(4) 24x40 PORTABLE CLASSROOMS
WILLIAM PENN ELEMENTARY SCHOOL

TEMPORARY 36 MONTH APPROVAL
2201 SAN EMIDIO STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/20/2024

PTN : 63321-405 FILE: 15-6

PROJECT DATA

THIS PROJECT SHALL NOT BE CERTIFIED UNTIL A#03-122918 IS CERTIFIED FOR THE REQUIRED POT ELEMENTS

LEGEND

SYMBOLS

A 1	GRID LINES
G	GATE SYMBOL
124 A	DOOR SYMBOL DOOR NUMBER
1 T	WINDOW SYMBOL WINDOW NUMBER T = TEMPERED WH/OCCURS
△1	REVISION NUMBER
⊕	WORK POINT CONTROL POINT/DATUM POINT ELEVATION
◒ ——— ◒	MATCH LINE (SHADED PORTION IS THE SIDE SHOWN)
TRUE NORTH PLAN NORTH	NORTH ARROW
A A8.0	BUILDING SECTION SHEET NUMBER
B A8.0	WALL SECTION SHEET NUMBER
12 A10.1	DETAIL NUMBER SHEET NUMBER
101 OFFICE A9.0	ROOM NUMBER/NAME SHEET REFERENCE OF ROOM
100.00 (E) 99.50	REVISED FINISH GRADE EXISTING GRADE CALLED (E)
901	KEYNOTE
D	SIGNS SEE SCHEDULE A5.0
A	KITCHEN EQUIPMENT
□	ADA CLEARANCE SEE SCHEDULE

ABBREVIATIONS

@	At
#	Pounds
AB	Anchor Bolt
AC	Asphalt Concrete
ACC	Accessibility
AFF	Above Finish Floor
AP	Access Panel
A/C	Air-conditioning
ABV	Above
ACOUS	Acoustic(al)
ACPL	Acoustical Plaster
ADD	Addendum
ADD'L	Additional
ADJ	Adjustable/Adjacent
AGG	Aggregate
ALT	Alternate
ALUM	Aluminum
ANC	Anchor(age)
APPROX	Approximate(ly)
ARCH/ARCH'L	Architect
ASB	Asbestos
BBD	Bulletin Board
BC	Begin Curve
BMK	Bench Mark
BOB	Bottom of Beam
BUR	Built-Up Roofing
BD	Board
BEL	Below
BIT	Bituminous
BLDG	Building
BLK	Blocking
BRK	Break, Brick
BRKR	Breaker
BM	Beam
BOT	Bottom
BRG	Bearing
BRNZ	Bronze
BVL	Bevel(ed)
C&G	Curb and Gutter
CB	Catch Basin
CF	Cubic Foot (Feet)
CFL	Counterflashing
CFRD	Coffered
CG	Corner Guard
CI	Cast Iron
CIP	Cast Iron Pipe
CISC	Cast-In-Place Concrete
CISP	Cast Iron Soil Pipe
CJ	Ceiling Joist
CJT	Control Joint
CK	Caulk(ing)
CL	Chain Link
℄	Center Line
CMT	Ceramic Mosaic Tile
CMU	Concrete Masonry Unit
CO	Clean-Out
COTG	Clean-Out To Grade
COTW	Clean-Out Thru Wall
CR	Curb Return
CAB	Cabinet
CEM	Cement
CER	Ceramic
CHAM	Chamfer
CHBD	Chalkboard
CHG	Change
CLG	Ceiling
CLR	Clear(ance)
CLS	Closure
CNTR	Counter
COL	Column
COMB	Combination
COMPO	Composition
CONC	Concrete
CONST	Construction
CONT	Continuous
CORR	Corrugated
CSK	Countersink
CSMT	Casement
CTR	Center
CW	Cold Water
DF	Drinking Fountain
DH	Double Hung
DA	Double Acting
DEP	Depression
DET	Detail
DIA	Diameter
DIAG	Diagonal
DIM	Dimension
DIV	Division
DPPR	Depress(ed)
DR	Door
DS	Downspout
DSPR	Dispenser
DWG	Drawing
DWR	Drawer
(D) CW	(Domestic) Cold Water
(D) HW	(Domestic) Hot Water
(E)	Existing
E	East
EDF	Electric Drinking Fountain
EF	Each Face
EJ	Expansion Joint
EPB	Electric Panel Board
EW	Each Way
EA	Each
ELECT'L	Electric(al)
ELEV'R	Elevator
ELEV	Elevation
EMER	Emergency
ENAM	Enamel
ENCL	Enclosure
EQ	Equal
EQUIP	Equipment
EXH	Exhaust
EXP	Expansion/Exposed
EXTR	Exterior
FBO	Furnished By Others
FBLKG	Fire-Blocking
FD	Floor Drain
FEC	Fire Extinguisher Cabinet
FG	Fixed Glass/Finish Grade
FGRD	Finish Grade
FJ	Floor Joist
FJT	Flush Joint
FOC	Face Of Concrete/Column
FOF	Face Of Finish
FOM	Face Of Masonry
FOS	Face Of Stud
FOW	Face Of Wall
FAB	Fabrication(tion)
FAC	Factory
FAS	Fasten(er)
FBD	Fiberboard
FBGL	Fiberglass
FH	Fire Hydrant
FHC	Fire Hose Cabinet
FHMS	Flathead Machine Screw
FHWS	Flathead Wood Screw
FHSS	Flathead Stainless steel
FIN	Finish(ed,es)
FLEX	Flex(ible)
FLR	Floor
FLUOR	Fluoresent
FOUND	Foundation
FRMG	Framing
FRT	Fire-Retardant
FS	Fixed Shelf
FTG	Footing
FURR	Furring(ed)
FUT	Future
FV	Field Verify
GB	Grab Bar
GI	Galvanized Iron
GA	Gauge
GALV	Galvanize
GL	Glass
GLZG	Glazing
GRAV	Gravel
GRD	Grade
GSKT	Gasket
GYPBD	Gypsum Board
GYPLA	Gypsum Lath
HB	Hose Bibb
HC	Hollow Core
HCM	Hazardous Containing Material
HJT	Head Joint
HM	Hollow Metal
HVAC	Heating, Ventilating & Air-Conditioning
HBD	Hardboard
HDR	Header
HDWD	Hardwood
HDWR	Hardware
HEX	Hexagonal
HORIZ	Horizontal
HT	Height
HTG	Heating
HW	Hot Water
ID	Inside Diameter
INCL	Include(ing)
INSTR	Instruction(tor)
INSUL	Insulate(tion)
INTM	Intermediate
INTR	Interior
INV	Invert
JST	Joist
JT	Joint
KVC	Keen's Veneer Cement
KD	Knockdown
KPL	Kick-Plate
LBS	Pounds
LBT	Lag Bolt
LF	Linear Foot
LH	Left Hand
LPT	Low Point
LAD'R	Ladder
LAM	Laminate(d)
LAV	Lavatory
LBL	Label
LVR	Louver
LOC	Location
LT	Light
MB	Machine Bolt, Marker Board
MC	Medicine Cabinet
MT	Metal Threshold
MAS	Masonry
MAX	Maximum
MBRN	Membrane
MECH/MECH'L	Mechanic(al)
MED	Medium
MFG	Manufacturing
MFR	Manufacturer
MIN	Minimum
MIR	Mirror
MISC	Miscellaneous
MLDG	Molding (Moulding)
MOD	Modular
MTD	Mounted
MTL('L)	Material
MULL	Mullion
MWK	Millwork
N	North
NIC	Not In Contract
NTS	Not to Scale
NAT	Natural
NOM	Nominal
OC	On Center
OCBW	On Center Both Ways
OD	Outside Diameter
O/	Over
OA	Overall
OBS	Obscure
OFLD	Overflow Drain
OHMS	Ovalhead Machine Screw
OHWS	Ovalhead Wood Screw
OHD	Overhead
OPHD	Opposite Hand
OPAQ	Opaque
OPNG	Opening
OPP	Opposite
PA	Planting Area
PBD	Particle Board
℘	Property Line
PLAM	Plastic Laminate(d)
POC	Point of Connection
POI	Point of Intersection
PT DISP	Paper Towel Dispenser
PT RECP	Paper Towel Receptical
PVC	Poly-Vinyl Chloride
PART	Partition
PC CONC	Precast Concrete
PERF	Perforated
PERIM	Perimeter
PL	Plate
PLAS	Plaster
(P)CPL	(Portland) Cement Plaster
PNL	Panel
PNT(D)	Paint(ed)
PRE-FAB	Pre-Fabricated
PLMG	Plumbing
PLYWD	Plywood
R	Riser
RD	Roof Drain
RH	Right Hand
RJ	Roof Joist
RL	Ridge Line
RO	Rough Opening
RAD	Radius
ROW	Right Of Way
REF	Reference
REINF	Reinforce(ment)
REM	Removal
REQ	Required
RES	Resillent
RET	Return
REV	Revision
RFG	Roofing
RFL	Reflect(ed,ive,or)
RM	Room
RTSB	Rubber Top Set Base
RWD	Redwood
RWL	Rainwater Leader
S&P	Shelf And Pole
S	South
SC	Solid Core
SD	Storm Drain
SKDISP	Sanitary Napkin Dispenser
SCH	Schedule(d)
SEC	Section
SHLF	Shelf
SHLVG	Shelving
SHT	Sheet
SHTG	Sheathing
SIM	Similar
SKLT	Skylight
SMHC	Sewer Manhole Cover
SP	Space(s)
SPEC	Specification(s)
SQ	Square
SS	Stainless Steel
STD	Standard
STL	Steel
STOR	Storage
STRUC	Structure
STRUCT'L	Structural
SYS	System
T&B	Top & Bottom
T&G	Tongue & Groove
T	Tread
TB	Towel Bar
THRU	Through
TJ	Tool Joint
TS	Tube Steel
TOB	Top Of Beam
TOC	Top Of Curb (Conc)
TOM	Top Of Masonry
TOP	Top Of Plate/Top of Parapet
TOS	Top Of Sheathing
TOW	Top Of Wall
TP DISP	Toilet Paper Dispenser
T PART	Toilet Partition
TSC DISP	Toilet Seat Cover Dispenser
TEL	Telephone
TEMP	Tempered
THD	Thread(ed,s)
THK	Thick(ness)
TKBD	Tackboard
TSB	Topset Base
TYP	Typical
TW	Tread Width
UNO	Unless Noted Otherwise
VIF	Verify in Field
VG	Vertical Grain
VO	Vent Over (Offset)
VR	Vent Riser
VTR	Vent Thru Roof
VAR	Varnish
VCT	Vinyl Composition Tile
VCTWB	Vinyl Composition Tackable Wallboard
VEN	Veneer
VERT	Vertical
VPB	Vapor Barrier
W	West
WGL	Wire Glass
WHCAB	Wall Hung Cabinet
WI	Wrought Iron
WM	Wire Mess
WTW	Wall To Wall
WWM	Welded Wire Mesh
W/	With
W/O	Without
WIND	Window
WP	Waterproof(ing)
WSCT	Wainscot
WST	Waste
WT	Weight
WD	Wood
X-FMR	Transformer

