13.4 Each module placed in storage for ANY length of time (either in storage yard or on site) shall be closed up in a secure and weathertight manner protecting them from all damage. Modules shall be maintained in this manner until State acceptance at designated school site.

3.13.5 Submittal of engineering data or drawings by the Contractor and subsequent authorization to proceed by the owner or owner's representative shall not relieve the Contractor from responsibility for compliance with all applicable specifications Deviations from any specification is acceptable only where authorized in advance in writing by the owner or owner's representatives. Where deviations were agreed to on an earlier contract, it shall not be assumed that these deviations will be accepted on the current contract.

3.13.6 Color Sample Submittals: Color samples shall be submitted to OPSC for selection for all items for which there are color options. Samples shall be submitted at an appropriate time so those color requirements are incorporated into drawings or reference documents prior to construction

3.13.7 Special Permits or Fees: Any special fees required by city, county, or State agencies for the delivery and/or installation of these modules shall be the responsibility of the contractor

4.0 Site Erection:

4.1 Once modules are delivered at the site, installation shall commence immediately and be pursued in a timely manner until complete. All modules called for at that site shall be scheduled for delivery and installation in one continuous time frame, at least two per week (Saturdays, Sundays and Holidays excepted). Failure to begin installation within 24 hours after delivery (Saturdays, Sundays and Holidays excepted) or failure to complete building installation to the approval of the State within ten calendar days after building delivery shall be considered a default of the Contract The contractor shall furnish materials and equipment in ample quantities and at such times to assure uninterrupted progress of the work Failure to provide adequate working force or material of proper quality, or failure in any other respect to prosecute the work specified herein shall be grounds for declaring default on the contract.

4.2 Security of the buildings against vandalism is the sole responsibility of the contractor until installation of the buildings, according to the terms of this contract, has been completed and the buildings have been accepted by the State or accepted for occupancy by the School District with State approval The Contractor shall lock up all materials and equipment at the end of the day's work All scrap material shall be removed from the site at the end of each day's work The building site and the building shall be clean and ready for occupancy prior to acceptance by the State

4.3 Coordination of Work and On-Site Inspection: It shall be the Contractor's responsibility to make all necessary arrangements with the School District's Authorized Representative for access to grounds and removal of equipment, if necessary. The representative's name and address is available from OPSC. This contact shall be made at least 48 hours prior to delivery of any module. The site inspector hired by the district shall do on-site inspection. All work, which the manufacturer or his subcontractors perform at the site, shall be subject to the inspection of the site inspector. The manufacturer shall furnish the site inspector with a full set of approved plans and such information as may be necessary to keep him fully informed as to progress of work and dates when site work will occur. The contractor shall notify DSA and the District's designated Inspector/Inspection Agency at least 48 hours prior to commencing work. THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM (S) PRIOR TO THE DELIVERY OF ANY CLASSROOM (S) BY VISITING EACH SITE. In the event buildings are delivered to any site that is not in condition to receive buildings, the contractor shall be responsible for all costs incurred including, but not limited to, INSPECTOR'S time

4.4 Temporary Facilities: Contractor shall make arrangements for and provide his own temporary water, electric light and power, field office, corporation yard, parking and toilet facilities as may be required for each of the sites.

5.0 GUARANTEE: Contractor shall unconditionally guarantee that work will be done in accordance with requirements of contract, and that the work will remain free of defects in workmanship and materials for a period of one year from date of acceptance by the State. Contractor shall agree to repair or replace any and all work, together with any other adjacent work which may have been damaged or displaced in so doing, that may prove to be not in accordance with requirements of contract or that may be defective in its workmanship or material within guarantee period specified, without any expense whatsoever to the State. Contract bonds shall be in full force and effect during guarantee period. Within ten calendar days after being notified in writing by the agency of any work not in accordance with requirements of contract or any defects in the work, contractor shall commence and prosecute with due diligence all work necessary to fulfill terms of this guarantee, and to complete the work within a reasonable period of time. In the event the contractor fails to comply, the agency shall proceed to have such work done at contractor's expense and contractor shall pay cost thereof upon demand State shall be entitled to all costs, including reasonable attorney's fees, necessarily incurred upon contractor's refusal to pay above costs

LICENSED ARCHITECT FRED VINCENT HALLOCK No. C-24628 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

LICENSED ARCHITECT FRED VINCENT HALLOCK No. C-24628 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

STATE OF CALIFORNIA
Bid Specification

Building, Classroom, Prefabricated, Relocatable, Type I
(Standard Without Restrooms)

5410-9BS-029
MARCH 2000

Office of Public School Construction (OPSC)

1.0 SCOPE: This specification establishes the specific requirements for standard relocatable prefabricated classrooms without restrooms. Building shall also comply with general requirements contained in State of California Bid Specification 5410-XBS-028, Building, Classroom, Prefabricated, Relocatable, General Requirements.

2.0 SPECIFICATIONS AND STANDARDS: Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid form a part of this specification where referenced.

3.0 REQUIREMENTS

3.1 Windows:

3.1.1 Anodized aluminum (8040) frame 5/8" minimum dual pane window units shall be provided on opposite walls. One window shall be in the same wall and a minimum of two feet from the door. Interior window opening shall be completely cased with solid wood molding or prefinished paneling with prefinished trim. Window frame shall be the 50%, double sliding sash type (XOX). Glazing materials shall be

Exterior lite - 3/16" minimum tempered glass or laminated AS-1 LOW-E GLASS (CARDINAL GLASS COMPANY, LO-E² 172, OR EQUIVALENT) type with a maximum light transmission factor of 46% Interior lite - 1/8" minimum clear tempered.
Space - Bent or sealed corner aluminum with desiccant fill.
Sealer - Butyl primary seal and polysulfide or silicone secondary seal.

3.1.2 Certification-All glazing shall be certified in accordance with ASTM E-773 (Test Method for Seal Durability of Sealed Insulating Glass Units) and E-774 (Specification for Sealed Insulating Glass Units)

3.1.3 Header height shall be the same as the door. All operable sash shall have aluminum screens. Windows shall not be mounted to the exterior plywood surface.

3.1.4 Windows shall be dual-commercial type (HS-C20) meeting requirements of American National Standard Institute (ANSI)/American Architectural Manufacturers Associate (AAMA) Standard 101, Voluntary Specification for Aluminum Prime Windows and Sliding Glass Doors.

3.1.5 A minimum of 6" of shingle style kraft paper flashing shall be installed around all windows. Minimum 26 gauge G.I. flashing shall be installed at head

3.2 Floor Covering: All units shall be carpeted with direct glue down type per State of California Specification 7220-XXX-04 (Carpet, Broadloom, Nylon, Tufted, Commercial grade, 26 Ounce, Level or Multilevel Loop Pile), Type 1. Color will be selected by agency after award of bid. Cross seams are unacceptable. Resilient cove base shall be solid color, molded rubber, minimum 1/8" thick, minimum 4" high. Preformed base pieces shall be used for corners. Cove shall be applied to complete perimeter of classroom. Cove base shall be Burke Rubber #502-P or equivalent approved in advance and in writing by PD. Adhesives shall be water based and shall be applied per manufacturer's written instructions.

3.3 Insulation:

3.3.1 Wall and floor insulation shall have a rating of R13. Ceiling insulation shall have a rating of R22. On buildings where a metal roof deck, metal beams or other metal elements are exposed above the ceiling, an interior moisture barrier shall be provided on the warm in winter side of the insulation in the ceiling are to prevent condensation on any metal surfaces. The moisture barrier shall comply with 25/50 Fire Hazard Classification Rating per ASTM E-84 and all seams or openings shall be sealed. Moisture barrier to be Convex CW600 flame spread 0-25 and a smoke density rating not to exceed 450 when tested in accordance with U.B.C. Standard No. 8-1.

3.3.2 Floor insulation shall be secure with a permeable material in a manner approved by the Agency Architect. The insulation support material shall prevent movement of the insulation during transportation. The insulation and support material shall be intact upon delivery to the site and shall completely cover the floor cavity.

3.4 Markerboards: Each classroom shall have two 4' x 8' panels installed side by side centered on one of the long walls.

3.5 OPSC/DSA Approval and Document Distribution

3.5.1 After notice of award, the successful bidder shall prepare plans, specifications, and calculations and submit two copies of them to the Agency Architect within 30 calender days of receipt of the order. All plans, specifications and calculations shall be signed by an architech(s), structural engineer(s), electrical engineer(s) and mechanical engineer(s) licensed by the State of California. The material sections of this specification and bid specification 5410-XBS-028 shall be incorporated into the bidder's plans and printed on the appopiate pages prior to submission to the Agency Architect for specification compliance check.

3.5.2 The Agency Architect shall return one set of the plans, specifications for corrections or issue a letter of compliance showing approval within 10 working days of receipt. Any notations or corrections required by the Agency Architect shall be incorporated into the plans and specifications and they shall be returned to the Agency Architect within 5 working days in the firm of one complete set of reproducibiles and two complete set of prints. contractor shall have only one opportunity to correct plans at the Agency Architect level. resubmittals shall be delivered by express mail or may be delivered in person.

3.5.3 Once Agency Architect approval has been obtained, Contractor shall submit to the Agency Architect two complete sets of approved plans for each lot of buildings offered within 3 working days. The Agency Architect shall then submit to DSA for project approval and obtain a stockpile approval number for the specified number of buildings to be provided under the current contract. Final DSa approved plans shall be expressed mailed or hand delivered to Contractor within three working days. THE SUCCESSFUL BIDDER SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH MEETING THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE IN EFFECT AT THE TIME OF SUBMISSION TO DSA FOR FINAL APPROVAL. The Department of General Services will pay any charges from DSA which are incurred while obtaining final DSA building approvals.

3.5.4 The Contractor shall provide one set of reproducible approved plans for each school site listed within 5 working days after receiving the "Plan Letter". Plans shall be sent to each school district architect for use in obtaining site plan approval. proof of mailing shall be sent to OPSC within 3 working days.

3.5.5 Contractor shall not begin construction of the buildings until a written notice to proceed by the OPSC representative has been received. Notice will be provided within thirty days of project approval.

STATE OF CALIFORNIA
Specification

Paint, Latex Maintenance

8010-81J-098
August 1998

1.0 Scope This specification covers the requirements for latex based maintenance paint procured by the State of California.

2.0 SPECIFICATIONS AND STANDARDS Specifications and standards referenced in this document in effect on the opening of the invitation for Bid form a part of this specification where referenced.

3.0 REQUIREMENTS

3.1 FORMULATION: The manufactuer shall include in his formulation the necessary additives for control of sagging, leveling, excessive settlement and skin formatiom, drier absorption and other requisite qualities of a satisfactory working material.

3.1.1 REGULATORY REQUIREMENTS: This product must comply with local air pollution control district regulatoins and federal lead and mercury content laws.

3.1.2 CONDITION IN CONTAINER: Paint shall show no evidence of putrefaction, skinning, hard settled pigment or corrosion of the container. The paint shall be easily dispersible to a uniform condition by hand stirring.

3.1.3 COLOR: The paint shall be available in all colors.

3.2 MATERIALS:

3.2.1 The paint shall have no objectionable odor.

3.3 PERFORMANCE:

3.3.1 Must be a high quality paint with a minimum ten (10) year manufacturers warranty.

3.3.2 The paint shall have acceptable one coat coverage.

3.3.3 The paint shall brush, roll and be sprayable (airless) without filtering. The material shall have no objectionable pulling and the resulting film shall not sag, or run, and shall level to a smooth surface of satisfactory appearance with no coarse particles, blistering, fish eyes, orange peel, pitting or pinholes after drying. Drytime shall not be more than one (1) hour, set to touch.

3.3.4 Dry opacity of white paint shall not be less than 0.97, 3 mil wet film.

3.4 MANUFACTURERS QUALITY CONTROL PROGRAM: The manufacturer shall maintain a Quality Control laboratory sufficiently equipped and staffed for the control of all the requuirements in this specification.

4.0 QUALITY ASSURANCE PROVISIONS

4.1 Sampling and Inspection; This commodity will be sampled and inspected for compliance to this specification as deemed necessary. Sampling and inspection by attributes will be in accordance with Military Standard, MIL-STD-105 Sampling Procedures and Tables For Inspection by Attributes. An inspection lot is defined as one delivery to one agency at one time.

5.0 PREPARATION FOR DELIVERY

5.2 Marking:

5.2.1 Containers: Each container shall be clearly labeled with the following information:

a. The descriptive name of paint (e.g. Latex Interior Wall Paint, Semigloss, Exterior, Finish Coat, etc.) and the door.
b. Batch number and data code. The manufacturers standard batch and date code are acceptable for this item if clearly marked and the key to any code is provided to the customer.
c. The manufacturers name.
d. Full instructions for surface preparation, application, thinning and equipment cleanup.
e. Recommended use of the product on various types of surfaces.
f. The approximate area coveered per gallon (liter)
g. All paints containing flammable solvents shall have a caution warning on the label.

The vendors standard label is acceptable if it contains the above data. Those items unique to State Procurement may be added with small stick-on labels at the option of the vendor. The stick-on labels must not obscure other required data.

Labels for one- gallon (4 liter) cans and smaller shall be of the complete wrap-around type. Labels for the five gallon (19 liter) cans shall be at least seven (7) by eight (8) inches (18x20 cm) and shall be permanenty attached with permanent glue.

5.2.2 CARTONS: Each shipping carton shall be clearly labeled with the following information: Purchase Order Number, State Commodity Item Code Number, Descriptive Name of the Paint, Color, Batch Number, Data of Manufacture (Month and Year), Manufacturers Name.

5.3 SHIPPING: All packaging and shipping shall conform to applicable Federal and State Regulations and conform to good commercial practices. The groos weight of each shipping carton shall not exceed 65 pounds.

6.0 NOTES

6.1 WARRANTY: The shelf life of all protective coatings manufactured under this specification shall be not less than one year. Some 'soft settling' will be allowed, but the materials shall be easily redispersed with a hand paddle.

The State reserves the right, at any time within one year from date of acceptance, to check for conformance to specification any paint delivered under this specification. Any material failing to comply will be returned to the vendor for replacement and all expenses, including re-inspection and re-testing, shall be paid for by the vendor.

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PROJECT NO.:

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MODTECH INC.
2830 BARRETT AVENUE
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PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: .

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SPECIFICATIONS

A8.1

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
SPECIFICATIONS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 CLIENT PROJ NO: R221551X01

SHEET:
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ELECTRICAL PANEL SCHEDULE

MAIN: 150 AMP | PANEL: A | LOCATION: REAR/INTERIOR | FEED: REAR | MOUNTING: FLUSH

LOAD	WATTS A∅	WATTS B∅	BREAKER Amps	P	CKT	A	B	CKT	P	BREAKER Amps	WATTS A∅	WATTS B∅	LOAD
HEAT PUMP	6240		60	2	1			2	1	20	720		RECEPTS
HEAT PUMP		6240	–	–	3			4	1	20		900	RECEPTS/CLOCK
HEAT STRIP - 10 KW	6240		60	2	5			6	1	20	1000		COMPUTER
HEAT STRIP - 10 KW		6240	–	–	7			8	1	20		1000	COMPUTER
LIGHTS	760		20	1	9			10	1	20	1000		COMPUTER
LIGHTS		700	20	1	11			12	1	20		1000	COMPUTER
					13			14					
					15			16					
					17			18			2720	2900	
WATTS/PHASE A = 15,960	13240	13180										B = 16,080	WATTS/PHASE

TOTAL 32,040 WATTS | 134 AMPS | 120/240 VOLTS | SINGLE ∅ | THREE WIRE

10 K.A.I.C. MIN

NOTES

1. PROVIDE MIN. 3" X 1 1/2" METAL TAG INSIDE ELEC. PANEL INDICATING OPSC NUMBER AND DSA NUMBER.
2. SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE ELECTRICAL ENGINEER'S INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, SECTION 1630A.2 (g) AND TABLE 16A-O ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIP. WEIGHING LESS THAN 400 LBS. & HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

FOR ELECTRICAL DRAWINGS:

ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	30% OF OPERATING WEIGHT

FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE.

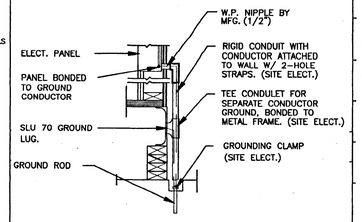
THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE , Z = 0.4.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND THE FIELD ENGINEER OF THE OFFICE OF THE STATE ARCHITECT.

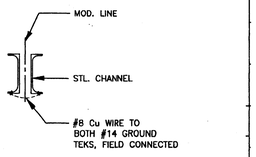
✱ SMOKE & HEAT DETECTORS SHOWN ARE FOR OPTIONAL AUTOMATIC DETECTION. IF ELECTED AS AN OPTION THEY MUST BE PROVIDED BY DISTRICT. NO PROVISIONS WILL BE MADE UNDER THIS CONTRACT.

GENERAL GROUNDING NOTES

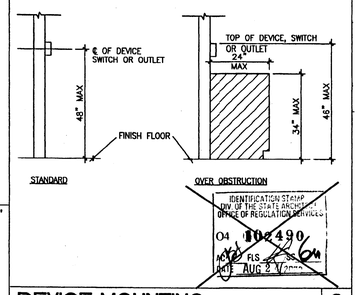
1. EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP. (BY SITE ELECTRICAL)
2. TESTING: TEST FOR RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (BY SITE ELECTRICAL)
3. PROVIDE EQUIPMENT ANCHORAGE PER TITLE 24, TABLE 16 J, PART B.
4. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.
5. GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH C.E.C. ARTICLE 250.
6. TO ASSURE A QUALITY GROUND FOR COMPUTER OUTLETS AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE RUN WITH THE RECEPTACLE CIRCUITS FROM THE PANEL GROUND BUS AND SHALL BE BONDED TO THE GROUND TERMINAL OF EACH RECEPTACLE PER CEC ART. 250



TYP GROUNDING DETAIL 1



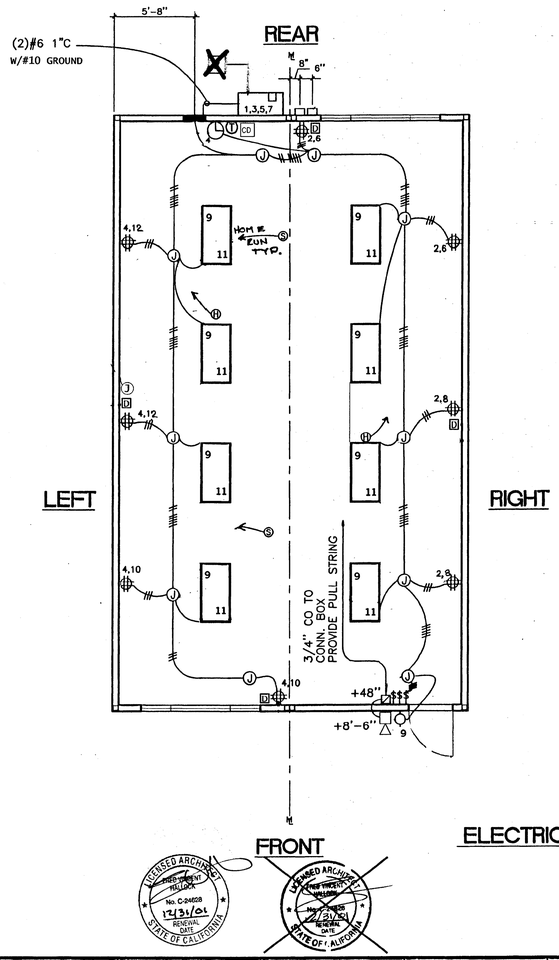
GROUND JUMPER • MOD LINE 2



DEVICE MOUNTING 3

ELECTRICAL LEGEND

- 2 X 4 – 4 TUBE T8 FLOURESCENT LIGHT FIXTURE W/ELECT. BALLAST (SEE SPEC. FOR LABELING INSIDE FIXTURE.0
- EXTERIOR LIGHT, 13 WATT FLOUR. WITH PHOTO CELL AND SWITCH CONTROL, AT +90" AFF. (SEE SPECS)
- SWITCH AT +48" AFF (SEE SPECS)
- RECEPTACLE, FOURPLEX (2 DUPLEX RECEPTACLES IN TWO GANG BOX) COLORS: CONVIENCE – IVORY (I) COMPUTER – GREY (G)
  WALL MOUNT AT +18" AFF – UNO, COVER PLATES – IVORY
  *SEE GROUNDING NOTE #6
- JUNCTION BOX, 4"SQ X 2 1/8" W/SINGLE DEVISE RAISED RING AND 3/4" CONDUIT W/BUSHING TO ATTIC. MOUNT AT 7'-6" AFF AND PROVIDE SGL. GNG. BLANK COVER PLATE.
- JUNCTION BOX, 2 GANG RAISED RING W/2 GANG BLANK COVER +24" AFF. 1" CONDUIT TO ATTIC. PULLSTRING.
- HVAC UNIT – SEE MECH PLAN
- THERMOSTAT – #IF92 W/LOCKABLE COVER, 48" AFF
- 4SD J-BOX FOR FIRE ALARM PULL STATION AT +48" AFF, TO ℄ 3/4" CO TO OR . PULLSTRING
- 4SD J-BOX FOR FIRE ALARM STROBE AT +80" AFF 3/4" CO TO PULLSTRING
- 4SD J-BOX FOR FIRE ALARM HORN AT +96" AFF 3/4" CO TO . PULLSTRING
- WEATHER PROOF GUTTER BOX (6"x6"x4") AT +18" AFF RECEIVE 3/4" CO FROM FA DEVICE, PULLSTRING
- ELECTRICAL PANEL AT +60" AFF TO CENTERLINE 1 1/4" POWER NIPPLE POC, GND JUMPER BY SITE ELECT
- CLOCK AT +90" AFF
- CD CARBON DIOXIDE DETECTOR, SGL. GNG. BOX WIRED TO FRESH AIR DAMPER. CONTROLLER W/WIRE GUARD AT 96" AFF



ELECTRICAL PLAN (24'X40')

"A" SHOWN
"B" OPPOSITE

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

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MODTECH INC.
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PERRIS, CALIF. 92572
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PROJECT NUMBER:

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ELECTRICAL PLAN W/ DATA

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

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NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ELECTRICAL PLAN (W/ DATA)

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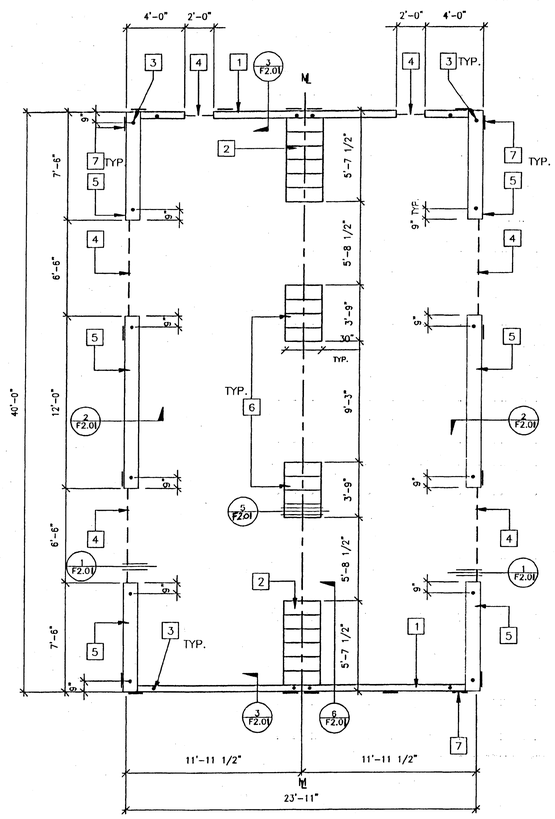

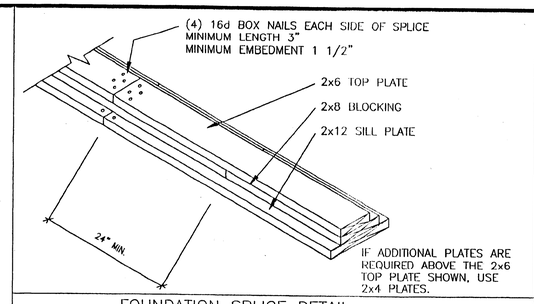

FOUNDATION SPLICE DETAIL

KEY NOTES

1. 2"X6" SILL PLATE (END WALL)
2. 6– 2X12X30" LONG SILL PADS
3. PIPE TO GRADE (TYP.)
4. 3" HIGH BY 6'–6" LONG VENT @ SIDEWALLS
   3" HIGH BY 2'–0" LONG VENT @ ENDWALLS
5. 2X12 SILL PLATE (SIDE WALL)
6. 4–2X12X30" LONG SILL PADS
7. 6"X12"X10 GA. PLATES
   5 @ ENDWALL, 4 @ SIDEWALL
8. NOT USED
9. NOT USED

NOTES

1. SILL RESTRAINT: ON A.C. PAVING AND ON SOIL 1" O.D. GALVANIZED PIPE AT 10'–0" 12" PENETRATION BELOW SURFACE VERTICALLY. DRILL SILL 1–1/4" MAX. PIPE MAY BE DRIVEN MAX. OF 45° ANGLE TO VERTICAL. (18–1/2" LONG PIPE REQUIRED FOR PENETRATION AT 45° ANGLE.)
2. ON CONCRETE PAVING HILTI DS 82–P10 THRU SILL PLATE:
   END WALLS: 8" O.C.
   SIDE WALLS: 22 "O.C.
3. WHERE SHIM STOCK IS REQUIRED FOR LEVELING USE 1/4", 1/2", OR 3/4" THICK PLYWOOD SAME WIDTH AS BLOCK. P.T.
4. VERIFY DRAINAGE TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. WITH DISTRICT ARCHITECT SITE PLANS
5. ALL FOUNDATION MATERIAL SHALL BE DOUGLAS FIR
   GROUND CONTACT: LP–22 (CCA .40)
   ABOVE GROUND: LP–2 (CCA .25)
6. ALLOWABLE SOIL BEARING: 1000 PSF
7. "MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH"

   THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

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VENT CALCS.

BLD'G SIZE 24' X 40'= 960
VENTILATION REQ'D 960 ÷ 150= 6.4SF
3"X6'–6" VENT=1.6255F X 4 = 6.5SF
3"X2'–0" = 0.5 SF X 2 = 1.0 SF
TOTAL VENTING PROVIDED = 7.5 SF

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AC 643
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FOUNDATION – WOOD SILL

24' X 40' 50 PSF LL

SCALE 1/4" = 1'

LICENSED ARCHITECT
FRED VINCENT HALLOCK
No. C-24628
12/31/01
RENEWAL DATE
STATE OF CALIFORNIA

LICENSED ARCHITECT
FRED VINCENT HALLOCK
No. C-24628
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Mechanical Engineer's Seal

~~Electrical Engineer's Seal~~

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MODTECH INC.
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FOUNDATION PLAN

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17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
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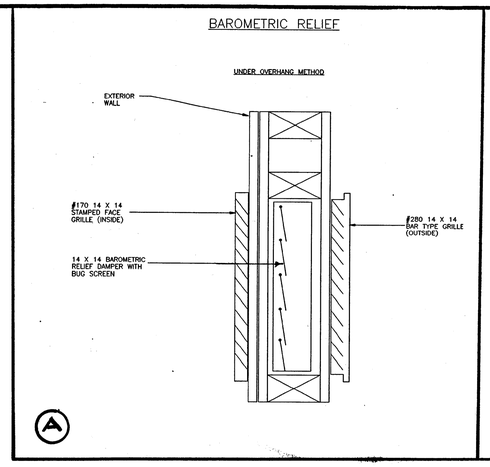
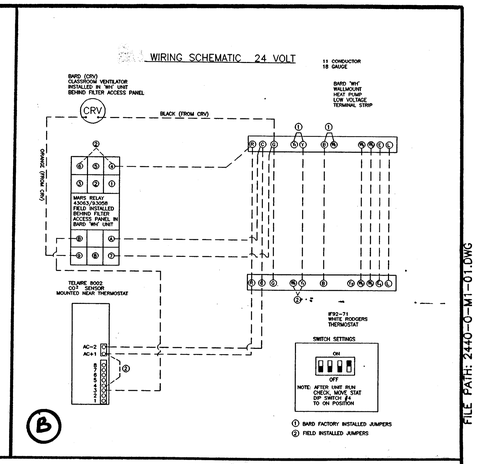
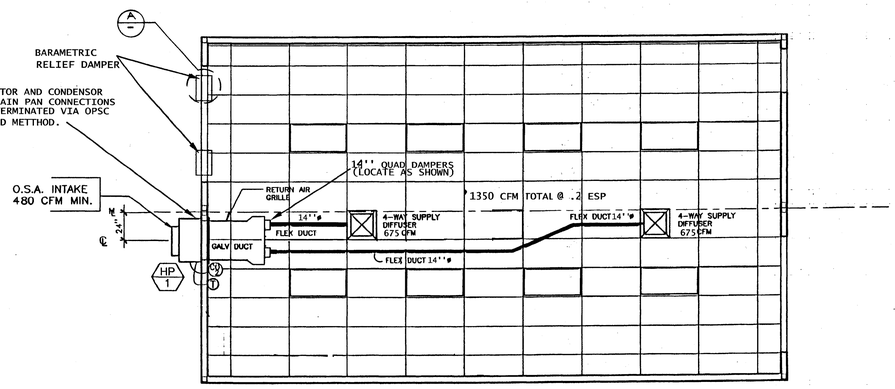


WIRING SCHEMATIC 24 VOLT





AIR CONDITIONING FLOOR PLAN – TYPE 1 BUILDING

1/4'' = 1'-0''

INSULATION APPLIED TO EXTERIOR SURFACE OF DUCTS LOCATED IN BLDGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 & A SMOKE-DENSITY NOT EXCEEDING 50 WHEN TESTED AS A COMPOSITE INSTALLATION. INCLUDING INSULATION, FACING MATERIALS, TAPES & ADHESIVES AS NORMALLY APPLIED.

HP 1

HEAT PUMP, 12 SEER, BARD WALL MOUNT, WH61-A10CP4 10 KW
58,000 NOMINAL BTUH COOLING CAPACITY @ 90 F OUTDOORS 80/67°F INDOORS
57,000 NOMINAL BTUH HEATING CAPACITY FROM COMPRESSOR
ADDITIONAL 34,170 NOMINAL BTUH HEATING FROM 10 KW AUX. HEAT STRIP @ 240V.
DUAL CIRCUIT:
CIRCUIT A: MCA 52 MDCP 60 WIRE SIZE #6
CIRCUIT B: MCA 52 MDCP 60 WIRE SIZE #6
1350 CFM @ .2 ESP, UNIT WT. 510lbs.
230V, 60 CYCLE, SINGLE PHASE

DUCTWORK: GALV. IRON PLENUM 60" WITH
GALV. IRON REGISTER BOXES
GAGE PER ASHRAE CODE REQUIREMENTS
FLEX DUCT PER CODE AND
SIZING PER .1" S.P.
INSULATE WITH 1" LINER INSULATION
PER: SPECIFICATIONS SECTION #3.23.2.1

CONTROLS: PER SPECIFICATION AND TITLE 24

AIR BALANCE: PER SPECIFICATIONS

OUTSIDE AIR INTAKE: PROVIDE 15 CFM x 32 = 480 CFM MINIMUM

T THERMOSTAT: WHITE RODGERS IF92 PROGRAMMABLE OR EQUAL W/LOCKABLE COVER , OPSC INSTRUCTION PLATE INSTALLED ON STAT

CO_2 CO2 SENSOR: TELAIRE, 8002 PROGRAMMABLE W/WIRE GUARD

NOTES

1. INSULATION APPLIED TO EXTERIOR SURFACE OF DUCTS LOCATED IN BLDGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE-DENSITY NOT EXCEEDING 50 WHEN TESTED AS A COMPOSITE INSTALLATION. INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED

2. SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE MECHANICAL ENGINEER'S INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENT SHALL CONFORM CCR TITLE 24, SECTION 1632A AND TABLE 16A-O. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS AND HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	30% OF OPERATING WEIGHT

FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 TIMES THE ABOVE VALUES AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 TIMES THE HORIZONTAL FORCE.

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE , Z = 4

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER AND THE FIELD ENGINEER OF THE OFFICE OF THE STATE ARCHITECT.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 103216
AC FLS SS
DATE 6/4/10

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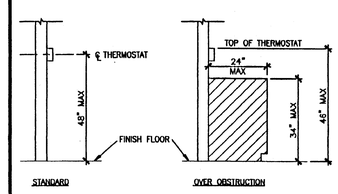
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 102499
AC FLS SS
DATE AUG 4 2010



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CBC 1998

LICENSED ARCHITECT JAMES L. MALLOCH No. C-24608 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

LICENSED ARCHITECT JAMES L. MALLOCH No. C-24608 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

LICENSED ARCHITECT No. C-24608 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
10419
AC FLS SS
DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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MODTECH Index No.

MECHANICAL PLAN 5 TON

M1.01

PROJECT NO. PC-04-101419

FILE PATH: 2440-G-M1-01.DWG

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R221551X01

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2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
MECHANICAL PLAN (5 TONS)

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

M1.01

Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
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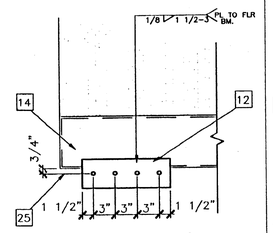
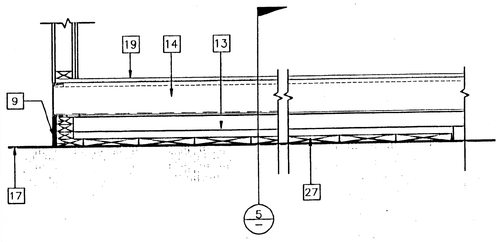
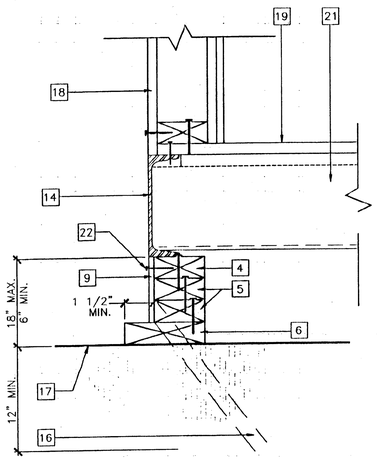


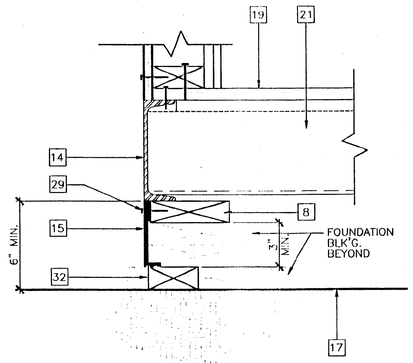
9 SCALE: 1 1/2"=1'-0"
ALTERNATE TIE PLATE



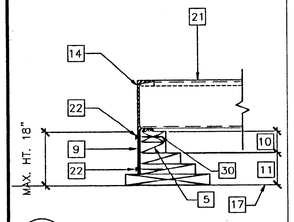
6 SCALE: 1 1/2"=1'-0"
MODLINE PAD @ END WALL



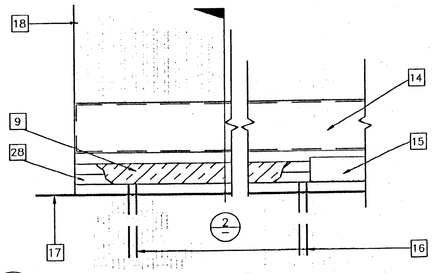
3 SCALE: 3"=1'-0"
FOUNDATION @ END WALL



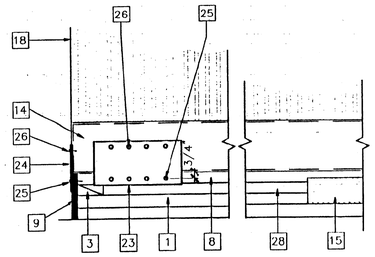
1 SCALE: 3" = 1'-0"
FOUNDATION VENT



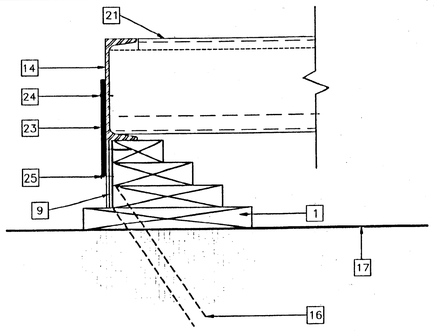
10 SCALE: 1 1/2"=1'-0"
ADD BLK'S/SHIMS TO LEVEL FOUND.



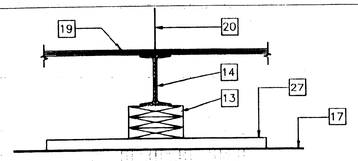
7 SCALE: 1 1/2"=1'-0"
FOUNDATION ELEVATION @ SIDE WALL



4 SCALE: 1 1/2"=1'-0"
DETAIL @ FOUNDATION CORNER



8 SCALE: 3"=1'-0"
TYPICAL TIE PLATE



5 SCALE: 1 1/2"=1'-0"
FOUNDATION PAD @ MODLINE

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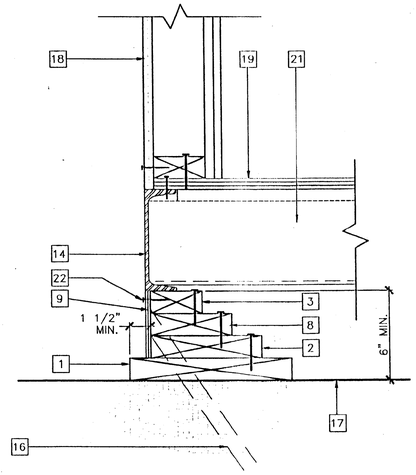

2 SCALE: 3" = 1'-0"
FOUNDATION @ SIDE WALL

KEY NOTES

1. 2X12 SILL PLATE SEE FOUND. PLAN FOR LENGTH
2. 2X8 TOP PLATE W/16d AT MAX. 5" O.C. TO SILL PLATE
3. 2X4 CONT. TOP PLATE W/16d AT MAX. 12" O.C.
4. 2X4 TOP PLATE CONT. W/16d AT MAX. 12" O.C.
5. 2X4 BLOCKING W/16d MAX. 12" O.C. TO SILL PLATE
6. 2X6 CONT. SILL PLATE
7. NOT USED
8. 2X6 BLOCKING W/16d AT MAX. 12" O.C.
9. MIN. 5/8" PLYWOOD SKIRTING W/10d BOX @ MIN. 4" O.C. AT ENDWALLS & 6" O.C. AT SIDEWALLS E.N. & TYP. 12" O.C. FN.
10. ADD BLOCKING OR SHIMS AS REQ. TO MAX. HT. SEE DETAIL #2
11. MIN. FOUNDATION HEIGHT. SEE DETAIL #2
12. 10 GA. PLATE 4" X 12"
13. 2X8 BLOCKING FACE OR TOE NAIL 16d AT MAX. 12" O.C. ADD BLKS. OR SHIMS AS REQ'D
14. FLOOR FRAME BEAM. SEE STRUCTURAL
15. VENT MIN. 3" X 6'-6" TYP. 4-PLACES = 6.5 SF. 2 VENTS AT 3" X 2'-0" = 1.0 SF. = 7.5 SQ. FT. TOTAL
16. SILL RESTRAINT 1" DIA. PIPE. SEE FOUND. PLAN FOR LOCATION - 24" LONG
17. FINISH GRADE
18. EXTERIOR FINISH
19. PLYWOOD SUBFLOOR
20. MOD-LINE
21. FLOOR-JOIST
22. EN SEE NOTE #9
23. 6" X 12" X 10GA. PLATE W/(4) #10 SMS TO FLR & (4)1/4" DIA. X 3" LAG TO FOUND. TOP PLATE
24. 6" X 12" X 10 GA. PLATE
25. 1/4" DIA. X 3" LG. LAG SCREW TYP. 4-PLACES
26. #10 S.T.S. TYP. 4-PLACES
27. 2" X 12" X 2'-6" SILL PLATE. SEE FOUND. PLAN FOR QUANTITY REQ'D
28. 2X8 BLOCKING W/16d AT MAX. 6" O.C. MIN. 3 PER BLOCK. (MAY VARY ACCORDING TO SITE)
29. 10d GALV. BOX NAIL AT MAX. 4" O.C.
30. INSERT REQ'D 2X4 BLOCKING OR PLYWOOD SHIM W/16d AT 12" O.C. FACE NAIL
31. NOT USED
32. 2X4 P.T. BLOCK TO CLOSE OFF SPACE AND SUPPORT BOTTOM OF VENT

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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS 1 SS DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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CHECKED BY: SS DATE: 10/22/99
MODTECH Index No.

FOUNDATION DETAILS w/ 4 PLATES

F2.01

FILE PATH: 2440-0-F2-01.DWG

PROJECT NO. PC-04-101419

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R221551X01
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916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FOUNDATION DETAILS (W/ 4 PLATES)

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CONSTRUCTION DOCUMENTS

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DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

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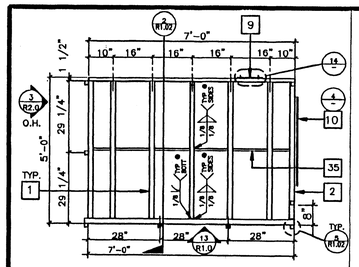
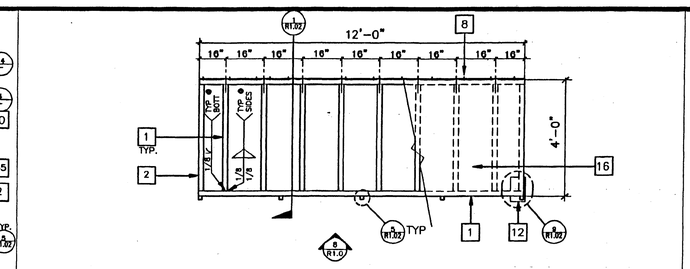


LANDING FRAME 12



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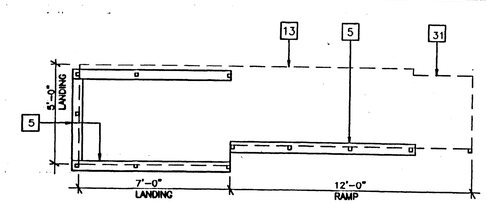
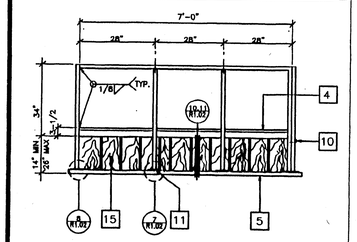
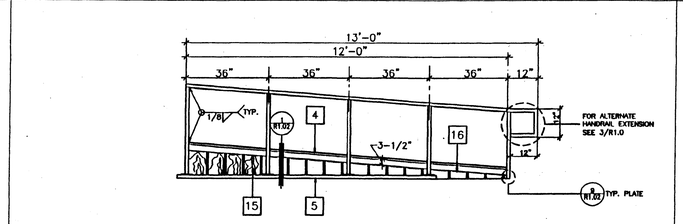


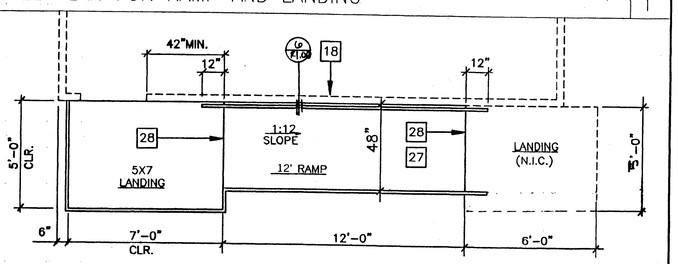
SILL PLAN FOR RAMP AND LANDING 3/8" 1



LANDING ELEVATION 13



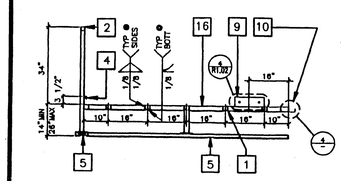
RAMP ELEVATION 8



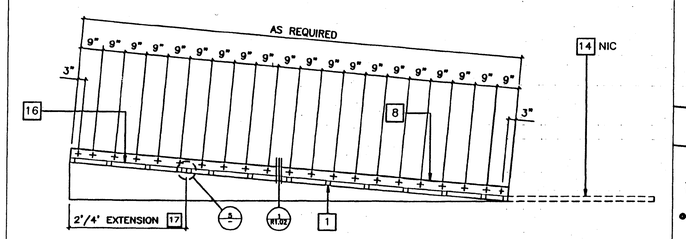
RAMP AND LANDING AT BUILDING 3/8" 2

KEY NOTES

1. TS 2" x 2" x 14ga
2. TS 1 1/2" x 1 1/2" x 14ga (Fy = 39KSI)
4. TS 1" x 1" x 16ga WHEELCHAIR GUIDE
5. 2 x 6 PT SILL PLATE
8. 6" x 10ga CONT. PLATE W/ 1/4" X 2" TEK SCREWS @9"OC INTO WOOD OR FOUND. BLOCKS OR #14 x 2" TEK SCREWS INTO STEEL @ 9" OC
9. 6" x 12" x 10ga PLATE W/2-1/4" x 3" LAGS TO STRUCTURAL FRAME OF BUILDING
10. 3" x 1" x 3'-0" x 10ga BENT PLATE
11. 2" x 4" x 12ga BASE PLATE W/2-1/4" x 1" LAGS
12. 6" x 10" x 12ga BASE PLATE @ RAMP TOE
13. LINE OF RAMP/LANDING ABOVE
14. LOWER LANDING BY DISTRICT
15. SKIRTING: PLYWOOD TO MATCH BUILDING SIDING. BLOCK ALL EDGES. ATTACH W/ 8d @ 6" OC EDGES AND 12"OC FIELD. AT EDGE CONNECTION TO T.S. USE #14 x 2" TEK SCREWS @ 6"OC
16. 12ga METAL DECK: NON-SLIP SURFACE. DESIGN COEFFICIENT OF FRICTION GREATER THAN 6%. MAINTAINABLE FOR 1 YR.
17. RAMP EXTENSION FRAME.
18. EXISTING BUILDING.
27. RAMP BY MODTECH
28. FLUSH TRANSITION
31. NOTCH BOTTOM PLATE (MUD SILL) AS REQUIRED TO CLEAR RAMP TOE. MAX NOTCH 1 1/2" x 4'-0" LONG.
35. TS 1" x 1" x 16ga



LONG. SECTION @ LANDING 14



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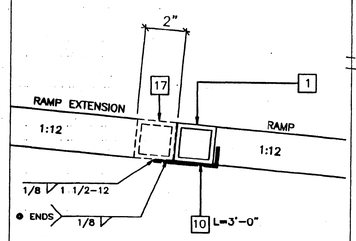
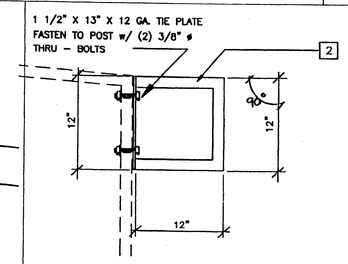
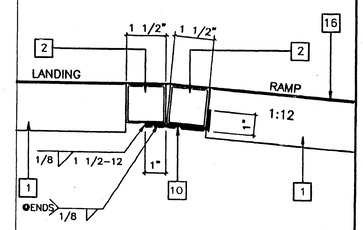


RAMP EXTENSION TO RAMP 5



GUARD RAIL EXTENSION 3



LANDING TO RAMP 4

NOTES

1. RAMPS: RAMPS SHALL NOT SLOPE MORE THAN 1" IN 12"
2. HANDRAILS: HANDRAILS AT BOTH SIDES OF RAMP AT 34" HT.
3. SURFACE: LANDING & RAMP TO HAVE NON SLIP SURFACE AMCOR GRIP II AS MANUFACTURED BY AMERICAN CHEMICAL COMPANY (OR EQUAL)
4. GROUNDING: PROVIDE GROUNDING OF RAMP TO BLDG FRAME W/#8 CU TO BOTH GROUND LUGS.
5. ARCHITECT SITE / RAMP / LANDING PLANNING: DUE TO VARYING SITE CONDITIONS THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 26" THEREFORE IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE BUILDING COULD BE 26'-0" AT A SLOPE OF 1:12 ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY MODTECH INC. IS 11'-0" AT A SLOPE OF 1:12 THEREFORE THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONS AND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS. IN NO WAY IS MODTECH INC. RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING THE ORIGINAL PLAN AS SHOWN ON SHEET R-1.
6. ALL 1 1/4" AND 1 1/2" TUBE STEEL TO BE OF ASTM A500 GRADE A STEEL (Fy = 39 KSI)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS SS DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102490 AC FLS SS DATE AUG 2 4 2000

LICENSED ARCHITECT JAMES VINCENT VALLOCI No. C-24828 12/31/04 RENEWAL DATE STATE OF CALIFORNIA

LICENSED ARCHITECT JAMES VINCENT VALLOCI No. C-24828 12/31/04 RENEWAL DATE STATE OF CALIFORNIA

PC
CBC 1998

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Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

LICENSED ARCHITECT JAMES VINCENT VALLOCI No. C-24828 10/31/01 RENEWAL DATE STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC. DATE OCT 23 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE:
CHECKED BY: SS DATE: 10/22/99

MODTECH Index No.

RAMP/LANDING 12' RAMP

R1.01

PROJECT NO. PC-04-101419

FILE PATH: 2440-0-DWG

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916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
RAMP/LANDING (12' RAMP)

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

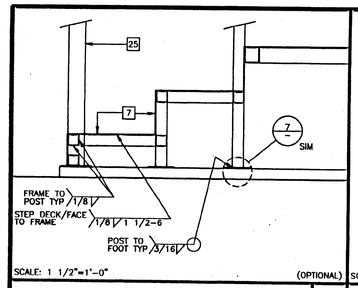
SHEET:

R1.01

THE LINE SHOWN ABOVE IS EXACTLY 1 INCH WHEN PLOTTED ON THIS SHEET'S ORIGINAL PAGE SIZE

Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
10/26/2023 1:32:08 PM

PLEASE RECYCLE



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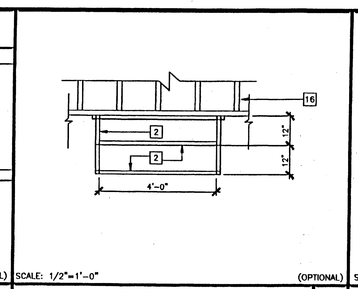
STAIR SECTION 16



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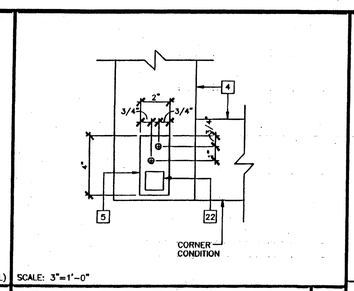
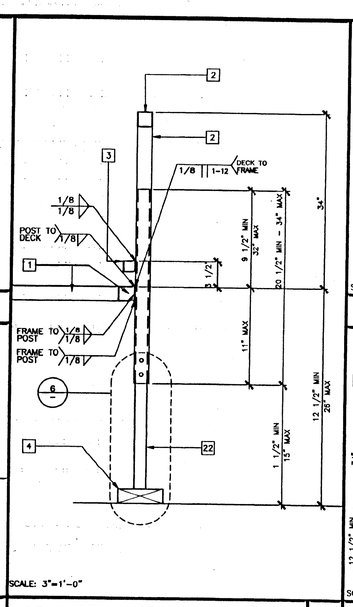
STAIR FRAMING PLAN 12



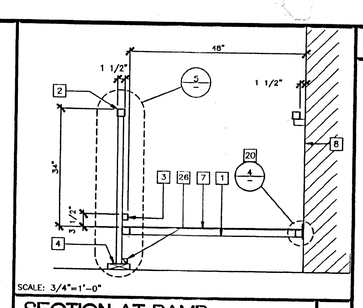
SCALE: 3"=1'-0"

ADJUSTABLE LEG BASE PLATE 8



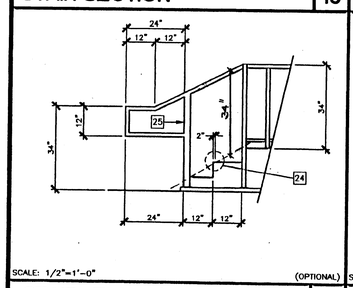
SCALE: 3"=1'-0"

ADJUSTABLE LEG 5



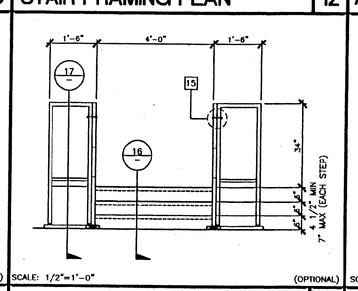
SCALE: 3/4"=1'-0"

SECTION AT RAMP 1



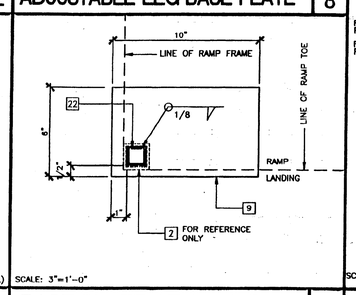
SCALE: 1/2"=1'-0" (OPTIONAL)

STAIR ELEVATION 17



SCALE: 1/2"=1'-0" (OPTIONAL)

STAIR ELEVATION 13

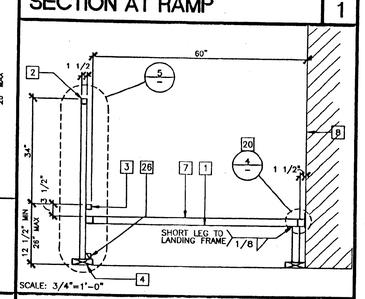


SCALE: 3"=1'-0"

BASE PLATE AT RAMP TOE 9

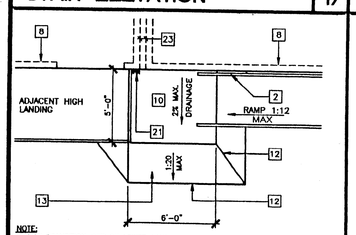
SCALE: 3"=1'-0"

ADJUSTABLE LEG 5



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

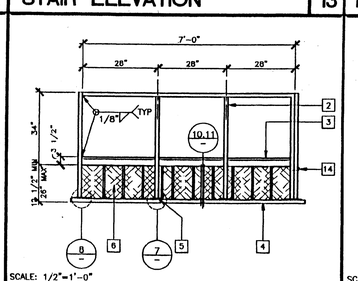
SECTION AT LANDING 2



NOTE:
1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAILS. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING BY DISTRICT

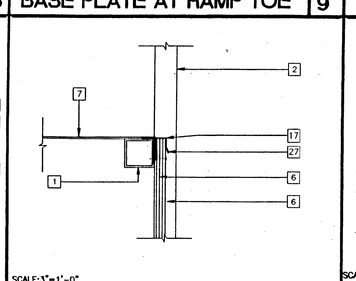
SCALE: NTS (BY DISTRICT)

RAMP TRANSITION 18



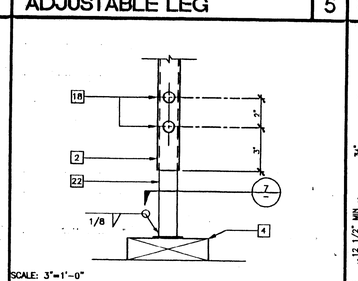
SCALE: 1/2"=1'-0"

LANDING ELEVATION 14



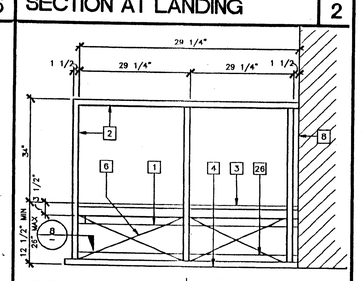
SCALE:3"=1'-0"

SKIRT FLASHING 10



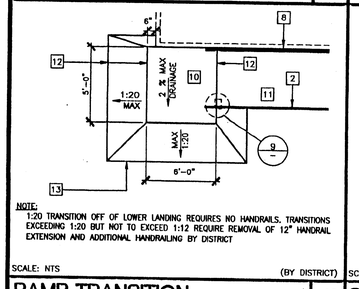
SCALE: 3"=1'-0"

ADJUSTABLE LEG 6



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

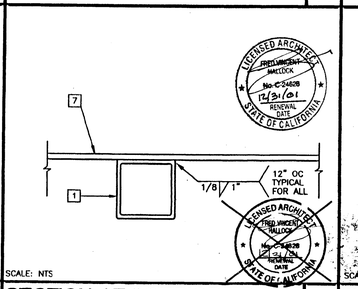
END ELEVATION 3



NOTE:
1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAILS. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING BY DISTRICT

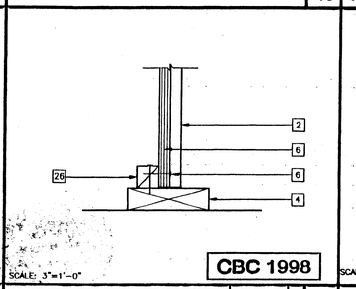
SCALE: NTS (BY DISTRICT)

RAMP TRANSITION 19



SCALE: NTS

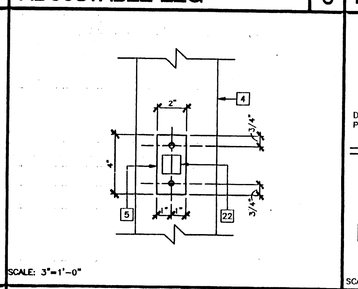
SECTION AT INTERIOR FRAME 15



SCALE: 3"=1'-0"

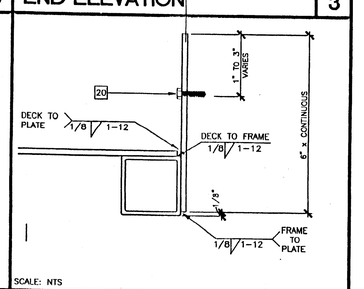
CBC 1998

SKIRT AT SILL PLATE PC 11



SCALE: 3"=1'-0"

ADJUSTABLE LEG BASE PLATE 7



SCALE: NTS

SECTION AT PLATE 4

KEY NOTES

1. TS 2"x2"x14 GA
2. TS 1 1/2"x1 1/2"x14 GA (Fy = 39 KSI). ROUNDED OR BEVELED AT CORNERS.
3. TS 1"x1"x16 GA WHEELCHAIR GUIDE
4. 2"x6" PRESSURE TREATED SILL PLATE
5. 2"x4"x12 GA BASE PLATE WITH 2-1/4"x1" LAGS
6. SKIRTING: PLYWOOD TO MATCH BUILDING SIDING. BLOCK ALL EDGES. ATTACH WITH 8d AT 6" OC EDGES AND 12" OC FIELD. AT EDGE CONNECTION TO TS. USE #14x2" TEK SCREWS AT 6" OC
7. 12GA METAL DECK: NON-SLIP SURFACE. DESIGN COEFFICIENT OF FRICTION GREATER THAN 6%. MAINTAINABLE FOR 1 YR. PROVIDE ROUNDED OR BEVELED EDGES ON STAIR NOSING.
8. EXISTING BUILDING.
9. 6"x10"x12 GA BASE PLATE AT RAMP TOE.
10. LOWER LANDING BY DISTRICT
11. RAMP BY MODTECH
12. FLUSH TRANSITION
13. PAVE BY DISTRICT
14. 3"x1"x3'-0"x10 GA BENT PLATE
15. FASTEN POSTS WITH 3/8" DIA THRU BOLT, TYPICAL
16. RAMP LANDING, TYPICAL
17. 26 GA FLASHING
18. 3/8" DIAx2" LONG MB WITH NUT & WASHERS
19. CAULKING
20. 6"x10GA CONTINUOUS PLATE WITH #14x2" TEK SCREWS AT 9" OC INTO WOOD OR FOUNDATION BLOCKS OR #14x2" TEK SCREWS INTO METAL AT 9" OC
21. PROVIDE DIVERSION FOR WATER FROM DOWNSPOUT FOR THIS CONDITION. BY DISTRICT
22. TS 1 1/4"x1 1/4"x14 GA (Fy = 39 KSI)
23. 4" MINIMUM BUILDING SEPARATION
24. 2" SLIP RESISTANT WARNING STRIPES MAX 1" FROM EVERY STAIR NOSING. USE CONTRASTING COLOR.
25. TS 2 1/2"x1 1/2"x8 GA ASTM A500 GRADE A
26. 2"x2" NAILER WITH 16d AT 12" OC
27. 26 GA GALV. FLASH

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102990 FLS / SS DATE AUG 24 2001

FILE PATH: 2440-0-R1.02.DWG

PROJECT NO. PC-04-101419

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal — LICENSED ARCHITECT FRED VINCENT HALLOCK No. C-24628 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 FLS SS DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: JK DATE: 2/21/01
CHECKED BY: SS DATE: 10/22/99
MODTECH Index No.

RAMP/LANDING DETAILS

R1.02

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HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAY C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
RAMP/LANDING DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

R1.02

THE LINE SHOWN ABOVE IS EXACTLY 1" WHEN PLOTTED ON THIS SHEET'S ORIGINAL PAGE SIZE

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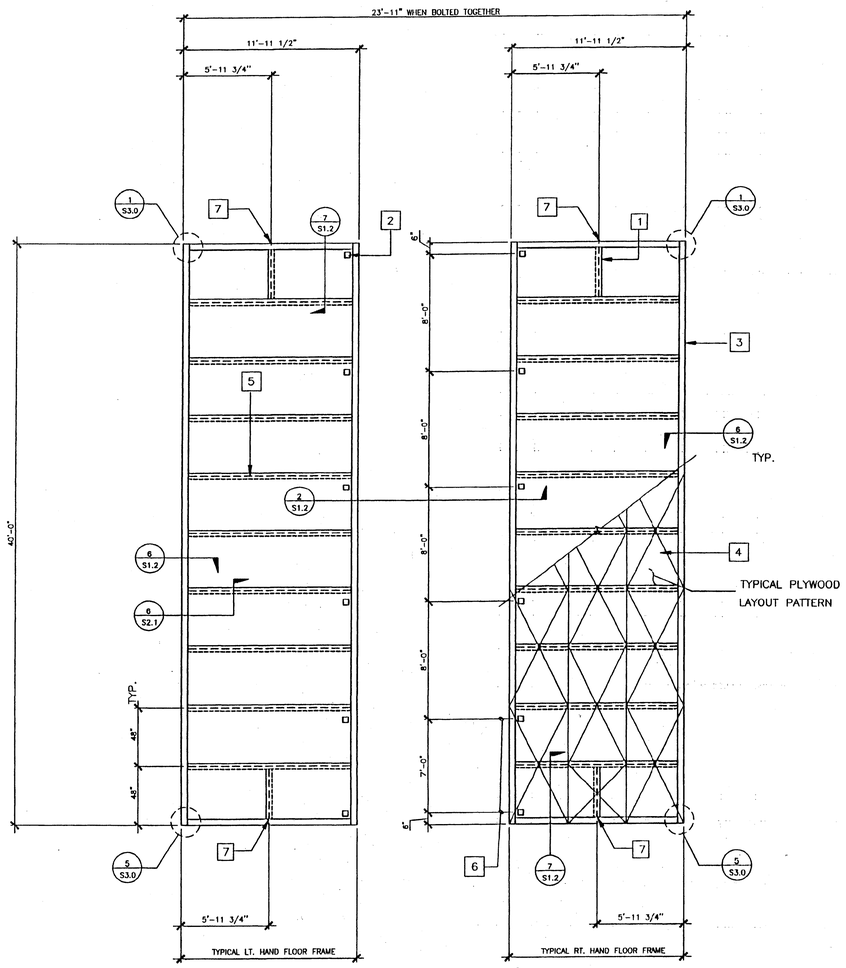

FLOOR JOIST TABLE

LIVE LOAD	∫ 6 3/8"X2 1/2" 12GA.
50 P.S.F.	48" O.C.

KEY NOTES

1. ⌊ 6 3/8 X 2 1/2 X 12GA. BLOCKING AT MIDSPAN OF FLOOR HDR. TYPICAL
2. 5" DIA HAND HOLES AT BOLT BM TO BM (12 PLACES) OPTIONAL 5" SQUARE HOLE
3. C 7X9.8 PERIMETER CHANNEL (TYPICAL) SEE 5/S2.1
4. PLYWOOD FLOOR SHEATHING: APA PS 1-83 1 1/8" THICK, STURD-I-FLOOR OR EQUAL W/48" O.C. SPAN RATING, ATTACHED W/#10 X 1 3/4" SELF-TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME, AEROSMITH AKN 144.0175 DRIVE PINS AT 6" O.C. SUPPORTED EDGES AND 6" O.C. FIELD TO JOIST. (TYPICAL) SEE 10/S2.1
5. ⌊ 6 3/8 X 2 1/2 X 12GA. FLOOR JOIST AT 48" O.C.
6. TYPICAL BOLT HOLE LOCATION (SEE 2/S1.2)
7. 1"ø HOLE @ MID-DEPTH FOR HANDLING

NOTES

1. FOR L HAND & R HAND FRAME SEE S1.0
2. WELDING FIT-UP: OPENINGS = $\frac{t}{2}$ OR 1/8" MIN FOR FULL PEN AND
   t = BASE METAL THICKNESS

FILE PATH: 2440-0-S1-0.DWG

FLOOR FRAMING PLAN

SCALE 1/4"=1'-0"

FLOOR LIVE LOAD - 50 PSF

PC

CBC 1998

REVISIONS	Electrical Engineer's Seal	Mechanical Engineer's Seal	Structural Engineer's Seal	Architects Seal	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419
1					
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MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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FLOOR FRAMING PLAN

PROJECT NO. PC-04-101419

AGENCY APPROVAL:

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HMC Architects

R221551X01

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FLOOR FRAMING PLAN

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

S1.0

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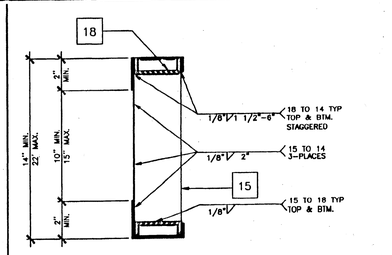
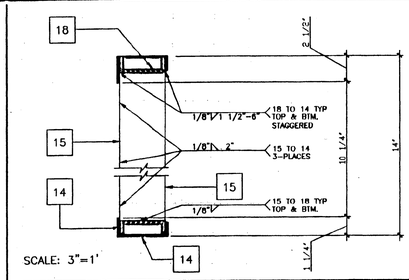


SCALE: 3"=1'

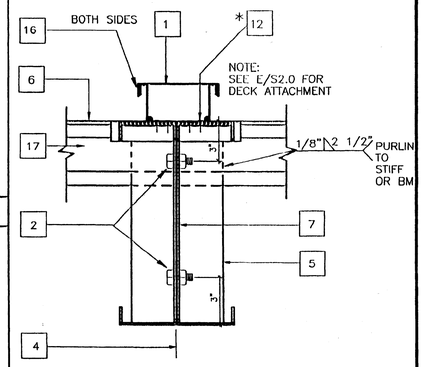
SEE MECH. PLAN FOR LOCATION

MECH. DUCT OPENING IN ROOF BM. 8



SCALE: 3"=1'

MECH. DUCT OPENING IN HEADER 4

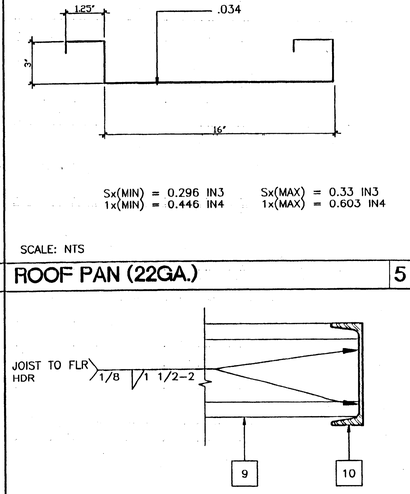


SEE 9/S2.1 FOR TYP. WELD STIFFENER TO BEAM

* DO NOT PENETRATE METAL ROOF DECK

SCALE: 3"=1'

ROOFING • MODLINE 1



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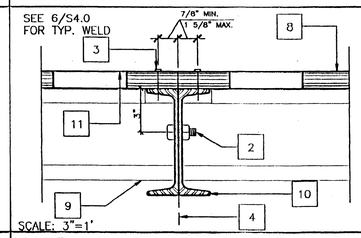
$I_x(MIN) = 0.446\ IN^4$ $I_x(MAX) = 0.603\ IN^4$

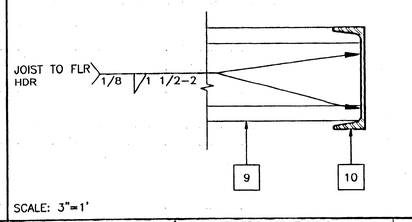
SCALE: NTS

ROOF PAN (22GA.) 5



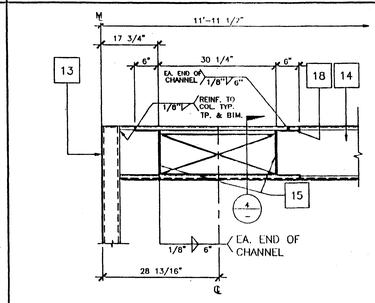
SCALE: 3"=1'

MODULE JOINT AT FLR. 12'-0" 2



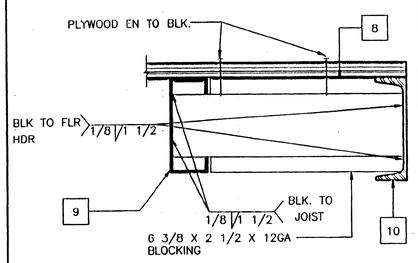
SCALE: 3"=1'

FLOOR FRAME/JOIST TO BEAM 6



SCALE: 1"=1'

ELEVATION-OPENING 3



SCALE: 3"=1'

BLOCK AT MIDSPAN 7

KEY NOTES

1	CAP CLOSURE AT RIDGE 26GA. GALV. W/#10 TYPE FASTENERS W/NEOPRENE WASHERS TO RIB BOTH SIDES OF MODLINE. SET CAP IN SEALANT. BOTH SIDES.
2	5/8" M.B. A307 MODULE JOINT (SEE STRUCTURAL PLAN FOR LOCATION) AT 8" O.C.
3	E.N.
4	MODULE JOINT
5	14" THK X 3" FULL DEPTH STIFFENER PLATE AT RIDGE ONLY (SEE 9/S2.1)
6	STANDING ROOF SEAM (SEE A2.0)
7	ROOF BEAM SEE 1/S2.1 & 7/S2.1
8	PLYWOOD FLOOR SHEATHING
9	FLOOR JOIST SEE 6/S2.1
10	FLOOR BEAM SEE 5/S2.1
11	HAND HOLE AT BOLT LOCATION
12	#14 STSMS.
13	3 1/2"X3 1/2"X1/4" STEEL TUBE COLUMN. SEE 12/S2.1
14	ROOF HEADER SEE 3/S2.1
15	1/4" STIFFENER PLATE SEE 9/S2.1 FOR TYP. WELD
16	SEALANT
17	ROOF PURLIN SEE 2/S2.1
18	3 1/4" X 1" X 45 11/16" LG X 10GA CHANNEL TOP AND BOTTOM OF OPENING

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CBC 1998

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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

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MODTECH INC.
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PH (909) 943-4014
FAX (909) 940-0427

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STRUCTURAL DETAILS

S1.2

FILE PATH: 2440-C-S1-2.DWG

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Δ	DESCRIPTION	DATE

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LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FLOOR FRAMING PLAN

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 CLIENT PROJ NO: R221551X01

SHEET:

S1.2

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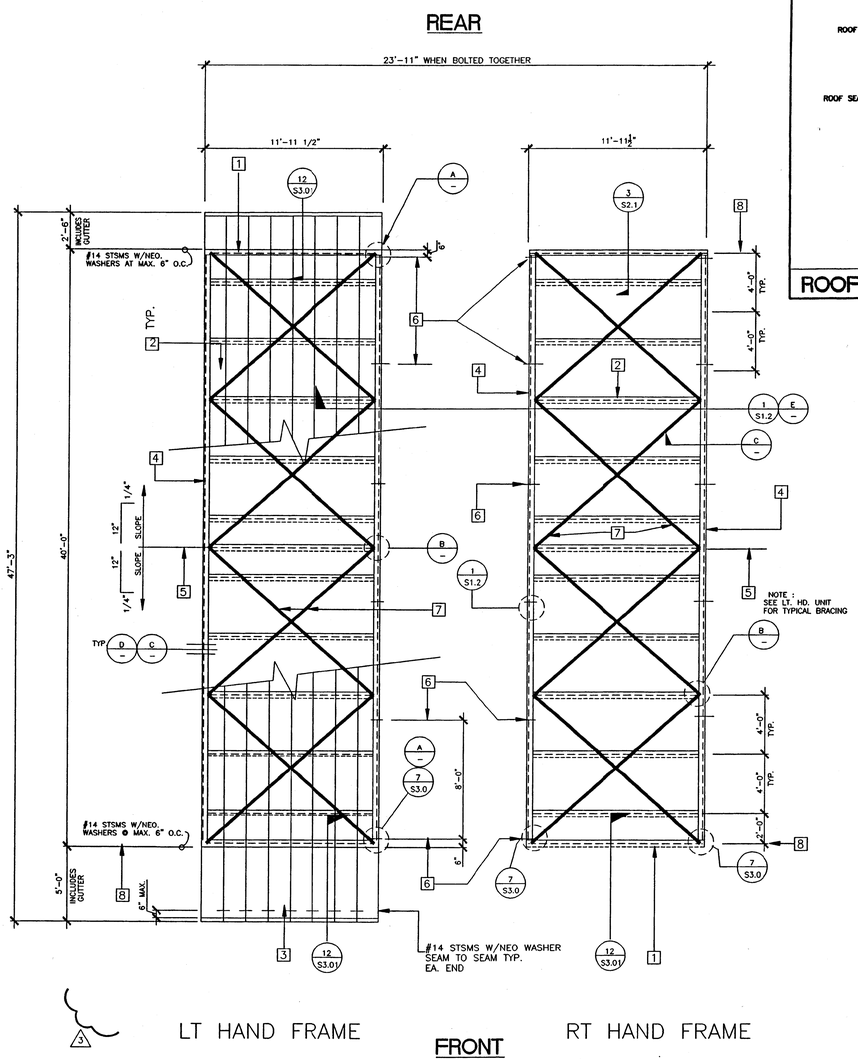
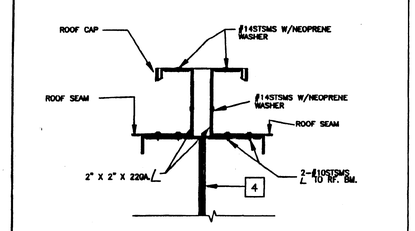
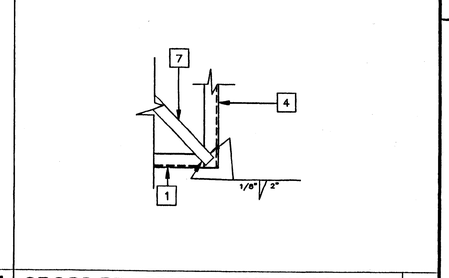


ROOF FRAMING PLAN - DUAL PITCH

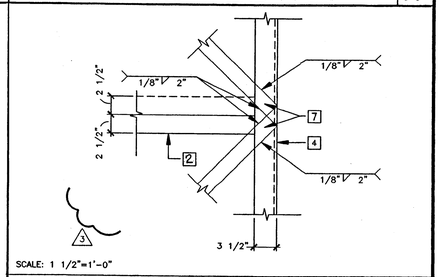
SCALE 1/4"=1'-0"



ROOF CAP AT MODLINE (ALTERN.) E



CROSS BRACING AT END WALL A



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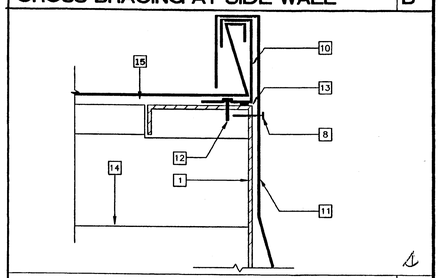
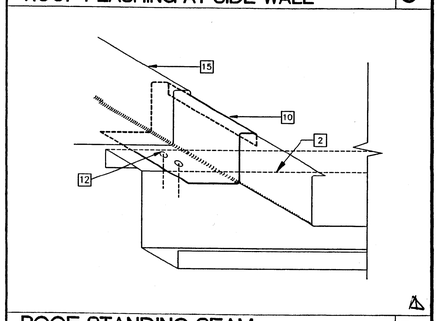


ROOF FLASHING AT SIDE WALL C



ROOF STANDING SEAM D

KEY NOTES

1. C 14x12 GA [HEADER
2. 6"x2 1/2"x14 GA ⌐ ROOF PURLIN SEE PLAN FOR SPACING
3. 22 GA STANDING SEAM ROOFING ATTACH ROOFING TO ROOF CLIP WITH #14x3/8" STSMS WITH NEOPRENE WASHERS SPACING AT 4'-0" OC
4. TAPERED ROOF BEAM 10 GA [SEE 7/S2.1
5. RIDGE LINE
6. 11/16 DIA DRILL SEE DETAIL 1/S1.2
7. 2"x20 GA STRAP CROSS BRACING TACK WELD TO EACH PURLIN
8. #14x3/4" STSMS AT ROOF HEADER WITH NEO. WASHER-3 PER PAN MAXIMUM 6" OC
9. [4"x2 1/2"x14 GA FASCIA SEE 4/S2.1
10. 22 GA STARTER/END ROOF CLIP - C/S2.01
11. 26 GA GALVANIZED IRON FLASHING AT SIDEWALL - C/S2.01
12. #10x3/4" STSMS HOLDING FLASHING INTO ROOF BEAM WITH NEOPRENE WASHER AT 24" OC
13. 1/4" CONTINUOUS BEAD OF SEALANT AROUND ENTIRE PERIMETER OF FRAME
14. ROOF PURLIN STR
15. 22 GA STANDING SEAM ROOF PAN

REVISED MAY 3 1 2001

REVISED DEC 9 1999

PC

CBC 1998

REVISIONS			
1		ADD PURLIN	
2	SP	REVISED KEY NOTE 12	3/15/01
3	SP	REVISED CROSS BRACING LOCATION AND REVISED DETAIL B	5/30/01
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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MODTECH Index No.

ROOF FRAMING PLAN W/O FASCIA

S2.01

PROJECT NO. PC-04-101419

FILE PATH: 2440-0-S2-01.DWG

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R221551X01

LICENSED ARCHITECT JEFFREY ALAN BEAD C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

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KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ROOF FRAMING PLAN (W/O FASCIA)

BID SET

CONSTRUCTION DOCUMENTS

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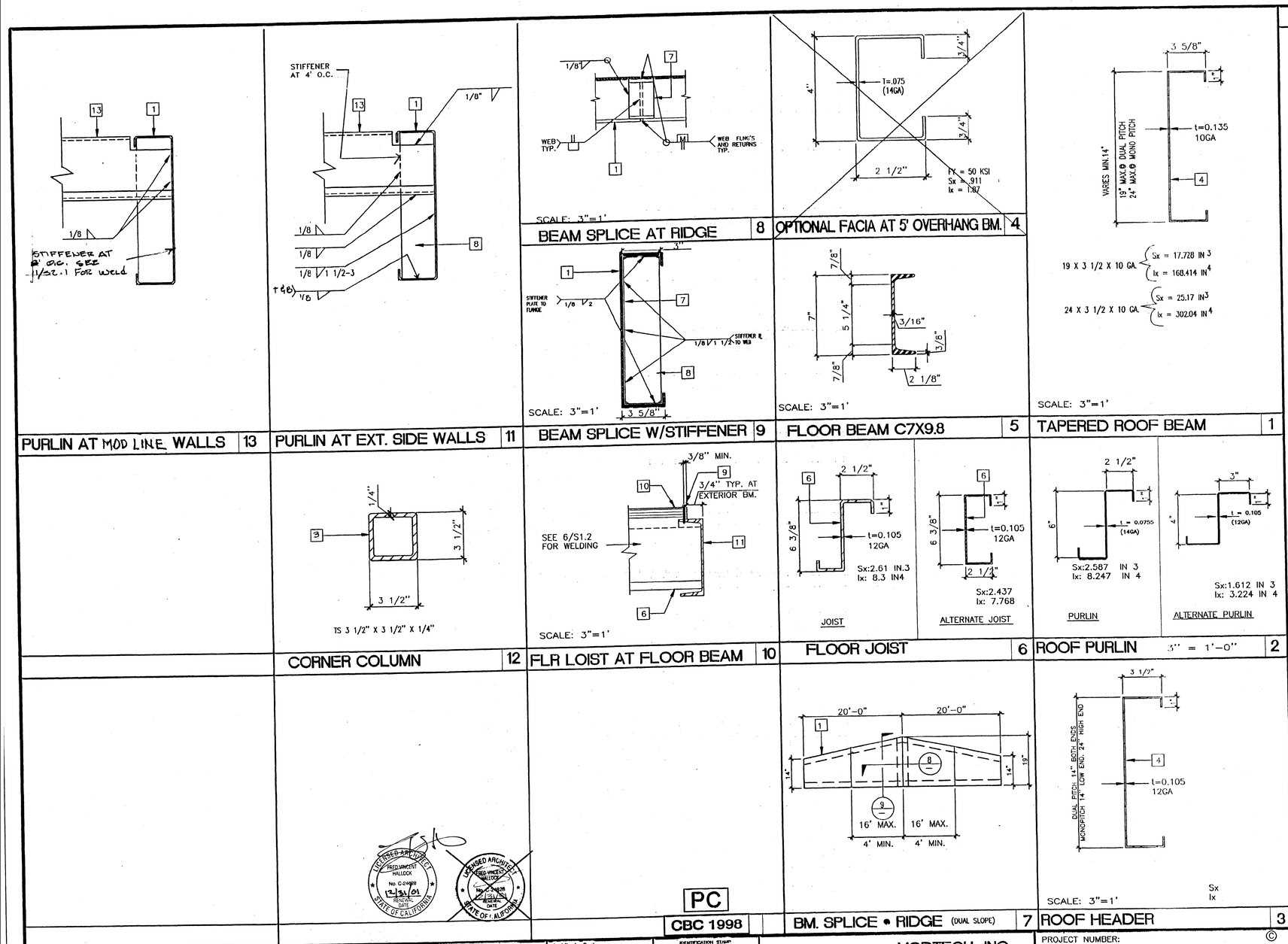

KEY NOTES

1. 10GA. TAPERED RF. BM. SEE 7/S2.1 &1/S2.1
2. NOT USED
3. TS 3 1/2"X3 1/2"X1/4" COLUMN
4. [14"X10GA. RF. HDR. SEE 3/S2.1
5. NOT USED
6. FLOOR JOIST SEE 6/S2.1
7. 10GA. BENT PLATE BACK-UP
8. STIFFENER PLATE 3"X1/4" THICK AT 4'-0" OC
9. #10 STSMS @ 6" O.C. (SEE S1.0)
10. PLYWOOD FLR. SHEATHING
11. FLOOR BEAM SEE 5/S2.1
12. NOT USED
13. ⌐ 6" X 2 1/2" X 14GA PURLIN
    ALT: ⌐ 4" X 3" X 12GA

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CBC 1998

REVISIONS

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

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MODTECH INC.
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FAX (909) 940-0427

PROJECT NUMBER:

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FILE PATH: 2440-0-S2-1.DWG

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17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
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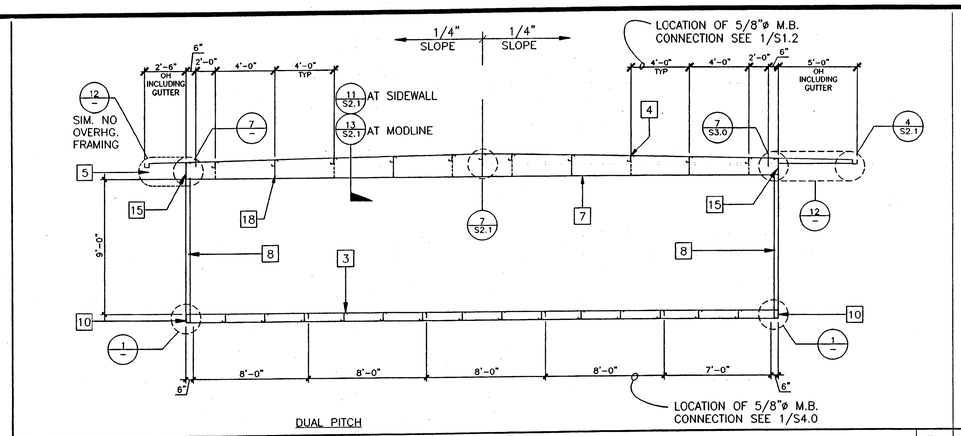
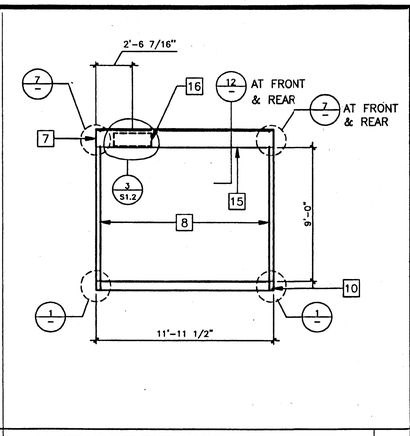
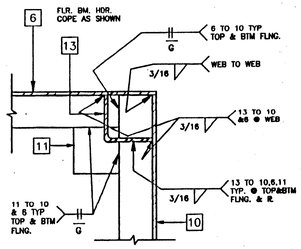


10 SECTION AT SIDEWALL



B SECTION AT ENDWALL A



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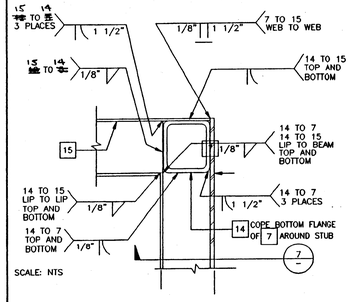
11 STIFFENER SECTION AT FLOOR 8



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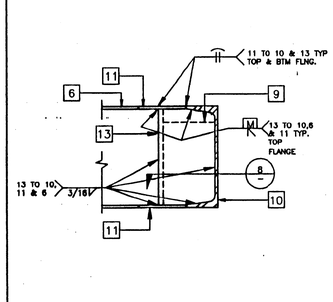
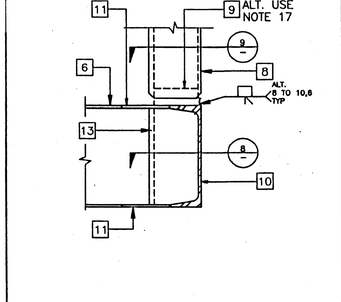
STIFFENER AT ROOF 6



SCALE: 3"=1'

COLUMN CONN. AT FLOOR 4



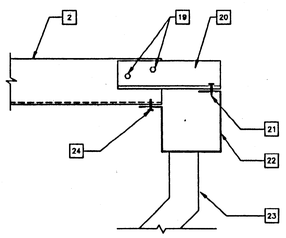
SCALE: 3"=1'

COLUMN CONN. AT FLR. 1

KEY NOTES

1. EN ⊕ PLYWOOD EDGES
2. 22GA STANDING SEAM ROOF
3. 6 3/8"X2 1/2"X12GA. FLR. JOIST 6/S2.1
4. 6X2 1/2"X14GA. ROOF PURLIN 2/S2.1
5. 3"X3"X3"X26GA ROOF END CLOSURE W/#10 STSMS W/NEOPRENE WASHER TOP & BOTT.
6. [7 X 9.8 FLOOR HEADER
7. [10 GA. TAPERED ROOF BEAM (SEE 3/S2.1) OR 12/S2.1 REFER TO RF. FRAMING PLAN
8. T.S. 3 1/2"X3 1/2"X1/4" COLUMN
9. BACK-UP PLATE MIN. 10 GA.
10. [7X9.8 FLOOR CHANNEL
11. 3 1/2"X3 1/2"X1/4" STEEL PLATE WELDED FLUSH TO TOP AND BOTTOM OF CHANNEL FLANGES
12. NOT USED
13. 3 1/2X3 1/2X1/4 STIFFENER ANGLE COPE TO FIT C7 X 9.8
14. STIFFENER TS 3 1/2X3 1/2X1/4
15. [14"X3 1/2"X12GA. HEADER (SEE 3/S2.1)
16. LOCATION OF HVAC OPENING (SUPPLY AIR OPENING - 9 7/8'' X 29 7/8'') (RETURN AIR OPENING-15 7/8'' X 29 7/8'')
17. 3"X3"X1/4" THICK X 1/2" LONG INSERT POS
18. 1/4" FULL DEPTH STIFFENER PLATE AT 4'-0" OC AT EXTERIOR SIDEWALLS ONLY FOR 80 MPH DESIGN WIND LOAD ONLY
19. #10 STSMS WITH NEOPRENE WASHER – GUTTER STRAP TO RIB OF ROOF PAN
20. 1 1/2"x1 1/2"x22 GA ANGLE GUTTER STRAP
21. #10 STSMS GUTTER STRAP TO GUTTER
22. 26 GA CONTINUOUS GUTTER
23. DOWNSPOUT
24. #10 STSMS – GUTTER TO ROOF PAN AT EACH SEAM

19. 1/4" BASE PLATE-INSERT FLUSH WITH STIFFENER TUBE
20. (1) 3"x3"x10 GA TUBE STEEL BACK-UP TUBE OR (4) 10 GA BACK-UP PLATES



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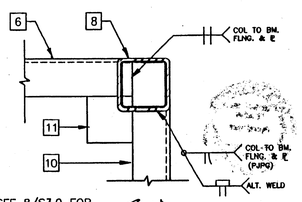
GUTTER AT ROOF OVERHANG 12

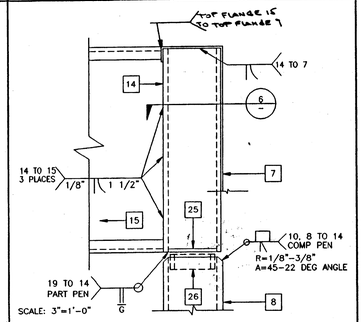
NOTE: GRIND ALL WELDS SMOOTH ALONG THE MODLINES FOR BOLTING.