GENERAL NOTES

NOTHING IN THE DRAWINGS AND/OR THE SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT AN INSTALLATION THAT COULD BE IN VIOLATION OF THE APPLICABLE CODES, ORDINANCES, REGULATIONS, RESTRICTIONS, ETC. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE DRAWINGS SHALL CAUSE THE CONTRACTOR TO NOTIFY THE ARCHITECT PRIOR TO MAKING ANY CHANGES IN THE WORK.

THE DRAWINGS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED HEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/OWNER AND NO PART THEREOF SHALL BE COPIED OR DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS CONSTITUTES CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

MISPLACEMENT, ADDITION, OR OMISSION OF ANY WORD, LETTER, FIGURE, PUNCTUATION MARK, ETC., SHALL IN NO WAY CHANGE OR ALTER THE TRUE INTENT, SPIRIT, OR MEANING OF THE DRAWINGS. THE CONTRACTOR SHALL STUDY AND COMPARE ALL DRAWINGS AND SHALL REPORT ANY ERRORS, OMISSIONS, OR INCONSISTENCIES TO THE ARCHITECT BEFORE COMMENCING WORK IN THAT AREA.

ALL WORK SHALL BE IN CONFORMANCE WITH THE CURRENTLY ADOPTED EDITION OF THE:

PART 1	2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), TITLE 24 C.C.R.
PART 2	2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE, VOLUME 1 & 2 AND 2022 CALIFORNIA AMENDMENTS)
PART 3	2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R. (2020 EDITION OF NFPA 70 AND 2022 CALIFORNIA AMENDMENTS)
PART 4	2022 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R. (2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
PART 5	2022 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R. (2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
PART 6	2022 CALIFORNIA ENERGY CODE (CEC), TITLE 24 C.C.R.
PART 9	2022 CALIFORNIA FIRE CODE (CFC), TITLE 24 C.C.R (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
PART 10	2022 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
PART 11	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), TITLE 24 C.C.R.
PART 12	2022 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R.

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS
2016 A.S.M.E. A17.1/CSA B44-16 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH. 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES C.C.R. TITLE 8 AND USES THE 2004 A.S.M.E. A17.1 BY ADOPTION.

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2022 EDITION
NFPA 14	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CALIFORNIA AMENDED)	2019 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 20	STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2019 EDITION
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2023 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CALIFORNIA AMENDED)	2019 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE AND SIGNALING CODE (CALIFORNIA AMENDED)	2022 EDITION
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA AMENDED)	2018 EDITION
UL300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION W/REV'S THROUGH JULY, 20, 2005
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 (R2012)
ICC 300	STANDARDS FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE (CFC) CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.
*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023.

IF CONFLICTS BETWEEN VARIOUS ELEMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL) OF THE WORK OF THE DRAWINGS ARE DISCOVERED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

THESE PROPOSED PLANS WERE BASED ON PLANS BY OTHERS, FURNISHED BY THE OWNER, INDICATING WORK OF PREVIOUS CONTRACTS. THE EXISTING PLANS WILL BE MADE AVAILABLE FOR THE CONTRACTOR'S REVIEW UPON REQUEST. THE OWNER, THE ARCHITECT AND THE ENGINEERS SHALL ASSUME NO RESPONSIBILITY FOR THE EXISTING CONDITIONS AND MEASUREMENTS INDICATED ON THESE PROPOSED PLANS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MEASUREMENTS AND CONDITIONS NECESSARY TO PROVIDE COMPLETE WORK AS INDICATED BY THE INTENT OF THESE PLANS PRIOR TO PROCEEDING WITH WORK OF THIS CONTRACT.

EXISTING DIMENSIONS INDICATED ON THESE PROPOSED DRAWINGS HAVE BEEN PROVIDED FROM INFORMATION OBTAINED FROM THE DISTRICT. THE CONTRACTOR SHALL USE WHAT MEANS NECESSARY TO VERIFY THE DIMENSIONS IN THE AREAS OF DESIGNATED WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING WORK IN THE AREA OF QUESTION.

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA, A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT.

A "CLASS 2" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

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

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATIONS, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITION SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD TYPE A) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE REPAIR WORK.

CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND ENGINEER WITH THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT.

ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

THE SCOPE OF WORK - CLEARLY INDICATE THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.

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 DIFFERED SUBMITTAL ITEMS FOR THIS PROJECT.

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

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

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

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)

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

THE FOLLOWING DOCUMENTS SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF THE UNIT(S):
A) IN-PLANT VERIFIED REPORT
B) LABORATORY VERIFIED REPORT
C) WELDING VERIFIED REPORT
THE SITE INSPECTOR SHALL VERIFY THE ABOVE DOCUMENTS AND SERIAL NUMBERS ARE APPLICABLE TO EACH UNIT PRIOR TO INSTALLATION OF THE UNIT(S).
NOTIFY ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT FIELD ENGINEER IF ANY DISCREPANCIES OCCUR.

DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION:
IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CONSTRUCTION CHANGE DOCUMENT, CCD TYPE A, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEOFRE PROCEEDING WITH THE REPAIR WORK.

MODULAR BLDG. RAMP BLOCK NOTE:
THE DESIGN PROFESSIONAL HAS EXEMPTED THIS RAMP FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED OR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30 INCHES. IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTIONS WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR MODULARCATION OF THE RAMP.

SCOPE OF WORK

BASE BID:

THE SCOPE OF WORK INTENDED AS BASE BID SHALL INCLUDE ALL LABOR, MATERIALS & EQUIPMENT AS REQUIRED & NECESSARY FOR ALL SITE WORK IMPROVEMENTS TO INCLUDE BUT NOT LIMITED TO, DEMOLITION, CONCRETE FLAT WORK, UNDERGROUND UTILITIES INCLUDING, ELECTRICAL AND FIRE ALARM AND ALL WORK AS REQUIRED TO SITE (4) RELOCATABLE BUILDINGS TO ENSURE A COMPLETE & FUNCTIONAL PROJECT READY FOR OCCUPANCY.

SITE DATA

THE STRUCTURAL DESIGN CRITERIA (I.E., SEISMIC, WIND, ETC.) INDICATED IN ANY 2016 PC WILL BE REQUIRED TO COMPLY WITH THE 2016 CBC DESIGN CRITERIA AND DETAILING REQUIREMENTS SINCE THAT IS THE CODE EDITION FOR WHICH THE PC WAS APPROVED.

SEISMIC DESIGN LOADS:

SEISMIC IMPORTANCE FACTOR I_E……1.25

RISK CATEGORY……III

S_s……0.932g

S_1……0.338g

SEISMIC SITE CLASS……D (DEFAULT)

S_{DS}……0.746g

S_{D1}……NULL

SEISMIC DESIGN CATEGORY……D

ULTIMATE DESIGN WIND SPEED……94

WIND EXPOSURE……C

TOPOGRAPHIC FACTOR……1.0

CLIMATE ZONE……13

FLOOD HAZARD……DESIGNATION: ZONE X, (FIRM) PANEL 2282, SEPTEMBER 26, 2008

DESIGN TEAM

OWNER

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, CA. 93305
(661) 631-4600
FAX (661) 326-1485

ARCHITECT

SCARCHITECT INC.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA. 93309
(661) 397-4377
FAX (661) 397-4378

CONSULTING ENGINEERS

CIVIL

SWANSON ENGINEERING
2000 OAK ST., SUITE 150
BAKERSFIELD, CA. 93301
(661) 831-4919
FAX (661) 831-4929

ELECTRICAL

DPG ENGINEERING, INC.
6702 N. CEDAR AVE., SUITE 205
FRESNO, CA. 93710
(559) 276-5144
FAX (559) 900-4929

SHEET INDEX

(30) SHEETS TOTAL

TITLE

T0 TITLE SHEET, SHEET INDEX & VICINITY MAP

CIVIL

C1 TITLE SHEET
C2 GRADING PLAN

ARCHITECTURAL

A1 OVERALL SITE PLAN
A2 PARTIAL DEMO SITE PLAN & PARTIAL SITE PLAN
A3 DETAILS

ELECTRICAL

E1.00 ELECT. SITE PLAN, SYMBOL LEGEND, SINGLE LINE, DETAILS AND NOTES
E2.00 FIRE ALARM SITE PLAN, SYMBOL LEGEND, DETAILS NOTES AND SCHEDULES
E2.10 FIRE ALARM SINGLE LINE DIAGRAM AND SCHEDULES

MODULAR STRUCTURES INTERNATIONAL, INC.

(R6 - SN. 20168-69, R7 - SN. 20196-97, R8 - SN. 20200-01 & R9 - SN. 20236-37)-MANUFACTURED RELOCATABLE MODULAR BUILDINGS STOCKPILE FOR (59) 24'X40' PORTABLE DSA CLASSROOMS
A# 04-105453 / PC # 4-104778

CS COVER SHEET
G-1 GENERAL NOTES & SPECIFICATIONS
G-2 BUILDING SPECIFICATIONS, CONSTRUCTION NOTES & SCHEDULES
G-4 STANDARD ARCHITECTURAL DETAILS
A-1.1-24 24'X40' FLOOR PLAN, EXTERIOR ELEVATIONS & ROOF PLAN (DUAL PITCH ROOF)
A-2.1-24 24'X40' INTERIOR ELEVATIONS
A-3.1-24 24'X40' REFLECTED CEILING PLAN
E-1.1-24 24'X40' ELECTRICAL LIGHTING PLAN ELECTRICAL POWER PLAN
M-1.1-24 24'X40' MECHANICAL PLAN
S-5 RIGID FRAME SECTION & DETAILS DUAL SLOPE W/ MODLINE TRUSS
S-10 FLOOR FRAMING PLAN AND DETAILS FOR PLYWOOD FLOOR
S-21 EXTERIOR WALL FRAMING ELEVATIONS FOR STEEL STUDS
S-30 WOOD STUD WALL FRAMING DETAILS
S-41 ROOF FRAMING PLAN W/ 22 GA. METAL DECK
S-51 ROOF FRAMING DETAILS W/ METAL DECK
S-60 DUAL SLOPE TRUSS & DETAILS
R-1 4'-0" WIDE RAMP PLAN & DETAILS

ELITE MODULAR LEASING & SALES, INC.

(R6, R7, R8 & R9) - ELITE MODULAR WOOD & CONCRETE FOUNDATIONS PC
A# 04-120373

CP COVER SHEET
WFS-01 STRUCTURAL SPECIFICATIONS WOOD FOUNDATIONS
WF-04 WOOD FOUNDATION PLAN 24X40 (50 & 50+15 PSF)
WFD-01 FOUNDATION DETAILS WOOD

STATEMENT OF GENERAL CONFORMANCE

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

(APPLICATION NO. 03_123199 FILE NO. 15-6)
☑ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐ 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 4-344FL OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 [B])

I FIND THAT: ☑ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐ THIS DRAWING OR PAGE

☑ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND
☑ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE
4/11/23
DATE

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE | ARCHITECT OR ENGINEER DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK

STEPHEN J. CORBIN
PRINT NAME

C-16788
LICENSE NUMBER

11/30/25
EXPIRATION DATE

No. C-16788 REN 11/30/25

VICINITY MAP

PROJECT LOCATION:
WILLIAM PENN ELEMENTARY SCHOOL
2201 SAN EMIDIO STREET
BAKERSFIELD, CA. 93304

(4) 24x40 PORTABLE CLASSROOMS
WILLIAM PENN ELEMENTARY SCHOOL
2201 SAN EMIDIO STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

No. C-16788 REN 11/30/25

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

TITLE SHEET,
SHEET INDEX &
VICINITY MAP

MARK	DATE	REVISIONS
△1		
△2		
△3		

JOB NO. 1318.1
DRAWN : ED, FS
CHECKED : BCW
DATE : 1/11/24

T0
1 OF 30 SHEETS

WILLIAM PENN ELEMENTARY SCHOOL
2201 SAN EMIDIO STREET
BAKERSFIELD, CA

CONSTRUCTION NOTES

1. ALL GRADING SHALL CONFORM TO THE CITY OF BAKERSFIELD ORDINANCES AND STANDARDS PERTAINING THERETO (CALIFORNIA BUILDING CODE, 2022) AND SHALL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH CITY OF BAKERSFIELD ORDINANCES.

2. THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODE WITHIN HIS PURVIEW.

3. THE CONTRACTOR SHALL CONTACT ALL COMPANIES WITH UNDERGROUND FACILITIES PRIOR TO BEGINNING CONSTRUCTION AND VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND FACILITIES, INCLUDING TELEPHONE, ELECTRIC, WATER, SEWER, OIL AND GAS LINES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR BURIED LINES NOT INDICATED ON THE PLAN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES. (USA – 811)

4. THE WORK EMBRACED HEREIN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DATED JULY, 2018 (UNLESS OTHERWISE SPECIFIED). INSOFAR AS THE SAME MAY APPLY IN ACCORDANCE WITH THE NOTES HEREIN. IN CASE OF CONFLICT WITH THE STANDARD SPECIFICATIONS AND ANY NOTES HEREON, THE NOTES HEREON SHALL TAKE PRECEDENCE OVER AND BE USED IN LIEU OF SUCH CONFLICTING PORTIONS. SAID SPECIFICATIONS SHALL APPLY BUT NOT BE LIMITED TO THE FOLLOWING:

A) ALL CONCRETE SHALL BE CLASS "J" USING TYPE II/V CEMENT AS IN ACCORDANCE WITH SECTION 90 AND SHALL HAVE AT LEAST 2500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, PER CALTRANS STANDARD SPECIFICATIONS (2006) UNLESS OTHERWISE SPECIFIED.

B) ASPHALTIC CONCRETE SHALL BE TYPE "B", 1/2" MAXIMUM, MEDIUM GRADED, AND INTIMATELY MIXED WITH 5-6.5% ASPHALT PER CALTRANS STANDARD SPECIFICATIONS (2006). NO R.A.P. (RECLAIMED ASPHALT PAVEMENT) SHALL BE USED. ASPHALT SHALL BE PERFORMANCE GRADE PG64-10.

5. SWANSON ENGINEERING SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED, IN WRITING, BY SWANSON ENGINEERING.

6. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL POTHOLE ALL UTILITIES THAT WILL BE AFFECTED BY THIS CONSTRUCTION TO DETERMINE IF ANY UTILITY CONFLICTS EXIST. ANY UTILITY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT DESIGN CHANGES CAN BE MADE PRIOR TO THE START OF CONSTRUCTION.

7. IMPORTED FILL MATERIAL SHOULD CONSIST OF ESSENTIALLY GRANULAR, SILTY SANDS WITH LOW EXPANSION POTENTIAL AND FREE OF GRASSES, WEEDS, ROOTS LARGER THAN TWO INCHES IN DIAMETER, DEBRIS, AND SOLUBLE SULFATES IN EXCESS OF 200 PARTS PER MILLION. IMPORTED FILL SHOULD CONTAIN SUFFICIENT SILT AND CLAY BINDER TO RENDER THEM STABLE IN FOOTING TRENCHES AND CAPABLE OF MAINTAINING SPECIFIED ELEVATION TOLERANCES DURING PAVING OPERATIONS. ANY EARTHEN MATERIALS PROPOSED TO BE BROUGHT ONTO SCHOOL SITES ARE SUBJECT TO TESTING TO VERIFY THEY ARE IN COMPLIANCE WITH DTSC STANDARDS. OWNER SHALL DETERMINE IF TESTING OF MATERIALS IS REQUIRED PRIOR TO ANY MATERIAL BEING BROUGHT ONTO THE SITE. TESTING OF MATERIALS MAY TAKE UP TO TWO WEEKS TO VERIFY COMPLIANCE WITH DTSC STANDARDS.

IMPORTED SOILS SHOULD ALSO MEET THE FOLLOWING CRITERIA:

A) MAXIMUM % PASSING #200 SIEVE 50
B) MAXIMUM LIQUID LIMIT 40
C) MAXIMUM PLASTICITY INDEX 14
D) MINIMUM R-VALUE 50
E) MAXIMUM EXPANSION INDEX 20

8. CLEARING AND GRUBBING – REMOVE ALL DEBRIS, SUCH AS METAL, TRASH, BROKEN CONCRETE, VEGETATION, OTHER BIODEGRADABLE SUBSTANCES, AND UNSUITABLE SOIL FROM AREAS TO BE GRADED. UNSUITABLE SOIL IS SOIL THAT, IN THE OPINION OF THE BUILDING OFFICIAL, SOIL ENGINEER, OR CIVIL ENGINEER, IS NOT COMPETENT TO SUPPORT OTHER SOIL OR STRUCTURES, OR TO SATISFACTORILY PERFORM ANY OTHER FUNCTIONS FOR WHICH THE SOIL IS INTENDED.

9. AREAS TO RECEIVE FILL SHALL BE SCARIFIED SIX INCHES, OR AS RECOMMENDED IN THE SOIL REPORT, WHICHEVER IS GREATER, UNTIL THE SURFACE IS FREE FROM RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH WOULD TEND TO PREVENT UNIFORM COMPACTION BY THE EQUIPMENT TO BE USED. MOISTEN AND COMPACT TO AT LEAST 90% OF THE MAXIMUM DENSITY PER ASTM D1557 UNLESS OTHERWISE SPECIFIED.

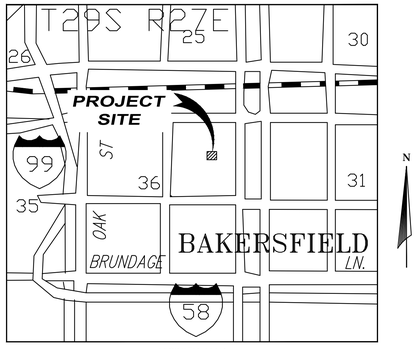
10. ENGINEERED FILL MATERIALS SHOULD BE PLACED IN THIN LAYERS (LESS THAN EIGHT INCHES UNCOMPACTED THICKNESS), BROUGHT TO NEAR THE OPTIMUM MOISTURE CONTENT OR TO A MOISTURE CONTENT COMMENSURATE WITH EFFECTIVE COMPACTION AND SOIL STABILITY, AND COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINABLE BY ASTM TEST METHOD D1557.