SEE 8/S3.0 FOR WELDING

SCALE: 3"=1'

COLUMN AT FLOOR 9



SCALE: 3"=1'-0"

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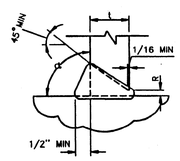
COLUMN AT ROOF 7



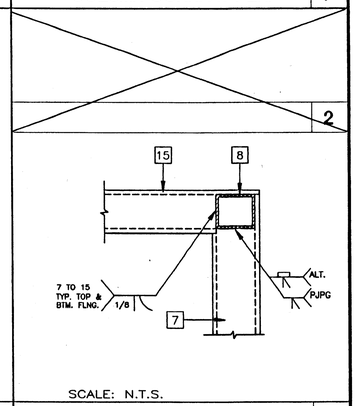
$\alpha = 90°$

WHEN $t = 1/4$": $g = \frac{1}{2}\ ^{+0}_{-1/16}$

WHEN $t = 1/8$": $g = g\ 1/16$ TO $3/16$

FIGURE L-1
PARTIAL JOINT PENETRATION GROOVE WELDS IN TRUSS CONNECTIONS OF HOLLOW STRUCTURAL SECTIONS

P.J.G.P. WELD DETAIL 5



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COLUMN AT ROOF BEAM 3

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REVISIONS		
1	ADDED PURLINS UP DATED DETAILS	
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MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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STRUCTURAL ELEVATIONS w/o FASCIA

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ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
STRUCTURAL ELEVATIONS (W/O FASCIA)

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CONSTRUCTION DOCUMENTS

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DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

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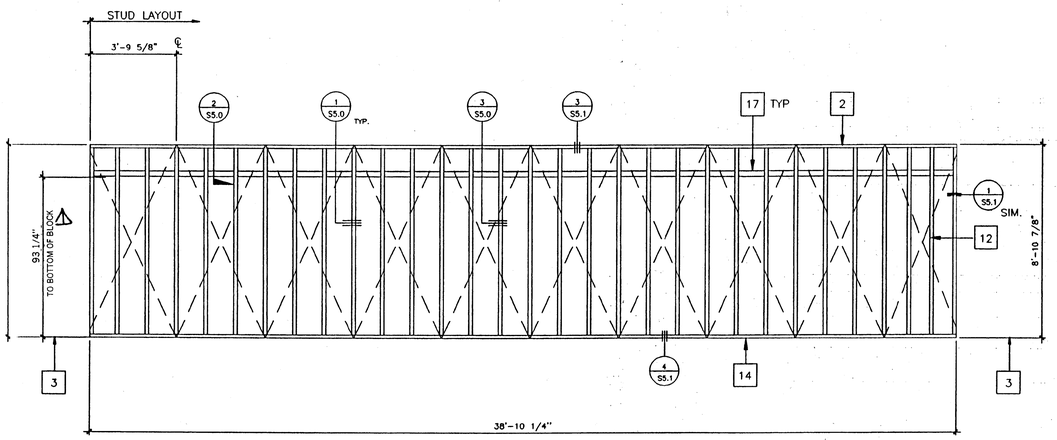

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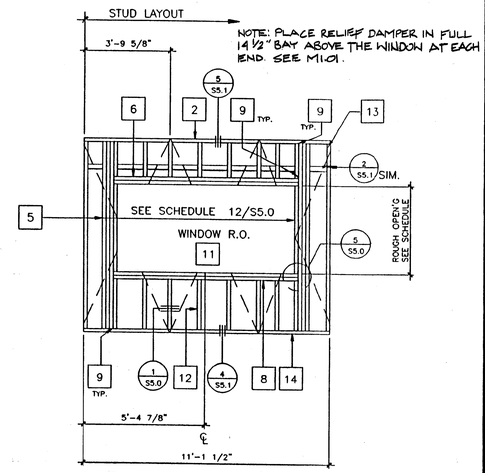

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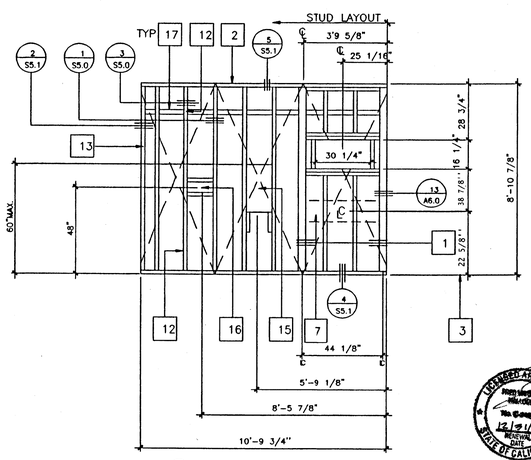

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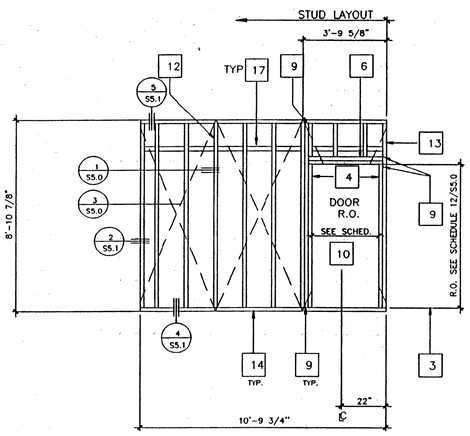

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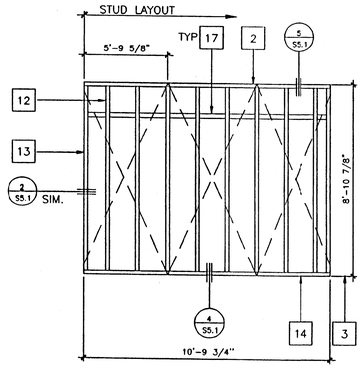

E

SCALE 3/8"=1'

KEY NOTES

1	4 X 4 POST ALT.:USE 2-2X4 W/FACE NAILING
2	2X4 TOP PLATE
3	FINISH FLOOR
4	2X4 FULL HGT. KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANTITY SHT S5.1)
5	FULL HEIGHT STUDS AND 1-2X4 TRIMMER (SEE WINDOW SCHEDULE FOR JAMB STUDS REQUIRED. SHEET S5.0.
6	HEADER (SEE SCHEDULE)
7	26GA X 4" WIDE STRAP
8	WINDOW SILL PLATE (SEE SCHEDULE)
9	A 34 CLIPS AT HEADER & SILL TO FULL HGT. STUDS AND FULL HGT. STUDS TO TOP AND BOTTOM PLATES.SEE 4/S5.0
10	REQUIRED OPENING FOR A 3068 DOOR (SEE DETAIL 7/S5.0)
11	REQUIRED OPENING FOR A 8040 WINDOW (SEE DETAIL 6/S5.0)
12	2X4 STUD AT 16" O.C. TYPICAL
13	2X4 NAILER TYPICAL AT EACH END
14	2X4 SILL PLATE
15	FRAME FOR ELECTRICAL PANEL
16	THERMOSTAT LOCATION 4S BOX
17	2"x4" BLOCKING

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AC FLS SS
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1	12/8/99	ADD BLOCKING	SS
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3			
4			
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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

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WALL FRAMING — WOOD STUDS

S4.0

FILE PATH: 2440-0-S4-0.DWG

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LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
WALL FRAMING (WOOD STUDS)

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

S4.0

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Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
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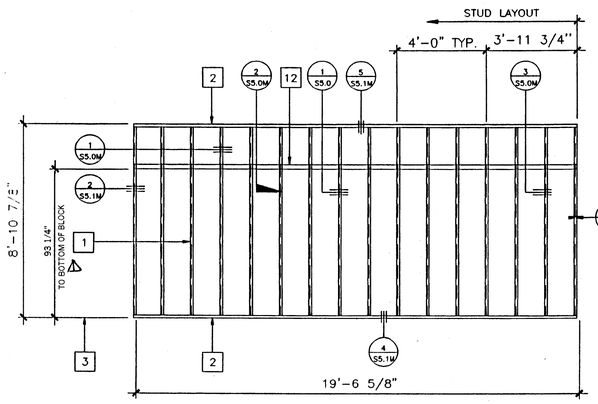

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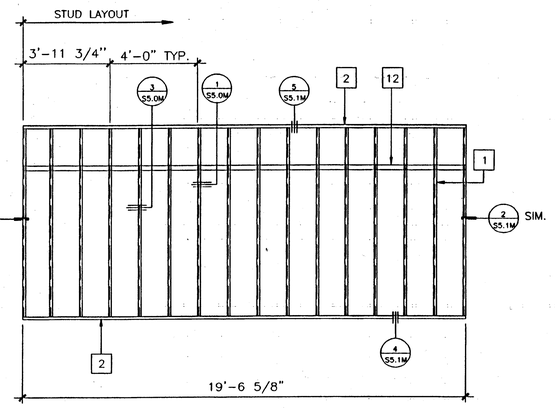

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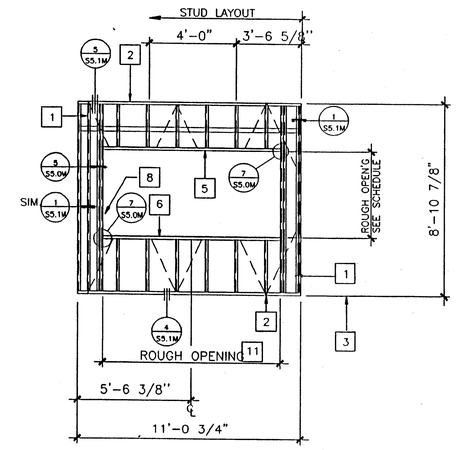
PANEL 'A' 3 OPOSITE HD



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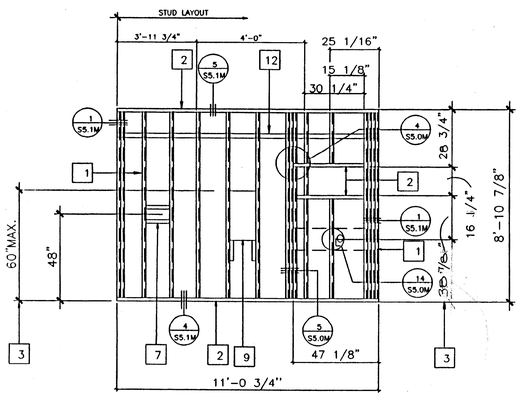

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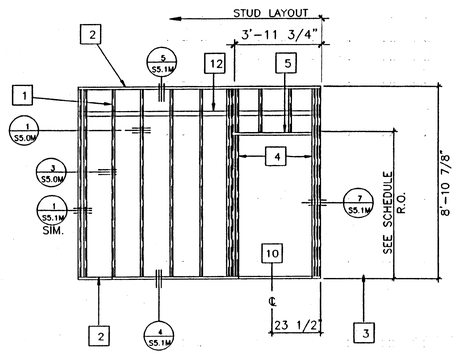

D
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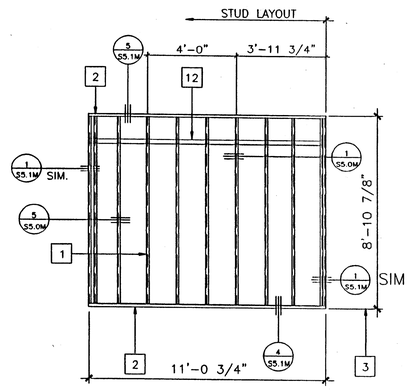
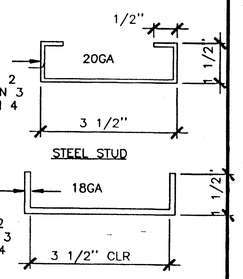


E

SCALE 3/8"=1'

KEY NOTES

1. 1 1/2" X 3 1/2" 20GA METAL STUD @ MAX 16" O.C.
2. 1 1/2" X 3 1/2" X 18GA TRACK
3. FINISH FLOOR
4. FULL HGT. KING STUDS (SEE SCHEDULE FOR QUANTITY SHT S5.0M)
5. HEADER (SEE SCHEDULE SHT. S5.0M)
6. WINDOW SILL PLATE (SEE SCHED.SHT S5.0M)
7. THERMOSTAT BOX
8. FULL HEIGHT STUDS AND JAMB STUDS (SEE WINDOW SCHEDULE FOR TYPE AND QUANTITY OF JAMB STUDS – SHT. S5.0M)
9. FRAME FOR ELECTRICAL PANEL
10. REQUIRED OPENING FOR A 3068 DOOR (SEE DETAIL 7/S5.0M)
11. REQUIRED OPENING FOR A 8040 WINDOW (SEE DETAIL 7/S5.0M)
12. 20GA X 2 1/2" STRAP (OPTIONAL FOR 8' SIDING ONLY)



CONNECTIONS:
TOP TRACK TO ROOF BEAM/HEADER
0.145Ø SHOT PINS OR
#10 STSMS AT 24" O.C.
TRACK TO FLOOR PLYWOOD:
16d BOX @ 10" O.C. OR
#10 X 1 1/2 W.S AT 10" O.C.
4'-0" HEADER:
(1) 5 1/2"X1 1/2"X18GA TRACK AS HEADER
(1) 5 1/2"X1 1/2"X20GA STUDS AS JAMB
8'-0" HEADER:
(1) 5 1/2"X1 1/2"X18GA TRACK AS HEADER
(2) 5 1/2"X1 1/2"X20GA STUDS AS JAMB

NOTES

ALL STEEL STUDS ARE 3 1/2" X 1 1/2" X 20GA CHANNEL @ 16" O.C.
ALL STEEL SECTIONS CONFORM TO ASTM A446 GALVANIZED SHEETS HAVE BASE METAL TTHICKNESS AS INDICATED WITH COATINGS PER ASTM A525.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102216 AC 1 FLS SS 04 DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102990 AC FLS SS 04 DATE AUG 2 4 2001

PC
CBC 1998

REVISED
DEC 9 1999

REVISIONS			
1	12/8/99	ADD BLOCKING	SS
2			
3			
4			
5			

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS 04 DATE OCT 23 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE:
CHECKED BY: SS DATE: 10/22/99
MODTECH Index No.

WALL FRAMING METAL STUDS

S4.0M

PC-04-101419 PROJECT NO.

FILE PATH: 2440-0-54-0M.DWG

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

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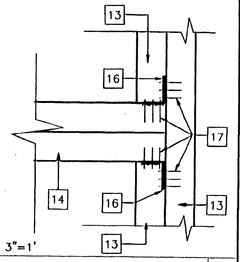
NAILING SHEDULE

CONNECTION	NAILING 1
1. JOIST TO SILL OR GIRDER,TOENAIL	3–8d
2. BRIDGING TO JOIST, TOENAIL END END	2–8d
3. 1" X 6" (25 mm X 152mm) SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL.	2–7d
4. WIDER THAN 1" X 6" (25 mm X 152 mm) SUBFLOOR TO EACH JOIST, FACE NAIL.	3–8d
5. 2" (51MM) SUBFLOOR TO LOIST OR GRINDER, BLIND AND FACE NAIL	2–16d
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL	16d at 16" (406mm) o.c.
SOLE PLATETO JOIST OR BLOCKING, AT BRACED WALL PENELS	3–16d per 16" (406mm)
7. TOP PLATE TO STUD, END NAIL	2–16d
8. STUD TO SOLE PLATE	4–8d, toenail or 2–16d, end nail
9. DOUBLE STUDS, FACE NAIL	16d at 24" (610mm) o.c.
10. DUOBLE TOP PLATES, TYPICAL FACE NAIL	16d at 16" (406mm) o.c.
DOUBLE TOP PLATES, LAP SPLICE.	8–16d
11. BLOCKING BETEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL.	3–8d
12. RIM JOIST TO TOP PLATE, TOENAIL.	8d at 6" (152mm) o.c.
13. TOP PLATES, LAP AND INTERSECTIONS, FACE NAIL.	2–16d
14. CONTINUOUS HEADER. TWO PIECES.	16d at 16" (406mm) o.c. along each edge
15. CEILING JOIST TO PLATE, TOENAIL.	3–8d
16. CONTINUOUS HEADER TO STUD, TOENAIL.	4–8d
17. CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL.	3–16d
18. CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL.	3–16d
19. RAFTER TO PLATE, TOENAIL.	3–8d
20. 1" (25 mm) BRACE TO EACH STUD AND PLATE, FACE NAIL.	2–8d
21. 1" X 8" (25 mm X 203 mm) SHEATHING OR LESS TO AECH BEARING, FACE NAIL.	2–8d
22. WIDER THAN 1" X 8" (25mm X 203mm) SHEATHING TO EACH BEARING, FACE NAIL	3–8d
23. BUILT–UP CORNER STUDS	16d at 24" (610mm) o.c.
24. BUILT–UP GIRDER AND BEAMS.	20d AT 32" (813 mm) O.C. AT TOP AND BOTTOM AND STAGGERED 2–20d AT ENDS AND AT EACH SPLICE. BOTTOM AND STAGGERED 2–20d AT ENDS AND AT EACH SPLICE.
25. 2" (51mm) PLANKS	
26. WOOD STRUCTURAL PANELS AND PARTICLEBOARD:2	
SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING): (1 INCH=25.4mm)	
1/2" AND LESS	$6d^3$
19/32" – 3/4"	$8d^4$ OR $8d^5$
7/8" – 1"	$8d^3$
1 1/8" – 1 1/4"	10^4 OR $8d^5$
COMBINATION SUBFLOOR–UNDERLAYMENT (TO FRAMING): (1 INCH=25.4mm)	
3/4" AND LESS	$6d^5$
7/8" – 1"	$8d^5$
1 1/8" – 1 1/4"	$10d^4$ OR $8d^5$
27. PANEL SIDING (TO FRAMING):	
1/2" (13 mm) OR LESS	$6d^8$
5/8" (16 mm)	$8d^8$
28. FIBERBOARD SHEATHING	
1/2" (13 mm)	NO. 11 GA^8
	$6d^4$
25/32" (20 mm)	NO. 16 GA^9
	NO 11 $GA.^8$
	$8d^4$
	NO.16 $GA.^9$
29. INTER PANELING	
1/4" (6.4 mm)	4d 10
3/8" (9.5 mm)	6d 11

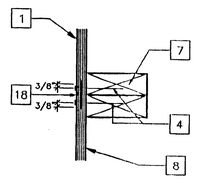
NOTE: All nail shall be box nails unless otherwise noted.

1. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
2. NAILS SPACED AT 6"(152MM) ON CENTER AT EDGES, 12"(305MM) AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152MM) AT ALL SUPPORTS WHERE SPANS ARE 48"(1219MM) OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE DIAPHRAMS AND SHEAR WALLS, REFERTO SECTION 2314.3. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.
3. COMMON OR DEFORMED SHANK
4. COMMON
5. DEFORMED SHANK
6. CORROSION–RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2325.1.
7. FASTENERS SPACED 3 INCHES(76MM) ON CENTER AT EXTERIOR EDGES AND 6 INCHES(152MM) ON CENTER AT INTERMEDIATE SUPPORTS.
8. CORROSION–RESISTANT ROOFING NAILS W/7/16(11MM) HEAD AND 1 1/2 INCH(38MM) LENGHT FOR 1/2 INCH(13MM) SHEATHING AND 1 3/4 INCH(44MM) LENGHT FOR 25/32 INCH(20MM) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2325.1.
9. CORROSION–RESISTANT STAPLES WITH NOMINAL 7/16 INCH(11MM) CROWN AND 1 1/8 INCH(29MM) LENGHT FOR 1/2 INCH(13MM) SHEATHING AND 1 1/2 INCH(38MM) LENGHT FOR 25/32 INCH(20MM) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2325.1.
10. PANEL SUPPORTS AT 16 INCHES(406MM) 120 INCHES(508MM) IF STRENGGHT AXIS IS IN THE LONG DIRECTION OF PANEL, UNLESS OTHERWISE MARKED. CASING OR FINISH NAILS SPACED 6 INCHES(152MM) ON PANEL EDGES. 12 INCHES (152MM) AT INTERMEDIATE SUPPORTS.
11. PANEL SUPPORTS AT 24 INCHES(610MM). CASING OR FINISH NAILS SPACED 6 INCHES(152MM) ON PANEL EDGES. 12 INCHES(305MM) AT INTERMEDIATE SUPPORTS.



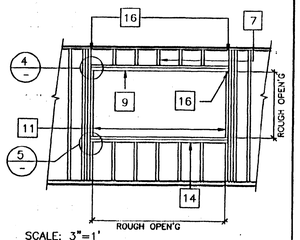
SCALE: 3"=1'

9 WINDOW SILL AT JAMB



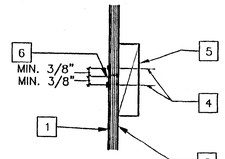
SCALE: 3"=1'

5 DETAIL AT VERT. PLYWOOD EDGES 1



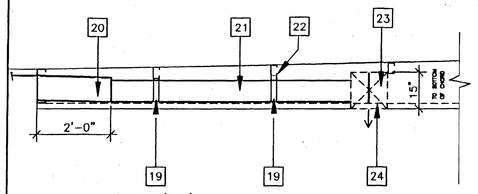
SCALE: 3"=1'

10 TYP. WINDOW FRAMING



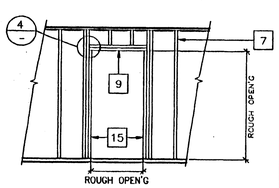
SCALE: 3"=1'

6 DETAIL AT HORIZ. PLYWOOD JOISTS 2



SCALE: 1/2=1'

11 SECTION: HVAC IN ROOF



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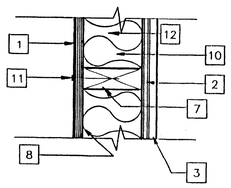
7 TYP. DOOR FRAMING



SCALE: 3"=1'

3 SECTION AT STUD

KEY NOTES

1. EXTERIOR PLYWOOD SIDING – SHEATHING NAIL W/GALV. BOX NAILS –8d AT 6" O.C. EDGES, 8d AT 12" O.C. IN FIELD
2. GYP. BOARD
3. TYP. INTERIOR FINISH–SEE FINISH SCHEDULE
4. E.N.
5. 2X4 BLK'G
6. "Z" FLASHING
7. 2X4 AT 16" O.C./DBL. 2X4 AT VERT. SIDING JOINT
8. WATERPROOF MEMBRANE
9. HEADER (SEE SCHEDULE S5.0)
10. INSULATION (SEE SPECIFICATIONS)
11. 8d ELECTRO GALV. 12" O.C.FN.
12. 2X4 SILL PLATE (BELOW)
13. FULL HEIGHT STUDS AND 1–2X4 TRIMMER (SEE OPENING SCHEDULE FOR JAMB STUDS REQ'D FOR DOORS & WINDOWS ONLY)
14. SILL PLATE (SEE SCHEDULE)
15. 2X4 FULL HEIGHT KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANTITY)
16. A 34 CLIPS AT HEADER AND SILL TO FULL HEIGHT STUDS AND FULL HEIGHT STUDS TO TOP AND BOTTOM PLATES
17. 9GA. 8d 1 1/2" NAILS
18. LAP JOINT
19. 2" WIDE DUCT SUPPORT STRAP @ 48" O.C.
20. PLENUM
21. DUCTWORK
22. ROOF PURLIN
23. TRANSFER BOX
24. ROOF CHANNEL
25. 16D @ 16" O.C.

OPENING SCHEDULE

OPENING	HDR.	SILL	JAMB	ROUGH OPENING HEIGHT	ROUGH OPENING WIDTH
3068	(2) 2X4	(2) 2X4	(2) 2X4 *	81 1/4"	38"
8040 **	(3) 2X4	(2) 2X4	(3) 2X4 *	48 1/8"	96 1/8"

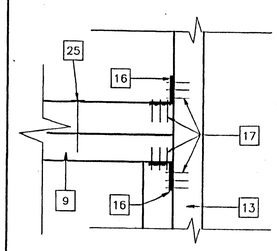
* FULL HEIGHT STUDS

** ALL WOOD WINDOW HEADER SHALL BE D.F./ LARCH #2 GRADE

ALTERNATE: METAL STUD 3 1/2 " X 20 GA. IN LIEU OF 2X4 WD. STUDS

PC

ROUGH OPENING SCHEDULE CBC 1998 12



SCALE: 3"=1'

8 HEADER DETAIL 4

NOTES

1. NAILING:
–NAILING IN ACCORDANCE W/ T.24 C.A.C TABLE 2–25 P
–ALL NAILS EXPOSED TO WEATHER SHALL BE GALV.
–MACHINE APPLIED NAILING SHALL HAVE PRIOR DEMOSTRATION AND APPROVAL BY O.S.A. / DSA FIELD REP. AND THE ARCHITECT.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS / SS DATE 6/7/01

DEPARTMENT VERIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102490 AC DEPT. APR 0 4 2000

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC DEC 25 2000 DATE

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PH (909) 943–4014
FAX (909) 940–0427

PROJECT NUMBER:

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DRAWN BY: DATE: 4/4/01
CHECKED BY: DATE: 10/22/99
MODTECH Index No.

FRAMING DETAILS WOOD STUDS

S5.0

PC– 04–101419 PROJECT NO.

FILE PATH: 2440–0–S5–0.DWG

AGENCY APPROVAL:

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LODI USD

HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAD C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FRAMING DETAILS (WOOD STUDS)

BID SET

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A NO.: 02-121807

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Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
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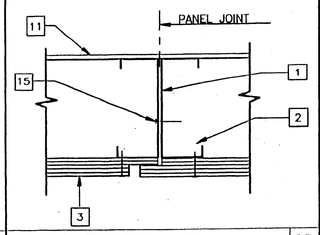
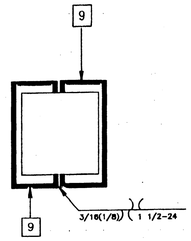
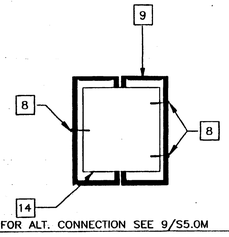


17 WALL PANEL JOINT

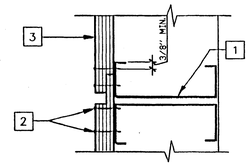


13 ALT. JMB. STUD CONN. DET.



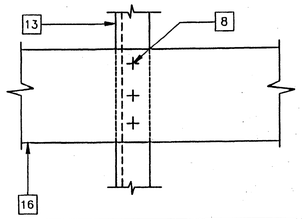
FOR ALT. CONNECTION SEE 9/S5.0M

9 TYPICAL JAMB STUD CONN.



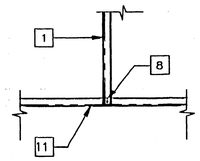
NOTE:
SEE DET. 13 FOR
ALTERNATE CONNECTION

5 DETAIL AT VERT. PLYWD. EDGES 1



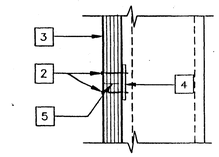
18 TYPICAL STRAP TO STUD

14

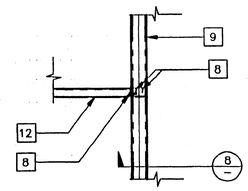


10 TYPICAL STUD TO TRACK CONN.

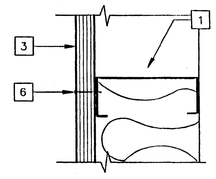
6



DETAIL AT HORIZ. PLYWD. EDGES 2



TYPICAL HEADER TO JAMB /
TYPICAL SILL TO JAMB CONN. 7



SECTION AT STUD 3

19

15

11

KEY NOTES

1. 1 1/2"X3 1/2"X20GA MTL STUD @ 16" O.C.
2. #8 STSMS EN @ MAX. 6" O.C. OR ALT. ERIKO PIN AKN. 0.100 PER ICBO #4144
3. EXTERIOR FINISH (SEE FINISH SCHEDULE)
4. 20GA X 2 1/2" CONT. STRAP
5. 26GA. S.N. "⌐ " FLASHING
6. #8 STSMS FN @ MAX. 12" O.C. OR ALT. ERIKO PIN AKN. 0.100 PER ICBO #4144
7. HEADER (SEE OPENING SCHEDULE) COPE & BEND WED FOR ATTACHMENT TO JAMB STUDS
8. #6 STSMS WAFER HD.
9. JAMB STUD (SEE OPENING SCHEDULE FOR TYPE & QUANTITY) 1 1/2X3 1/2X20GA FULL HEIGHT STUD @ 4' OPENINGS, 2-1 1/2X3 1/2X20GA FULL HEIGHT AT 8' OPENINGS.
10. NOT USED
11. 1 1/2"X3 1/2"X18GA TRACK
12. 1 1/2"X3 1/2"X20GA STUD AS HEADER OR SILL (SEE OPENING SCHEDULE) COPE & BEND WED FOR ATTACHMENT TO JAMB STUDS
13. 1 1/2"X3 1/2"X20GA MTL. STUD
14. 20GA JAMB CLIP '⊔' @ MAX 24" O.C.
15. #6 STSMS @ 24" O.C.
16. 20GA X 4" WIDE STRAP
17. ALT WELDING 1" AT 18" O.C. IS AN ACCEPTABLE ALT. TO BOXING & SCREWING

NOTES

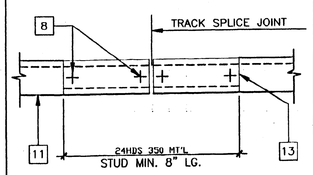
1. METAL STUDS- 1 1/2" X 3 1/2" X 20GA
2. EXTERIOR PLYWOOD ATTACHED TO STUDS W/ CORROSION-RESISTANT SCREWS
3. PROVIDE MOISTURE BARRIER BEHIND SIDING.

OPENING SCHEDULE

OPENING	HDR.	SILL	JAMB	ROUGH OPENING HEIGHT	ROUGH OPENING WIDTH
3068	18T350		2-24HDS350	81 1/4"	38"
8040	18T350	18T350	2-20HDS350	48 1/8"	96 1/8"

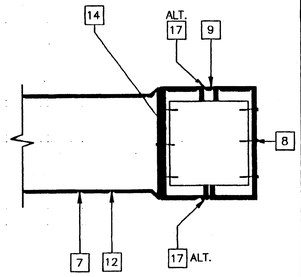
LIGHT GAUGE STEEL PROPERTIES

NUMBER	TYPE	MAJOR AXIS A.	MAJOR AXIS SX	MAJOR AXIS IX
20 HDS 350	STUD	0.188 IN^2	0.251 IN^3	0.455 IN^4
24 HDS 350	STUD	0.115 IN^2	0.151 IN^3	0.279 IN^4
18 T 350	TRACK	0.254 IN^2	0.247 IN^3	0.444 IN^4

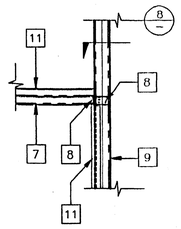


CBC 1998 PC

16 PARTITION TOP TRACK SPLICE



12 SECTION AT JAMB/HDR. CONN



8 HEADER DETAIL 4

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DATE 6/14/01

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04 102490
AC FLS SS
DATE AUG 24 20

LICENSED ARCHITECT FRED VINCENT HALLOCK No. C-24628 RENEWAL DATE 12/31/01 STATE OF CALIFORNIA

LICENSED ARCHITECT FRED VINCENT HALLOCK No. C-24628 RENEWAL DATE STATE OF CALIFORNIA

REVISIONS

1		
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4		
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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal — LICENSED ARCHITECT FRED VINCENT HALLOCK No. C-24628 RENEWAL DATE STATE OF CALIFORNIA

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
101419
AC
DATE

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY:
DATE: 12/21/01
CHECKED BY: SS
DATE: 10/22/99
MODTECH Index No.

WALL FRAMING DETAILS METAL STUDS

S5.0M

PC-04-101419 PROJECT NO.

FILE PATH: 2440-0-S5-0M.DWG

AGENCY APPROVAL:

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
WALL FRAMING DETAILS (METAL STUDS)

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 CLIENT PROJ NO: R221551X01

SHEET:

S5.0M

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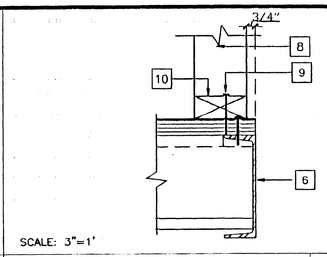

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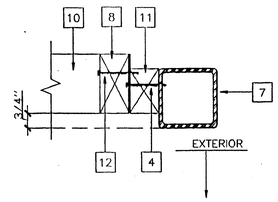

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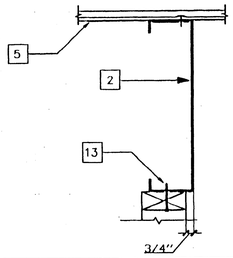
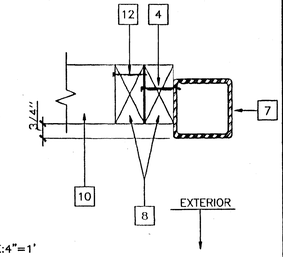
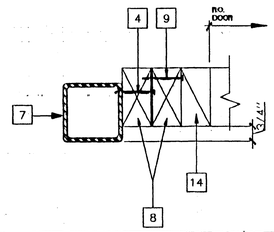
17	13	ENDWALL•ROOF HDR.	9	PLATE • FLOOR	4	COLUMN • SIDEWALL.	1

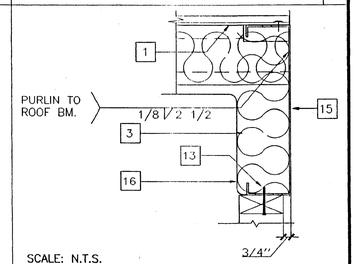




SCALE:4"=1'

18	14	10	END WALL•ROOF HEADER	5	COLUMN • ENDWALL	2	





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19	15	11	COL.•ENDWALL/DOOR	6	ROOFPURLIN • ROOFBEAM	3	
20	16	PC CBC 1998	12	8			

KEY NOTES

1. 22 GA. MTL. ROOF DECK
2. [12GA. X 14" HEADER .
3. INSULATION SEE SPEC'S.
4. #10 S.T.S.M.S @24" O.C. OR 0.145ø SHOT PIN AT 24" O.C.
5. STANDING SEAM ROOF BEAM (SEE STRUCTURAL)
6. FLOOR BEAM (SEE STRUCTURAL)
7. TUBE STEEL COLUMN.
8. 2X4 STUD @ 16" O.C. TYP.
9. 16d BOX NAILS @ 8" O.C.
10. 2X4 SILL PLATE.
11. 2X TRIMMER @ CORNER.
12. 16d @ 24"O.C.
13. #10 S.T.S.M.S @ 16"O.C. OR AEROSMITH AKN 144.0175 DRIVE PIN.
14. 2X4 TRIM
15. ROOF BEAM
16. PROVIDE VAPOR BARRIER OVER INSULATION AT CEILING AND ROOF BEAMS .

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04 102490 AC DATE AUG 2 4 2000

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1		
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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

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MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 2/21/01
CHECKED BY: SS DATE: 10/22/99

MODTECH Index No.

WALL FRAMING DETAILS WOOD STUDS

S5.1

PC-04-101419 PROJECT NO.

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Δ	DESCRIPTION	DATE

KEYNOTES

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FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
WALL FRAMING DETAILS (WOOD STUDS)

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

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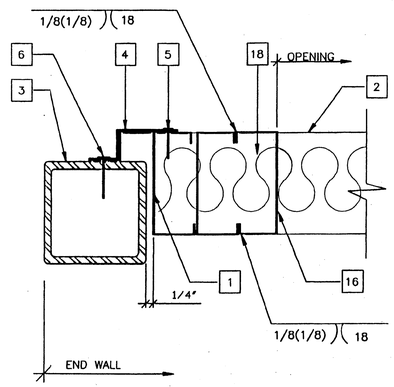
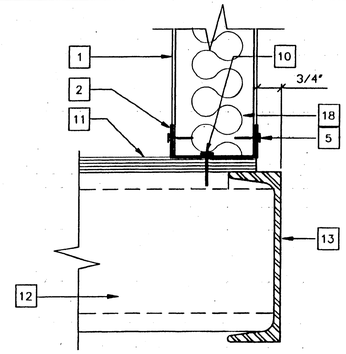
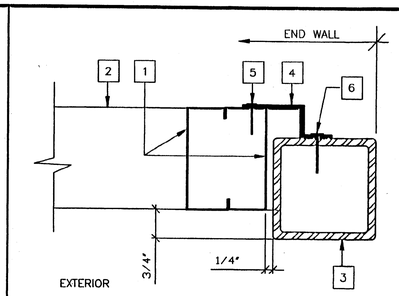


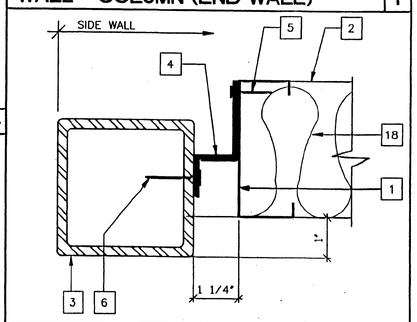
JAMB STUDS @ COLUMN | 7



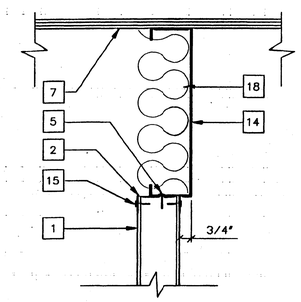
WALL AT FLOOR | 4



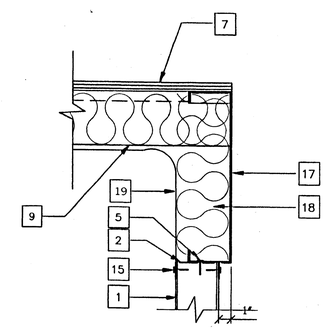
WALL @ COLUMN (END WALL) | 1



WALL @ COLUMN (SIDE WALL) | 2



WALL @ ROOF HEADER | 5



WALL @ ROOF BEAM | 3

KEY NOTES

1. 1 1/2" X 3 1/2" X 20GA MTL. STUD
2. 1 1/2" X 3 1/2" X 18GA TRACK
3. ST'L TUBE COLUMN (SEE S3.0)
4. 20GA. " ⊓ " CON'T
5. #10 STSMS @ 24" O.C. OR 0.145ø SHOT PINS @ 24" O.C.
6. AEROSMITH 0.145ø SHOT PINS @ 24" O.C.
7. STANDING SEAM ROOFING
8. ROOF BEAM (SEE S2.0)
9. ROOF PURLIN (SEE S2.0)
10. 16d BOX @ MAX. 10" O.C. ALT. #10 X 1 1/2" W.S.
11. PLYWOOD FLOOR DECK (SEE S1.0)
12. FLOOR JOIST OR BLK'NG (SEE S1.0)
13. FLOOR BEAM (SEE S1.0)
14. ROOF HEADER (SEE S2.0)
15. #6 STSMS WAFER HD.
16. JAMB STUDS SEE SCHEDULE
17. ROOF BEAM
18. INSULATION– SEE SPECIFICATIONS
19. PROVIDE VAPOR BARRIER OVER INSULATION AT CEILING AND ROOF BEAMS.

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ERIC VINCENT HALLOCK
No. C-24628
12/31/01
RENEWAL DATE
STATE OF CALIFORNIA

LICENSED ARCHITECT
ERIC VINCENT HALLOCK
No. C-24628
12/31/01
RENEWAL DATE
STATE OF CALIFORNIA

PC
CBC 1998

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Electrical Engineer's Seal

Mechanical Engineer's Seal

Mechanical Engineer's Seal

LICENSED ARCHITECT
ERIC VINCENT HALLOCK
No. C-24628
12/31/01
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Architects Seal

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MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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WALL FRAMING DETAILS METAL STUDS

S5.1M

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Δ	DESCRIPTION	DATE

KEYNOTES

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FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
WALL FRAMING DETAILS (METAL STUDS)

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

S5.1M

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American Modular Systems

24 X 40 RELOCATABLE CLASSROOMS

TEST AND INSPECTION LIST

TESTING LABORATORY: _____ DATE: _____

NAME: _____

DISTRICT/OWNER: _____

DIVISION-FILE NO. _____ APPLICATION NO. _____

ARCHITECT: _____

STRUCTURAL ENGINEER: _____

STATE OF CALIFORNIA
DEPT. OF GENERAL SERVICES
DIVISION OF THE
STATE ARCHITECT

STRUCTURAL
TESTS
AND
INSPECTIONS

DPS 103-1 (R 11/85)

The following tests and inspections, as checked, will be required and detailed in

	CON-CRETE	GUNITE	GROUT	MORTAR	
COMPACTED FILL					
Fill material, acceptance tests					Test of aggregates for mix design only
Compaction control, continuous					Suitability tests of aggregates as detailed below
Compaction tests only as ordered					Job analysis
Bearing capacity of compacted fill					Continuous batch plant inspection
REINFORCING STEEL					Inspect. placing
Sample and test bar steel					Sample
Sample and test mesh					Compressive tests
Inspect. placing at job					Pick up samples at job
STRUCTURAL STEEL					Samples delivered to laboratory
Sample and test as detailed below					Deliver sample forms to jobsite
Shop fabrication inspection					Sample and test earnest
Field erection inspection					
Inspection of welds – Shop					
Inspection of welds – Field					
Inspection of shooting or bolting – Shop					
Inspection of shooting or bolting – Field					
Sample and test high strength bolts and washers					
BRICK AND BLOCK					
Sample and test					
Test only					
Inspection of placing					
Core drill samples					
GLUED LAMINATED STRUCTURAL LUMBER					
Fabrication inspection					
Sample and test glued accessories					
Inspect fabrication of steel accessories					

SUITABILITY TESTS	CONCRETE MATERIALS	GUNITE	MORTAR	GROUT
Sieve analysis				
Structural strength				
Los Angeles rattler				
Dry (Sycamore method)				
Durability tests				
Volume change				

MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE

MATERIAL	MAXIMUM SIZE	COMPRESSIVE STRENGTH, PSI, MINIMUM					
CONCRETE	1 1/2"	28 DAY 3000					

List of structural steel members to be tested:

C7X9.8
C12X20.7
6 3/4"X14 GA. JOISTS

TESTING MAY BE WAIVED IF STEEL HAS BEEN PROPERLY IDENTIFIED BY MFR'S MILL ANALYSIS AND TEST REPORTS PER TITLE 24, C.C.R., SECTION 2212.A.1

Other Tests and Inspections, together with special instructions:

GROUNDING TEST

Copies of Reports to:

DSA/ORS
AMERICAN MODULAR SYSTEMS, INC.
SCHOOL DISTRICT
ARCHITECT

By: _____
AUTHORIZED REPRESENTATIVE

INDEX

SHEET No.	DESCRIPTION
TS-1	TITLE & BUILDING DATA NOTES
N-1	GENERAL NOTES
1	FLOOR PLAN & NOTES
2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS & NOTES
S1A	FOUNDATION PLAN WOOD, DETAILS & NOTES
S2	FLOOR FRAMING PLAN & BUILDING SECTIONS
S3	ROOF FRAMING PLAN & DETAILS
S4	FRAMING ELEVATIONS & DETAILS
S5	FRAMING ELEVATIONS & DETAILS
S6R	RAMP PLAN, ELEVATION & DETAILS
M1	MECHANICAL PLAN, DETAILS & NOTES
E1	ELECTRICAL PLAN, DETAILS & NOTES

BUILDING DATA

CLASSROOMS

OCCUPANCY	E-2
TYPE OF CONSTRUCTION	V – NON-RATED
WIND LOAD (80 MPH EXPOSURE C)	21 LBS/SQ FT
FLOOR LIVE LOAD	50 LBS/SQ FT
ROOF LIVE LOAD	20 LBS/SQ FT (REDUCIBLE)
RAMP LIVE LOAD	100 LBS/SQ FT
BUILDING AREA	960 SQ FT

FIRE MARSHAL– CALIFORNIA BUILDING CODE (CBC)
TITLE 24, PART 2, CCR (1994 UBC W/ CAL. AMENDS)
TITLE 24, PART 3, CCR (1993 NEC W/ CAL. AMENDS)
TITLE 24, PART 4, CCR (1994 UMC W/ CAL. AMENDS)
TITLE 24, PART 5, CCR (1994 UPC W/ CAL. AMENDS)
TITLE 24, PART 9, CCR (1994 UFC W/ CAL. AMENDS)
TITLE 24, PART 12, CCR (1994 STD. W/ CAL. AMENDS)
TITLE 19

STRUCTURAL – 1995 CALIFORNIA BUILDING CODE (CBC)
TITLES 24 PARTS 1 AND 2

MODULES	MOMENT-RESISTANT
SYSTEM	(2) 12' X 40' MODULES
FOUNDATION	PRESSURE TREATED WOOD
SEISMIC	ZONE 4

REGISTERED PROFESSIONAL ENGINEER
DAVID G. SCHLUETER
3-31-00
No. 2569
STRUCTURAL
STATE OF CALIFORNIA

FILE NO. 39-D
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. PC-284
AC Vassa FLS
DATE 8/26/96
Fire: Shannon Williams

LODI UNIFIED SCHOOL DISTRICT

JOB NO.	
DATE: DEC. 6,1995	
SHEET NUMBER	TS-1
BINDING ORDER	1

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects
R221551X01

LICENSED ARCHITECT JEFFREY ALAN GRAD C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
TITLE AND BUILDING DATA NOTES

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

TS-1

Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
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GENERAL NOTES AND SPECIFICATIONS

SECTION 1A — GENERAL REQUIREMENTS

1. GENERAL

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.

B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.

C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.

2. SCOPE OF WORK

A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE,MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.

B. ALL REQUIREMENTS OF TITLES 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING,MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
5. ADDENDUMS SHALL BE SIGNED BY THE ARCHITECT & APPROVED BY D.S.A.
6. CHANGE ORDERS SHALL BE SIGNED BY THE OWNER & ARCHITECT & APPROVED BY D.S.A.
7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE DESIGNER/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
13. THE MANUFACTURER OF BUILDING IS TO PLACE A PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME AND VISIBLE FROM THE EXTERIOR OF THE END OF THE MODULE. SEE "GENERAL DESIGN REQUIREMENTS", THIS PAGE.
    FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.
14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQ. BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALY RECOGNIZED TESTING LABORATORY.

FOUNDATION

1. ASSUMED ALLOWABLE SOIL BEARING: 1000 PSF.
2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED FIRM NATURAL SOIL, APPROVED COMPACTED FILL OR ON AN APPROVED PAVED SURFACE.

NOTE:THE FOUNDATION SYSTEM PRESENTED HEREIN COMPLIES WITH INTERPRETATION OF REGULATIONS, IR 23-6, ISSUED BY DIVISION OF THE STATE ARCHITECT FOR TEMPORARY BUILDINGS. THIS FOUNDATION SYSTEM IS NON-CONVENTIONAL AND THE STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY FOR ITS CONSTRUCTION OR LONGEVITY.

3. WORK NOT INCLUDED

A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.

B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM,INTERCOM SYSTEM,TV,TELEPHONE SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.

4. WHEELS AND HITCH
   SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

5. ACCESSIBILITY OF SITE
   THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES SHRUBS,FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

TRIM/ FINISH NAILING

DESCRIPTION	SET	SIZE	LENGTH	FINISH
SIDING		.131	2 1/4"	GALV
CASING, SILL & INT. CORNER TRIM	X	16g	1 1/4"	N
2X FASCIA		.131	3"	GALV
SOFFIT		.131	2 1/4"	GALV
1X EXT. TRIM, WINDOWS, EXT. DOORS, EXT. TRIM		.113	2"	GALV

SECTION 6 WORKMANSHIP

A. GENERAL – ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS,TITLE 24 OF CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.

B. WELDING – ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE OFFICE OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24,PART 2,CCR, SECTION 2212.A.5 WELDING ELECTRODE SHALL BE E70XX.
1. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A-36 & A-570 GR.36.
2. PIPE COLUMNS SHALL COMFORM TO A.S.T.M. A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05%.
3. STEEL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE B OR A.S.T.M. A579 GRADE 50 FOR GAUGE TUBING-TYP. U.N.O.
4. STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.

C. ERECTION – STRUCTURAL STEEL ERECTED TRUE,STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.

D. NAILS,BOLTS, SCREWS AND NUTS ETC.– FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
1. BOLTS FOR STRUCTURAL STEEL JOINTS SHALL CONFORM TO A.S.T.M. A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR MACHINE AND CARRIAGE BOLTS THROUGH STEEL TO BE DRILLED, OR TORCH PILOT HOLE AND REAM MIN. 1/16" TO CORRECT SIZE. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER EXCEPT AT SIMPSON MTT28B.

E. HANDRAILS – FABRICATED, AS DETAILED, WELDS GROUND SMOOTH.

F. SHOP PAINT
1. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
2. NON-EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

G. TESTS
1. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER T-24 PART 2,CCR SECTION 2212.A.1.

SECTION 6A — CARPENTRY

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL CARPENTRY
2. MATERIALS
   LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 16" OF WEST COAST LUMBER INSPECTION BUREAU, OR "GRADING RULES FOR LUMBER,3RD EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION OR W.C.L.I.B.. PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-83 FOR SOFTWOOD PLYWOOD,OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH UBC STANDARD 23-2. EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO.

A. JOISTS, RAFTERS, PLATES, STUDS-DOUGLAS FIR S4S #2 U.N.O. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.
B. HEADERS,POSTS AND TIMBERS-DOUGLAS FIR S4S #1
C. BLOCKING – DOUG FIR #3,OR HEM FIR #3,OR STD. & BET.
D. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE,MASONRY OR EARTH, DOUG FIR #2 PRESSURE TREATED IN ACCORDANCE WITH CBC 1811.7. EACH PIECE SHALL BEAR AWPB STAMP. LP-22 GROUND CONTACT,D.F.#2 ABOVE GROUND.
E. PLYWOOD ROOF DECKING – APA C-D GRADE,GROUP 1 OR 2, EXPOSURE 1 WITH EXTERIOR GLUE.
F. PLYWOOD FLOOR DECKING – APA STURD-I-FLOOR 2-4-1 OR UNI-FLOOR BY PITTSBURGH TESTING LAB, 1-1/8" NOM. TONGUE AND GROOVE FLOOR SHEATHING, WITH EXTERIOR GLUE.
G. EXTERIOR SIDING/SHEATHING – APA TYPE 303,EXTERIOR.
H. MOISTURE BARRIER – KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, UBC STANDARD 17-1 FOR KRAFT, 32-1 FOR FELT.
J. STUDS – DOUG FIR #2.
K. FASTENERS – ALL NAILS SHALL BE CORROSION RESISTANT PER UBC STANDARD 25-17. ELECTROGALVANIZED COMMON NAILS U.N.O.
L. BUILDING TRIM – 2X RESAWN SELECT D.F.,H.F.,OR CEDAR
M. DOOR/WINDOW TRIM – 1X4 REWAWN D.F.,H.F.,OR CEDAR.
N. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.
O. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 708.
P. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED.
Q. FOUNDATION LUMBER: ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".

3. WORKMANSHIP

A. FRAMING – SECURELY NAILED,BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBELED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
B. NAILING – IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS,TABLE 23-I-Q
C. EXTERIOR WALLS – FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS,SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
D. MACHINE APPLIED NAILING:
   USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.
   MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS 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.
E. MOISTURE BARRIER – APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.
F. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7B — SHEET METAL

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.
2. MATERIALS
   A. SHEET METAL – STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A526. MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   B. SOLDER – OF STAND,GRADE "A" OF EQUAL PARTSARD BRAND LEAD AND TIN ASTM B32.
   C. FLUX – ZINC SATURATED MURIATIC ACID.
   D. GUTTERS: 26 GA. G-90 GALV. STEEL.
      DOWNSPOUTS: 2"X3" CONVOLUTED 30 GA. G-90 GALV. STEEL.
      GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL.
      GUTTER CLIPS: 18 GA. G-90 GALV. STEEL
3. WORKMANSHIP
   SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7C — METAL ROOFING

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. TEST RESULTS SHOWING THE ROOFING SYSTEM WILL WITHSTAND THE UPLIFT OF A 80 MPH WIND SHALL BE SUBMITTED WITH THE PLANS AND SPECIFICATIONS.
2. MATERIALS
   A. ROOFING – 1-1/8 INCH STANDING SEAM 26-GAUGE G-90 GALV. INTERLOCKING (UNPENETRATED) SHEET STL PANELS (G90).
   B. BASE SHEET – 30 POUND ASPHALT COATED.
   C. EDGE FLASHING – 26 GAUGE GALVANIZED STEEL.
3. WORKMANSHIP
   BASE SHEET: APPLY TO ROOF DECK SHINGLE FASHION WITH 2-INCH OVERLAP SEAMS. STAPLE TO DECK AT 12" ON CENTER AROUND PERIMETER AND AT 12" ON CENTER THROUGH OVERLAP SEAMS. INSTALL METAL ROOF ACCORDING TO MANUFACTURERS REQUIREMENTS. SEE SHEET 2 FOR MANUFACTURERS NOTES.

SECTION 7J — SEALANT

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIAL AND SERVICES TO SEAL BUILDINGS.
2. MATERIALS
   VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.
3. WORKMANSHIP
   SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION 8B — HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.
2. MATERIALS
   A. DOORS – TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY,18 GA. 1 3/4" THICK PER CS242 MIN,REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.
   B. FRAMES – 16 GA COLD ROLLED,2" FACES, CS242 MIN.3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX,PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.
3. WORKMANSHIP
   ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARDP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP,WAVE,BUCKLE OR OTHER DEFECTS AFTER FABRICATION,DOORS AND FRAMES CLEANED THOUROUGHLY,ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 8D — FINISH HARDWARE

1. SCOPE OF WORK
   CONTRACTOR SHALL SUPPLY AND INSTALL FINISH HARDWARE AS SPECIFIED AND AS REQUIRED.
2. SCHEDULE FOR EXTERIOR DOORS
   SEE NOTE ON FLOOR PLAN.
3. SPECIAL REQUIREMENTS
   A. EXIT DOORS SHALL BE OPENABLE FROM THE INTERIOR WITHOUT KEY OR SPECIAL KNOWLEDGE OR EFFORT.
   B. CLOSER SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 8.5 LBS. PRESSURE.

SECTION 9E — PAINTING

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.
2. MATERIALS

A. FOR EXTERIOR WOOD:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	42-9M	1240	Y24W20	289-N
FINISH	QD-60-XX	1240-XXX	B54WZ102	GE2-NXX

B. FOR INTERIOR TRIM

REF. BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
FINISH	W450-XX	1650-XXX	A26W11	40XX

C. FOR METAL

REF. BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	43-4	1710	B50NZ6	15N
FINISH	10-XX	1700-XXX	B54WZ102	GE2-NXX

3. WORKMANSHIP
   ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.

A. EXTERIOR – WOOD SIDING, TRIM AND SKIRTING FLAT OR SEMI-GLOSS LATEX – APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.
B. INTERIOR TRIM – TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.
C. INTERIOR HARDWOOD CABINETS – TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.
D. METAL – ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.
E. RAMP – ONE COAT OF FERROX NON-SKID SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE.
   ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST FOR MAINTENANCE PAINTS 8010-91G-98A DATED JULY 1989. OR EQUAL.
F. SUBMIT ONE SET COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 13F — SITE ASSEMBLY

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE.
   THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT . UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ASSEMBLY OF ELEMENTS
   A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT,(APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.
   B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.
   C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

NOTE:

WALL FINISH MATERIAL
- FLAME SPREAD MAX = 200
- SMOKE DENSITY MAX = 450

BUILDING INSULATION
- FLAME SPREAD MAX = 25
- SMOKE DENSITY MAX = 450

PIPE INSULATION
- FLAME SPREAD MAX = 25
- SMOKE DENSITY MAX = 450

DUCT INSULATION
- FLAME SPREAD MAX = 25
- SMOKE DENSITY MAX = 50

SECTION 15A — AIR CONDITIONING

1. SCOPE OF WORK (SEE SHEET M-1 FOR HVAC SPEC. AND NOTES)
   CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.
2. EQUIPMENT
   SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.
3. WORKMANSHIP
   UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 16A — ELECTRICAL

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS,LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.
2. MATERIALS
   ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRIC CODE AND NATIONAL FIRE PROTECTION ASSOCIATION
   A. ELECTRIC METALLIC TUBING – COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX- GALV. STEEL W/ FACTORY APPLIED P.V.C. JACKET.
   B. PANELBOARDS – FLUSH MOUNTED.
   C. CONDUCTORS – COPPER,INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES.MINIMUM SIZE- #14.
   D. RECEPTACLES – AS NOTED. +15" A.F.F. MIN.
   E. CLOCK RECEPTACLE – AS NOTED.
   F. SWITCHES – AS NOTED. +48" A.F.F. MAX.
   G. LIGHTING FIXTURES – AS NOTED ON THE DRAWINGS.
3. WORKMANSHIP
   MATERIALS AND EQUIPMENT INSTALLED IN A SECURE,NEAT WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANELBOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BLDG TO SITE TERMINATION BY SITE CONTRACTOR(N.I.C.).(FLEXIBLE CONDUIT S-BEND SEALTITE)

INSPECTION

INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS.

1. IN-PLANT INSPECTION.
2. ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE WHEN OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY OR FROM THE STORAGE FACILITY TO THE SITE THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM SSS-6). A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

COORDINATION OF WORK

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT,IF NECESSARY.
THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF AY MODULE.
ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED,UNLESS OTHERWISE SPECIFIED,SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE ARCHITECT THAT SUCH IS THE CASE.

CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS:

TWO (2) APPROXIMATELY 12' X 40' MODULES DESIGNED SO THAT TWO MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH AN IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAG 3"X1 -1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

1. MANUFACTURER'S BUILDING NUMBER.
2. DESIGN WIND LOAD
3. DESIGN ROOF LIVE LOAD
4. D.S.A. APPLICATION NUMBER.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

EACH 12' X 40' MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

DIMENSIONS

THE BUILDINGS SHALL OCCUPY AN AREA OF 960 SQUARE FEET WITH A TOLERANCE OF MINUS 5 SQUARE FEET. THE BUILDINGS SHALL BE 24' X 40'. ALL BUILDINGS SHALL MEET THE SQUARE FOOTAGE REQUIREMENT. LINER DIMENSIONS SHALL BE VERTICAL TRIM FINISH LINE TO VERTICAL TRIM FINISH LINE.

FASCIA AND REQUIRED OVERHANGS ARE NOT INCLUDED IN THE CALCULATION OF THE SQUARE FOOTAGE THE BUILDING OCCUPIES. THE ENTRANCE WALL SHALL HAVE A 5' MINIMUM ROOF OVERHANG. THE REAR WALL SHALL HAVE A MINIMUM 2' OVERHANG. FULL LENGTH GUTTERS AND DOWNSPOUTS SHALL BE FURNISHED ON THE SIDES OF EACH OVERHANG AND EACH ROOF EDGE WHERE DRAINAGE OCCURS. THE INTERIOR HEIGHT,FLOOR TO CEILING SHALL BE 8'-6" U.O.N.
THE MODULE SHALL BE CLEAR SPAN TYPE EXCEPT AS PROVIDED FOR IN THE BID SPECIFICATIONS NOTHING SHALL PROTRUDE MORE THAN 1" BELOW THE CEILING LEVEL.

ITEMS NOTED AS N.I.C. (NOT IN CONTRACT) OR "BY OTHERS" IS THE RESPONSIBILITY OF THE SCHOOL DISTRICT DEPENDING ON THE AGGREEMENT WITH DISTRICT.

IN THE EVENT OF CONFLICT BETWEEN THESE SPECIFICATIONS AND THE DISTRICT BID SPECIFICATIONS, THE DISTRICT SPECIFICATIONS SHALL PREVAIL.

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER No. 2569 3-31-03 STRUCTURAL STATE OF CALIFORNIA

FILE NO.
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL. PC-264
AC — FLS — SS —
DATE 8/26/96

24 X 40 RELOCATABLE CLASSROOMS

American Modular Systems

CUSTOMER:

GENERAL NOTES

DATE: 12-7-95
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
△			△		
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PROJECT No.

SHEET No. N-1

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects

R221551X01

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

△	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
GENERAL NOTES

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 — CLIENT PROJ NO: R221551X01

SHEET:

N-1

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AGENCY APPROVAL:

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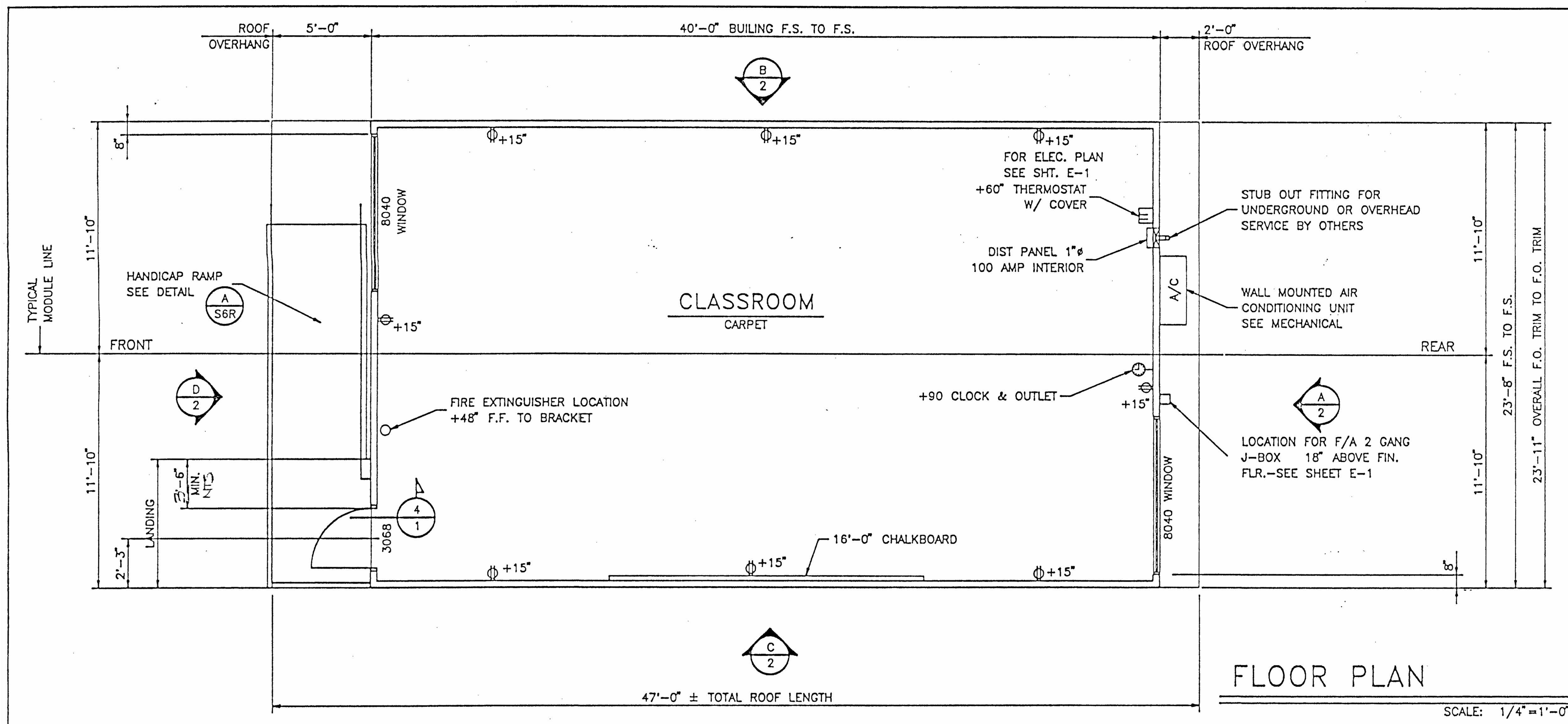
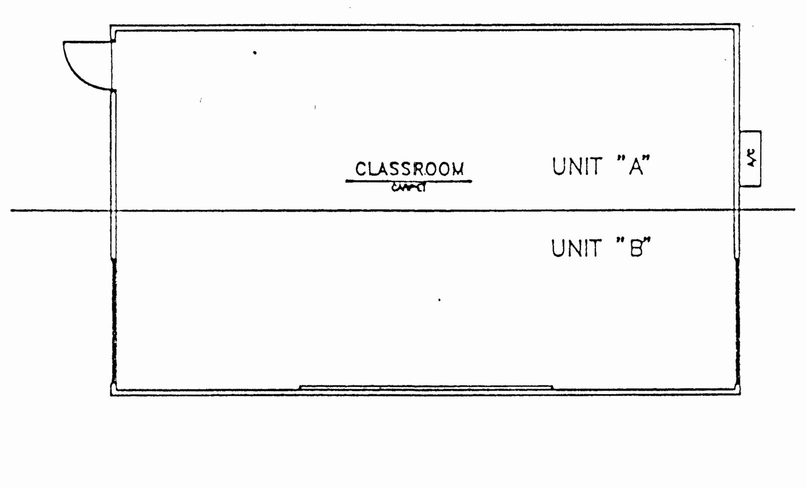


FLOOR PLAN

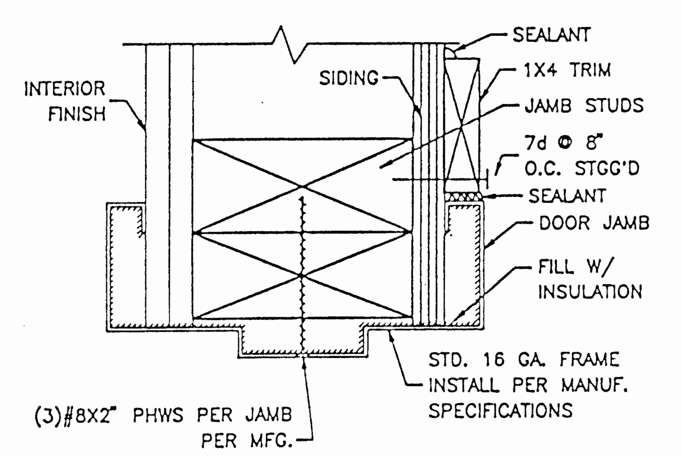
SCALE: 1/4"=1'-0"



OPTIONAL FLOOR PLAN

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

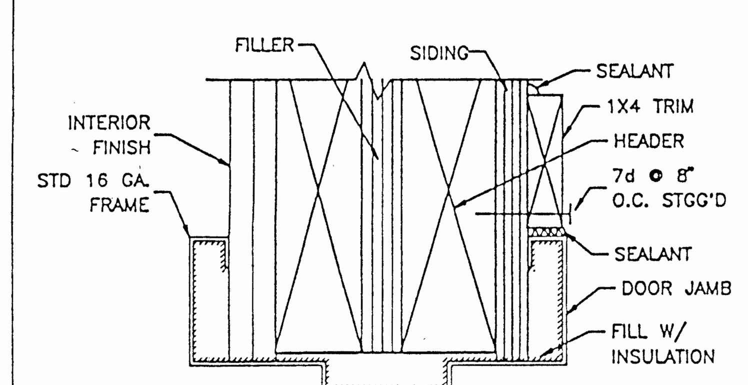
TYPICAL EXTERIOR WINDOW INSTALLATION NOTE:
SEE MANUF. SPECS FOR INSTALLATION
USE .131" X 1 1/2" 16" O.C. VERTICALS
USE .131" X 1 1/2" 24" O.C. HORIZONTALS



TYPICAL EXTERIOR DOOR JAMB (5/1)

NO SCALE

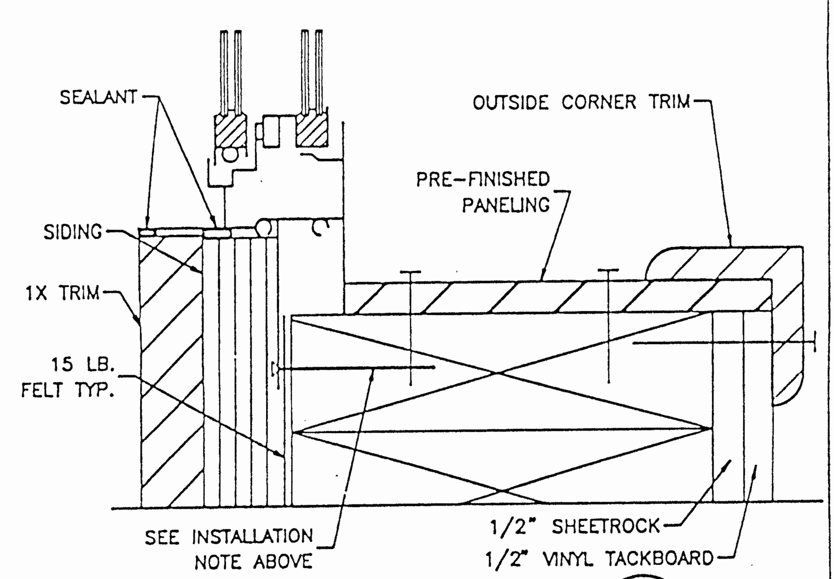
NOTE: SEE MANUFACTURES SPECS FOR INSTALLATION.



TYPICAL EXTERIOR DOOR HEAD (6/1)

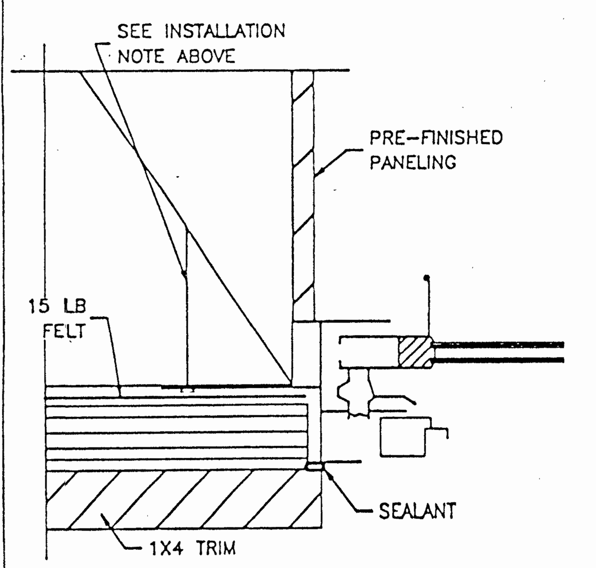
NO SCALE

NOTE: SEE MANUFACTURES SPECS FOR INSTALLATION.



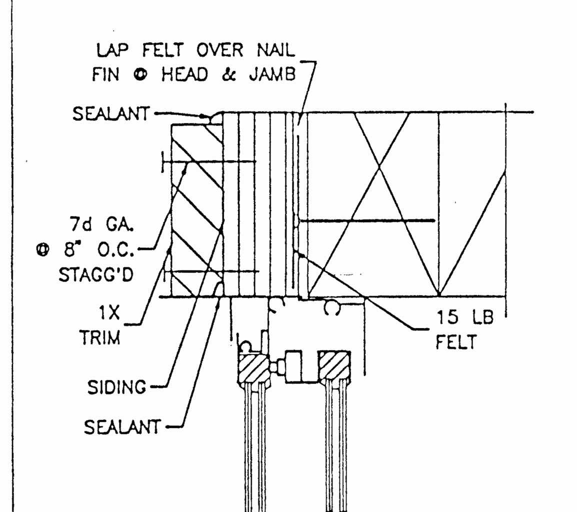
TYPICAL WINDOW SILL DETAIL (1/1)

NO SCALE



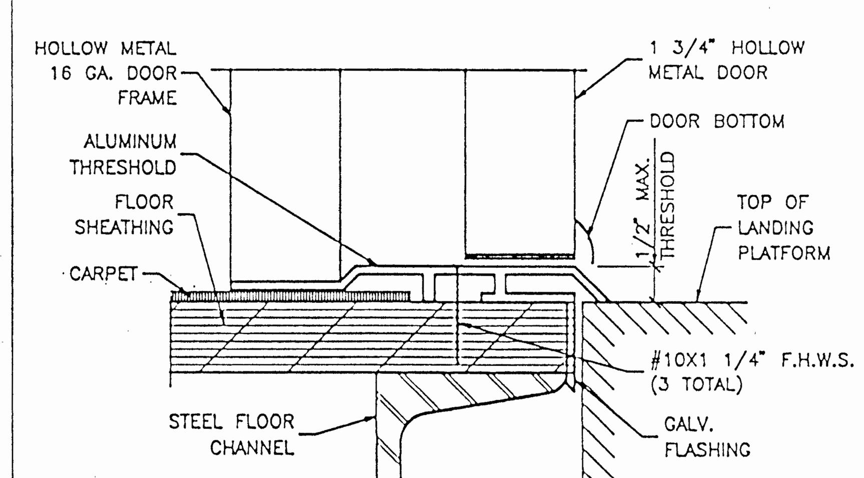
TYPICAL WINDOW JAMB (2/1)

NO SCALE



TYPICAL WINDOW HEAD (3/1)

NO SCALE



TYPICAL EXTERIOR DOOR SILL (4/1)

NO SCALE

NOTES
INTERIOR
1. Floor: Carpets – Units shall be carpeted as indicated on floor plan with direct glue down type per State of California Specification 7220-XXX-01, Group 1, Type A, Class 26. Color will be selected by Architect after award of bid. The carpet density shall be 4800 minimum. Pile yarn shall be branded nylon. No cross seams shall be allowed.

2. Base: Resilient Cove Base – Best quality, moulded rubber, 1/8" thick, 4" high, moulded top set
Cove: Provide preformed base for square external corners and preformed end stops where base does not abut. Solid color as manufactured by "Johnsonite Co.", Flexco, or equal. Apply cove to complete perimeter of classroom.

3. Interior walls shall be vinyl covered tackboard applied in one continuous length from floor to ceiling. The tackboard shall be industrial insulation board manufactured specifically as a substitute for vinyl covered wall panels. The board shall be asphalt free, shall have an ironed-on coating and shall have a minimum density of 18 lbs. per ft. The vinyl coating shall be made of virgin vinyl calendered base color, weighing a minimum of 8 oz. per square yard. The coating backing shall be sheeting or non-woven fabric. The vinyl coating shall be mechanically laminated, with the long edges wrapped, to the tackboard. Tackboard shall be applied over 1/2" sheetrock or 3/8" plywood sheathing. The vinyl wall covered panel shall have a Class III flame spread rating. The panel shall be approved for classroom use by The California State Fire Marshal. Reference brand: Vinyl covered tackboard as manufactured by Chatfield-Clarke or comparable. Care shall be taken in mounting the tackboard so that the texture of all panels will have the same orientation and color match.

4. Ceiling: Suspend T-Bar System, see sheet 3 for details etc. Materials and installation per CCR 2501.A.5 and IR #47-4 inclusive as applicable to classrooms.

DOORS & WINDOWS
Exterior Doors: Metal Doors – 3'0X6'8 hollow metal door construction of 1 sheet of 18 ga. steel assembled per CS242 min and reinforced with 20 ga. min. continuous vertical steel stiffeners spaced @ 6" O.C. Fill spaces between stiffeners with mineral wool or other insulation. (Reinforce both faces for closure) provide flush top on doors. Hardware reinforcement shall be 10 ga. min for hinges, door frame shall be 16 ga. pressed steel frame ASTM A366 & C5242. Hardware reinforcement shall be 10 ga. plate. Frames shall be designed with integral stop and trim. Provide (3) anchors per jamb plus adjustable floor anchor.

Exterior Windows: Provide anodized aluminum frame 5/8" minimum dual pane window units, as shown on floor plans. The 5/8" dimension is the minimum thickness for the dual glazed window panel consisting of two lights of glass and the air space. Glazing material shall be:

Exterior Lite – 3/16" minimum tempered glass or laminated as – 1 glass of solar gray glare reducing type with a light transmission factor of 45% maximum.

Interior Lite – 1/8" minimum clear tempered.

Minimum air space shalle be 1/4".

Space – Bent or sealed corner aluminum with desiccant fill

Sealer – Butyl primary seal and polysulfide of silicone secondary seal.

Certification – All glazing to be certified in accordance with ASTM E-773, E-774.

Header height shall be the same as the door. All operable sash shall have aluminum screens. Windows shall not be mounted to the exterior plywood surface. All windows shall meet the AAMA GS101-88 voluntary spec. For aluminum prime windows and sliding glass (ANS1), commercial grade.

HARDWARE
1. Exterior Door
A) Hinges: Hager 4-1/2X4-1/2 butts, BB1279 US260,1-1/2 pair each door with set screw in barrel and ball bearing design, or approved equal.
B) Lockset: Classroom lever handle lockset, cylindrical type, Schlage D70PD (Rhodes) or Corbin or Yale or equivalent. US26D finish.

C) Closer: Norton 8500DA or 8500BF series, LCN 1460 Del series or equal.
D) Weatherstripping: All exterior doors shall be weatherstripped with Pemko 299D, Ultra WS007, at door jambs and head or equal.
E) Threshold: Threshold shall be Pemko 271 AV 5" aluminum with Pemko 216 AV Ultra TH042 door bottom.
F) Doorstop: Quality #44, or equal.

FIRE EXTINGUISHER
1. Each portable classroom shall be equipped with pressure type fire extinguishers with 2A10BC UL rating. To be mounted on the interior wall of the building near the doorway(s) at a height of 4 feet to mounting bracket. Fire extinguishers shall be totally charged and have a dial indicating the state of charge.

CHALKBOARD SPECIFICATIONS
Chalkboards shall have green facing sheet suitable to accept white or yellow chalk and felt erasers.

Markerboards shall be 5 mil thick melamine facing sheet suitable to accept dry erase felt markers. The facing sheet shall be laminated, using hot melt adhesive, to a medium density particleboard substrate with a minimum density of 45#/c. ft. The panel shall have a foil backing. The panels shall have extruded aluminum molding and chalkrail with a minimum of 2-15/16" projection from the face of the panel. A full length map rail shall be provided with cork insert and end stops. The map rail and chalkrail are to incorporate a channel to wrap around the panel. Three (3) map hooks, with clips, perpanel shall be provided. One flag holder, 1/2" size, shall be provided for each classroom. Each classroom shall be 2 ea. 4x8 panels installed side by side to make a 4x16 panel, centered on one of the long walls. Referenced brand: Chatfield-Clarke Co. series 500. Attach directly to studs and blocking W/#8x3" oval head wood screw @ 32" o.c. horizontally and @ 24" o.c. vertically.

REGISTERED PROFESSIONAL ENGINEER – DAVID O. SCHLUETER – 3 31 00 – No. 2569 – STRUCTURAL – STATE OF CALIFORNIA

FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL PC-264
AC ___ FLS ___ SS ___
DATE 8/26/96

24 X 40 RELOCATABLE CLASSROOMS

American Modular Systems

CUSTOMER:

FLOOR PLAN & NOTES

DATE:	12-7-95
SCALE:	NONE
DRAWN BY:	R.S.
CHECKED BY:	
CHECKED BY:	
SERIAL NO.	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
△			△		
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PROJECT No.

SHEET No. 1

HMC Architects

R221551X01

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT – JEFFREY ALAN GRAU – C-14648 – 5/31/25 RENEWAL DATE – STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FLOOR PLAN AND NOTES

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23

CLIENT PROJ NO: R221551X01

SHEET:

1

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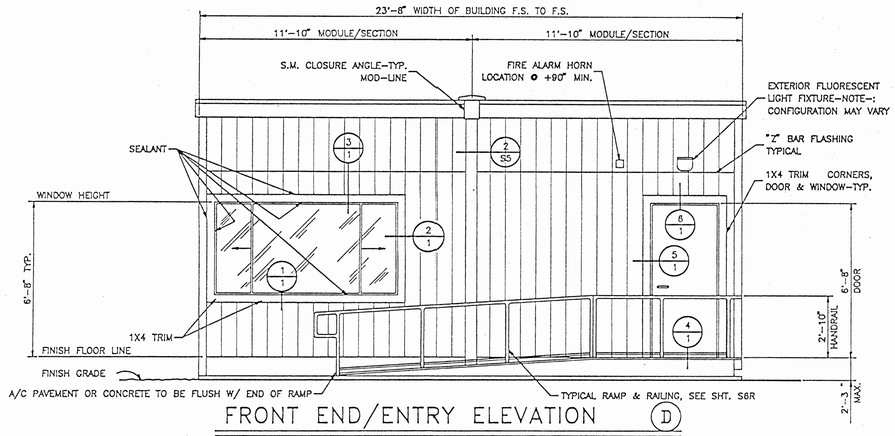


FRONT END/ENTRY ELEVATION (D)

SCALE:3/8"=1'-0"

PANEL INSTALLATION

START AT THE STARTER FLASHING END OF THE BUILDING. APPLY MUKUDH SEALANT ALONG THE ENTIRE STANDING SEAM LIP. AT THE EAVE END, APPLY SEALANT APPROXIMATELY 3" ALONG THE SIDE OF THE STANDING SEAM AND ALO NG HE END FLASHING LIP. THE SEALANT SHOULD BE APPLIED AS THE ROOF PAN ELS ARE POSITIONED TO AVOID CURING.

HOOK THE PANEL OVER THE STARTER FLASHING AND LAY IT INTO POSITION, LEAVING 2" OVERHANG AT THE EAVE FOR WRAPPING AROUND THE END FLASHING LIP. INSTALL Z-CLIPS 1'-6" O.C. KEEPING THEM TIGHT AGAINST THE TAPERED SEAM, SECURE WITH THREE 1/2" CROWN X 1 1/4" LENGTH 106 GA. STAPLES PER CLIP. THE CLIPS NEED ONLY BE HAND CRIMPED AROUND SEAM AT THIS POINT. FORM THE PANEL OVER THE STARTER FLASHING LIP AND AT THE END FLASHING. MECHANICALLY CRIMP THE PANEL OVER THE FLASHING LIP AND ALONG THE ENTIRE STANDING SEAM.

NOTE: KEEP ALL FASTENERS ON THE CLIPS AND FLASHINGS COMPLETELY. DO NOT USE EXCESSIVE PRESSURE OR OVERPOWER THE STAPLES AS TO TEAR OR CAUSE DAMAGE TO THE CLIP.

CONTINUE THE PANELING PROCEDURE, APPLYING SEALANT TO THE FLASHING LIP. APPLY SEALANT AT THE STANDING SEAMS APPROXIMATELY 3" ALONG THE SIDE TOP LIP OF EACH FOLLOWING PANEL. HOOK THE NEXT PANEL OVER THE INNER LOCK AND LAY THE PANEL INTO POSITION. KEEP THE STANDING SEAMS BUTTED TIGHTLY TOGETHER TO MAINTAIN SQUARE, JUSTIFIED PANELS AND MINIMIZE ANY POSSIBILITY OF GAPS OCCURRING AT THE EAVES OR STRETCHING OF THE ROOF COVER.

MECHANICALLY CRIMP EACH STANDING SEAM ENTIRELY. MECHANICALLY CRIMP PANELS OVER ALL FLASHING CLIPS. CUT THE FINAL PANEL TO THE DESIRED WIDTH, ALLOWING 2" FOR FLASHING OVERLAP AND WRAP-AROUND. USE SEALANT ALONG THE FLASHING LIP AND LAY THE PANEL INTO PLACE. FORM THE PANEL OVER THE FLASHING LIP AND MECHANICALLY CRIMP.

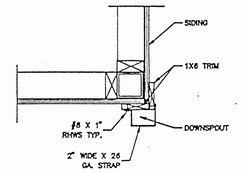
FLASHING (ROOF)

INSTALL THE STARTER FLASHING ON THE END OF THE BUILDING THAT IS OPPOSITE FROM THE DIRECTION OF PREVAILING WIND (OR LEADING EDGE). SECURE USING 1/2" CROWN X 1 1/2" LENGTH 16GA. STAPLES 4" O.A.C. TO THE ROOF DECK. THE FLASHING SHOULD EXTEND APPROXIMATELY 3" PAST THE OUTSIDE WALL. WRAP THE 3" AROUND THE CORNER, FORMING IT TIGHTLY AGAINST THE FASCIA. OVERLAP THE FLASHING SECTIONS 2", SOME MODIFICATION OF THE FLASHING LIP WILL BE REQUIRED TO ALLOW THE OVERLAP.

INSTALL THE END FLASHING ALONG THE OPPOSITE END OF THE BUILDING (OR LEADING EDGE) WRAPPING THE CORNERS AROUND THE EDGE APPROXIMATELY 4". SECURE THE "LEADING EDGE" FLASHING ONLY ADDITIONAL #8 X 1 1/2" SMS 2'O.C. THROUGH THE DESCENDER INTO SIDING. INSTALL THE END FLASHING ALONG THE SIDES OF THE BUILDING. KEEP THE EDGES OF THE FLASHING FLUSH WITH THE EDGES OF THE BUILDING.

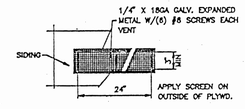
80 MPH WIND RATING

REQUIRES A MINIMUM OF 26 GA. STEEL ROOF PANELS WITH 26 GAGE TIE-DOWN CLIPS AT 18" O.C.,SECURED TO THE ROOF DECK WITH THREE 1/2" CROWN BY 1 1/2" LENGTH 18 GA. STAPLES PER CLIP.



DOWNSPOUT DETAIL (3/2)

1 1/2"=1'-0"

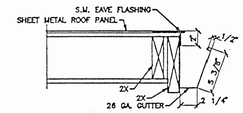


VENT DETAIL

REQUIRED VENT AREA = 6.4 SQ. FTG. => 13 VENTS MIN.

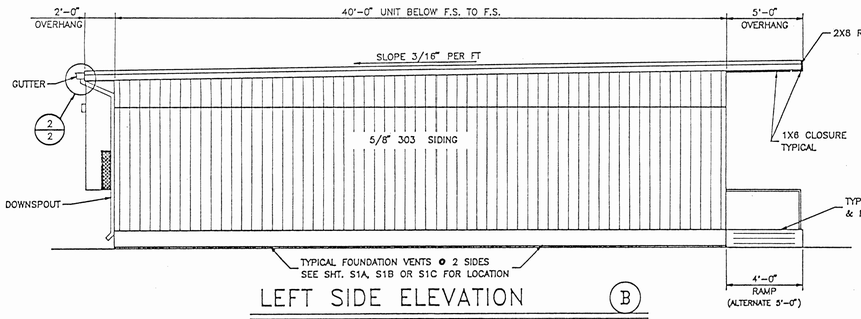
NO SCALE

SEE SHT. S1A, S1B OR S1C FOR NUMBER OF VENTS AND LOCATIONS. THIS DETAIL IS FOR WOOD FOUNDATIONS ONLY.



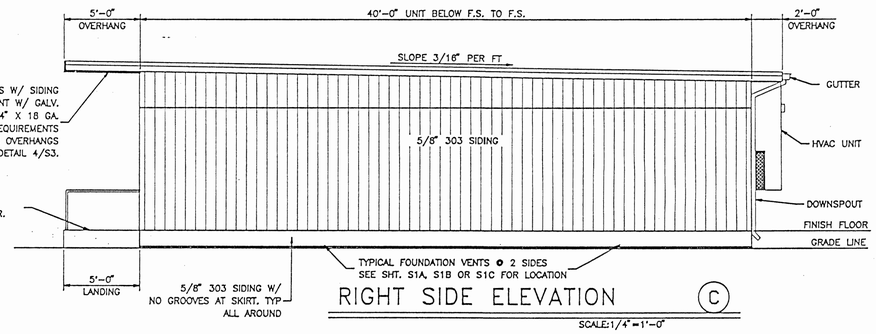
GUTTER: 26 GA., G-90 GALV. STEEL, FASTENED W/ 18 GA. CLIPS 48" O.C. OMAX.
DOWNSPOUT: 2"X3" G-90 30 GA. CONVOLUTED GALV. STEEL.
DOWNSPOUT STRAPS: 26 GA. STEEL X 2" WIDE ATTACHED TO BLDG. MAX. 6'-00" O.C.

GUTTER AT OVERHANG DETAIL (2/2)



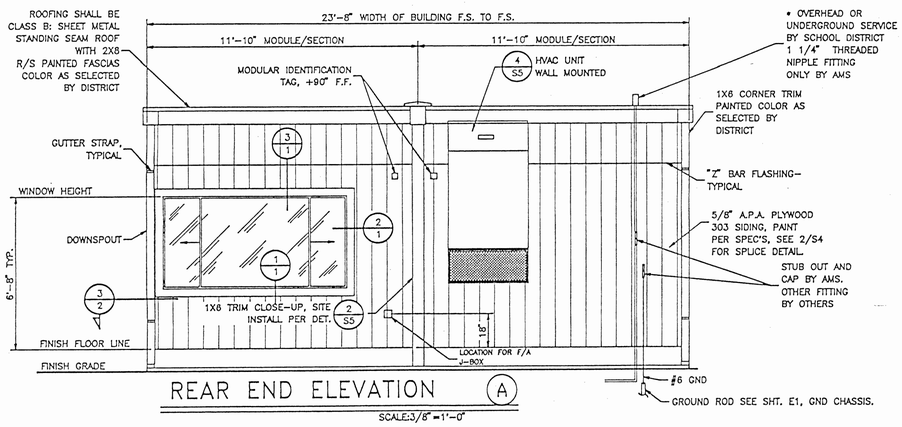
LEFT SIDE ELEVATION (B)

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



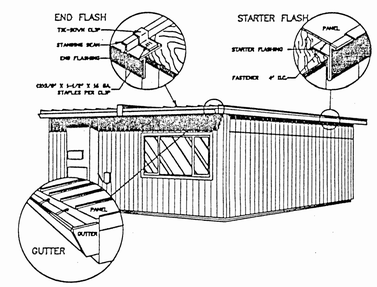
RIGHT SIDE ELEVATION (C)

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



REAR END ELEVATION (A)

SCALE:3/8"=1'-0"



SPECIFICATIONS

MATERIAL
24, GAGE

FINISH
GRD GALVANIZED, OR SPECIAL.

FASTENERS
#8X1", #8X1-1/2" AND #8X2" ZINC PLATED SHEET METAL SCREWS, 3/8" CROWN X 1-1/2" LENGTH 18 GAGE STAPLES OR #4 1-1/2" RING SHANK NAILS.

WEATHERPROOFING
VENTS, CLOSURE, RIDGE CAP, COMPLEX CAP, PAN SPLICE, PAN OVERLAP AND FLASHING ARE SEALED WITH #118 VULKEM POLYURETHANE SEALANT MEETING FEDERAL SPECIFICATIONS TT-S-00230C, TYPE 2, CLASS A. ALL EXPOSED SCREWS WILL USE A WEATHERPROOF WASHER AND BE SEALED WITH APPROVED SEALANT.

CLASS-A FIRE RATING
REQUIRES 1/2" PLYWOOD DECK WITH 30LB. FELT UNDERLAYMENT.

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER 33100 No. 2569 STRUCTURAL STATE OF CALIFORNIA

FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. PC-264
AC FLS SS
DATE 8/2/96

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

EXTERIOR ELEVATIONS

DATE: 12-7-95
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.

SHEET No. 2

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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
EXTERIOR ELEVATIONS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

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2

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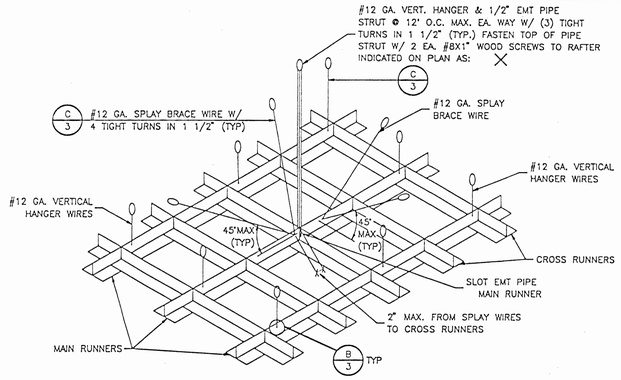
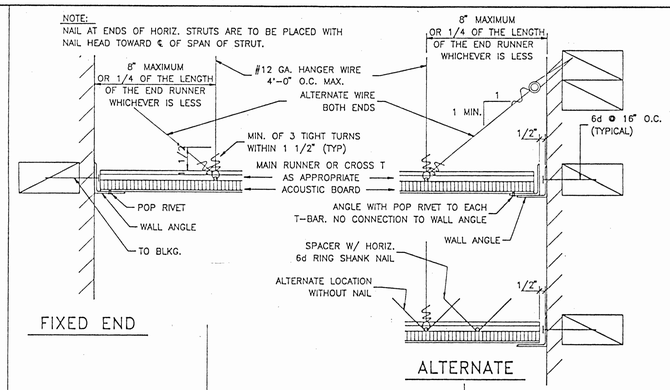
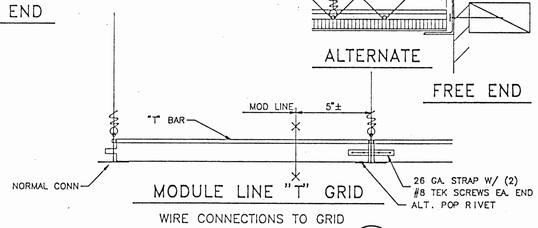


NOTE: SPLAYED BRACING WIRES SHALL BE SPACED NOT MORE THAN 12 FT. ON CENTER.

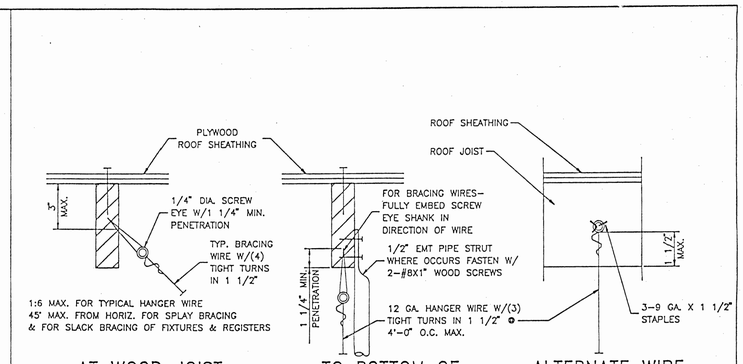
ATTACHMENT FOR CEILING GRID DETAIL — A/3 — NO SCALE





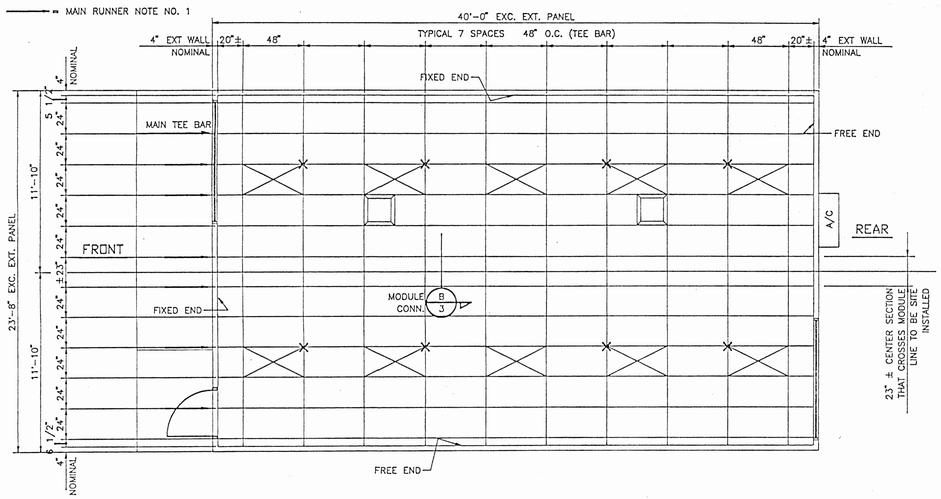
MODULE LINE "T" GRID

WIRE CONNECTIONS TO GRID DETAILS — B/3 — NO SCALE



AT WOOD JOIST OR RAFTER | TO BOTTOM OF JOIST OR RAFTER | ALTERNATE WIRE CONNECTION

CONNECTIONS TO WOOD JOISTS OR RAFTERS DETAIL — C/3 — NO SCALE



CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES

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

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

1. 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA/ORS.
2. PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
4. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
5. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
6. PROVIDE SETS OF 4-#12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
   (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
   (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS

THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA/ORS APPROVAL.

7. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
8. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC., IT IS ACCEPTABLE TO ATTACH LIGHT-WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA/ORS.
9. ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
10. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
11. CLASSIFICATION OF CEILING GRID:
    CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" CHICAGO METALLIC, PER ASTM C635
    MANUFACTURER'S CATALOG NUMBER - MAIN RUNNER HEAVY DUTY MAIN TEE OR EQUAL #200-01.
    MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER CHICAGO METALLIC 1214-01 CROSS TEES.
    MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE N/A.
    ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS 1, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

REGISTERED PROFESSIONAL ENGINEER — DAVID O. SCHLUETER — 33100 — No. 2569 — STRUCTURAL — STATE OF CALIFORNIA

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. PC-264
AC. FLS SS
DATE

24 X 40 RELOCATABLE CLASSROOMS

American Modular Systems

CUSTOMER:

CEILING GRID, DETAILS AND NOTES

DATE: 12-7-95
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
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PROJECT No.

SHEET No. 3

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KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
CEILING GRID, DETAILS AND NOTES

BID SET

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FOUNDATIONS

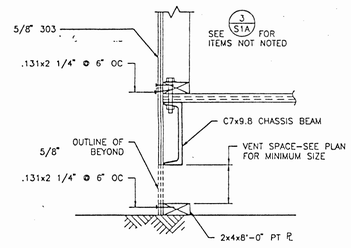
ALL FOUNDATION MATERIALS IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED EXCEPT SHIMS MAY BE REDWOOD OR CEDAR. THE BUILDING(S) SHALL BE SET ON PTDF PADS AND 4"x6" REDWOOD OR PTDF BLOCKS. PRESSURE TREATED DOUGLAS FIR PADS, PLYWOOD GIRDERS, JOISTS ETC. SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING: "THE MATERIAL IN THIS UNIT WAS TREATED PER 1995 CALIFORNIA BUILDING CODE

ALL MATERIAL FOR USE IN GROUND CONTACT SHALL BE STAMPED "FOR GROUND CONTACT" (LP22). THE IN-PLANT INSPECTOR SHALL VERIFY THAT ALL PRESSURE TREATED FOUNDATION MATERIAL IS CUT FROM AWPB STAMPED STOCK AND THAT ALL CUTS AND HOLES ARE RETREATED PER SPECIFICATIONS.

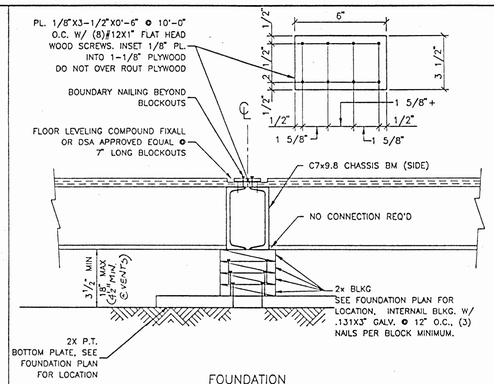
THE IN-PLANT INSPECTOR'S VERIFICATION OF EACH BANDED UNIT SHALL BE ATTACHED TO THE MATERIAL.

CONCRETE OR CONCRETE BLOCK FOUNDATIONS ARE NOT ALLOWED. THE FOOTING DESIGN SHALL PROVIDE FOR SHIMS AND BLOCKS NECESSARY TO PROPERLY INSTALLATION ON SITES NOT LEVEL, BUT WITHIN TOLERANCE ALLOWED.

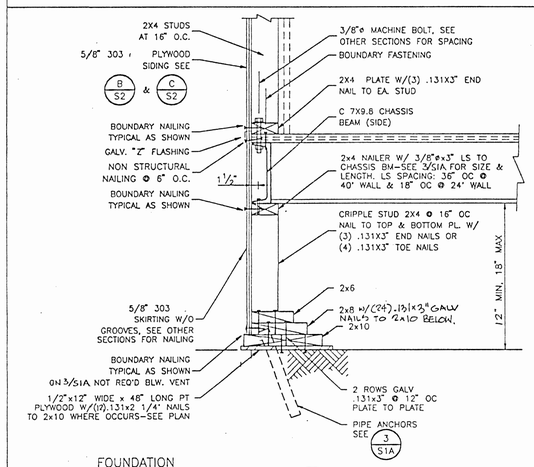
INSTALLATION SHALL BE PERMITTED ON EITHER SOIL, CONCRETE OR A/C PAVING, HAVING SUITABLE DESIGN BEARING CAPACITY, THE BUILDINGS SHALL BE SECURELY FASTENED TO THE FOUNDATIONS. THE FOUNDATIONS AND THE METHOD OF FASTENING SHALL BE SUBJECT TO APPROVAL BY THE AGENCY ARCHITECT AND THE D.S.A. PADS SHALL BE DESIGNED FOR A MAXIMUM OF 1000 PSF LOAD ON THE SOIL. PADS SHALL NOT BE PLACED ON TURF.



FDN DETAIL 1/S1A — NO SCALE

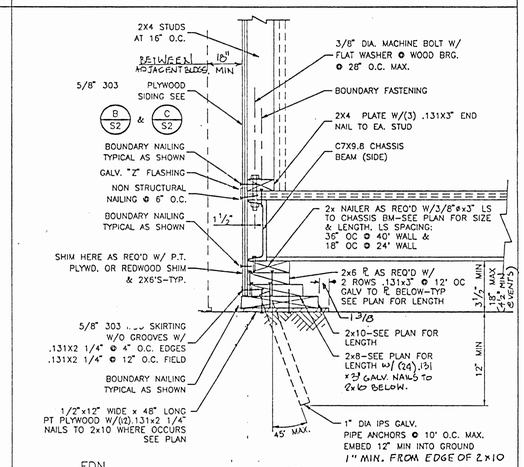


FOUNDATION DETAIL 2/S1A — NO SCALE



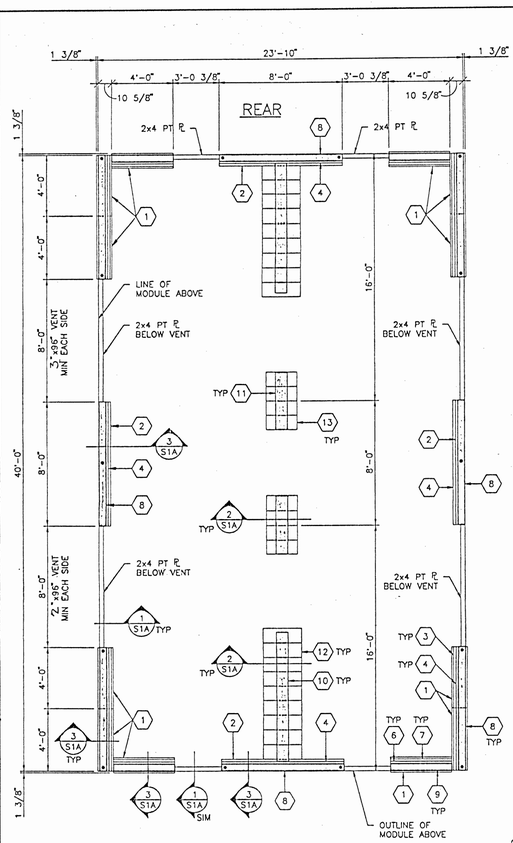
FOUNDATION DETAIL 4/S1A — NO SCALE

*NOTE: CRIPPLE WALL MAY NOT BE USED WITHIN 48" OF BUILDING CORNER



NOTE: WHEN UNDERSIDE OF JOIST IS MORE THAN 9" ABOVE SOIL, CRIPPLE WALL FOUNDATION MAY BE USED. SEE DETAIL 4/S1A.

FDN DETAIL 3/S1A — NO SCALE



WOOD FOUNDATION PLAN A/S1A — 1/4"=1'-0"

LEGEND

1. 1/2"x12" WIDE x 48" LONG PT STRUCTURAL PLYWOOD (CDX PLYWOOD)
2. 2x10x8'-0" LONG PT ℞
3. 2x10x8'-0" LONG ℞
4. 2x8x8'-0" LONG ℞
5. NOT USED
6. 2xBx4'-0" LONG ℞
7. 2x10x4'-0" LONG ℞
8. MULTIPLE 2x6x8'-0" LONG AS REQ'D FOR HEIGHT
9. MULTIPLE 2x6x4'-0" LONG AS REQ'D FOR HEIGHT
10. 2x10x8'-0" LONG ℞ W/ SHIM, SEE 2/S1A
11. 2x10 BLKG, SEE 2/S1A
12. (9)2x12x2'-6" OR (10)2x10x2'-6" OR (13)2x8x2'-6", SEE 2/S1A
13. (4)2x12x2'-0" OR (4)2x10x2'-0" OR (5)2x8x2'-0", SEE 2/S1A

SILL RESTRAINT

ON SOIL:	1"ø GALV. PIPE W/ 12" MIN. PENETRATION BELOW SOIL SURFACE @ 10' O.C. DRILL SILL 1 1/4" MAX. PIPE MAY BE DRIVEN MAX. 45° ANGLE TO VERT.
ON A/C PAVING:	1"ø GALV. PIPE W/ 12" MIN. PENETRATION BELOW PAVING SURFACE @ 10' O.C. DRILL SILL 1 1/4" MAX. OR 20d NAILS THRU SILL PL. @ 32" O.C.
ON CONC. PAVING:	HILTI DS 82-P10 OR EQUAL THRU SILL PL. @ 4'-0" O.C.

• 1" ø GALV. PIPE LOCATIONS-TYPICAL

NOTES

1. TOP OF WOOD PADS TO BE LEVEL.
2. DO NOT INSTALL BUILDINGS IN AREAS OF WATER LINES.
3. SITE TO BE GRADED TO PREVENT WATER PONDING BENEATH THE STRUCTURE.
4. FOUNDATION PLYWOOD TO BE CUT PERPENDICULAR TO THE FACE GRAIN.

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER 3-3100 No 2569 STRUCTURAL STATE OF CALIFORNIA

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NOTE: PER THE CONTACT FOR THIS PROJECT THE BUILDING PAD MUST BE 30' x 50', THE PAD SHALL NOT BE MORE THAN 6" OUT OF LEVEL IN ANY DIRECTION.

WOOD FOUNDATION

24 X 40 RELOCATABLE CLASSROOMS

American Modular Systems

REGISTERED PROFESSIONAL ENGINEER CONRAD J. REINHOLD No. 2637 Exp. 9/99 STRUCTURAL STATE OF CALIFORNIA

CUSTOMER:

FOUNDATION PLAN, DETAILS & NOTES

DATE:	4-1-96
SCALE:	NONE
DRAWN BY:	R.S.
CHECKED BY:	B.J.R.
CHECKED BY:	
SERIAL NO.	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
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△			△		
△			△		
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PROJECT No. 96003

SHEET No. S1A

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KEYNOTES

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FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FOUNDATION PLAN, DETAILS AND NOTES

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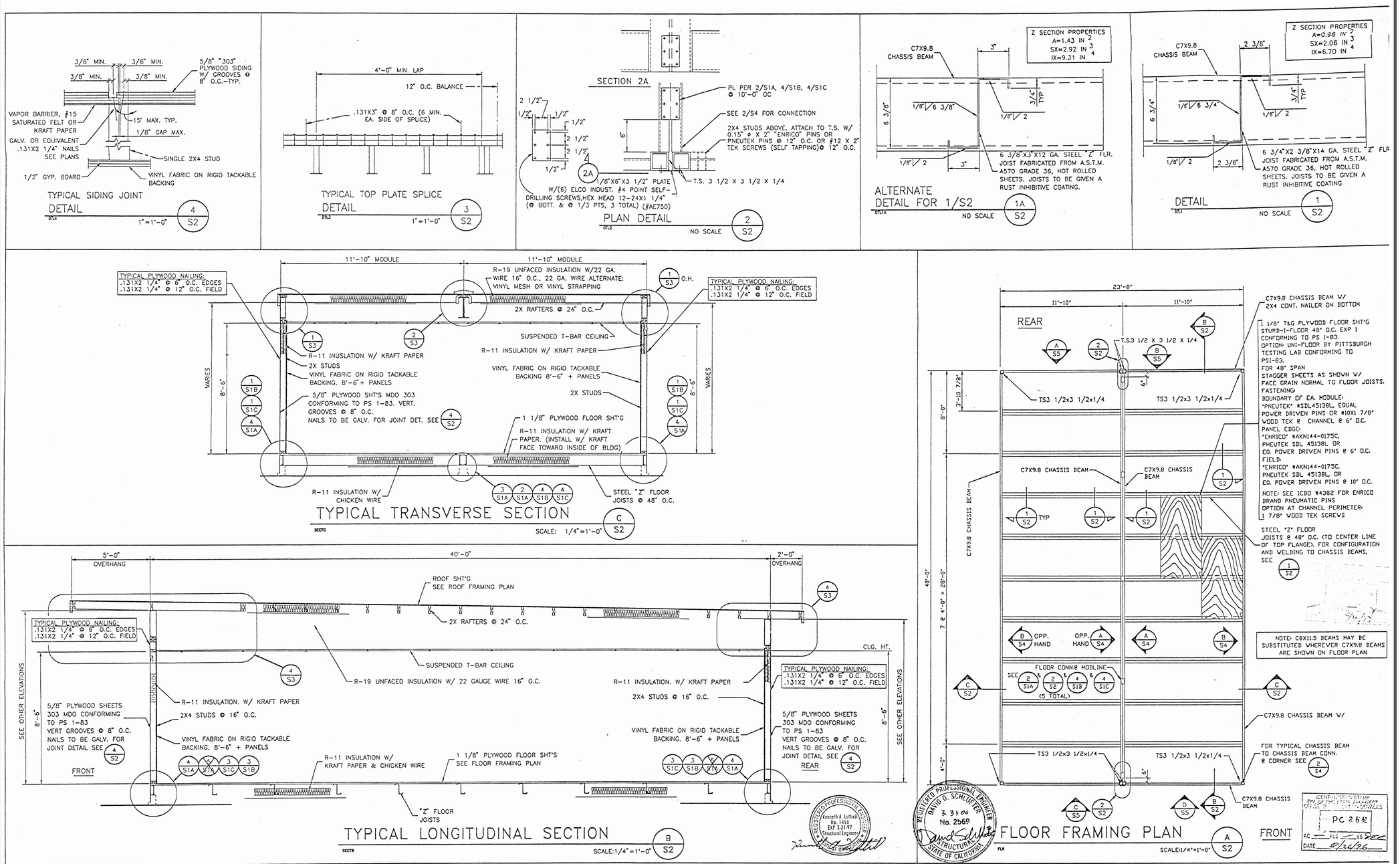

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

FLOOR FRAMING PLAN
AND BUILDING SECTIONS

DATE: 4-1-96
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
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PROJECT No. 96003

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Δ	DESCRIPTION	DATE

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17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FLOOR FRAMING PLAN AND BUILDING SECTIONS

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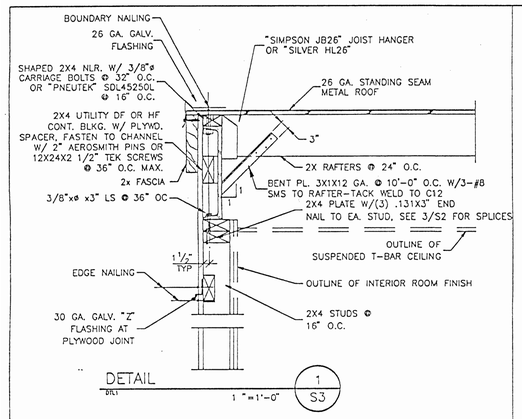

DETAIL 1/S3
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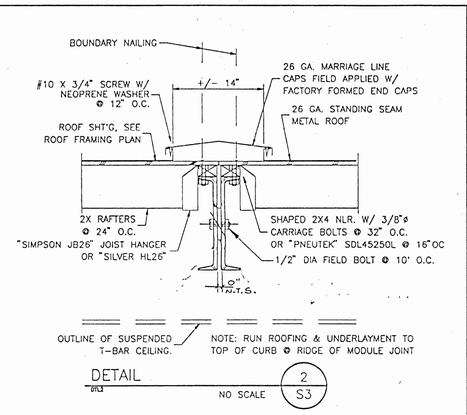

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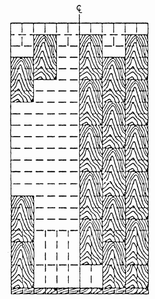
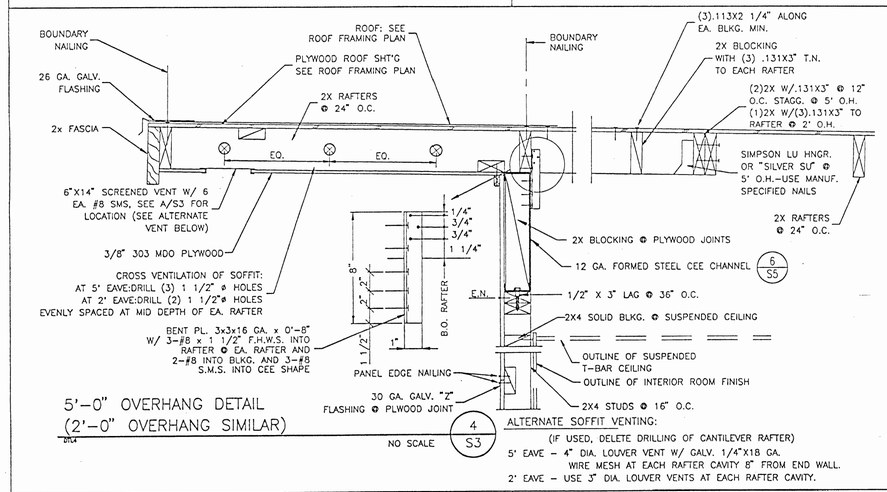
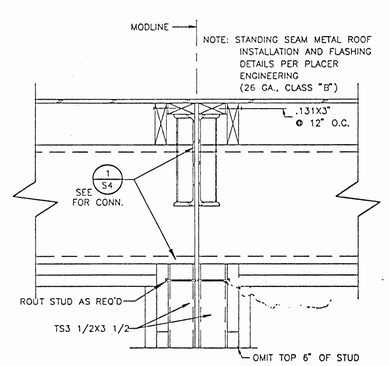


PLYWOOD LAYOUT

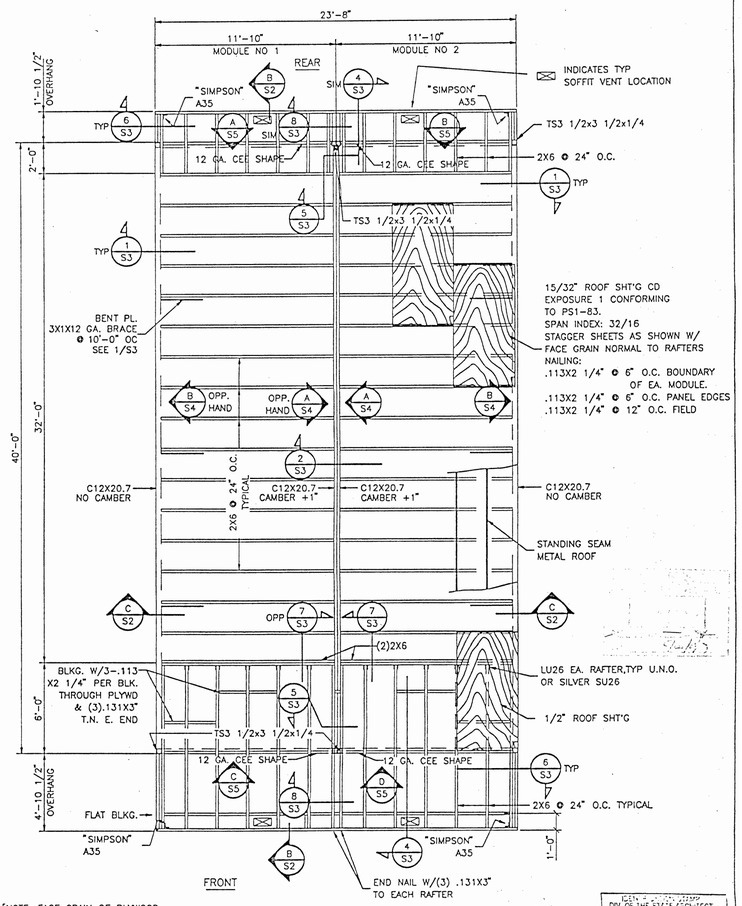


5'-0" OVERHANG DETAIL
(2'-0" OVERHANG SIMILAR)
NO SCALE 4/S3

ALTERNATE SOFFIT VENTING:
(IF USED, DELETE DRILLING OF CANTILEVER RAFTER)
5' EAVE - 4" DIA. LOUVER VENT W/ GALV. 1/4"X18 GA. WIRE MESH AT EACH RAFTER CAVITY 8" FROM END WALL.
2' EAVE - USE 3" DIA. LOUVER VENTS AT EACH RAFTER CAVITY.



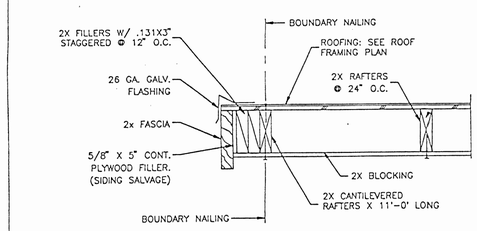
DETAIL 5/S3
NO SCALE



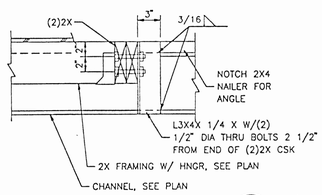
FRONT

[NOTE: FACE GRAIN OF PLYWOOD TO RUN PERP. TO SUPPORTS]

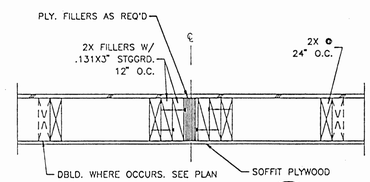
ROOF FRAMING PLAN
SCALE: 1/4"=1'-0" A/S3



DETAIL 6/S3
1 "=1'-0"



DETAIL 7/S3
NO SCALE



DETAIL 8/S3
1 1/2"=1'-0"

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

ROOF FRAMING PLAN & DETAILS

DATE: 11-23-92
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 96003

SHEET No. S3

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LICENSED ARCHITECT JEFFREY ALAN GRAY C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ROOF FRAMING PLAN AND DETAILS

BID SET

CONSTRUCTION DOCUMENTS
A NO.: 02-121807

DATE: 10/26/23
CLIENT PROJ NO: R221551X01

SHEET: S3

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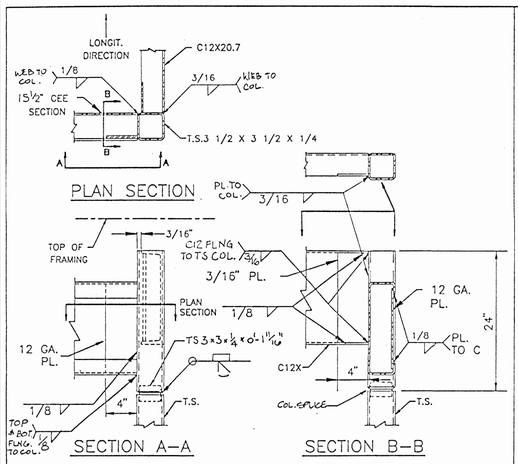
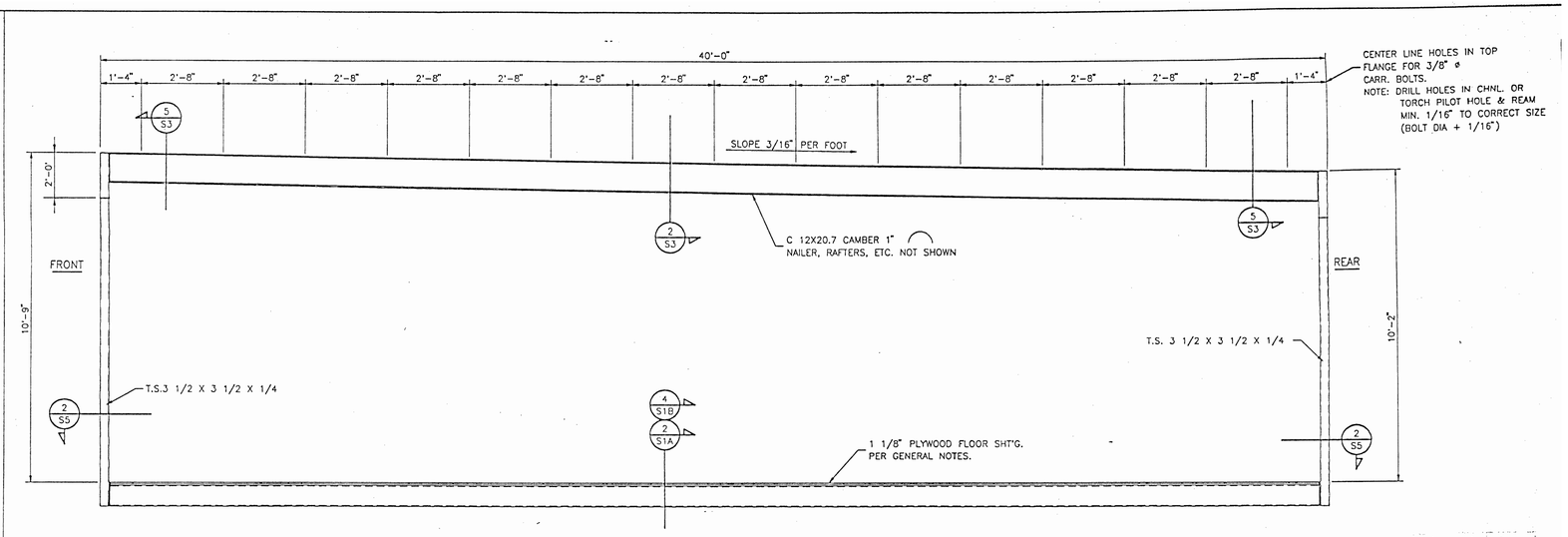
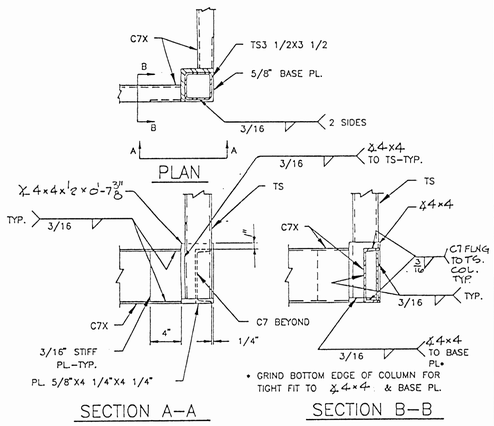


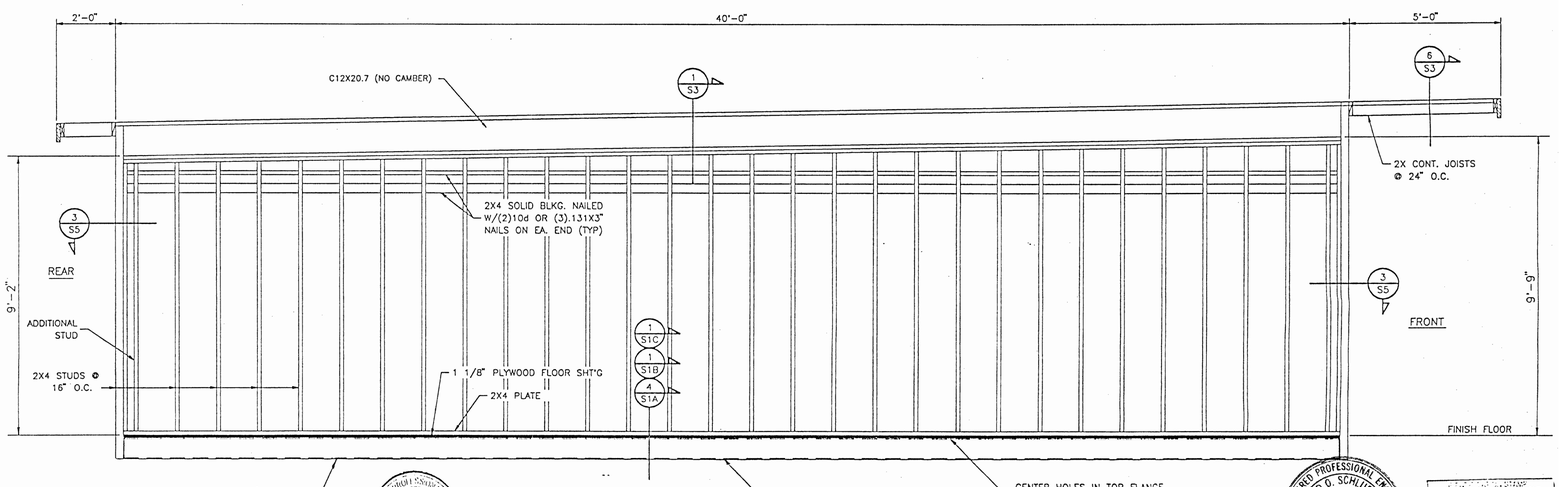
TOP CONNECTION DETAIL
DTL1 1 1/2"=1'-0" 1 S4



FRAMING ELEVATION
SECTB 1/2"=1'-0" A S4



BOTTOM CONNECTION DETAIL
DTL1 1 1/2"=1'-0" 2 S4



FRAMING ELEVATION
SECTB 1/2"=1'-0" B S4

REGISTERED PROFESSIONAL ENGINEER DAVID G. SCHLUETER No. 2569 STRUCTURAL STATE OF CALIFORNIA

DIV. OF THE STATE ARCHITECT OFFICE OF PROJECT REVIEW SERVICES PC-28 AC FLS SS DATE 5-4-96

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINGER No. 2837 Exp. 9/99 STRUCTURAL STATE OF CALIFORNIA

CUSTOMER:

FRAMING ELEVATIONS & DETAILS

DATE: 4-1-96
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
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PROJECT No. 96003

SHEET No. S4

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

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FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FRAMING ELEVATIONS AND DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 CLIENT PROJ NO: R221551X01

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S4

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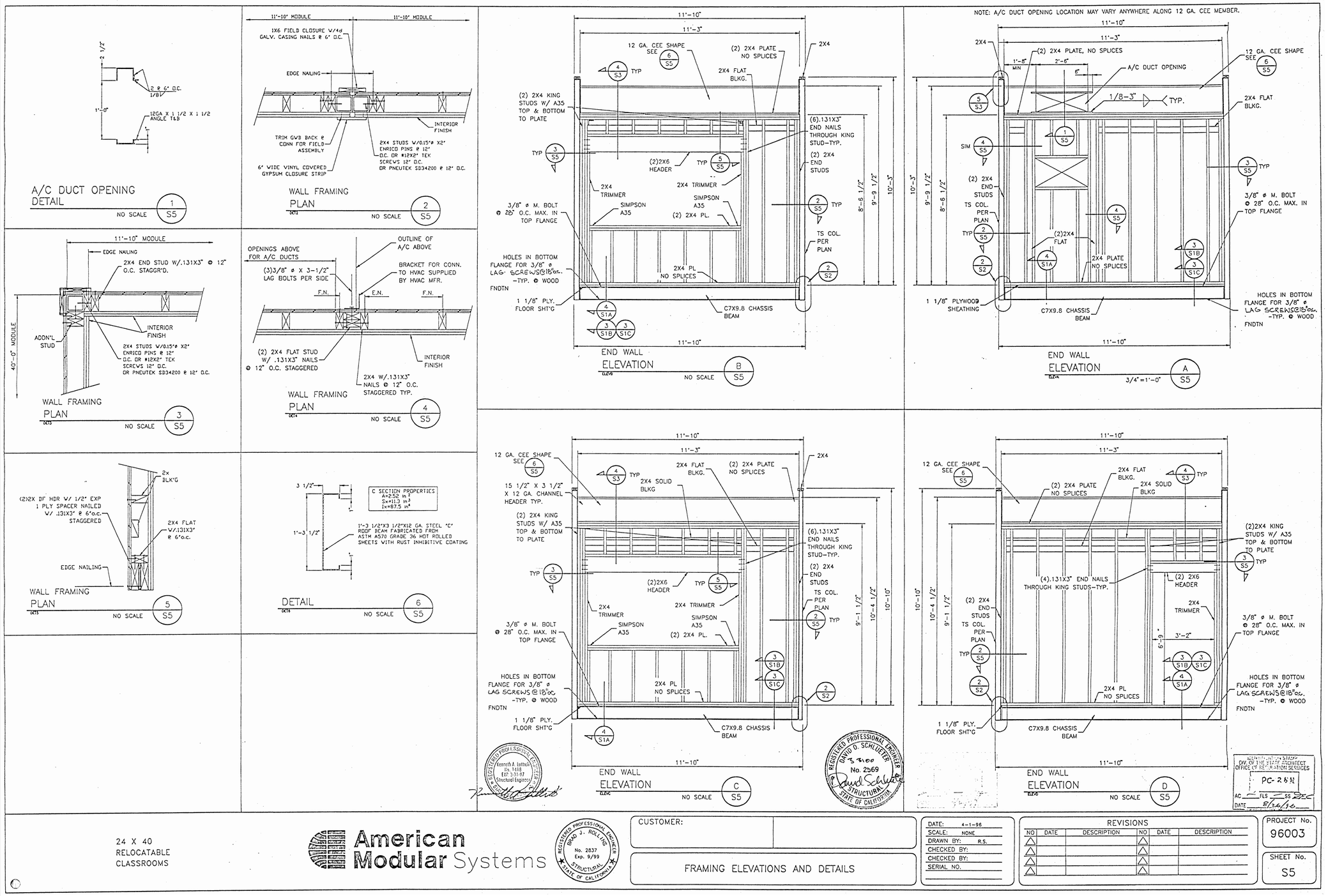

24 X 40
RELOCATABLE
CLASSROOMS

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REGISTERED PROFESSIONAL ENGINEER BRIAN J. ROLLINS No. 2837 Exp. 9/99 STRUCTURAL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER Kenneth A. Lattuca No. 1418 Exp. 3-31-97 Structural Engineer

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER 3-31-00 No. 2569 STRUCTURAL STATE OF CALIFORNIA

CUSTOMER:

FRAMING ELEVATIONS AND DETAILS

DATE:	4-1-96
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CHECKED BY:	
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SERIAL NO.	

REVISIONS

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PROJECT No. 96003

SHEET No. S5

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KEYNOTES

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17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FRAMING ELEVATIONS AND DETAILS

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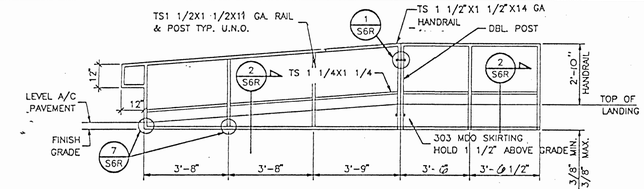
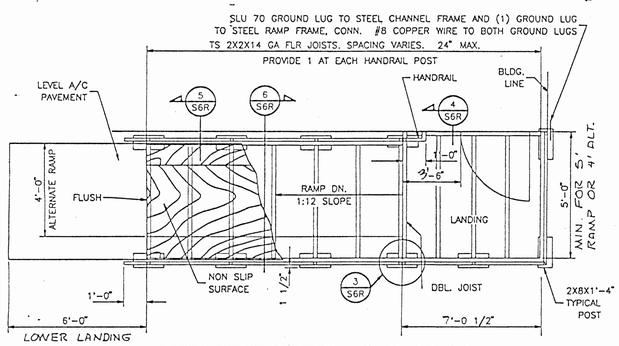


RAMP ELEVATION



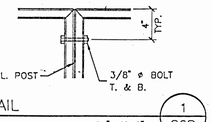
ALTERNATE: RAMP MAY BE FABRICATED 4'-0" WIDE. SEE 6/S6R

OPTIONAL RAMP SEE 6/S6R

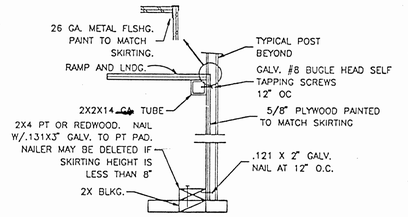
RAMP PLAN

NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN) FOR MOVING

RAMP — 3/8" = 1'-0" — A / S6R

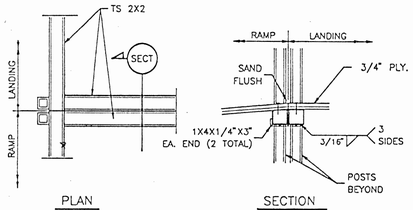


DETAIL — 1 "=1'-0" — 1 / S6R



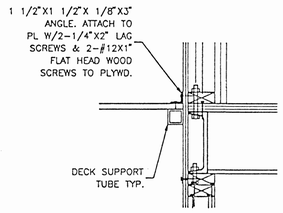
NOTE: FIT PLYWOOD WITHIN 1" MAX OF SOIL,PT PADS AND FRAMING

RAMP SKIRT DETAIL — 1 "=1'-0" — 2 / S6R

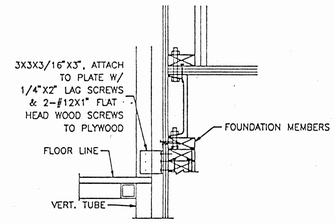


PLAN SECTION

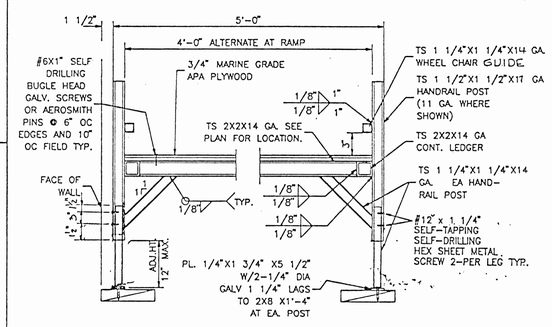
HANDRAIL DETAIL — 1 "=1'-0" — 3 / S6R



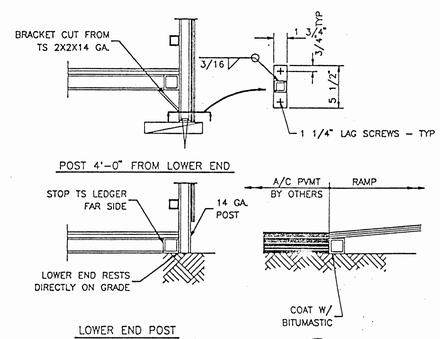
LANDING ATTACHMENT DETAIL — 1 "=1'-0" — 4 / S6R



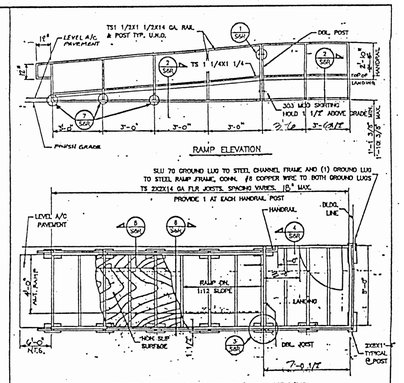
RAMP CONNECTION DETAIL — 1 "=1'-0" — 5 / S6R



HANDRAIL AND RAMP SECTION — 1 "=1'-0" — 6 / S6R



LOWER END POST DETAIL — 1 1/2" = 1'-0" — 7 / S6R



RAMP ELEVATION

ALTERNATE: RAMP MAY BE FABRICATED 4'-0" WIDE. SEE 6/S6R

NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN) FOR MOVING

RAMP PLAN

OPTIONAL RAMP — 1 "=1'-0" — 8 / S6R

ENTRY RAMP AND LANDING SPECIFICATIONS

EACH BUILDING SHALL HAVE A RAMP AND LANDING TO CONFORM TO TITLE 24 CCR SECTIONS 3306 AND 3307. THE RAMP AND LANDING STRUCTURES INCLUDING HANDRAIL AND WHEEL GUIDES ARE TO BE PREFABRICATED METAL IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE.
DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE. TUBING SHALL BE STEEL CONFORMING TO ASTM A500 GRADE B.
THE RAMP SURFACE SHALL BE 3/4" MARINE GRADE PLYWOOD.
RAMP AND LANDING SHALL HAVE A NON-SKID SURFACE FINISH APPLIED. NON-SKID FINISH SHALL BE AMCOE GRIP II MANUFACTURED BY AMERICAN CHEMICAL CO. OR EQUIVALENT. ALL RAMP SURFACES SHALL BE PAINTED AS INDICATED IN SECTION 3.3.19. RAMPS SHALL HAVE HANDRAILS ON BOTH SIDES. WALL MOUNTED HANDRAILS SHALL BE OF SIMILAR CONSTRUCTIONN TO THE INTEGRAL RAMP HANDRAIL.
RAMP AND LANDING SHALL BE FULLY SKIRTED WITH THE SAME MATERIAL USED FOR BUILDING SKIRT. SIDES OF RAMP AND LANDING THAT DO NOT ADJOIN BUILDING WALL SHALL BE SKIRTED. ALL EDGES OF THE PLYWOOD SKIRT SHALL BE SUPPORTED AND PROTECTED FROM WEATHER. FOUNDATION MEMBERS SHALL BE AS FOR BUILDING FOUNDATION. ONLY THE FOUNDATION PAD RESTING ON GRADE MAY EXTEND BEYOND THE OUTSIDE FACE OF THE SKIRT 1" MAXIMUM

OPTIONAL
VERTICAL HANDRAIL POST MAY BE 1 1/2" x 1 1/2" x 14 ga. @ SPACING IS 2'-0" OR LESS.

FLOOR DECKING:
3/4" MARINE EXT. APA 48/24 PLYWOOD W/ NON-SKID SURFACE. (SEE ALTERNATE) DECK SURFACES SHALL BE SEALED ON ALL SIDES. FASTENED TO STEEL FLOOR MEMBERS WITH #10-24 X 1 1/4" LONG PLY-METAL TYPE SCREWS @ 12" O.C.
ALT. FLOOR DECKING:
1. 11 GA SHEET METAL WITH NON-SKID SURFACE.

GROUNDING OF BUILDING COMPONENTS:
CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECCESSARY CONNECTORS TO GROUND THE METAL PORTIONS OF THE BUILDING (I.E. FRAME, RAMP, ETC.) GROUNDING ROD, WIRES AND TESTING SHALL BE PROVIDED BY OTHERS AND MEET THE REQUIREMENTS OF I.R. #8-1 ISSUED BY DSA.

REGISTERED PROFESSIONAL ENGINEER Kenneth A. Luttrell No. 1418 Exp. 3-31-97 Structural Engineer STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER 3 31 00 No. 2569 STRUCTURAL STATE OF CALIFORNIA

Revised structural per OSHPD comments dated 5/8/15
OSHPD
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-264
AC FL
DATE 5/12/15

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

REGISTERED PROFESSIONAL ENGINEER BRAD J. ROLLINS No. 2837 Exp. 9/99 STRUCTURAL STATE OF CALIFORNIA

CUSTOMER:

RAMP PLAN ELEVATION AND DETAILS

DATE: 4-1-96
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
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REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
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PROJECT No. 96003

SHEET No. S6R

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

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VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
RAMP ELEVATION AND DETAILS

BID SET

CONSTRUCTION DOCUMENTS

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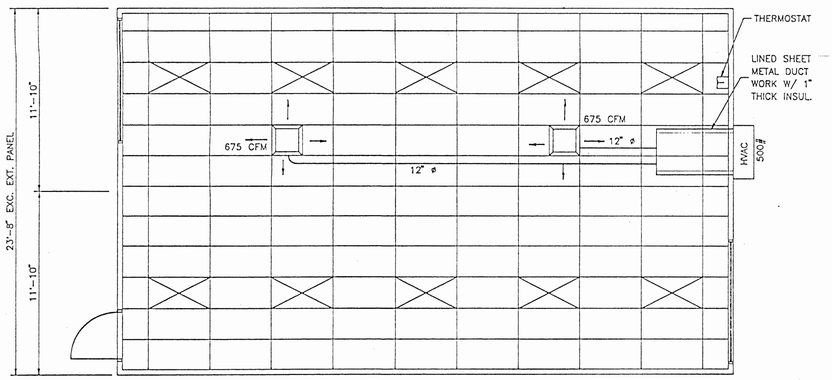
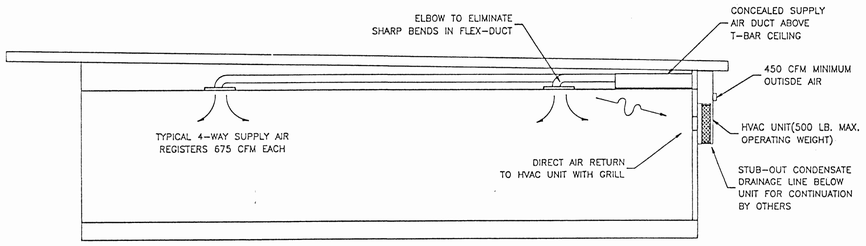


HEAT/SUPPLY AIR DUCT LAYOUT

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



HEAT/SUPPLY AIR DUCT CROSS SECTION

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

GENERAL NOTES
HEATING VENTILATING AND AIR CONDITIONING (HVAC)

1. Heat Pump: Single package wall mounted air to air electric heat pump unit shall be rated in accordance with ARI Standard 240-77.
   Reference Brands: BARD WH42A-XXXXXX
   MARVAIR AVP 42 HPA-08S

   All units shall be 230/208 volt, 1 phase system, UL tested & approved or comparable and meet current energy standards. All units shall incorporate an exterior factory mounted thermostat to sense the outside ambient temperature and stage the electric heat controllers. The circuitry shall prohibit the supplemental electric heat strips from operating simultaneously with the heat pump compressor. The thermostat shall be factory preset at 25 degrees F. and adjusted to the thermal balance point of the structure to allow the heat strips to operate only below that setting. If the outdoor temperature is above this point the heat pump shall operate and the electric heat strips shall be locked out.
   A.) The system shall maintain an automatically controlled indoor classroom temperature of 78 degrees F. When the outdoor dry bulb temperature varies between 100 degrees F. in the summer
   B.) The system must maintain the above temperature when the damper is adjusted to use approximately one third fresh air.
2. Duckwork.
   A.) Construct all ductwork of galvanized sheet metal in accordance with U.M.C., Ashrae Guide Equipment volume and Smacna Low Velocity Duct Construction manual latest editions. All ductwork shall be insulated with 1" thick fiberglass duct wrap with vapor barrier. Provide 1" duct attenuation at all ductwork within 5'0" of HVAC unit.

   B.) Non-metallic ductwork option: In accessible concealed portions of duct system rigid 1" fiberglass or insulated flex-duct with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 5' of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure.
   Reference Brands: Owens-Corning fiberglass ducttboard, 1" thick, and Micro-aire, TYPE 475.
   Non-metallic ductwork shall conform to NFPA 90-A and SMACNA Class 1 rating.
3. Air duct insulation and linings shall comply with flame spread less than or equal to 25, smoke generation less than or equal to 50.
4. Supply air diffusers shall be 675 CFM max. 15"x15" neck, steel, rigid 1" fiberglass or flexduct ductwork specifically designed to provide air thermal cooling systems. 24"x8"x1" Micro-Aire type #475 Owens-Corning, Knauf, Certainteed, or equal and 90- B: UL #131 test, class 1 rating with "SMACNA".
5. Registers and diffusers: Provide three (Min) 4-way throw air diffusers as manufactured Carnes, Titus, Hart and Cooley, Metalaire, Shoemaker, Barber-Coleman or Krueger commercial grade grills and registers
6. Air conditioning controls.
   Thermostat: Provide electronic programmable thermostat. Thermostat shall have the following functions.
   A.) 5 and 2 weekday/weekend programming with 4 separate time/temperature setting for 24-hour period.
   B.) Key board lockout switch.
   C.) Programmable display.
   D.) 2-hour override minimum.
   E.) Status Indicated Led's.
   F.) Battery back-up.
   Provide locking clear thermostat cover with thermostat cover with access hole for program override. White Rodgers 1F92.
7. Thermal insulation
   A.) Roof Insulation: R-19 Unfaced.
   B.) Walls Insulation: R-11 Kraft Faced.
   C.) Floors Insulation: R-11 Kraft Faced.
   Flame spread and smoke development shall conform to California Building Code sec. 707.
8. Factory-made air ducts. Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of U.M.C. 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 compliancewith U.M.C. Standard No. 6-1 and its class designation. These ducts shall be listed and shall be installed in accordance with the terms of their listing and the requirements of UMC STD. 6-1.

DUCT SUPPORT
Flex duct to be supported with 1-1/2" wide x 26 ga. galv. strap @ max 6'-0" o.c. Attach to rafter W/2 #8 SMS @ each end.
Supply air plenum to be supported with 1-1/2" wide x 26 ga. galv. straps min. 2 per plenum.
Supply air box and diffusers to be supported with (2) 12 ga. hanger wires to box @ opposite corners.
Supply air box and diffusers to be braced with (2) 12 ga. slack wires to box @ opposite corners. Attach supply air diffusers to ceiling grid to resist a lateral load equal to the weight of the diffuser and supply air box W/2 #8 SMS.

THESE DRAWINGS COMPLY
WITH THE ENERGY CONSERVATION REQUIREMENTS
OF TITLE 24 OF THE STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER 3-31-00 No. 2569 STRUCTURAL STATE OF CALIFORNIA

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AC FLS 65
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24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

FLOOR PLAN & NOTES

DATE:	12-7-95
SCALE:	NONE
DRAWN BY:	R.S.
CHECKED BY:	
CHECKED BY:	
SERIAL NO.	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
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PROJECT No.

SHEET No. M 1

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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAD C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FLOOR PLAN AND NOTES

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

M1

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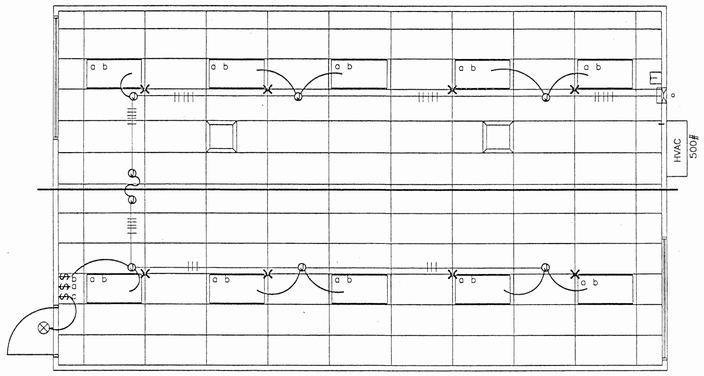
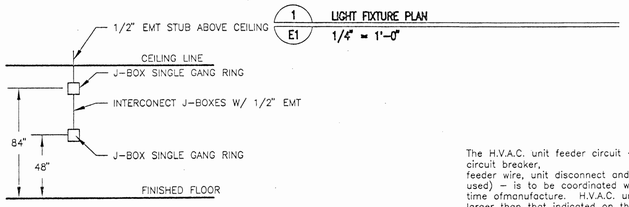


1 / E1 LIGHT FIXTURE PLAN
1/4" = 1'-0"



SPECIAL J-BOX INSTALLATION DETAIL

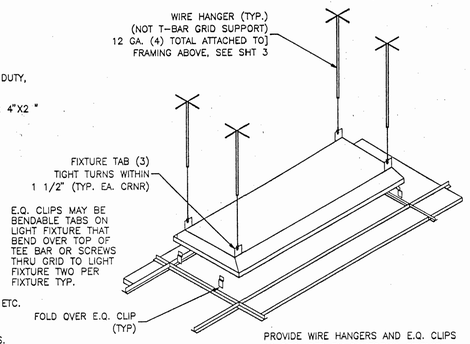
The H.V.A.C. unit feeder circuit – panel circuit breaker, feeder wire, unit disconnect and fuses (where used) – is to be coordinated with the name plate data at the time ofmanufacture. H.V.A.C. units having KVA ratings larger than that indicated on this panel schedule will not be allowed to be installed on this building. If 60 degrees C. wire is to be used in this installation, calculations demonstrating ampacity be provided on the drawing.

STANDARD ELECTRICAL SYMBOLS

- FLUORESCENT LIGHTING FIXTURE – SURFACE MOUNTED.
- FLUORESCENT LIGHTING FIXTURE – RESCESSED.
- FLUORESCENT LIGHTING FIXTURE – WALL MOUNTED (EXTERIOR)
- INCANDESCENT LIGHTING FIXTURE – WALL MOUNTED (INTERIOR).
- DUPLEX WALL CONVENIENCE OUTLETS +15".
- SINGLE POLE LIGHT SWITHCES +48", HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- LECTRICAL CROSSOVER J-BOXES ABOVE T-BAR CEILING #1-4"X1 ",#22 4"X2 "
- WALL CLOCK OUTLET WITH POWER OUTLET +84".
- a — SWITCH SUBSCRIPTS – a=DEVICE CONTROLLED.
- 15 AMP DUPLEX RECEPTACLE +15". HOSPITAL GRADE.
- J — JUNCTION BOX – SIZE AND TYPE AS REQUIRED.
- PANELBOARD – SEE SCHEDULE.
- TERMINAL CABINET – SIZE AND TYPE AS NOTED.
- CONDUIT CONCEALED IN CEILING OR WALL.
- CONDUIT CONCEALED BELOW FLOOR OR GRADE.
- HOMERUN TO RESPECTIVE PANEL TO TERMINAL.
- INDICATES 1#14 (GREEN) GROUND WIRE, OTHER SIZES AS INDICATED.
- BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION IS A 2#14 WIRE CIRCUIT, FOR MORE THAN 2#14 WIRES AS FOLLOWS, —///— 3#14, —////— 4#14 ETC. FOR OTHER SIZES AS FOLLOWS, —//10 3#10, —////6 4#6 ETC.

NOTE

- A — FIXTURE IDENTIFICATION – LETTER INDICATES TYPE.
- N.I.E.S. — ABBREV. FOR NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPEC'S.
- MT — ABBREV. FOR EMPTY CONDUIT WITH POLY PULL CORD.
- FUSED DISCONNECT SWITCH SIZE AS REQUIRED. PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT SUPPLIER.
- [W.E.F.] — WALL MOUNTED EXHAUST FAN N.I.E.S. CONNECT AS REQUIRED.
- 50 AMP 250 VOLT RANGE RECEPTACLE.
- F — FIRE ALARM STATION – OUTLET ONLY, 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"CENTERLINE
- FIRE ALARM HORN – OULET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.
- FIRE ALARM VISUAL ALARM– OUTLET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER BOTTOM +80". A.F.F. BUT NO GREATER THAN +96". IF CEILING MOUNTED PER NFPA72 TABLE 6-4.4.1(b).
- SPEAKER– OUTLET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"
- INTERCOM TELEPHONE– OUTLET ONLY– 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"
- M — FIRE ALARM MINI HORN – OULET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.



SUPPORT DETAIL

PROVIDE WIRE HANGERS AND E.Q. CLIPS AS REQUIRED BY CALIFORNIA SEISMIC REGULATIONS CBC 2501.A.5 & IR. 47-4

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 760 &CA. FIRE CODE ART. 10.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE DIVISION OF THE STAT ARCHITRCT.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC 250-94 & 95.
2. ALLOW FOR 12' MOVEMENT IN ANY DIRECTION IF PAD FOUNDATION IS USED.
3. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
4. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

FIXTURE NOTES:

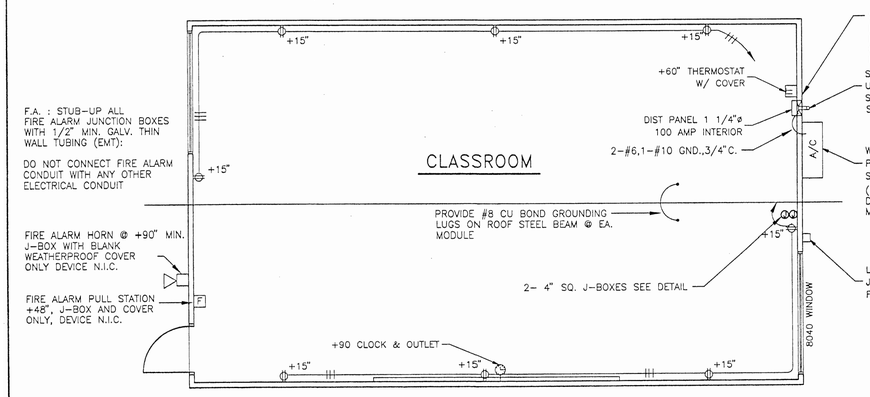
1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINATES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
	2'X4' FLOURESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS. ENERGY SAVING BALLAST. (4)35 WATT TUBES, WT. 27 LBS.	156 W	CRESCENT 24TF440DLA
	FLOURESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE. .125 THICK CLEAR PRISMATIC ONE PIECE LENS W/ NEOPRENE GASKET & "POSIGRIP" STAINLESS STEEL SCREWS.	(2) 7W TT 2700 K	KENALL 3714 OR LITHONIA 202 2/7PL LP
	INCANDESCENT WALL MOUNTED	150W	PROGRESS P3011x30"

SEE TYPICAL CLASSROOM LAYOUT FOR LOCATIONS OF ALL DEVICES.
FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.

ELECTRICAL

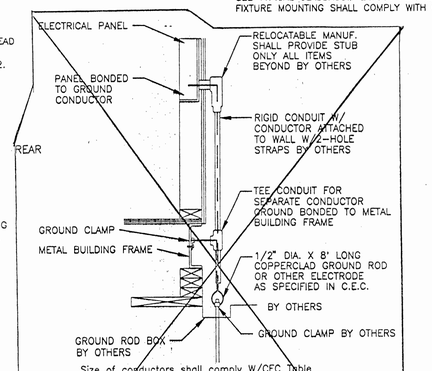
1. Electrical service drop and connections supplied by others.
2. Manufacturer to provide stub-out from back of electrical panel through the exterior wall for receiving either underground or overhead service & fitting for grounding cable.
3. Electrical panel board shall be recess mounted inside the building. Sized to accommodate all connected loads including spaces as shown. Overcurrent protective devices in the panel boards have adequate short circuit interrupting capacity. All buses including bus shall be copper or aluminum.
4. 2x4 Flourescent fixtures shall be steel frame, lens shall be hinged and locked in place by two locking devices. The lens diffusers shall be KHS, Inc. #KSH-12, Carolite, Inc. #C-12 or Plaskolite, Inc. #PL21A. Minimum lens thickness shall be .125 inch.
5. Flourescent ballast shall be energy saver while maintaining full light output, class "P" equipped with thermal protectors, guaranteed against failure for (2) years and be replaced from inside the fixture.
6. Clock – 12" dial clock on clock outlet.
   A) Clock shall be General Electric model 2912 129V 60 cycle
   B) Clock outlet shall be Bryant #2828 or equal with seperable hanging clip & app'd recept.



2 / E1 ELECTRICAL PLAN
1/4" = 1'-0"

FIRE ALARM
Junction boxes – Galvanized sheet metal, square or rectangular with blank covers. Locate one box at rear of building near main electrical panel at +18- above finish floor for future connection.
Covers – Install gasketed, metal, waterproof, finish covers at exterior locations. Install finish covers at interior locations.

If testing results determine fire alarm audibility does not meet 15db over ambient noise levels, additional fire alarm signaling devices may be required by the enforcing anency



Size of conductors shall comply W/CEC Table

Bond separate conductors from ground rod to electrical panel & metal building from.
In addition to the detail shown above, bond the electrical ground to metal water pipe embedded @ least 10' into the soil if available.
Electrical bond modules together W/#8 CU @ modline. By manufacturer. Check resistance to ground. If resistance exceeds 25 OHMS, install additional ground rods as required. Grounding detail per I-R 8-1.

A / E1 BUILDING GROUND DETAIL
N.T.S.

VOLTS: 120/240 SINGLE PHASE				PANEL: A							FEED: EXTERIOR LB		
MAIN: 100 AMP MAIN BKR.				LOCATION: INTERIOR							MOUNTING: FLUSH		
LOAD	WATTS A	WATTS B	BRK. AMP	BRK. P	C I R	A	B	C I R	BRK. P	BRK. AMP	WATTS A	WATTS B	LOAD
LIGHTS, FLUORESCENT	960		15	1	1			2	2	50	4476		A/C HVAC UNIT
LIGHTS, FLUORESCENT		960	15	1	3			4	2	50		4476	
EXTERIOR LIGHT & CLOCK	100		15	1	5			6					SPACE
DUPLEX RECEPT.		720	15	1	7			8					
DUPLEX RECEPT.	720		15	1	9			10					
SPACE					11			12					
					13			14					
					15			16					
PHASE WATTAGE	1880	1680			17			18			4476	4476	PHASE WATTAGE
TOTAL WATTS "A" LEG: 6556			TOTAL WATTS A+B=2743								TOTAL WATTS "B" LEG 6156		
TOTAL WATTS: 15455			65	AMPS		120/240V		SINGLE PHASE				100AMP BUS.	

FEEDERS: TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

3 / E1 ELECTRICAL DISTRIBUTION PLAN
1/4" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUFFER No. 2569 STRUCTURAL STATE OF CALIFORNIA
3 31 00

NOTE: THIS PAGE IS BASED ON PC264 CHANGES INCLUDE NOTE ON LIGHT DETAIL AND ADDED J-BOXES AT REAR OF CLASSROOM.

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AC.____ FLS.____ SS.____
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RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:
RELOCATABLE CLASSROOMS AT VARIOUS SITES
LODI UNIFIED SCHOOL DISTRICT
LODI, CALIFORNIA

FLOOR PLAN & NOTES

DATE: 10-10-96
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
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PROJECT No.

SHEET No. E 1

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FLOOR PLAN AND NOTES

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

E1

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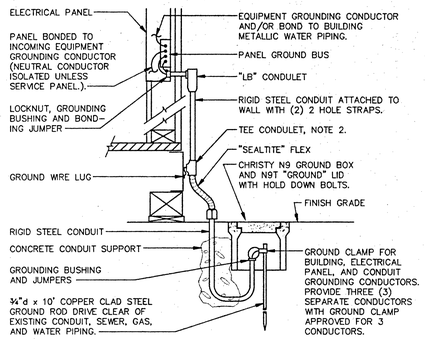
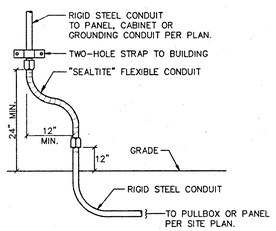


NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-95.
2. ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). OMIT AT WOOD FRAME BUILDINGS AND PROVIDE COUPLING IN LIEU OF TEE CONDULET.
3. TEST RESISTANCE TO GROUND USING MEGGER. TESTS SHALL BE PERFORMED BY AN INDEPENDANT FIRM NORMALLY ENGAGED IN GROUND TESTING. 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. TESTS SHALL BE WITNESSED BY SITE INSPECTOR. FORWARD FINAL TEST RESULTS TO ARCHITECT AND DSA/ORS.

GROUNDING DETAIL - PORTABLE BLDGS.

NO SCALE

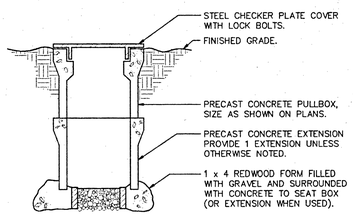


NOTES:

1. VIEW IS FACING BACK OF BUILDING.
2. CONDUIT SHALL RISE FROM GRADE 12" FROM BUILDING WALL, TO ALLOW 12" OF BUILDING MOVEMENT IN ALL DIRECTIONS.
3. DETAIL APPLIES TO ALL CONNECTIONS TO PORTABLE BUILDING, INCLUDING POWER, GROUNDING, AND SIGNAL.

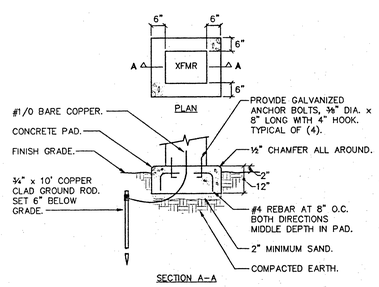
DETAIL - FLEX CONNECTION AT PORTABLE

NO SCALE



DETAIL - PRECAST CONCRETE PULLBOX

NO SCALE



DETAIL - TRANSFORMER PAD

NO SCALE

FIRE ALARM NOTES

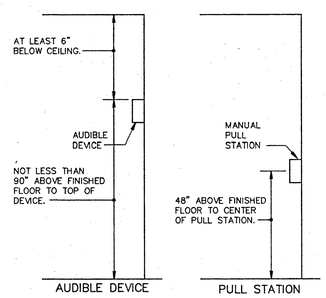
1. INSTALLATION OF THE FIRE PROTECTION SIGNALING SYSTEM EQUIPMENT SHALL NOT BE STARTED UNTIL CONTRACTOR'S SUBMITTAL HAS BEEN APPROVED BY THE ARCHITECT.
2. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE INSPECTOR OF RECORD.
3. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRIC CODE.
4. IF FIRE ALARM TESTING RESULTS DETERMINE ALARM AUDIBILITY DOES NOT REACH 15 db OVER AMBIENT NOISE LEVELS, ADDITIONAL SIGNALING DEVICES MAY BE REQUIRED BY THE INSPECTOR OF RECORD.
5. SOUND PRODUCED BY NEW ALARM HORNS SHALL HAVE SAME BASIC SOUND AND PATTERN AS THAT PRODUCED BY EXISTING HORNS.
6. THIS IS A MANUAL F.A. SYSTEM. AUTO DETECTORS ARE NOT REQUIRED BY DSA.
7. ANY UNUSED BOXES PROVIDED BY THE PORTABLE BUILDING MANUFACTURER FOR FA USE SHALL BE PROVIDED WITH BLANK PLATES BY THIS CONTRACTOR.

FIRE ALARM OPERATION MATRIX

	ANNUNCIATE ALARM CONDITION AT FACP	ANNUNCIATE TROUBLE CONDITION AT FACP	ACTIVATE AUDIBLE DEVICES THROUGHOUT THE SITE.		
MANUAL STATION	X		X		
SMOKE DETECTOR	X		X		
HEAT DETECTOR	X		X		
SYSTEM TROUBLE		X			

SIGNAL CABLE SCHEDULE

TYPE	CONDUCTOR	USE
A	WEST PENN 357	INTERCOM
B	NOT USED	
C		
D		
E	3#12 THWN	CLOCK
F	2#14 THWN	FIRE ALARM INITIATION
G	2#12 THWN	FIRE ALARM SIGNAL
H	NOT USED	
I	NOT USED	
J	NOT USED	
K	3#10 THWN	CLOCK TRUNK
L	2#10 THWN	FIRE ALARM INITIATION TRUNK
M	2#10 THWN	FIRE ALARM SIGNAL TRUNK



DETAIL - FA DEVICE ELEVATIONS

NO SCALE

SYMBOL LIST

— · —	EXISTING CONDUIT RUN
— — —	CONDUIT RUN UNDERGROUND
———	CONDUIT RUN EXPOSED ON BUILDING EXTERIOR AND CONCEALED INSIDE BUILDING. SEE NOTE 1.
	UNDERGROUND PULLBOX, CHRISTY N16 UNLESS OTHERWISE NOTED
J	JUNCTION BOX
S	FIRE ALARM SYSTEM SMOKE DETECTOR AT CEILING
H AC	FIRE ALARM SYSTEM HEAT DETECTOR ABOVE CEILING
M	FIRE ALARM SYSTEM MANUAL STATION, 48" AFF TO CENTER OF DEVICE
F	FIRE ALARM SYSTEM HORN, +90" MINIMUM. (M = MINIHORN)
	CLOCK OUTLET AND SECONDARY CLOCK
	CLASSROOM SPEAKER
	EXTERIOR SPEAKER
△	CLASSROOM INTERCOM HANDSET, +48"
	FLAG REFERRING TO NUMBERED NOTE ON SAME SHEET
A.F.F.	ABOVE FINISHED FLOOR
BRKR	BREAKER
C	CONDUIT
C.O.	CONDUIT ONLY
(E)	EXISTING
FA	FIRE ALARM
G, GND	GROUND
IA	INTRUSION ALARM
(N)	NEW
PFB	PROVISION FOR FUTURE BREAKER
TYP	TYPICAL
WP	WEATHER PROTECTED

NOTES:

1. UNLESS NOTED, NO CROSSBARS ON CONDUIT RUN INDICATES ½"C., TWO #12 CONDUCTORS. CROSSBARS INDICATE NUMBER OF #12 CONDUCTORS IN CONDUIT. CONDUCTOR SIZE OTHER THAN #12 NOTED ON DRAWINGS.
2. SYMBOLS FOR EXISTING ARE THE SAME AS SHOWN EXCEPT DRAWN DASHED.

ELECTRICAL SCOPE DRAWINGS

THESE ELECTRICAL DRAWNGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ELECTRICAL DESIGN CONCEPT, MAJOR ELECTRICAL ELEMENTS, AND THE TYPE OF ELECTRICAL SYSTEMS. AS SCOPE DOCUMENTS, THESE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

GENERAL NOTES

1. EXISTING UNDERGROUND UTILITIES ARE PRESENT, BUT THEIR EXACT LOCATIONS ARE NOT KNOWN. CONTRACTOR SHALL LOCATE AND PROTECT BEFORE TRENCHING OR EXCAVATING IN ANY AREA, CONSULT UTILITY COMPANIES, "AS-BUILT DRAWINGS", AND SCHOOL MAINTENANCE PERSONNEL FOR FOR LOCATION OF EXISTING UNDERGROUND WORK. IF EXISTING PIPING OR UTILITIES ARE DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPAIR IMMEDIATELY AT OWN EXPENSE. NEW UNDERGROUND SHALL BE MODIFIED AS NECESSARY TO CONFORM TO EXISTING CONDITIONS.
2. EXISTING CIRCUITS AND SERVICES SHALL NOT BE INTERRUPTED EXCEPT BY SPECIFIC APPROVAL OF THE SCHOOL. ALL SHUTDOWNS SHALL BE SCHEDULED WITH THE SCHOOL.
3. PROVIDE GROUND ROD AND GROUND BOX AT RELOCATABLE BUILDING AND CONNECT TO PANEL, METAL WATER PIPING, AND BUILDING STEEL FRAME. SEE "GROUNDING DETAIL".
4. INFORMATION GIVEN, CONCERNING ELECTRICAL INSTALLATION IS AS EXACT AS COULD BE SECURED, BUT EXTREME ACCURACY IS NOT GUARANTEED. CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BIDS AND SATISFY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUTER 3-31-00 No. 2569 STRUCTURAL STATE OF CALIFORNIA

CHARLES A. MARTIN & ASSOC.
CONSULTING ENGINEERS
SACRAMENTO CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER CHARLES A. MARTIN NO. E 2186 ELECTRICAL STATE OF CALIFORNIA
JOB # 2751 EXP. 6/30/98

COMPLETE PLAN SUBMITTAL

BECKMAN ELEM SCHOOL – 1996/97 PORTABLES 201 SCARBOROUGH DR., LODI, CA 95240		
SCALE: AS NOTED	APPROVED BY:	DRAWN BY JRJ
DATE: 5 FEB 97		REVISED
Lodi Unified School District Facility Planning Department 1305 E. Vine St., Lodi, CA 95240		DRAWING NUMBER E2

AGENCY APPROVAL:

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LODI USD

HMC Architects

R221551X01

LICENSED ARCHITECT JEFFREY ALAN GRAD C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ELECTRICAL SYMBOLS, NOTES AND DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 CLIENT PROJ NO: R221551X01

SHEET:

E2

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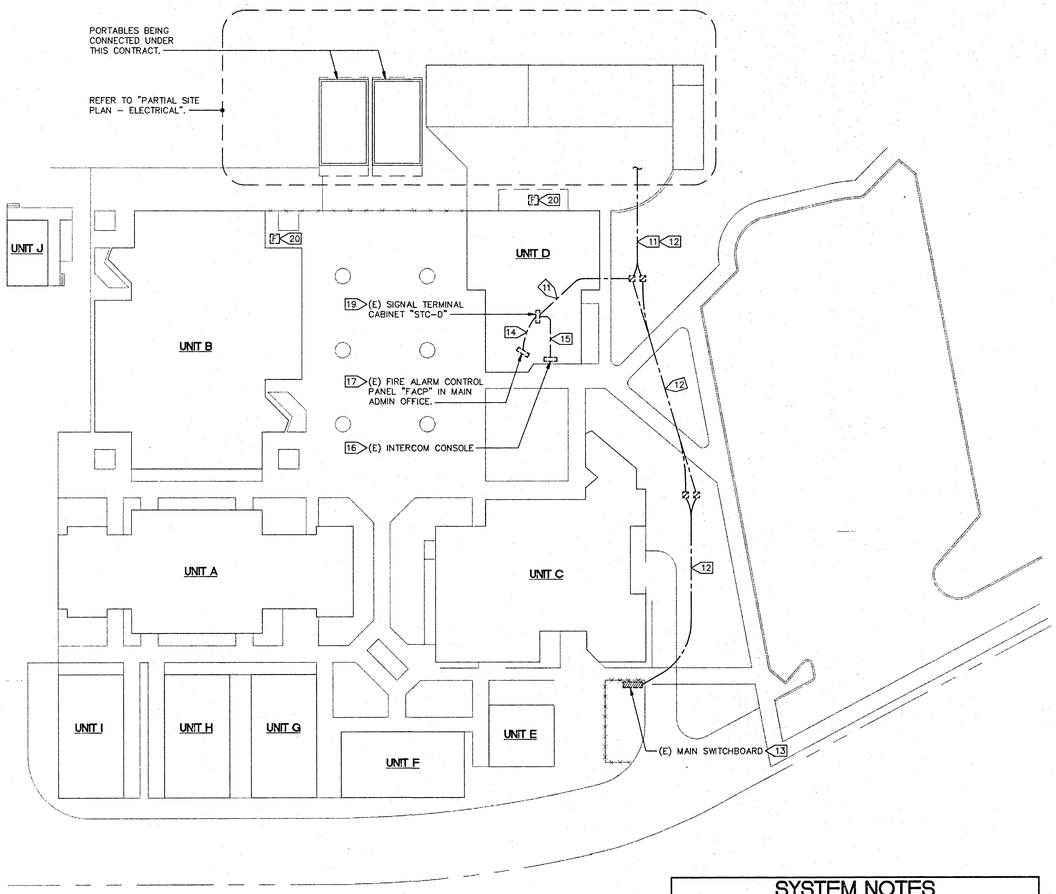
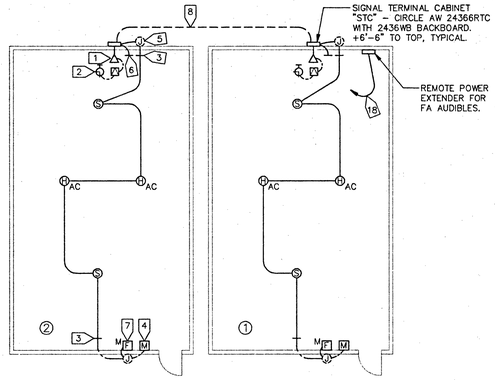


SITE PLAN – ELECTRICAL

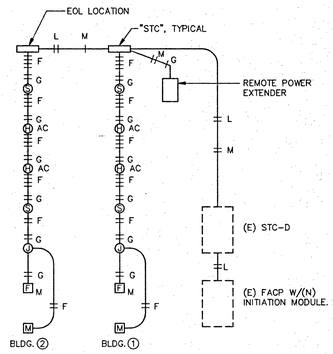
SCALE: 1" = 30'-0"



NOTE: REFER TO "FA RISER DIAGRAM" FOR FA WIRING.