11. THE ENGINEER MAKES NO WARRANTY OF THE ANTICIPATED SHRINKAGE FACTOR. THE GRADING PLAN DOES NOT NECESSARILY INDICATE A BALANCED SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING MATERIALS FROM AN OFF-SITE LOCATION OR EXPORTING EXCESS MATERIAL TO AN OFF-SITE LOCATION, AS NEEDED.

12. CONTRACTOR TO VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS IN THE FIELD BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES THAT WILL AFFECT TIE-INS TO EXISTING IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.

13. PAVEMENT AND FLATWORK AREA PREPARATION: GROUND SURFACES TO RECEIVE CONCRETE DRIVEWAY AND BITUMINOUS PAVEMENTS SHOULD BE SCARIFIED AND COMPACTED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE GRADING PLANE IN CUT AREAS OR TO 12 INCHES IN AREAS TO RECEIVE FILL. ENGINEERED FILL PLACED IN PROPOSED PAVEMENT AREAS SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY AS OBTAINED BY ASTM TEST METHOD D1557, AND SHOULD EXTEND TO A MINIMUM OF TWO FEET BEYOND THE OUTSIDE EDGES OF PAVEMENT.

14. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION. CONTRACTORS SHALL OBTAIN APPLICABLE O.S.H.A. PERMITS WHEN WORKMEN MUST ENTER TRENCHES GREATER THAN FIVE FEET.



VICINITY MAP
N.T.S.

LEGEND:

ABBREVIATIONS:

(E)	EXISTING
TYP.	TYPICAL
FD.	FOUND
BK.	BOOK
PG.	PAGE
C.O.K.	COUNTY OF KERN
C.O.B.	CITY OF BAKERSFIELD
CONC	CONCRETE
A.C.	ASPHALT PAVEMENT
FG	FINISH GRADE
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
FL	FLOWLINE
FF	FINISHED FLOOR
FP	FINISHED PAD
TP	TOP OF PAVEMENT
GB	GRADE BREAK

EXISTING FIRE HYDRANT
EXISTING POWER POLE
EXISTING STREET LIGHT
FOUND MONUMENT
EXISTING TRAFFIC SIGN

TOPOGRAPHIC SURVEY NOTE

TOPOGRAPHIC SURVEY PREPARED BY PORTER AND ASSOCIATES.

LOCAL BENCHMARK

SET PK NAIL APPROXIMATELY 236 FEET EAST AND 23 FEET NORTH OF THE CENTERLINE INTERSECTION OF 'A' STREET AND SAN EMIDIO STREET

ELEVATION = 450.75'
ADD 400' TO ALL DESIGN ELEVATIONS SHOWN HEREON.

ADDRESS

2201 SAN EMIDIO STREET, BAKERSFIELD

APN

007-084-04

UTILITY NOTE

NOT ALL UTILITIES WERE LOCATED BY THIS SURVEY AND SWANSON ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR UNDERGROUND UTILITIES OR FACILITIES NOT SHOWN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES.

N

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

REGISTERED PROFESSIONAL ENGINEER
ROBERT T. SWANSON
No. 43055
EXP. 3-31-24
STATE OF CALIFORNIA

SWANSON ENGINEERING, INC.
2000 OAK STREET SUITE 150 ~ BAKERSFIELD, CA 93301
p:(661) 831-4919; f:(661) 873-4777

JOB#- 22-062 RTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/20/2024

PTN : 63321-405 FILE: 00-0

(4) 24X40 PORTABLE CLASSROOMS
WILLIAM PENN ELEMENTARY SCHOOL
2201 SAN EMIDIO STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SC inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT
STEPHEN J. CORBIN
C-15738
STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®.AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BAKERSFIELD CITY SCHOOL DISTRICT
"Where The Child Comes First"

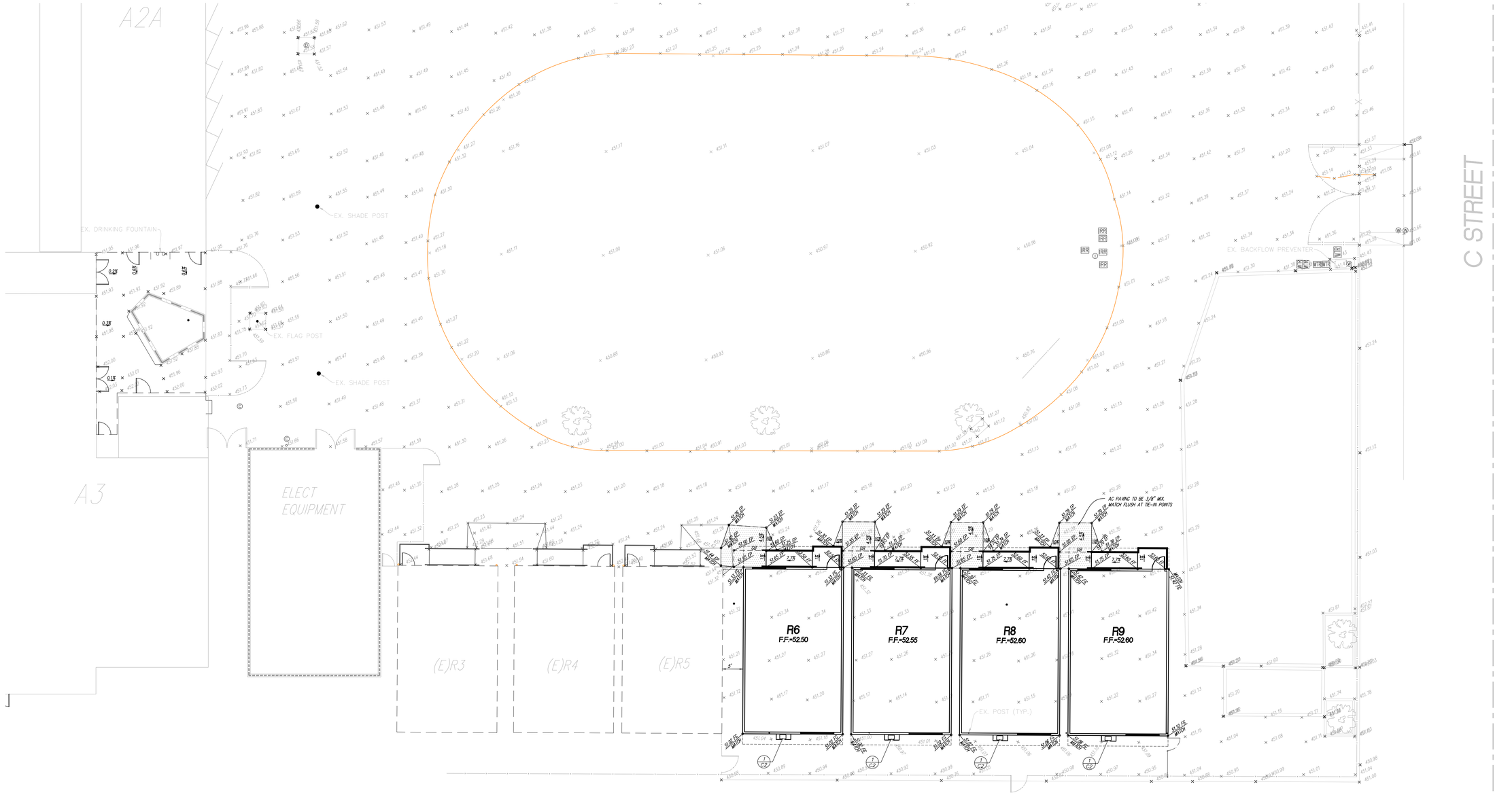
TITLE SHEET

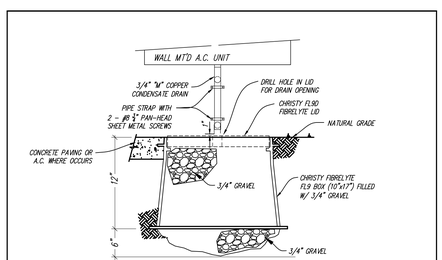
MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
DRAWN :
CHECKED :
DATE : 4-5-23

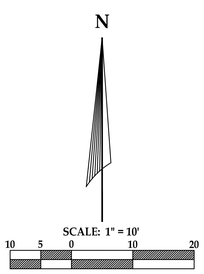
C

1 OF SHEETS





1 / C2 **CONDENSATE DRAIN**



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/20/2024

PTN : 63321-405 FILE: 00-0

(4) 24X40 PORTABLE CLASSROOMS
WILLIAM PENN ELEMENTARY SCHOOL
2201 SAN EMIDIO STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIED, KERN COUNTY, CALIFORNIA

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16788 Exp. 12/31/2025 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

GRADING PLAN

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER ROBERT T. SWANSON No. 43032 EXP. 3-31-24 STATE OF CALIFORNIA

SWANSON ENGINEERING, INC.
2000 OAK STREET SUITE 150 ~ BAKERSFIELD, CA 93301
p:(661) 831-4919; f:(661) 873-4777

JOB# 22-062 RTS

JOB NO.
DRAWN :
CHECKED :
DATE : 04-05-23

C

2 OF SHEETS

DSA **810**

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

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

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

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

PROJECT INFORMATION
School District/Owner: BAKERSFIELD CITY SCHOOL DISTRICT
Project Name/School: WILLIAM PENN ELEMENTARY SCHOOL / (4) 24X40 PORTABLE CLASSROOMS
Project Address: 2201 SAN EMIDIO STREET, BAKERSFIELD, CA. 93304

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

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

School District Acceptance of Acceptable Design Alternates

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

Accepted by: Jason Sitton Title: Director

Signature: Jason Sitton-20220170 Digitally signed by Jason Sitton-20220170 Date: 2024.03.26 10:24:08 -07'00' Date: 03/26/24