FLOOR PLAN – SIGNAL

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



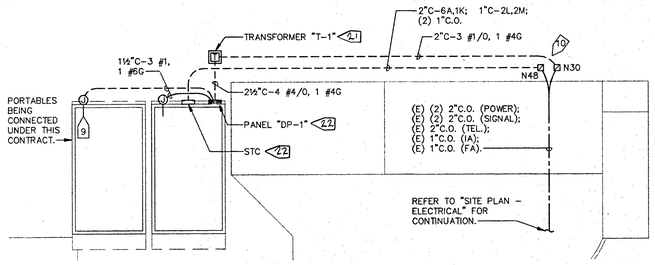
FA RISER DIAGRAM

NUMBERED NOTES

1. PROVIDE HANDSET STATION AND SPEAKER AT (E) BOXES. PROVIDE (N) 1A,1E IN (E) CONDUIT FROM PUSHBUTTON TO SPEAKER. PROVIDE ½" NIPPLE FROM PUSHBUTTON BOX TO STC WITH 1A,1E, TYPICAL.
2. PROVIDE CLOCK HANGER AND CLOCK AT (E) OUTLET BOX. PROVIDE (N) E CABLE IN (E) CONDUIT TO SPEAKER OUTLET, TYPICAL.
3. LOCATE (E) ½" STUB ABOVE CEILING. CONNECT (N) CONDUIT AND EXTEND AS SHOWN. TYPICAL.
4. PROVIDE MANUAL STATION AT (E) BOX, TYPICAL.
5. PROVIDE ½"C. FROM (E) BOX TO STC, TYPICAL.
6. PROVIDE (N) ¾"C.O. FROM STC TO ACCESSIBLE SPACE ABOVE CEILING. TURN INTO BUILDING FROM EXTERIOR USING "LB", TYPICAL.
7. PROVIDE "CUT-IN" BOX AND ½"C (FLEX) TO (E) J-BOX, TYPICAL.
8. 1"C-1A,1K; 1"C-2L,1M; 1"C.O.
9. CONNECT PANEL PROVIDED WITH PORTABLE CLASSROOM. FIELD VERIFY EXACT REQUIREMENTS, TYPICAL.
10. LOCATE (E) STUBS AND MODIFY AS REQUIRED TO BRING INTO (N) POWER AND SIGNAL PULLBOXES RESPECTIVELY.
11. PROVIDE (N) 6A,1K IN (E) 2"C.O. (SIGNAL). PROVIDE (N) 2L,2M IN (E) 1"C.O. (FA).
12. PROVIDE (N) 3 #1/0, 1 #4G IN (E) 2"C.O. (POWER).
13. PROVIDE (N) 125/3 BREAKER IN (E) SPACES. PROVIDE NAMEPLATE TO READ: PANEL "DP-1" (VIA TRANSF).
14. PROVIDE 2L IN (E) C.
15. PROVIDE 6A IN (E) CONDUIT.
16. CONNECT (N) CABLES AS REQUIRED TO ACTIVATE (N) DEVICES. LABEL SWITCHES USED.
17. (E) SIMPLEX 4002 PANEL. PROVIDE (N) SIMPLEX 4002-5000 SERIES 4-ZONE EXPANSION MODULE. CONNECT (N) AUTOMATIC ZONE AND MANUAL ZONE FOR (N) PORTABLES.
18. PROVIDE ½"C-2 #12 TO BUILING PANEL. PROVIDE 20/1 BREAKER IN (E) SPACE. LABEL DIRECTORY "FIRE ALARM POWER EXTENDER".
19. CONNECT (N) CLOCK CONDCTORS TO (E) CLOCK CIRCUIT AT TERMINALS. CONNECT (N) FA SIGNAL CONDUCTRS INTO (E) ALARM LOOP AT TERMINALS.
20. (E) EXTERIOR FA HORN.
21. 75KVA, 480V TO 208Y/120V, 3Ø, 4W, TOTALLY ENCLOSED.
22. COORDINATE LOCATIONS OF PANEL AND TERMINAL CABINETS WITH BUILDING FEATURES, SUCH AS WINDOWS, DOWNSPOUTS, HEAT PUMP, ETC.

SYSTEM NOTES

1. (E) INTERCOM SYSTEM IS BOGEN. ADDITIONS TO (E) SYSTEM SHALL BE PERFORMED BY BOGEN AUTHORIZED REPRESENTATIVE. CONTACT MARK III, (916) 381-8080 (SACRAMENTO).
2. (E) FIRE ALARM SYSTEM IS SIMPLEX. ADDITIONS TO (E) SYSTEM SHALL BE PERFORMED BY SIMPLEX AUTHORIZED REPRESENTATIVE. CONTACT SIMPLEX, (916) 638-3700 (SACRAMENTO).



PARTIAL SITE PLAN – ELECTRICAL

SCALE: 1" = 20'-0"

PANEL	TYPE	MAINS	BUS	VOLTAGE	Ø	W	FLUSH / SURF / W= 20"	SPECIAL
DP-1 ③	NQOD①	BRKR	225A	208Y/120V	3	4	X	

SERVING ②	C.B.	#	POLES	#	C.B.	SERVING ②
SPARE	100/2		1 2	2	100/2	PORTABLE CLASSROOM
			3 4			
SPARE	100/2		5 6	6	100/2	PORTABLE CLASSROOM
			7 8			
SPACE	PFB		9 10		PFB	SPACE
			11 12			
			13 14			
			15 16			
			17 18			

① BASED ON SQUARE D.
② PROVIDE CLASSROOM NUMBER AS DIRECTED BY DISTRICT.
③ NEMA 3R.

COMPLETE PLAN SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUEFER No. 2569 STRUCTURAL STATE OF CALIFORNIA

CHARLES A. MARTIN & ASSOC.
CONSULTING ENGINEERS
SACRAMENTO CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER CHARLES A. MARTIN NO. E 2186 ELECTRICAL STATE OF CALIFORNIA
JOB # 2751 EXP. 6/30/98

BECKMAN ELEM SCHOOL – 1996/97 PORTABLES
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17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ELECTRICAL SITE AND FLOOR PLAN

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

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E3

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ELECTRICAL WORK – GENERAL REQUIREMENTS

PART 1 – GENERAL

1.01 GENERAL CONDITIONS

A. CONDITIONS OF THE CONTRACT AND DIVISION ONE APPLY TO ALL WORK OF THIS SECTION.

1.02 REQUIREMENTS

A. RULES AND REGULATIONS: ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE FOLLOWING:

1. CALIFORNIA ELECTRICAL CODE.
2. CALIFORNIA BUILDING CODE.
3. CALIFORNIA CODE OF REGULATIONS, TITLE 8, ELECTRICAL SAFETY ORDERS.

NOTHING IN THESE DRAWINGS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE CODES.

WHENEVER INDICATED MATERIAL, WORKMANSHIP, ARRANGEMENT, OR CONSTRUCTION IS OF HIGHER QUALITY OR CAPACITY THAN THAT REQUIRED BY THE ABOVE RULES AND REGULATIONS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL TAKE PRECEDENCE. SHOULD THERE BE ANY DIRECT CONFLICT BETWEEN THE RULES AND REGULATIONS AND THE DRAWINGS AND/OR SPECIFICATIONS, THE RULES SHALL GOVERN.

B. PERMITS, FEES, AND INSPECTIONS: CONTRACTOR SHALL OBTAIN ALL PERMITS AND ARRANGE FOR OWNER TO PAY REQUIRED FEES TO ANY GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THE WORK OF THIS SECTION. INSPECTIONS REQUIRED BY ANY LOCAL ORDINANCES DURING CONSTRUCTION SHALL BE ARRANGED BY THE CONTRACTOR.

ALL WORK AND MATERIALS COVERED BY THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS SHALL AT ALL TIMES BE SUBJECT TO INSPECTION BY THE ARCHITECT OR HIS REPRESENTATIVE. ANY MATERIAL NOT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, OR NOT INSTALLED IN A NEAT AND WORKMANLIKE MANNER, SHALL, UPON ORDER FROM THE ARCHITECT, BE REMOVED FROM THE PREMISES OR CORRECTIVE ACTION TAKEN WITHIN THREE (3) DAYS; AND IF MATERIAL IN QUESTION HAS BEEN INSTALLED, THE ENTIRE EXPENSE FOR REMOVING AND REINSTALLING SHALL BE BORNE BY THE CONTRACTOR.

ON COMPLETION OF THE WORK, SATISFACTORY EVIDENCE SHALL BE FURNISHED TO THE ARCHITECT TO SHOW THAT ALL WORK HAS BEEN INSTALLED IN ACCORDANCE WITH THE CODES.

C. SPECIFICATIONS AND CONTRACT DRAWINGS: ACCURACY OF DATA GIVEN HEREIN AND ON THE DRAWINGS ARE AS EXACT AS COULD BE SECURED, BUT THEIR EXTREME ACCURACY IS NOT GUARANTEED. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR, AND EXACT LOCATIONS, DISTANCES, LEVELS, ETC., WILL BE GOVERNED BY THE CONSTRUCTION AND EXISTING CONDITIONS AND THE CONTRACTOR SHALL ACCEPT SAME WITH THIS UNDERSTANDING.

DRAWINGS AND SPECIFICATIONS MAY BE SUPERCEDED BY LATER DETAIL SPECIFICATIONS AND DETAIL DRAWINGS PREPARED BY THE ARCHITECT, AND THE CONTRACTOR SHALL CONFORM TO THEM AND TO SUCH REASONABLE CHANGES IN THE CONTRACT DRAWINGS AS MAY BE CALLED FOR BY THESE REVISED DRAWINGS WITHOUT EXTRA COST TO THE OWNER.

LAYOUTS OF EQUIPMENT, ACCESSORIES, AND WIRING SYSTEMS ARE DIAGRAMMATIC (NOT PICTORIAL), BUT SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. EXISTING CONDITIONS SHALL BE EXAMINED NOTING ALL CONDITIONS THAT MAY AFFECT THIS WORK. REPORT CONFLICTING CONDITIONS TO THE ARCHITECT FOR ADJUSTMENT BEFORE PROCEEDING WITH WORK.

SHOULD CONTRACTOR PROCEED WITH WORK WITHOUT SO REPORTING MATTER, HE DOES SO ON HIS OWN RESPONSIBILTY, AND SHALL ALTER WORK IF DIRECTED BY THE ARCHITECT, AT HIS OWN EXPENSE. RIGHT IS RESERVED TO MAKE MINOR CHANGES IN LOCATIONS OF EQUIPMENT AND WIRING SYSTEMS SHOWN, PROVIDING CHANGE IS ORDERED BEFORE CONDUIT RUNS AND/OR WORK DIRECTLY CONNECTED TO SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.

D. STRUCTURAL REQUIREMENTS: INSTALLATION UNDER THIS SECTION SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE. OBTAIN THE ARCHITECT'S APPROVAL BEFORE PERFORMING ANY CUTTING OR PATCHING OF CONCRETE, MASONRY, OR WOOD STRUCTURE.

E. EXAMINATION OF SITE: THE CONTRACTOR SHALL BE HELD TO HAVE VISITED THE SITE AND SATISFIED HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. HE SHALL CHECK EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK. WHERE SERVICES OF OTHER FIRMS ARE RETAINED BY CONTRACTOR (SUCH AS FOR SIGNAL WORK) THOSE FIRMS SHALL INVESTIGATE EXISTING SYSTEMS AND DETERMINE LABOR AND MATERIALS REQUIRED TO ADD DEVICES OR MODIFY SYSTEMS. NO ALLOWANCES SHALL SUBSEQUENTLY BE MADE IN CONTRACTOR'S BEHALF FOR ANY EXTRA EXPENSE TO WHICH HE OR HIS "SUBS" MAY BE PUT DUE TO FAILURE OR NEGLECT TO DISCOVER CONDITIONS AFFECTING THE WORK.

F. SHOP DRAWINGS, SUBSTITUTIONS, MATERIALS, AND SUBMITTALS:

1. SHOP DRAWINGS AND ALL SUPPORTING DATA SHALL BE SUBMITTED AS INSTRUMENTS OF THE CONTRACTOR ON HIS TRANSMITTAL FORM AND WHO SHALL CERTIFY THAT THE SUBMITTALS MEET ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS AND CONFORM TO STRUCTURAL AND SPACE CONDITIONS. (AT LEAST ONE SET OF SUBMITTALS SHALL HAVE CHECK MARKS AT EACH ITEM INDICATING THAT THE CONTRACTOR HAS VERIFIED COMPLIANCE WITH ABOVE REQUIREMENTS.)

2. WHEN SPECIFIC NAMES ARE USED IN CONNECTION WITH MATERIALS, THEY ARE USED AS STANDARDS ONLY, BUT THIS IMPLIES NO RIGHT UPON THE PART OF THE CONTRACTOR TO USE OTHER MATERIALS OR METHODS UNLESS APPROVED AS EQUAL IN QUALITY AND UTILITY BY THE ARCHITECT IN WRITING.

3. WHENEVER AN ITEM OF EQUIPMENT OR SYSTEM IS DESCRIBED HEREIN OR ON THE DRAWINGS IN A DESCRIPTIVE, FUNCTIONAL, OR OPERATIONAL MANNER AS OPPOSED TO CATALOG NUMBER OR TYPE, THEN THE CONTRACTOR'S SUBMITTAL SHALL INCLUDE ALL SUCH DESCRIPTIVE, FUNCTIONAL, OR OPERATIONAL FEATURES TO PROVE FULL EQUALITY TO SPECIFIED ITEM OR SYSTEM.

4. SHOULD THE CONTRACTOR FAIL TO SUBMIT THE SPECIFIED ITEMS WITHIN THE TIME SCHEDULE OR FAIL TO NAME ITEMS MEETING SPECIFICATIONS, OR SHOULD THE CONTRACTOR'S FIRST SUBMITTAL FAIL TO MEET APPROVAL, THEN THE RIGHT IS RESERVED BY THE ARCHITECT TO SELECT ANY OR ALL ITEMS IN QUESTION, WHICH SELECTION SHALL BE FINAL AND BINDING UPON THE CONTRACTOR. THE MATERIALS SELECTED OR APPROVED BY THE ARCHITECT SHALL BE USED IN THE WORK AT NO ADDITIONAL COST TO THE OWNER.

5. WITHIN FIFTEEN (15) DAYS AFTER AWARD OF THE CONTRACT, SUBMIT SEVEN (7) BOUND COPIES OF BROCHURES CONTAINING COMPLETE INFORMATION AND CATALOG CUTS ON ALL EQUIPMENT, INCLUDING THAT WHICH IS TO BE FURNISHED AS SPECIFIED. INCLUDE NAMES, ADDRESSES AND PHONE NUMBERS OF FIRMS PROPOSED FOR SIGNAL WORK AND GROUND TESTING. THE BROCHURES SHALL BE BOUND AS COMPLETE VOLUMES OR BOUND ACCORDING TO CLASSIFICATIONS OF EQUIPMENT SUCH AS POWER, FIXTURES, SIGNALS, AND MISCELLANEOUS.

6. APPROVAL OF A SUBSTITUTION DOES NOT AUTHORIZE ANY DEVIATION FROM THE UTILITY, SIZE, OR FUNCTION OF THE SPECIFIED ITEM UNLESS SPECIFICALLY POINTED OUT AND APPROVAL REQUESTED IN THE LETTER OF SUBMITTAL. RESPONSIBILITY FOR CONFLICTS DUE TO SPACE LIMITATIONS IS NOT RELIEVED BY APPROVAL OF A SUBSTITUTION. IF REVISION OF WIRING, PIPING, OR ARRANGEMENT OF OTHER EQUIPMENT IS REQUIRED BY SUBSTITUTIONS, PREPARE DRAWINGS SHOWING SUCH REVISIONS, AND AFTER APPROVAL, FURNISH SEVEN (7) COPIES FOR FILE AND FUTURE REFERENCE.

7. UNLESS OTHERWISE SHOWN OR SPECIFIED, MATERIAL SHALL BE NEW, FULL WEIGHT, STANDARD, THE BEST QUALITY OF ITS KIND, AND SATISFACTORY TO THE ARCHITECT. UNLESS OTHERWISE SHOWN OR SPECIFIED, MAJOR EQUIPMENT SHALL BE THE PRODUCT OF A MANUFACTURER WHO HAS, FOR A PERIOD OF NOT LESS THAN FIVE (5) YEARS, BEEN IN SUCCESSFUL MANUFACTURE OF THE EQUIPMENT, AND WHO HAS A NATIONALLY DISTRIBUTED CATALOG COVERING RATINGS AND SPECIFICATIONS OF SAID EQUIPMENT.

8. ELECTRICAL MATERIALS SHALL BEAR THE LABEL OF, OR BE LISTED BY, THE UNDERWRITERS LABORATORIES UNLESS OF A TYPE FOR WHICH LABEL OR LISTING SERVICE IS NOT PROVIDED.

9. MATERIALS AND COMPONENTS SHALL CONFORM TO INDUSTRY STANDARD, INCLUDING:

NEMA – NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
ANSI – AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM – AMERICAN SOCIETY FOR TESTING MATERIAL
IPCEA – INSULATED POWER CABLE ENGINEER'S ASSOCIATION
USA – UNITED STATES OF AMERICA STANDARDS

10. SAMPLES OF MATERIALS, AND EQUIPMENT SHALL BE SUBMITTED FOR APPROVAL IF REQUESTED.

G. IDENTIFICATION OF EQUIPMENT: NAMEPLATES SHALL BE INSTALLED ON ELECTRICAL EQUIPMENT. NAMEPLATES SHALL ADEQUATELY DESCRIBE THE ITEM AND ITS FUNCTION OR USE OF THE PARTICULAR EQUIPMENT INVOLVED. EQUIPMENT TO BE LABELED SHALL INCLUDE THE FOLLOWING:

1. SIGNAL TERMINAL CABINETS, DISTRIBUTION PANELS AND THE LIKE.
2. NEW BREAKERS AT EXISTING SWITCHBOARDS.

NAMEPLATE MATERIAL SHALL BE LAMINATED PHENOLIC PLASTIC, BLACK FRONT AND BACK WITH WHITE CORE. ENGRAVING SHALL BE THROUGH THE OUTER LAYER. EMBOSSED PLASTIC PRESSURE SENSITIVE LABELS ARE NOT ACCEPTABLE.

NAMEPLATES SHALL BE SECURELY FASTENED TO THE EQUIPMENT WITH #4 PHILLIPS ROUND HEAD CADMIUM PLATED STEEL SELF-TAPPING SCREWS OR BRASS BOLTS.

H. RECORD DRAWINGS: THE CONTRACTOR WILL BE FURNISHED WITH TWO (2) SETS OF WHITE PRINTS. ONE SET SHALL BE MARKED AS THE WORK IS INSTALLED, SHOWING THE WORK THAT HAS BEEN INSTALLED. THE OTHER SET SHALL BE MARKED SHOWING DEVIATIONS FOR THE WORK SHOWN AND THE LOCATIONS OF MAJOR ITEMS OF EQUIPMENT AND FEEDERS, DIMENSIONED FROM COLUMN OR WALL LINES.

I. CLEANING AND CLEANUP: AFTER ALL WORK HAS BEEN ACCOMPLISHED, ELECTRICAL WORK SHALL BE CLEANED TO REMOVE ALL DUST, DIRT, GREASE, PAINT, OR OTHER MARKS. ALL ELECTRICAL EQUIPMENT SHALL BE LEFT IN A CLEAN CONDITION INSIDE AND OUT, SATISFACTORY TO THE ARCHITECT. KEEP BUILDINGS AND PREMISES FREE FROM ACCUMULATED WASTE MATERIALS, RUBBISH, AND DEBRIS RESULTING FROM WORK HEREIN, AND, UPON COMPLETION OF SAID WORK, REMOVE TOOLS, APPLIANCES, SURPLUS MATERIALS, WASTE MATERIALS, RUBBISH, DEBRIS, AND ACCESSORY ITEMS USED IN OR RESULTING FROM SAID WORK AND LEGALLY DISPOSED OF OFF THE SITE.

J. INTERRUPTION OF SERVICES: POWER AND SIGNAL SERVICES TO EXISTING BUILDINGS AND RELATED CIRCUITS ARE TO REMAIN IN OPERATION AND SHALL NOT BE INTERRUPTED EXCEPT BY SPECIFIC APPROVAL BY THE OWNER. IF IT IS DEEMED NECESSARY TO SHUT DOWN CIRCUITS FOR THE INSTALLATION OF NEW WORK, SUCH SHUT DOWN SHALL BE SCHEDULED WITH THE OWNER WHO MAY, AT HIS OPTION, HAVE A REPRESENTATIVE PRESENT. SHUTDOWN SHALL BE SCHEDULED "AFTER HOURS" OR ON WEEKEND WHEN INTERRUPTION WOULD CAUSE DISTURBANCE TO SCHOOL ACTIVITIES. ANY ACCIDENTAL INTERRUPTION OF SERVICE TO CIRCUITS OR EQUIPMENT AS A RESULT OF WORK PERFORMED BY THE CONTRACTOR SHALL, AT THE CONTRACTOR'S EXPENSE, BE RESTORED IMMEDIATELY IN A MANNER ACCEPTABLE TO THE OWNER.

K. INSPECTION: THE CONTRACTOR SHALL COOPERATE WITH THE ARCHITECT AND SHALL PROVIDE ASSISTANCE AT ALL TIMES FOR INSPECTION OF THE ELECTRICAL WORK PERFORMED UNDER THIS CONTRACT. HE SHALL REMOVE COVERS, OPERATE DEVICES, OR PERFORM ANY REASONABLE WORK WHICH, IN THE OPINION OF THE ENGINEER, WILL BE NECESSARY TO DETERMINE THE QUALITY OF ADEQUACY OF THE WORK.

L. MANUFACTURER'S DIRECTIONS: FOLLOW MANUFACTURER'S DIRECTIONS WHERE THESE DIRECTIONS COVER POINTS NOT INCLUDED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

M. WORKMANSHIP: GOOD WORKMANSHIP SHALL BE EVIDENCED IN THE INSTALLATION OF ALL ELECTRICAL MATERIALS AND EQUIPMENT. EQUIPMENT SHALL BE LEVEL, PLUMB AND TRUE WITH THE STRUCTURE AND OTHER EQUIPMENT. ALL MATERIALS SHALL BE FIRMLY SECURED IN PLACE AND ADEQUATELY SUPPORTED AND PERMANENT. THE RECOMMENDATIONS OF THE NATIONAL ELECTRICAL CONTRACTOR'S ASSOCIATION STANDARD OF INSTALLATION SHALL BE FOLLOWED EXCEPT WHERE OTHERWISE SPECIFICALLY DIRECTED.

N. OPERATING TEST: AFTER THE INSTALLATION IS COMPLETE, AND AT SUCH TIME AS THE ENGINEER AND OTHER AUTHORITIES HAVING JURISDICTION MAY REQUEST, THE CONTRACTOR SHALL CONDUCT AN OPERATING TEST FOR APPROVAL.

O. CONTRACTOR'S SUPERVISION: THE ELECTRICAL CONTRACTOR SHALL PERSONALLY, OR THROUGH AN AUTHORIZED AND COMPETENT REPRESENTATIVE, CONSTANTLY SUPERVISE THE WORK FROM ITS BEGINNING TO ITS COMPLETION AND ACCEPTANCE. HE SHALL, AS FAR AS POSSIBLE, KEEP THE SAME FOREMAN AND WORKERS ON THE WORK FROM ITS COMMENCEMENT TO ITS COMPLETION.

P. SCHEDULING OF WORK:

1. DUE TO ITS NATURE, THIS WORK WILL HAVE TO PROCEED WITH A DEFINITE SEQUENCE OF OPERATIONS TO MINIMIZE OUTAGES AND TO CONTINUE FACILITIES TO CERTAIN AREAS. THE SCHOOL WILL REMAIN IN OPERATION DURING THE WORK AND THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN REQUIRED SERVICES.

2. SPECIAL PRECAUTIONS SHALL BE TAKEN TO INSURE SAFETY OF STUDENTS AND SCHOOL PERSONNEL DURING CONSTRUCTION. INSURE NO TRENCHES ARE LEFT OPEN AND NO EQUIPMENT LEFT UNSUPERVISED.

Q. COPIES OF CODES, SAFETY ORDERS, SUBMITTALS, SPECIFICATIONS, DRAWINGS, ADDENDA, AND AS BUILTS SHALL BE ON THE JOB AND IN POSSESSION OF PERSON RESPONSIBLE FOR ELECTRICAL WORK. (FOREMAN OR GENERAL FOREMAN.)

R. GUARANTEE: ACCEPTANCE OF THE CONTRACT FOR THIS WORK INCLUDES THIS GUARANTEE: THE CONTRACTOR GUARANTEES THAT HE HAS PERFORMED THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR ALSO AGREES TO REPLACE OR REPAIR, AS NEW, ANY DEFECTIVE WORK, MATERIALS, OR PART WHICH MAY APPEAR WITHIN ONE (1) YEAR OF FINAL PAYMENT IF IN THE OPINION OF THE ARCHITECT OR THE OWNER THE DEFECT IS DUE TO WORKMANSHIP OR MATERIAL.

S. WARRANTIES, GUARANTEES, CERTIFICATES, ETC. THAT ARE FURNISHED AND ARE AVAILABLE FOR EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED UNDER THIS SECTION SHALL BE PROPERLY FILLED OUT AS OF THE DATE OF FINAL PAYMENT AND SHALL BE DELIVERED TO THE ENGINEER.

PART 2 – PRODUCTS

2.01 RACEWAY

A. ALL WIRING SHALL BE RUN IN RACEWAY.

B. THE SIZE OF EACH RACEWAY SHALL BE LARGEST OF THE FOLLOWING:

1. UNDERGROUND CONDUITS TO BE 3/4" MINIMUM.

2. THE SIZE REQUIRED BY CODE FILL TABLE FOR THW TO ACCOMMODATE THE NUMBER, SIZE, AND TYPE OF WIRES SHOWN OR SPECIFIED OR RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT SERVED AND ALSO GROUND CONDUCTOR.

C. CONDUIT FITTINGS: EXCEPT WHERE OTHERWISE NOTED, CONDUIT FITTINGS SHALL BE APPLETON, CROUSE-HINDS, OR EQUAL. UNILETS SHALL BE MALLEABLE IRON AND FITTED WITH COVER AND GASKET.

D. CONDUIT SUPPORTS: KINDORF, UNISTRUT, T&B, OR EQUAL. ALL MULTIPLE HANGER AND SUPPORT PARTS SHALL BE ZINC COATED BY HOT DIPPING OR ELECTROPLATING OR OTHERWISE PROTECTED AGAINST CORROSION.

E. CONDUIT STRAPS: T&B, GEDNEY, OR EQUAL, ONE OR TWO HOLE MALLEABLE IRON OR SNAP TYPE STEEL WITH RIBBED BACK, GALVANIZED OR CADMIUM PLATED.

F. ACCEPTABLE RACEWAY SYSTEMS AND THEIR LIMITATIONS OF USE ARE AS FOLLOWS:

1. RIGID STEEL CONDUIT (RSC):

A. STANDARD WEIGHT, ZINC COATED ON OUTSIDE BY HOT DIPPING WITH EITHER ZINC COATED OR OTHER U.L. APPROVED CORROSION RESISTANT COATING ON INSIDE.

B. FITTINGS SHALL BE THREADED AND FINISHED SIMILAR TO CONDUIT. THREADLESS FITTING SHALL NOT BE USED. ALL JOINTS SHALL BE COATED WITH CONDUCTIVE ANTISEIZE COMPOUND, T&B "KOPR-SHIELD" OR APPROVED EQUAL, EXCEPT WHERE CONDUIT IS RUN IN PERMANENTLY DRY LOCATIONS. ENGINEER KNOWS OF NO EQUAL TO "KOPR-SHIELD".

C. WHERE INSTALLED IN CONTACT WITH EARTH OR FILL MATERIAL, CONDUIT SHALL BE WRAPPED WITH NET FOUR (4) LAYERS OF SCOTCHWRAP #50, JOHNS-MANVILLE VID-10, OR EQUAL.

D. CONDUITS CONNECTED TO BOXES AND CABINETS SHALL BE FITTED WITH TWO LOCKNUTS AND INSULATED BUSHINGS, OZ B SERIES, APPLETON BBU SERIES, OR EQUAL, U.L. APPROVED AND BONDED. GROUNDING BUSHINGS SHALL BE USED WHENEVER GROUNDING CONDUCTORS ARE INSTALLED.

E. CONDUIT STUBS SHALL BE CAPPED WITH COUPLING, NIPPLE, COUPLING AND PLUG.

F. CONDUITS CONNECTED TO SIDES AND TOPS OF BOXES, CABINETS, ETC. EXPOSED TO WEATHER OR IN AREAS SUBJECT TO EXCESSIVE MOISTURE SHALL BE FITTED WITH WATERTIGHT SEALING HUBS OF STEEL OR MALLEABLE IRON WITH SEALING RING AND INSULATED THROAT, T&B 370 SERIES, EFCOR 40-50B SERIES, OR EQUAL.

2. ELECTRIC METALLIC TUBING (EMT):

A. ROLLED STEEL, ZINC COATED OUTSIDE WITH EITHER ZINC COATED OR OTHER APPROVED CORROSION-RESISTANT COATING ON THE INSIDE.

B. COUPLINGS SHALL BE RAINTIGHT, COMPRESSION TYPE – APPLETON 95-T SERIES, T&B 5123 SERIES, OR EQUAL.

C. CONNECTORS SHALL BE RAINTIGHT, COMPRESSION TYPE WITH INSULATED THROAT – APPLETON 86-T SERIES, T&B 5123 SERIES, OR EQUAL.

D. MAXIMUM TRADE SIZE, TWO INCHES (2").

E. MAY BE USED:

(1) CONCEALED IN STUD PARTITIONS.
(2) CONCEALED ABOVE FURRED CEILINGS.

3. FLEXIBLE METAL CONDUIT:

A. MINIMUM TRADE SIZE, ONE-HALF INCH (1/2"). FLEXIBLE CONDUIT SHALL BE STEEL.

B. CONNECTORS – T&B "TITE BITE" INSULATED. ENGINEER KNOWS OF NO EQUAL.

C. USE FOR CONNECTION OF DEVICES MOUNTED TO T-BAR CEILINGS AND WHERE RACEWAY IS "FISHED" IN EXISTING WALLS. NOT PERMITTED WHERE EXPOSED TO WEATHER OR OTHER WET OR CORROSIVE CONDITIONS.

D. LENGTH SHALL BE A PRACTICAL MINIMUM BUT TO ALLOW FOR MOVEMENT OF EQUIPMENT CONNECTED WITHOUT RESTRICTING FLEXIBILITY OF CONDUIT.

4. LIQUID TIGHT FLEXIBLE METAL CONDUIT :

A. MINIMUM TRADE SIZE, ONE-HALF INCH (1/2").

B. CONNECTORS – APPLETON STB SERIES THROUGH TWO INCHES (2") TRADE SIZE AND ST SERIES WITH INSULATED BUSHINGS OVER TWO INCHES (2") TRADE SIZE. APPLETON, CROUSE-HINDS, OR EQUAL MAY BE USED.

C. LENGTH SHALL BE A PRACTICAL MINIMUM BUT TO ALLOW FOR MOVEMENT OF EQUIPMENT CONNECTED WITHOUT RESTRICTING FLEXIBILITY OF CONDUIT.

5. PVC CONDUIT, SCHEDULE 40 : U.L. LISTED AND LABELED FOR DIRECT BURIAL.

A. MINIMUM TRADE SIZE, 3/4".

B. A COPPER BONDING CONDUCTOR SHALL BE PULLED IN EACH RACEWAY AND BONDED TO EQUIPMENT AT EACH END WITH APPROVED LUGS.

C. CONTINUATION OF RUN ABOVE GRADE OR SLAB SHALL BE WITH RIGID STEEL.

D. CONDUIT SEPARATION SHALL BE PROVIDED USING PLASTIC CONDUIT SPACERS SPECIFICALLY DESIGNED FOR THE PURPOSE. PLACE SPACERS MAXIMUM OF 4'-0" ON CENTER.

E. BENDS, ELBOWS, AND RISERS SHALL BE MADE WITH RIGID GALVANIZED STEEL CONDUIT USING THREADED ADAPTERS. BOND EACH METALLIC PORTION TO EACH OTHER AND TO EQUIPMENT CONNECTED AT EACH END OF CONDUIT RUN. PROTECT METAL PORTIONS FROM CORROSION AS SPECIFIED FOR RIGID STEEL CONDUIT.

2.02 BOXES

A. PRECAST CONCRETE BOXES

1. BOXES: PRECAST HIGH-DENSITY REINFORCED CONCRETE WITH END AND SIDE KNOCKOUTS AND EXTENSION AS REQUIRED. PROVIDE POURED CONCRETE FOOTING FORMED INSIDE WITH 6" GRAVEL IN BOTTOM OF BOX TO FACILITATE DRAINAGE.

2. COVERS: TRAFFIC RATED STEEL CHECKER PLATE, GALVANIZED, WITH HOLD-DOWN BOLTS. COVERS SHALL BE FACTORY MARKED AS FOLLOWS:

SYSTEM	MARKING
POWER 600 VOLTS OR LESS	ELECTRICAL
CLOCK, SIGNAL, ETC.	SIGNAL

B. GROUND ROD BOXES AT PORTABLE BUILDINGS : PRECAST HIGH-DENSITY REINFORCED CONCRETE, CHRISTY N9 OR EQUAL. LIDS SHALL BE N9T, FACTORY MARKED "GROUND ROD." PROVIDE LID HOLD-DOWN BOLT OPTION FOR VANDAL RESISTANCE.

2.03 CONDUCTORS

A. CONDUCTORS FOR POWER AND SIGNALS SHALL BE IN RACEWAY AND SHALL BE AS FOLLOWS :

1. #10 AWG AND SMALLER SHALL BE SOLID COPPER, 98% CONDUCTIVITY EXCEPT FOR SIGNAL CABLES WHICH MAY BE STRANDED.

2. #8 AWG AND LARGER SHALL BE STRANDED COPPER, 98% CONDUCTIVITY.

3. SIGNAL CIRCUITS SHALL BE AS INDICATED ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURERS.

4. ALL INSULATION SHALL BE THHN/THWN, 600 VOLT RATED MINIMUM EXCEPT FOR SIGNAL CABLE ASSEMBLIES. RACEWAY SIZE SHALL BE BASED UPON N.E.C. FILL TABLES FOR THW.

5. CONDUCTORS SHALL BE COLOR CODED. REFER TO PART 3 OF THIS SECTION.

6. CONDUCTOR MARKERS – T&B VINYL, BRADY PERMASHIELD, OR EQUAL.

B. TERMINATORS:

1. USE LUGS OR SOCKET TYPE TERMINALS FURNISHED WITH EQUIPMENT.

2. FOR #10 AND SMALLER, T&B STA-KON, BUCHANAN "TERMEND", OR EQUAL, SELF-INSULATED FORKED TONGUE LUG.

3. #8 TO #4/0 – SINGLE HEX HEAD SCREW OR BOLT CLAMP TYPE WITH DOUBLE HOLE TONGUE, T&B LOCKTITE, BURNDY QIKLUG TYPE QA, OR EQUAL.

C. SPLICES :

1. #10 AND SMALLER, INCLUDING FIXTURE TAPS – PRE-INSULATED SPRING TYPE CONNECTORS, 3M SCOTCHLOKS, T&B PIGGYS, OR EQUAL.

2. #8 TO #4, SPLIT BOLT SERVICE CONNECTORS, T&B LOCKTITE, BURNDY SERVIT, OR EQUAL, INSULATED WITH SCOTCH #88, OKOWELD FOUR PURPOSE TAPE, OR EQUAL.

3. #2 AND LARGER, BOLTED PRESSURE CONNECTORS, OZ ST, BURNDY OKLIP, OR EQUAL, INSULATED WITH "SCOTCHFILL" AND SCOTCH #88 OR OKOWELD FOUR PURPOSE TAPE.

4. SPLICE SEALING KITS – SCOTCHLOCK SEALING PACKS FOR WIRE SIZE TO #10 AND SCOTCHCAST KITS FOR LARGER SPLICES AS RECOMMENDED BY 3M CO. ENGINEER KNOWS OF NO EQUAL TO SCOTCH KITS.

D. LUBRICANT FOR CONDUCTOR INSTALLATION SHALL BE POWDERED SOAPSTONE, Y-ER EAS, MINERALLIC "PULL-IN" COMPOUND, OR OTHER U.L. APPROVED LUBRICANT

2.04 PANELBOARDS, SWITCHBOARDS, ETC.

A. ALL CIRCUIT BREAKERS OR SWITCHING DEVICES SHALL HAVE FACTORY INSTALLED PADLOCKING MEANS.

B. MULTIPLE POLE CIRCUIT BREAKERS SHALL HAVE INTERNAL COMMON TRIP CONNECTION.

C. MODIFICATIONS TO EXISTING PANELBOARDS OR SWITCHBOARDS SHALL BE AS INDICATED ON THE DRAWINGS. NEW EQUIPMENT SHALL MATCH EXISTING WHERE POSSIBLE AND IN ALL CASES BE COMPATIBLE WITH EXISTING.

D. WHERE NEW CIRCUIT BREAKERS ARE SHOWN TO BE INSTALLED IN EXISTING PANELS, SWITCHBOARDS, ETC. ALL HARDWARE AND TRIM PIECES SHALL BE PROVIDED AS REQUIRED FOR A COMPLETE AND CLOSED INSTALLATION. WHERE PANEL HAS CIRCUIT DIRECTORY, ADD NEW CIRCUIT DIRECTORY AND NEW CIRCUIT DESIGNATIONS TO EXISTING DIRECTORY. AT SWITCHBOARDS, PROVIDE NEW NAMEPLATES.

2.05 TRANSFORMERS

SQUARE D CLASS 7400 OR GENERAL ELECTRIC TYPE QL WITH TAPS AND VOLTAGE AND POWER RATINGS AS SHOWN ON DRAWINGS. VERIFY EXACT LOCATION IN FIELD WITH ARCHITECT. PROVIDE TOTALLY ENCLOSED, NON VENTILATED TRANSFORMERS WITH ENCLOSURES SUITABLE FOR OUTDOOR USE. NON-VENTILATED TRANSFORMERS ABOVE 150KVA SHALL BE SQUARE D, MGM, OR EQUAL.

TAPS: PROVIDE TWO 2-½% FCAN AND 2-½% FCBN TAPS ON TRANSFORMERS UP TO 25KVA AND TWO 2-½% FCAN AND FOUR 2-½% FCBN TAPS ON TRANSFORMERS LARGER THAN 25KVA. AFTER ALL EQUIPMENT ON PROJECT IS CONNECTED AND OPERATIONAL, ADJUST TAP CONNECTIONS TO PROVIDE THE SECONDARY VOLTAGE SPECIFIED.

PART 3 – EXECUTION

3.01 WIRING AND RACEWAY SYSTEMS

A. EXCAVATING AND TRENCHING: PERFORM ALL EXCAVATIONS AS REQUIRED FOR THE INSTALLATION OF THE WORK INCLUDED UNDER THIS SECTION, INCLUDING SHORING OF EARTH BANKS TO PREVENT CAVE-INS AND TO PROTECT WORKMEN AND EQUIPMENT. RESTORE ALL SURFACES, ROADWAYS, WALKS, CURBS, WALLS, EXISTING UNDERGROUND INSTALLATION, ETC., DAMAGED OR CUT AS A RESULT OF THE EXCAVATIONS TO THEIR ORIGINAL CONDITION IN A MANNER APPROVED BY THE ARCHITECT. STOP MACHINE EXCAVATION FOR TRENCHES, IN SOLID GROUND, SEVERAL INCHES ABOVE REQUIRED GRADE LINE, THEN TRIM TRENCH BOTTOM BY HAND TO ACCURATE GRADE SO THAT A FIRM AND UNIFORM BEARING THROUGHOUT ENTIRE LENGTH OF DUCT IS PROVIDED. IN LIEU OF ABOVE HAND EXCAVATION IN BOTTOM OF TRENCH, CONTRACTOR MAY EXCAVATE TO DEPTH NO LESS THAN 6 INCHES BELOW REQUIRED GRADE LINE AND PLACE A BED OF SAND OR GRANULAR SOIL, PROPERLY COMPACTED TO PROVIDE A UNIFORM GRADE AND TO PROVIDE A FIRM SUPPORT FOR DUCT THROUGHOUT ITS ENTIRE LENGTH. MINIMUM CONDUIT DEPTH OF PIPE CROWN SHALL BE 1'-6" BELOW FINISHED OR NATURAL GRADE.

B. BACKFILLING: NO BACKFILLING OPERATIONS SHALL BEGIN UNTIL THE REQUIRED TESTS AND INSPECTION HAS BEEN MADE. SHOULD ANY OF THE WORK BE ENCLOSED OR COVERED UP BEFORE IT HAS BEEN APPROVED, CONTRACTOR SHALL, AT HIS EXPENSE, UNCOVER THE WORK. AFTER IT HAS BEEN INSPECTED, TESTED, AND APPROVED, HE SHALL MAKE ALL REPAIRS NECESSARY TO RESTORE THE WORK OF OTHER CONTRACTORS TO THE CONDITION IN WHICH IT WAS FOUND AT THE TIME OF UNCOVERING. EXCEPT UNDER EXISTING PAVED AREA, WALKS, ROADS, OR SIMILAR SURFACES, AND IN CASES WHERE ROCK IS ENCOUNTERED, BACKFILL MORE THAN 12" ABOVE THE TOP OF THE PIPE SHALL BE MADE USING SUITABLE EXCAVATED MATERIAL PLACED IN 6" LAYERS MEASURED BEFORE COMPACTION, AND TAMPED EITHER BY HAND OR MACHINE. ENTIRE BACKFILL FOR EXCAVATIONS UNDER EXISTING PAVEMENT, WALKS, ROADS, OR SIMILAR SURFACES, SHALL BE MADE WITH CLEAN SAND COMPACTED BY FLOODING. SURFACE WORK SHALL BE REPLACED TO MATCH THE EXISTING.

C. TESTS: TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE ANY EQUIPMENT IS CONNECTED, AND WHERE SUCH TESTS INDICATE FAULTY INSULATION OR OTHER DEFECTS, THEY SHALL BE LOCATED, REPAIRED, AND RETESTED AT THE CONTRACTOR'S EXPENSE.

D. GROUNDING AND BONDING: GROUNDING AND BONDING SHALL BE INSTALLED AS REQUIRED BY THE APPLICABLE CODES, RULES, AND REGULATIONS, AND AS FOLLOWS:

1. EACH PORTABLE BUILDING SHALL BE PROVIDED WITH ITS OWN GROUNDING ELECTRODE IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. GROUND RESISTANCE TESTS SHALL BE MADE AND FORWARDED TO THE ARCHITECT FOR APPROVAL AND TO DSA FOR RECORD.

2. ALL GROUNDING ELECTRODES ON PROJECT SHALL BE TESTED FOR GROUND RESISTANCE.

3. GROUND TESTS SHALL BE MADE USING MEGGER EARTH TESTER AND SHALL BE PERFORMED BY AN AGENCY NORMALLY ENGAGED IN TESTING GROUND SYSTEMS. CONTRACTOR SHALL SUBMIT NAME, ADDRESS AND PHONE NUMBER OF FIRM PROPOSED FOR GROUND TESTING.

4. ALL RACEWAY SYSTEMS, SUPPORTS, CABINETS, PANELBOARDS, ETC., SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED.

5. WHERE THE RACEWAY IS USED AS THE GROUNDING CONDUCTOR, GOOD CONTACT SHALL BE MADE BETWEEN CONDUIT OR TUBING AND PANELS, CABINETS, ETC., TO MAINTAIN CONTINUITY OF GROUND. WHERE IT IS NOT POSSIBLE TO OBTAIN GOOD CONTACT, ADDITIONAL BONDING SHALL BE PROVIDED. SUPPLEMENTAL BONDING SHALL BE PROVIDED BETWEEN RACEWAY AND ENCLOSURE AND AT CONDUIT KNOCKOUTS AND AT REDUCING WASHERS.

6. ALL NON-METALLIC RACEWAYS SHALL CONTAIN A CODE SIZE COPPER CONDUCTOR, GREEN INSULATED, PROPERLY BONDED TO EQUIPMENT AT EITHER END, AND TO METALLIC PORTIONS OF THE SAME RACEWAY.

7. PROVIDE BONDING JUMPER AROUND FLEXIBLE METALLIC CONDUIT. BONDING JUMPER SHALL BE INSIDE FLEX.

8. RACEWAY SIZE SHALL BE INCREASED IF NECESSARY TO ACCOMMODATE BONDING OR GROUNDING CONDUCTORS AND SHALL BE BASED ON RACEWAY FILL TABLES.

9. WHERE CABINETS ARE FURNISHED WITH GROUNDING BUS, ALL REQUIRED BONDING CONDUCTORS SHALL CONNECT THERETO, EACH WITH SEPARATE LUG.

3.02 RACEWAY SYSTEMS

A. IN FINISHED ROOMS AND SPACES, CONDUIT SHALL BE RUN CONCEALED. FISH FLEX IN WALLS AND USE "CUT-IN" BOXES AT OUTLETS. WHERE EXISTING CONSTRUCTION PHYSICALLY MAKES CONCEALED RUNS "IMPOSSIBLE", USE SURFACE WIREMOLD RACEWAY (METAL) HAVING FILL AREA EQUAL OR GREATER TO CONDUIT SPECIFIED. EXPOSED RACEWAY ROUTING MUST BE COORDINATED WITH AND APPROVED BY ARCHITECT PRIOR TO ROUGH-IN. PAINT SURFACE RACEWAY WITH TWO COATS OF ENAMEL, COLOR TO MATCH SURFACE TO WHICH MOUNTED.

B. WHERE TWO OR MORE HORIZONTAL RACEWAYS RUN PARALLEL, THEY SHALL BE SUPPORTED ON MULTIPLE SUPPORTS. EACH RACEWAY SHALL BE SECURED TO THE SUPPORT MEMBER WITH A U-BOLT, STRAP, OR OTHER SPECIALLY DESIGNED AND APPROVED BOLTED FASTENER.

DAVID O. SCHLUETER — REGISTERED PROFESSIONAL ENGINEER — No. 2569 — STRUCTURAL — STATE OF CALIFORNIA

CHARLES A. MARTIN & ASSOC.
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REGISTERED PROFESSIONAL ENGINEER — CHARLES A MARTIN — NO. E 2186 — ELECTRICAL — STATE OF CALIFORNIA
JOB # 2751 EXP. 6/30/98

COMPLETE PLAN SUBMITTAL

BECKMAN ELEM SCHOOL – 1996/97 PORTABLES
201 SCARBOROUGH DR., LODI, CA 95240

SCALE: NONE	APPROVED BY:	DRAWN BY JRJ
DATE: 5 FEB 97		REVISED

Lodi Unified School District
Facility Planning Department
1305 E. Vine St., Lodi, CA 95240

DRAWING NUMBER ES–1

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects

R221551X01

LICENSED ARCHITECT — JEFFREY ALAN GRAU — C-14648 — 5/31/25 RENEWAL DATE — STATE OF CALIFORNIA

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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ELECTRICAL SPECS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 CLIENT PROJ NO: R221551X01

SHEET:
ES-1

PLEASE RECYCLE

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C. MULTIPLE CONDUIT SUPPORTS SHALL CONSIST OF A STEEL CHANNEL MEMBER, AND ALL U-BOLTS, CLAMPS, AND OTHER ATTACHMENTS NECESSARY. CHANNEL MEMBERS SHALL BE STANDARD STRUCTURAL STEEL SHAPES SUCH AS ANGLES OR CHANNELS OR 1-1/2" x 1-1/2", NO. 12 GAUGE, COLD FORMED, LIPPED CHANNELS DESIGNED TO ACCEPT SPECIAL SPRING-HELD HARDENED STEEL NUTS FOR SECURING HANGER RODS AND OTHER ATTACHMENTS.

D. PERFORATED STRAP IRON OR NAIL STRAPS SHALL NOT BE USED. STRAPS SHALL BE SCREW FASTENED.

E. IN ANY RACEWAY RUN, THE NUMBER OF 1/4 BENDS, OR THE EQUIVALENT, BETWEEN TERMINATIONS AT CABINETS, OUTLET BOXES, JUNCTION BOXES, AND PULLBOXES, SHALL NOT EXCEED THE NUMBER OF 1/4 BENDS INDICATED BELOW, AND THE TOTAL LENGTH OF RUN SHALL NOT EXCEED 150 FEET. STRAIGHT RUNS OF CONDUIT SHALL NOT EXCEED 250 FEET IN LENGTH BETWEEN TERMINATIONS AT CABINETS, OUTLET BOXES, JUNCTION BOXES, AND PULLBOXES.

CONDUIT SIZE – INCHES	NUMBER OF 1/4 BENDS
1/2 TO 1-1/4	4
1-1/2 TO 2-1/2	3
3 TO 4	2

F. THE SIZE OF EACH RUN OF RACEWAY SHALL BE LARGEST OF THE FOLLOWING:

1. THE SIZE NOTED ON THE DRAWINGS.
2. THE SIZE REQUIRED BY CODES TO ACCOMMODATE THE NUMBER, SIZE, AND TYPE OF WIRES SHOWN OR SPECIFIED.

G. THE CONTRACTOR'S ATTENTION IS DIRECTED TO CHECK THE SIZE OF ALL RACEWAYS TO DETERMINE THAT THE GREEN EQUIPMENT GROUND CONDUCTOR, SPECIFIED, SHOWN OR REQUIRED, CAN BE INSTALLED IN THE SAME RACEWAY WITH PHASE AND NEUTRAL CONDUCTORS IN ACCORDANCE WITH THE PERCENTAGE OF FILL REQUIREMENTS OF CODES. IF NECESSARY, THE CONTRACTOR SHALL INCREASE THE RACEWAY SIZES SHOWN OR SPECIFIED TO ACCOMMODATE ALL CONDUCTORS WITHOUT ADDITIONAL COST TO THE OWNER.

H. FLASH AND COUNTERFLASH ALL ROOF PENETRATIONS. PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WATERTIGHT.

I. CONDUIT CAPS SHALL BE INSTALLED DURING CONSTRUCTION.

J. UNDERGROUND CONDUIT BENDS SHALL HAVE A MINIMUM RADIUS OF TWELVE TIMES THE CONDUIT TRADE SIZES.

K. PULL WIRES SHALL BE PROVIDED IN ALL EMPTY CONDUITS AND SHALL BE #12 TW IN CONDUITS 1" AND SMALLER, AND 3/16" POLYPROPYLENE ROPE IN CONDUITS 1-1/4" AND LARGER.

L. CONDUIT LOCATION MARKER: ALL UNDERGROUND STUBS SHALL BE IDENTIFIED WITH CAPPED CONDUIT STAKE AT END OF STUB. PROVIDE STAKE CAP WITH NONCORROSIVE TAG IDENTIFYING SOURCE OF STUB. SET STAKE 1 FOOT ABOVE FINAL FINISHED GRADE BEFORE BACKFILL OF TRENCH. AT COMPLETION OF JOB AND AFTER OWNER HAS BEEN SHOWN LOCATION OF STAKES, DRIVE STAKES FLUSH WITH GRADE. ALL CONDUIT STUBS SHALL EXTEND 5 FEET BEYOND SIDEWALKS OR CONCRETE CURBS, FOOTINGS, ETC.

M. PLASTIC CONDUIT EXPANSION AND CONTRACTION: CONTRACTOR SHALL TAKE PRECAUTIONS TO ALLOW FOR EXPANSION AND CONTRACTION OF PLASTIC CONDUIT DUE TO TEMPERATURE CHANGES. EXERCISE CARE IN STORING MATERIALS TO AVOID WARPING AND DETERIORATION. PROTECT FROM DIRECT EXPOSURE TO SUNLIGHT.

3.03 CONDUCTORS

A. PHASING: TERMINALS IN PANELBOARDS AND OTHER EQUIPMENT SHALL BE PHASED A, B, C, READING LEFT TO RIGHT OR TOP TO BOTTOM LOOKING INTO THE FRONT OF THE EQUIPMENT.

B. CONDUCTORS SHALL BE CODED AS FOLLOWS:

VOLTAGE	PHASE A	PHASE B	PHASE C	NEUTRAL	GROUND
120/208V	BLACK	RED	BLUE	WHITE	GREEN
480Y/277V	BROWN	ORANGE	YELLOW	GRAY	GREEN

CONDUCTORS IN SIZES UP THROUGH #10 AWG SHALL HAVE SOLID COLOR FINISH AS LISTED ABOVE. #8 AWG AND LARGER SHALL BE CODED BY APPLICATION OF PHASE TAPE FOR MINIMUM OF 6" LENGTH ON CONDUCTOR. CODING SHALL OCCUR AT ALL SPLICES, TERMINATIONS, AND PULL BOXES.

COLOR CODING SHALL BE CONTINUOUS AND CONSISTENT THROUGHOUT THE WORK.

C. CIRCUIT IDENTIFICATION: EACH BRANCH CIRCUIT, CONTROL, AND SIGNAL CONDUCTOR SHALL BE LABELED WITH THE CIRCUIT NUMBER OR TERMINAL IT IS CONNECTED TO. USE T&B VINYL, BRADY PERMASHIELD MYLAR MARKERS, OR EQUAL. CONDUCTORS SHALL BE LABELED AT EACH PANELBOARD, SWITCHBOARD, TERMINAL CABINET, PULL-BOX, AND AT EACH POINT OF UTILIZATION SUCH AS HANDSETS, CLOCKS, SPEAKERS, ETC. LABELING SHALL CORRESPOND TO DIAGRAMS WHERE APPLICABLE.

D. CONNECTIONS TO TERMINALS SHALL BE AS FOLLOWS: REFER TO 2.03B OF THIS SECTION.

E. SPLICES:

1. REFER TO 2.03C OF THIS SECTION.
2. SPLICES IN UNDERGROUND PULLBOXES OR IN OTHER AREAS SUBJECT TO MOISTURE SHALL BE PROVIDED WITH CAST RESIN KITS. USE SCOTCHLOK SEALING PACKS FOR WIRE SIZE TO #10 AND SCOTCHCAST KITS FOR LARGER SPLICES AS RECOMMENDED BY 3M CO. ALL SPLICES TO BE PREPARED AS HEREINBEFORE SPECIFIED BEFORE RESIN KITS ARE APPLIED. ENGINEER KNOWS OF NO EQUAL TO SCOTCH KITS.
3. WIRE SPLICING DEVICES SHALL BE SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATION.

F. CONDUCTORS IN PANELS, ETC., SHALL BE LACED WITH T&B TY-RAPS, DENNISON "BAR-LOKS", OR EQUAL.

3.04 EQUIPMENT AND MATERIALS

A. GENERAL REQUIREMENTS FOR PANELBOARDS, TERMINAL CABINETS, ETC.

1. CONDUCTORS SHALL BE NEATLY LACED WITH T&B TY-RAPS, DENNISON "BAR-LOKS", OR EQUAL.
2. CONDUITS SHALL ENTER CABINET THROUGH NEAT HOLE AND PERPENDICULAR TO ENTRANCE FACE.
3. CONDUITS SHALL BE FITTED WITH INSULATED GROUNDING BUSHING AND BONDED TO GROUND BUS.

SIGNAL SYSTEMS

PART 1 – GENERAL

1.01 GENERAL CONDITIONS

A. GENERAL CONDITIONS AND REQUIREMENTS OF DIVISION 1 AND SECTION "ELECTRICAL WORK – GENERAL" APPLY TO WORK HEREUNDER.

B. FURNISH AND INSTALL ADDITIONS TO EXISTING INTERCOM, CLOCK, AND FIRE ALARM SYSTEMS, INCLUDING ALL WIRING AND CONNECTIONS AND OTHER MATERIALS AS SHOWN ON PLANS, AND SPECIFIED HEREIN. IT IS THE INTENT THAT NEW ADDITIONS WILL FUNCTION WITH EXISTING SYSTEMS COMPLETELY AND THAT ALL WORK AND MATERIALS REQUIRED TO ACHIEVE THIS END SHALL BE FURNISED. ANY CLASSROOM SELECTOR PANELS, SPLITTERS, POWER SUPPLIES, BATTERIES, CHARGERS, AMPLIFIERS, ZONE MODULES, SIGNAL MODULES, SIGNAL CARDS OR PROGRAMMING SHALL BE PROVIDED AT HEAD END EQUIPMENT AS REQUIRED TO PLACE NEW DEVICES INTO OPERATION.

1.02 GENERAL REQUIREMENTS

A. PERMITS AND LICENSES: COMPLY WITH ALL CODES, ORDINANCES, AND AUTHORITIES HAVING JURISDICTION, INCLUDING THE CALIFORNIA BUILDING CODE, THE CALIFORNIA ELECTRICAL CODE, THE AMERICANS WITH DISABILITIES ACT AND THE CALIFORNIA FIRE CODE.

FIRE SYSTEM CONTRACTORS SHALL POSSESS A VALID C10 CALIFORNIA ELECTRICAL CONTRACTORS LICENSE. ONLY CONTRACTORS HOLDING A VALID LICENSE SHALL PERFORM ANY FIRE ALARM WORK.

B. SPECIFICATION AND CONTRACT DRAWINGS: ACCURACY OF DATA GIVEN HEREIN AND ON DRAWINGS ARE AS EXACT AS POSSIBLE, BUT THEIR EXTREME ACCURACY IS NOT GUARANTEED. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR AND THE CONTRACTOR SHALL ACCEPT SAME WITH THIS UNDERSTANDING.

1. NO WORK SHALL COMMENCE UNTIL THE SUBMITTAL PLANS HAVE BEEN APPROVED BY ARCHITECT. SHOULD THE CONTRACTOR PROCEED WITH WORK WITHOUT RECEIVING THIS APPROVAL, HE DOES SO ON HIS OWN RESPONSIBILITY, AND SHALL ALTER WORK, IF DIRECTED, AT HIS OWN COST.
2. WHEN THE CONTRACTOR PROCEEDS WITHOUT COORDINATION AND APPROVAL, THEN ALL DRAWINGS AND SPECIFICATIONS MAY BE SUPERSEDED BY LATER DETAILED SPECIFICATIONS AND DRAWINGS PREPARED BY THE OWNER, AND THE CONTRACTOR SHALL CONFORM TO THEM AND TO SUCH CHANGES AS MAY BE CALLED FOR BY THOSE REVISIONS WITHOUT EXTRA COST TO THE OWNER. WHERE WORK CALLED FOR EXCEEDS CODE REQUIREMENTS, THE DRAWINGS AND SPECIFICATIONS SHALL TAKE PRECEDENCE.
3. LAYOUTS OF EQUIPMENT, ACCESSORIES, AND WIRING SYSTEMS ARE DIAGRAMMATIC (NOT PICTORIAL), BUT SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. SITE SHALL BE EXAMINED, NOTING ALL CONDITIONS THAT MAY AFFECT THIS WORK. REPORT CONFLICTING CONDITIONS TO THE OWNER FOR ADJUSTMENT BEFORE PRECEEDING WITH WITH WORK.

C. SUBMITTALS: FURNISH CATALOG DATA, SHOP DRAWINGS, ONE-LINE DIAGRAMS, AND SCALED PLAN DRAWINGS. BUILDING PLANS SHALL BE 1/8" = 1'-0", AND SITE PLANS SHALL BE NO SMALLER THAN 1" = 40'. MINIMUM TEXT HEIGHT SHALL BE 3/32" HIGH. CONTRACTOR SHALL ALSO SUMBIT NAME OF FIRM HE PROPOSES TO DO WORK UNDER THIS SECTION, ADDRESSES, PHONE NUMBERS, AND NAME OF FIRMS CONTACT FOR APPROVAL. FIRE ALARM SUBMITTAL SHALL ALSO INCLUDE CONTRACTOR'S C-10 LICENSE NUMBER. SUCH FIRMS SHALL BE FACTORY AUTHORIZED REPRESENTATIVES OF THE EQUIPMENT SPECIFIED, WHO SHALL FURNISH ALL EQUIPMENT, MAKE ALL CONNECTIONS TO SAME, AND PLACE THE SYSTEMS IN OPERATION. SUCH FIRMS SHALL HAVE OFFICES AND SERVICE DEPARTMENTS WITHIN A 100 MILE RADIUS OF PROJECT AND SHALL HAVE BEEN IN BUSINESS OF THIS TYPE FOR AT LEAST FIVE YEARS. ALSO, REFER TO REQUIREMENT FOR SHOP DRAWINGS, SUBSTITUTIONS, MATERIALS, AND SUBMITTALS IN SECTION "ELECTRICAL WORK – GENERAL REQUIREMENTS".

1. FIRE ALARM SYSTEM DESIGN AND PRODUCTS HAVE BEEN REVIEWED AND APPROVED BY DSA. ALTERATIONS TO DESIGN AND/OR SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL REQUIRE THE FOLLOWING TO BE INCLUDED WITH THE FIRE ALARM SUBMITTAL:

a. RISER DIAGRAM.

b. POINT-TO-POINT DIAGRAM.

c. MOUNTING DETAIL SHOWING ELEVATIONS OF WALL MOUNTED DEVICES.

d. LIST OF SYSTEM COMPONENTS, EQUIPMENT, AND DEVICES, INCLUDING MANUFACTURER'S MODEL NUMBER(S) AND OF CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS.

e. COPIES OF MANUFACTURER'S SPECIFICATION SHEETS FOR EQUIPMENT AND DEVICES INDICATED AND COPIES OF STATE FIRE MARSHALL LISTING SHEETS.

f. VOLTAGE DROP CALCULATIONS –– INCLUDE THE FOLLOWING INFORMATION FOR THE WORST CASE:

1) POINT-TO-POINT OR OHMS LAW CALCULATIONS.

2) ZONE USED IN CALCULATIONS.

3) VOLTAGE DROP PERCENT [NOT TO EXCEED MANUFACTURER'S REQUIREMENTS]. NOTE: IF VOLTAGE DROP EXCEEDS 10%, INDICATE MANUFACTURER'S LISTED OPERATION VOLTAGE RANGE(S) FOR EQUIPMENT AND DEVICES.

g. BATTERY TYPE(S), AMP HOURS, AND LOAD CALCULATIONS –– INCLUDE THE FOLLOWING INFORMATION:

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 POWER CONDITION –– I.E.:

a) ZONE MODULES.
b) DETECTORS.
c) OTHER DEVICES [IDENTIFY].

2) ALARM CONDITION: 100% OF APPLICABLE DEVICES FOR 5-MINUTES = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING ALARM CONDITION –– I.E.:

a) ZONE MODULES.
b) SIGNAL MODULES.
c) DETECTORS.
d) SIGNAL DEVICES.
e) ANNUNCIATOR.
f) OTHER DEVICES [IDENTIFY].

3) NORMAL OPERATION + ALARM CONDITION:

a) TOTAL AMP HOURS REQUIRED.
b) TOTAL AMP HOURS PROVIDED.

D. FIRE ALARM CERTIFICATION: WRITTEN CERTIFICATION BY CONTRACTOR SHALL BE SUBMITTED TO ARCHITECT STATING FOR HIMSELF AND THE EQUIPMENT MANUFACTURER THAT COMPONENT PARTS ARE AS LISTED AND APPROVED BY STATE FIRE MARSHAL, THAT THE INSTALLATION CONFORMS IN ALL RESPECTS TO REQUIREMENTS SET FORTH IN THE CAIFONRIA ELECTRICAL CODE AND NFPA 72, THAT ACCEPTANCE TESTING HAS BEEN PERFORMED IN THE PRESENCE OF INSPECTOR OF RECORD (IOR), AND THE CERTIFICATE (FOUND IN NFPA 72) HAS BEEN SIGNED BY THE IOR.

E. INSTALLATION OF THE FIRE ALARM SYSTEM EQUIPMENT SHALL NOT BE STARTED UNTIL CONTRACTOR'S SUBMITTAL HAS BEEN APPROVED BY THE ARCHITECT.

F. RECORD DRAWINGS: REFER TO GENERAL CONDITIONS. FINAL INSPECTION WILL NOT BE MADE UNTIL DRAWINGS ARE RECEIVED AND APPROVED. RECORD DRAWINGS SHALL INCLUDE "AS-BUILT" ONE-LINE AND WIRING DIAGRAMS, WITH TERMINATIONS IDENTIFIED, WIRE COLOR CODING SCHEDULE, PULLBOX LOCATIONS, AND CONDUIT ROUTING PLANS.

G. GUARANTEE:

1. ONE FIRM TO ASSUME FULL RESPONSIBILITY FOR PERFORMANCE ON ALL WORK OF THIS SECTION. GUARANTEE ALL EQUIPMENT AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR ONE YEAR, AND PROVIDE ON-THE-PREMISES SERVICE DURING NORMAL WORKING HOURS FOR ONE YEAR, AT NO COST TO PURCHASER IF TROUBLE IS NOT CAUSED BY MISUSE, ABUSE, OR ACCIDENT, OR AT CURRENT LABOR RATES IF SO CAUSED.
2. SERVICE SHALL NORMALLY BE AVAILABLE WITHIN 24 HOURS FROM SERVICE DEPARTMENT OF AUTHORIZED DISTRIBUTOR OF MANUFACTURER BY FACTORY TRAINED SERVICEMEN..
3. ON-THE-PREMISES SERVICE AT OTHER THAN NORMAL WORKING HOURS TO ALSO BE AVAILABLE, BUT LABOR CHARGES FOR SUCH CALLS TO BE PAID BY PURCHASER AT CURRENT LABOR RATES.

PART 2 – PRODUCTS

2.01 FIRE ALARM

A. ACTIVATION OF ANY MANUAL STATION OR AUTOMATIC DETECTOR SHALL CAUSE THE SOUNDING OF OF ALL SIGNALS.

THE SYSTEM SHALL BE ELECTRICALLY SUPERVISED AGAINST OPEN CIRCUITS AND GROUNDS ON THE WIRING TO THE ALARM-INITIATING DEVICES. AN OPEN OR GROUND IN THE SYSTEM SHALL CAUSE A TROUBLE SIGNAL TO SOUND CONTINUOUSLY UNTIL THE SYSTEM IS RESTORED TO NORMAL OR UNTIL THE SIGNAL IS SILENCED BY MEANS OF A CUT-OFF SWITCH.

B. EQUIPMENT AND ACCESSORIES FURNISHED UNDER THE TERMS OF THESE SPECIFICATIONS SHALL BE AS SPECIFIED BELOW (REFER TO 1.02, C.1. FOR SUBSTITUTIONS). ALL EQUIPMENT SHALL BE LISTED BY U.L. AND STATE FIRE MARSHAL.

C. MANUAL ALARM-INITIATING DEVICES SHALL BE FOR SEMI-FLUSH MOUNTING, SINGLE ACTION, BREAKGLASS TYPE, OPEN CIRCUIT MANUAL STATIONS LOCATED AS SHOWN ON PLANS. SIMPLEX 2099-9754.

D. MINI-HORNS SHALL BE FLUSH MOUNTED AND SHALL HAVE RED FINISH PLATE. SIMPLEX 2091-9836 (GENTEX GX-90-4-WR).

E. HEAT DETECTORS AT CEILINGS SHALL BE 135°F FIXED TEMP/RATE-OF-RISE TYPE. SIMPLEX 2098-9439.

F. HEAT DETECTORS ABOVE CEILINGS SHALL BE RATE ANTICIPATION TYPE, 194°F. FIRELITE (THERMOTECH) 302-194 WITH AP-P ADAPTER PLATE.

G. REMOTE POWER EXTENDER PANEL SHALL BE SIMPLEX 4009-9001. PROVIDE WITH 4.0AH BATTERIES.

2.03 EXISTING INTERCOM AND CLOCK

A. NEW DEVICES ADDED TO EXISTING SYSTEMS SHALL MATCH EXISTING DEVICES AT RESPECTIVE SITE IF POSSIBLE, BUT IN ANY CASE, SHALL BE COMPATIBLE WITH EXISTING SYSTEM.

B. ALL FUNCTIONS PERFORMED BY EXISTING SYSTEMS SHALL BE EXTENDED TO NEW PORTABLE CLASSROOMS.

PART 3 – EXECUTION

3.01 INSTALLATION REQUIREMENTS

A. ELECTRICAL CONTRACTOR SHALL RETAIN THE SERVICES OF THE DULY APPOINTED FACTORY REPRESENTATIVE AS SPECIFIED HEREINBEFORE, WHO SHALL FURNISH ALL EQUIPMENT, MAKE ALL CONNECTIONS TO SAME, AND PLACE SYSTEM IN OPERATION. TECHNICIAN AND WORKMAN EMPLOYED SHALL BE PARTICULARLY SKILLED IN THIS TYPE OF WORK AND SHALL BE THOROUGHLY FAMILIAR WITH THE SYSTEMS AND EQUIPMENT INVOLVED. THERE WILL BE NO EXCEPTIONS TO THIS REQUIREMENT.

B. ALL WIRING SHALL BE INSTALLED IN CONFORMANCE WITH INDUSTRY STANDARD PRACTICE. EACH EQUIPMENT CABINET SHALL BE PROVIDED WITH TERMINATIONS AS FOLLOWS:

1. CLOCK AND FIRE ALARM CIRCUITS SHALL BE TERMINATED AT SCREW TERMINALS. TERMINAL BLOCKS SHALL BE ALLEN-BRADLEY BULLETIN 1492 WITH 600 VOLT SCREW TERMINALS FOR #22 TO #10 CONDUCTORS, MOUNTED TO TYPE N22 CHANNEL, OR APPROVED EQUAL.
2. COMMUNICATIONS SIGNAL SYSTEM CONDUCTORS SHALL BE TERMINATED ON WIRE SLOT TERMINALS. TERMINAL BLOCKS SHALL BE AMP MODULAR BLOCK ASSEMBLY WITH MOUNTING BASE, OR APPROVED EQUAL.

C. ALL CABLES IN TERMINAL CABINETS SHALL BE TERMINATED ON TERMINAL BLOCKS AND IDENTIFIED, INCLUDING SPARES. ALL AUDIO CABLES SHALL BE RUN THROUGH FANNING STRIP TO TERMINALS OF TERMINAL BLOCKS.

D. ALL CABLES WITHIN TERMINAL CABINETS SHALL BE BOUND WITH LACING CORD OR PLASTIC TIES SO THAT CABLES ARE IN TIGHT CONTACT FOR THEIR ENTIRE LENGTH.

E. ALL AUDIO CIRCUIT WIRING EXTERNAL TO EQUIPMENT CABINETS SHALL BE OF TYPE OF CABLE THAT WILL ALLOW SHIELDS TO BE INSULATED FROM GROUND AND AUDIO CIRCUITS. SHIELDS SHALL BE GROUNDED AT POINT OF LOWEST AUDIO LEVEL ONLY AND SHALL BE FREE OF ANY OTHER GROUND FOR THEIR ENTIRE LENGTH. WHERE TWO (2) CABLES JOIN OR CONNECT TOGETHER ON TERMINAL STRIP, SHIELDS SHALL BE INSULATED FROM ALL OTHER CONDUCTORS AND CONNECTED TOGETHER IN MANNER SIMILAR TO CABLE CONDUCTORS.

F. ALL CABLES ENTERING TERMINAL CABINET SHALL BE IDENTIFIED WITH PANDUIT SSM4S-C OR PLF/MA-C MARKER TIE FLAGS. UPON COMPLETION OF INSTALLATION, SIX (6) COPIES OF ONE-LINE "AS-BUILT" WIRING DIAGRAM SHALL BE FURNISHED TO ARCHITECT.

G. EACH CABLE RUN ON WIRING DIAGRAM SHALL BE IDENTIFIED WITH EXACT WIRE MARKER CODE (NUMERICAL OR ALPHABETICAL) AS APPEARS IN TERMINAL CABINETS.

H. STATION LOCATIONS SHALL BE IDENTIFIED BY ROOM NUMBERS.

I. COLOR CODE CLOCK AND FIRE ALARM WIRING TO MATCH EXISTING COLOR SCHEMES.

J. NO SPLICES SHALL OCCUR IN UNDERGROUND PULLBOXES. SIGNAL SYSTEM WIRING SHALL BE CONTINUOUS, WITHOUT SPLICES, FROM TERMINAL CABINET TO TERMINAL CABINET AND TERMINAL CABINET TO DEVICES.

K. WHERE NEW CONDUCTORS ARE INDICATED TO BE PLACED IN THE SAME CONDUIT WITH EXISTING CONDUCTORS, THE FOLLOWING SHALL OCCUR:

1. PULL OUT THE EXISTING CONDUCTORS, DISCARDING ANY WITH DEFECTS SUCH AS BROKEN INSULATION, ETC.
2. PULL IN THE CONDUCTORS BEING REUSED, REPLACEMENT CONDUCTORS AND NEW CONDUCTORS. ALL CONDUCTORS REQUIRED TO BE PULLED IN A CONDUIT SHALL BE INSTALLED AT THE SAME TIME.
3. INSTALLING NEW CONDUCTORS ON TOP OF EXISTING CONDUTORS IS PROHIBITED.

3.02 TESTS

A. AFTER ALL EQUIPMENT SPECIFIED HEREIN HAS BEEN INSTALLED AND IS IN OPERATING CONDITION, PERFORMANCE TESTS SHALL BE CONDUCTED TO VERIFY THAT INSTALLATION AND COMPONENTS COMPLY WITH THE OWNER AND SHALL OCCUR AFTER RECEIPT BY ARCHITECT OF CONTRACTOR'S WRITTEN CERTIFICATION OF COMPLETION, RECORD ONE-LINE DIAGRAM, WIRING DIAGRAMS, MAINTENANCE AND OPERATION MANUALS, AND OTHER "AS-BUILT" DATA REQUIRED BY THESE SPECIFICATIONS.

B. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT AND AFTER SATISFACTORY PERFORMANCE TESTS HAVE BEEN CONDUCTED, A SATISFACTORY DEMONSTRATION OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE INSPECTOR OF RECORD. CONTRACTOR SHALL COORDINATE WITH INSPECTOR OF RECORD AND SCHOOL. DEMONSTRATION SHALL BE COMPLETED PRIOR TO OCCUPANCY BY SCHOOL.

REGISTERED PROFESSIONAL ENGINEER
DAVID O. SCHLUETER
3-31-00
No. 2569
STRUCTURAL
STATE OF CALIFORNIA

AC ___ FLS ___ SS ___
DATE 5/20/97

CHARLES A. MARTIN & ASSOC.
CONSULTING ENGINEERS
SACRAMENTO CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER
CHARLES A MARTIN
NO. E 2186
ELECTRICAL
STATE OF CALIFORNIA
JOB # 2751 EXP. 6/30/98

COMPLETE PLAN SUBMITTAL

BECKMAN ELEM SCHOOL – 1996/97 PORTABLES 201 SCARBOROUGH DR., LODI, CA 95240		
SCALE: NONE	APPROVED BY:	DRAWN BY: JRJ
DATE: 5 FEB 97		REVISED
Lodi Unified School District Facility Planning Department 1305 E. Vine St., Lodi, CA 95240		DRAWING NUMBER ES-2

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects

R221551X01

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ELECTRICAL SPECS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23

CLIENT PROJ NO: R221551X01

SHEET:

ES-2

PLEASE RECYCLE

Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
10/26/2023 1:32:08 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

ENVIROPLEX, INC.

STEEL ORDINARY MOMENT RESISTING FRAME
MODULAR BUILDING
12'x40' RESTROOM (480 S.F.)

LODI USD - VICTOR ES
SERIAL #: 25303

TEST & INSPECTION GUIDELINE

TYPE OF MODULAR STEEL MOMENT FRAME BUILDING PROJECT
(X–INDICATES TEST OR INSPECTION TO BE DONE)

TEST and INSPECTIONS (as listed on Form DSA 103-19)

MATERIAL TYPE		DSA 103 ITEM #	DESCRIPTION	STOCKPILE: WOOD FLOOR ONLY (see note 5)	STOCKPILE: CONCRETE FLOORS	CONSTRUCTION OF (diaphragm material–foundation material): PLYWOOD FLOOR ONLY -WOOD FOUNDATION (see note 5)	CONSTRUCTION OF: PLYWOOD FLOOR - CONCRETE FOUNDATION	CONSTRUCTION OF: CONCRETE FLOOR - CONCRETE FOUNDATION	RELOCATION OF CERTIFIED BUILDING: WOOD FOUNDATION (see note 5)	RELOCATION OF CERTIFIED BUILDING: CONCRETE FOUNDATION
SOILS	GENERAL see note 4	1a	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.				X	X		X
	COMPACTED FILLS see note 4	2a	Perform classification and testing of fill materials.				X	X		X
		2b	Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.				X	X		X
		2c	Compaction testing.				X	X		X
		6a	Soil improvements				X	X		X
		6b	Inspection of soil improvements				X	X		X
CONCRETE	CONCRETE FILLED DECK	7a	Verify use of required design mix.		X			X		
		7b	Identifiy, sample, and test reinforcing steel. See Note 1 for waiver.		X			X		
		7c	During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.		X			X		
		7d	Test concrete (f'c).		X			X		
		7e	Batch plant inspection - continuous. See Note 7 for waiver.		X			X		
		12	Inspect placement of concrete, reinforcing and embedded items in elevated floor - by RBIP.		X			X		
	FOUNDATION	7a	Verify use of required design mix.				X	X		X
		7b	Identifiy, sample, and test reinforcing steel. See Note 1 for waiver.				X	X		X
		7c	During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.				X	X		X
		7d	Test concrete (f'c).				X	X		X
		7e	Batch plant inspection - continuous. See Note 7 for waiver.				X	X		X
STRUCTURAL STEEL	VERIFICATION OF MATERIALS, EQUIPMENT, WELDERS, ETC.	17a	• Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	X	X	X	X	X		
		17b	Test unidentified materials	X	X	X	X	X		
		17c	Examine seam welds of HSS shapes	X	X	X	X	X		
		17d	Verify and document steel fabrication per DSA approved construction documents.	X	X	X	X	X		
		19a	Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	X	X	X	X	X		X
		19b	Verify weld filler material manufacturer's certificate of compliance.	X	X	X	X	X		X
		19c	Verify WPS, welder qualifications and equipment.	X	X	X	X	X		X
	SHOP WELDING See Note 3	19.1a	Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	X	X	X	X	X		
		19.1b	Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	X	X	X	X	X		
		19.1c	Inspect welding of stairs and railing systems.	X	X	X	X	X		
		19.1d	Verfication of reinforcing steel weldability other than ASTM 706				X	X		X
		19.1e	Inspect welding of reinforcing steel.				X	X		X
		19.2c	Inspect end-welded studs (ASTM A-108) installation (including bend test).				X	X		
		19.2d	Inspect floor and roof deck welds.		X			X		
		19.2e	Inspect welding of structural cold-formed steel. Periodic/Special Inspector.	X	X	X	X	X		
	FIELD WELDING See Note 3	19.2a	Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds			X	X	X		X
		19.2b	Inspect single-pass fillet welds ≤ 5/16"			X	X	X		X
		19.2f	Inspect welding of stairs and railing systems			X	X	X		X
	NON-DESTRUCT. TESTING	20a	Ultrasonic. See note 8	X	X	X	X	X		
		20b	Magnetic Particle. See note 8	X	X	X	X	X		

INSPECTOR CLASS (minimum requirements)	RBIP or Class 1	In Plant RBIP or Class 1 Site: Class 4 for Single Story Site: Class 2 for Two-story	Class 4 for Single Story Class 2 for Two-story
SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY	By the Owner and approved by DSA, A/E of Record and Structural Engineer	By the School District and approved by DSA, A/E of Record and Structural Engineer	
COST OF THE PROJECT INSPECTOR (Title 24, Part1,Section 4–333(b)) AND TESTING AGENCY (Title 24, Part 1, Section 4–335)	By the Owner (not manufacturer)	By the School District	

NOTE 1: Reinforcing steel tests may be waived for one-story buildings where certified mill test reports are provided to IOR for each shipment. CBC sec 1910A.2.
NOTE 2: Not used.
NOTE 3: Required only where the details of the PC specify this welding.
NOTE 4: These tests and inspections are applicable only when a geotechnical report is req.
NOTE 5: Wood foundations are not permitted for permanent modular buildings per CBC sec 1807A.1.4.
NOTE 6: Not used.
NOTE 7: 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.
NOTE 8: Nondestructive testing inspection is to be determined by AOR/DSA per project specific requirements. UT testing shall be performed on 100% of complete joint penetration groove welds when columns have a thickness of 5/16" or greater. Magnetic particle testing shall be performed on 25% of all beam-to-column complete joint penetration groove welds.

The Example form DSA-103's shown on this sheet are for illustration purposes only to assist in the completion of future project-specific form DSA-103's. A form DSA-103 is to be completed for each Application that this PC is being incorporated into and all Example form DSA-103's are to be crossed out on this drawing.

PC GENERAL NOTES

1. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES.
2. PC BUILDING APPROVED ONLY FOR OCCUPANCY B, OR E WITH OCCUPANT LOAD LESS THAN 250. (2019 CBC TABLE 1604A.5 RISK CATEGORY I & II).
3. PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
4. PC BUILDING LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A.
5. THIS PC IS APPROVED FOR FIRE HAZARD SEVERITY ZONES PER C.B.C. CHAPTER 7A. REFER TO WILDLAND URBAN INTERFACE NOTES ON SHEET A1N FOR REQUIREMENTS.
6. SITE AND USE SPECIFIC REQUIREMENT FOR FIRE ALARM SYSTEM MIGHT BE REQUIRED BUT NOT INCLUDED IN THIS PC APPROVAL.
7. THIS BUILDING IS STRUCTURALLY DESIGNED TO SUPPORT THE WEIGHT OF A FUTURE FIRE SPRINKLER SYSTEM (EQUIVALENT TO 1.5 psf MAXIMUM), IF REQUIRED.
8. THIS PC IS APPROVED FOR CLIMATE ZONES 1 THROUGH 16.
9. THIS PC IS NOT ELIGIBLE FOR OTC REVIEWS WHERE HAZARDOUS MATERIALS ARE USED OR STORED IN ROOMS OR AREAS. A SITE SPECIFIC APPLICATION IS REQUIRED FOR DSA APPROVAL
10. A WAIVER OF DURABILITY IS REQUIRED FOR BUILDINGS 2,160 SQUARE FEET OR LESS WHEN EITHER OF THE FOLLOWING CONDITIONS EXISTS:
    - A NON-PERMANENT FOUNDATION IS USED.
    - A PERMANENT EXTERIOR FOUNDATION IS USED AND THE DISTANCE FROM THE EXTERIOR EXPOSED GROUND OR PAVEMENT TO UNTREATED WOOD WALL FRAMING (INCLUDING THE WALL SHEATHING) IS LESS THAN REQUIRED BY CBC SECTION 2304.12.1.2.

    THE REQUEST FOR A WAIVER OF DURABILITY MAY BE MADE ON THE DSA-1 APPLICATION FORM OR BY LETTER FROM THE APPLICANT OR AN AGENT OF THE APPLICANT. A REQUEST FOR WAIVER FROM THE BUILDING MANUFACTURER OR LEASING COMPANY WILL NOT BE ACCEPTED. THIS WRITTEN REQUEST SHALL BE SUBMITTED TO DSA BEFORE THE CONSTRUCTION DOCUMENTS ARE APPROVED BY DSA.
11. ENVIRONMENTAL COMFORT FOR SITE ADOPTED PC BUILDINGS:
    PC MANUFACTURER SHALL DISCUSS WITH THE SCHOOL DISTRICT IF THE FOLLOWING NOISE LEVELS ARE EVER EXPERIENCED ON CAMPUS:
    1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT.
    2. WITHIN THE 65 CNEL OR Ldn NOISE CONTOUR OF A FREEWAY, EXPRESSWAY, RAILROAD, OR INDUSTRIAL SOURCE GUIDEWAY.
    3. WHERE EXPOSED TO NOISE LEVEL OF 65dB Leq-1-hr DURING ANY HOUR OF OPERATION.

    PC BUILDING INTERIOR WALLS BETWEEN CLASSROOMS, TEACHER WORK SPACES, BREAK OUT ROOMS, OR OTHER OCCUPIED SPACES SHALL HAVE A MINIMUM STC OF AT LEAST 40.
12. AUTOMATIC FIRE SPRINKLER SYSTEM IS NOT DESIGNED NOR APPROVED AS PART OF THIS PC. IF REQUIRED, A COMPLETE FIRE SPRINKLER DESIGN SHALL BE SUBMITTED FOR DSA APPROVAL FOR THE SITE SPECIFIC APPLICATION.
13. BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER AT OCCUPANCY OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF MECHANICAL EQUIPMENT AND LIGHTING SYSTEMS.
14. GEOHAZARD REPORTS:
    SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR THE FOLLOWING CASES:

    EXISTING SITES OUTSIDE OF A MAPPED GEOLOGIC HAZARD ZONE: SINGLE-STORY RELOCATABLE BUILDINGS 4,000 SQUARE FEET (SQ. FT.) OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4: GEOHAZARD REPORT REQUIREMENTS, SECTION 3.2.1 ARE EXEMPT FROM THE REQUIREMENT TO PROVIDE A GEOHAZARD REPORT. THE STRUCTURES MAY BE SPLIT INTO MULTIPLE SEISMICALLY SEPARATED STRUCTURES TO STAY BELOW THE 4,000 SQ. FT. TRIGGER.

    SITES WITHIN A MAPPED GEOLOGIC HAZARD ZONE: FOR SINGLE-STORY RELOCATABLE BUILDINGS 2,160 SQ. FT. OR LESS ON NON-PERMANENT FOUNDATIONS AND COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 2.6, DSA MAY WAIVE THE REQUIREMENT FOR SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY CGS IF A GEOHAZARD REPORT IS ROVIDED THAT INDICATES THERE ARE NO GEOLOGIC HAZARDS AT THE SITE.

DSA GENERAL NOTES

1. ALL MATERIALS & WORKMANSHIP SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE (C.B.C.). A COPY OF THE CALIFORNIA BUILDING CODE SHALL BE KEPT ON THE SITE AT ALL TIMES.
2. CHANGES TO THE APPROVED DRAWINGS & SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SEC. 4-338, PART 1, TITLE 24, CCR.
3. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) & APPROVED BY THE ARCHITECT OF RECORD & THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333(b) OF 2019 TITLE 24, PART 1.
4. MATERIAL TESTING AS NOTED IN THE STRUCTURAL TESTS & INSPECTIONS AT THE LEFT SHALL BE PERFORMED AS REQ. PER SECTION 1704A & 2212A, & 1910A FOR CONCRETE OF 2019 C.B.C. MATERIAL TESTING REQUIRED BY FIRE REGULATIONS SHALL BE PERFORMED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
5. VERIFIED REPORTS (DSA/SSS FORM 6) SHALL BE SUBMITTED PER SECTION 4-336, 4-341(f), 342(b)(9), AND 4-343 (c) BY THE MANUFACTURER, INSPECTOR, STRUCTURAL ENGINEER.
6. A SEPARATE DSA APPLICATION NUMBER MUST BE OBTAINED BEFORE MANUFACTURING ANY ENVIROPLEX UNIT IN ACCORDANCE WITH THESE DRAWINGS.
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS & ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8. SPECIAL INSPECTIONS PER CHAPTER 17A, 2019 C.B.C.
9. SITE SPECIFIC APPLICATION SHALL CLEARLY INDICATE THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.

OPT. COMBINATIONS ALLOWED

Option combination table
12'x40' PC

[X] applicable option selected for site specific project (to be marked/checked by PC manufacturer and verified by the design professional of the site specific project).
[ ] available option not used.
[shaded] option not allowed.

Option		Concrete foundation	Wood plate foundation
Exterior finish	Standard MDO w/ vertical grooves, cement board siding, lap siding, wood clad siding		X
	Stucc-o-flex		(not allowed)
	3-coat stucco: 2x4 stud walls not allowed, see sheet A4B.1		(not allowed)
Roof slope	Bi-pitch		X
	Shed		
Roof overhangs	Transverse endwalls		
	Longitudinal sidewalls		
Removable soffit metal panels			
Roof skylights	Sol-a-tubes		
Suspended canopies			
Awnings - see 4/AW2 for wall stud size requirements			
Floor load (see framing plans for joist spacing)	65 psf		X
Floor construction	1 1/8" plywood sheathing		X
	Concrete poured in pan		(not allowed)
Wall construction (see 5/A1D and notes below for restrictions)	2x4 wood studs		X
	2x6 wood studs		
Fire rated const.	NR/Sprinklered		
	Ext. Fire barriers - 2x4 studs not allowed		
	Int. Fire Barriers - 2x4 and 2x6 studs allowed		

Notes:
1) 2x4 wood studs are NOT allowed for exterior walls on concrete floor.
2) Exterior recessed walls are only applicable at 2x4 wood studs on plywood floor sheathing.

GOVERNING CODES

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC) (PART 1, TITLE 24, CCR)

2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR)
(2018 INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS)

AISI S200 - (WITH THE EXCEPTION THAT ENVIROPLEX COLD ROLLED STRUCTURAL SECTIONS ARE NOT GALVANIZED).

2019 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
(2017 NATIONAL ELECTRICAL CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR)
(2018 IAPMO UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR)
(2018 IAPMO UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR).

2019 CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24, CCR).
(2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11, TITLE 24, CCR)

2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13 - 2016 - SEE CBC CHAPTER 35.

NFPA 72 - 2016 - SEE CBC CHAPTER 35.

DESIGN CRITERIA

DEAD AND LIVE LOADS

FLOOR: LIVE LOAD - 65.0 PSF
FLOOR: DEAD LOAD -
- [X] PLYWOOD 12.0 PSF
- [ ] CONCRETE 40.2 PSF + 4.8 PSF MISC. = 45 PSF PSF

ROOF: SNOW LOAD - NOT PERMITTED
ROOF: LIVE LOAD - 20.0 PSF
ROOF: DEAD LOAD - 17.5 PSF (INCLUDES 4 PSF FOR FUTURE PV)

ALLOWABLE SOIL PRESSURE

- [X] WOOD PLATE FOOTING 1000 PSF (DL + LL + LATERAL)
- [ ] CONCRETE FOOTING 1500 PSF (DL + LL) 2000 PSF (DL + LL + LATERAL)

FLOOD DESIGN

BUILDINGS IN THIS PC ARE NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA

WIND DESIGN

BASIC WIND SPEED (3 SECOND GUST), V 100 MPH
WIND EXPOSURE CATEGORY C
CHAPTER 28, PART 2, ASCE 7-16, SEC 28.6 - SIMPLIFIED DESIGN WIND PRESSURES
λ = 1.21
RISK CATEGORY = II
K_{ZT} = 1.0

SEISMIC DESIGN CRITERIA

~~With site-specific geotechnical report ($S_s \leq 2.625$), OR~~
without site-specific geotechnical report ($S_s \leq 2.188$) *

LATERAL FORCE RESISTING SYSTEM
ANALYSIS PROCEDURE — ORDINARY STEEL MOMENT FRAMES
SEISMIC DESIGN CATEGORY (SDC) — EQUIVALENT LATERAL FORCE PROCEDURE
D ($S_1 \leq 0.75$)
E ($0.75 < S_1 < 1.5$)

1) RISK CATEGORY II
2) NOT ALLOWED FOR SITE CLASS E AND F

SEISMIC IMPORTANCE FACTOR I_e = 1.0
V = EQUIV. LATERAL FORCE PROCEDURE BASE SHEAR (STRENGTH DESIGN)
V = C_s W = 0.50W
$C_s = \frac{S_{DS}}{(R/I)}$ = 0.50
BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES
R = 3.5 ρ = 1.3
I = 1.0 C_d = 3.0
Ω_o = 3.0

~~WITH SITE-SPECIFIC GEOTECHNICAL REPORT (SITE CLASS: D)~~
~~S_s = 2.625 F_A = 1.0 ** S_{DS} = 1.75~~
~~$S_1 \leq$ 1.5 F_V = 1.5 $S_{D1} \leq$ 1.5~~

WITHOUT SITE-SPECIFIC GEOTECHNICAL REPORT (ASSUMED SITE CLASS: D)
S_s = 2.188 F_A = 1.2 ** S_{DS} = 1.75
$S_1 \leq$ 1.5 F_V = 1.5 $S_{D1} \leq$ 1.5

* PER ASCE 7-16 SECTION 11.4.4, WHEN SITE CLASS D IS ASSUMED (i.e. NO GEOTECHNICAL REPORT), F_A SHALL NOT BE LESS THAN 1.2. IN THIS PC, THE DIFFERENT MAXIMUM S_s VALUES FOR WITH AND WITHOUT SITE-SPECIFIC GEOTECHNICAL REPORT WERE SELECTED SO BOTH CASES ARE DESIGNED FOR THE SAME SEISMIC DESIGN RESPONSE FACTOR C_s.

** PER ASCE 7-16, 12.8.1.3: 1) RISK CATEGORY II 2) **NOT** ALLOWED FOR SITE CLASS E AND F "THE VALUE OF C_S AND E_V ARE PERMITTED TO BE CALCULATED USING A VALUE OF S_{DS} EQUAL TO 1.0, BUT NOT LESS THAN 70% OF S_{DS} AS DEFINED IN SECTION 11.4.5." THEREFORE, THIS PC IS PERMITTED FOR USE IN LOCATIONS WHERE S_S IS EQUAL TO 2.625 MAX (1.225/0.7)/(2/3) WHERE THERE IS A SITE-SPECIFIC GEOTECHNICAL REPORT AND IN LOCATIONS WHERE S_s IS EQUAL TO 2.188 MAX (1.225/0.7)/(2/3)/(1.2) IN LOCATIONS WHERE THERE IS NO SITE-SPECIFIC GEOTECHNICAL REPORT.

SITE SPECIFIC SEISMIC DESIGN CRITERIA

THESE CHECK BOXES AND VALUES ARE TO BE FILLED IN DURING A SITE-SPECIFIC APPLICATION FOR COMPARISON TO THE VALUES USED TO DESIGN THE PC.

- [ ] WITH GEOTECHNICAL REPORT (SITE CLASS D)
  S_s = ________ < 2.625
  S_1 = ________ < 1.5
- [X] WITHOUT GEOTECHNICAL REPORT (ASSUMED SITE CLASS D)
  S_s = 0.56 < 2.188
  S_1 = 0.243 < 1.5

MAXIMUM DRIFTS

BIPITCH OR SHED ROOF 1.9"

BUILDING DATA

CONSTRUCTION TYPE:	V-B
OCCUPANCY:	~~"B" OR~~ "E"
BUILDING AREA:	480 S.F. NOMINAL
NUMBER OF STORIES:	1

SHEET INDEX

[X] MARKED BOX REPRESENTS DRAWING/OPTION TO BE USED FOR APPLICATION

ARCHITECTURAL

Floor Plan, Elevations, Specifications, Notes, and Roofing Attachment
- [X] A0 – COVER SHEET, BUILDING CODES & C.B.C. DATA, SHEET INDEX
- [ ] A1 – BOYS, GIRLS RESTROOM FLOOR PLAN, INTERIOR & EXTERIOR ELEVATIONS
- [X] A1A – STAFF, BOYS, GIRLS RESTROOM FLOOR PLAN, INT. & EXT. ELEVATIONS.
- [X] A1D – ROOF PLANS & DETAIL
- [X] A1N – MATERIAL SPECIFICATIONS & NOTES
- [X] A1R – ROOFING ATTACHMENT

Ceiling Plans, & Ceiling Attachment Details, and Specifications
- [X] A2 – REFLECTED CEILING PLANS & CEILING ATTACHMENT DETAILS

Green Building & Energy Compliance
- [X] AGB – GREEN BUILDING STANDARDS AND SOLAR READY REQUIREMENTS
- [X] EN1 – ENERGY COMPLIANCE
- [X] EN2 – ENERGY COMPLIANCE
- [X] EN3 – ENERGY COMPLIANCE
- [X] EN4 – ENERGY COMPLIANCE
- [X] EN5 – ENERGY COMPLIANCE

Electrical & Lighting
- [X] A3 – ELECTRICAL POWER PLAN, SIGNAL PLAN, LIGHTING PLAN, DETAILS, ELECTRICAL NOTES
- [X] A3.1 – LIGHTING NOTES & DIAGRAMS

Roof Options

Sections & Details without Overhang
- [X] A4 – SECTIONS AND DETAILS WITHOUT OVERHANG 2x4 EXTERIOR WALLS (NON–RATED)
- [ ] A4.1 – SECTIONS AND DETAILS WITHOUT OVERHANG 2x6 EXTERIOR WALLS (NON–RATED)
- [ ] A4.3 – SECTIONS AND DETAILS WITHOUT OVERHANG (1–HOUR FIRE RATED 2x6 EXTERIOR FIRE BARRIERS)

Bi-Pitched Sections & Details with Overhang
- [ ] A4.4 – BI–PITCHED ROOF SECTIONS AND DETAILS (2x4 EXTERIOR WALLS)
- [ ] A4.5 – BI–PITCHED ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)
- [ ] A4.6 – BI–PITCHED ROOF SECTIONS AND DETAILS (1–HOUR FIRE RATED 2x6 EXTERIOR FIRE BARRIERS)

Shed Roof Sections & Details with Overhang
- [ ] A4A – SHED ROOF SECTIONS AND DETAILS (2x4 EXTERIOR WALLS)
- [ ] A4A.1 – SHED ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)
- [ ] A4A.3 – SHED ROOF SECTIONS AND DETAILS (1–HOUR FIRE RATED 2x6 EXTERIOR FIRE BARRIERS)

Architectural Details
- [ ] A4B – STUCCO MATERIAL SPECIFICATIONS
- [ ] A4B.1 – TYPICAL STUCCO FINISH DETAILS
- [ ] A4S – OPTIONAL SIDEWALL OVERHANG DETAIL
- [ ] A4C.1 – NON RATED WALL ATTACHMENT DETAILS (CONCRETE FLOORS)
- [ ] A4C.2 – 1–HOUR FIRE BARRIER WALL ATTACHMENT DETAILS (CONCRETE FLOORS)
- [X] A4H – INTERIOR WALL CONNECTION DETAILS
- [ ] A4H.1 – INTERIOR WALL CONNECTION DETAILS (1–HOUR FIRE BARRIERS OR FIRE PARTITIONS)
- [X] A5 – MISCELLANEOUS DETAILS
- [ ] A5.1 – SOL–A–TUBE SKYLIGHT OPTION

Deterioration Protection, Wood Floors
- [X] A6 – DETERIORATION PROTECTION (2x4 EXTERIOR WALLS) (WOOD FLOORS) (BUILDING UNDER 2160 S.F.)
- [ ] A6.0 – DETERIORATION PROTECTION (2x6 EXT. WALLS) (WOOD FLOORS) (BLDG. UNDER 2160 S.F.)

Deterioration Protection, Concrete Floors
- [ ] A6.4 – DETERIORATION PROTECTION (2x6 EXT. WALLS) (CONC. FLOORS) (BLDG. UNDER 2160 S.F.)

STRUCTURAL

Foundation Plans, Details and Notes (Wood Floors)
- [ ] S1 – FOOTING DETAILS
- [ ] S1C – CONCRETE FOUNDATION PLAN, NO CRAWLSPACE, FOOTING DETAILS, & NOTES – (WOOD FLOOR)
- [ ] S1C.1 – CONCRETE FOUNDATION PLAN, WITH CRAWLSPACE, FOOTING DETAILS – (WOOD FLOOR)
- [ ] S1C.2 – MISCELLANEOUS FOOTING DETAILS – (WOOD FLOOR)

Foundation Plans, Details and Notes (Concrete Floors)
- [ ] S1C.3 – CONCRETE FOUNDATION PLAN, NO CRAWLSPACE, FOOTING DETAILS, & NOTES – (CONCRETE FLOORS)
- [ ] S1C.4 – CONCRETE FOUNDATION PLAN, WITH CRAWLSPACE, FOOTING DETAILS – (CONCRETE FLOORS)
- [ ] S1C.5 – MISCELLANEOUS FOOTING DETAILS – (CONCRETE FLOORS)

Wood Foundation Plans, Details and Notes
- [X] S1W65 – 65 P.S.F. WOOD FOUNDATION PLAN, PIER DETAILS, NOTES

Roof, Ceiling, and Floor Framing Plans, Structural Steel Properties, and Notes
- [X] S2 – BI–PITCH ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
- [ ] S2A – SHED ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES

Concrete Floor Option & Fastening Schedule
- [ ] S2C.1 – FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES (CONCRETE FLOORS)
- [X] S3FA – FASTENING SCHEDULE & NOTES.

Sections and Elevations
- [X] S3 – BI–PITCHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION
- [ ] S3A – SHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION

Structural Details
- [X] S4 – STRUCTURAL CONNECTION DETAILS
- [X] S4.1 – OPTIONAL STRUCTURAL DETAILS
- [X] S4.2 – MISCELLANEOUS STRUCTURAL DETAILS
- [ ] S4.3 – METAL SOFFIT PANELS, REMOVABLE CASSETTE (M. LARA EDITION)
- [ ] S4C – STRUCTURAL CONNECTION DETAILS – (CONCRETE FLOORS)

Canopy & Awning
- [ ] WC1 – CANOPY FRAMING & CONNECTION DETAILS
- [ ] WC2 – CANOPY FRAMING & CONNECTION DETAILS
- [ ] AW1 – METAL AWNING
- [ ] AW2 – METAL AWNING

Ramp, Platform, and Stairs
- [X] S5R – ACCESSIBLE RAMP & PLATFORM DETAILS
- [X] S5R.1 – PLATFORM DETAILS (PLATFORM OVER 18" HEIGHT)
- [ ] S5S – STAIR DETAILS

62 TOTAL SHEET COUNT

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07/08/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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DATE: 07/29/2021

COVER SHEET, BUILDING CODES, C.B.C. DATA, SHEET INDEX

REV / DATE:	BY:

JOB No.:
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A0

12'x40' P.C.

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
COVER SHEET, BUILDING CODES, CBC DATA, AND SHEET INDEX

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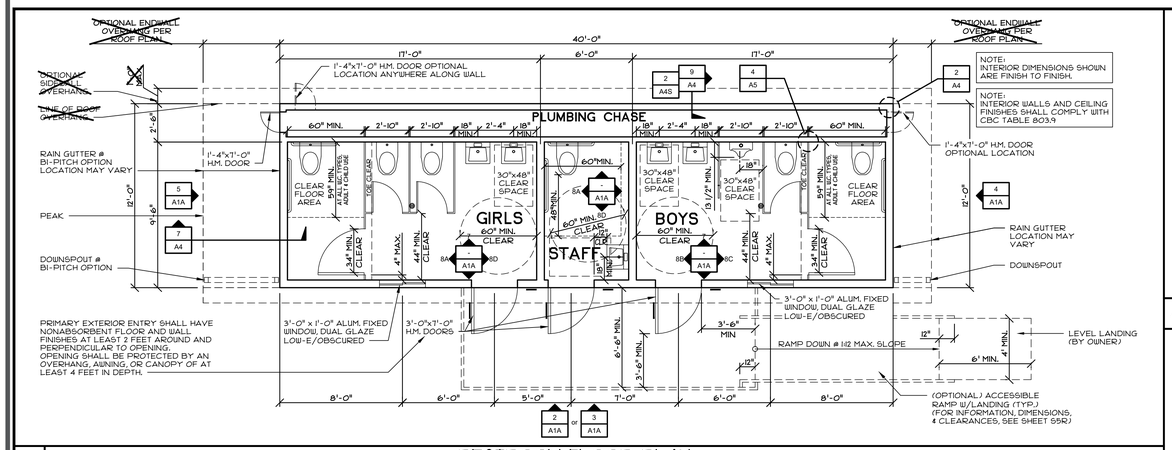
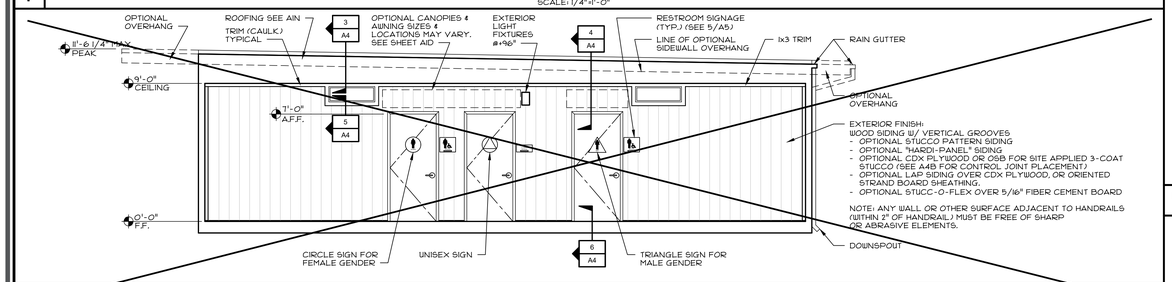


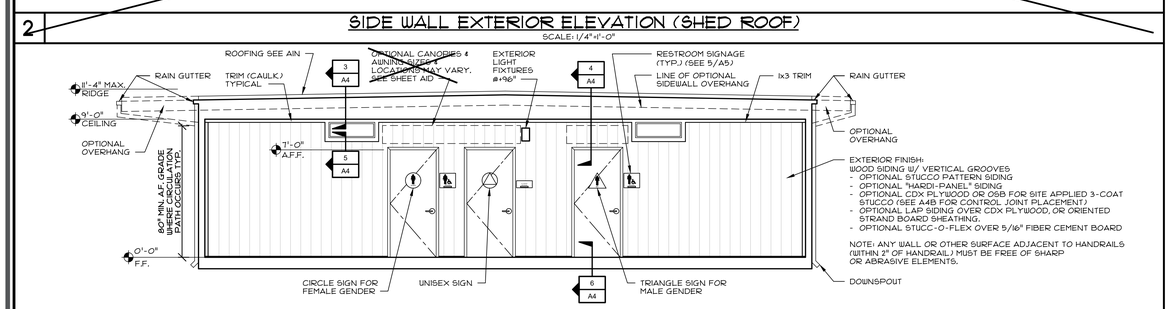
1 RESTROOM FLOOR PLAN

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



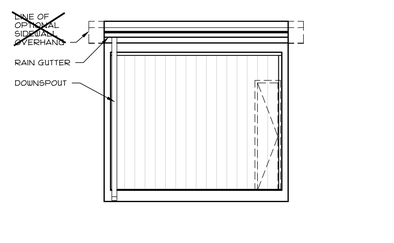
2 SIDE WALL EXTERIOR ELEVATION (SHED ROOF)

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



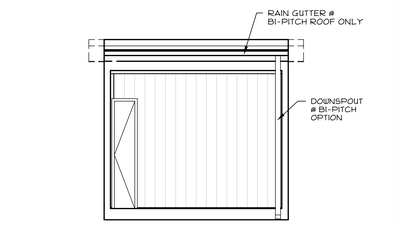
3 SIDE WALL EXTERIOR ELEVATION (BI-PITCHED ROOF)

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



4 EXTERIOR ENDWALL ELEVATION

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



5 EXTERIOR ENDWALL ELEVATION

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

CBC TABLE 11B-604.9
SUGGESTED DIMENSIONS FOR CHILDREN'S USE

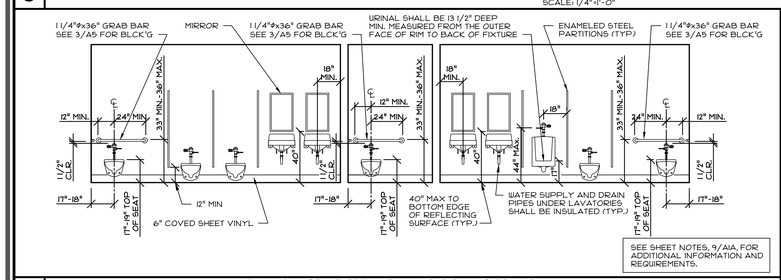
	AGES 3 AND 4	AGES 5 THRU 8	AGES 9 THRU 12
WATER CLOSET CENTERLINE	12"	12" TO 15"	15" TO 18"
TOILET SEAT HEIGHT	11" TO 12"	12" TO 15"	15" TO 17"
TOP OF GRAB BAR HEIGHT	15" TO 20"	20" TO 25"	25" TO 27"
DISPENSER HEIGHT TO OUTLET	14"	14" TO 17"	17" TO 19"

DIMENSIONS FOR ADULT USE

WATER CLOSET CENTERLINE	17" TO 18"
TOILET SEAT HEIGHT	17" TO 19"
GRAB BAR HEIGHT	33" TO 36" (TO TOP OF GRIP SURFACE)
DISPENSER HT. TO OUTLET TOILET PAPER & SAN. NAPKIN DISPOSAL	19" TO OUTLET (7" TO 9" FROM FRONT OF TOILET TO CENTERLINE)

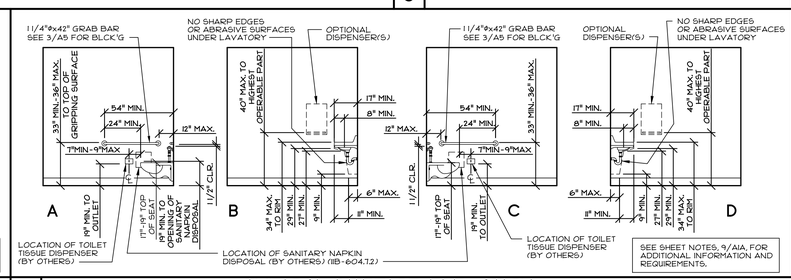
IB-609 GRAB BARS
IB-609.3 SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2" (38 mm). THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2" (38 mm) MIN. THE SPACE BETWEEN THE GRAB BAR & PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES (305 mm) MINIMUM.

6 TYPICAL FIXTURE MOUNTING HEIGHTS



7 TYPICAL INTERIOR ELEVATION

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



8 TYPICAL INTERIOR ELEVATION

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

FOR MATERIAL SPECIFICATIONS & NOTES, SEE SHEET A1N.

NOTES:

1. PLAN AND ELEVATIONS ON THIS SHEET ONLY REFERENCE SHEET "A4". APPLICABLE DETAILS FOR DIFFERENT BUILDING OPTIONS MAY BE FOUND THROUGHOUT ANY OF THE "A4X.X" SHEET SERIES.
2. ON DETAILS 7 & 8 ADULT DIMENSIONS ARE SHOWN. SEE 6/- WHEN SUBSTITUTIONS OF CHILD DIMENSIONS ARE REQUIRED
3. REQUIRED TOE CLEARANCE UNDER LAV. IS 17" MIN. TO 19" MAX.
4. BUILDINGS WITH A PERMANENT FOUNDATION SHALL HAVE A MINIMUM OPENING SIZE OF 34" WIDE x 18" TALL TO ACCESS ALL UNDER-FLOOR UTILITIES SUCH AS ELECTRICAL, MECHANICAL, AND PLUMBING. SEE 7/SIC.1 OR 6/SIC.4

9 SHEET NOTES

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Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
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17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
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SHEET NAME:
STAFF, BOYS, GIRLS RESTROOM FLOOR PLAN, INTERIOR AND EXTERIOR ELEVATIONS, MATERIAL SPECIFICATIONS, AND NOTES

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DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

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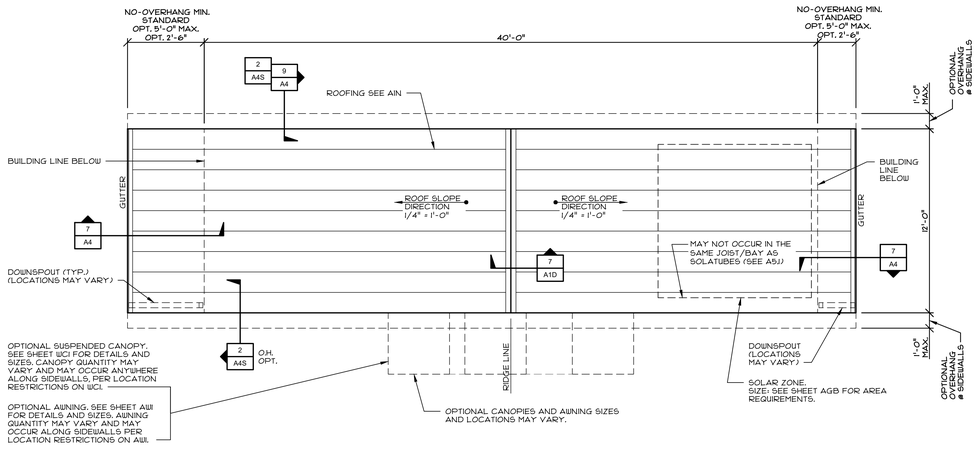
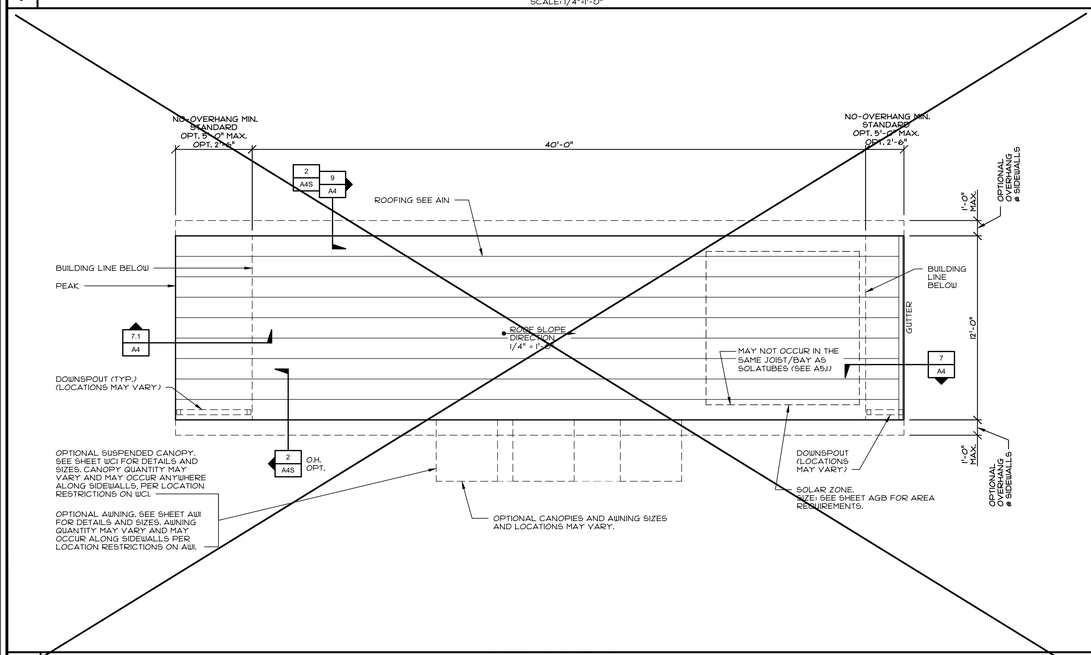


1 BI-PITCH ROOF PLAN

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

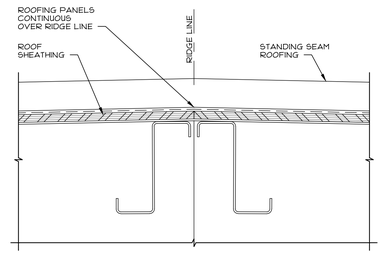


1.1 SHED ROOF PLAN

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

2

3



7 BI-PITCH ROOF CAP DETAIL

SCALE: 3"=1'-0"

NOTE:
BI-PITCH ROOF PLAN AND SHED ROOF PLAN ON THIS SHEET ONLY REFERENCES SHEET "A4"

SHEET REFERENCES

WHERE DETAIL "A4" IS CALLED OUT.

STUD SIZE	W/O OHG.	BI-PITCH W/ OHG.	SHED W/ OHG.	1 HR. FIRE BARRIER W/O OHG.	1 HR. FIRE BARRIER W/ BI-PITCH OHG.	1 HR. FIRE BARRIER W/ SHED OHG.
2x4	A4	A4.4	A4A	N/A	N/A	N/A
2x6	A4.1	A4.5	A4A.1	A4.3	A4.6	A4A.3

FUTURE SOLAR INSTALLATION WILL REQUIRE SEPARATE DSA APPLICATION PER 1R PC-6, SEC. 2.3

5 SHEET NOTE

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JAMES ERNEST CYS
No. S2030
Exp. 12/31/21
STATE OF CALIFORNIA

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4777 E. CARPENTER ROAD
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118743 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/29/2021

ROOF PLANS & DETAIL

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

A1D

AGENCY APPROVAL:

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HMC Architects

R221551X01

LICENSED ARCHITECT JEFFREY ALAN GRAD C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ROOF PLANS AND DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

A1D

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FINISHES:

1. RESILIENT BASE COVE -
   BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH, MOULDED TOP SET COVE.
   SOLID COLORS AS MANUFACTURED BY "BURKE RUBBER CO." OR EQUAL.
   ADHESIVE SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE, SEC 5.504.4.1
   BASE COVE SHALL OF NOT LESS THAN CLASS II, CBC 804.2 & 806.8

2. COMMERCIAL SHEET VINYL / RESILIENT FLOORING -
   ARMSTRONG CORLON OR EQUAL.
   FLOORING SHALL BE SLIP RESISTANT. (0.5 MIN. COEFFICIENT OF FRICTION PER ASTM D-2047)
   80% OF NON-ABORBENT FLOORING SHALL COMPLY WITH 2019 CAL GREEN STANDARDS CODE, SECTION 5.504.4.6.
   APPLICATION AND MAINTENANCE OF POLISHED-COATED FLOOR SURFACES IS BY OWNER.

   WALL BASE - 6" SELF COVED SHEET VINYL (SAME AS NOTE 1.1 ABOVE)

3. FIBERGLASS REINFORCED POLYETHYLENE (FRP) PANELS OVER 1/2"
   GYPSUM WALL BOARD (OVER WATER RESISTANT GWB AT PLUMBING AND WET WALLS ONLY)
   FRP FLAME SPREAD 25, SMOKE DENSITY 180.

5. ADHESIVES SHALL BE WATER BASE, SOLVENT BASE NOT ACCEPTABLE. FURNISH AND APPLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
   ADHESIVES SHALL COMPLY WITH 2019 CGBSC, SECTION 5.504.4.1

6. SEALANTS -
   ROOF & MODULE LINE - POLYURETHANE
   SIDING & TRIM - ACRYLIC LATEX
   SEALANTS SHALL COMPLY WITH 2019 CGBSC, SECTION 5.504.4.1

7. PAINT -
   EXTERIOR WOOD
   PRIMER.....ACRYLIC UNDERCOAT
   FINISH ......ACRYLIC LATEX

   ALL STRUCTURAL STEEL AND NON-GALVANIZED LIGHT GAUGE STEEL (EXPOSED AND NON-EXPOSED)
   PRIMER.....RED OXIDE ALKYD
   FINISH ....ACRYLIC LATEX

   PAINTS AND COATINGS SHALL COMPLY WITH 2019 CGBSC, SECTION 5.504.4.3

8. EXTERIOR SIDING -
   8" o.c. GROOVED MEDIUM DENSITY OVERLAY (M.D.O.), PLYWOOD, LAP SIDING, OR STUCCO PATTERN FACED EXTERIOR HARDBOARD SIDING. (MINIMUM NET THICKNESS 3/8").

   COMPOSITE WOOD PRODUCTS SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE, SECTION 5.504.4.5

9. JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT INFILTRATION AND EXFILTRATION.
   SEALANT PAINTED TO MATCH FINISHES.

10. ENVIRONMENTAL QUALITY:
    ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, CARPET SYSTEMS, CARPET CUSHIONS, COMPOSITE WOOD PRODUCTS, AND RESILIENT FLOORING SYSTEMS SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE, REFERENCE TABLES 5.504.4.1, 5.504.4.2, 5.504.4.3, 5.504.4.5, AND 5.504.4.6.

DOORS:

1. HOLLOW METAL DOORS AND FRAMES- SIZES NOTED ON PLAN, 1 3/4" THICK 18 GA.
   FULL FLUSH DOOR IN 16 GA. METAL FRAME
   EXIT DOOR SHALL BE OPENABLE FROM THE INTERIOR WITHOUT A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

2. CLOSERS FOR INTERIOR AND EXTERIOR DOORS SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 5 LBS. MAX. CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

3. DEADBOLTS NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HANDLE.

4. DOOR HANDLES & PULLS SHALL BE PLACED ON BOTH SIDES; LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE, SHALL BE 5 LBS. MAX. TO ACTIVATE OPERABLE PARTS, AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR.

5. DOOR SWINGS CAN BE RIGHT OR LEFT HAND HINGE.

6. HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE FINISHED FLOOR. - ALL DOORS TO CLASSROOMS, AND ANY ROOM WITH AN OCCUPANT LOAD OF 5 OR MORE PERSONS, SHALL BE EQUIPED WITH 'AB211' COMPLIANT HARDWARE.
   COMPLIANT WITH C.B.C. 1010.1.11.

7. RESTROOM EXTERIOR DOOR HARDWARE:

LOCKSET:	SCHLAGE ND70PD RHO OR EQUAL
HINGES:	HAGER BB1279 N.R.P 4-1/2"x4-1/2" OR EQUAL
CLOSER:	NORTON 8501BF OR EQUAL
THRESHOLD:	PEMKO 271A OR EQUAL
DOOR BOTTOM:	PEMKO 216AV OR EQUAL
WEATHERSTRIP:	PEMKO 306A OR EQUAL

Exit Signs:
Where required, exits and exit access shall be marked by approved exit sign readily visible from any direction of egress travel per CBC 1013.

WINDOWS:

FENESTRATION SPECIFICATION												
FENEST. ASSEMBLY NAME	OPERABLE	WIDTH x HEIGHT	FRAME MATERIAL	MAXIMUM U-FACTOR	REQUIRED SHGC	MINIMUM VT	NFRC RATED	NFRC DIRECTORY REF No.	LOW-E	QTY. OF PANES	GLASS SPEC.	TEMPERED
LOW E INTERNATIONAL	PER PLAN	PER PLAN	ALUM.	0.52	0.34	0.59	YES	INT-A-73-002 11-000 17	YES	2	CLR.	YES
SOLATUBE 330 DS-C SINGLE DOME NATURAL EFFECTS LENS WITH THERMAL INSULATION PANEL	NO	22" DIA.	PLASTIC	0.18	0.33	0.38	YES	STU-K-3-00012-00001	N/A	N/A	CLR.	YES

NOTE:
1) TEMPORARY NFRC LABELS SHALL STAY ON FENESTRATION UNTIL VERIFIED BY THE IN-PLANT INSPECTOR TO MATCH THE FENESTRATION SPECIFICATION TABLE.
2) ANY FENESTRATION SUBSTITUTIONS MADE TO THE APPROVED PC MUST BE EQUAL OR BETTER THAN THE FENESTRATION ASSEMBLIES SHOWN IN THIS SCHEDULE.

1. **11B-229.1** GENERAL. WHERE GLAZED OPENINGS ARE PROVIDED IN ACCESSIBLE ROOMS OR SPACES FOR OPERATION BY OCCUPANTS, AT LEAST ONE OPENING SHALL COMPLY WITH SECTION 11B-309. EACH GLAZED OPENING REQUIRED BY AN ADMINISTRATIVE AUTHORITY TO BE OPERABLE SHALL COMPLY WITH SECTION 11B-309.

   11B-309 OPERABLE PARTS

   11B-309.1 GENERAL. OPERABLE PARTS SHALL COMPLY WITH SECTION 11B-309.

   11B-309.2 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH SECTION 11B-305. SHALL BE PROVIDED.

   11B-309.3 HEIGHT. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE REACH RANGES SPECIFIED IN SECTION 11B-308.

   11B-309.4 OPERATION. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.

   11B-305 CLEAR FLOOR OR GROUND SPACE

   11B-305.1 GENERAL. CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH SECTION 11B-305.

   11B-305.2 CLEAR FLOOR SPACE. FLOOR OR GROUND SURFACES OF CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH SECTION 11B-302. CHANGES IN LEVEL ARE NOT PERMITTED.

   EXCEPTION. SLOPED NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

   11B-305.3 SIZE. THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES (762 mm) MINIMUM BY 48 INCHES (1219 mm) MINIMUM.

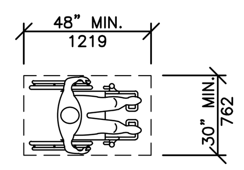


FIGURE 11B-305.3
CLEAR FLOOR OR GROUND SPACE

   11B-305.4 KNEE AND TOE CLEARANCE. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 11B-306.

   11B-305.5 POSITION. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

   11B-308.3 SIDE REACH.

   11B-308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES (1219 mm) MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES (381 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

PLUMBING:

1. **PLUMBING FIXTURE SCHEDULE:**

   WATER CLOSET (WALL MOUNT): KOHLER "KINGSTON" (1.28 G.P.F.) K-4325 OR EQUAL W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.

   WATER CLOSET (FLOOR MOUNT): KOHLER "HIGHCLIFF ULTRA" (1.28 G.P.F.) K-96058-SSL OR EQUAL W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.

   SEAT: **BEMIS 1955-SSC (O.F.L.C.) OR EQUAL**

   URINALS: **KOHLER "DEXTER" K-5452-ET (0.125 G.P.F.) OR EQUAL W/ SLOAN MODEL 186-0.125 FLUSH VALVE (0.125 G.P.F.) OR EQ.**

   LAVATORIES: **KOHLER "KINGSTON" K-2005 20" x 18" OR EQUAL**

   FAUCET: **T & S BRASS, B-2711-F05 (0.5 GPM) OR EQUAL**

   OPTIONAL WATER HEATER: "AO SMITH", PEC-30, 30 GAL, ELECTRIC, 15,359 INPUT RATE, (OR EQUAL) EXPOSED HOT WATER PIPES SHALL BE INSULATED. 1" THICK INSULATION FOR PIPE 1" DIA OR LESS. 1 1/2" THICK INSULATION FOR PIPE GREATER THAN 1" DIA.

   COLD WATER PIPING: **TYPE L COPPER**

   DRAIN, WASTE & VENT: **ABS AND PVC PIPES, STRAPPED TO RESIST HORIZONTAL** DISPLACEMENT DUE TO EARTHQUAKE MOTION PER TITLE 24, PART 5, CALIFORNIA CODE OF REGULATIONS, CHAPER 4, SEC. 401 (A)

2. ALL PLUMBING FIXTURES AND ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS. (PER SECTION C.B.C. 11B DIVISION 6)
   FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE BY ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
   THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.
   LEVER OPERATED, PUSH TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

3. ALL TOILETS; FLOOR MOUNTED, OR WALL MOUNTED W/ HAND OPERATED FLUSH VALVE LOCATED 44 INCHES MAX. ABOVE FLOOR. WHEELCHAIR ACCESSIBLE TOILETS SHALL HAVE THE FLUSH VALVE ACTIVATOR ON THE OPEN SIDE. A FLUSH VALVE AT TOILETS INSTALLED PER SUGGESTED DIMENSIONS FOR CHILDREN'S USE SHALL BE MAX. 36" A.F.F (11B-604.9.5)

4. RESTROOM PRIVACY PARTITIONS:
   DOORS HANDLES FOR ENAMELED STEEL PARTITIONS SHALL BE PLACED ON BOTH SIDES NEAR THE LATCH; SHALL PROVIDE A CLEAR WIDTH OF 34" FOR WHEELCHAIR ACCESSIBLE STALLS AND 24" WIDE FOR STANDARD STALLS. DOORS FOR ACCESSIBLE TOILETS SHALL BE SELF CLOSING, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE
   SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE, SHALL BE 5 LBS. MAX. TO ACTIVATE OPERABLE PARTS, AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR. (TOILET PARTITIONS MATERIALS PER 2019 CBC 803.1.1 - MIN. CLASS "C" RATING)

5. RESTROOM DOOR SIGNAGE:
   THE DOOR LEADING INTO BOY'S FACILITY SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD.
   THE DOOR LEADING INTO GIRL'S FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER.
   UNISEX FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4 THICK AND 12" IN DIAMETER WITH A 1/4" THICK TRIANGLE WITH THE VERTEX POINTING UPWARD SUPERIMPOSED ON THE CIRCLE & WITHIN THE 12" DIAMETER, MAXIMUM 1/4" FROM THE CIRCLE EDGES. THE GEOMETRIC SYMBOLS SHALL BE MOUNTED ON THE DOOR AT A HEIGHT PER DETAIL 5 SHEET A5 AND THEIR COLOR AND CONTRAST SHALL MEET THE IDENTIFICATION SIGNAGE FINISH REQUIREMENTS OF DETAIL 10 SHEET A5

ROOFING

1. METAL ROOF:
   PREFINISHED, UNPENETRATED INTERLOCKING, 26 GAGE MIN. GALVANIZED STEEL ROOF PANELS, MECH. CRIMPED STANDING SEAMS OVER SEAL-TITE #15 UNDERLAYMENT OVER 5/8" APA RATED, EXTERIOR GRADE PLYWOOD, OR ORIENTED STRAND BOARD (CLASS "B" FIRE RATING). REFERENCE 3/A1R FOR ATTACHMENT.
   AGED SOLAR REFLECTANCE: 0.08 THERMAL EMITTANCE: 0.75

INSULATION

1. ALL INSULATION (INCLUDING PIPE INSULATION) SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS, CALIFORNIA BUILDING CODE SEC, 720 & 2603 FOR FOAM.
   MAX FLAME SPREAD: 25, MAX SMOKE DENSITY: 450

   ROOF:
   (SEE 1/AGB FOR TYPICAL ROOF ENVELOPE ASSEMBLY.

   WALLS:
   (SEE 2/AGB FOR TYPICAL EXTERIOR WALL ENVELOPE ASSEMBLY)

   FLOOR:
   (SEE 3/AGB FOR TYPICAL FLOOR ENVELOPE ASSEMBLY)

IDENTIFICATION

1. NOTE: THE MANUFACTURER SHALL PLACE TWO PERMANENT METAL IDENTIFICATION TAG ON EACH MODULAR BUILDING MECHANICALLY FASTENED TO THE END WALL. THE TAG SHALL SHOW D.S.A. APPLICATION NUMBER, MANUFACTURER'S SERIAL NUMBER, PLANT INSPECTOR'S IDENTIFICATION MARK AND DESIGN FLOOR AND ROOF LIVE LOAD.
   PLACE ONE TAG ON EXTERIOR AND, ONE ON THE INTERIOR ABOVE CEILING LINE.

LUMBER NOTES

1. SAWN LUMBER GRADED PER WEST COAST LUMBER INSPECTION BUREAU, RULE 17.

2. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR #2,
   ALL BLOCKING SHALL BE DOUGLAS FIR #3,

3. LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.

4. LUMBER MAY BE REJECTED FOR BOXED HEART, EXCESSIVE WARP, TWIST, SPLIT, CHECK, FUNGUS, MOLD, OR ANY REASON PROVIDED BY GRADING RULES.

5. ALL FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION AND SHALL BE AT 19% MAXIMUM MOISTURE CONTENT (VERIFIED BY THE IN-PLANT INSPECTOR) BEFORE BEING ENCLOSED BY INSULATION, GYPSUM BOARD, OR OTHER SURROUNDING MATERIALS.

BUILDING AND WALL PANELS:

1. ALL MODULES MAY BE BUILT OPPOSITE HAND FROM THE WAY THEY ARE SHOWN

2. SIDEWALL & ENDWALL ELEVATIONS DEPICT NON-BEARING WALLS NOT REQUIRED FOR THE RESISTANCE OF VERTICAL OR LATERAL LOADS.

WILDLAND URBAN INTERFACE:

SPECIFIC REQUIREMENTS FOR EXTERIOR MATERIALS FOR BUILDINGS PLACED IN FIRE HAZARD SEVERITY ZONES. (CBC CHAPTER 7A):

ROOF COVERING: (C.B.C. SECTION 705A)
26 GA. GALV. STEEL (NON-COMBUSTIBLE) INTERLOCKED STANDING SEAM ROOF PANELS W/ NO SPACE BETWEEN ROOF PANELS AND ROOF DECKING. STANDING SEAM ROOF OVER ONE LAYER #15 ROOF FELT. (CBC 705A.2)
ROOF FIRE CLASS SHALL COMPLY WITH CBC 1505.1.1 THROUGH 1505.1.4 FOR SITE SPECIFIC W.U.I. REQUIREMENTS.

ROOF GUTTERS: (C.B.C. SECTION 705A.4)
SHALL BE SCREENED WITH A CORROSION-RESISTANT NONCOMBUSTIBLE WIRE MESH WITH 1/4" (6mm) OPENINGS OR EQUAL.

SOFFITS: (C.B.C. SECTION 707A.5)
NON COMBUSTIBLE CEMENT FIBER BOARD. ("LP SMARTSIDE" OR EQUAL)

EXTERIOR WALL FINISH: (C.B.C. SECTION 707.A.3)
NON COMBUSTIBLE CEMENT FIBER SIDING. ("LP SMARTSIDE" OR EQUAL)

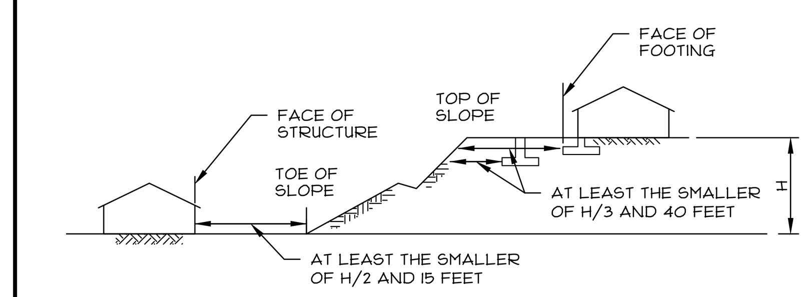
VERTICAL EXTERIOR WALL & SOFFIT VENTS: (C.B.C. SEC. 706A.1 & 2)
SCREENED WITH A CORROSION-RESISTANT NONCOMBUSTIBLE WIRE MESH WITH 1/16" (1.6mm) MIN. OPENINGS AND NOT TO EXCEED 1/8" (3.2mm).

EXTERIOR WINDOWS: (C.B.C. SECTION 708A.2.1)
METAL FRAME, TEMPERED GLASS. OR ASSEMBLY OF FIRE RESIST OF NOT LESS THAN 20 MINUTES.

EXTERIOR DOORS: (C.B.C. SECTION 708A.3)
NON COMBUSTIBLE METAL DOORS AND FRAME. OR ASSEMBLY OF FIRE RESISTANCE RATING NOT LESS THAN 20 MINUTES.

UNDERFLOOR PROTECTION: (C.B.C. SECTION 707A.8)
THE UNDERFLOOR AREA OF ELEVATED OR OVERHANGING BUILDINGS SHALL BE ENCLOSED TO GRADE OR THE UNDERSIDE OF THE EXPOSED UNDERFLOOR SHALL CONSIST OF NON COMBUSTIBLE MATERIAL, IGNITION RESISTANT MATERIAL, OR ONE LAYER OF 5/8" TYPE X GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF THE FLOOR PROTECTION.

UNDERSIDE OF APPENDAGES: (C.B.C. SECTION 707A.9)
THE UNDERSIDE OF OVERHANGING APPENDAGES SHALL BE ENCLOSED TO GRADE OR THE UNDERSIDE OF THE EXPOSED UNDERFLOOR SHALL CONSIST OF NONCOMBUSTIBLE MATERIAL, IGNITION RESISTANT MATERIAL, OR ONE LAYER OF 5/8" TYPE X GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF THE FLOOR PROTECTION.



1 MIN. FOUNDATION CLEARANCES FROM SLOPES
SCALE: NTS

CYS
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2495 Natomas Park Drive, Suite 650
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07/08/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

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FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
MATERIAL AND SPECIFICATIONS NOTES

BID SET

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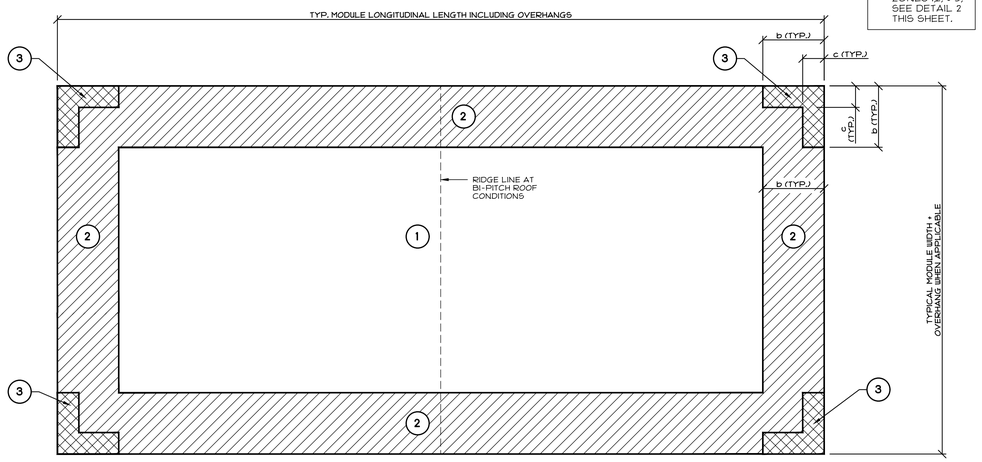
NOTE: FOR INFORMATION REGARDING ZONES 1,2, & 3, SEE DETAIL 2 THIS SHEET.



1A WIND PRESSURE ZONES AT "SHED" OR "BIPITCHED" ROOF

SCALE: NONE

"BIPITCHED" OR "SHED" ROOF

b - 0.6h *

c - 0.2h *

* h = MEAN ROOF HEIGHT IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ANGLES < 10°

1 2 3

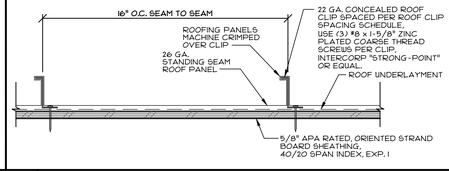
INDICATE DESIGN WIND PRESSURE ZONES PER ASCE 7-16 FIGURE 30.4-1, SEE SCHEDULE ON DETAIL 3, THIS SHEET FOR WIND PRESSURES IN EACH ZONE.

* b, c AND h DIMENSIONS DETERMINE THE LIMITS OF ZONE 3 AND MUST BE INDICATED ON A PLAN FOR EACH SITE-SPECIFIC PROJECT.

2 NOTES

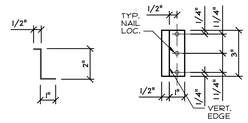
ROOF CLIP SPACING SCHEDULE		
ZONE	ULTIMATE WIND UPLIFT (PSF)	SPACING
3	88.6	18" o.c.
2	64.6	24" o.c.
1	46.1	24" o.c.

NOTE: ALL SEAMS SHALL HAVE ROOF CLIPS @ 2" MAX FROM ENDS OF ROOF EDGES. SEE DETAIL 6, THIS SHEET.



3 TYP. ROOFING ATTACHMENT

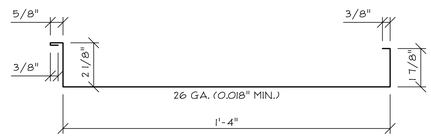
SCALE: 3"=1'-0"



CLIP PROFILE CLIP PLAN VIEW

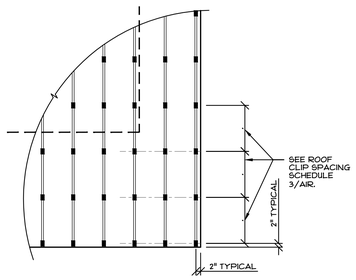
4 TYP. ROOFING CLIP

SCALE: 3"=1'-0"



5 TYP. STANDING SEAM PANEL

SCALE: NTS

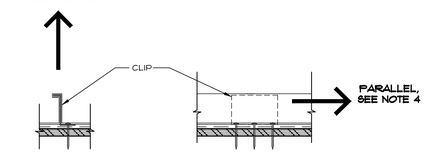


SEE 1A OR 1B, THIS SHEET FOR ZONES.

6 ROOFING CLIP SPACING DETAIL

SCALE: NONE

ALLOWABLE UPLIFT: 500/3 = 167 LBS UPLIFT AT ROOF CLIPS.



NOTES:

1. VALUES HAVE BEEN DETERMINED BY TESTING IN COMPLIANCE WITH DSA IR 16-8 USING S-5 MINI-CLAMPS INSTALLED DIRECTLY OVER ROOF CLIPS. WALLACE KUHL TEST REPORT 11228.01, DATED JUNE 4, 2021.
2. NOT USED.
3. ALLOWABLE UPLIFT CAPACITY INCLUDES A SAFETY FACTOR = 3.
4. THE CLIP SLIDING CAPACITY HAS NOT BEEN TESTED. IF SOLAR PANELS ARE TO BE ADDED TO A ROOF, THE ROOF CLIP SLIDING CAPACITY MUST BE DETERMINED BY FIELD TESTING FOR ROOF SLOPES EQUAL TO OR GREATER THAN 7 DEGREES, EXCEPT IF THE SLIDING LOAD FROM SEISMIC AND WIND ON THE SOLAR PANEL SYSTEM IS LESS THAN THE DISPLACED DESIGN LIVE LOAD SLIDING COMPONENT PER IR 16-8 SECTION 5.1.2.
5. P.V. PANEL ATTACHMENT IS NOT PART OF THIS PC APPROVAL.

7 ROOFING CLIP CAPACITIES

SCALE: NONE

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

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Δ	DESCRIPTION	DATE

CYS STRUCTURAL ENGINEERS INC. 5555 Madison Avenue, Suite 200 Sacramento, CA 95841-2519 (916) 929-0927 (916) 2901-1364 Fax www.cysengineers.com
07/08/2021

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DATE: 07/29/2021

ROOFING ATTACHMENT

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JOB No.:	
DRAWN BY:	
DATE:	

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KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ROOFING ATTACHMENT

BID SET

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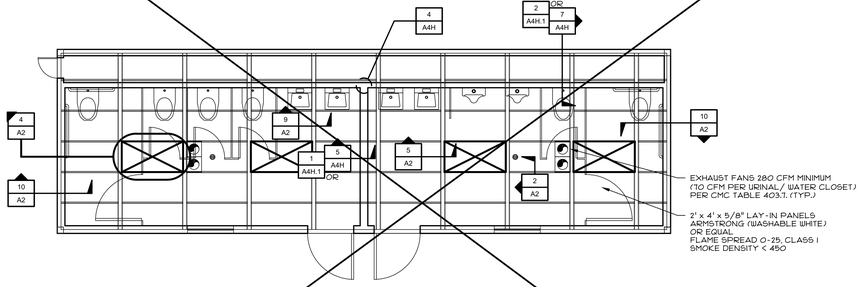
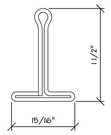


NOTE: CEILING TILE & LIGHTING FIXTURES IN MODULES ARE NOT SUSPENDED. THE BUILDING HAS A FIXED CEILING AND LIGHTING FIXTURE SUPPORT SYSTEM WHICH IS MECHANICALLY FASTENED TO STEEL CEILING BEAMS.

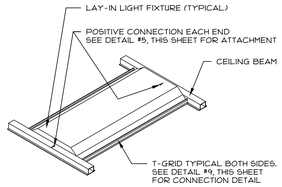
1 "BOYS / GIRLS" REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"



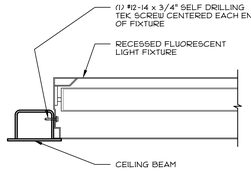
NOTE: T-GRID TO BE DONN CORP. CROSS TEE : DX424 OR CHICAGO METALLIC CORP. .020 TEE GRID, 400 SERIES OR EQUAL # 24" O.C. TYPICAL.

2 TYP. T-GRID SECTION
SCALE: FULL

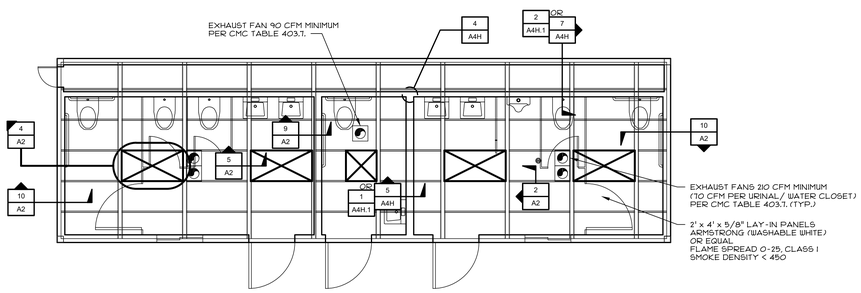
3



4 LAY-IN LIGHT FIXTURE
SCALE: 1/2"=1'-0"



5 LIGHT FIXTURE SUPPORT
SCALE: 3"=1'-0"

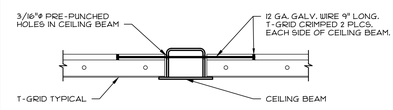


NOTE: CEILING TILE & LIGHTING FIXTURES IN MODULES ARE NOT SUSPENDED. THE BUILDING HAS A FIXED CEILING AND LIGHTING FIXTURE SUPPORT SYSTEM WHICH IS MECHANICALLY FASTENED TO STEEL CEILING BEAMS.

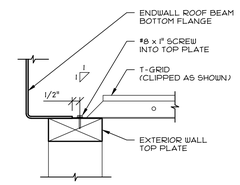
6 "STAFF / BOYS / GIRLS" REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

7

8



9 T-GRID CONNECTION DETAIL
SCALE: 3"=1'-0"



10 T-GRID CONNECTION DETAIL
SCALE: 3"=1'-0"

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REFLECTED CEILING PLANS & CEILING ATTACHMENT DETAILS

REV / DATE:	BY:

JOB No.:	
DRAWN BY:	
DATE:	

A2

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Δ	DESCRIPTION	DATE

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A NO.: 02-121807

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NOTE :
ONLY APPLICABLE CAL-GREEN MANDATORY MEASURES TO THE ENVIROPLEX MODULAR BUILDING ARE LISTED BELOW. FOR A COMPLETE LIST OF MEASURES REQUIRED FOR THE ENTIRE CONSTRUCTION PROJECT, REFER TO DSA DOCUMENT GL-4.

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.

2. URINALS.
   THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 0.125 GALLONS PER FLUSH FOR FLOOR MOUNTED URINALS AND 0.125 GALLONS PER FLUSH FOR WALL MOUNTED URINALS.

3. INDOOR WATER USE:
   LAVATORY FAUCETS - 0.5 GPM
   KITCHEN FAUCETS - 1.8 GPM 60 p.s.i.
   GRAVITY TANK WATER CLOSET - 1.28 GAL/FLUSH
   FLUSHOMETER TANK WATER CLOSET - 1.28 GAL/FLUSH
   FLUSHOMETER VALVE WATER CLOSET - 1.28 GAL/FLUSH

4. 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. NOT USED
   4. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.

5. CONSTRUCTION WASTE MANAGEMENT:
   A MINIMUM OF 65% OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE SHALL BE RECYCLED AND/OR SALVAGED FOR REUSE.

   CONSTRUCTION WASTE MANAGEMENT PLAN SHALL:
   1) IDENTIFY WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL.
   2) DETERMINE OF WASTE MATERIALS WILL BE SORTED ON-SITE OR BULK MIXED.
   3) IDENTIFY DIVERSION FACILITIES WHERE COLLECTED WASTE MATERIAL WILL BE TAKEN.
   4) SPECIFY THE AMOUNT OF WASTE DIVERTED CALCULATED BY WEIGHT OR BY VOLUME.

   UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL.

6. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.
   AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY COLLECT IN THE SYSTEM.

7. 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 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 CAL-GREEN MANDATORY MEASURES

A) MINIMUM SOLAR ZONE AREA BASED ON TOTAL ROOF AREA (NON-SHADED CONDITIONS) :

1) THE SOLAR ZONE MUST HAVE A TOTAL AREA THAT IS NO LESS THAN 15 PERCENT OF THE TOTAL ROOF AREA AFTER SUBTRACTING ANY AREA OF THE ROOF THAT IS COVERED BY A SKYLIGHT.

2) THE TOTAL AREA OF THE SOLAR ZONE MAY BE COMPOSED OF MULTIPLE SUB-AREAS. NO DIMENSION OF A SUB-AREA CAN BE LESS THAN FIVE FEET, EACH SUB-AREA MUST BE AT LEAST 80 SQUARE FEET.

B) **SOLAR READY ROOF AREA REQUIREMENT PER BUILDING SIZE:**

Building size		Roof Area			minimum solar zone area required (sf)
		Building area (sf)	Max. potential overhangs (sf)	total (sf)	
12	x 40	480	220	700	105

C) MINIMUM SOLAR ZONE AREA BASED ON POTENTIAL SOLAR ZONE (SHADED CONDITIONS) :

1) THE MINIMUM REQUIRED SOLAR ZONE AREA MAY BE REDUCED IF THE BUILDING SITE IS SHADED BY OBJECTS THAT ARE NOT PART OF THE BUILDING ITSELF AND THERE IS NO UN-SHADED AREA THAT COULD ACCOMMODATE THE FULL SOLAR ZONE.

2) THE POTENTIAL SOLAR ZONE IS DEFINED AS THE TOTAL AREA ON ROOF, OVERHANG, ROOF OR OVERHANG OF A STRUCTURE WITHIN 250 FEET OF THE BUILDING, OR ON A COVERED PARKING STRUCTURE INSTALLED WITH THE BUILDING THAT HAS ANNUAL SOLAR ACCESS OF 70 PERCENT OR GREATER.

3) IF THE POTENTIAL SOLAR ZONE IS SMALLER THAN 15 PERCENT OF THE ROOF AREA OF THE BUILDING EXCLUDING ANY SKYLIGHTS, THEN THE SOLAR ZONE CAN BE REDUCED TO HALF THE AREA OF THE POTENTIAL SOLAR ZONE. IF THE ROOF IS SHADED SUCH THAT THERE IS NO POTENTIAL SOLAR ZONE AREA, THEN NO SOLAR ZONE IS REQUIRED.

D) SOLAR ZONE ORIENTATION:

1) IF THE SOLAR ZONE IS LOCATED ON A STEEP-SLOPED ROOF WITH A RATIO OF RISE TO RUN OF GREATER THAN 2:12, THEN THE ROOF MUST BE ORIENTED BETWEEN 110 DEGREES AND 270 DEGREES OF TRUE NORTH.

2) IF A SOLAR ZONE IS LOCATED ON A LOW-SLOPED ROOF WITH A RATIO OF RISE TO RUN LESS THAN 2:12, THE ORIENTATION REQUIREMENTS DO NOT APPLY.

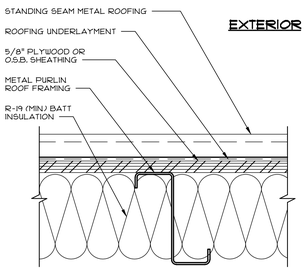
3) OBSTRUCTIONS SUCH AS VENTS, CHIMNEYS, ARCHITECTURAL FEATURES, OR ROOF MOUNTED EQUIPMENT CANNOT BE LOCATED IN THE SOLAR ZONE. THIS REQUIREMENT IS IN PLACE SO THE SOLAR ZONE REMAINS CLEAR AND OPEN FOR THE FUTURE INSTALLATION OF A SOLAR ENERGY SYSTEM.

E) ALTERNATIVE SOLAR ZONE LOCATION:

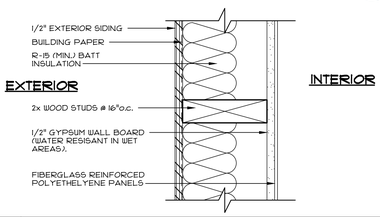
1) THE SOLAR ZONE CAN BE LOCATED AT ANY OF THE FOLLOWING LOCATIONS; ROOF OF ANOTHER STRUCTURE LOCATED WITHIN 250 FEET OF THE PRIMARY BUILDING, OVERHANG OF ANOTHER STRUCTURE WITHIN 250 FEET OF THE PRIMARY BUILDING, OR COVERED PARKING INSTALLED WITH THE BUILDING PROJECT.

F) SOLAR PANELS ARE NOT TO EXCEED 4.0 PSF AND ARE NOT TO OCCUR ON BUILDING OVERHANGS. SOLAR PANELS MUST BE INACCESSIBLE PER CBC 1607A.13.5.

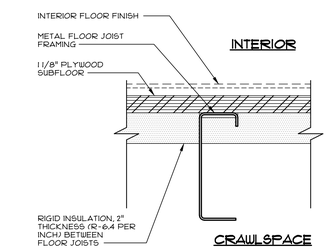
6 SOLAR READY REQUIREMENTS



1 TYP. ENVELOPE - ROOF
SCALE: 3"=1'-0"



2 TYP. ENVELOPE - WALL
SCALE: 3"=1'-0"



3 TYP. ENVELOPE - PLY. FLOOR
SCALE: 3"=1'-0"

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07/08/2021

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GREEN BUILDING STANDARDS

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KEYNOTES

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VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
GREEN BUILDING STANDARDS AND SOLAR READY REQUIREMENTS

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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.		
Project Name: 12x40 PC Restroom module (unconditioned space)	Report Page:	Page 1 of 7
Project Address: CZ 16	Date Prepared:	12/8/2020

A. GENERAL INFORMATION

01	Project Location (city)	(reference city - Blue Canyon)	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	16	05	Total Unconditioned Floor Area (ft²)	480
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☑ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☑ Relocatable ☐ Healthcare ☐ Other (write in):

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

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	Complete Building	0	Complete Building	480
☐ Altered Lighting System				
Total Area of Work (ft²)	0		480	

C. COMPLIANCE RESULTS

Table Instructions: 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.	Allowed Lighting Power per §140.6(b) (Watts)							Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	Total Allowed (Watts)	≥	Total Designed (Watts)	Adjustments PAF Control Credits §140.6(a)2 (-)	=	Total Adjusted (Watts) *Includes Adjustments	05 Must be ≥ 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned:	0				=		≥	0		=		
Unconditioned:	312				=	312	≥	196		=	196	COMPLIES

Table Continued

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: 12x40 PC Restroom module (unconditioned space)	Report Page:	Page 2 of 7
Project Address: CZ 16	Date Prepared:	12/8/2020

Controls Compliance (See Table H for Details)	COMPLIES with Exceptional Conditions
Rated Power Reduction Compliance (See Table Q 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.

Table H Indoor Lighting Controls Permit Applicant Notes:
Restrooms: Exception 4 to 130.1(d) total glazing area is less than 24 sq.ft.

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

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 Change¹	Watts per luminaire²	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector Pass	Fail
		☐	☐		Mfr. Spec²		☐	0	☐	☐
		☐	☐		Mfr. Spec²		☐	0	☐	☐
Total Designed Watts CONDITIONED SPACES:								0		

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change¹	Watts per luminaire²	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector Pass	Fail
A	2x4 LED 2GTL recessed troffer light	☐	☐	39	Mfr. Spec²	4	☐	156	☐	☐
B	2x2 LED 2GTL recessed troffer light	☐	☐	40	Mfr. Spec²	1	☐	40	☐	☐
Total Designed Watts UNCONDITIONED SPACES:								196		

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: 12x40 PC Restroom module (unconditioned space)	Report Page:	Page 3 of 7
Project Address: CZ 16	Date Prepared:	12/8/2020

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change¹	Watts per luminaire²	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector Pass	Fail

¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% 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) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)	Field Inspector Pass	Fail
		☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector Pass	Fail
Restrooms	School Building	Manual ON/ OFF	Dimmer	Occ. Sensor	Exempt*	NA	☐	☐	☐

		13
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. *EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*		Plan Sheet Showing Daylit Zones: n/a
Restrooms	*Exception 4 to 130.1(d) total glazing area is less than 24 sq.ft.*	

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: 12x40 PC Restroom module (unconditioned space)	Report Page:	Page 4 of 7
Project Address: CZ 16	Date Prepared:	12/8/2020

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate 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 Allowances / Adjustment: Area Category	PAF
				0	☐	☐
		TOTAL:		0	See Tables J or P for detail	

Unconditioned 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 Allowances / Adjustment: Area Category	PAF
Restrooms	School Building	0.65	480	312	☐	☐
		TOTAL:	480	312	See Tables J or P for detail	

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: 12x40 PC Restroom module (unconditioned space)	Report Page:	Page 5 of 7
Project Address: CZ 16	Date Prepared:	12/8/2020

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: 12x40 PC Restroom module (unconditioned space)	Report Page:	Page 6 of 7
Project Address: CZ 16	Date Prepared:	12/8/2020

○	●	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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

YES	NO	Form/Title	Field Inspector Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐
○	●	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	☐	☐

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: 12x40 PC Restroom module (unconditioned space)	Report Page:	Page 7 of 7
Project Address: CZ 16	Date Prepared:	12/8/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Luis Esquivel	Documentation Author Signature:	
Company:	Enviroplex, Inc.	Signature Date:	12/8/2020
Address:	4777 E. Carpenter Road	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Stockton, CA. 95215	Phone:	2094668000

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:	Luis Esquivel	Responsible Designer Signature:	
Company :	Enviroplex, Inc.	Date Signed:	12/8/2020
Address:	4777 E. Carpenter Road	License:	640557
City/State/Zip:	Stockton, CA. 95215	Phone:	2094668000

CYS Structural Engineers Inc.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com
07/08/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD
STOCKTON, CA. 95215
(209) 466-8000

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118743 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/29/2021

ENERGY COMPLIANCE

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ENERGY COMPLIANCE

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 CLIENT PROJ NO: R221551X01

SHEET:
EN1

PLEASE RECYCLE

Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 1 of 7)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

A. GENERAL INFORMATION

01	Project Location (city)	(reference city - Blue Canyon)	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	16			
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 - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE

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

My Project Consists of:

01		02		
☒ New Lighting System		Must Comply with Allowances from §140.7		
☐ Altered Lighting System		Is your alteration increasing the connected lighting load (Watts)?	○ Yes	○ No
03		04	05	
% of Existing Luminaires Being Altered[1]		Sum Total of Luminaires Being Added or Altered	Calculation Method	
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%				

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

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

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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 2 of 7)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "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 or §141.0(b)2L												Compliance Results		
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
0	+	---	+	---	+	---	+	26	OR	---	=	26	≥	26	COMPLIES
Cutoff Compliance (See Table G for Details)												N/A			
Controls Compliance (See Table H for Details)												COMPLIES with Exceptional Conditions			

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Registration Number: Registration Date/Time: Registration Provider: Energysoft
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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 3 of 7)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 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).

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)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
										Pass	Fail
B	(1) 13w Compact Fluorescent Twin 2 Pin	☐ Linear	13	Mfr. Spec	2	New	☐	26	NA: < 6200 lumens	☐	☐
							Total Design Watts:	26			

* 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)
[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 cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energysoft
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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 4 of 7)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

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.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
Exterior wall mount light	Photocontrol	Yes	Exempt*	☐	☐

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

Exterior wall mount light	Lamp watts less than 150

I. LIGHTING POWER ALLOWANCE (per §140.7)

	01				
This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B . 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.	☐ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
		☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)

This section does not apply to this project.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

This section does not apply to this project.

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2020-12-09 13:39:47

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 5 of 7)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

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 table includes areas using the wattage allowance per specific area from Table 140.7-B . More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		Specific Area (ft²)[1]	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Outdoor Lighting	BuildingFacade	480	0.17	81.6	B	13	2	26	26
							Total Design Watts for this Area:	26	
							Total Allowance (Watts) All Areas:		26

[1] FOOTNOTES: See Table 140.7-B for rules for calculating the specific areas (ft² for these additional lighting allowances.
[2] For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energysoft
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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 6 of 7)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

O. 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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 must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2020-12-09 13:39:47

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 7 of 7)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Esquivel	Documentation Author Signature:
Company: Enviroplex, Inc.	Signature Date: 12-9-2020
Address: 4777 E. Carpenter Road	CEA/ HERS Certification Identification (if applicable): 640557
City/State/Zip: Stockton CA 95215	Phone: 209-466-8000

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: Luis Esquivel	Responsible Designer Signature:
Company: Enviroplex, Inc.	Date Signed: 2020-12-09
Address: 4777 E. Carpenter Road	License: 640557
City/State/Zip: Stockton CA 95215	Phone: (209) 466-8000

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2020-12-09 13:39:47

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CYS Structural Engineers Inc.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com

07/08/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD
STOCKTON, CA. 95215
(209) 466-8000

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DIV. OF THE STATE ARCHITECT
APP: 02-118743 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/29/2021

ENERGY COMPLIANCE

REV / DATE:	BY:

JOB No.:	
DRAWN BY:	
DATE:	

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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LODI USD

HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ENERGY COMPLIANCE

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/23** CLIENT PROJ NO: **R221551X01**

SHEET:

EN2

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STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
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 scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions.			
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 1 of 6)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

A. GENERAL INFORMATION

01	Project Location (city)	(reference city - Blue Canyon)	02	Climate Zone	16
03	Occupancy Types Within Project (select all that apply):				
☒ Nonresidential		☐ High-Rise Residential	☐ Hotel/Motel		
☐ State Building		☐ Healthcare Facility	☐ Other (Write In)		

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 §140.5, §150.1(c)8, and §141.0(a), or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type[1,2]	System Components		
☒ New system (DHW system being installed for the first time in newly constructed building)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1]*FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*

[2] *Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.*

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 2 of 6)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

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.

E. ADDITIONAL REMARKS

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

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-12-09 13:27:22

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 3 of 6)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)8 must also be demonstrated and with §150.2 for addition and alteration scopes.

Equipment Schedule: Individual Systems

01	02	03	04	05	06
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM/ First Hour Rating (FHR)	Rated Uniform Energy Factor (UEF)	Minimum Required Uniform Energy Factor (UEF)[1]
A O Smith ELJF-10	Electric Storage	<=30	FHR >=75	0.95	0.93

[1]*FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating <6.8 kBTUH or 2 kW has been specified per §110.3(c)6

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 high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

Mandatory Pipe Insulation All Occupancies

12	☒	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
13	☒	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) and §150.0(j)3

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-12-09 13:27:22

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 4 of 6)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

TABLE 120.3-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
			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

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)8.

	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 §150.1(c)8Bii, or §150.2 for additions or alterations.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per §150.1(c)8.
06	☐	☐	☒	For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §110.12(a) per §150.2(b)1Hiii.

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 5 of 6)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/motel central hot water distribution systems to be recognized for compliance.	☐	☐
○	●	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance.	☐	☐

J.DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

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 completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
○	●	NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification	☐	☐
○	●	NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification	☐	☐

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 6 of 6)**
Project Address:	CZ 16	**Date Prepared:**	12/9/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Esquivel	Documentation Author Signature:
Company: Enviroplex, Inc.	Signature Date: 12-9-2020
Address: 4777 E. Carpenter Road	CEA/ HERS Certification Identification (if applicable): 640557
City/State/Zip: Stockton CA 95215	Phone: 209-466-8000

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: Luis Esquivel	Responsible Designer Signature:
Company: Enviroplex, Inc.	Date Signed: 2020-12-09
Address: 4777 E. Carpenter Road	License: 640557
City/State/Zip: Stockton CA 95215	Phone: (209) 466-8000

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-12-09 13:27:22

AGENCY APPROVAL:

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LODI USD

CYS Structural Engineers Inc.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com
07/08/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD
STOCKTON, CA. 95215
(209) 466-8000

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APP: 02-118743 PC
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/29/2021

HMC Architects

R221551X01

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

ENERGY COMPLIANCE

REV / DATE:	BY:

JOB No.:	
DRAWN BY:	
DATE:	

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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EN3

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ENERGY COMPLIANCE

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/23** CLIENT PROJ NO: **R221551X01**

SHEET:

EN3

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STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
This document is used to demonstrate compliance with mandatory requirements in §110.10 for newly constructed buildings which are either high-rise multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with additions to these building types which add more than 2,000 ft² of roof area. Alterations or additions of less than 2,000ft² are not required to comply with §110.10.			
Project Name:	Standard 12x40 PC	Report Page:	(Page 1 of 5)
Project Address:	CZ 16	Date Prepared:	12/9/2020

A. GENERAL INFORMATION					
01	Project Location (city)	(reference city - Blue Canyon)	04	Building Type	Building with total roof area 533 ft2
02	Climate Zone	16	05	Construction Type	New Construction
03	☐ Roof is designed for vehicle traffic, parking or for heliport				
03a	Plan sheet showing roof design for vehicle traffic, parking or heliport exception:				

B. PROJECT SCOPE		
The compliance path the project is using to comply per §110.10(b)1B is indicated below.		
My project consists of (check one):		
1		
☒	Provide Solar Ready Area no exceptions	The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.
☐	Exception to Solar Ready Area: Installed Solar Photovoltaic System	The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.
	Exception to Solar Ready Area: Installed Solar Water Heating System	The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with §150.1(c)8Biii and Reference Residential Appendix RA4, as documented in Table H.
	Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure	The project is a high-rise multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Standard 12x40 PC	Report Page:	(Page 2 of 5)
Project Address:	CZ 16	Date Prepared:	12/9/2020

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below.

Allocated Solar Zone				Installed PV System				Installed SWH System				Smart Tstat and Alternative EE Measure		
01		02		03		04		05		06		07	08	09
Required Minimum Area (ft²)	<=	Designated Area (ft²)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR	Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)				(See Table G)				(See Table H)				(See Table I)		COMPLIES
72	<=	105	OR		<=		OR		<=		OR			
A1D, AGB			Location within the construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/plumbing to the electrical service/ water heating system per §110.10(c).											COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2020-12-09 12:34:36

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Standard 12x40 PC	Report Page:	(Page 3 of 5)
Project Address:	CZ 16	Date Prepared:	12/9/2020

F. ALLOCATED SOLAR ZONE

This table is completed if the project is designating a solar zone to comply with §110.10(b)1B. New construction consider the total roof area; Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zones must also comply with fire code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.

Required Minimum Solar Zone

01	02	03	04	05	06			07	08
					Potential Solar Zone Areas: Roof areas with >= 70% Solar Access				
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylt)) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones[1]	Low-Sloped Area (<= 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft²)	Total Potential Solar Zone Area (ft²)	Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
Total New or Added Roof Area	480	0	72						72

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Main Roof	SRA	LowSlope	No	Yes	Yes	Yes	Yes	80	105	COMPLIES
								Total Designated Solar Zone Area (ft²):	105	

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Standard 12x40 PC	Report Page:	(Page 4 of 5)
Project Address:	CZ 16	Date Prepared:	12/9/2020

Interconnection Pathways	
Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).	A1D, AGB
[1]FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.	

G. PERMANENTLY INSTALLED SOLAR PHOTOVOLTAIC (PV) SYSTEM

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE

This section does not apply to this project.

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
○	●	NRCI-SPV-01-E - Must be submitted for all newly installed Photovoltaic Systems (PV) being used to comply with §110.10(b)1B for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	☐	☐
○	●	NRCI-STH-01-E - Must be submitted for all newly installed Solar Water Heating systems being used to comply with §110.10(b)1B for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to solar ready requirements.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2020-12-09 12:34:36

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Standard 12x40 PC	Report Page:	(Page 5 of 5)
Project Address:	CZ 16	Date Prepared:	12/9/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Esquivel	Documentation Author Signature:
Company: Enviroplex, Inc.	Signature Date: 12-9-2020
Address: 4777 E. Carpenter Road	CEA/ HERS Certification Identification (if applicable): 640557
City/State/Zip: Stockton CA 95215	Phone: 209-466-8000

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: Luis Esquivel	Responsible Designer Signature:
Company: Enviroplex, Inc.	Date Signed: 2020-12-09
Address: 4777 E. Carpenter Road	License: 640557
City/State/Zip: Stockton CA 95215	Phone: (209) 466-8000

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2020-12-09 12:34:36

CYS Structural Engineers Inc.
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Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com
07/08/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD
STOCKTON, CA. 95215
(209) 466-8000

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118743 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/29/2021

ENERGY COMPLIANCE

REV / DATE:	BY:

JOB No.:	
DRAWN BY:	
DATE:	

EN4

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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LODI USD

HMC Architects

R221551X01

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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ENERGY COMPLIANCE

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/23** | CLIENT PROJ NO: **R221551X01**

SHEET:
EN4

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
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, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2P for alterations..			
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 1 of 5)**
Project Address:	CZ 16	**Date Prepared:**	12/10/2020

A. GENERAL INFORMATION

01	Project Location (city)	(reference city - Blue Canyon)		02	Occupancy Types Within Project:		
☐	Office	☐ Retail	☐ Warehouse	☐	Hotel/Motel	☐ School	☒ Support Areas
☐	Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐	Healthcare Facilities	☐ Other (write in)	See Table I

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01		02	03	04	05
Electrical Service Designation/Description		Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) [2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)and (b)
Panel A		New electrical service equipment and meter	12	☐	☐
06	Demand Response Controls	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, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.			

[1]FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.
[2] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS

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

01		02		03		04	05
Service Electrical Metering §130.5(a) (See Table F)	AND	Separation for Monitoring §130.5(b) (See Table G)	AND	Voltage Drop §130.5(c) (See Table H)	AND	Controlled Receptacles §130.5(d) (See Table I)	
Yes	AND	Yes	AND	Yes	AND	Yes	COMPLIES

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-12-10 08:22:42

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 2 of 5)**
Project Address:	CZ 16	**Date Prepared:**	12/10/2020

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a)

01	02	03				04	05	
Electrical Service Designation/Description	Rating (kVA)	Required Metering Capabilities per Table 130.5-A				Location of Requirements in Construction Documents	Field Inspector	
		Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period		Pass	Fail
Panel A	12	☐	☒	☒	☐	A3	☐	☐

Registration Number: Registration Date/Time: Registration Provider: Energysoft
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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 3 of 5)**
Project Address:	CZ 16	**Date Prepared:**	12/10/2020

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Any load types that are not included in the service do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B [1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
Panel A					
Lighting including exit, egress and exterior	not required	Method 3	N/A	☐	☐
HVAC systems and components	not required	Method 3	N/A	☐	☐
Plug Loads and appliances less than 25kVA	not required	Method 3	N/A	☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

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). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii

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
Panel A	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	N/A	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*
[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-12-10 08:22:42

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 4 of 5)**
Project Address:	CZ 16	**Date Prepared:**	12/10/2020

I.CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	
Room name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
					Pass	Fail
Panel A	NA: No applicable space types on this service	Other*	☒	N/A	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

Panel A	N/A - classroom occupancy

J. 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-ELC-01-E - Must be submitted for all buildings	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

Registration Number: Registration Date/Time: Registration Provider: Energysoft
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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Standard 12x40 PC	**Report Page:**	**(Page 5 of 5)**
Project Address:	CZ 16	**Date Prepared:**	12/10/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Esquivel	Documentation Author Signature:
Company: Enviroplex, Inc.	Signature Date: 12-10-2020
Address: 4777 E. Carpenter Road	CEA/ HERS Certification Identification (if applicable): 640557
City/State/Zip: Stockton CA 95215	Phone: 209-466-8000

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: Luis Esquivel	Responsible Designer Signature:
Company: Enviroplex, Inc.	Date Signed: 2020-12-10
Address: 4777 E. Carpenter Road	License: 640557
City/State/Zip: Stockton CA 95215	Phone: (209) 466-8000

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401 Report Generated: 2020-12-10 08:22:42

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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Structural Engineers Inc.
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www.cyseng.com
07/08/2021

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSS
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/29/2021

ENERGY COMPLIANCE

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

EN5

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AGENCY APPROVAL:

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LODI USD

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2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ENERGY COMPLIANCE

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/23**
CLIENT PROJ NO: **R221551X01**

SHEET:
EN5

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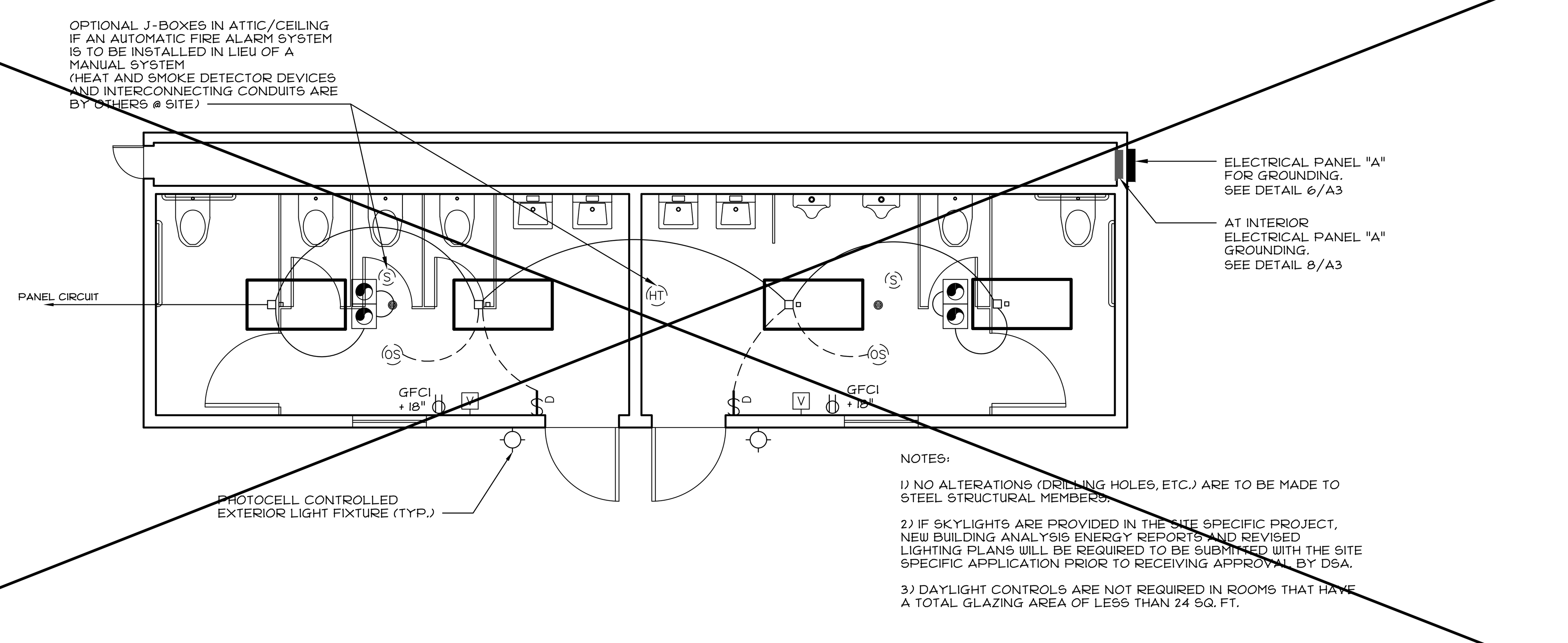


NOTES:

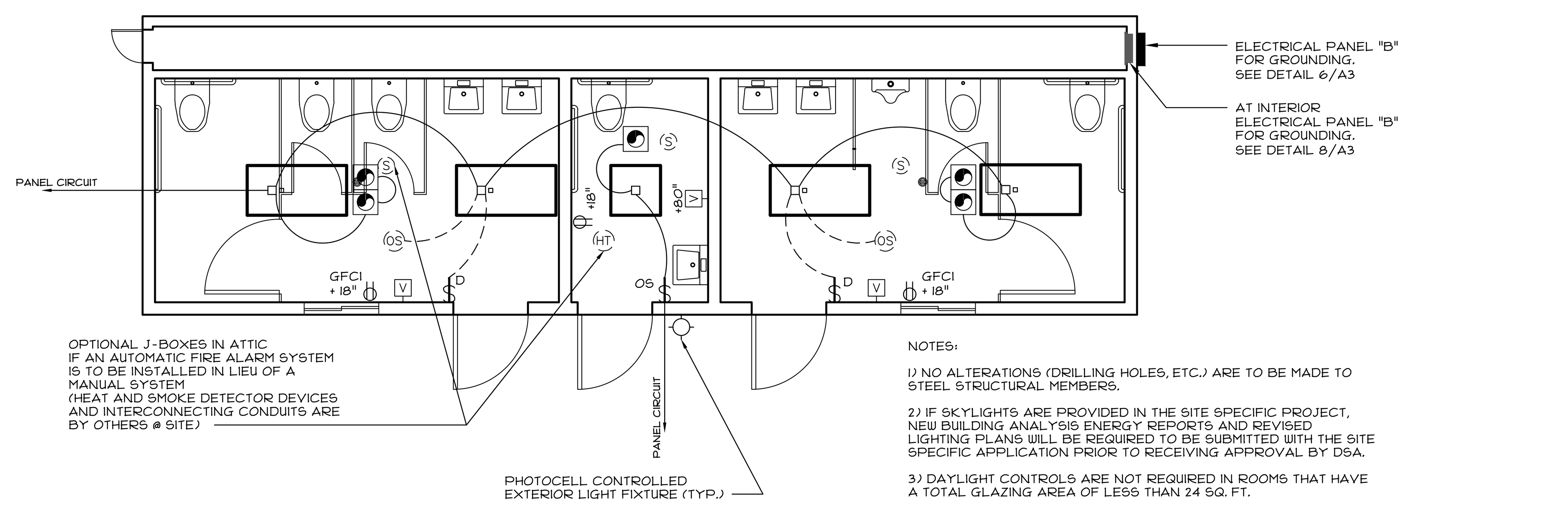
1) NO ALTERATIONS (DRILLING HOLES, ETC.) ARE TO BE MADE TO STEEL STRUCTURAL MEMBERS.