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name: BAKERSFIELD FIRE DEPARTMENT	
LFA Review Official: ERNIE MEDINA	
Title: FIRE PLANS EXAMINER	Work Phone: (661) 326-3576
Work Email: EMEDINA@BAKERSFIELDFIRE.US	

LFA Reviewer's Signature: Ernie Medina Date: 12/15/22

California Water Service Company
Fire Flow Test

11/4/2022

Test Date: 11/02/2022 Time: 9:45
District: BAKERSFIELD Zone: LOW Plat: 32-35
Address: 2201 SAN EMIDIO ST
Cross Street: C ST
Requested By: Bakersfield City School District
Conducted By: JACK MOORE
Purpose Of Test: FIRE FLOW
Witnessed By: Calwater: ROBERT BROWN
Others: DAN PEREZ

Outlet No.	Outlet Size	PITOT	Observed	Static Pressure	Residual Pressure	Flow Observed	Flow Avail. @20
Location 1 Hydrant No.: 3072			Address: 729 HOLTBY RD				
1	4.00	16	1718	70	66	1718	6721
2							
3							
4							
Location 2 Hydrant No.:			Address:				
1							
2							
3							
4							
Location 3 Hydrant No.			Address:				
1							
2							
3							
4							
			Total Flow Observed Available @20:			1718	6721

Remarks: GPM 1720

Static/Residual Location: 2200 SAN EMIDIO ST FH #3021

Note:

Regardless of the results of this test, California Water Service Company assumes no liability beyond that stated in the following excerpt from the P.U.C. Tariff Schedule: "The utility (California Water Service Company) will supply only such water at such pressure as may be available from time to time as a result of its normal operation of the system."

PATH OF TRAVEL:

PATH OF TRAVEL (POT) AS INDICATED IS A COMMON BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING ½" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED ¼" VERTICAL. POT IS A MINIMUM OF 48" WIDE. THE SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. PASSING SPACES (11B-405.5.3) AT LEAST 60"X60" SHALL BE LOCATED NOT MORE THAN 200' APART. PARTS OF POT WITH CONTINUOUS GRADIENTS SHALL HAVE 60" LEVEL AREAS AT INTERVALS OF 400' MAXIMUM (11B-403.7) SLOPE SHALL NOT EXCEED 2% CROSS-SLOPE AND 5% RUNNING SLOPE IN THE DIRECTION OF TRAVEL (11B-401.1) SLOPES GREATER THAN 5% TO A MAXIMUM OF 8.33% SHALL BE CONSIDERED AS A RAMP (11B-405). THERE SHALL BE NO DROP-OFF OVER 4" ALONG THE EDGE OF WALK OR LANDING. POT SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS AND OBJECTS PROTRUDING GREATER THAN 4" FROM A WALL, BETWEEN 27" TO 80" ABOVE FINISHED GRADE. ARCHITECT SHALL VERIFY THAT NO BARRIERS EXIST IN THE PATH OF TRAVEL.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE 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 NONCOMPLIANT I) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE 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 NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

CAMPUS DIRECTORY

BLDG #	BUILDING DESCRIPTION	DSA A#
(E) UNIT 'A1'	CLASSROOMS, RESTROOMS	#11645, #52439, #03-115444, #03-122918
(E) UNIT 'A2A'	CLASSROOMS, RESTROOMS	#11645, #52439, #03-115444, #03-122918
(E) UNIT 'A2B'	ADMINISTRATION / CLASSROOMS	#11645, #52439, #03-122918
(E) UNIT 'A3'	CLASSROOM, KITCHEN, MULTI-PURPOSE, LOUNGE	#11645, #52439, #03-122918
(E) 'R1'	SPECIAL ED	#3022
(E) 'R2'	LIBRARY	#3022
(E) 'R3'	MODULAR CLASSROOM	#03-115444
(E) 'R4'	MODULAR CLASSROOM	#03-115444
(E) 'R5'	MODULAR CLASSROOM	#03-116976
'R6'-'R9'	MODULAR CLASSROOM	PER THIS APPLICATION

LEGEND:

- NO WORK SCHEDULE FOR THIS BUILDING
- AREA OF SCHEDULED WORK PER THIS APPLICATION
- (E) ACCESSIBLE RESTROOM
- PATH OF TRAVEL
- PROPERTY LINE
- (E) CHAIN LINK FENCE
- FIRE DEPARTMENT ACCESS

BUILDING CODE ANALYSIS

BUILDING DESIGNATION	APPLICATION #	RELO #	BUILDING USE	BLDG OCC TYPE	TYPE OF CONST	BASIC ALLOWABLE AREA	ACTUAL HT STRY/FT	ACTUAL AREA TOTAL	OCCUPANT LOAD	TOTAL OCCUPANCY	TOTAL OCCUPANCY PER CLUSTER
BUILDING CLUSTER 1	03-115444	(E) R3	CLASSROOMS	E	V-B/NS	9,500	1 STRY/12'-6"	960	960/20 = 48	48	336
	03-116976	(E) R4	CLASSROOMS	E	V-B/NS	9,500	1 STRY/12'-6"	960	960/20 = 48	48	
	PER THIS APPLICATION	(E) R5	CLASSROOMS	E	V-B/NS	9,500	1 STRY/12'-6"	960	960/20 = 48	48	
		R6	CLASSROOMS	E	V-B/NS	9,500	1 STRY/12'-6"	960	960/20 = 48	48	
		R7	CLASSROOMS	E	V-B/NS	9,500	1 STRY/12'-6"	960	960/20 = 48	48	
		R8	CLASSROOMS	E	V-B/NS	9,500	1 STRY/12'-6"	960	960/20 = 48	48	
		R9	CLASSROOMS	E	V-B/NS	9,500	1 STRY/12'-6"	960	960/20 = 48	48	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	

6,720 SF

ACCESSIBLE EGRESS

MINIMUM REQUIRED EGRESS WIDTH PER CBC 2022, SEC 1005.1		MINIMUM REQUIRED EXIT PER CBC 2022 1006	
OCC X 0.2	EGRESS WIDTH (IN") PROVIDED	OCC ≤ 49 (1) EXIT REQ'D	NO. OF EXITS PROVIDED
9.6	36		
9.6	36		
9.6	36		
9.6	36		
9.6	36		
9.6	36		
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

SITE PLAN GENERAL NOTES:

1. SEE ELECTRICAL SITE PLANS FOR ADDITIONAL SITE RELATED WORK. CONTRACTOR SHALL COORDINATE ALL WORK AS REQ'D TO ENSURE A COMPLETE & FINISHED PROJECT.
2. CONTRACTOR TO TAKE ALL NECESSARY AND REQUIRED MEASURES TO PROTECT (E) IRRIGATION & TURF AREAS WITHIN THE JOB SITE, AND SHALL BE RESPONSIBLE TO REPLACE ANY OR ALL BROKEN IRRIGATION SYSTEMS. RESEED TURF AS REQUIRED.
3. CONTRACTOR TO FV ALL (E) UTILITY BOXES, (E) VALVES, ETC. IN AREA OF SCHEDULED WORK. DEMO, REMOVE, RELOCATE AND/ OR MODIFY AS NECESSARY TO COMPLETE THE WORK INDICATED. NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS.
4. CONTRACTOR SHALL PATCH & MATCH ANY ADJACENT SURFACES DAMAGED AS A RESULT OF PERFORMING THE WORK REQUIRED.

GATE SCHEDULE

GATE #	GATE SIZE (EACH LEAF)	GATE MATL	FRAME MATL	HDWR #	DETAIL	PANIC HDWR	REMARKS	GATE #
1	3'-0"X6'-0"	CL	CL	-	18/A3	-	-	1