2) IF SKYLIGHTS ARE PROVIDED IN THE SITE SPECIFIC PROJECT, NEW BUILDING ANALYSIS ENERGY REPORTS AND REVISED LIGHTING PLANS WILL BE REQUIRED TO BE SUBMITTED WITH THE SITE SPECIFIC APPLICATION PRIOR TO RECEIVING APPROVAL BY DSA.

3) DAYLIGHT CONTROLS ARE NOT REQUIRED IN ROOMS THAT HAVE A TOTAL GLAZING AREA OF LESS THAN 24 SQ. FT.

1a ELECTRICAL POWER, LIGHTING & SIGNAL PLAN

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



NOTES:

1) NO ALTERATIONS (DRILLING HOLES, ETC.) ARE TO BE MADE TO STEEL STRUCTURAL MEMBERS.

2) IF SKYLIGHTS ARE PROVIDED IN THE SITE SPECIFIC PROJECT, NEW BUILDING ANALYSIS ENERGY REPORTS AND REVISED LIGHTING PLANS WILL BE REQUIRED TO BE SUBMITTED WITH THE SITE SPECIFIC APPLICATION PRIOR TO RECEIVING APPROVAL BY DSA.

3) DAYLIGHT CONTROLS ARE NOT REQUIRED IN ROOMS THAT HAVE A TOTAL GLAZING AREA OF LESS THAN 24 SQ. FT.

1b ELECTRICAL POWER, LIGHTING & SIGNAL PLAN

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

PANEL SCHEDULE: "A"
MOUNTING: SURFACE NEMA-1 VOLTS: 120/240
PANEL: 125A PHASE: 1ϕ
MAIN BREAKER: 125A WIRE: 3W

DESCRIPTION	LOAD	BRKR		MAIN 125 A B		BRKR	LOAD	DESCRIPTION
			1		2	20/1	174	LIGHTING/ FANS -A
			3		4	20/1	174	LIGHTING/ FANS -B
			5		6	20/1	1800	OUTLETS
			7		8	20/1	1800	OUTLETS
			9		10			
			11		12			

LEG A: 1974 W LEG B: 1974 W TOTAL: 3948 W AMPS: 16.5

PANEL SCHEDULE: "B"
MOUNTING: SURFACE NEMA-1 VOLTS: 120/240
PANEL: 125A PHASE: 1ϕ
MAIN BREAKER: 125A WIRE: 3W

DESCRIPTION	LOAD	BRKR		MAIN 125 A B		BRKR	LOAD	DESCRIPTION
			1		2	20/1	229	LIGHTING/ FANS -A
			3		4	20/1	155	LIGHTING/ FANS -B
			5		6	20/1	1800	OUTLETS
			7		8	20/1	3600	OUTLETS
			9		10			
			11		12			

LEG A: 2029 W LEG B: 3755 W TOTAL: 5784 W AMPS: 24.1

7 TYP. INTERIOR PANEL SCHEDULE

RCP — RELAY CONTROLLER PANEL: NEMA 1 PLENUM RATED, SURFACE MOUNTED DIMMING PANEL (RELAYS, DIMMING OUTPUTS, PHOTOCELL INPUTS, & DRY CONTACT INPUTS).

LIGHT FIXTURE: 2'x4' LED RECESSED TROFFER TYPE

LIGHT FIXTURE: 2'x2' LED RECESSED TROFFER TYPE

OCCUPANCY SENSOR: LOW VOLTAGE, CEILING MOUNTED, OPTIONAL - WALL MOUNTED.

DIMMING SWITCH: LOW VOLTAGE, TWO BUTTON, DIGITAL SWITCH W/ MANUAL ON/OFF & DIMMING CONTROL. (@+48" MAX A.F.F. TO TOP OF BOX).

NON-DIMMING SWITCH: LOW VOLTAGE, TWO BUTTON, DIGITAL SWITCH W/ MANUAL ON/OFF (@+48" MAX A.F.F. TO TOP OF BOX).

SWITCH WITH OCCUPANCY SENSOR: IF SPACE IS LESS THAN 100 S.F. OR THE LIGHTING LOAD DOES NOT EXCEED 0.5 WATTS PER S.F. THEN NON-DIMMING SWITCH MAY BE USED

EXTERIOR LIGHT: COMPACT FLUORESCENT, 13 WATT, WALL PACK. "LITHONIA" TWS (OR EQUAL) MOUNTED @ +96" A.F.F. (U.O.N.)

12 LIGHTING LEGEND

1. ELECTRICAL PANEL: FLUSH INTERIOR MOUNTED OR SURFACE MOUNT EXTERIOR W/ HINGED DOORS AND INDEXED CARD HOLDERS. CIRCUIT BREAKER(S) WILL HAVE AN APPROPRIATE UL. LABEL LISTING.
2. RECEPTACLES: "LEVITON", "HUBBEL" (OR EQUAL)
3. ELECTRIC METALLIC TUBING: COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
4. CONDUCTORS: COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6 TYPE THW FOR LARGER SIZES. MINIMUM SIZE #12. LIGHTING & OUTLETS USE MINIMUM SIZE #12, SIZE HVAC WIRING PER LOAD.

3 ELECTRICAL SPECIFICATIONS

1. FIRE ALARM: FURNISHED BY OWNER AND SHALL CONFORM TO THE CALIFORNIA BUILDING CODE SECTION 907.2.3 AND CALIFORNIA ELECTRICAL CODE ARTICLE 760.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY D.S.A.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE PROJECT INSPECTOR.
4. ALARMS/EMERGENCY WARNING SYSTEMS/ACCESSIBILITY. IF EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE ALARMS EMERGENCY VOICE ALARM COMMUNICATION SYSTEM AND VISUAL ALARMS COMPLYING WITH NFPA 72 EDITION 2016 AND CBC EDITION 2019 CHAPTER 9, SECTIONS 907.5.2, 907.5.2.1 AND 907.5.2.2 (AND EMERGENCY VOICE ALARM COMMUNICATION SYSTEM)

2 FIRE PROTECTION

DUPLEX RECEPTACLE @+15" MIN. A.F.F. (TO BOTTOM OF BOX) OR 18" A.F.F. TO CENTERLINE OF BOX. (UNLESS OTHERWISE NOTED)

J — JUNCTION BOX (SIZE AND INSTALLATION HEIGHT AS NOTED)

H — WATER PROOF BELL BOX UNDER EAVE @+9'-4" (U.O.N.) FOR FUTURE FIRE ALARM AUDIBLE WARNING DEVICE SEE NOTE NO. 1 OF FIRE PROTECTION

P — JUNCTION BOX @+48" A.F.F. (TO TOP OF BOX) FOR FUTURE FIRE ALARM PULL STATION - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE

V — JUNCTION BOX @+90" (U.O.N.) FOR FUTURE FIRE ALARM HORN/STROBE DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE

I — JUNCTION BOX @+48" A.F.F. (TO TOP OF BOX) (U.O.N.) FOR FUTURE INTERCOM

CEILING MOUNT EXHAUST FAN (CFM PER SHEET A2)

HT — OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE HEAT DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS @ SITE)

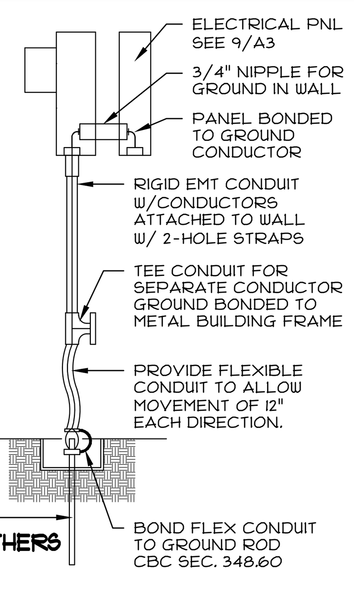
S — OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE SMOKE DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS @ SITE)

4 ELECTRICAL LEGEND

1. CERTIFIED LUMINARIES/BALLASTS.
2. INDEPENDENT CONTROL WITHIN ENCLOSED AREAS.
3. MANUAL SWITCHING READILY ACCESSIBLE.
4. REDUCTION OF LIGHTING LOAD TO AT LEAST 50% VIA (2) SWITCHES OR (1) MULTI-LEVEL SWITCH.
5. NOT USED.
6. TANDEM WIRING OF (4) LAMP LUMINARIES.

5 ELECTRICAL ENERGY COMPLIANCE

NOTES:
METER AND GROUND ARE NOT PART OF THIS CONTRACT TO BE PROVIDED BY OTHERS
1. SIZE OF CONDUCTORS SHALL COMPLY W/CEC TABLE 250.66
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL OF BUILDING FRAME (CEC. 250.52) IN ADDITION TO THE DETAIL SHOWN BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (C.E.C. 250.52)
3. ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER, (BOLTING ONLY IS NOT ACCEPTABLE BONDING.)
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND ROD GREATER THAN 6'-0" AWAY (C.E.C. 250.53) ONCE THE SECOND GROUND ROD IS INSTALLED, ADDITIONAL RESISTANCE TESTING IS NOT REQUIRED.
5. WHERE MODULAR BUILDINGS ARE GROUPED TOGETHER, A GROUND ROD MAY BE INSTALLED AT THE END BUILDINGS AND A GROUND RING MAY BE INSTALLED BETWEEN THEM. EACH INTERMEDIATE MODULAR BUILDING MAY BE BONDED TO THAT GROUND RING. WHERE THIS METHOD IS USED, GROUND RESISTANCE TESTING SHALL NOT BE REQUIRED.
6. WHERE MODULAR BUILDINGS ARE INSTALLED ON CONCRETE FOUNDATIONS, A UFER GROUND SHALL BE INSTALLED IN THE FOOTING PER (C.E.C. 250.52 (A)(3).
7. OTHER GROUNDING METHODS IDENTIFIED IN C.E.C.250 SHALL BE ACCEPTABLE MEANS TO ACHIEVE ADEQUATE GROUNDING OF METAL BUILDINGS IN COMPLIANCE WITH THE ABOVE.

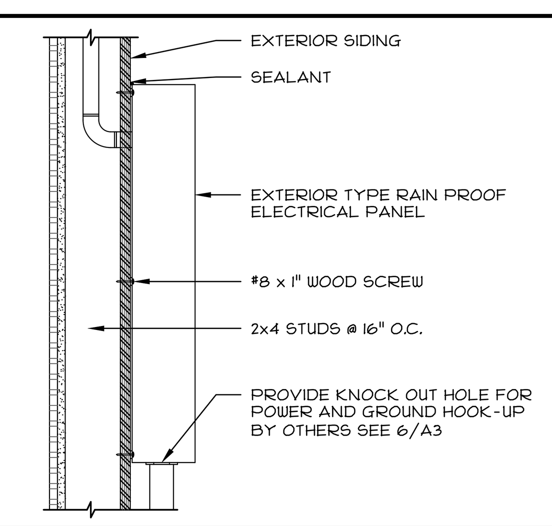


5/8"ϕ x 8'0" LONG, COPPER CLAD GROUND ROD OR OTHER ELECTRODE AS SPECIFIED IN CALIFORNIA ELECTRICAL CODE, 250.52(A)(5)

NOTE: GROUND TO BE PROVIDED BY OTHERS

GROUNDING TEST ARE TO BE OBSERVED AND REPORTED BY THE INSPECTOR OF RECORD.

8 ELECTRICAL GROUND



10 ELECTRICAL PANEL INSTALLATION

SCALE: 1"=1'-0"

1. LIGHTING FIXTURE: 2' x 4' LED RECESSED TROFFER TYPE FIXTURES, W/ LOW VOLTAGE DIMMING CONTROL SIGNAL, MAXIMUM 6000 LUMENS, MAX 59W. "LITHONIA" 2GTL (OR EQUAL).

1.1 LIGHTING FIXTURE: 2' x 2' LED RECESSED TROFFER TYPE FIXTURES, W/ LOW VOLTAGE DIMMING CONTROL SIGNAL, MAXIMUM 4000 LUMENS, MAX 39W. "LITHONIA" 2GTL (OR EQUAL).

2. DAYLIGHT CONTROL PHOTOCELL: ON/OFF AND AUTOMATIC DIMMING CONTROL, CEILING MOUNT, LOW VOLTAGE. "nLIGHT" nCM ADC OR nCM ADCX(OR EQUAL).

3. LIGHT SWITCHES: ON/OFF & ON/OFF PLUS DIMMING, PUSH BUTTON, LOW VOLTAGE. "nLIGHT" nCM ADC OR nCM ADCX(OR EQUAL).

4. OCCUPANCY SENSOR: LOW VOLTAGE, WALL MOUNT OR CEILING MOUNT.

5. RELAY CONTROL PANEL: RELAY DIMMING PANEL, NEMA 1 PLENUM RATED, SURFACE MOUNTED. W/ 30A RELAYS, LOW VOLTAGE DIMMING OUTPUTS, PHOTOCELL OUTPUTS, DRY CONTACT INPUTS, AND OPTIONAL VOLTAGE BARRIER FOR EM CIRCUITS. "ACUITY BRANDS" (OR EQUAL)

6. ILLUMINATED EXIT SIGNS: IF REQUIRED BY CODE, SHALL BE PROVIDED IN COMPLIANCE W/ C.B.C. 1013 & 1006.

7. NOT USED

8. SKYLIGHTS (IF OPTION IS INCLUDED IN SITE SPECIFIC PROJECT): GENERAL LIGHTING FIXTURES PLACED IN THE PRIMARY DAYLIT ZONE OF SKYLIGHTS SHALL BE CONTROLLED IN RESPONSE TO AVAILABLE DAYLIGHTING. REFER TO SHEET A5.1 FOR SKYLIGHT FRAMING AND DETAILS.

9. ACCESSIBLE, INDEPENDENT SWITCHING OR A CONTROL DEVICE SHALL BE INCLUDED FOR ALL AREAS ENCLOSED BY CEILING HEIGHT PARTITIONS.

10. ALL OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL OR OUTDOOR ASTRONOMICAL TIME SWITCH CONTROL.

11. FOR NON-POLE MOUNTED LUMINARIES OVER 30 WATTS EACH: OUTDOOR LIGHTING WHERE BOTTOM OF LUMINAIRE IS MOUNTED 24 FEET OR LESS ABOVE THE GROUND SHALL BE CONTROLLED BY MOTION SENSORS OR OTHER CONTROLS CAPABLE OF REDUCING THE LIGHTING POWER OF EACH LUMINAIRE BY 40 TO 80% IN RESPONSE TO THE AREA BEING VACATED.

11 LIGHTING SPECIFICATIONS

NOTES:
1. METER AND GROUND ARE NOT PART OF THIS CONTRACT TO BE PROVIDED BY OTHERS
2. SIZE OF CONDUCTORS SHALL COMPLY W/CEC TABLE 250.66
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL OF BUILDING FRAME (CEC. 250.52) IN ADDITION TO THE DETAIL SHOWN BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (C.E.C. 250.52)
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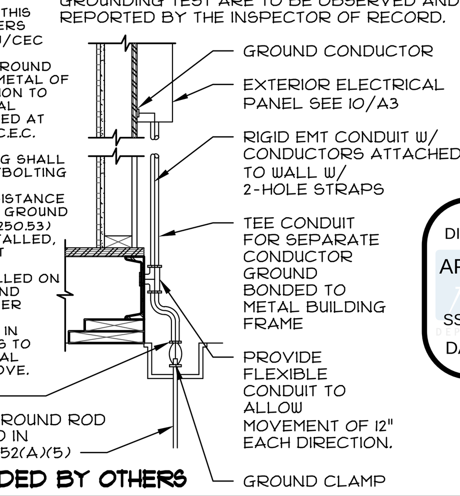
GROUNDING TEST ARE TO BE OBSERVED AND REPORTED BY THE INSPECTOR OF RECORD.

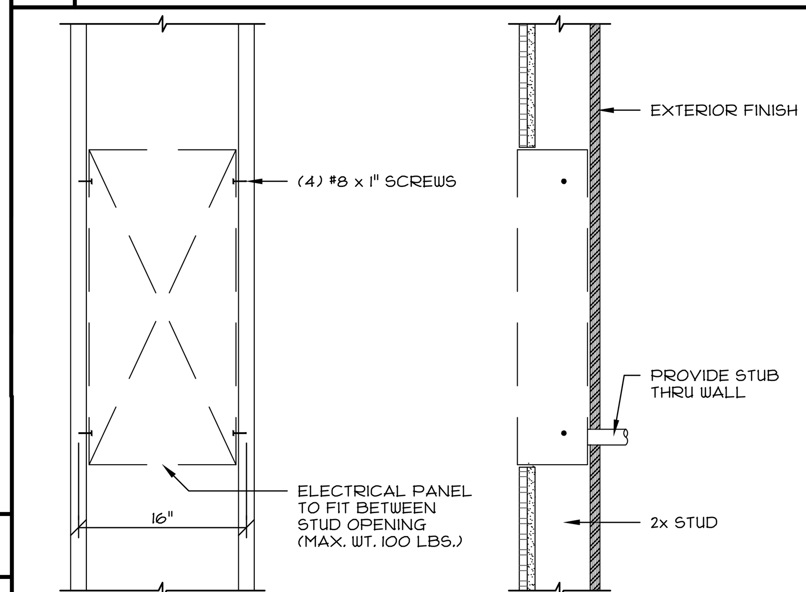


GROUNDING BUSHING W/JUMPER

5/8"ϕ x 8'0" LONG, COPPER CLAD GROUND ROD OR OTHER ELECTRODE AS SPECIFIED IN CALIFORNIA ELECTRICAL CODE, 250.52(A)(5)

NOTE:GROUND TO BE PROVIDED BY OTHERS

6 ELECTRICAL GROUND



9 ELECTRICAL PANEL INSTALLATION

SCALE: 1"=1'-0"

PRE-CHECK (PC) DOCUMENT
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07/08/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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ELECTRICAL POWER PLAN, SIGNAL PLAN, LIGHTING PLAN, DETAILS, ELECTRICAL NOTES

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

A3

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HMC Architects
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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com
LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ELECTRICAL POWER PLAN, SIGNAL PLAN, LIGHTING PLAN, DETAILS, ELECTRICAL NOTES
BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 CLIENT PROJ NO: R221551X01

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A3

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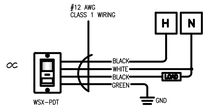
SMALL OFFICE ROOM LIGHTING CONTROL WITH WALL OCC. SENSOR

BILL OF MATERIAL	
PRODUCT #	DESCRIPTION
nWSX PDT LV DX WH	WALL SWITCH DECORATOR OCCUPANCY SENSOR - DUAL TECHNOLOGY (PDT), LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL

AcuityBrands.

LC & D - ROAM - SENSOR SWITCH - SYNERGY

JANITOR ROOM, SINGLE USE RESTROOMS LIGHTING 120V LINE VOLTAGE OCC. SENSOR

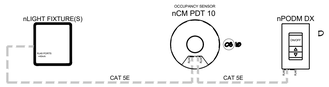


BILL OF MATERIAL	
PRODUCT #	DESCRIPTION
WSX-PDT	ON/OFF SWITCH WITH BUILT IN DUAL TECH OCCUPANCY SENSOR

AcuityBrands.

LC & D - ROAM - SENSOR SWITCH - SYNERGY

MULTI-PURPOSE LIGHTING CONTROL DIAGRAM WITH CEILING OCC. SENSOR

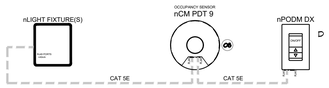


BILL OF MATERIAL	
PRODUCT #	DESCRIPTION
nPODM DX	ON/OFF TOGGLE WITH DIMMING
nCM PDT 10	EXTENDED RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT)

AcuityBrands.

LC & D - ROAM - SENSOR SWITCH - SYNERGY

BREAK ROOM, BIG OFFICE, TRAINING, CONF. RM LIGHTING CONTROL DIAGRAM WITH CEILING OCC. SENSOR



BILL OF MATERIAL	
PRODUCT #	DESCRIPTION
nPODM DX	ON/OFF TOGGLE WITH DIMMING
nCM PDT 9	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT)

AcuityBrands.

LC & D - ROAM - SENSOR SWITCH - SYNERGY

LIGHTS
- ALL LIGHTS ARE DIMMABLE.
- FIXTURES ARE CONTROLLED BASED ON POWER PACK LINE VOLTAGE AND 0-10V WIRING.
- MAXIMUM LEVEL CAN BE TASK TUNED TO ANY PERCENTAGE VIA PROGRAMMING.

OCCUPANCY
- PARTIAL-ON OCCUPANCY SENSORS AUTOMATICALLY ACTIVATE BETWEEN 50-70% OF CONTROLLED LIGHTING POWER OR FIXTURES MUST BE TURNED ON MANUALLY.
- FIXTURES AUTOMATICALLY TURN OFF WHEN ROOM BECOMES VACANT.

DAYLIGHT
- NOT REQUIRED IF ROOM HAS <24 FT2 OF GLAZING OR LIGHTING LOAD < 120W IN THE SKYLIT AND THE SIDELIT DAYLIT ZONE.
- SMOOTH CONTINUOUS DIMMING.
- CUSTOM GROUPING OF FIXTURES INTO SEPARATE DAYLIGHT ZONES (MAX. NUMBER OF ZONES = NUMBER OF FIXTURES).

MANUAL
- ON/OFF & RAISE/LOWER CONTROL OF FIXTURES.
- TEACHER STATION WITH 4 PRESET SCENES.

ADDITIONAL OPTIONS:
- ROOM CAN BE CONNECTED TO NLIGHT BACKBONE TO ENABLE NETWORK CONTROL, TIME SCHEDULES AND AUTOMATED DEMAND RESPONSE (OPENADR 2.0A).
- HVAC CONTROL AVAILABLE THROUGH SYSTEM-WIDE BACNET®INTERFACE OPTION ON THE ECLYPSE® CONTROLLER.
- WIRELESS FIXTURE EMBEDDED CONTROL AND OCCUPANCY/DAYLIGHTING SENSOR OPTIONS AVAILABLE. PLEASE SEE THE FIXTURE SPECIFICATION SHEET.

1 LIGHTING CONTROLS - SEQUENCE OF OPERATION DIAGRAMS

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
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07/08/2021

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER ERNEST ROSSI
No. 52030
STATE OF CALIFORNIA

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DATE: 07/29/2021

LIGHTING NOTES & DIAGRAMS

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DATE:	

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JEFFREY ALAN GRAY
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

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FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
LIGHTING NOTES AND DIAGRAMS

BID SET

CONSTRUCTION DOCUMENTS

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DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

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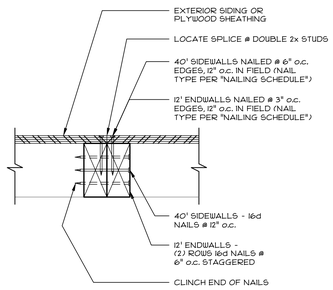

1 SIDING SPLICE DETAIL
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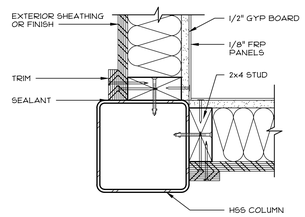
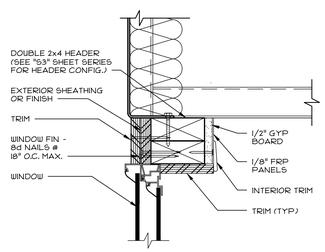
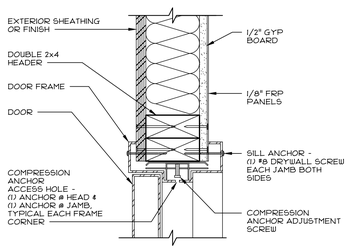


2 SECTION - 6x6 COLUMN @ CORNER
SCALE: 3"=1'-0"



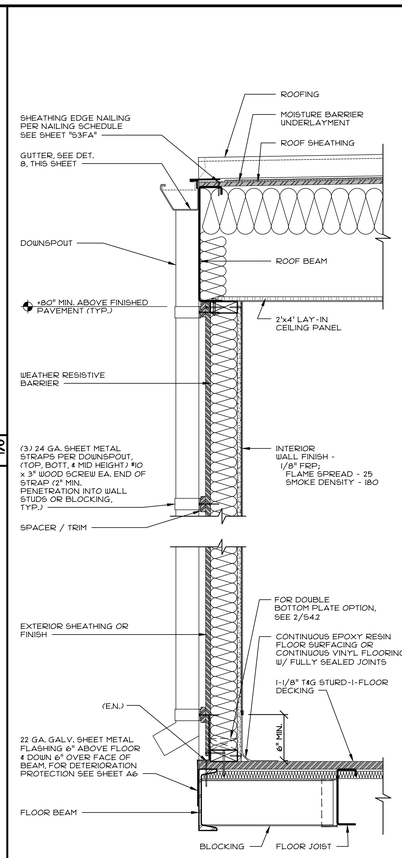
SECTION @ WINDOW JAMB IS SIMILAR

3 SECTION - WINDOW HEADER
SCALE: 3"=1'-0"

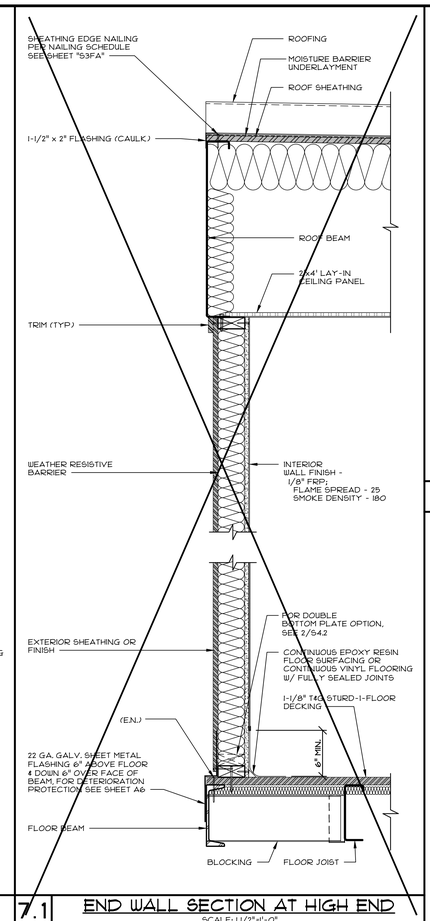


SECTION @ DOOR JAMB IS SIMILAR

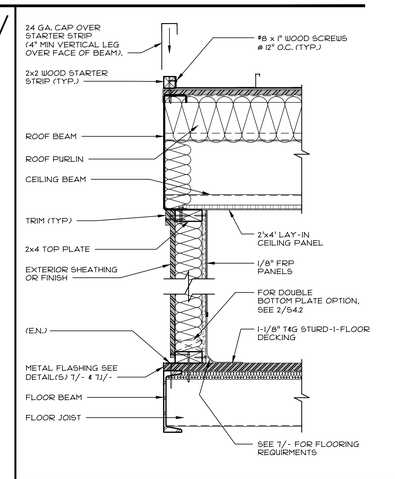
4 SECTION - DOOR HEADER
SCALE: 3"=1'-0"



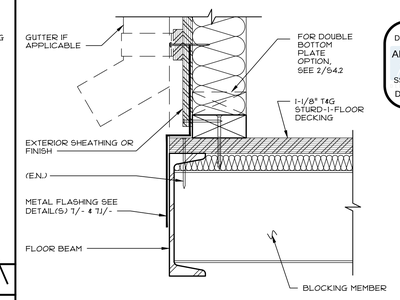
7 END WALL SECTION
SCALE: 1 1/2"=1'-0"



7.1 END WALL SECTION AT HIGH END
SCALE: 1 1/2"=1'-0"



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

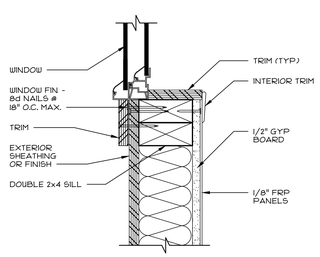


ENDWALL IS SHOWN, SIDEWALL IS SIMILAR.

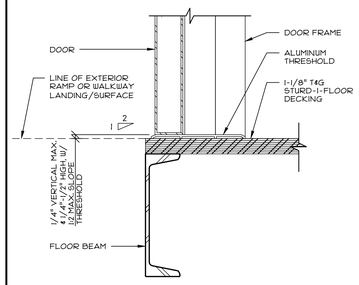
10 PLUMBING CHASE @ PLY. FLOOR OPT.
SCALE: 3"=1'-0"

NOTES:

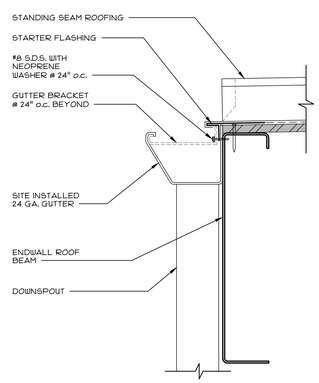
1. ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.
2. FOR FASTENER SCHEDULE, SEE SHEET S3FA



5 SECTION - WINDOW SILL
SCALE: 3"=1'-0"



6 SECTION - DOOR THRESHOLD
SCALE: 3"=1'-0"



8 TYP. GUTTER INSTALLATION
SCALE: 3"=1'-0"

12 SHEET NOTES

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07/08/2021

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SECTIONS AND DETAILS WITHOUT OVERHANG 2x4 EXTERIOR WALLS (NON-RATED)

REV / DATE:	BY:

JOB No.:
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DATE:

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KEYNOTES

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LODI, CA 95240

PROJECT:
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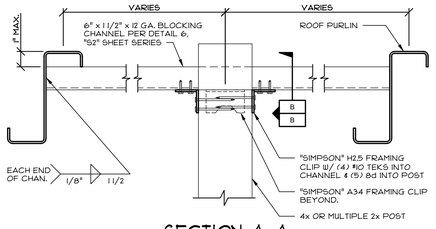
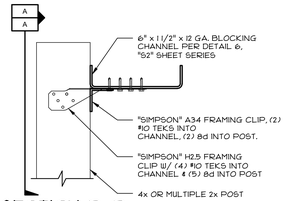


SECTION A-A

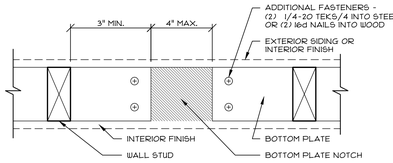
NOTE:
1) HALF WALL HEIGHT SHALL BE 4'-0" MAX.
2) HALF WALL SHALL HAVE 2x4 MIN. STUDS SPACED AT 16" O.C.
3) HALF WALL SHALL BE FRAMED WITH DOUBLE TOP PLATE W/O SPLICE AND "SIMPSON" A34 EA. END.
4) FULL HEIGHT POST SHALL OCCUR NO MORE THAN 12'-0" BETWEEN POSTS OR NEAREST CONNECTING WALL.

NOTE:
SEE DETAILS 3 AND 10 THIS SHEET FOR INFORMATION NOT SHOWN

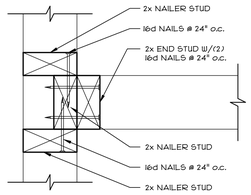


SECTION B-B

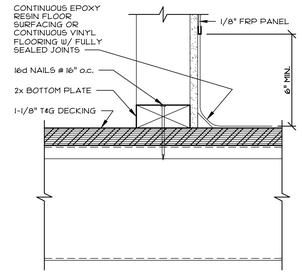
11 TOP CONNECTION - FULL HT. POST FOR HALF WALLS
SCALE: 3"=1'-0"



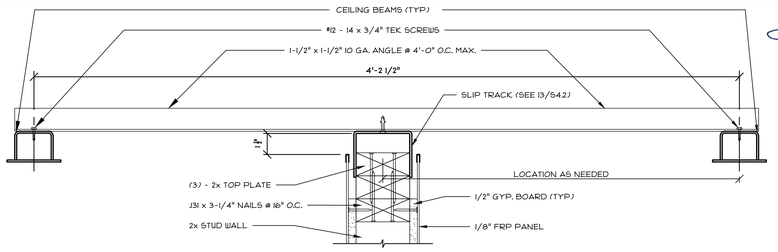
1 ALLOWABLE BOTTOM PLATE NOTCH
SCALE: 3"=1'-0"



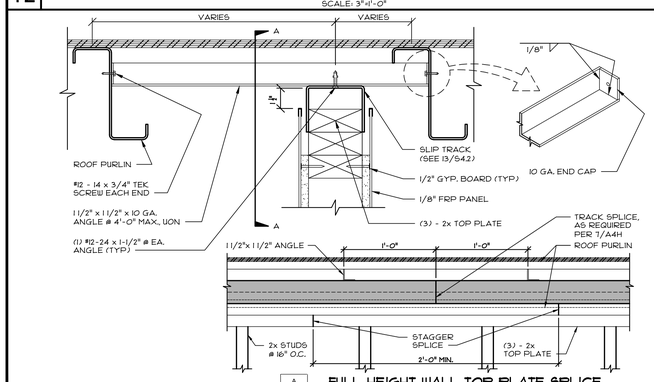
4 PERPENDICULAR WALL CONNECTION
SCALE: 3"=1'-0"



3 PLUMBING CHASE BOTT. PL. TO FLOOR
SCALE: 3"=1'-0"

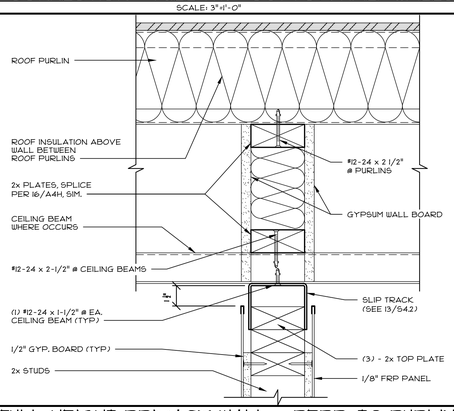


5 TOP PLATE ATTACHMENT BETWEEN CEILING BEAMS
SCALE: 3"=1'-0"



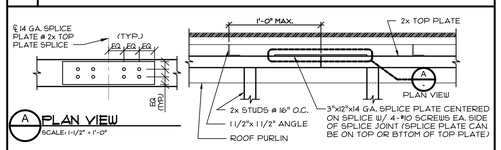
A FULL HEIGHT WALL TOP PLATE SPLICE
A SCALE: 1-1/2" = 1'-0"

13 FULL HEIGHT PRIVACY WALL - PARALLEL TO PURLINS
SCALE: 3"=1'-0"



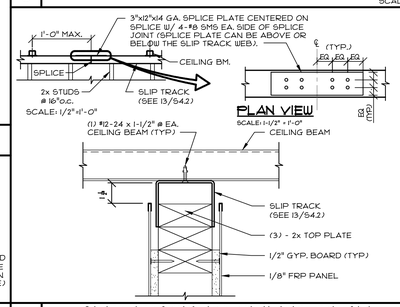
12 FULL HEIGHT PRIVACY WALL - PERP. TO PURLINS
SCALE: 3"=1'-0"

6

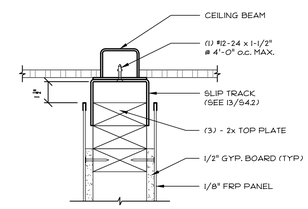


A PLAN VIEW
SCALE: 1-1/2" = 1'-0"

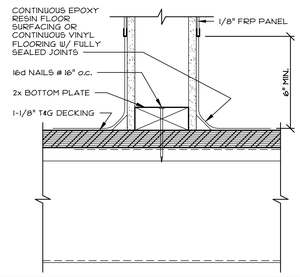
16 FULL HEIGHT WALL TOP PLATE SPLICE
SCALE: 11/2"=1'-0"



7 SLIP TRACK TO CEILING BEAM
SCALE: 3"=1'-0"



8 TOP PLATE TO CEILING BEAM
SCALE: 3"=1'-0"



10 BOTTOM PLATE TO FLOOR
SCALE: 3"=1'-0"

NOTES:
1. ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.
2. FOR FASTENER SCHEDULE, SEE SHEET S3FA
3. 2x4, OR 2x6 FRAMING MAY BE USED

15 SHEET NOTES

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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07/08/2021

REGISTERED PROFESSIONAL ENGINEER
STEVEN ERNEST CYS
No. S2030
STATE OF CALIFORNIA

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DATE: 07/29/2021

INTERIOR WALL CONNECTION DETAILS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

A4H

AGENCY APPROVAL:

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HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
INTERIOR WALL CONNECTION DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/23** CLIENT PROJ NO: **R221551X01**

SHEET:

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THE LINE SHOWN ABOVE IS EXACTLY 1" WHEN PLOTTED AT THIS SHEET'S ORIGINAL PAGE SIZE

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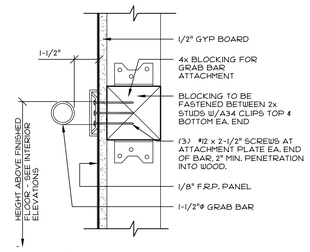
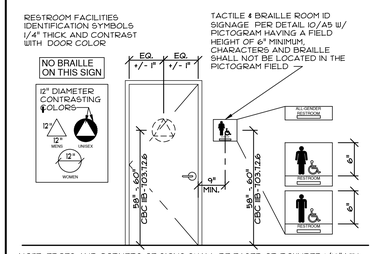


NOTE:
GRAB BAR SHALL BE CAPABLE OF SUPPORTING A VERTICAL OR HORIZONTAL 250 POUND LOAD

3 GRAB BAR BLOCKING DETAIL
SCALE: 3"=1'-0"



NOTE: EDGES AND CORNERS OF SIGNS SHALL BE EASED OR ROUNDED 1/16" MIN. CHAMFERED 1/8" MAXIMUM. VERTICES SHALL BE RADIUSED BETWEEN 1/8" - 1/4".

SEE 10/A5 FOR CHARACTER DEPTH, CASE, STYLE, PROPORTIONS, HEIGHT, STROKE THICKNESS, FINISH, CHARACTER SPACING, LINE SPACING, FORMAT, BRAILLE, POSITION, INSTALLATION HEIGHT ABOVE FINISHED FLOOR OR GROUND, AND LOCATION

6" INTERNATIONAL SYMBOL OF ACCESSIBILITY

INTERNATIONAL SYMBOL OF ACCESSIBILITY: SHALL COMPLY WITH FIGURE 11B-703.7.2.1 THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 15090 IN FEDERAL STANDARDS 595C.

FIGURE 11B-703.7.2.1

5 RESTROOM DOOR & ROOM IDENTIFICATION SIGNAGE
SCALE: 3/8"=1'-0"

NAMES, NUMBERS, OR LETTERS ONLY
THE MOST LOGICAL IDENTIFICATION SYSTEM FOR ROOMS OR OFFICES IS TO USE NUMBERS, LETTERS, OR COMBINATIONS OF NUMBERS AND LETTERS WHICH CAN THEN BE ARRANGED IN LOGICAL ORDER FOR EASY WAYFINDING.

12B Braille | LIBRARY Braille | EXIT Braille | 5/8"-2" | 3/8"-1/2" | 3/8" MIN.

Mary Jones
PRINCIPAL Braille

CHANGEABLE INFORMATION MAY BE INCLUDED ON A REMOVABLE INSERT

RAISED CHARACTERS: DEPTH
SHALL BE 1/32" MINIMUM ABOVE BACKGROUND.

CASE
CHARACTERS SHALL BE UPPER CASE.

STYLE
SHALL BE SANS SERIF AND SHALL NOT BE OBLIQUE, SCRIPT, DECORATIVE OR OTHER UNUSUAL FORMS.

PROPORTIONS
WIDTH OF UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF UPPERCASE "I".

HEIGHT
MEASURED VERTICALLY FROM BASELINE OF THE CHARACTER SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE UPPERCASE LETTER "I".

STROKE THICKNESS
THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER

FINISH
CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND.

CHARACTER SPACING
SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSET POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS AND 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" MINIMUM.

LINE SPACING
SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% MINIMUM AND 170% MAX. OF THE RAISED CHARACTER HEIGHT.

FORMAT
TEXT SHALL BE HORIZONTAL

BRAILLE:
SHALL BE CONTRACTED (GRADE 2) AND DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE 11B-703.3.1. THE INDICATION OF AN UPPER-CASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF A SENTENCE, PROPER NOUNS, AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.

POSITION
SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" MIN AND 1/2" MAX FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

INSTALLATION:
HEIGHT ABOVE FINISHED FLOOR OR GROUND
CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN ABOVE THE FINISHED FLOOR OR GROUND SURFACE MEASURED FROM BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAX ABOVE THE FINISHED FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

LOCATION
SIGNS SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE THE PROVIDED WITH TWO ACTIVE LEAFS THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF A DOUBLE DOOR, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN BY 18" MIN CENTERED ON THE TACTILE CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

NOTE
ROOM IDENTIFICATION SIGNAGE AND INTERNATIONAL SYMBOLS OF ACCESSIBILITY SIGNAGE SHALL BE PROVIDED BY SCHOOL DISTRICT / OWNER AT SITE. SIGNAGE SHALL BE INSTALLED AT LOCATIONS REQUIRED BY CODE USING THE ABOVE GUIDELINES.

SIGNAGE SHALL BE FIELD INSPECTED AFTER INSTALLATION AND APPROVED BY THE ENFORCING AGENCY PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY (11B-703.1.1.2).

10 TYP. TACTILE ROOM ID. SIGNAGE

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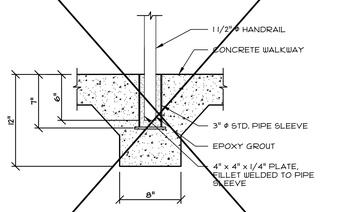
1



NOTE: DRINKING FOUNTAIN HANDRAILS SHALL BE PROVIDED AND INSTALLED BY OTHERS ON-SITE.

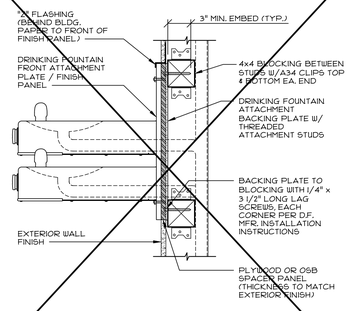
6 HANDRAIL VERTICAL TO CONC.
SCALE: 1 1/2" = 1'-0"

2

7

8

9



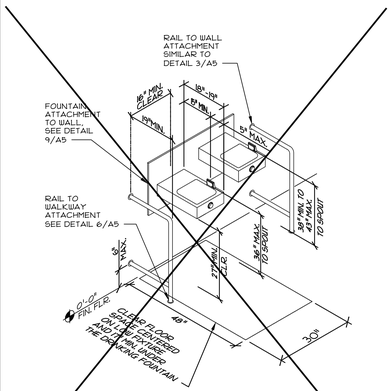
9 D.F. TO WALL ATTACHMENT
SCALE: NTS

NOTE:
2x4, OR 2x6 FRAMING MAY BE USED

15 SHEET NOTE

12

13



NOTE: DRINKING FOUNTAIN RAILS SHALL BE PROVIDED AND INSTALLED BY OTHERS ON-SITE. RAILS SHALL PROJECT HORIZONTALLY AT LEAST AS FAR AS THE DRINKING FOUNTAIN.

14 DRINKING FOUNTAIN WING WALLS
SCALE: 1/2" = 1'-0"

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07/08/2021

REGISTERED PROFESSIONAL ENGINEER
No. S2030
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STATE OF CALIFORNIA

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2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

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VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
MISCELLANEOUS DETAILS

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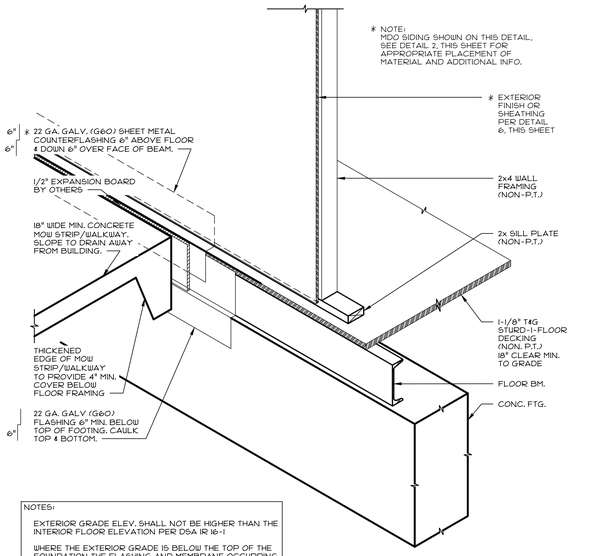
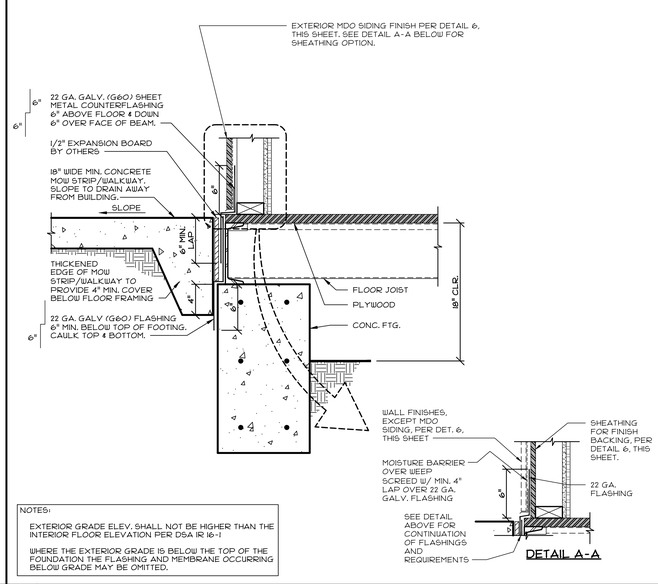
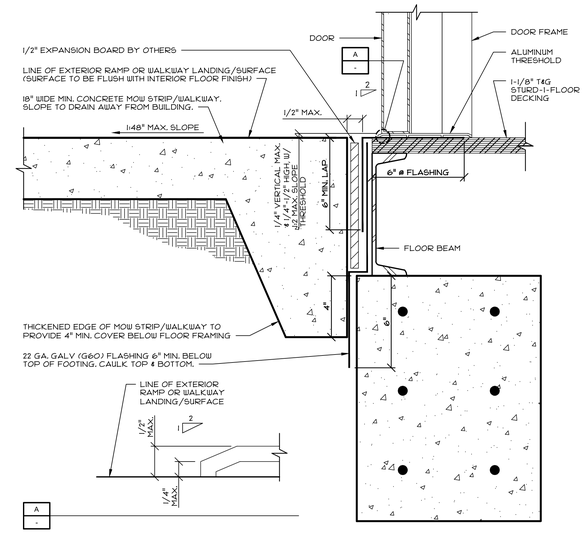


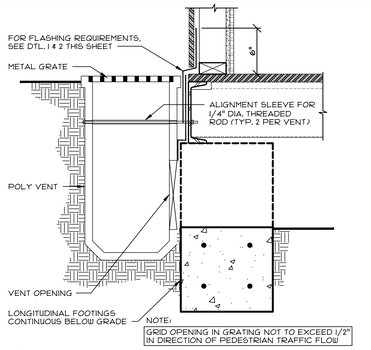
1 DETERIORATION PROTECTION ISOMETRIC VIEW
SCALE: 1"=1'-0"



2 DETERIORATION PROTECTION SECTION VIEW
SCALE: 1 1/2"=1'-0"



3 DETERIORATION PROTECTION DOOR THRESHOLD
SCALE: 3"=1'-0"

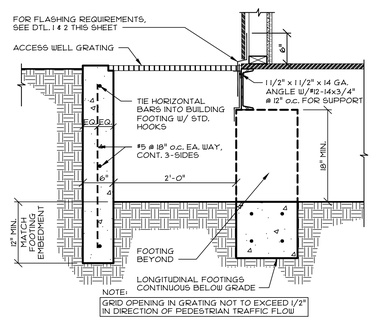


4 POLYVENT DETAIL
SCALE: 1 1/2"=1'-0"

5

FINISH	APPLICATION (RECESSED 2x4 STUDS)
MDO SIDING - LP SMARTSIDE STRAND SUBSTRATE PANEL SIDING, ESR 1301 (OR EQUAL.)	NON-PRESERVATIVE TREATED WOOD SIDING PANELS OVER MOISTURE BARRIER OVER WEEP SCREED (OR SIMILAR REGLET) AS REQUIRED FOR FINISH SYSTEM
CEMENT BOARD, LAP, OR WOOD CLAD SIDING	FINISH SIDING PANELS OVER MOISTURE BARRIER OVER WEEP SCREED (OR SIMILAR REGLET) OVER NON-PRESERVATIVE TREATED OSB/PLYWOOD SHEATHING AS BACKING FOR FINISH SYSTEM.
STUCC-O-FLEX	N/A
3-COAT STUCCO	N/A

6 EXTERIOR FINISH REQ.



8 ACCESS / VENT WELL
SCALE: 1"=1'-0"

9

FLASHING INSTALLATION REQUIREMENTS

- ALL SURFACE VOIDS GREATER THAN 1/8" IN WIDTH SHALL BE FILLED WITH SEALANT PRIOR TO INSTALLATION.
- WHERE A HORIZONTAL LAP OCCURS IN THE GALVANIZED FLASHING THE JOINTS SHALL BE LAPPED 2 1/2" MINIMUM

REPAIR REQUIREMENTS

WHERE DAMAGE OCCURS, THE REPAIRS SHALL BE AS FOLLOWS:

1. WHERE THE DAMAGE MEASURES LESS THAN 1/2" IN ANY DIRECTION THE PUNCTURE SHALL BE SEALED WITH MASTIC.
2. WHERE THE DAMAGE MEASURES MORE THAN 1/2", BUT LESS THAN 2", IN ANY DIRECTION A PATCH SHALL BE INSTALLED OVER THE DAMAGE USING THE SAME FLASHING MATERIAL. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.
3. WHERE THE DAMAGE MEASURES MORE THAN 2" IN ANY DIRECTION THE DAMAGED PORTION SHALL BE REMOVED AND A PIECE OF FLASHING SHALL BE INSTALLED. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.

INSPECTION REQUIREMENTS

THE IN-PLANT INSPECTOR SHALL OBSERVE THE INSTALLATION OF FACTORY INSTALLED PORTION OF THE FLASHING. THE FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE FLASHING SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE.

THE ON-SITE INSPECTOR SHALL OBSERVE THE INSTALLATION OF THE SITE INSTALLED PORTION OF THE FLASHING. THE FACTORY INSTALLED FLASHING SHOULD BE INVESTIGATED TO DETERMINE IF ANY DAMAGE OCCURRED DURING MODULE SHIPMENT/INSTALLATION PRIOR TO PROCEEDING WITH THE SITE INSTALLED FLASHING PLACEMENT. THE FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE FLASHING SHALL BE LAPPED ONTO THE FOUNDATION WALL AS INDICATED WITHIN THIS DRAWING PACKAGE. THE GALVANIZED FLASHING SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE AND SHALL CONTINUE BELOW THE BOTTOM OF THE FLATWORK OR MOW STRIP AS INDICATED WITHIN THIS DRAWING PACKAGE.

11 DETERIORATION PROTECTION REQ.

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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DIV. OF THE STATE ARCHITECT
APP: 02-118743 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/29/2021

CYS STRUCTURAL ENGINEERS INC.
2455 NATOMAS PARK DRIVE, SUITE 650
SACRAMENTO, CA 95833
(916) 929-0207 (916) 929-0368 FAX
WWW.CYSSTRUCTURAL.COM

07/08/2021

REGISTERED PROFESSIONAL ENGINEER
STEVEN J. GRAGERT
No. S2030
STATE OF CALIFORNIA

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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD
STOCKTON, CA 95215
(209) 466-8000

DETERIORATION PROTECTION (2x4 EXTERIOR WALLS) (WOOD FLOORS) (BUILDING UNDER 2160 S.F.)

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

A6

AGENCY APPROVAL:

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LODI USD

HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
DETERIORATION PROTECTION (2X4 EXTERIOR WALLS) (WOOD FLOORS) (BUILDING UNDER 2160 S.F.)

BID SET

CONSTRUCTION DOCUMENTS
A NO.: 02-121807
DATE: 10/26/23
CLIENT PROJ NO: R221551X01
SHEET:

A6

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THE LINE SHOWN ABOVE IS EXACTLY 1" WHEN PLOTTED AT THIS SHEET'S ORIGINAL PAGE SIZE

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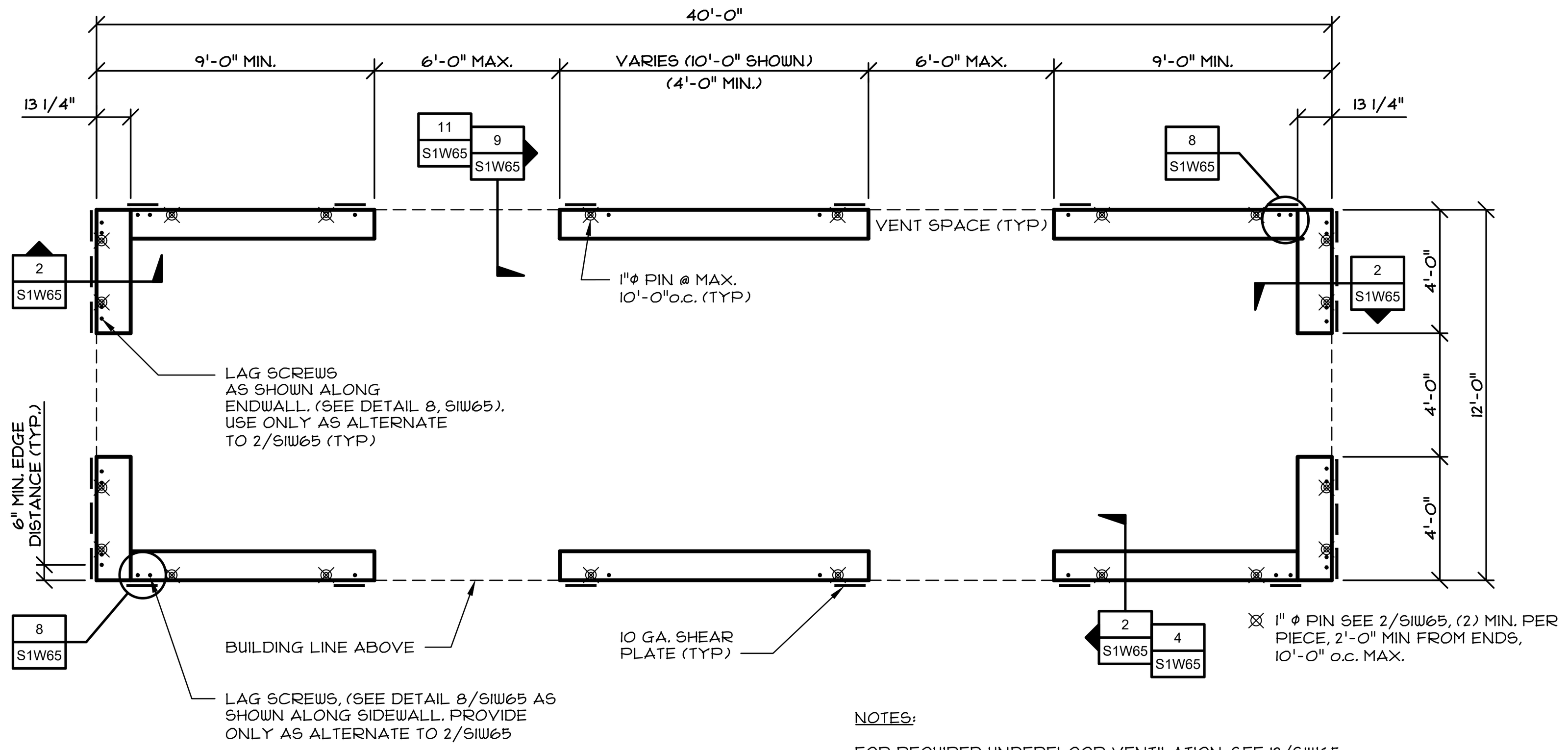
PERIMETER - SHEAR PLATES		
	ANCHOR TYPE	MIN. QUANTITY
ALONG EACH PERIMETER LONGITUDINAL SIDEWALL LINE. LOCATIONS PER PLAN.	SHEAR PLATE PER DETAIL 10/S1W65	6
ALONG EACH PERIMETER TRANSVERSE ENDWALL LINE. LOCATIONS PER PLAN.	SHEAR PLATE PER DETAIL 10/S1W65	6

PERIMETER (ALTERNATE TO SHEAR PLATES)		
	ANCHOR TYPE	MIN. QUANTITY
ALONG EACH PERIMETER LONGITUDINAL SIDEWALL LINE. LOCATIONS PER PLAN.	3/4"ϕ x 5" LAG SCREW (SEE DETAIL 8/S1W65)	8
ALONG EACH PERIMETER TRANSVERSE ENDWALL LINE. LOCATIONS PER PLAN.	3/4"ϕ x 5" LAG SCREW (SEE DETAIL 8/S1W65)	8

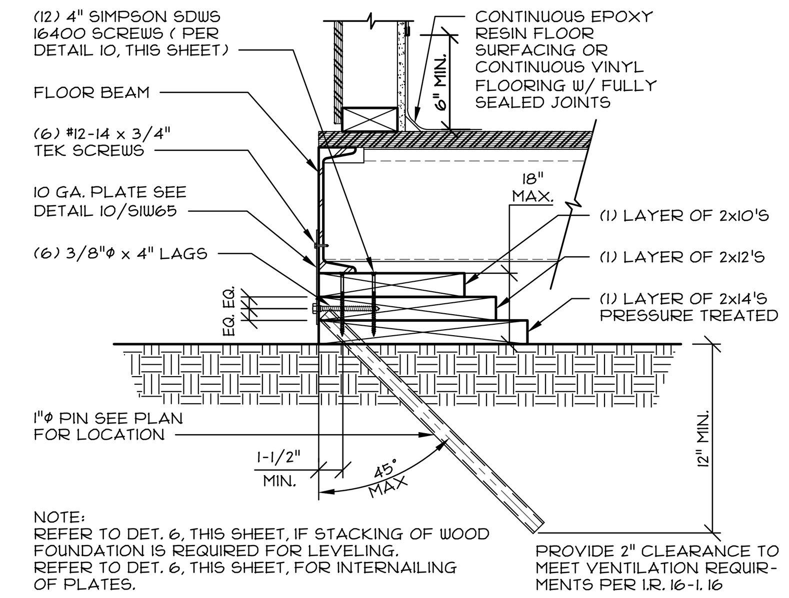


NOTES:

FOR REQUIRED UNDERFLOOR VENTILATION, SEE 12/S1W65

PER PC-6, SEC 1.13.2 DRAINAGE SHALL BE PROVIDED TO PREVENT WATER FROM PONDING BENEATH BUILDINGS. IF THE BUILDING IS PLACED ON RAISED WOOD FOUNDATIONS, SUCH AS WOOD SLEEPERS PLACED ON GROUND OR ASPHALT THAT IS PLANAR (I.E., NOT LOWERED BELOW ADJACENT GRADE), SLOPED DRAINAGE IS NOT REQUIRED AWAY FROM THE BUILDING IF THERE IS ADEQUATE SLOPE AT THE SITE TO PREVENT WATER FROM PONDING BENEATH AND IMMEDIATELY ADJACENT TO BUILDINGS. FOR OTHER CONDITIONS, SUCH AS LOWERED BASIN UNDER BUILDING OR CONCRETE FOUNDATIONS, SLOPED DRAINAGE SHALL BE PROVIDED AWAY FROM THE BUILDING IN ACCORDANCE WITH CBC SECTION 1804A.4.

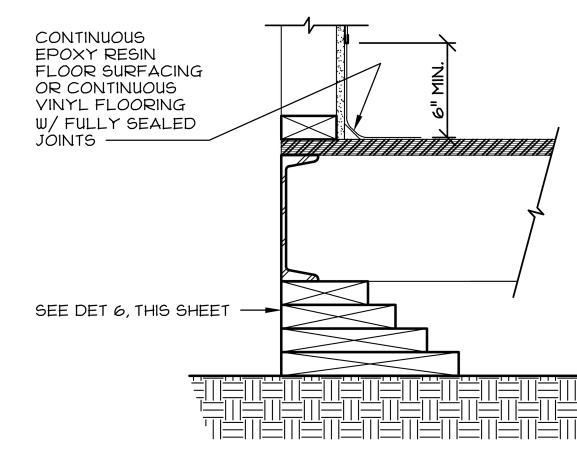
1 "65 P.S.F." WOOD FOUNDATION PLAN
SCALE: 1/4"=1'-0"



NOTE:
REFER TO DET. 6, THIS SHEET, IF STACKING OF WOOD FOUNDATION IS REQUIRED FOR LEVELING.
REFER TO DET. 6, THIS SHEET, FOR INTERNAILING OF PLATES.

PROVIDE 2" CLEARANCE TO MEET VENTILATION REQUIREMENTS PER I.R. 16-1.16

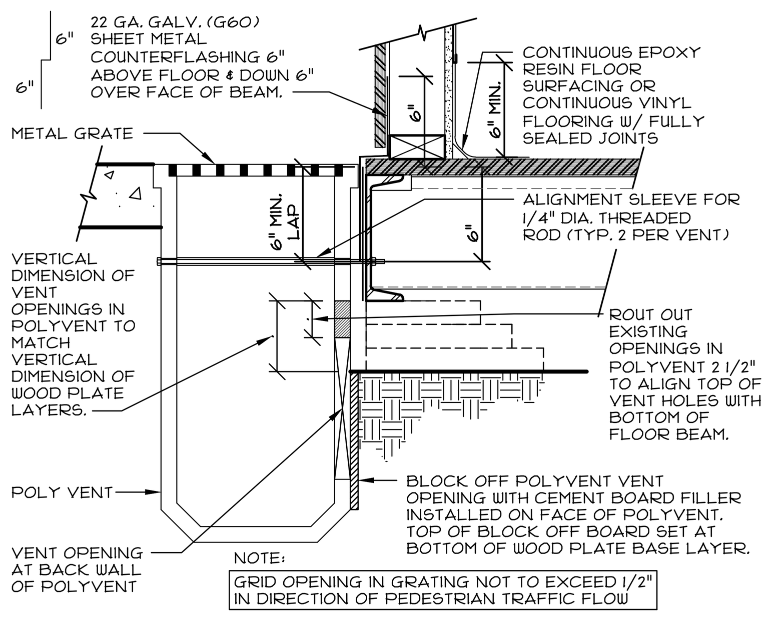
2 PERIMETER PIER DETAIL
SCALE: 1 1/2"=1'-0"



NOTE: THIS DETAIL FOR REFERENCE ONLY SEE DETAIL 6, THIS SHEET, FOR NAILING DETAIL

SEE DET. 2, THIS SHEET, U.O.N.

4 PERIMETER PIER STACKING DETAIL
SCALE: 1 1/2"=1'-0"

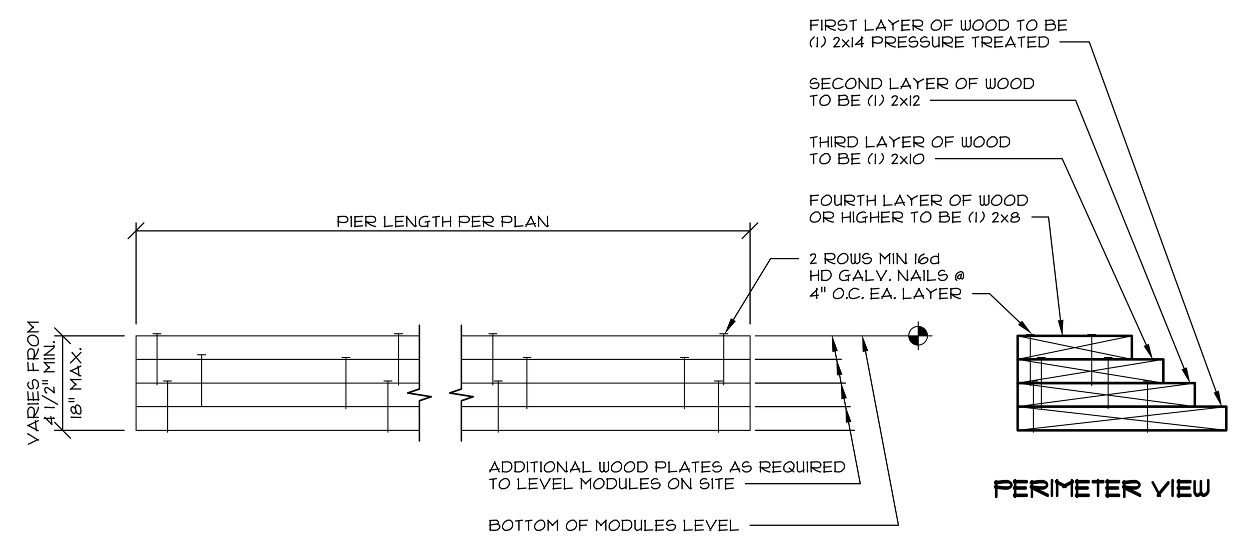


NOTE:
GRID OPENING IN GRATING NOT TO EXCEED 1/2" IN DIRECTION OF PEDESTRIAN TRAFFIC FLOW

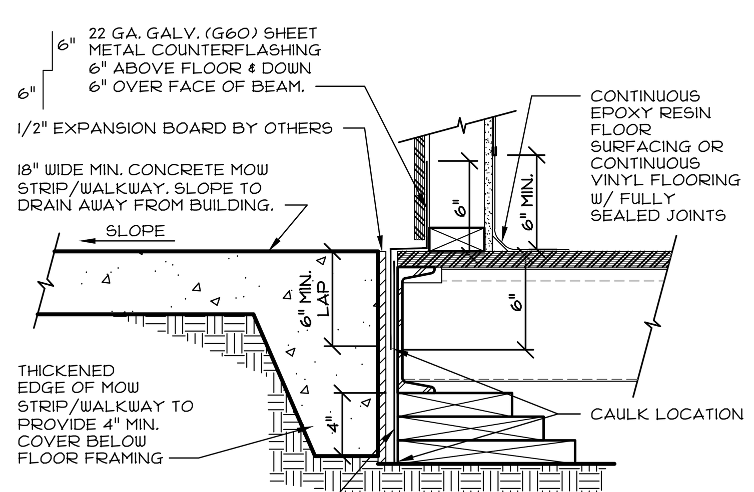
11 UNDERFLOOR VENT - RECESSED
SCALE: 1 1/2"=1'-0"

1. BOTTOM LAYER OF PIERS SHALL BE PRESSURE TREATED COASTAL DOUGLAS FIR.
   SUBSEQUENT LAYERS NOT IN CONTACT WITH SOIL SHALL BE UNTREATED HEM FIR No. 3 OR BETTER.
   FOUNDATION GRADE WOOD IN CONTACT WITH SOIL SHALL BE PRESERVATIVE TREATED AND SHALL BE STAMPED "FOR GROUND CONTACT". PRESERVATIVE TREATED MATERIAL SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING, "THE MATERIAL IN THIS UNIT WAS TREATED PER CALIFORNIA BUILDING CODE, SECTION 2303.1.9". EACH PIECE PRESSURE TREATED MATERIAL SHALL BE STAMPED WITH THE APPROPRIATE STAMP.
2. ALL LAG SCREWS AND NAILS SHALL BE "HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER (CBC 2304.10.5).
   COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153.
3. SHIM PIERS AS REQUIRED WITH APA RATED PLYWOOD MADE WITH EXTERIOR GLUE. SHIMS SHALL BE CONTINUOUS ACROSS LENGTH OF PIERS AS FIELD CONDITIONS ALLOW. PLYWOOD SHIMS SHALL NOT BE IN DIRECT CONTACT WITH THE SOIL.
4. SOIL BEARING PRESSURE IS ASSUMED AT 1,000 P.S.F.
5. FOUNDATION SHOWN ON (3) LAYERS OF WOOD MINIMUM. ANY ADDITIONAL LAYERS OF WOOD ARE TO BE STACKED AS PER STACKING DETAILS 4 & 6 ON THIS SHEET.
6. VENTILATION TO MEET REQUIREMENTS PER I.R. 16-1.16. PROVIDE 1 SQ. FT. OF NET FREE VENTILATION AREA FOR EACH 150 SQ. FT.
   VENT OPENINGS FOR WOOD PLATE FOUNDATIONS SHALL BE FULLY COVERED WITH HARDWARE CLOTH OF 0.035" WIRE OR HEAVIER WITH THE LEAST DIMENSION NOT GREATER THAN 1/4".
7. TREATED WOOD PLATES TO HAVE A MIN. SPECIFIC GRAVITY OF 0.43.
8. 1" DIAMETER PIN IS TO BE 1" STANDARD WEIGHT PIPE, HOT DIPPED GALVANIZED PER DSA I.R. 16-1.16, ITEM #4.
9. ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON STEEL WIRE NAILS COMPLYING WITH CBC SEC 2303.6.

WOOD NOTES



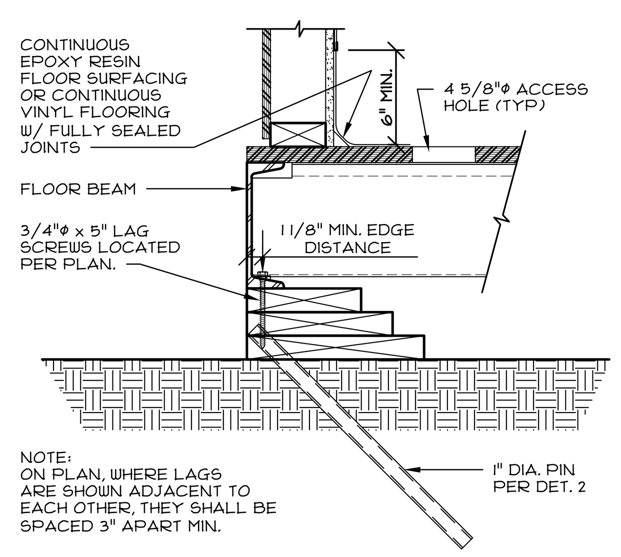
6 INTER-NAILING OF WOOD PIERS
SCALE: 1 1/2"=1'-0"



RECESSED FLOOR CONDITION REQUIRES SITE SPECIFIC VENTILATION OPENING PLAN AND VENT DETAIL PER 12 ON THIS SHEET TO DEMONSTRATE COMPLIANCE WITH 2019 CBC AND DSA IR PC-6.

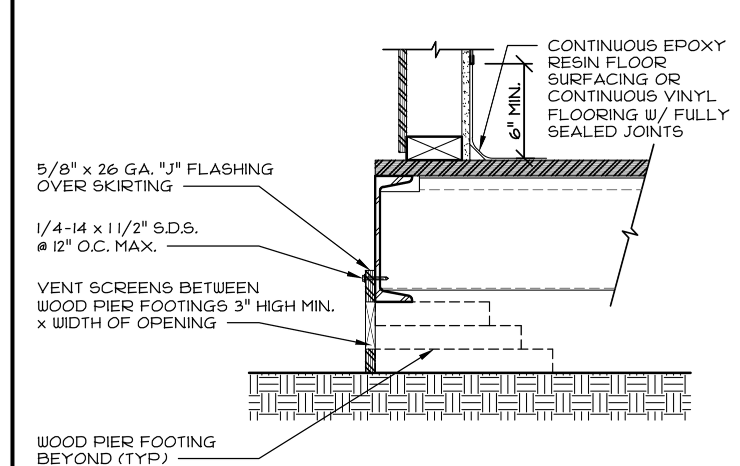
THIS DETAIL IS ONLY ALLOWED FOR BUILDINGS WITH A FLOOR AREA LESS THAN 2160 SQURE FT.

7 PERIMETER FLASHING - RECESSED
SCALE: 1 1/2"=1'-0"

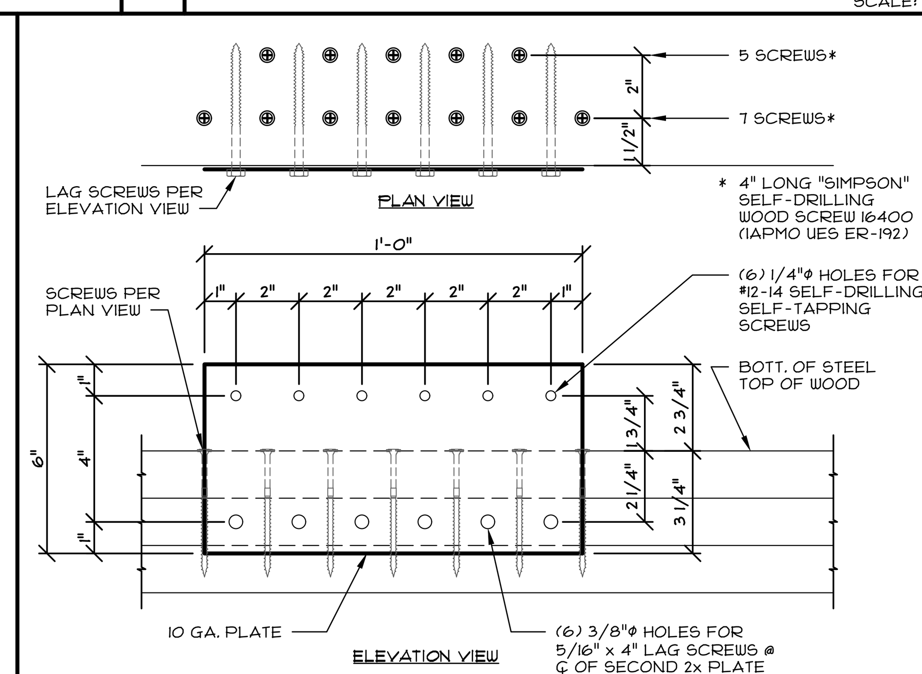


NOTE:
ON PLAN, WHERE LAGS ARE SHOWN ADJACENT TO EACH OTHER, THEY SHALL BE SPACED 3" APART MIN.

8 ALTERNATE PERIMETER DETAIL
SCALE: 1 1/2"=1'-0"



9 PERIMETER SKIRTING DETAIL
SCALE: 1 1/2"=1'-0"



10 SHEAR PLATE DETAIL
SCALE: 3"=1'-0"

NO. OF MODULES	1
EFFECTIVE NET AIR FLOW AREA (SQ/FT.)	3.20

NOTE:
1) THE ACTUAL LOCATIONS AND SIZES OF UNDER FLOOR VENTILATION OPENINGS SHALL BE SHOWN ON THE FOUNDATION PLAN, OR FLOOR PLAN OF THE SITE SPECIFIC PROJECT.
2) VENTILATION OPENINGS SHALL BE FULLY COVERED WITH HARDWARE CLOTH OF 0.035 WIRE OR HEAVIER, EXTRUDED LOAD BEARING VENTS, OR CAST IRON GRILLES OR GRATINGS. THE LEAST DIMENSION IN THE VENT COVERING SHALL NOT BE GREATER THAN 1/4".

12 MIN. UNDERFLOOR VENTILATION REQ.

FOR USE:
1) 20 PSF ROOF LIVE LOAD W/ 65 psf FLOOR LL.
2) ALL ROOF OPTIONS.
3) FOR ALLOWABLE EXTERIOR FINISHES, SEE "OPTION COMBINATION TABLE" SHEET A0.
4) PLYWOOD FLOORS ONLY.

PRE-CHECK (PC) DOCUMENT
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(916) 920-2020 (916) 920-1356 Fax
www.cyseng.com
07/08/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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DATE: 07/29/2021

65 P.S.F. WOOD FOUNDATION PLAN, PIER DETAILS, NOTES

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

S1W65

AGENCY APPROVAL:

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HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
65 P.S.F. WOOD FOUNDATION PLAN, PIER DETAILS, NOTES

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CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

S1W65

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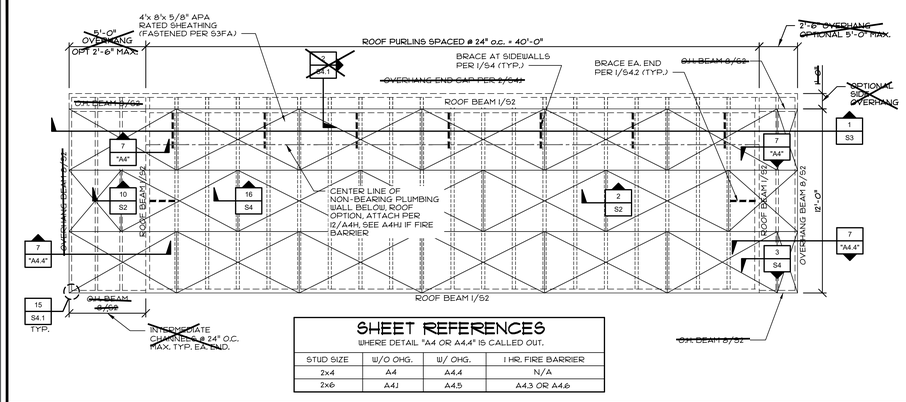
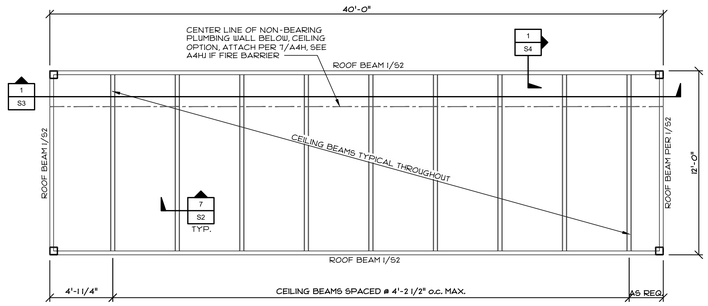
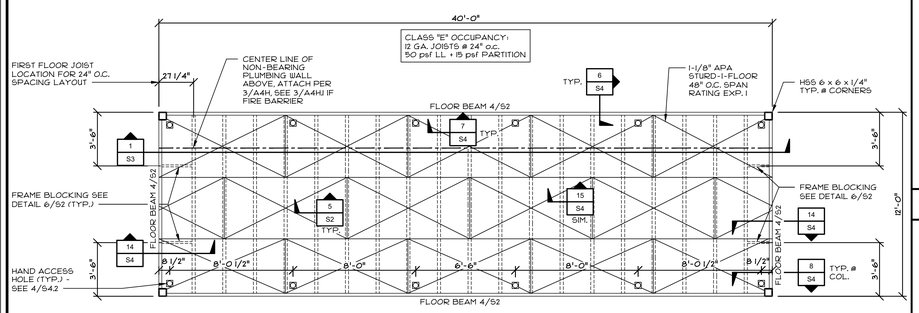


SHEET REFERENCES			
WHERE DETAIL "A4 OR A4.4" IS CALLED OUT.			
STUD SIZE	W/O OHG.	W/ OHG.	1 HR. FIRE BARRIER
2x4	A4	A4.4	N/A
2x6	A4.1	A4.5	A4.3 OR A4.6

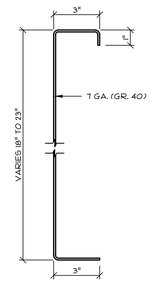
13 ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



14 CEILING FRAMING PLAN
SCALE: 1/4"=1'-0"

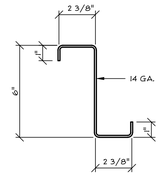


15 FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"



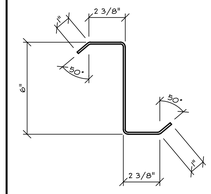
EFFECTIVE SECTION PROPERTIES		
	18"	23"
A (GROSS)	4.32 in²	5.22 in²
Ix min.	163.74 in⁴	292.77 in⁴
Sx min.	17.15 in³	23.24 in³

1 ROOF BEAM SECTION
SCALE: 3"=1'-0"



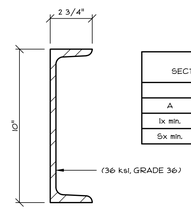
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.81 in²
Ix min.	4.83 in⁴
Sx min.	1.61 in³

2 ROOF PURLIN SECT.
SCALE: 3"=1'-0"



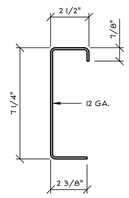
(ROOF) EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.886 in²
Ix min.	5.06 in⁴
Sx min.	1.68T in³
THK.	14 GA.

3 ALT. ROOF PURLIN
SCALE: 3"=1'-0"



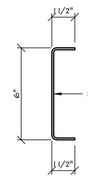
EFFECTIVE SECTION PROPERTIES	
	C 10x20
A	5.88 in²
Ix min.	78.9 in⁴
Sx min.	15.8 in³

4 FLOOR BEAM SECTION
SCALE: 3"=1'-0"



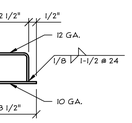
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.26 in²
Ix min.	9.68 in⁴
Sx min.	2.53 in³

5 FLOOR JOIST SECTION
SCALE: 3"=1'-0"



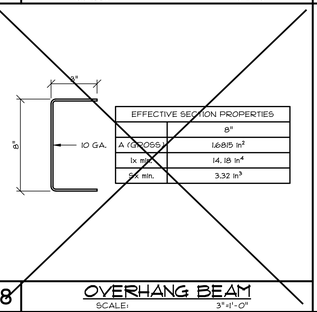
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	.88 in²
Ix min.	4.14 in⁴
Sx min.	1.38 in³

6 FRAME BLOCKING SECTION
SCALE: 3"=1'-0"



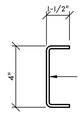
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.05 in²
Ix min.	.055 in⁴
Iy min.	1.08 in⁴
Sx min.	0.529 in³
Sy min.	0.611 in³

7 CEILING BEAM SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
	8"
A (GROSS)	1.685 in²
Ix min.	14.18 in⁴
Sx min.	3.32 in³

8 OVERHANG BEAM
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.15 in²
Ix min.	2.52 in⁴
Sx min.	1.26 in³

10 INTERMEDIATE CHANNELS
SCALE: 3"=1'-0"

9

11

1. ALL LIGHT GAGE STEEL SHALL BE ASTM A1011 GRADE 36. UNLESS OTHERWISE NOTED
2. STRUCTURAL STEEL TUBING SHALL BE ASTM A500 GRADE C Fy=50
3. ALL STRUCTURAL STEEL PLATES, ANGLES, CHANNELS, BARS & MISC. SHAPES SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED.
4. ALL MACHINE BOLTS SHALL BE ASTM A307.
5. WELDING SHALL BE DONE PER AWS D 1.8 - SECTION 6.3 AND PER CBC SECTION 2212.A.2.3. WELD FILLER METALS SHALL BE CAPABLE OF PRODUCING WELD METAL WITH A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0°F. WHERE BEAM BOTTOM FLANGES ATTACH TO COLUMNS WITH COMPLETE JOINT PENETRATION GROOVE WELDS AND WELD BACKING IS USED AT THE BOTTOM SURFACE OF THE BEAM FLANGE, SUCH BACKING SHALL BE REMOVED AND THE ROOT PASS BACK-GOUGED, REPAIRED AND REINFORCED WITH A MINIMUM 3/16" (5mm) FILLET WELD.
6. WELDING INSPECTION TO BE PER C.B.C. SECTION 1705A.2.5
7. SEE TESTS AND INSPECTIONS REPORT SHEET A0 FOR REQUIREMENTS.
8. LIGHT GAGE METAL & FRAMING THICKNESSES

GAGE	DESIGN THICKNESS	MIN. DELIVERED THICKNESS
7 GA. STEEL	0.1793"	0.170"
10 GA. STEEL	0.1240"	0.118"
12 GA. STEEL	0.1017"	0.0966"
14 GA. STEEL	0.0713"	0.0677"

R = 3/16" MAX.
TYPICAL CORNER RADIUS

9. MINIMUM STEEL THICKNESS SHALL NOT BE LESS THAN 95% OF THE DESIGN THICKNESS PER AISI - GENERAL AND AISI - NAS.

STEEL SPECIFICATION

1. ALL STRUCTURAL PLYWOOD AND ORIENTED STRAND BOARD SHALL BE MANUFACTURED TO PRODUCT STANDARD DOC PS-1 (PLYWOOD), DOC PS-2 (O.S.B.), INSPECTED AND GRADE MARKED AT THE MILL BY AN APPROVED QUALITY CONTROL AGENCY SUCH AS APA OR TECO.
2. ROOF SHEATHING SHALL BE 4'x 8'x 5/8" GRADE MARKED 40/20 SPAN INDEX, EXP. 1 (PLYWOOD OR OSB).
3. FLOOR SHEATHING SHALL BE 4'x 8'x 1-1/8" T & G APA RATED STURD-I-FLOOR OR EQUAL, SPAN RATING = 48"
4. WALL SHEATHING SHALL BE 3/8" HARD BOARD SIDING APA EXTERIOR TYPE 303 GROUP 1 M.D.O., EXTERIOR GROUP 11, 1/2" APA RATED CDX PLYWOOD OR ORIENTED STRAND BOARD.
5. SEE FASTENER SCHEDULE, SHEET "S3FA".