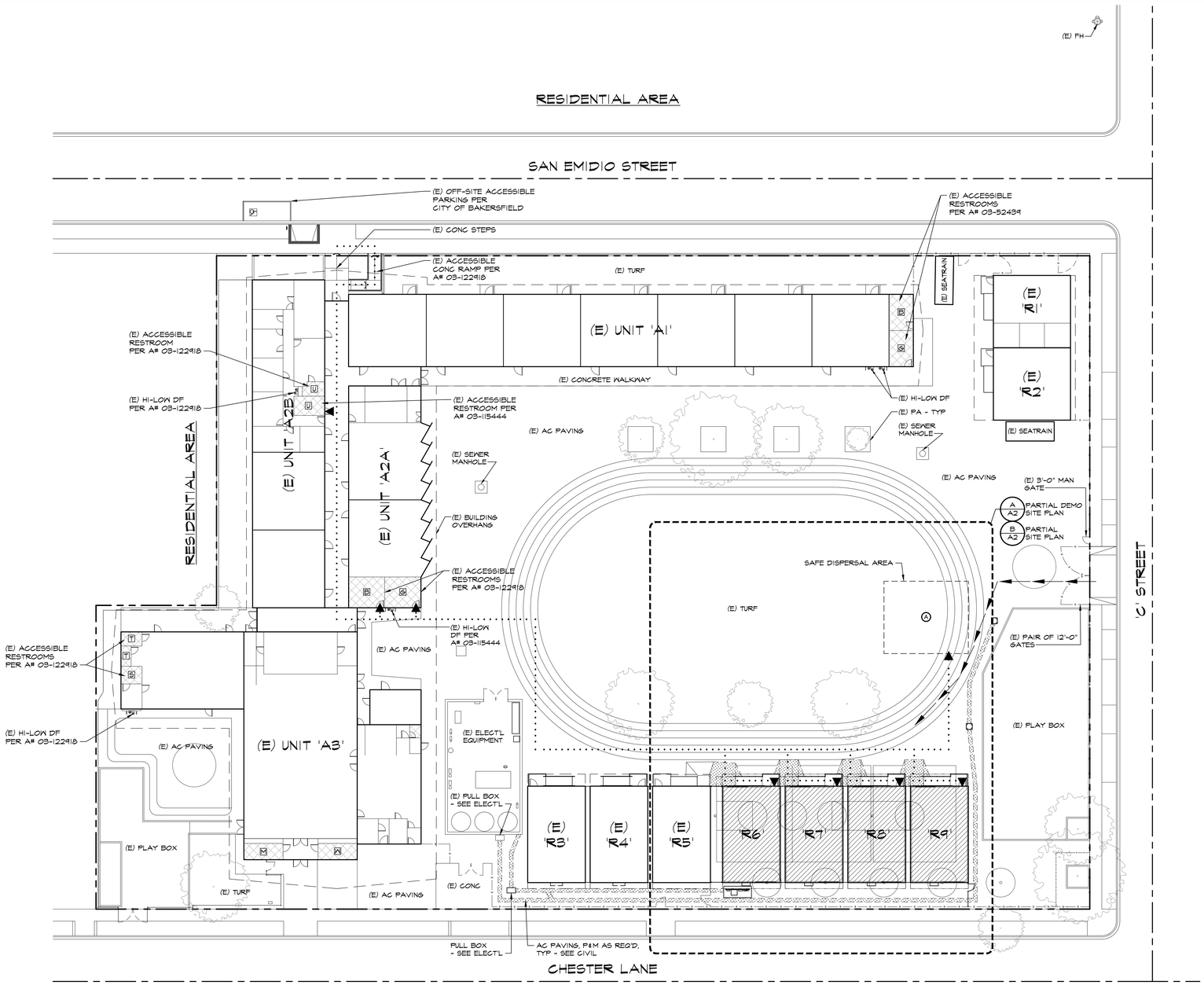
SAFE DISPERSAL AREA

PER CBC 2022 452.1.3 # 1028.5

MAX OCCUPANTS X 3# = MIN. AREA #

MAX OCC/200 = MIN WHEELCHAIR SP REQ'D, W/2 SP MIN → 936 X 3# = 1,008# 936/200 = 1.68

SAFE DISPERSAL AREA INCLUDING WHEELCHAIR SPACE PROVIDE 30"X48" MIN PER WHEELCHAIR → 1,028# REQUIRED 30X35# = 1,050# W/ (2) WHEELCHAIR SPACES PROVIDED, SEE BELOW AREA (A)



PLAN NORTH

OVERALL SITE PLAN

RESIDENTIAL AREA

(E) FH, FLOW TESTED

SCALE: 1" = 20'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/20/2024

PTN: 63321-405 FILE: 15-6

(4) 24x40 PORTABLE CLASSROOMS
WILLIAM PENN ELEMENTARY SCHOOL
2201 SAN EMIDIO STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SC inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
LICENSED ARCHITECT STATE OF CALIFORNIA C-16238 12/31/2025
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

OVERALL SITE PLAN

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1318.1
DRAWN: ED, FS
CHECKED: BCW
DATE: 1/11/24

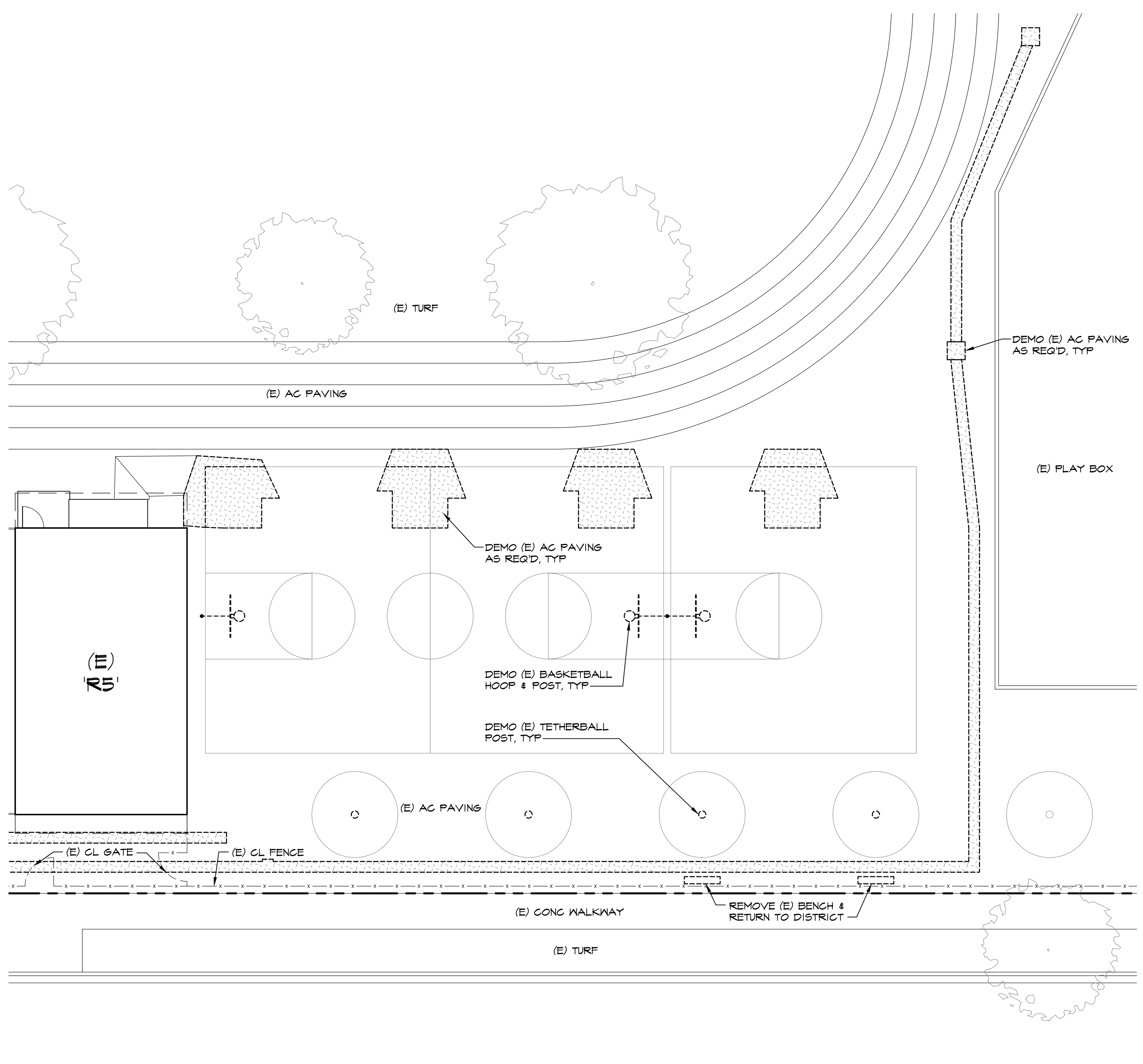
1
4 OF 30 SHEETS

NOTE:

NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA

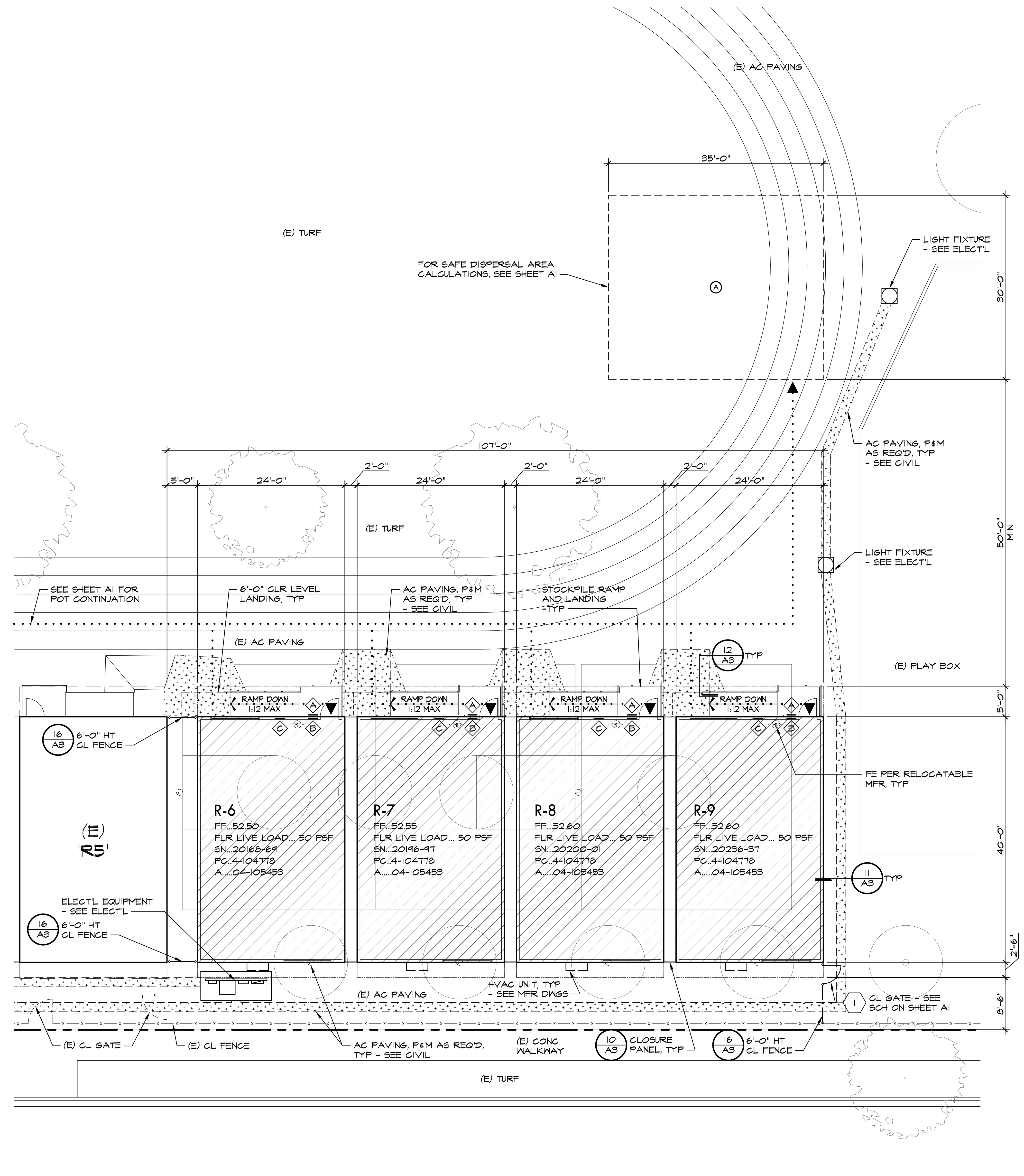
LEGEND:

- NO WORK SCHEDULE FOR THIS BUILDING
- AREA OF SCHEDULED WORK PER THIS APPLICATION
- DEMO (E) AC PAVING AS REQ'D
- AC PAVING - SEE CIVIL
- PATH OF TRAVEL
- PROPERTY LINE
- (E) CHAIN LINK FENCE
- CHAIN LINK FENCE
- A B FOR SIGN MOUNTING, SEE 28/A3 29/A3
- C ASSISTIVE LISTENING 29/A3



A PARTIAL DEMO SITE PLAN

SCALE : 1" = 10'-0"



B PARTIAL SITE PLAN

SCALE : 1" = 10'-0"

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PARTIAL DEMO SITE PLAN & PARTIAL SITE PLAN

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1318.1
DRAWN : ED, FS
CHECKED : BCW
DATE : 1/11/24

A2

1 NOT USED SCALE:

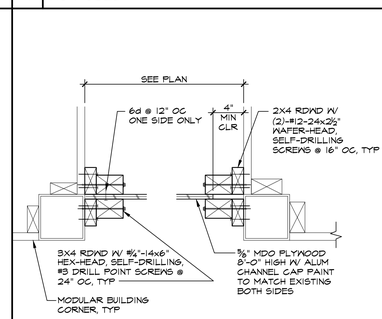
2 NOT USED SCALE:

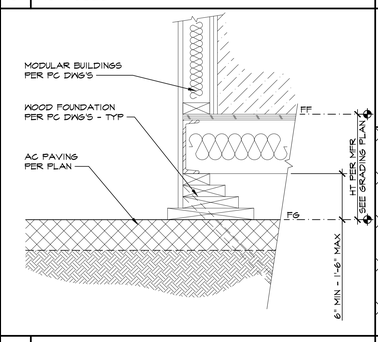
3 NOT USED SCALE:

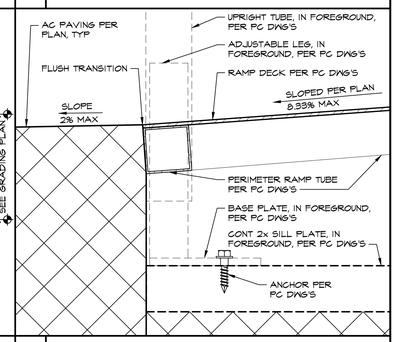
4 NOT USED SCALE:

5 NOT USED SCALE:

6 NOT USED SCALE:







7 NOT USED SCALE:

8 NOT USED SCALE:

9 NOT USED SCALE:

10 CLOSURE PANEL SCALE: 1½" = 1'-0"

11 AC PAVING @ MODULAR BUILDING SCALE: 1½" = 1'-0"

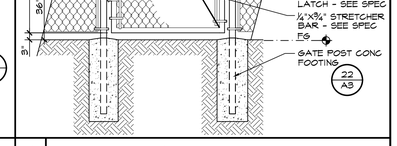
12 RAMP TRANSITION SCALE: 6" = 1'-0"

13 NOT USED SCALE:

14 NOT USED SCALE:

15 NOT USED SCALE:

16 CHAIN LINK FENCE SCALE: ½"= 1'-0"

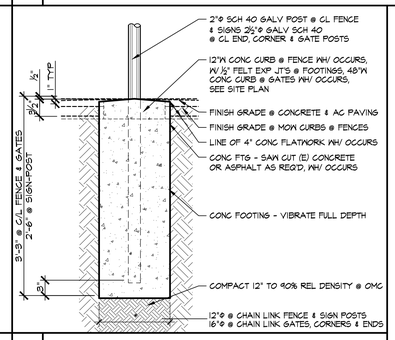


18 CHAIN-LINK GATE SCALE: ½" = 1'-0"

19 NOT USED SCALE:

20 NOT USED SCALE:

21 NOT USED SCALE:

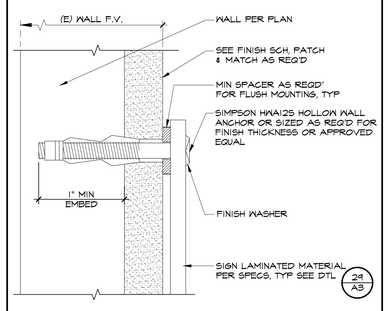


22 POST FOOTING DETAIL SCALE: 1" = 1'-0"

25 NOT USED SCALE:

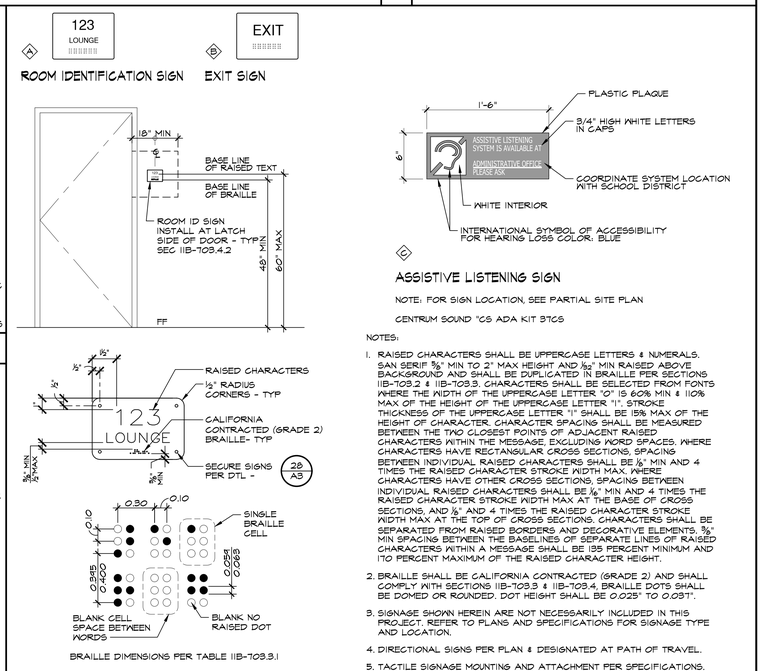
26 NOT USED SCALE:

27 NOT USED SCALE:



28 SIGN ATTACHMENT SCALE: 6" = 1'-0"

29 DOOR SIGNAGE SCALE: NTS



NOTES:

1. RAISED CHARACTERS SHALL BE UPPERCASE LETTERS & NUMERALS. SAN SERIF ⅝" MIN TO 2" MAX HEIGHT AND 1/32" MIN RAISED ABOVE BACKGROUND AND SHALL BE DUPLICATED IN BRAILLE PER SECTIONS 11B-703.2 & 11B-703.3. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN & 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAX OF THE HEIGHT OF CHARACTER. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN THE MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE ⅛" MIN AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE ⅛" MIN AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE BASE OF CROSS SECTIONS, AND ⅛" AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE TOP OF CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS. ⅜" MIN SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT.
2. BRAILLE SHALL BE CALIFORNIA CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 & 11B-703.4. BRAILLE DOTS SHALL BE DOMED OR ROUNDED. DOT HEIGHT SHALL BE 0.025" TO 0.037".
3. SIGNAGE SHOWN HEREIN ARE NOT NECESSARILY INCLUDED IN THIS PROJECT. REFER TO PLANS AND SPECIFICATIONS FOR SIGNAGE TYPE AND LOCATION.
4. DIRECTIONAL SIGNS PER PLAN & DESIGNATED AT PATH OF TRAVEL.
5. TACTILE SIGNAGE MOUNTING AND ATTACHMENT PER SPECIFICATIONS.
6. VISUAL CHARACTERS ON SIGN PER SPEC.