SHEATHING SPECIFICATION

PRE-CHECK (PC) DOCUMENT
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07/08/2021

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No. S2030
Exp. 12/31/21
STRUCTURAL
STATE OF CALIFORNIA

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DATE: 07/29/2021

BI-PITCH ROOF, CEILING, & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES

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R221551X01

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JEFFREY ALAN GRAU
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
BI-PITCH ROOF, CEILING, AND FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES

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CONSTRUCTION DOCUMENTS

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FOR BUILDINGS ON WOOD OR CONCRETE FOUNDATIONS

SCREWS - #10 S.M.S. (AISI S400-15, SECTION F)

NOTE: SCREWS SHALL EXTEND THROUGH STEEL WITH A MIN. OF (3) EXPOSED THREADS.

SUBFLOORING

1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS

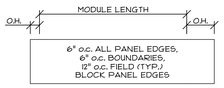
65 PSF

6" o.c. ALL PANEL EDGES
6" o.c. BOUNDARIES
12" o.c. FIELD
BLOCK PANEL EDGES

BLOCKED DIAPHRAGM

ROOF

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS



BLOCKED DIAPHRAGM

FOR BUILDINGS ON WOOD OR CONCRETE FOUNDATIONS

E.T.& F. - AKN 144 x 1 3/4" PIN (UES ER 335)

SUBFLOORING

1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS

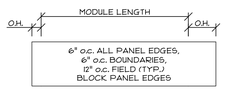
65 PSF

6" o.c. ALL PANEL EDGES,
6" o.c. BOUNDARIES,
12" o.c. FIELD (TYP.)
BLOCK PANEL EDGES

BLOCKED DIAPHRAGM

ROOF

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS



BLOCKED DIAPHRAGM

WALL TO FRAME FASTENING:

- WALL PANEL TOP PLATE TO PERIMETER ROOF BEAM. ..... (1) 1/4"Ø x 2 1/2" LAG SCREWS FROM ROOF BEAM BOTT. FLANGE INTO TOP PLATE @ 15" o.c. MAX.
- WALL PANEL BOTTOM PLATE TO PERIMETER FLOOR BEAM. ..... 1/4"-20 TEKS/4 SCREWS @ 24" o.c. FROM BOTTOM PLATE INTO FLOOR BEAM TOP FLANGE OR EACH FLOOR JOIST TOP FLANGE.
- WALL PANEL SIDE STUDS TO HSS CORNER COLUMNS ..... #12-24 x 2 1/2" S.D.S. @ 16" o.c. FROM SIDE STUD INTO STEEL CORNER COLUMN.
- TOP AND BOTTOM PLATE TO STUDS AND KING STUDS ..... (3) 135 x 3 1/4" LONG MACHINE NAIL
- DOUBLE STUDS, TRIMMERS, SILLS AND CRIPPLES STITCH NAILED ..... 135 x 3 1/4" LONG MACHINE NAILS @ 8" o.c.
- CRIPPLES, TRIMMERS END NAILED TO PLATES AND SILLS. ..... (3) 135 x 3 1/4" LONG MACHINE NAIL EA. END
- CRIPPLES, TRIMMERS NAILED TO HEADERS. ..... (3) 135 x 3 1/4" LONG MACHINE NAIL
- ALL HANGERS, STRAPS, CLIPS, ETC. ..... NAILED AS PER MANUFACTURERS SPECS.
- FASTENING CONDITIONS NOT ADDRESSED ABOVE ..... TABLE 2304.10.1, 2019 C.B.C.

SHEATHING NAILING & NOTES:

1. DO NOT CRUSH SHEATHING FACE PLY (OUTER VENEER LAYER) BY OVER DRIVING SCREWS, MACHINE, OR HAND NAILS.
2. UNDER DRIVEN NAILS SHALL BE CORRECTED BY HAND SET.
3. REMOVE AND REPLACE NAILS DRIVEN THAT MISS FRAMING OR SUPPORT.
4. ALL CORRECTIVE NAILING SHALL BE DONE BY HAND NAILING.
5. H.D.G = HOT DIPPED GALVANIZED WITH MINIMUM COATING OF 1 OZ PER SQ. F.T OF ZINC. OR MECHANICALLY GALVANIZED PER ASTM. F-1667.
6. FOR BLOCKED DIAPHRAGMS, BLOCK PANEL EDGES PER 11/S4.1.
7. MINIMUM SHEATHING PANEL WIDTH SHALL BE 24" PER AISI S213, D3.2

SIDING	
EXTERIOR SIDING	INTO WOOD STUDS; .131" x 2 1/2" @ 6" o.c. PANEL EDGES, 12" o.c. IN FIELD. (H.D.G. OR MECH. GALV. NAILS, PER ASTM F-1667.). INTO STEEL COLUMNS; #12-24 x 2" S.D.S. @ 24" o.c.

GYPSUM WALLBOARD	
1/2" GYP. BOARD TO 2x4, 2x6, OR 2x8 STUDS	J21 x 1 1/2" COATED NAILS @ 8" o.c. EDGES, 8" o.c. IN FIELD.

OVERHANG SOFFIT	
1/2" APA RATED SHEATHING	#8 x 1" S.M.S. @ 6" o.c. EDGES, 12" o.c. IN FIELD (PRE-PUNCHED HOLES IN STEEL)

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FASTENING SCHEDULE & NOTES

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KEYNOTES

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17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FASTENING SCHEDULES AND NOTES

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CONSTRUCTION DOCUMENTS

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DATE: **10/26/23** | CLIENT PROJ NO: **R221551X01**

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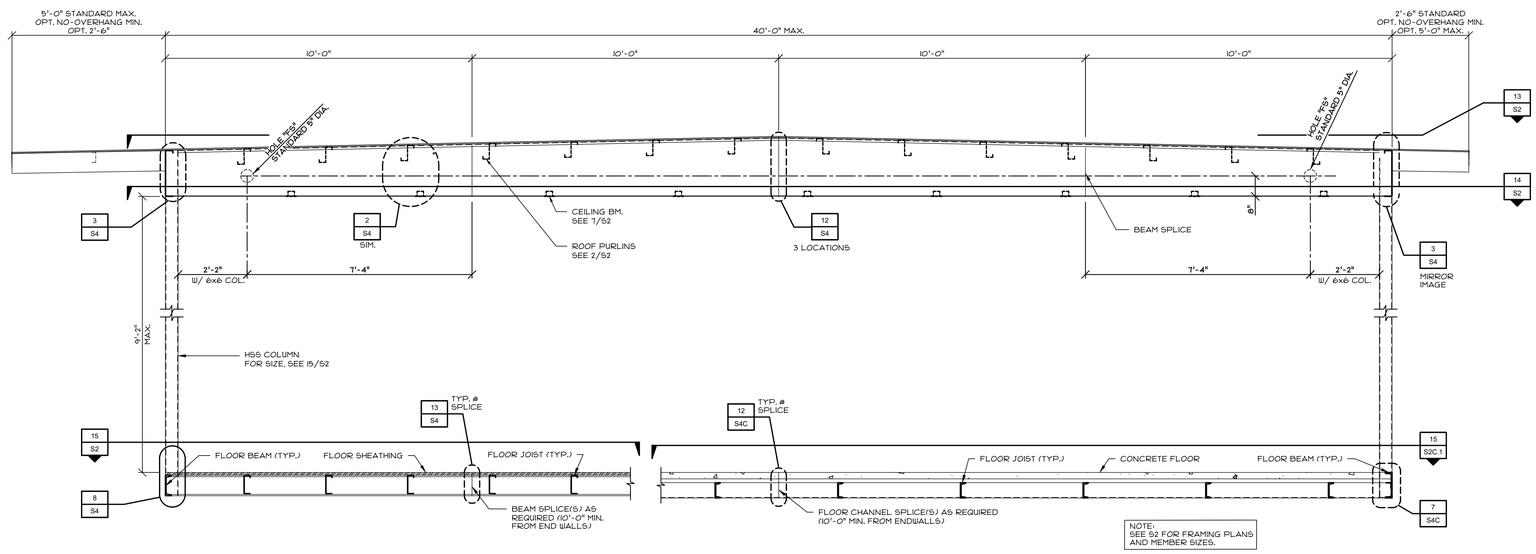


1 TYPICAL LONGITUDINAL FRAME SECTION - BI-PITCH ROOF

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

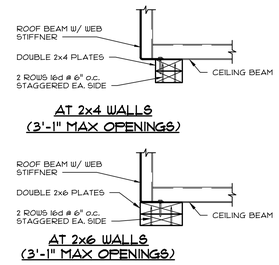
SHEET REFERENCES

WHERE DETAIL "A4" IS CALLED OUT.

STUD SIZE	W/O CHG.	W/ CHG.	1 HR. FIRE BARRIER
2x4	A4	A4.4	N/A
2x6	A4.1	A4.5	A4.3 OR A4.6

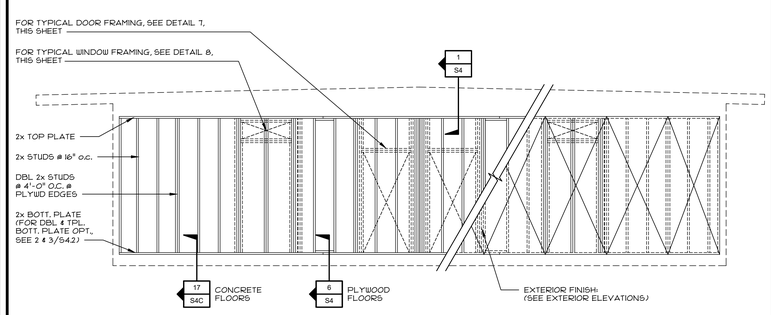
SEE SHEET S3FA FOR NAILING SCHEDULE.

2 SHEET NOTES



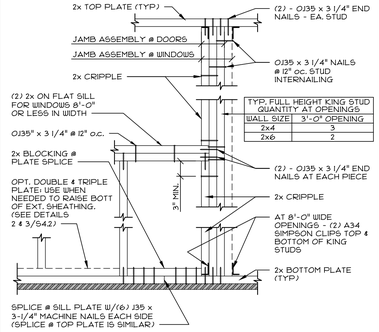
12 WINDOW HEADER CONFIGURATIONS

SCALE: 11/2"=1'-0"



3 TYPICAL SIDEWALL FRAMING ELEVATION

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

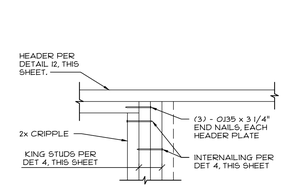


TYP. FULL HEIGHT KING STUD QUANTITY AT OPENINGS	
WALL SIZE	3'-0" OPENING
2x4	3
2x6	2

4 TYPICAL STUD NAILING DETAIL

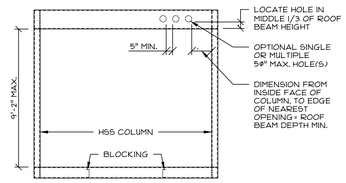
SCALE: 1"=1'-0"

5



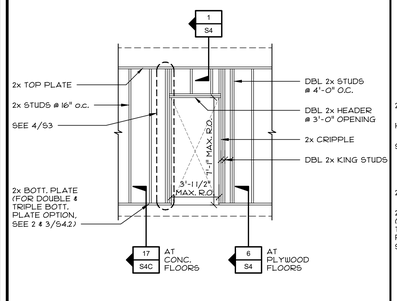
13 HEADER END CONNECTION

SCALE: 11/2"=1'-0"



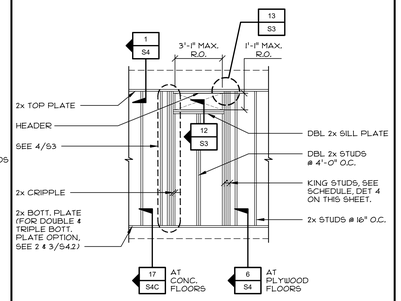
6 END FRAME ELEVATION

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



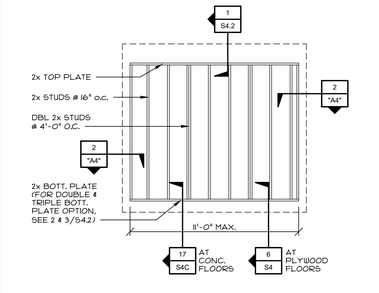
7 TYP. FRAMING - EXTERIOR DOOR

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



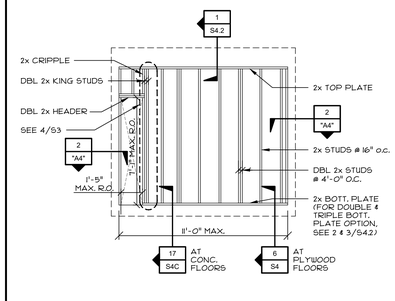
8 TYP. FRAMING - EXTERIOR WINDOW

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



9 TYP. ENDWALL FRAMING

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



10 TYP. ENDWALL WITH EXTERIOR DOOR

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

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BI-PITCHED ROOF
LONGITUDINAL BUILDING
SECTION, WALL FRAMING
ELEVATIONS, END FRAME
ELEVATION

REV / DATE:	BY:
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BI-PITCHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION

CONSTRUCTION DOCUMENTS

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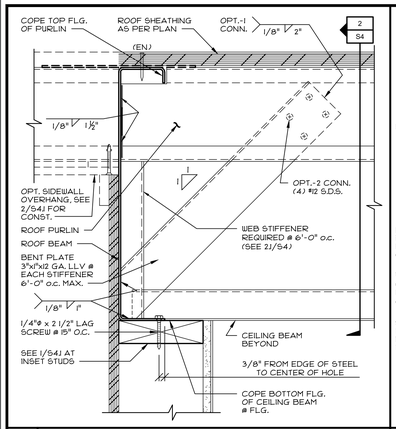
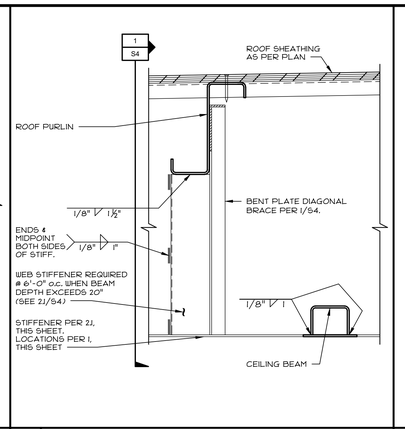
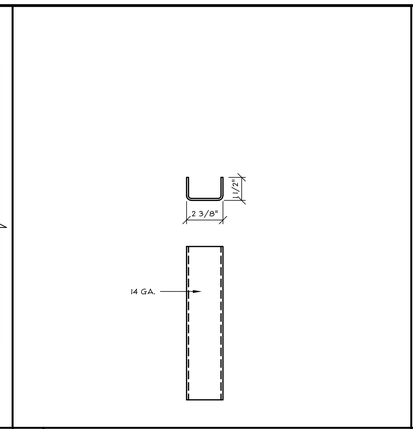


1 ROOF BEAM SECTION @ PURLIN
SCALE: 3"=1'-0"



2 PURLIN TO STIFFENER AT BEAM
SCALE: 3"=1'-0"



2.1 ROOF BEAM STIFF
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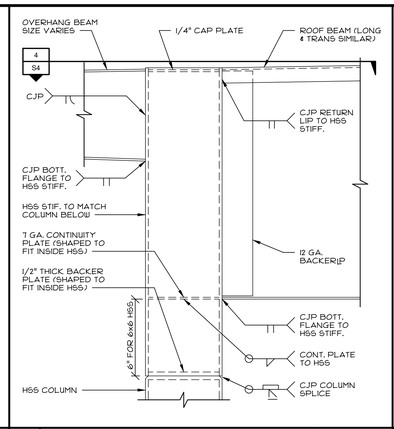
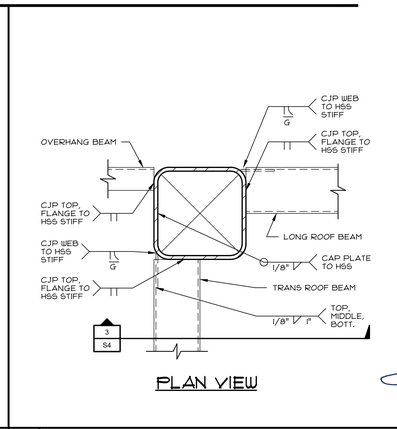
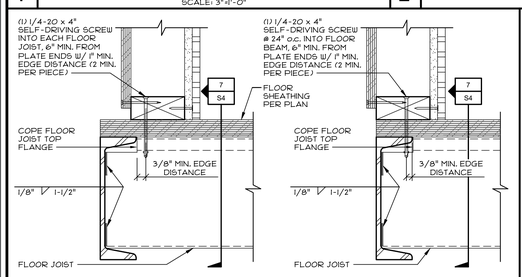


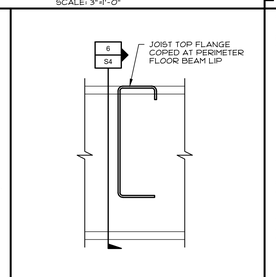
3 ROOF BEAM @ CORNER - SECTION
SCALE: 3"=1'-0"



PLAN VIEW

4 ROOF BEAM @ CORNER
SCALE: 3"=1'-0"

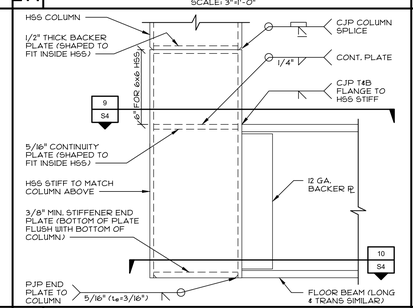




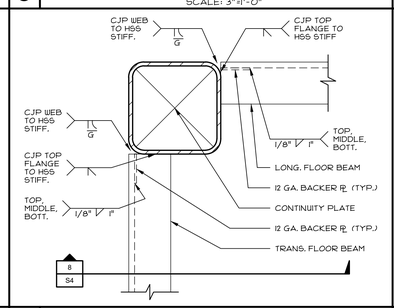
FOR CLARITY, FLOOR SHEATHING IS NOT SHOWN.

6 FLOOR JOIST & BOTTOM PLATE CONNECTION
SCALE: 3"=1'-0"

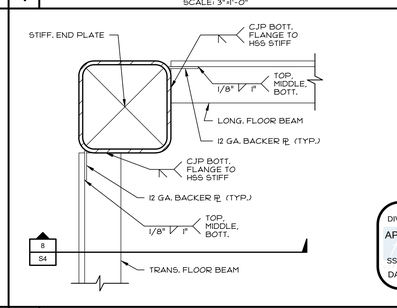
7 FLR. JOIST TO BEAM
SCALE: 3"=1'-0"



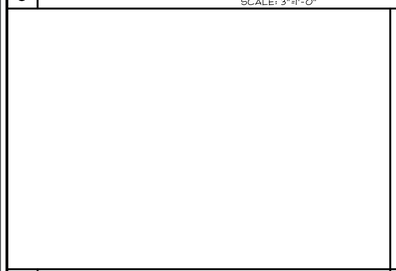
8 FLOOR BEAM @ CORNER - SECTION
SCALE: 3"=1'-0"



9 FLOOR BEAM TOP FLANGE
SCALE: 3"=1'-0"

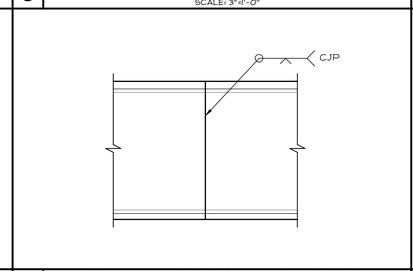


10 FLOOR BEAM BOTTOM FLANGE
SCALE: 3"=1'-0"

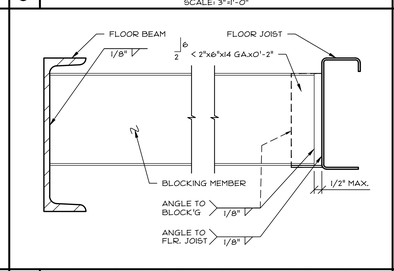


11

12 ROOF BEAM SPLICE DETAIL
SCALE: 3"=1'-0"



13 FLOOR BEAM SPLICE DETAIL
SCALE: 3"=1'-0"



14 BLOCKING MEMBER CONNECTION
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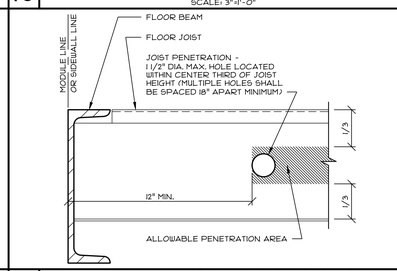
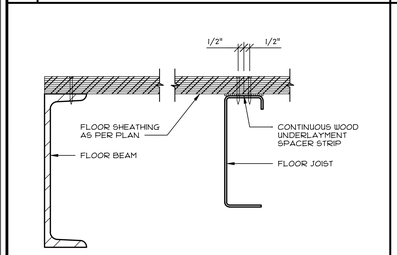
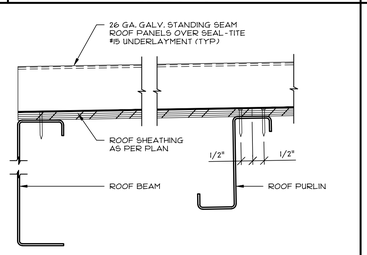


18 FLOOR JOIST PENETRATION
SCALE: 3"=1'-0"



15 FLOOR SHEATHING ATTACHMENT
SCALE: 3"=1'-0"



NOTE: THIS ROOF MEETS CLASS 'B' FIRE RATING

16 ROOF SHEATHING ATTACHMENT
SCALE: 3"=1'-0"

17

NOTES:

1. ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.
2. FOR FASTENER SCHEDULE, SEE SHEET S3FA

19 SHEET NOTES

PRE-CHECK (PC) DOCUMENT
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DATE:	

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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAY C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

CYS STRUCTURAL ENGINEERS INC.
2700 Zeppelin Drive, Suite 100
Sacramento, CA 95833
(916) 568-1000 Fax (916) 568-1010
www.cysengr.com

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Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
STRUCTURAL CONNECTION DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:

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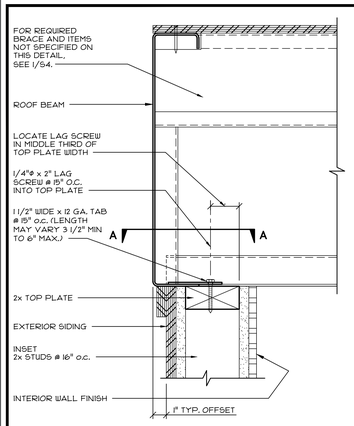
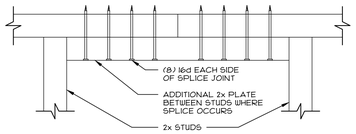
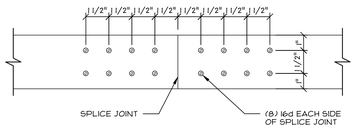
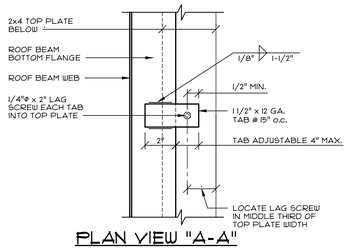




ELEVATION - TOP PLATE SPLICE

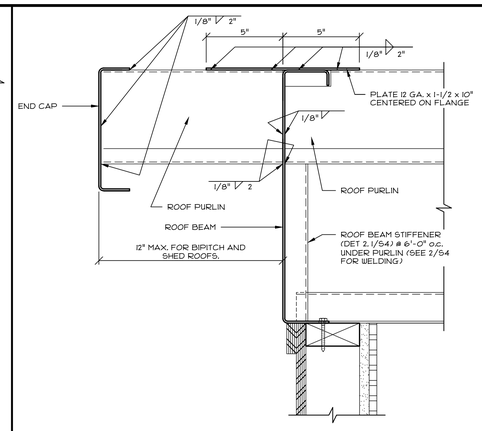


PLAN - TOP PLATE SPLICE

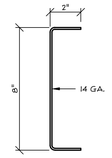


PLAN VIEW "A-A"

1 INSET STUDS - TOP PLATE CONNECTION
SCALE: 3"=1'-0"

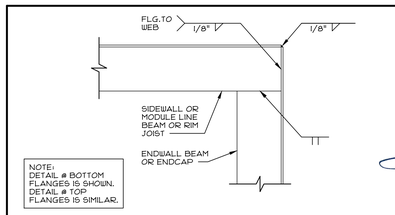


2 SIDEWALL OVERHANG DETAIL
SCALE: 3"=1'-0"



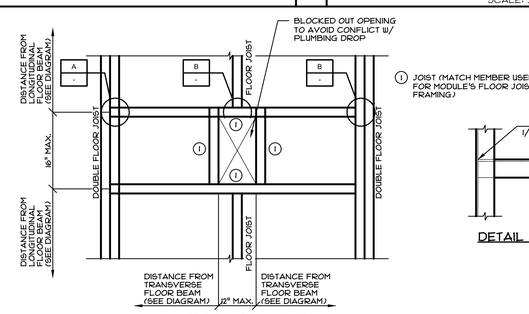
EFFECTIVE SECTION PROPERTIES	
A	0.84 in²
Ix min.	6.34 in⁴
Sx min.	1.49 in³

END CAP SECTION PROPERTIES

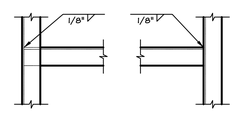


15 TYP. CHANNEL BEAM @ CORNERS
SCALE: 3"=1'-0"

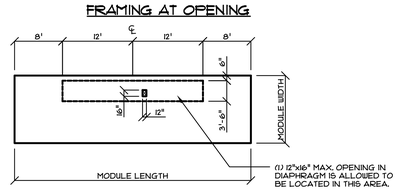
3



FRAMING AT OPENING

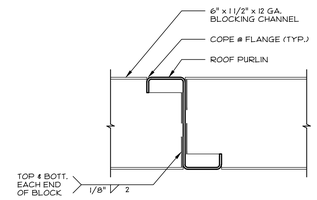


DETAIL "A" DETAIL "B"

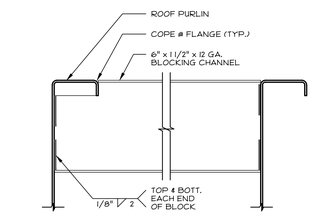


ALLOWABLE LOCATION DIAGRAM

4 FLOOR JOIST PLUMBING BLOCK-OUT
SCALE: NOT TO SCALE



BETWEEN PURLINS



BETWEEN BEAMS

11 TYP. CHANNEL BLOCK INSTALLATION
SCALE: 3"=1'-0"

5

6

PRE-CHECK (PC) DOCUMENT
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LICENSED ARCHITECT JEFFREY ALAN GRAY C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

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DRAWN BY:
DATE:

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KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
OPTIONAL STRUCTURAL DETAILS

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A NO.: 02-121807
DATE: 10/26/23 CLIENT PROJ NO: R221551X01
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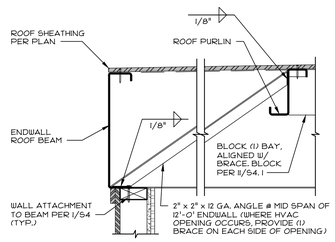

FOR FASTENER SCHEDULE, SEE SHEET "S3FA"

1 ENDWALL DIAGONAL BRACE
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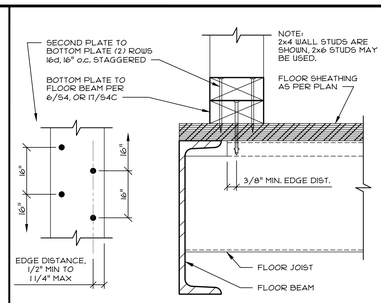

2 DOUBLE BOTTOM PLATE OPTION
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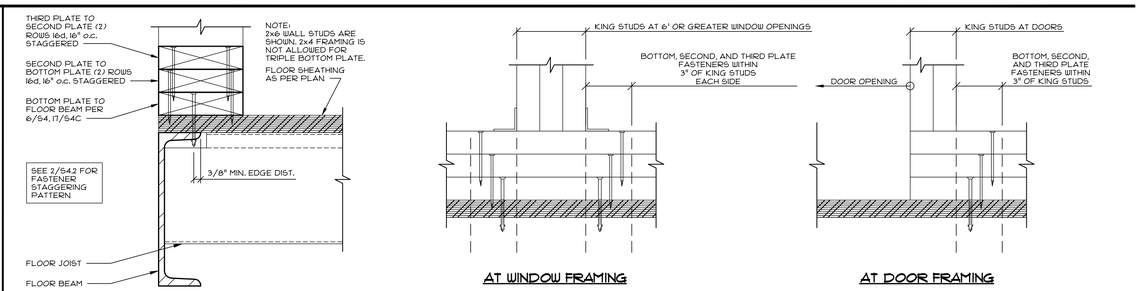

3 TRIPLE BOTTOM PLATE OPTION
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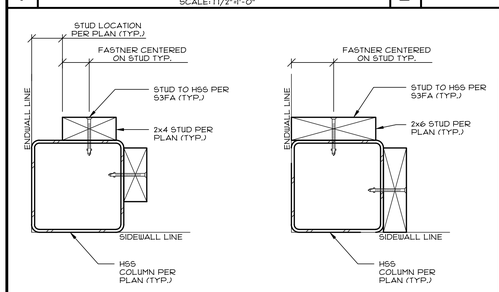
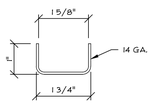


6 WALL STUD TO HSS @ CORNER
SCALE: 3"=1'-0"

7



8 MISCELLANEOUS TRACK
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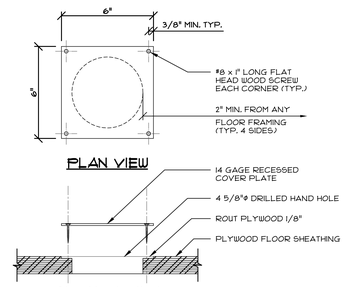
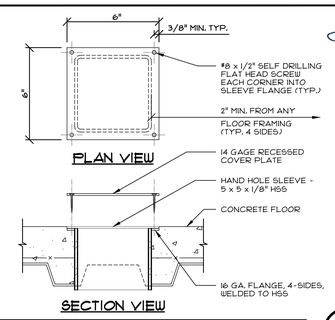


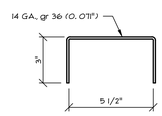
4 HAND ACCESS HOLE - PLYWOOD
SCALE: 3"=1'-0"



5 HAND ACCESS HOLE - CONCRETE
SCALE: 3"=1'-0"

11

11.1



SECTION PROPERTIES	
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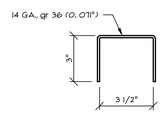
Sx min.	0.139 in^3
Iy min.	3.156 in^4
Sy min.	0.956 in^3



EFFECTIVE SECTION PROPERTIES	
A	0.669 in^2
Ix min.	0.217 in^4
Sx min.	0.150 in^3
Iy min.	1.129 in^4
Sy min.	0.511 in^3

13 SECT. PROP. - SLIP TRACKS
SCALE: 3"=1'-0"

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JOB No.:
DRAWN BY:
DATE:

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CYS STRUCTURAL ENGINEERS INC.
2209 Kausen Drive, Suite 1, Elk Grove, CA 95758
Sacramento, CA 95833
(916) 393-9193 Voice (916) 393-1244 Fax
www.cysseg.com

07/08/2021

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ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

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PROJECT:
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SHEET NAME:
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BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23
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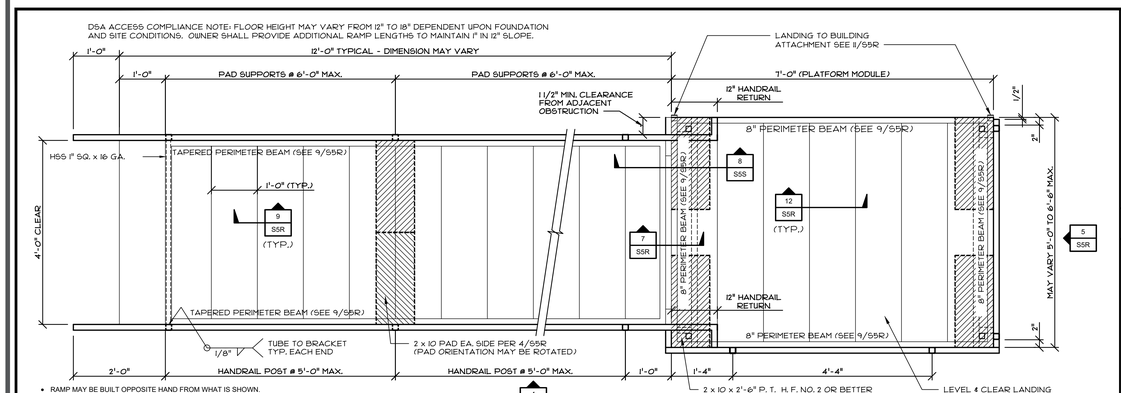
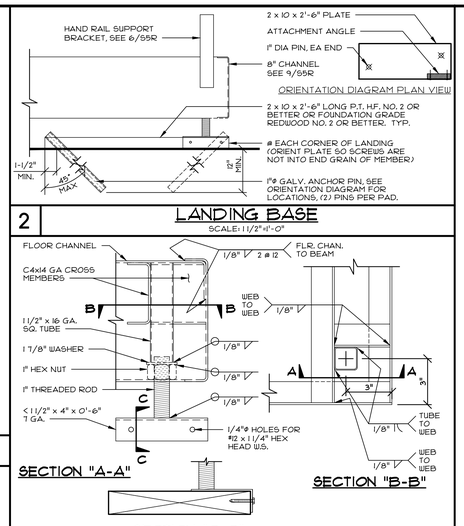


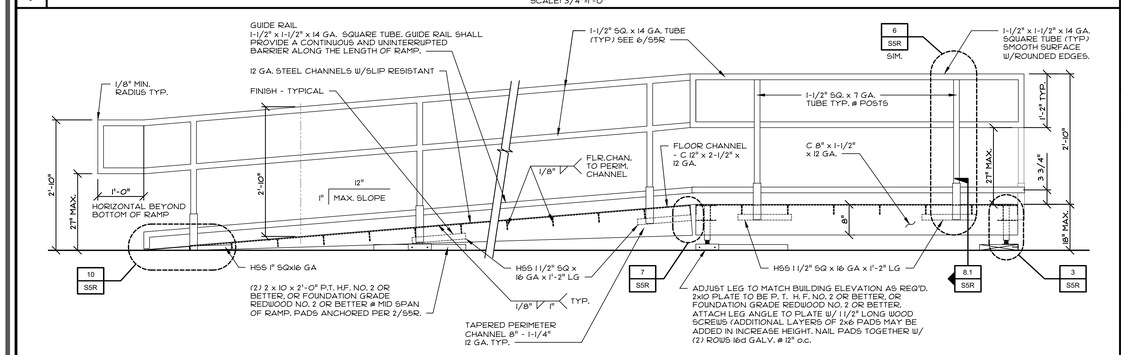
- RAMP MAY BE BUILT OPPOSITE HAND FROM WHAT IS SHOWN.
- RAMP LENGTH MAY BE DECREASED OR INCREASED TO MAINTAIN 1:12 SLOPE.
- MULTIPLE LANDING PLATFORM UNITS MAY BE SET ADJACENT TO EACH OTHER TO INCREASE LANDING AREA. SEE 8.2/S5R FOR LANDING TO LANDING CONNECTION.

1 RAMP & LANDING PLAN
SCALE: 3/4"=1'-0"

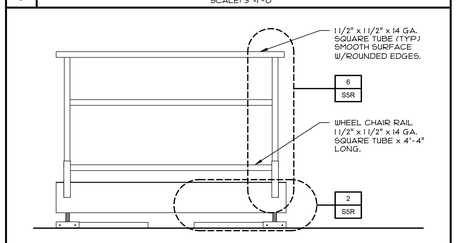


2 LANDING BASE
SCALE: 1 1/2"=1'-0"

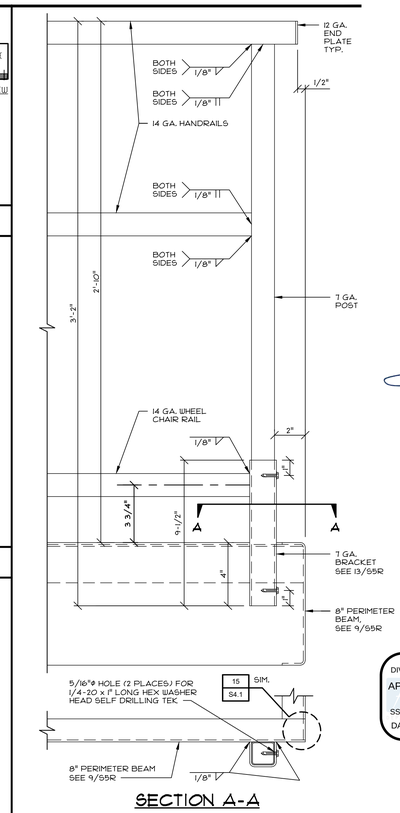
3 PLATFORM BASE & ADJUST LEG DETAIL
SCALE: 3"=1'-0"



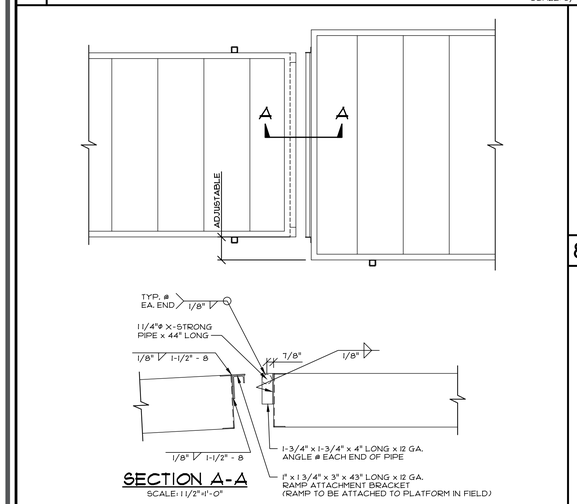
4 RAMP & PLATFORM SIDE ELEVATION
SCALE: 3/4"=1'-0"



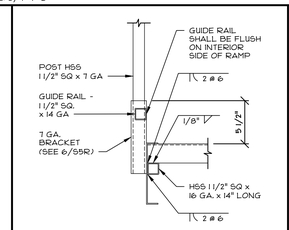
5 PLATFORM END ELEVATION
SCALE: 3/4"=1'-0"



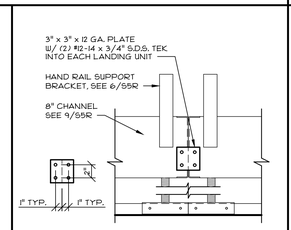
6 HANDRAIL SUPPORT BRACKET
SCALE: 3"=1'-0"



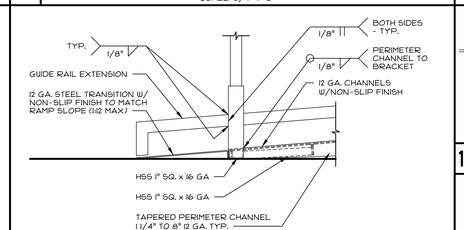
7 RAMP TO LANDING ATTACHMENT
SCALE: 3/4"=1'-0"



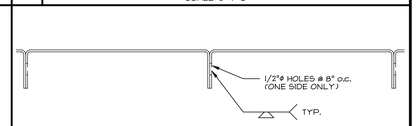
8.1 SECTION
SCALE: 1 1/2"=1'-0"



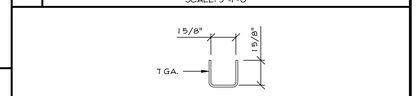
8.2 LANDING TO LANDING
SCALE: 1 1/2"=1'-0"



10 ZERO CLEARANCE TRANSITION
SCALE: 1 1/2"=1'-0"



12 FLOOR CHANNEL ATTACHMENT
SCALE: 3"=1'-0"

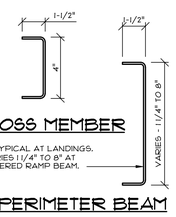


13 HANDRAIL BRACKET / SLEEVE
SCALE: 3"=1'-0"

EFFECTIVE SEC. PROP.	FLOOR CHANNEL
	12"
A	1.69 in^2
I_y min.	0.75 in^4
S_y min.	1.61 in^3
T_{design}	0.102" (12 ga.)

EFFECTIVE SECTION PROPERTIES	CROSS MEMBER	PERIMETER BEAM	
	4"	11/4"	8"
A	0.48 in^2	0.394 in^2	1.08 in^2
Ix min.	1.04 in^4	0.104 in^4	8.48 in^4
Sx min.	0.50 in^3	0.166 in^3	2.12 in^3
T_{design}	0.071" (14 ga.)	0.102" (12 ga.)	0.102" (12 ga.)

FLOOR CHANNEL

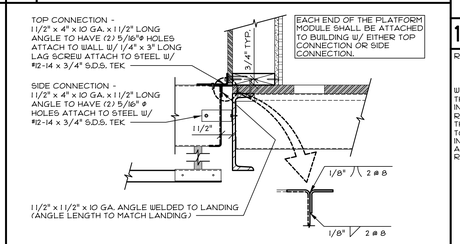


CROSS MEMBER

8" TYPICAL AT LANDINGS. VARIES 1 1/4" TO 8" AT TAPERED RAMP BEAM.

PERIMETER BEAM

9 SECTION PROPERTIES
SCALE: 3"=1'-0"



11 LANDING ATTACHMENT TO BUILDING
SCALE: 1 1/2"=1'-0"

RAMP DESIGN CRITERIA:
RAMP: DEAD LOAD - 5.0 PSF
RAMP: LIVE LOAD - 100.0 PSF

WELDING INSPECTION:
THE DESIGN PROFESSIONAL HAS EXEMPTED RAMP/PLATFORM/STAIRS FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP/PLATFORM/STAIRS SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND ADJACENT GRADE TO BE MORE THAN 30". IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF THE RAMP.

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAY C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

CYS STRUCTURAL ENGINEERS INC.
07/08/2021

REGISTERED PROFESSIONAL ENGINEER JOSHUA ERNEST ROSS No. S2030 STATE OF CALIFORNIA

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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD
STOCKTON, CA. 95215
(209) 466-8000

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118743 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/29/2021

ACCESSIBLE RAMP & PLATFORM DETAILS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

S5R

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ACCESSIBLE RAMP AND PLATFORM DETAILS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807
DATE: 10/26/23
CLIENT PROJ NO: R221551X01
SHEET:

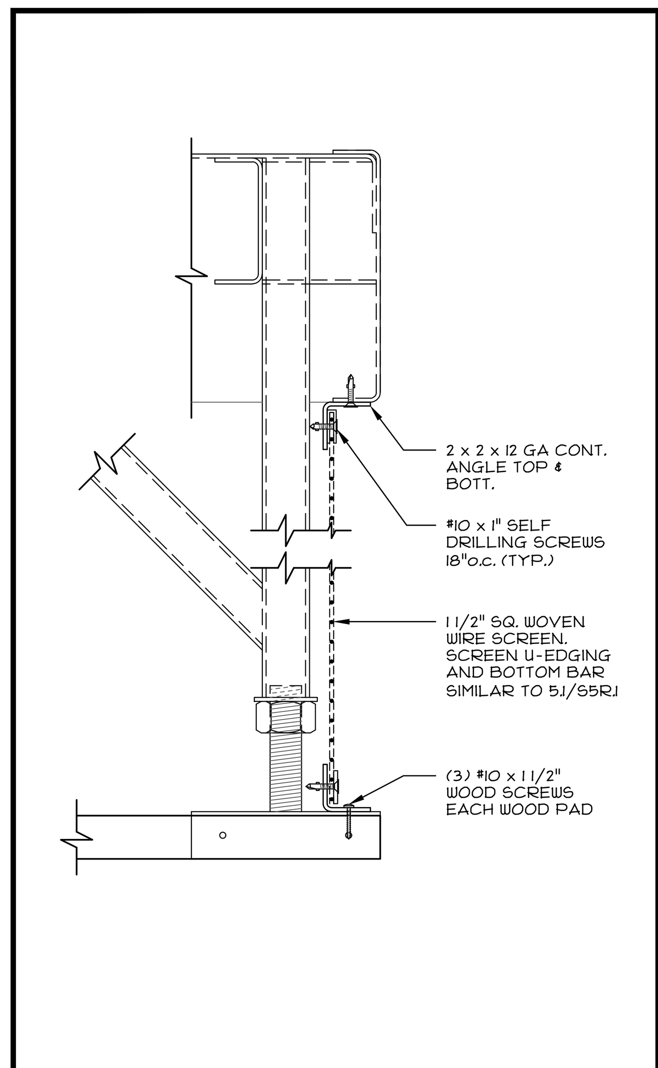
A.0

Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
10/26/2023 1:32:08 PM

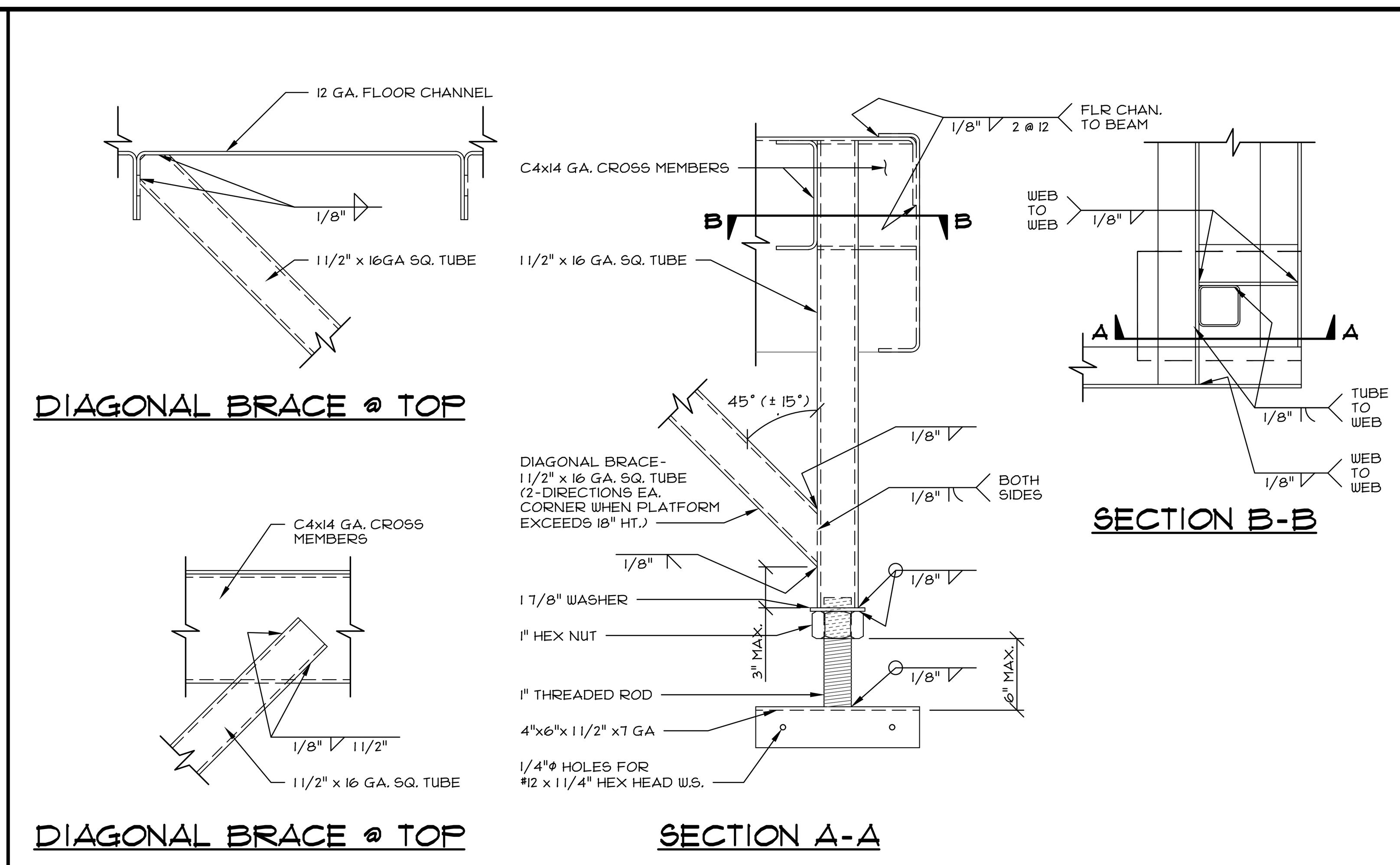
PLEASE RECYCLE

AGENCY APPROVAL:

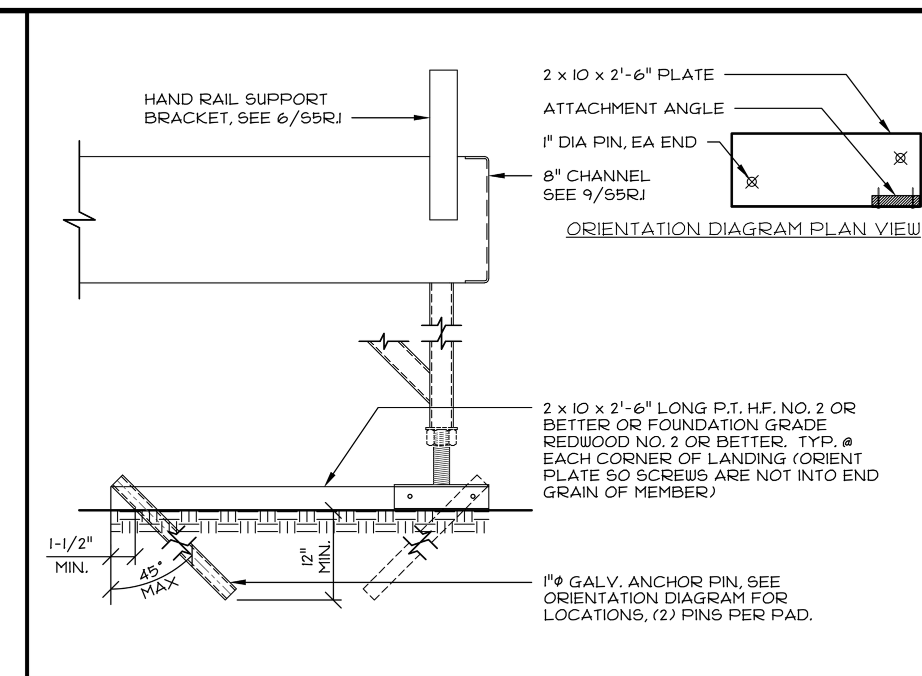
REVIEWING AGENCIES STAMP HERE



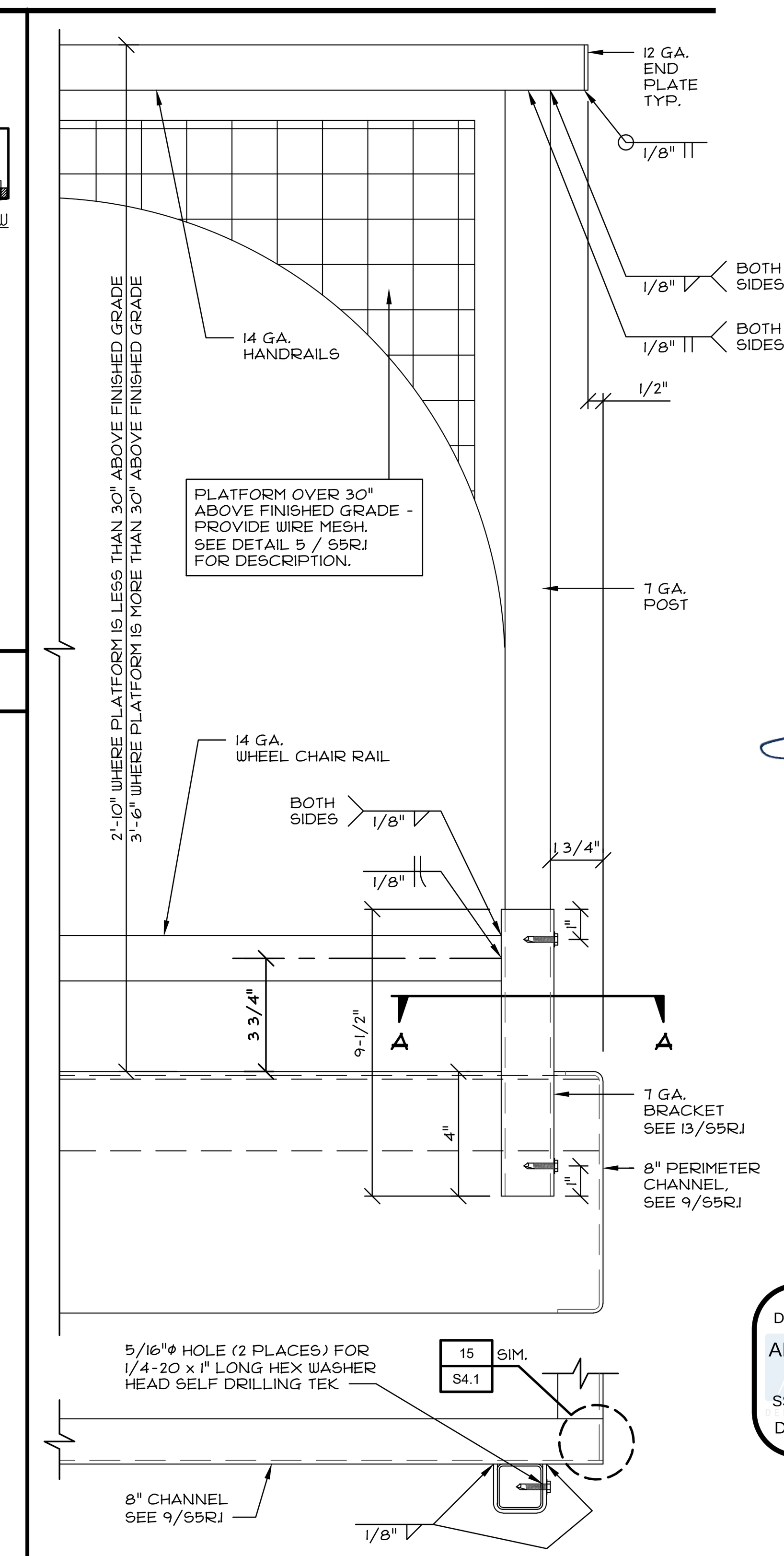
1 TYP CLOSURE PANEL
SCALE: 3"=1'-0"



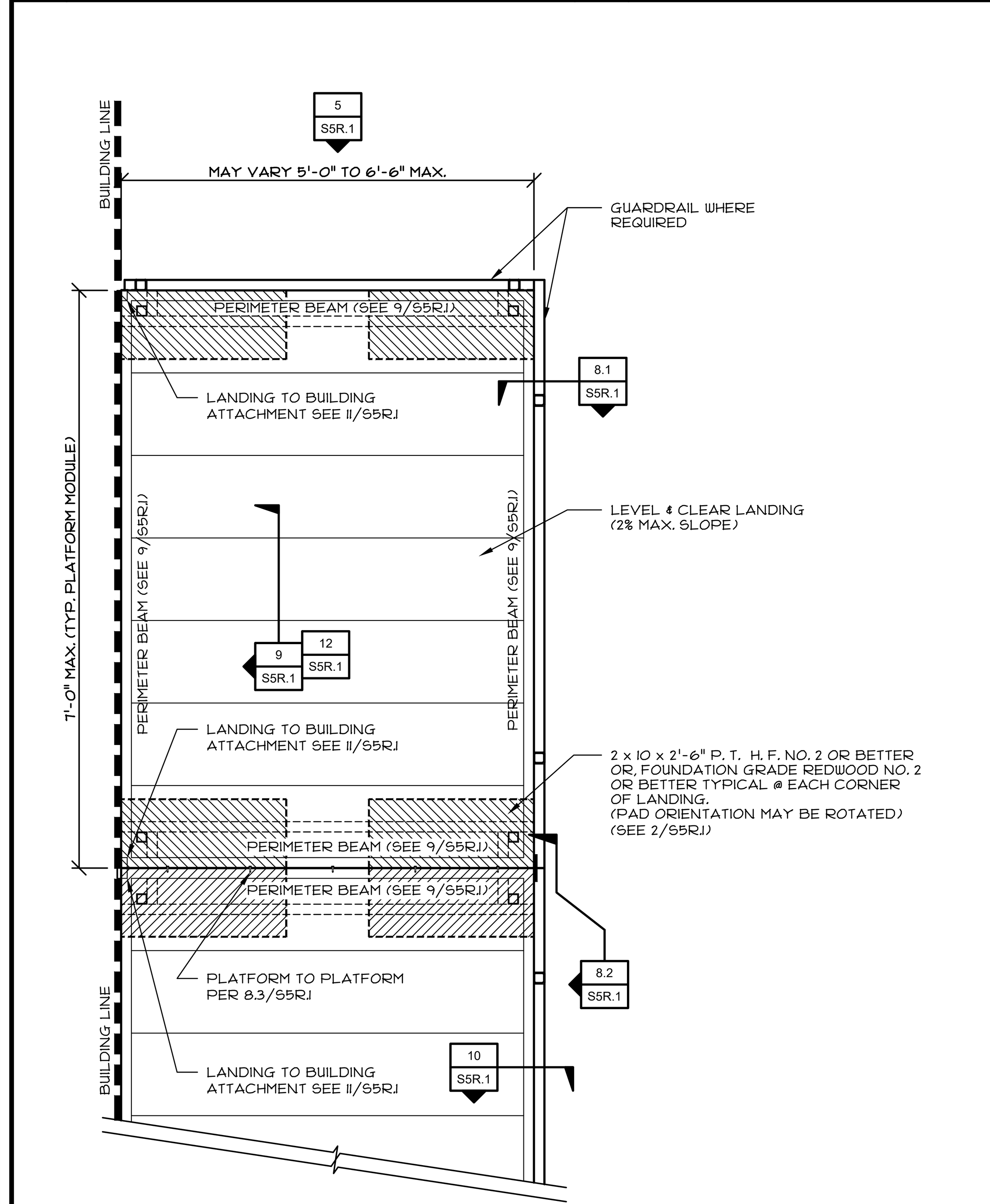
3 ADJUST LEG DETAIL (PLATFORMS OVER 18")
SCALE: 3"=1'-0"



2 TYPICAL LANDING BASE
SCALE: 1 1/2"=1'-0"

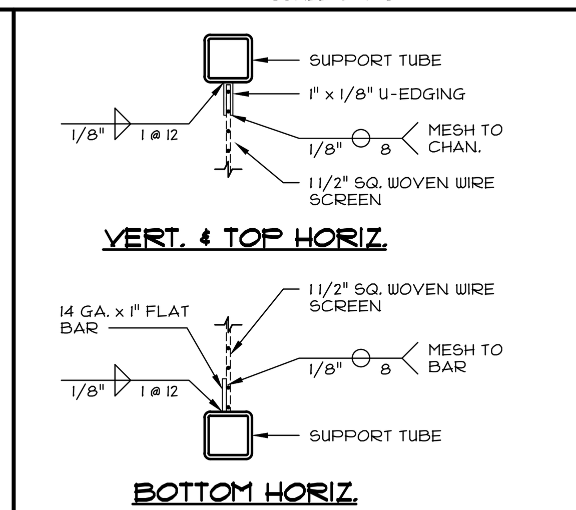


6 GUARD/HANDRAIL BRACKET
SCALE: 3"=1'-0"

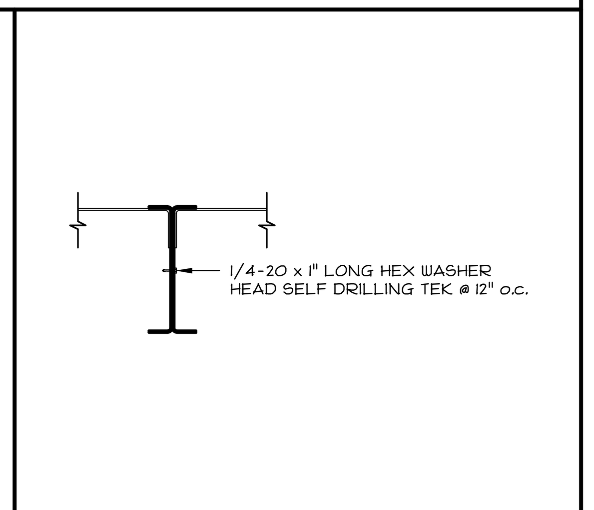


- RAMP MAY BE BUILT OPPOSITE HAND FROM WHAT IS SHOWN.
- MULTIPLE LANDING PLATFORM UNITS MAY BE SET ADJACENT TO EACH OTHER TO INCREASE LANDING AREA. SEE 8.2/S5R.1 FOR LANDING TO LANDING CONNECTION.

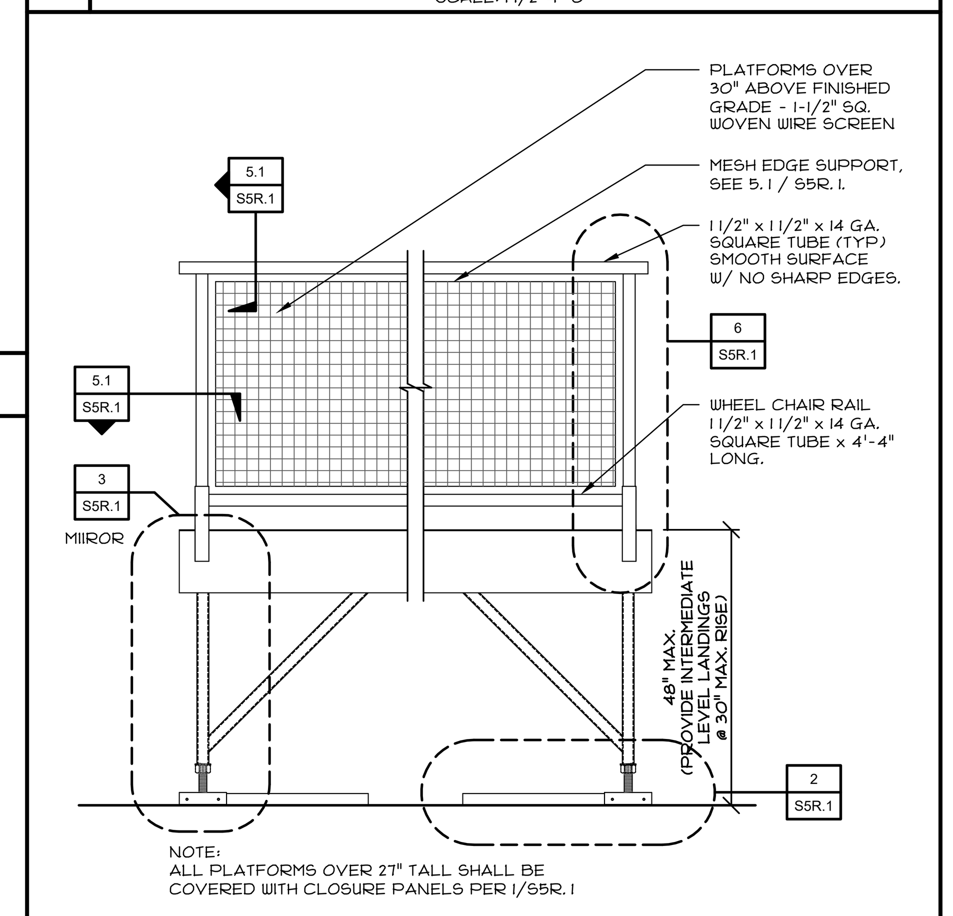
15 TYP. MULTIPLE PLATFORM PLAN
SCALE: 3/4"=1'-0"



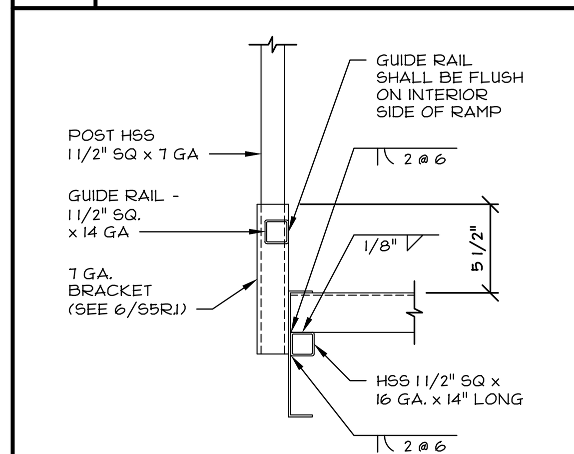
5.1 MESH TO SUPPORT
SCALE: 3"=1'-0"



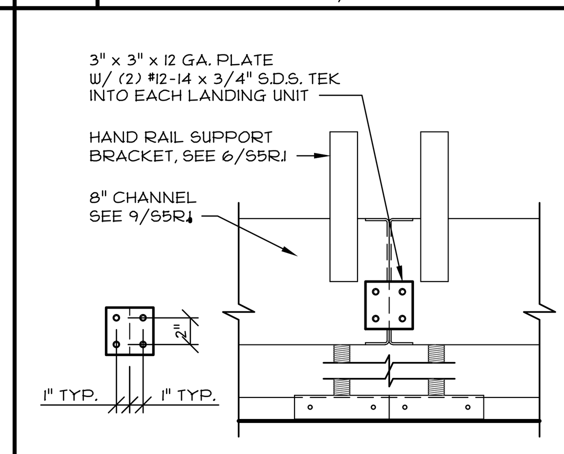
8.3 PLATFORM STITCH
SCALE: 1 1/2"=1'-0"



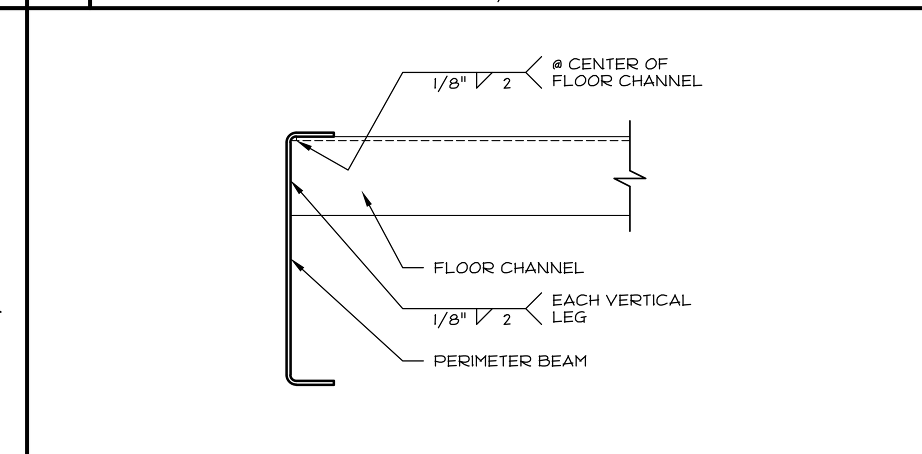
5 TYPICAL PLATFORM END ELEVATION
SCALE: 3/4"=1'-0"



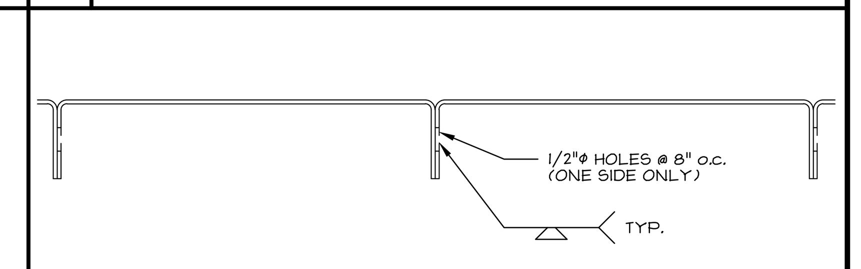
8.1 SECTION
SCALE: 1 1/2"=1'-0"



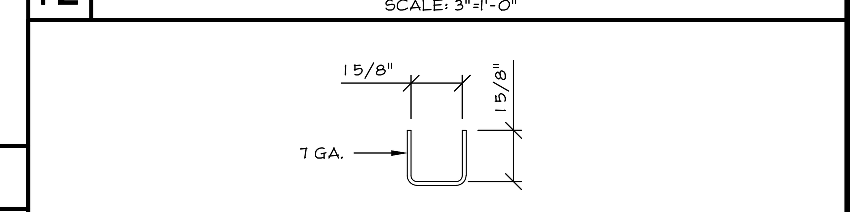
8.2 LANDING TO LANDING
SCALE: 1 1/2"=1'-0"



10 FLR. CHAN. TO PERIMETER BM.
SCALE: 3"=1'-0"



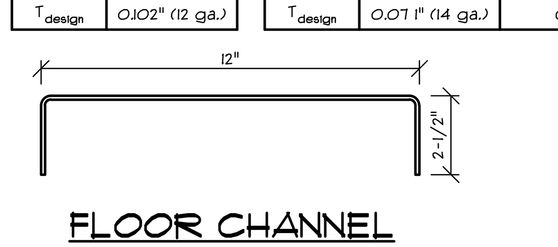
12 FLOOR CHANNEL ATTACHMENT
SCALE: 3"=1'-0"

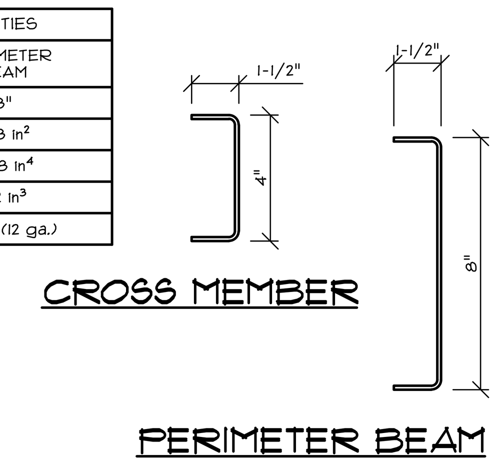


13 HANDRAIL BRACKET / SLEEVE
SCALE: 3"=1'-0"

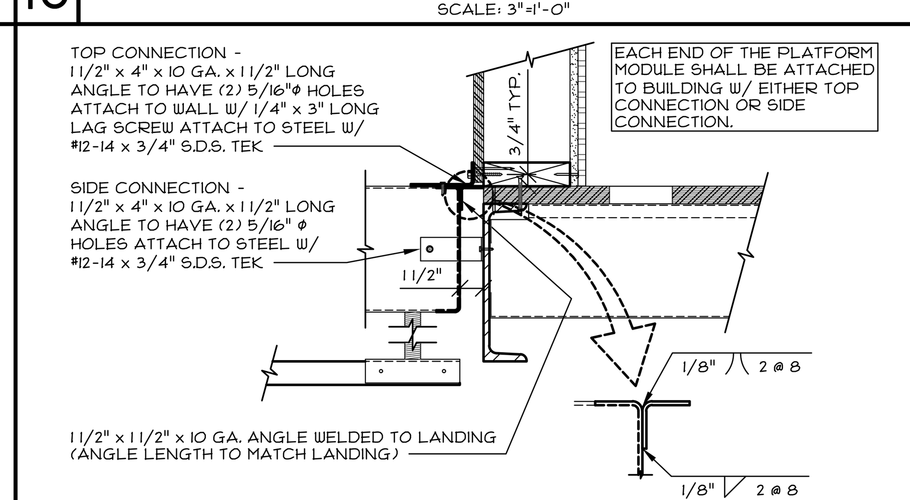
EFFECTIVE SEC. PROP.	FLOOR CHANNEL
	12"
A	1.69 in²
Iy min.	0.75 in⁴
Sy min.	1.61 in³
T design	0.102" (12 ga.)

EFFECTIVE SECTION PROPERTIES	CROSS MEMBER	PERIMETER BEAM
	4"	8"
A	0.48 in²	1.08 in²
Ix min.	1.04 in⁴	8.48 in⁴
Sx min.	0.50 in³	2.12 in³
T design	0.071" (14 ga.)	0.102" (12 ga.)





9 SECTION PROPERTIES
SCALE: 3"=1'-0"



11 LANDING ATTACHMENT TO BUILDING
SCALE: 1 1/2"=1'-0"

RAMP DESIGN CRITERIA:
RAMP: DEAD LOAD - 5.0 PSF
RAMP: LIVE LOAD - 100.0 PSF

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PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
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CYS Structural Engineers Inc.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com
07/08/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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STOCKTON, CA. 95215
(209) 466-8000

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118743 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/29/2021

PLATFORM DETAILS (PLATFORM OVER 18" HEIGHT)

REV / DATE:	BY:

JOB No.:	
DRAWN BY:	
DATE:	

S5R.1

LODI USD

HMC Architects
R221551X01
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
PLATFORM DETAILS (PLATFORM OVER 18" HEIGHT)

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23 | CLIENT PROJ NO: R221551X01

SHEET:
S5R.1

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
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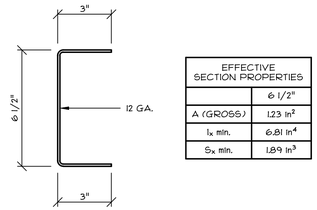
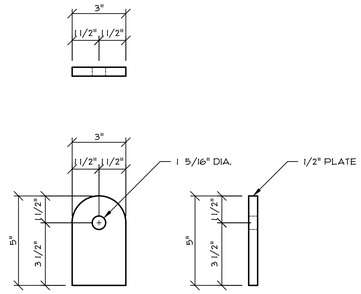


EFFECTIVE SECTION PROPERTIES	
	6 1/2"
A (GROSS)	1.23 in^2
I_x min.	6.81 in^4
S_x min.	1.89 in^3

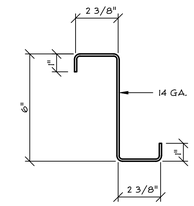
4 DETAIL - CANOPY PERIM. CHAN.

SCALE: 3"=1'-0"



3 DETAIL - UPPER CLEVIS PLATE

SCALE: 3"=1'-0"



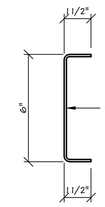
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.87 in^2
I_x min.	4.83 in^4
S_x min.	1.61 in^3

10 DETAIL - "Z" PURLIN

SCALE: 3"=1'-0"

STUD SIZE	MIN. DISTANCE TO CORNER
2x4	"b" PER 2/AIR
2x6	NO MIN.

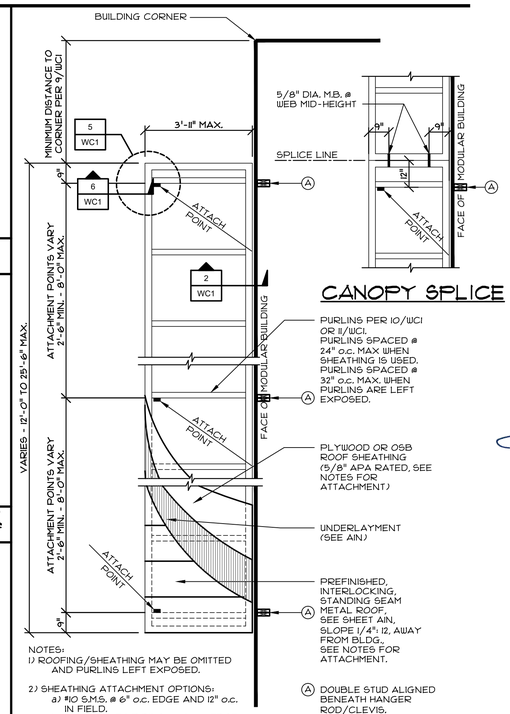
9 MIN DISTANCE TO CORNER



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	.88 in^2
I_x min.	4.14 in^4
S_x min.	1.38 in^3

11 CHANNEL PURLIN & STRONGBACK

SCALE: 3"=1'-0"

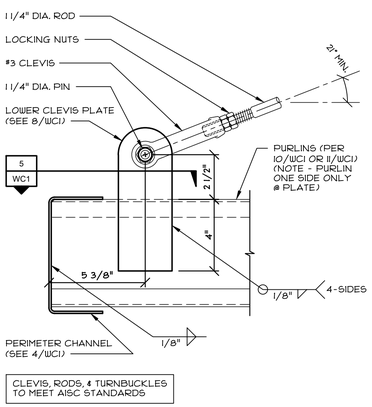


NOTES:
1) ROOFING/SHEATHING MAY BE OMITTED AND PURLINS LEFT EXPOSED.
2) SHEATHING ATTACHMENT OPTIONS:
   a) #10 S.M.S. @ 6" o.c. EDGE AND 12" o.c. IN FIELD.
   b) 0.144" DIA ET&F PINS @ 6" o.c. EDGE 12" o.c. IN FIELD.
3) SEE 1/WC2 FOR SHEATHING LAYOUT.
4) STANDING SEAM METAL ROOF PANEL ATTACHMENT PER 2/AIR, ROOF CLIP SPACING SCHEDULE, ZONE 3.

CANOPY SPLICE

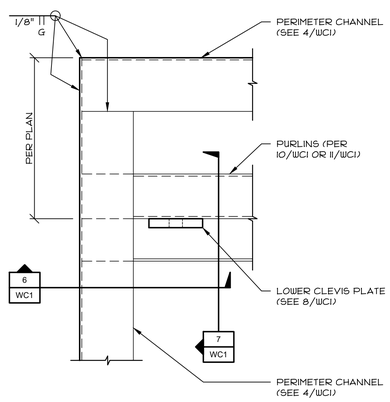
1 PLAN VIEW-MULTIPLE HANGER CANOPY

SCALE: 3/8"=1'-0"



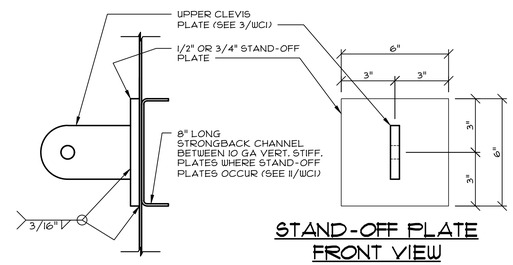
6 SECTION - LOWER CLEVIS PLATE

SCALE: 3"=1'-0"



5 PLAN VIEW - LOWER CLEVIS PLATE

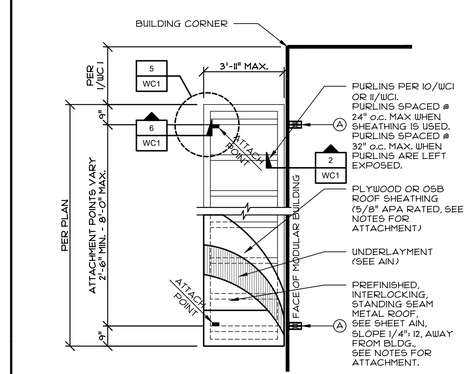
SCALE: 3"=1'-0"



CLEVIS, RODS, & TURNBUCKLES TO MEET AISC STANDARDS

STAND-OFF PLATE

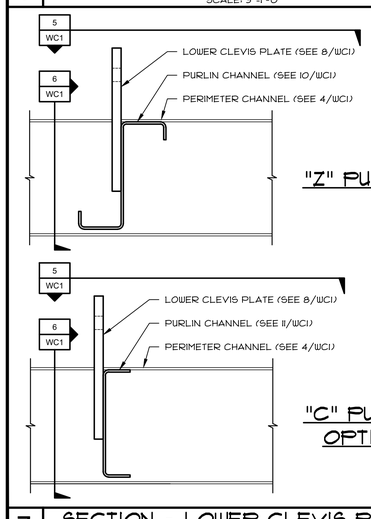
STAND-OFF PLATE FRONT VIEW



NOTES:
1) ROOFING/SHEATHING MAY BE OMITTED AND PURLINS LEFT EXPOSED.
2) SHEATHING ATTACHMENT OPTIONS:
   a) #10 S.M.S. @ 6" o.c. EDGE AND 12" o.c. FIELD.
   b) 0.144" DIA ET&F PINS @ 6" o.c. EDGE AND 10" o.c. FIELD
3) SEE 1/WC2 FOR SHEATHING LAYOUT.
4) STANDING SEAM METAL ROOF PANEL ATTACHMENT PER 2/AIR, ROOF CLIP SPACING SCHEDULE, ZONE 3.

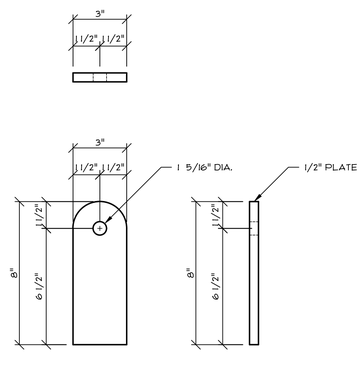
1.1 PLAN VIEW - DOUBLE HANGER CANOPY

SCALE: 3/8"=1'-0"



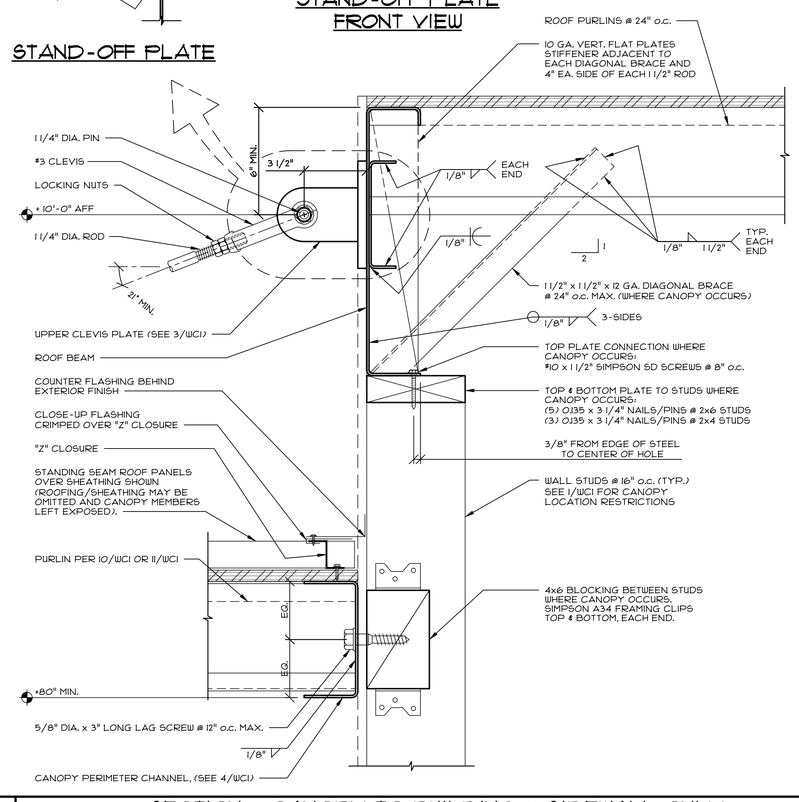
7 SECTION - LOWER CLEVIS PLATE

SCALE: 3"=1'-0"



8 DETAIL - LOWER CLEVIS PLATE

SCALE: 3"=1'-0"



2 SECTION - CANOPY TO BUILDING @ SIDEWALL ONLY

SCALE: 3"=1'-0"

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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07/08/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST REST No. S2030 STRUCTURAL STATE OF CALIFORNIA

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118743 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 07/29/2021

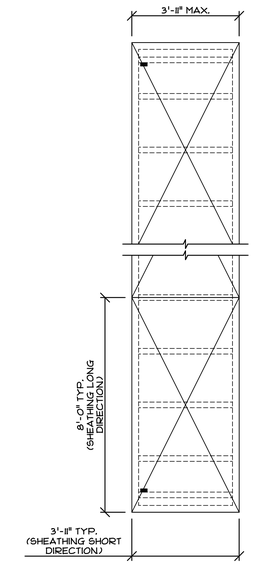
CANOPY FRAMING & CONNECTION DETAILS

REV / DATE:	BY:

JOB No.:	
DRAWN BY:	
DATE:	

WC1

12x40 P.C.



NOTES:
1) SEE 1/WC1 & L1/WC1 FOR SHEATHING FASTENING REQUIREMENTS.

2) SEE 1/WC1 & L1/WC1 FOR CANOPY SIZE OPTIONS.

1 PLAN VIEW - TYPICAL SHEATHING LAYOUT
SCALE: 3/8"=1'-0"

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DATE: 07/29/2021

CANOPY FRAMING & CONNECTION DETAILS

REV / DATE:	BY:

JOB No.:	
DRAWN BY:	
DATE:	

WC2

12'x40' P.C.

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

DESIGN VALUES

DESCRIPTION	DESIGN VALUES [1]
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME) [2]	LOAD SCENARIO= {1,2} DL = {3.5 PSF, 2.0 PSF}
ALLOWABLE SOIL PRESSURE [3, 5]	
SPREAD PAD	
VERTICAL BEARING: DL + Lr + SEISMIC (CONCRETE FOOTING)	1500 PSF
LATERAL COHESION: DL + Lr + SEISMIC (CONCRETE FOOTING)	130 PSF
DRILLED PIER	
SKIN FRICTION DOWN : DL + Lr + SEISMIC (CONCRETE FOOTING) PER 1810A.3.3.1.4	167 PSF
SKIN FRICTION (UPLIFT): DL + LR SEISMIC (CONCRETE FOOTING) PER 1810A.3.31.5	83 PSF
LATERAL BEARING: DL + Lr + SEISMIC (CONCRETE FOOTING) PER 1810A.3.3.2	100 PSF/FT
ROOF SNOW LOAD [6]	
GROUND SNOW LOAD, Pg	10 PSF
RISK CATEGORY	II
ROOF SNOW LOAD: [ ] FLAT, Pf OR [ ] LOW SLOPE, Pm OR [X] SLOPED, Ps	10 PSF
SNOW ROOF SLOPE FACTOR, Cs	1
SNOW EXPOSURE FACTOR, Ce	1.2
SNOW LOAD IMPORTANCE FACTOR, Is	1.0
THERMAL FACTOR, Ct	1.2
DRIFT SURCHARGE LOAD, Pd	0 PSF
DISTANCE FROM ADJACENT STRUCTURE, Pg = 0 PSF	4 IN
DISTANCE FROM ADJACENT STRUCTURE, Pg > 0 PSF	20 FT
ICE LOAD	0 PSF
FLOOD DESIGN	
FLOOD HAZARD AREA	NO
WIND DESIGN [4]	
BASIC WIND SPEED (3 SECOND GUST), Vult	110 MPH
EXPOSURE CATEGORY	C
TOPOGRAPHIC FACTOR, Kzt (1 MINIMUM)	1
INTERNAL PRESSURE COEFFICIENT, GCpi (IF APPLICABLE)	0.0
CLEAR WIND FLOW	YES
OBSTRUCTED WIND FLOW	YES
SEISMIC DESIGN [4]	
LATERAL FORCE-RESISTING SYSTEM	STEEL ORDINARY CANTILEVER COLUMN SYSTEM
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY (SDC)	E
SEISMIC IMPORTANCE FACTOR, Ie	1.0
DESIGN BASE SHEAR, V	Cs x W
SEISMIC RESPONSE COEFFICIENT, Cs	LOAD SCENARIO = {1,2} Cs = {0.90,1.32}
RESPONSE MODIFICATION FACTOR, R	1.25
SITE CLASS [7]	E
REDUNDANCY FACTOR, p	1.3
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Ss - USED TO DETERMINE Cs	LOAD SCENARIO = {1,2} Ss = {1.406, 2.063}
SHORT-PERIOD SITE COEFFICIENT, Fa	1.2
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Sds - USED TO DETERMINE Cs	LOAD SCENARIO = {1,2} Sds (MAX) = {1.125, 1.650}
MAPPED SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, S1	LOAD SCENARIO = {1,2} S1 = {0.844, 1.07}
LONG-PERIOD SITE COEFFICIENT, Fv	2.0
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, Sd1	LOAD SCENARIO = {1,2} Sd1 = {1.125, 1.427}
HORIZONTAL OR VERTICAL IRREGULARITIES TYPE(S)	NONE

1. IF SITE-SPECIFICDESIGN CRITERIA ARE OUTSIDE THE LIMITS OF THESE PC DRAWINGS, CONTACT POLIGON ENGINEERING TO SEE IF AN ENGINEERING LETTER, SUPPLEMENTAL DRAWINGS, AND/OR CALCULATIONS COULD BE SUBMITTED FOR A SITE-SPECIFIC SOLUTION. ANY SITE- SPECIFIC DEVIATION FROM THIS PC MAY NOT BE SUBMITTING TO DSA AS AN OVER-THE-COUNTER.
2. STRUCTURE IS NOT DESIGNED TO SUPPORT SOLAR PANELS. STRUCTURE IS NOT DESIGNED TO SUPPORT SPRINKLER SYSTEMS IN LOAD SCENARIO 2 REGIONS.
3. GEOHAZARD REPORTS ARE REQUIRED IF THE AREA COVERED UNDER THE ROOF EXCEEDS 4000 SQ FT OR IS LOCATED WITHIN STATE OR LOCAL GEOLOGIC HAZARD ZONE. VERIFY SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY CGS PRIOR TO DSA SITE APPLICATION.
4. STRUCTURAL SEPARATION BETWEEN ADJACENT STRUCTURES: RAM 20= 5.0", RAM 30= 3.0" STRUCTURAL SEPARATION BETWEEN EXISTING STRUCTURES: RAM 20= 5.5", RAM 30= 4.0"
5. WHEN PLACING MULTIPLE CANOPIES WITH PIER FOOTINGS ADJACENT TO ONE ANOTHER, THE DESIGN MAY REQUIRE AN ANALYSIS OF GROUP EFFECTS ON THE FOUNDATIONS. THE MINIMUM CLEARANCE BETWEEN CENTER OF PIERS IS EIGHT TIMES PIER DIAMETER WITHOUT AN ACCOMPANYING ENGINEERING LETTER
6. SITE APPLICATION DESIGN PROFESSIONAL AND DSA REVIEWER SHALL VERIFY THE STRUCTURE TO BE LOCATED AT LEAST 20 FEET FROM ANY HIGHER ADJACENT STRUCTURE IF GROUND SNOW IS GREATER THAN ZERO.
7. DESIGN COMPLIES WITH THE CONDITIONS OF EXCEPTION 1 OF ASCE 7-16 SECTION 11.4.8, ITEM 2.
8. APPROVED FIRE APPARATUS ACCESS ROADS SHALL EXTEND TO WITHIN 150 FEET OF ALL PORTIONS OF THE PERIMETER OF THE STRUCTURE PER CFC 503.1.1.

ARCHITECTURAL REQUIREMENTS:

DESCRIPTION	DESIGN VALUES
TYPE OF CONSTRUCTION	II B
NUMBER OF STORIES	1
FIRE SPRINKLER SYSTEM	NOT BY POLIGON

RELATED BUILDING CODES AND STANDARDS:

TITLE 24 CODES:

2022 California Administrative Code (CAC)..........................(Part 1, Title 24, CCR)
2022 California Building Code (CBC), Volumes 1 and 2 (Part 2, Title 24, CCR)
(2021 International Building Code with 2022 California amendments)
2022 California Electrical Code ....(Part 3, Title 24, CCR)
(2020 National Electrical Code with 2022 California amendments)
2022 California Mechanical Code (CMC) ....(Part 4, Title 24, CCR)
(2021 Uniform Mechanical Code with 2022 California amendments)
2022 California Plumbing Code (CPC) ....(Part 5, Title 24, CCR)
(2021 Uniform Plumbing Code with 2022 California amendments)
2022 California Energy Code ....(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)
2022 California Green Building Standards Code...................(Part 11, Title 24, CCR)
2022 California Referenced Standards Code .... (Part 12, Title 24, CCR)
Title 19 CCR, Public Safety, State Marshal Regulations

NFPA 13 - 2016
NFPA 72 - 2016

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 TUBULAR STEEL MEMBERS SUPPORTED ON CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THIS STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

INSTRUCTIONS FOR ARCHITECTS PLANNING TO SUBMIT THESE PRE-CHECKED DRAWINGS TO DSA:

STEP 1 PROJECT INFORMATION

PROJECT NAME	LODI UNIFIED SCHOOL DISTRICT - VICTOR ELEMENTARY SCHOOL	
SCHOOL DISTRICT	LODI UNIFIED SCHOOL DISTRICT	
USE AND OCCUPANCY CLASSIFICATION	A-3	**(PROPOSED OCCUPANCY: A1, A2, A3, A4, A5, B, E)**
OCCUPANT LOAD FACTOR	15	**(15 SQFT/PERSON MAX; 5 SQFT/PERSON MIN FOR ANY A OCCUPANCY 20 SQFT/PERSON MAX FOR B OR E OCCUPANCY)**
TOTAL ROOF AREA	1,920	**(MAXIMUM 4500 SQFT FOR ANY A OCCUPANCY, 10,000 SQFT FOR B OCCUPANCY, AND 5000 SQFT FOR E OCCUPANCY)**
NUMBER OF OCCUPANTS	128	**(MAXIMUM 300 FOR ANY A OCCUPANCY, 500 FOR B OCCUPANCY, AND 250 FOR E OCCUPANCY)**

STEP 2 DESIGN OPTIONS

ROOF DECK	[ ] MULTI-RIB (MR)	**DEFAULT**, WEIGHT 1.2 PSF
	[X] STANDING SEAM (SS)	WEIGHT 1.8 PSF
GUTTERS	[ ] NO	**DEFAULT**
	[X] YES	SEE RAM7.0 FOR DETAILS
ELECTRICAL ACCESS	[ ] NO	**DEFAULT**
	[X] YES	SEE RAM7.1 FOR DETAILS
CLEAR HEIGHT	[ ] 8'	**DEFAULT**
	[X] 10' OTHER	10' MAX

STEP 3 SEISMIC ACCELERATION

Ss 0 . 6 5 0 (g)
S1 0 . 2 3 0 (g)

STEP 4 SEISMIC REGIONS

0.000 < Ss <= 1.406 S1 <= 0.844	[X] WHITE	3.5 PSF MAX DEA LOAD
1.406 < Ss <= 2.063 S1 <= 1.070	[ ] GREEN	2.0 PSF MAX DEAD LOAD

STEP 5 TOTAL ROOF DEAD LOAD

ROOF DECK	1 . 8 PSF	SEE STEP 2' 'ROOF DECK FOR WEIGHTS
COLLATERAL	0 . 0 PSF	LIGHTING , FIRE SUPPRESSION, ETC.
TOTAL	1 . 8 PSF	ADD 'ROOF DECK' AND 'COLLATERAL'

STEP 6 LOAD SCENARIO

WHITE	TOTAL ROOF DEAD LAOD <= 3.5 PSF	[X] **LOAD SCENARIO 1**
GREEN	TOTAL ROOF DEAD LOAD < 2.0 PSF	[ ] **LOAD SCENARIO 2**

STEP 7 PC STRUCTURE

ROOF WIDTH <= 20	[ ] **RAM 20**
20 < ROOF WIDTH <= 30	[X] **RAM 30**

STEP 8 STRUCTURE SIZE

	RAM 20		**RAM 30**	
ROOF WIDTH	[ ] 20'	**DEFAULT**	[X] 30'	**DEFAULT**
	[ ] ________ OTHER	9' MIN; 20' MAX	[ ] ________ OTHER	20'-6" MIN; 30' MAX
ROOF LENGTH	[ ] 44'	2 BAYS	[ ] 44'	2 BAYS
	[ ] 64'	3 BAYS	[X] 64'	3 BAYS
	[ ] 84'	4 BAYS	[ ] 84'	4 BAYS
	[ ] ________ OTHER		[ ] ________ OTHER	

STEP 9 FOUNDATION TYPE

	RAM 20		**RAM 30**	
FOUNATION TYPE	[ ] SPREAD PAD	[ ] DRILLED PIER	[ ] SPREAD PAD	[X] DRILLED PIER

STEP 10 FOUNDATION SUMMARY

RAM 20		RAM 30	
[ ] LOAD SCENARIO 1 SPREAD PAD	[ ] LOAD SCENARIO 1 DRILLED PIER	[ ] LOAD SCENARIO 1 SPREAD PAD	[X] LOAD SCENARIO 1 DRILLED PIER
[ ] LOAD SCENARIO 2 SPREAD PAD	[ ] LOAD SCENARIO 2 DRILLED PIER	[ ] LOAD SCENARIO 2 SPREAD PAD	[ ] LOAD SCENARIO 2 DRILLED PIER

STEP 11 SHEET INDEX

BASE FRAME	RAM 20 SHEET INDEX				RAM 30 SHEET INDEX			
ROOF DECK	MR		SS		MR		SS	
FOUNDATION TYPE	SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER
SELECT ONE	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]
ORDER FORM	RAM1.0	RAM1.0	RAM1.0	RAM1.0	RAM1.0	RAM1.0	RAM1.0	RAM1.0
NOTES AND SPECIAL INSPECTIONS	RAM1.1	RAM1.1	RAM1.1	RAM1.1	RAM1.1	RAM1.1	RAM1.1	RAM1.1
FOUNDATION PLAN	RAM2.0	RAM2.1	RAM2.0	RAM2.1	RAM2.2	RAM2.3	RAM2.2	RAM2.3
FRAMING PLAN	RAM3.0	RAM3.0	RAM3.0	RAM3.0	RAM3.1	RAM3.1	RAM3.1	RAM3.1
FRAME CONNECTION DETAILS	RAM4.0	RAM4.0	RAM4.0	RAM4.0	RAM4.2	RAM4.2	RAM4.2	RAM4.2
SECTION DETAILS	RAM4.1	RAM4.1	RAM4.1	RAM4.1	RAM4.3	RAM4.3	RAM4.3	RAM4.3
ARCHITECTURAL VIEWS	RAM5.0	RAM5.0	RAM5.0	RAM5.0	RAM5.1	RAM5.1	RAM5.1	RAM5.1
ROOF CONNECTION DETAILS	RAM6.0	RAM6.0	RAM6.1	RAM6.1	RAM6.0	RAM6.0	RAM6.1	RAM6.1
MISC DESIGN OPTIONS	RAM7.0	RAM7.0	RAM7.0	RAM7.0	RAM7.0	RAM7.0	RAM7.0	RAM7.0
ELETRICAL CUTOUTS	RAM7.1	RAM7.1	RAM7.1	RAM7.1	RAM7.1	RAM7.1	RAM7.1	RAM7.1

STEP 12 MULTIPLE STRUCTURES

	ROOF WIDTH X LENGTH	QTY
MULTIPLE STRUCTURES		

STEP 1: GENERAL PROJECT INFORMATION

- IDENTIFY PROJECT NAME AND SCHOOL DISTRICT
- IDENTIFY USE AND OCCUPANCY CLASSIFICATION
  - THE USE AND OCCUPANCY DETERMINE THE MAXIMUM SQUARE FOOTAGE OF THE STRUCTURE
  - THE MAXIMUM SQUARE FOOTAGE IS ALSO LIMITED BY THE NUMBER OF OCCUPANTS
- IDENTIFY THE OCCUPANT LOAD PER TABLE 1004.5 IN THE CBC
- IDENTIFY TOTAL ROOF AREA WHICH SHALL NOT EXCEED ALLOWABLE AREA PER TABLE 506.2 IN THE CBC.
- IDENTIFY EXPECTED NUMBER OF OCCUPANTS BASED ON THE ESTIMATED OCCUPANT LOAD
  - TOTAL ROOF AREA DIVIDED BY OCCUPANT LOAD CAN DETERMINE NUMBER OF OCCUPANTS

STEP 2: DESIGN OPTIONS

- SELECT ROOF DECK FOR YOUR PROJECT
  - "MR" REPRESENTS MCELROY METAL "MULTI-RIB" ROOF DECK
  - "SS" REPRESENTS MCELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF DECK
- SELECT WHETHER GUTTERS AND DOWNSPOUTS FROM POLIGON IS NEEDED FOR YOUR PROJECT
  - IF "YES", THEN INCLUDE SHEET RAM7.0 IN THE DRAWING SET
- SELECT WHETHER ELECTRICAL CUTOUTS ARE NEEDED FOR YOUR PROJECT
  - SHEET RAM7.0 SHOWS ELECTRICAL CUTOUT SIZE AND LOCATION CUTOUTS IN COLUMNS
  - SHEET RAM7.1 HAS INSTRUCTIONS AND SHEET TO IDENTIFY WHICH COLUMNS
  - SHEET RAM7.1 MUST BE FILLED OUT IN THE SUBMITTAL SET APPROVED BY DSA
  - IF NOTHING IS FILLED IN ON RAM7.1, POLIGON WILL ASSUME CUTOTUS ARE ONLY IN COLUMN A1 (SEE 'FRAMING PLAN' FOR REFERENCE)
- SELECT CLEAR HEIGHT (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)
  - MIN 7'-1"; MAX 10'-0"
- **IF NOTHING IS SELECTED, POLIGON WILL ASSUME THE DEFAULT FOR EACH DESIGN OPTION**

STEP 3: IDENTIFY THE Ss & S1 ACCELERATION (g) FOR YOUR PROJECT AND GEOTECHNICAL INFORMATION

- Ss & S1 VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
- Ss & S1 VALUE DEPENDS ON PROJECT'S GEOGRAPHICAL LOCATION
  - FIND Ss & S1 VALUES FOR YOUR PROJECT IN THE SITE SPECIFIC GEOTECHNICAL REPORT
  - FIND Ss & S1 VALUES FOR YOUR PROJECT USING (https://asce7hazardtool.online/)
- THIS PC IS NOT APPROVED FOR Ss VALUES GREATER THAN 2.063 (CONTACT POLIGON FOR ADDITIONAL OPTIONS)

STEP 4: IDENTIFY THE SEISMIC REGION FOR YOUR PROJECT

- THE REGIONS ARE DEPENDANT ON THE Ss & S1 VALUE DETERMINED IN STEP 3
- THE SEISMIC REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED (SEE TABLE TO THE LEFT)

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
- TOTAL ROOF DEAD LOAD MUST BE LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4
- CUT SHEETS OF ANY BOARDS, BOXES AND EQUIPMENT TO BE MOUNTED ON THE STRUCTURE, INCLUDING WEIGHTS AND DIMENSIONS ARE REQUIRED

STEP 6: IDENTIFY THE LOAD SCENARIO

- REFERENCE THE STEP 4 COLOR AND SELECT THE APPLICABLE LOAD SCENARIO
- LOAD SCENARIOS HAVE NO IMPACT ON FRAME DESIGN OR COST, BUT DO AFFECT FOUNDATION SIZE

STEP 7: IDENTIFY PC STRUCTURE

- ROOF WIDTHS UP TO 20' WIDE USE THE "RAM 20"
- ROOF WIDTHS UP TO 30' WIDE USE THE "RAM 30"
- THE 20' AND 30' WIDTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST ECONOMICAL
- MAXIMUM WIDTH IS 30'; (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)

STEP 8: IDENTIFY SITE SPECIFIC ROOF WIDTH AND LENGTH

- DO NOT EXCEED THE TOTAL ROOF AREA FROM STEP 1 (ROOF WIDTH MULTIPLIED BY ROOF LENGTH)

STEP 9: FOUNDATION TYPE

- SELECT A FOUNDATION BASED THE DESIRED FOUNDATION TYPE
- SELECT EITHER SPREAD PAD OR DRILLED PIER FOUNDATION PRIOR TO APPROVAL
- FOUNDATION TYPE IMPACTS CONSTRUCTION (TIMING, SEQUENCE, COST, ETC.)
- FOUNDATION TYPE IMPACTS ANCHOR BOLT LENGTH (NOT PROVIDED BY POLIGON)
- REVIEW OF SITE-SPECIFIC SOILS REPORT TO EVALUATE APPLICABILITY OF FOUNDATION OPTIONS AVAILABLE

STEP 10: FOUNDATION SUMMARY

- USE THE SELECTIONS FROM STEP 6 AND STEP 9 TO SELECT THE APPROPRIATE FOUNDATION

STEP 11: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT

- IDENTIFY THE APPLICABLE SHEET INDEX
- INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL
- EXCLUDE 'MISC DESIGN OPTIONS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS
- EXCLUDE 'ELECTRICAL CUTOUTS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS

STEP 12: MULTIPLE STRUCTURES WITH THE SAME PC#

- FILL IN ROOF LENGTH AND WIDTH OF STRUCTURES AS WELL AS QUANTITY
- UNO ON THE POLIGON DRAWINGS, POLIGON WILL ASSUME ALL DESIGN CRITERIA FOR EACH STRUCTURE IS THE SAME
- CONTACT POLIGON FOR FURTHER INFORMATION

SHEET INDEX					
1	RAM1.0	ORDER FORM	11	RAM4.2	FRAME CONNECTION DETAILS - RAM 30
2	RAM1.1	NOTES AND SPECIAL INSPECTIONS	12	RAM4.3	SECTION DETAILS - RAM 30
3	RAM2.0	FOUNDATION PLAN SPREAD PAD - RAM 20	13	RAM5.0	ARCHITECTURAL VIEWS - RAM 20
4	RAM2.1	FOUNDATION PLAN DRILLED PIER - RAM 20	14	RAM5.1	ARCHITECTURAL VIEWS - RAM 30
5	RAM2.2	FOUNDATION PLAN SPREAD PAD - RAM 30	15	RAM6.0	ROOF CONNECTION DETAILS
6	RAM2.3	FOUNDATION PLAN DRILLED PIER - RAM 30	16	RAM6.1	ROOF CONNECTION DETAILS
7	RAM3.0	FRAMING PLAN - RAM 20	17	RAM7.0	MISC DESIGN OPTIONS
8	RAM3.1	FRAMING PLAN - RAM 30	18	RAM7.1	ELECTRICAL CUTOUTS
9	RAM4.0	FRAME CONNECTION DETAILS - RAM 20			
10	RAM4.1	SECTION DETAILS - RAM 20			
TOTAL SHEETS = 18					

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MR	MULTI-RIB ROOF PANEL (MCELROY)
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	NTS	NOT TO SCALE
ASM	ASSEMBLY (INTERNAL REFERENCE)	NO	NUMBER
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	OC	ON CENTER
AWS	AMERICAN WELDING SOCIETY	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADM.
CBC	CALIFORNIA BUILDING CODE	PCF	POUNDS PER CUBIC FOOT
CJP	COMPLETE JOINT PENETRATION	PD	POLIGON DRAWING
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
MPH	MILES PER HOUR		

SPECIFICATIONS

PART 1 - GENERAL

1.1 STRUCTURE DESCRIPTION
A. STRUCTURE(S) BASED ON THE FOLLOWING PC DESIGN(S):
1. HIP ROOF (RAM)

1.2 DESIGN REQUIREMENTS
A. MEET THE DESIGN INTENT SHOWN ON THE PC DRAWINGS APPROVED FOR THIS PROJECT.
1. DESIGN CRITERIA
2. MEMBERS SIZES
3. HIDDEN BOLTED CONNECTIONS BETWEEN STRUCTURAL MEMBERS
4. COLUMN ANCHORAGE SHALL INCLUDE FOUR (4) BOLTS IN COMPLIANCE WITH OSHA 1926.755(A)(1).
5. NO FIELD WELDING PERMITTED
6. NO FIELD PAINTING PERMITTED
7. ROOF DIMENSIONS AND SLOPES
8. EXPOSED STEEL ROOF FASTENERS (IF APPLICABLE) POWDER COATED BY MANUFACTURER
9. ROOF DECK SPANS FROM PEAK TO EAVE AND PERMITS PROPER DRAINAGE WITHOUT DEBRIS BUILD-UP.

1.3 SUBMITTALS
A. DRAWINGS AND CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE APPROPRIATE STATE.
B. ONLY MANUFACTURERS THAT SUBMIT DRAWINGS AND CALCULATIONS PRIOR TO BID SHALL BE CONSIDERED.
C. MANUFACTURER MUST BE ABLE TO SUBMIT APPROPRIATE LABORATORY TESTS FOR THE FOLLOWING:
1. FRAME FINISH REQUIREMENTS LISTED IN PART 2 OF THIS SPECIFICATION.
2. CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL (DESCRIBING THE CHEMICAL AND PHYSICAL PROPERTIES).
3. CERTIFIED MILL TEST REPORTS FOR STRUCTURAL BOLTS.

1.4 TECHNICAL SUPPORT
A. MANUFACTURER MUST HAVE IN-HOUSE ENGINEERING DEPARTMENT AND A PROFESSIONAL ENGINEER LICENSED IN THE APPROPRIATE STATE TO ANSWER TECHNICAL QUESTIONS.

1.5 QUALITY ASSURANCE
A. GENERAL
1. FABRICATION PROCEDURES SHALL COMPLY WITH APPLICABLE CODES AND LOCAL REGULATIONS.
2. REQUIRED STRUCTURAL TESTS AND SPECIAL INSPECTIONS INCLUDED ON THE PROJECT DSA-103 FORM.
B. MANUFACTURER QUALIFICATIONS
1. MINIMUM (10) YEARS ENGINEERING AND FABRICATING PRE-ENGINEERED STRUCTURES
2. MANUFACTURER OWNED AND OPERATED POWDER COAT PAINT FINISH SYSTEM
3. ALL AWS CERTIFIED WELDERS
4. FULL-TIME PROFESSIONAL ENGINEER ON STAFF LICENSED IN THE APPROPRIATE STATE
5. FULL-TIME AWS CERTIFIED ASSOCIATE WELDING INSPECTOR ON STAFF
6. FULL-TIME QUALITY ASSURANCE MANAGER ON STAFF
7. FULL-TIME LEED AP ON STAFF
C. MANUFACTURER CERTIFICATIONS
1. PCI 4000 CERTIFICATION THROUGH POWDER COATING INSTITUTE (PCI)
2. AISC CERTIFIED FABRICATOR

1.6 MANUFACTURER WARRANTY
A. STRUCTURE MUST HAVE (10) YEAR LIMITED WARRANTY ON STEEL FRAME MEMBERS.
B. STRUCTURE MUST HAVE (10) YEAR LIMITED WARRANTY ON PAINT SYSTEM.
C. PASS THROUGH WARRANTY OF ROOFING MANUFACTURER SHALL BE PROVIDED UPON REQUEST.

PART 2 - PRODUCTS

2.1 MANUFACTURER
A. ACCEPTABLE MANUFACTURERS
1. POLIGON, A DIVISION OF PORTERCORP.
A. 4240 N 136TH AVE., HOLLAND, MI 49424; (616) 399-1963; WWW.POLIGON.COM .
I. FOR POLIGON STRUCTURES IN *NORTHERN CALIFORNIA*, THE LOCAL REPRESENTATIVE IS ALL ABOUT PLAY (WWW.PLAYGROUNDPROS.COM). EMAIL AAP@PLAYGROUNDPROS.COM OR CALL (916) 923-2180
II. FOR POLIGON STRUCTURES IN *SOUTHERN CALIFORNIA*, THE LOCAL REPRESENTATIVE IS MIRACLE PLAYGROUND SALES (MIRACLEPLAYGROUNDSALES.COM EMAIL SALES@MIRACLEPLAYGROUND.COM OR CALL (951) 695-4515
B. SUBSTITUTION LIMITATIONS
1. THE ENGINEERING FOR THIS STRUCTURE IS ONLY APPLICABLE IF POLIGON SUPPLIES THE MATERIAL.
2. IF THE CONTRACTOR ELECTS TO SUBSTITUTE A DIFFERENT STRUCTURE, THEY ARE RESPONSIBLE TO OBTAIN THE NECESSARY DSA APPROVAL WITH:
A. NO COST TO THE DISTRICT OR ARCHITECT
B. NO CHANGE TO THE CONSTRUCTION SCHEDULE
3. SUBSTITUTIONS MUST BE APPROVED A MINIMUM OF (10) DAYS BEFORE BID.
4. ALL APPROVED MANUFACTURERS SHALL BE NOTIFIED IN WRITING BEFORE THE BID DATE.
5. SUBSTITUTE MANUFACTURERS SHALL NOT BE ALLOWED TO BID WITHOUT WRITTEN NOTIFICATION.
6. SUBSTITUTE MANUFACTURERS MUST MEET "MANUFACTURER QUALIFICATIONS" LISTED IN PART 1 OF THIS SPECIFICATION.
7. SUBSTITUTE MANUFACTURERS MUST PROVIDE PROOF OF "MANUFACTURER CERTIFICATIONS" ABOVE.
8. SUBSTITUTE MANUFACTURERS MUST PROVIDE PAINT FINISH DESCRIBED IN "FRAME FINISH" BELOW.

2.2 FRAME
A. MATERIALS
1. ANCHOR BOLTS: SEE DRAWINGS FOR REQUIREMENTS. ANCHOR BOLTS NOT PROVIDED BY MANUFACTURER
2. STRUCTURAL STEEL: SEE DRAWINGS FOR REQUIREMENTS.
3. STRUCTURAL BOLTS: SEE DRAWINGS FOR REQUIREMENTS.
B. FINISH
1. FRAME FINISH: POLI-5000 POWDER COAT. NO FIELD PAINTING PERMITTED.
A. COMPONENTS SHALL BE CLEANED, PRE-TREATED, AND FINISHED AT A FACILITY OWNED AND DIRECTLY SUPERVISED BY THE MANUFACTURER.
B. COMPONENTS SHALL BE SHOT BLASTED TO SSPC-SP10 NEAR-WHITE BLAST CLEANING. SSPC-SP2 HAND TOOL CLEANING WILL NOT BE AN ACCEPTABLE ALTERNATIVE.
C. COMPONENTS SHALL BE PRETREATED IN A (3) STAGE IRON PHOSPHATE OR EQUAL WASHER.
D. COMPONENTS SHALL RECEIVE EPOXY PRIMER COAT FOR SUPERIOR CORROSION PROTECTION.
E. COMPONENTS SHALL RECEIVE TOP COAT OF SUPER DURABLE TGIC POWDER COAT.
F. FINISH SHALL NOT HAVE ANY VOC EMISSIONS.
G. MANUFACTURER SHALL BE ABLE TO PRODUCE DOCUMENTATION STATING SAMPLE PRODUCTION COMPONENTS HAVE BEEN TESTED TO MEET THE FOLLOWING:
I. SALT SPRAY RESISTANCE PER ASTM B 117/ ASTM D 1654 TO 10,000 HOURS WITH NO CREEP FROM SCRIBE LINE AND RATING OF 10.
II. HUMIDITY RESISTANCE PER ASTM D2247-02 TO 5,000 HOURS WITH NO LOSS OF ADHESION OR BLISTERING.
III. COLOR/UV RESISTANCE PER ASTM G154-04 TO 2,000 HOURS EXPOSURE, ALTERNATE CYCLES WITH RESULTS OF NO CHALKING, 75% COLOR RETENTION, COLOR VARIATION MAXIMUM 3.0 E VARIATION CIE FORMULA (BEFORE AND AFTER 2,000 HOURS EXPOSURE).
2. FRAME COLOR: DETERMINED BY DISTRICT.
C. FABRICATION
1. FABRICATE COMPONENTS TO PERMIT BOLTED CONNECTIONS ON SITE. NO FIELD WELDING PERMITTED.
2. LABEL EACH MEMBER WITH UNIQUE PART NUMBER TO STREAMLINE ERECTION.
3. WELDING REQUIREMENTS: SEE DRAWINGS FOR REQUIREMENTS.

2.3 ROOF
A. MATERIALS
1. ROOF MATERIAL: SEE DRAWINGS FOR REQUIREMENTS.
2. ROOF HARDWARE: SEE DRAWINGS FOR REQUIREMENTS.
B. FINISH
1. ROOF FINISH: KYNAR 500 HIGH-PERFORMANCE RESIN-BASED PAINT.
2. ROOF COLOR: DETERMINED BY OWNER.

2.4 MISCELLANEOUS
A. MATERIALS
1. CONCRETE MATERIAL: SEE DRAWINGS FOR REQUIREMENTS. CONCRETE NOT PROVIDED BY MANUFACTURER.

PART 3 - EXECUTION

3.1 STORAGE AND HANDLING
A. PROTECT MATERIAL AFTER DELIVERY FROM WEATHER, SUNLIGHT, AND DAMAGE.
B. ELEVATE MATERIAL TO ALLOW CIRCULATION AND REDUCE MOLD, FUNGI DECAY, AND INSECT INFESTATION.
C. HANDLE MATERIAL WITH PROTECTIVE STRAPS OR PADDED FORKLIFT. HANDLING MATERIAL WITH CHAIN OR CABLE WILL NOT BE ACCEPTED AND MAY VOID MANUFACTURER'S WARRANTY.
D. TO PREVENT MOISTURE DAMAGE TO ANY WOOD MATERIAL (IF APPLICABLE), KEEP WOOD PACKAGED BEFORE INSTALLATION AND COVER IMMEDIATELY WITH ANY SECONDARY ROOF MATERIAL.

3.2 ERECTION
A. INSTALL COMPONENTS ACCORDING TO MANUFACTURER'S INSTALLATION DRAWINGS AND THESE SPECIFICATIONS.
B. ANCHOR BOLT AND COLUMN LAYOUT IS CRITICAL.
C. **COMPLY WITH SPECIFIC BOLTING INSTALLATION REQUIREMENTS PROVIDED ON DRAWINGS REQUIRING THE CONTRACTOR TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD *PRIOR TO THE ERECTION OF THE FRAME.***
D. NO FIELD SLOTTING OR OPENING OF HOLES WILL BE ALLOWED. TOLERANCES ON STEEL STRUCTURAL MEMBERS ARE SET ACCORDING TO AISC CONSTRUCTION PRACTICES, FOLLOWED DURING FABRICATION, AND CANNOT BE INCREASED.
E. AFTER INSTALLATION, RESTORE DAMAGED SURFACES TO THE ORIGINAL CONDITION USING TOUCH-UP PAINT PROVIDED BY MANUFACTURER. IF THE ARCHITECT DOES NOT ACCEPT THAT, REPLACE DAMAGED MATERIAL AT NO COST TO THE DISTRICT.
F. COORDINATE AS REQUIRED WITH OTHER DISCIPLINES (ELECTRICAL, PLUMBING, ETC.)
G. COMPLY WITH ALL APPLICABLE OHSA REQUIREMENTS

3.3 REPAIR
A. DO NOT ATTEMPT ANY FIELD CHANGES TO THE STRUCTURE WITHOUT FIRST CONTACTING THE MANUFACTURER.

3.4 QUALITY CONTROL
A. TESTS AND INSPECTIONS DURING ERECTION ARE NOT REQUIRED BY THE MANUFACTURER, BUT MAY BE REQUIRED BY OTHERS.
B. THE PROJECT INSPECTOR, AND ENTIRE CONSTRUCTION OVERSIGHT PROCESS, SHALL COMPLY WITH DSA PR 13-01. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

STATE APPROVALS-SITE

4080 PLAZA GOLDORADO CIRCLE
SUITE B
CAMERON PARK, CA 95682
530.677.5515
GHD

poligon
PORTER

REGISTERED PROFESSIONAL ENGINEER
JESSICA E. NAPIER
No. S5476
STRUCTURAL
STATE OF CALIFORNIA

STATE APPROVALS-PC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121213 PC
REVIEWED FOR
SS [X] FLS [X] ACS [X] CG [ ]
DATE: 7/18/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

ORDER FORM

HIP ROOF - RAM

RAM1.0

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects

R221551X01

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
ORDER FORM

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/23** CLIENT PROJ NO: **R221551X01**

SHEET:

RAM1.0

Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
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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 OTHER LOCAL, 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 VISITS 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.
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'S INSPECTOR OF 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 REQUIRMENTS.
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.
14. OTHER SITE SPECIFIC ITEMS MAY BE REQUIRED.
15. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360 - 16 AND 303-16 MANUAL REFERENCED BY THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE.
2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 ksi, GRADE B UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A500, GRADE B (OR HIGHER), Fy = 46 KSI.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESSES CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, PLATES AND MISC. STEEL SHALL CONFORM TO ASTM A36, Fy = 36 KSI.
6. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A653, CS = TYPE B, Fy = 50 KSI.
7. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
8. ROOF DECK SHALL HAVE KYNAR 5000 METAL COATING.
9. ROOF DECK SHALL CONFORM TO ATSM A792, Fy = 50 KSI.
10. MR ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.31" (FLAT-TO-FLAT) AND INTEGRAL WASHER DIMENSION OF 0.58" (OUTSIDE DIAMETER).
11. SS ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.437" (OUTSIDE DIAMETER).

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.
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 @ (O° 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 ASTM F3125 (A325 TYPE 1) HIGH STRENGTH BOLTS (UNO) AND SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329.
2. HIGH STRENGTH BOLTS SHALL BE SAMPLED AND TESTED IN COMPLANCE WITH CBC 2213A.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. ANCHOR BOLTS (HEAVY HEX HEAD, ASTM F1554, GRADE 55) SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329. ANCHOR BOLTS MAY BE HEADED OR THREADED WITH A NUT THAT IS PREVENTED FROM ROTATING.
5. HIGH STRENGTH NUTS SHALL CONFORM TO ASTM A563 AND SHALL BE GALVANIZED PER ASTM F2329.
6. HIGH STRENGTH WASHERS SHALL CONFORM TO ASTM F436 AND SHALL BE GALVANIZED PER ASTM F2329.
7. 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**. ALL BOLTS SHALL BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.
   - A. PRETENSIONED JOINTS (IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH A "PJ REQUIRED") MUST BE INSTALLED AND INSPECTED TO MEET ONE OF FOLLOWING REQUIREMENTS:
     1. TURN-OF-NUT PRETENSIONING
     2. CALIBRATED WRENCH PRENTENSIONING
     3. DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)
   - B. ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF SNUG-TIGHTENED JOINTS. **NOTE TO INSTALLER AND INSPECTOR(S): THE SNUG-TIGHT CONDITION EXISTS, IN PART, WHEN ALL THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.**

THE CONTRACTOR, SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD MUST ALL AGREE ON WHICH APPROACH WILL BE USED TO PRETENSION THE BOLTS. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THE APPROACH AGREED TO BY ALL PARTIES LISTED ABOVE.

FOUNDATIONS:

1. ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER 2022 CBC TABLE 1806A. 2.
2. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D1557. FLOODING NOT PERMITTED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECCESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
4. STRUCTURES SHALL BE SETBACK FROM ADAJCENT SLOPES TO PROVIDE FIRM MATERIAL FOR EMBEDMENT AND FOR PROTECTION FROM SLOPE DRAINAGE, EROSION, AND SHALLOW FAILURES.
   - A. BOTTOM OF ASCENDING SLOPE: THE SMALLER OF HALF THE HEIGHT OF THE SLOPE AND 15FT MEASURED FROM THE FACE OF THE STRUCTURE TO THE TOE OF THE SLOPE
   - B. TOP OF DECENDING SLOPE: THE SMALLER OF A THIRD OF THE HEIGHT OF THE SLOPE AND 40 FT MEASURED FROM THE FACE OF THE FOOTING TO THE TOP OF THE SLOPE

   ALTERNATE SETBACKS ARE PERMITTED, SUBJECT FOR APPROVAL. A GEOTECHNICAL INVESTIGATION MAY BE REQUIRED.
5. STRUCTURES PLACED ON LIQUIFIABLE SOILS OR SITE CLASS F MAY NOT BE SUBMITTED FOR AN OVER THE COUNTER REVIEW.

CONCRETE:

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

MINIMUM STRENGTH f'c (28 DAYS)	EXPOSURE CATEGORY	W/C RATIO MAXIMUM)	SLUMP (± 1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	F3, S3, W2, C2	0.4	4"	150 PCF

2. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA
3. AGGREGATES SHALL CONFORM TO ASTM C33. MAX AGGREGATE SIZE = 1".
4. CEMENT SHALL CONFORM TO ASTM C150 (TYPE V) WITH A MAXIMUM EXPANSION OF 0.040%, FOR SULFATE RESISTANCE.
5. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE PROHIBITED.
6. CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318-19 SECTION 19.3.3.
7. 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.
8. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
9. CONCRETE SHALL BE PROPORTIONED PER ACI 318-19 26.4.
10. CONCRETE SHALL BE TESTED PER CBC 1910A.1, 1705A.3, AND ACI 318-19 26.13. BATCH PLANT INSPECTION NOT REQUIRED. CONTRACTOR SHALL IMPLEMENT WEIGHTMASTER AND BATCH TICKET REQUIREMENTS OF CBC 1705A.3.3.1.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615, (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305) 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"
   - E. COLUMNS AND BEAMS (MAIN BARS)...................... 2"
   - F. WALLS EXPOSED TO WEATHER (#6-#18 BARS)......... 2"
     (#5 & SMALLER)......... 11/2"
   - G. NOT EXPOSED TO WEATHER (#11 & SMALLER)........ 3/4"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. FOR #6 BARS AND SMALLER, REINFORCING SHALL BE LAP SPLICED 45 BAR DIA MINIMUM IN CONCRETE. FOR #7 BARS AND LARGER, REINFORCING SHALL BE LAP SPLICED 55 BAR DIAMETERS MINIMUM IN CONCRETE. ALL LAP SPLICES MUST COMPLY WITH ACI 318-19.
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 SAMPLED AND TESTED PER CBC 1910A.2.

POWDER COATED AND EPOXY PRIMED FINISH:

1. ENTIRE POWDER COATING PROCESS COMPLETED IN SAME FACILITY AS STEEL FABRICATION.
2. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3" (UNLESS NOTED OTHERWISE).
3. PARTS PRETREATED IN A 3 STAGE IRON PHOSPHATE WASHER (OR EQUAL).
4. EPOXY PRIMER POWDER COAT APPLIED TO PARTS FOR SUPERIOR CORROSION PROTECTION.
5. TOP POWDER COAT OF SUPER DURABLE TGIC (COLOR SELECTED FROM MANUFACTURER'S STANDARD OPTIONS OR CUSTOM COLOR).
6. SAMPLE PRODUCTION PARTS TESTED TO MEET THE FOLLOWING CRITERIA:
   - A. SALT SPRAY RESISTANCE PER ASTM B 117/ ASTM D 1654
     1. 10000 HOURS WITH NO CREEP FROM SCRIBE LINE AND RATING OF 10
   - B. HUMIDITY RESISTANCE PER ASTM D2247-02
     1. 5000 HOURS WITH NO LOSS OF ADHESION OR BLISTERING
   - C. COLOR/UV RESISTANCE PER ASTM G154-04
     1. 2000 HOURS EXPOSURE ALTERNATE CYCLES WITH NO CHALKING, 75% COLOR RETENTION, AND COLOR VARIATION MAXIMUM 3.0 E VARIATION CIE FORMULA (BEFORE AND AFTER 2000 HOURS EXPOSURE

CONSTRUCTION NOTES

1. A DSA-CERTIFIED CLASS 2 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 REQURIED BY SECTION 4-338, PART 1, TITLE 24 CCR AND DSA IR A-6.
3. A "DSA-CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE OWNER (E.G. DISTRICT, ETC.) 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 OWNER (E.G. DISTRICT, ETC.) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEER RESPONIBILITY

1. FOR THE SITE-SPECIFIC PROJECT, NEITHER POLIGON OR GHD ARE THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
2. FOR THE SITE-SPECIFIC PROJECT, GHD AND POLIGON'S RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE STRUCTURES OF THIS PC ONLY.
3. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM GHD AND POLIGON'S RESPONSIBILITY FOR THE SITE-SPECIFIC PROJECT.
4. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING MAY BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATIONS OF CONSTRUCTION, REVIEW OF INSPECTIONS REPORTS, AND SIGNING OFF ON THE VERIFIED REPORT FOR COMPLETED WORK.
5. POLIGON WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE STRUCTURES OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

SPECIAL INSPECTION NOTES:

1. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE SELECTED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
2. COSTS OF THE PROJECT INSPECTOR AND THE TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
3. THE PROJECT INSPECTOR, AND ENTIRE CONSTRUCTION OVERSIGHT PROCESS, SHALL COMPLY WITH DSA PR 13-01.
4. ON APPROVED PC DRAWINGS, THE STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS (FORM DSA-103) BELOWIS ONLY AN EXAMPLE. ON APPROVED PC DRAWINGS, THE EXAMPLE FORM DSA-103 MUST BE CROSSED OUT BEFORE THE PC DRAWINGS CAN BE APPROVED AS PART OF A SITE-SPECIFIC (OR STOCKPILE) PROJECT SO THEY WILL NOT CONFLICT WITH THE OFFICIAL FORM DSA-103 FOR THE PROJECT.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number:	School Name:	School District:
DSA File Number:	Increment Number:	Date Submitted:

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** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. **LOR** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. **PI** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. **SI** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

	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.	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

	S2. SOIL COMPACTION AND FILL:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

	S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Verify pier locations, diameters, plumbness, and lengths. Record concrete or grout volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**c.** Concrete piers.	Provide tests and inspections per CONCRETE section below.		

	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.** Identifiy, 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 plan 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 **1705.A.3.3.1**, or eliminated per **1705A.3.3.2**. See IR 17-13. (See Appendix (end of this form) for exemptions.)

	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**).

	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.

	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.

	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.

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

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293
2. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
3. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

STATE APPROVALS-SITE

4080 PLAZA GOLDORADO CIRCLE
SUITE B
CAMERON PARK, CA 95682
530.677.5515

GHD

poligon

PORTER CORP

REGISTERED PROFESSIONAL ENGINEER
JESSICA E. NAPIER
No. S5476
STRUCTURAL
STATE OF CALIFORNIA

STATE APPROVALS-PC

IDENTIFICATION STAMP
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NOTES AND SPECIAL INSPECTIONS

HIP ROOF - RAM

RAM1.1

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HMC Architects

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C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

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ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:

VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:

VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:

NOTES AND SPECIAL INSPECTIONS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/23** | CLIENT PROJ NO: **R221551X01**

SHEET:

RAM1.1

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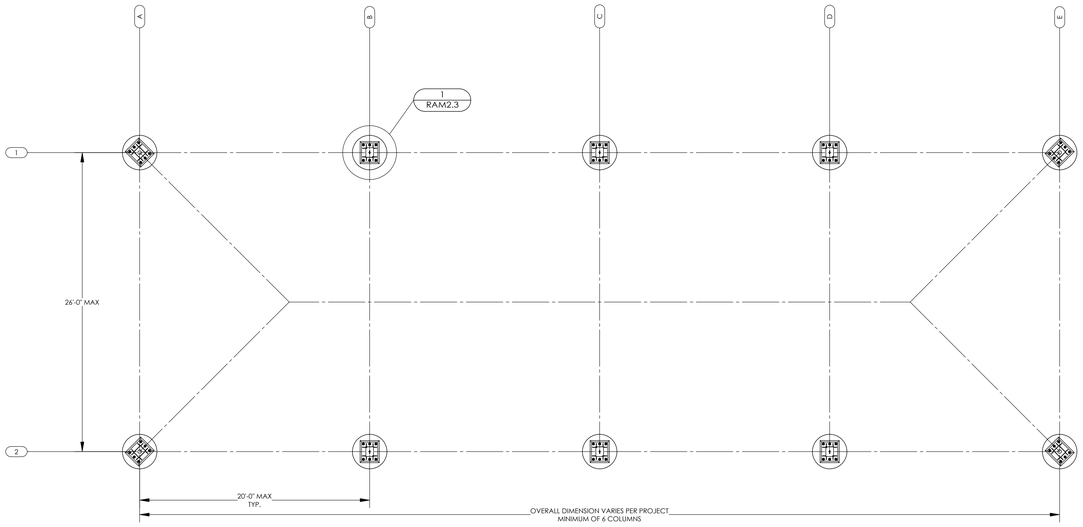
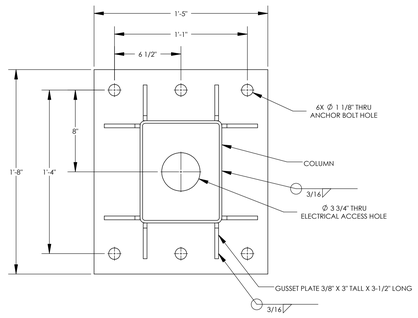


FOUNDATION PLAN (DRILLED PIER)

SCALE: 3/16" = 1'-0"

FOUNDATION PLAN NOTES:

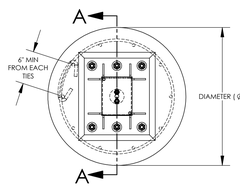
1. TOP OF ALL FOUNDATIONS MUST BE CONSTRUCTED AT ONE COMMON ELEVATION (COORDINATE WITH SITE PLANS - NOT BY POLIGON)
2. ALL FOUNDATIONS MUST BE CENTERED UNDER COLUMNS (UNO).
3. SEE SHEET RAM1.1 FOR CONCRETE REQUIREMENTS.
4. PRIOR TO FORMING AND CASTING FOUNDATIONS, REVIEW FOUNDATION PLAN FOR REQUIRED ORIENTATION.
5. FOUNDATION MATERIAL AND INSTALLATION NOT BY POLIGON.
6. VIBRATE CONCRETE FULL DEPTH OF FOUNDATION.
7. FOR DRILLED PIER FOUNDATIONS, PREVENT SOIL FROM ENTERING EXCAVATED HOLE (FORM, ETC).



DETAIL 3

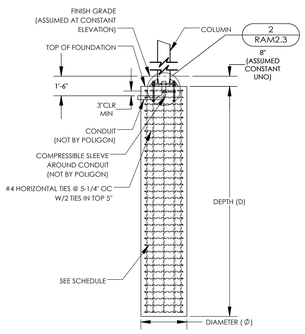
SCALE: 1-1/2" = 1'-0"

COLUMN BASEPLATE 3



DETAIL 1

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



SECTION A-A

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

FOUNDATION REQUIREMENTS VARY PER PROJECT

SEE SHEET RAM1.0 FOR REQUIRED LOAD SCENARIO AND FOUNDATION TYPE (STEP 9 OF 'INSTRUCTIONS')

ONLY REFERENCE COPY OF PC DRAWINGS SUBMITTED FOR THIS PROJECT

DRILLED PIER

SIZE AND REINFORCING REQUIREMENTS

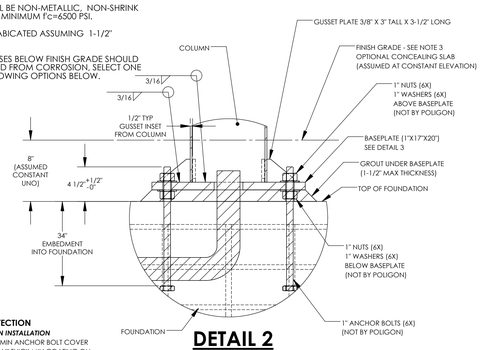
LOAD SCENARIO	DIAMETER (Ø)	DEPTH (D)	VERTICAL REINFORCING[1]	
			QTY	SIZE
1	3'-0"	13'-0"	10	#7
~~2~~	~~3'-0"~~	~~15'-0"~~	~~10~~	~~#7~~

[1] EQUALLY SPACED AROUND DRILLED PIER

DRILLED PIER FOUNDATION 1

NOTES:

1. GROUT SHALL BE NON-METALLIC, NON-SHRINK GROUT WITH MINIMUM f'c=6500 PSI.
2. COLUMNS FABICATED ASSUMING 1-1/2" GROUT PAD.
3. COLUMN BASES BELOW FINISH GRADE SHOULD BE PROTECTED FROM CORROSION. SELECT ONE OF THE FOLLOWING OPTIONS BELOW.



COLUMN BASE PROTECTION

BELOW SURFACE COLUMN INSTALLATION

[ ] CONCRETE SLAB - 3" MIN ANCHOR BOLT COVER

[ ] MASTIC COATING - 1/4" THICK MIN COATING ON ALL STEEL SURFACES BELOW GRADE

DETAIL 2

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

COLUMN BASEPLATE AND ANCHOR BOLTS 2

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4005 P-AZ/GOLDCR-UDC-3 PACE
SUITE B1
CAMPTON PARK, CA 95382
916.877.7015

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JESSICA E. NAPIER
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FOUNDATION PLAN DRILLED PIER

HIP ROOF - RAM 30

RAM2.3

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C-14648
5/31/25
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STATE OF CALIFORNIA

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SACRAMENTO, CA, 95816
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Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:

VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:

VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:

FOUNDATION PLAN DRILLED PIER

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/23** CLIENT PROJ NO: **R221551X01**

SHEET:

RAM2.3

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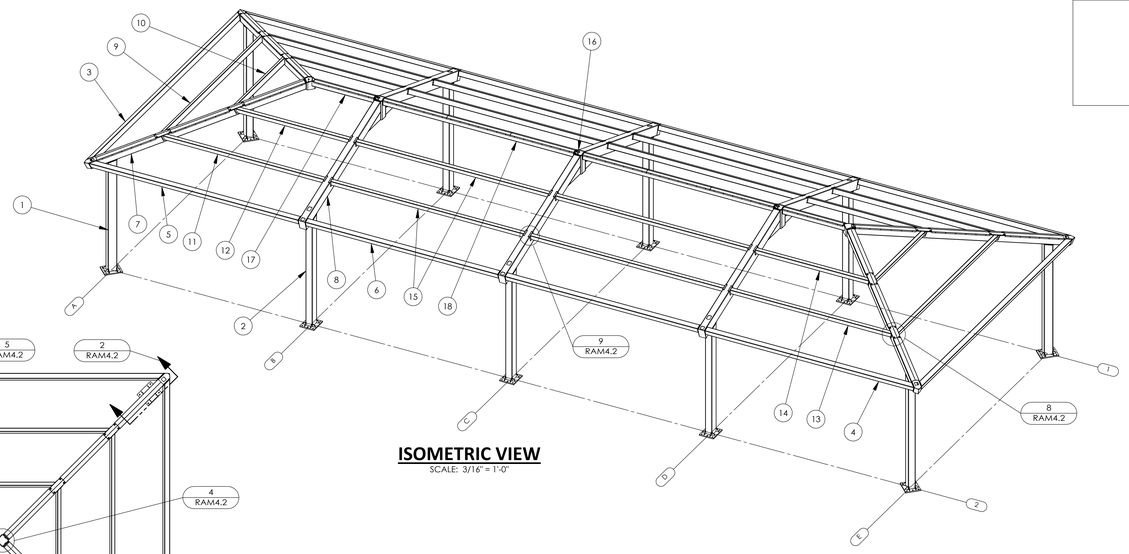
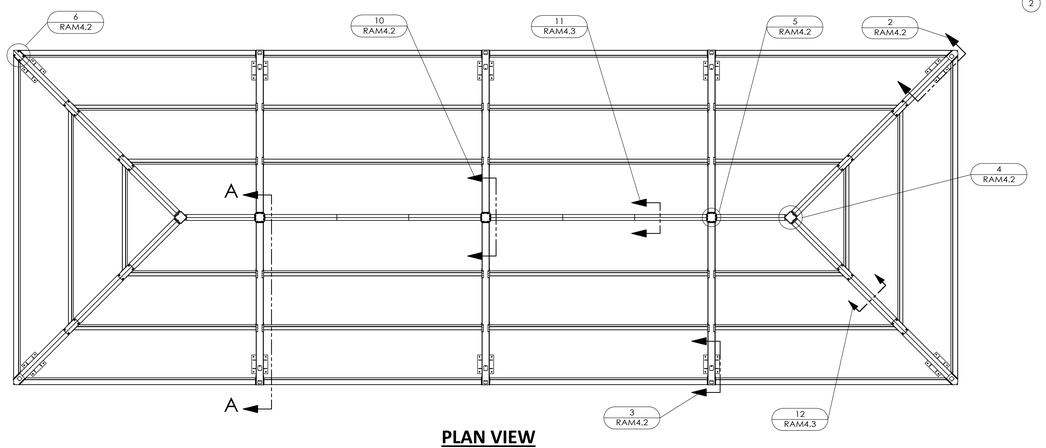
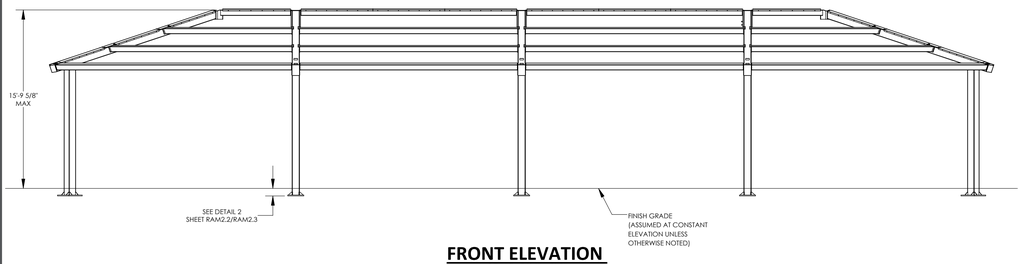


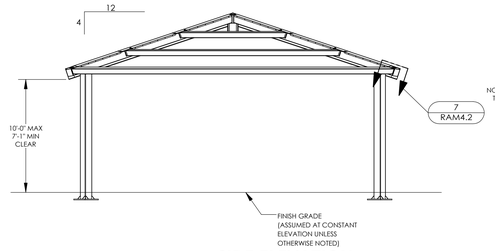
ISOMETRIC VIEW
SCALE: 3/16" = 1'-0"



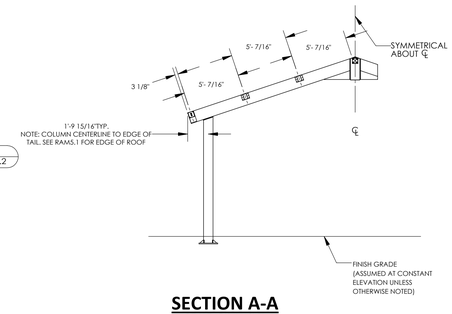
PLAN VIEW
SCALE: 3/16" = 1'-0"



FRONT ELEVATION
SCALE: 3/16" = 1'-0"



SIDE ELEVATION
SCALE: 3/16" = 1'-0"



SECTION A-A
SCALE: 3/16" = 1'-0"

ITEM	QTY.	PART NO.	DESCRIPTION	MATERIAL	WEIGHT
18	2	-	R-BEAM ASM	HSS6X6X3/16	287.26
17	2	-	END R-BEAM ASM	HSS6X6X3/16	154.14
16	6	-	C-TUBE ASM	HSS10X10X5/8	143.92
15	8	-	SIDE PURLIN ASM	HSS6X4x3/16	234.29
14	2	-	CORNER PURLIN ASM	HSS6X4x3/16	136.79
13	2	-	CORNER PURLIN ASM	HSS6X4x3/16	193.62
12	2	-	CORNER PURLIN ASM	HSS6X4x3/16	136.94
11	2	-	CORNER PURLIN ASM	HSS6X4x3/16	193.78
10	2	-	END PURLIN ASM	HSS6X4x3/16	110.56
9	2	-	END PURLIN ASM	HSS6X4x3/16	224.23
8	6	-	GABLE BEAM ASM	HSS12X8X1/4	559.76
7	4	-	HIP BEAM ASM	HSS8X8X3/16	431.12
6	4	-	SIDE EAVE BEAM ASM	HSS6X6X3/16	284.96
5	2	-	CORNER EAVE BEAM ASM	HSS6X6X3/16	306.07
4	2	-	CORNER EAVE BEAM ASM	HSS6X6X3/16	306.00
3	2	-	END EAVE BEAM ASM	HSS6X6X3/16	413.48
2	6	-	SIDE COLUMN ASM	HSS10X8X1/4	425.36
1	4	-	CORNER COLUMN ASM	HSS10X8X1/4	433.63

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PALM BEACH GARDENS, FL 33418
561.627.8100

GHD
SUITE 11
CHATSWORTH, CA 91311
530.677.8515

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PORTER

REGISTERED PROFESSIONAL ENGINEER
JESSICA E. NAPIER
No. S5476
STRUCTURAL
STATE OF CALIFORNIA

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

FRAMING PLAN

HIP ROOF - RAM 30

RAM3.1

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HMC Architects

R221551X01

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SACRAMENTO, CA, 95816
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LICENSED ARCHITECT
JEFFREY ALAN GRAD
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

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Δ	DESCRIPTION	DATE

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17670 BRUELLA ROAD
LODI, CA 95240

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SHEET NAME:
FRAMING PLAN

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: 10/26/23

CLIENT PROJ NO: R221551X01

SHEET:

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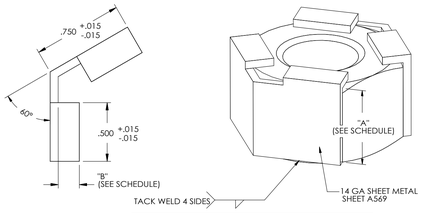
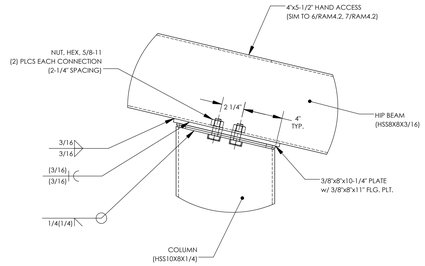
ALL HIDDEN NUTS AND BOLTS (INSTALLED IN SHOP DURING FABRICATION) ARE SECURED WITH THIS NUT AND BOLT RESTAINING SYSTEM.

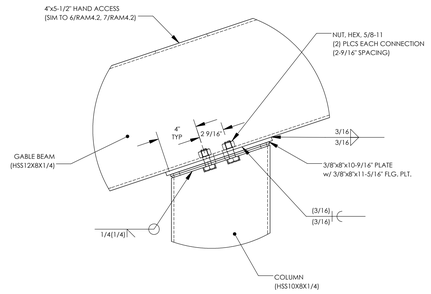


DIMENSION SCHEDULE				
FASTENER	DIM A		DIM B	
5/8" NUT	.631	+.000 -.015	.180	+.015 -.015
5/8" BOLT	.403	+.000 -.015	.250	+.015 -.015
3/4" NUT	.758	+.000 -.015	.180	+.015 -.015
3/4" BOLT	.483	+.000 -.015	.375	+.015 -.015
1" NUT	1.012	+.000 -.015	.180	+.015 -.015
1" BOLT	.643	+.000 -.015	.375	+.015 -.015

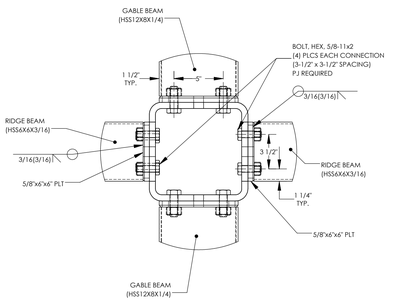
NUT & BOLT RESTRAINING SYSTEM 1



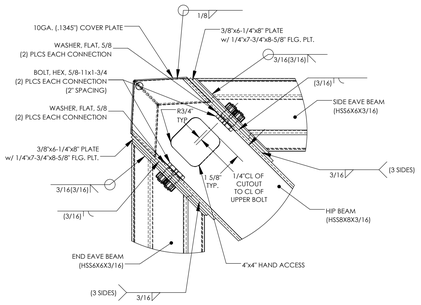
HIP BEAM CONNECTION @ COLUMN 2



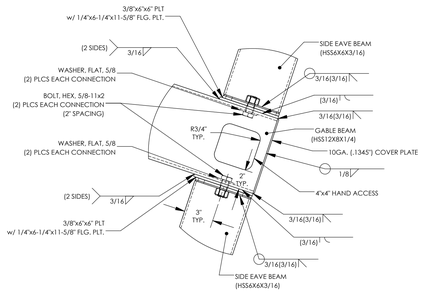
GABLE BEAM CONNECTION @ COLUMN 3



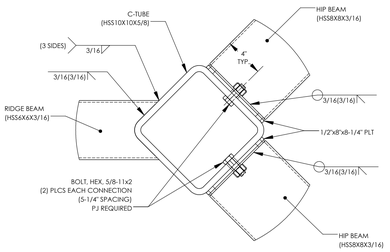
RIDGE BEAM CONNECTION @ COMPRESSION TUBE 5



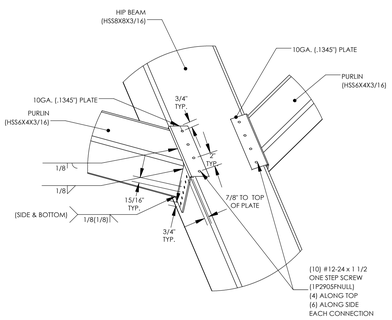
EAVE BEAM CONNECTION @ HIP BEAM 6



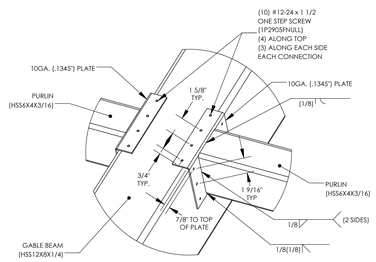
EAVE BEAM CONNECTION @ GABLE BEAM 7



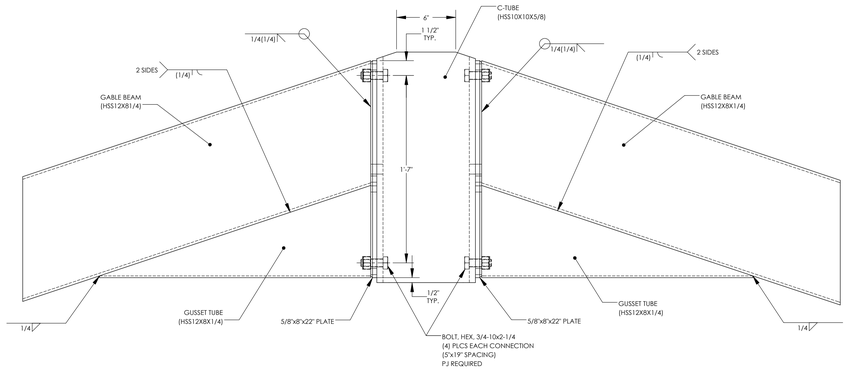
HIP BEAM CONNECTION @ COMPRESSION TUBE 4



PURLIN CONNECTION @ HIP BEAM 8



PURLIN CONNECTION @ GABLE BEAM 9



GABLE BEAM CONNECTION @ COMPRESSION TUBE 10

STATE APPROVALS-SITE

AECOM
4800 W. ALZA, SUITE 100
DUBLIN, CA 94568
925.829.7000

GHD
2235 MERCANTILE DR.
LIVERMORE, CA 94550
925.829.8160

poligon

PORTER SC
ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER
JESSICA E. MAYER
No. 55475
ELECTRICAL
STATE OF CALIFORNIA

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FRAME CONNECTION DETAILS

HIP ROOF - RAM 30

RAM4.2

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R221551X01

LICENSED ARCHITECT JEFFREY ALAN GRAD C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

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NOTES

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VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
FRAME CONNECTION DETAILS

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CONSTRUCTION DOCUMENTS

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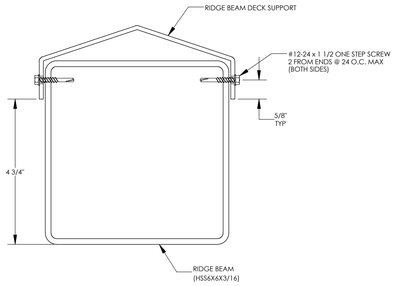
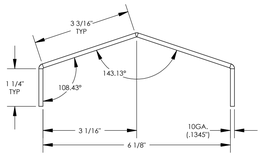
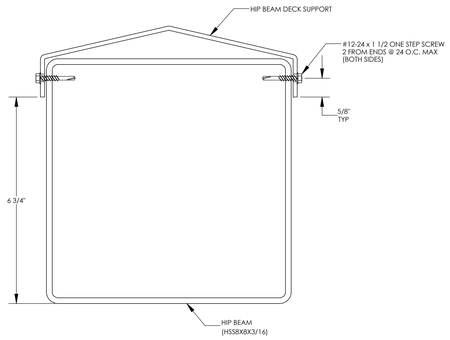
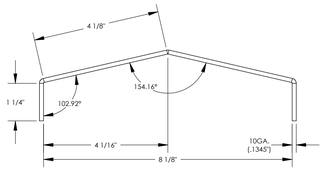




RAM 30 - RIDGE
Fy = 36 KSI
A = 1.231 IN^2
Ix = 1.149 IN^4
Iy = 6.272 IN^4
Sx = 0.771 IN^3
Sy = 1.962 IN^3

RIDGE BEAM DECK SUPPORT DETAIL 11





RAM 30 - HIP
Fy = 36 KSI
A = 1.484 IN^2
Ix = 1.341 IN^4
Iy = 12.353 IN^4
Sx = 0.886 IN^3
Sy = 2.943 IN^3

HIP BEAM DECK SUPPORT DETAIL 12

STATE APPROVALS-SITE

4000 PLAZA GOLDCREST DR. CIRCLE
SUITE B
CHANHASSEN, MN 55317
952.277.5015

poligon

PORTER

REGISTERED PROFESSIONAL ENGINEER
JESSICA E. NAPIER
No. S5498
Structural
STATE OF CALIFORNIA

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SECTION DETAILS

HIP ROOF - RAM 30

RAM4.3

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C-14648
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SACRAMENTO, CA, 95816
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LODI, CA 95240

PROJECT:
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RAM4.3

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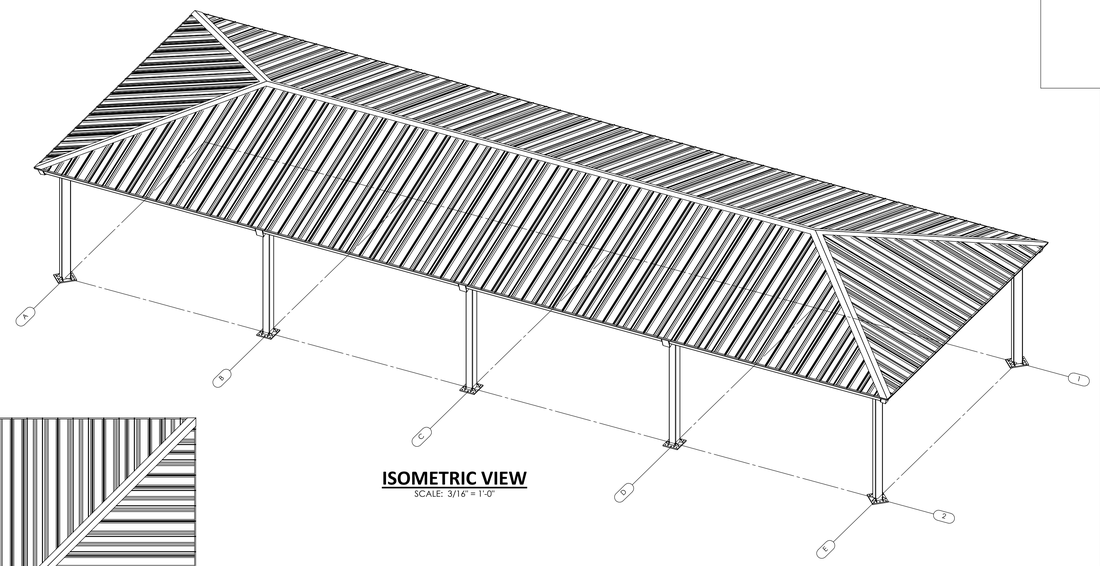
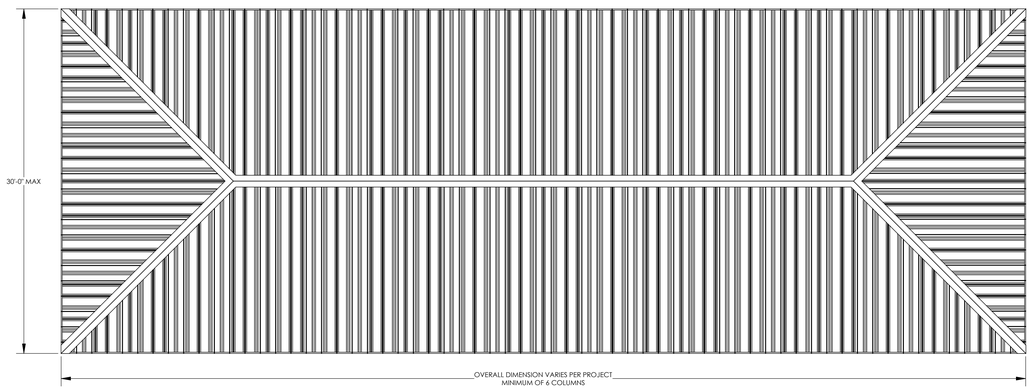
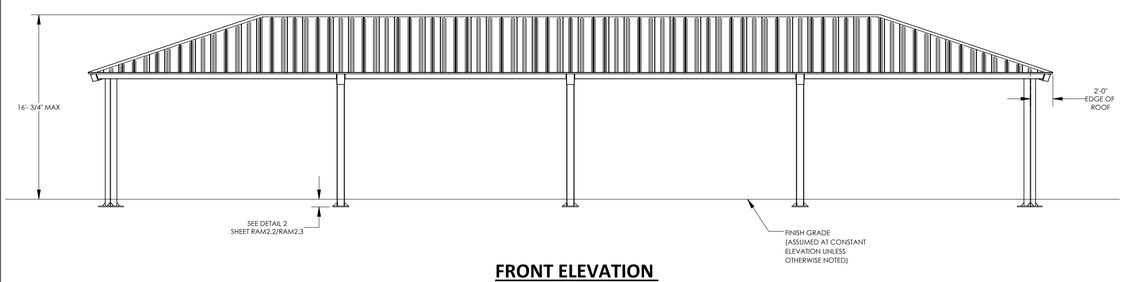


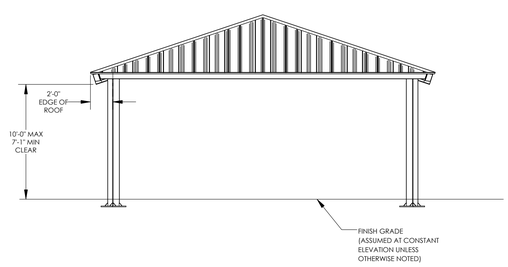
ISOMETRIC VIEW
SCALE: 3/16" = 1'-0"



PLAN VIEW
SCALE: 3/16" = 1'-0"



FRONT ELEVATION
SCALE: 3/16" = 1'-0"



SIDE ELEVATION
SCALE: 3/16" = 1'-0"

STATE APPROVALS-SITE

4800 E. 42nd AVENUE CIRCLE
SUITE B
CAMPBELL PARK, CA 95380
(360)877-5615
GHD

poligon

PORTER & CO.

REGISTERED PROFESSIONAL ENGINEER
JESSICA E. MAYER
No. S5476
STRUCTURAL
STATE OF CALIFORNIA

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ARCHITECTURAL VIEWS

HIP ROOF - RAM 30

RAM5.1

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ARCHITECTURAL VIEWS

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RAM5.1

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STANDING SEAM INSTALLATION NOTES:

THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE SYSTEMS. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO FIELD CONDITIONS.

IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH ALL ERECTION INSTRUCTIONS BEFORE STARTING WORK.

THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.

FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.

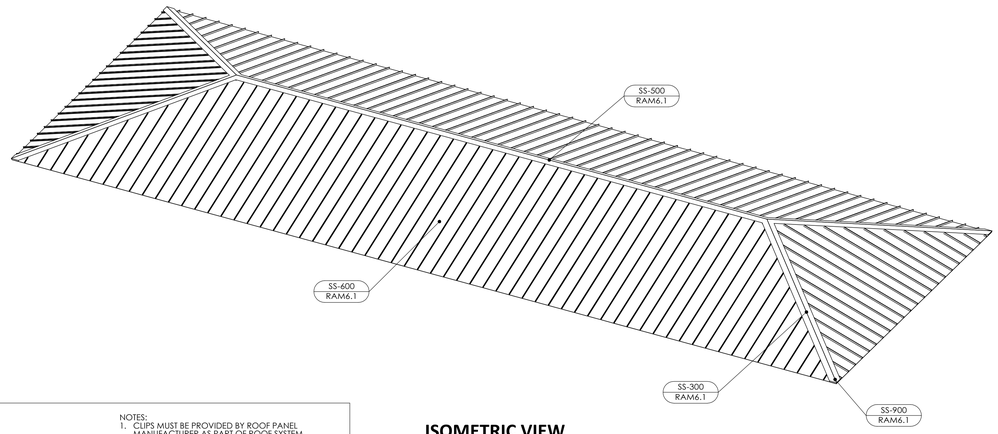
SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.

WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.

METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.

COVER ACCESS HOLES WITH GRACE ICE AND WATER SHIELD BEFORE ATTACHING ROOF DECKING

METAL ROOFING PRODUCT AND INSTALLATION SHALL MEET ALL REQUIREMENTS OF ICC-ES REPORT ESL-1082.



ISOMETRIC VIEW
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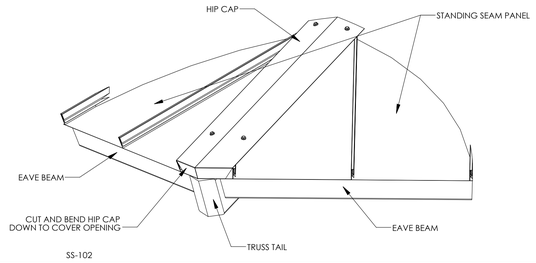
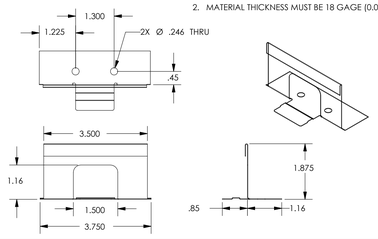
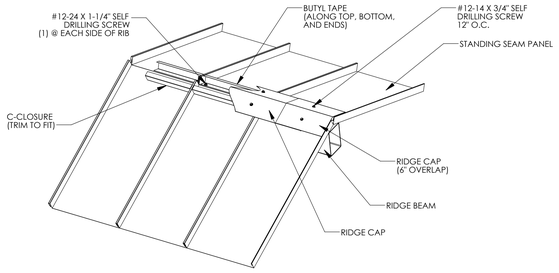


CORNER DETAIL — SS-900

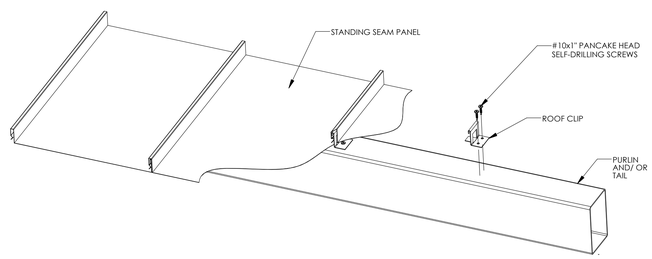
NOTES:
1. CLIPS MUST BE PROVIDED BY ROOF PANEL MANUFACTURER AS PART OF ROOF SYSTEM.
2. MATERIAL THICKNESS MUST BE 18 GAGE (0.048"-0.053")



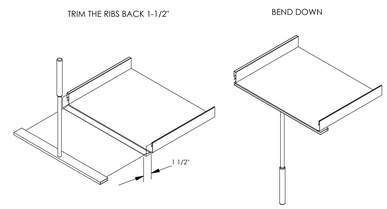
CLIP DETAIL — SS-CLP



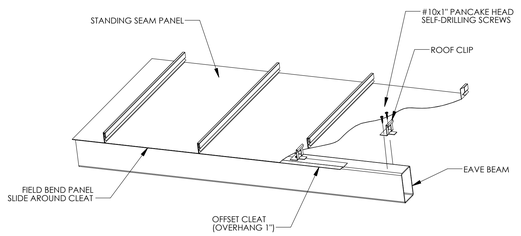
RIDGE DETAIL — SS-500



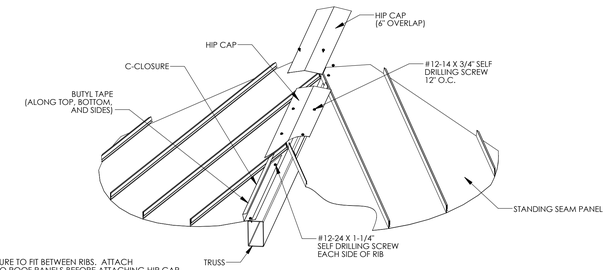
PURLIN DETAIL — SS-600



HEMMING DETAIL — SS-HEM

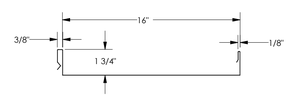


EAVE DETAIL — SS-200



NOTE:
TRIM C-CLOSURE TO FIT BETWEEN RIBS. ATTACH C-CLOSURE TO ROOF PANELS BEFORE ATTACHING HIP CAP.

TRUSS DETAIL — SS-300



GENERAL
GAGE = 22
FY = 50 KSI

TOP IN COMPRESSION
Ix = 0.1200 IN^4
Se = 0.0803 IN^3
Ma = 2.4056 IN-KIPS

BOTTOM IN COMPRESSION
Ix = 0.0570 IN^4
Se = 0.0729 IN^3
Ma = 1.7220 IN-KIPS

ROOF DECK SECTION PROPERTIES — SS-950

STATE APPROVALS-SITE

AECOM
4800 W. ALEX ROAD, LODI CHRISTIE
SUITE 11
CHAMPION 76 INC. CA 95588
530.677.5015

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REGISTERED PROFESSIONAL ENGINEER
JESSICA E. WAPPES
No. S5476
STRUCTURAL
STATE OF CALIFORNIA

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ROOF CONNECTION DETAILS

HIP ROOF - RAM

RAM6.1

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LODI, CA 95240

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SHEET NAME:
ROOF CONNECTION DETAILS

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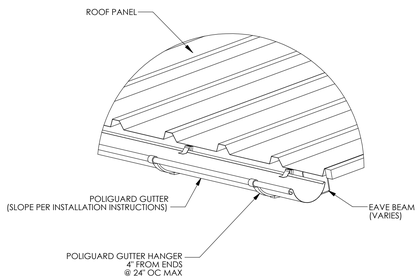
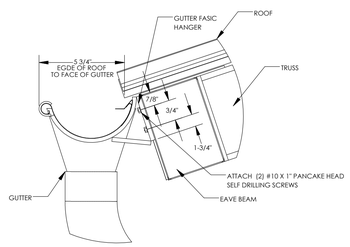
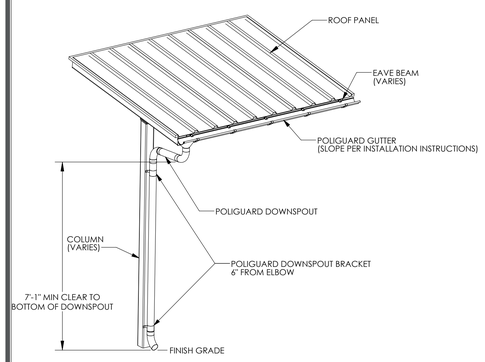


GUTTER DETAIL | GS-100



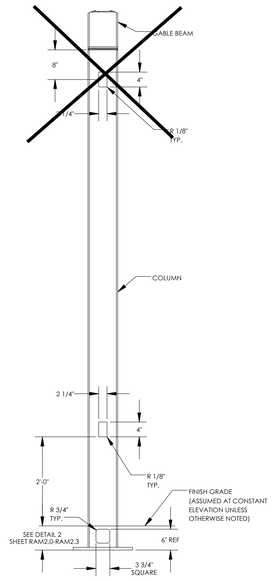
GUTTER DETAIL | GS-200



DOWNSPOUT DETAIL | GS-300

POLIGUARD GUTTER SYSTEM NOTES:

1. PREFABRICATED GUTTER SYSTEM IS ATTACHED TO THE STRUCTURE AFTER ROOF IS INSTALLED.
2. DETAILED INSTALLATION INSTRUCTIONS ARE SHIPPED WITH THE STRUCTURE.
3. ~~DOWNSPOUTS REQUIRED AT EACH COLUMN.~~



ELECTRICAL CUTOUT IN COLUMNS | EC-100

ELECTRICAL CUTOUT NOTES:

1. MAXIMUM ONE CUTOUT PERMITTED IN EACH MEMBER.
2. CUTOUTS CAN BE PLACED ON ANY SIDE OF A MEMBER.
3. CUTOUTS CAN BE PLACED ALONG MEMBERS AS INDICATED IN THE DETAILS.
4. ARCHITECTS REQUESTING CUTOUTS MUST MARKUP APPROVED PC DRAWINGS TO LOCATE CUTOUTS FOR APPROVAL AND FABRICATION.

STATE APPROVALS-SITE

GHD
4000 MOCAN DR, DORADO CIRCLE
SUITE B
CAMERON PARK, CA 95682
530.677.5515

poligon

PORTER & ASSOCIATES

REGISTERED PROFESSIONAL ENGINEER
JESSICA E. MATHIS
No. 55492
ELECTRICAL
STATE OF CALIFORNIA

STATE APPROVALS-PC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121213 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 7/18/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MISC DESIGN OPTIONS

HIP ROOF - RAM

RAM7.0

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LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
VICTOR ELEMENTARY SCHOOL
17670 BRUELLA ROAD
LODI, CA 95240

PROJECT:
VICTOR ELEMENTARY SCHOOL - PORTABLE BLDGS AND SHELTER

SHEET NAME:
MISC DESIGN OPTIONS

BID SET

CONSTRUCTION DOCUMENTS

A NO.: 02-121807

DATE: **10/26/23** | CLIENT PROJ NO: **R221551X01**

SHEET:

RAM7.0

Autodesk Docs://R221551X01 Victor ES Portable Bldg Shelter/R221551X01-A-VICTOR-ES-PORTABLE-BLDG-SHELTER.rvt
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PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ON THIS SHEETS ORIGINAL PAGE SIZE

ELECTRICAL CUTOUT AND ACCESS INSTRUCTIONS

- IF 'YES' IS NOT SELECTED IN STEP 2 ON ORDER FORM, THEN THIS SHEET NEED NOT BE INCLUDED IN SITE-SPECIFIC DRAWINGS
- ONLY COLUMNS ARE PERMITTED TO HAVE ELECTRICAL ACCESS
- THE COLUMN CUTOUTS ARE STATIC AND SHOWN IN THE 'MISC DESIGN OPTIONS SHEET'
- IDENTIFY THE COLUMNS WITH ELECTRICAL CUTOUTS BELOW (REFERENCE GRID LINES IN ISOMETRIC FRAME VIEW TO THE RIGHT)
- STRUCTURES MAY BE LONGER OR SHORTER THAN THE ISOMETRIC FRAME VIEW SHOWN
- IF SITE-SPECIFIC STRUCTURE HAS A DIFFERENT NUMBER OF COLUMNS THAN ISOMETRIC SHOWN, REFERENCE COLUMN A1 IN THE ISOMETRIC VIEW AND CONTINUE PATTERN TO FIT SITE-SPECIFIC LAYOUT
- IF NO COLUMNS ARE IDENTIFIED, POLIGON WILL ASSUME CUTOUTS ONLY IN COLUMN A1
- CONTACT POLIGON ENGINEERING FOR SPECIAL PROJECT SPECIFIC REQUIREMENTS

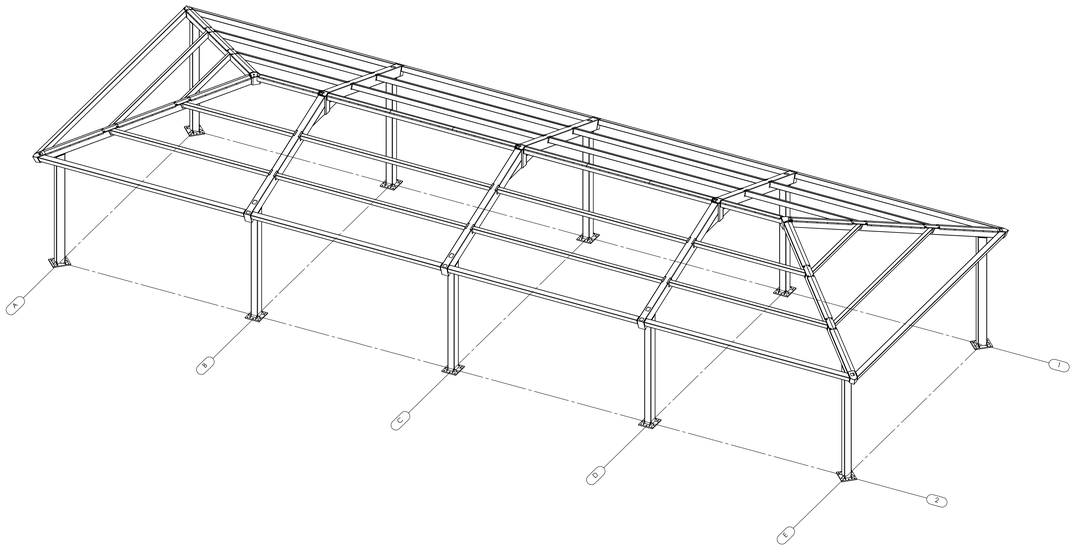
ELECTRICAL CUTOUT IDENTIFICATION IN COLUMNS

SPECIFIC MEMBERS A1, E2

~~**EXAMPLE:**~~

~~**ELECTRICAL CUTOUT IDENTIFICATION IN COLUMNS**~~

~~SPECIFIC MEMBERS A1 , B1, F1~~



STATE APPROVALS-SITE

4365 PLAZA GOLDORADO CIRCLE
SUITE 1
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STATE APPROVALS-PC

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ELECTRICAL CUTOUTS

HIP ROOF - RAM

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

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