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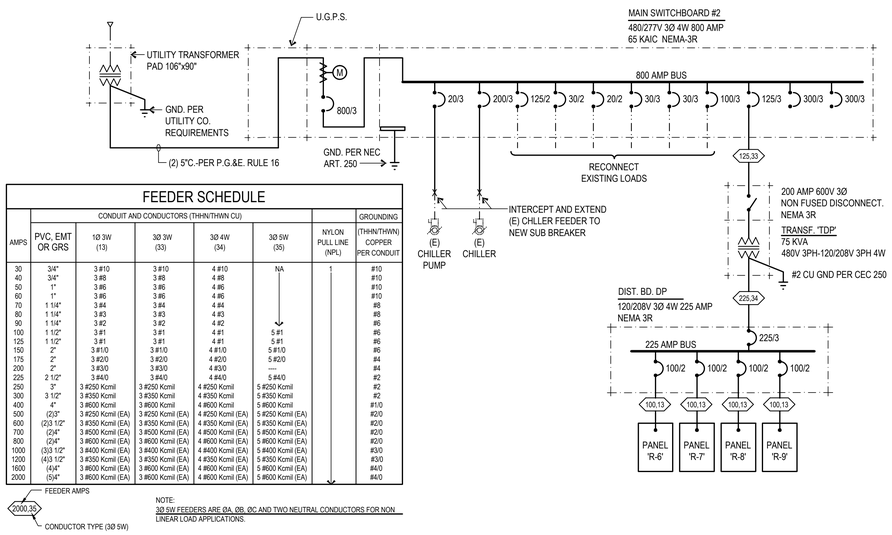


FEEDER SCHEDULE

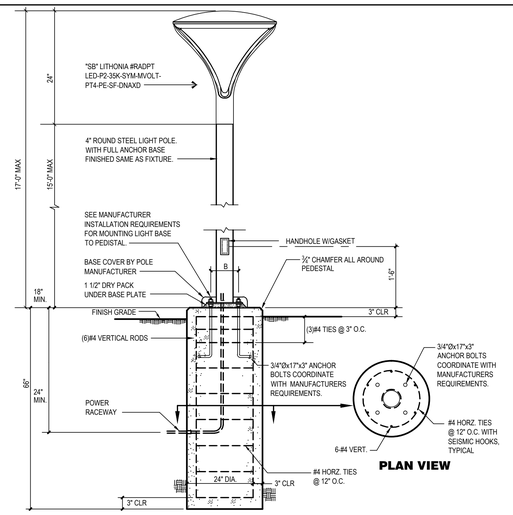
AMPS	CONDUIT AND CONDUCTORS (THHN/THWN CU) PVC, EMT OR GRS	1Ø 3W (13)	3Ø 3W (33)	3Ø 4W (34)	3Ø 5W (35)	NYLON PULL LINE (NPL)	GROUNDING (THHN/THWN) COPPER PER CONDUIT
30	3/4"	3 #10	3 #10	4 #10	NA	1	#10
40	3/4"	3 #8	3 #8	4 #8			#10
50	1"	3 #6	3 #6	4 #6			#10
60	1"	3 #6	3 #6	4 #6			#8
70	1 1/4"	3 #4	3 #4	4 #4			#8
80	1 1/4"	3 #3	3 #3	4 #3			#6
90	1 1/4"	3 #2	3 #2	4 #2			#6
100	1 1/2"	3 #1	3 #1	4 #1	5 #1		#6
125	1 1/2"	3 #1	3 #1	4 #1	5 #1		#6
150	2"	3 #1/0	3 #1/0	4 #1/0	5 #1/0		#6
175	2"	3 #2/0	3 #2/0	4 #2/0	5 #2/0		#4
200	2"	3 #3/0	3 #3/0	4 #3/0			#4
225	2 1/2"	3 #4/0	3 #4/0	4 #4/0	5 #4/0		#2
250	3"	3 #250 Kcmil	3 #250 Kcmil	4 #250 Kcmil	5 #250 Kcmil		#2
300	3 1/2"	3 #350 Kcmil	3 #350 Kcmil	4 #350 Kcmil	5 #350 Kcmil		#2
400	4"	3 #600 Kcmil	3 #600 Kcmil	4 #600 Kcmil	5 #600 Kcmil		#1/0
500	(2)3"	3 #250 Kcmil (EA)	3 #250 Kcmil (EA)	4 #250 Kcmil (EA)	5 #250 Kcmil (EA)		#2/0
600	(2)3 1/2"	3 #350 Kcmil (EA)	3 #350 Kcmil (EA)	4 #350 Kcmil (EA)	5 #350 Kcmil (EA)		#2/0
700	(2)4"	3 #500 Kcmil (EA)	3 #500 Kcmil (EA)	4 #500 Kcmil (EA)	5 #500 Kcmil (EA)		#2/0
800	(2)4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#2/0
1000	(3)3 1/2"	3 #400 Kcmil (EA)	3 #400 Kcmil (EA)	4 #400 Kcmil (EA)	5 #400 Kcmil (EA)		#3/0
1200	(4)3 1/2"	3 #350 Kcmil (EA)	3 #350 Kcmil (EA)	4 #350 Kcmil (EA)	5 #350 Kcmil (EA)		#3/0
1600	(4)4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#4/0
2000	(5)4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#4/0

2000,3S — FEEDER AMPS; CONDUCTOR TYPE (3Ø 5W)

NOTE:
3Ø 5W FEEDERS ARE ØA, ØB, ØC AND TWO NEUTRAL CONDUCTORS FOR NON LINEAR LOAD APPLICATIONS.

ELECTRICAL SINGLE LINE DIAGRAM

NO SCALE — 2 / E1.00



POLE BASE DETAIL

NOTE: NOT PART OF DSA REVIEW AND APPROVAL

NO SCALE — 4 / E1.00

NOTED ITEM , INCLUDING GATES, SHALL NOT IMPEDE EGRESS OR REDUCE REQUIRED EGRESS WIDTH, OR BE LOCATED IN, OR IMPEDE DESIGNATED FIRE LANE(S) OR EMERGENCY ACCESS ROUTES

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	NAME	DESCRIPTION
D 90	FIXTURE TYPE "D" AND WATTAGE "90"	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	DUPLEX CONVENIENCE OUTLET MOUNTED @ +15" MIN. TO BOTTOM OF BOX. U.O.N.	20A, NEMA GROUNDED
WP	WEATHERPROOF CONVENIENCE OUTLET MOUNTED @ +15" MIN. TO BOTTOM OF BOX. U.O.N.	20A, NEMA GROUNDED
	QUADDUPLEX CONVENIENCE OUTLET MOUNTED @ +15" MIN. TO BOTTOM OF BOX. U.O.N.	20A, NEMA GROUNDED
	ELECTRICAL SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	ELECTRICAL PANEL	REFER TO PANEL SCHEDULE
	TERMINAL CABINET	24"Hx18"Wx4"D
	MOTOR WITH FUSIBLE DISCONNECT SWITCH, W.P. AS REQ'D	REFER TO MECHANICAL PLANS & SPECIFICATIONS.
	JUNCTION BOX	4" SQUARE BOX & FLUSH PLATE MINIMUM
	WIRING BELOW GRADE	3/4" CONDUIT MINIMUM.
	WIRING IN WALL OR CEILING	
		3/4" CONDUIT MINIMUM.
	FLEXIBLE CONDUIT	3/4" CONDUIT MINIMUM.
	CONDUIT STUB AND CAP	
	HASH MARKS DENOTES QUANTITY OF CONDUCTORS	
A-15'	HOME RUN (TO PANEL "A", CIRCUIT "15")	3/4" CONDUIT MINIMUM.
	EXISTING CONDUIT TO REMAIN	
(E)	EXISTING ITEM TO REMAIN	
U.O.N.	UNLESS OTHERWISE NOTED	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	

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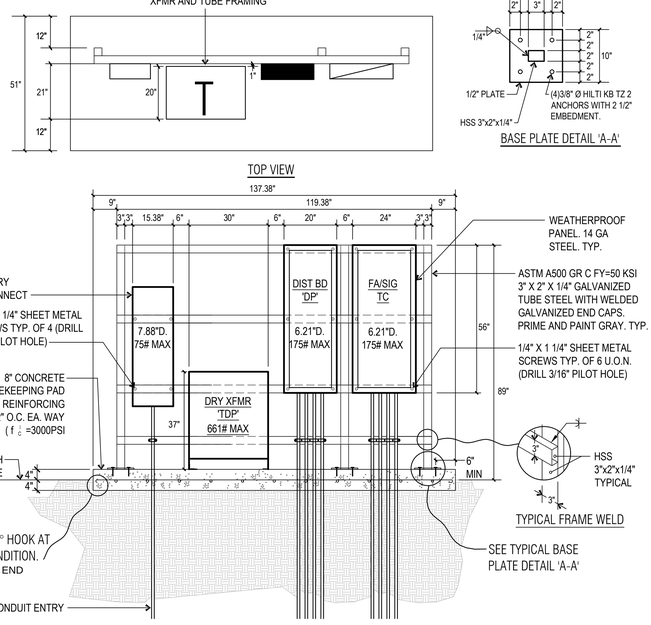
WILLIAM PENN ELEMENTARY SCHOOL
2201 SAN EMIDIO STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

GENERAL ELECTRICAL NOTES

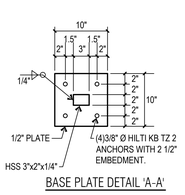
1. PROVIDE MINIMUM 36" WORK CLEARANCE IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W (PER CEC-110.26).
2. PROVIDE MINIMUM 42" WORK CLEARANCE IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 480/277V 3Ø 4W (PER CEC-110.26).
3. PROVIDE MINIMUM 30" WIDE WORK SPACE FOR PANELS, SERVICE OR EQUIPMENT (PER CEC-110.26).
4. SPECIFY THAT ONLY LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH INSTRUCTIONS INCLUDED IN THE LISTING AND LABELING (PER CEC-110.3(B)).
5. ALL SERVICE EQUIPMENT TO BE SUITABLE FOR AVAILABLE SHORT CIRCUIT CURRENT PER CEC ART 110.9.
6. PERMANENTLY DELINEATE ON THE FLOOR WORKING CLEARANCE IN FRONT OF ALL ELECTRICAL EQUIPMENT WITH THE WORDING "NO STORAGE IN THIS AREA". APPLIES TO ELECTRICAL ROOMS AND CLOSETS ONLY.
7. PRIOR TO ORDERING THE SWITCHGEAR, THE ELECTRICAL CONTRACTOR SHALL COORDINATE A.I.C. RATINGS OF SWITCHBOARDS AND PANEL BOARDS PER UTILITY COMPANY REQUIREMENTS. EVIDENCE OF SUCH COORDINATION SHALL BE AVAILABLE ON SITE FOR REVIEW BY INSPECTOR OF RECORD (IOR).
8. SWITCHBOARDS AND PANEL BOARDS THAT ARE LIKELY TO BE ENERGIZED WHILE BEING MAINTAINED OR SERVICED BY QUALIFIED PERSONNEL SHALL BE LABELED WARNING OF POSSIBLE ARC FLASH HAZARDS AND IDENTIFIED WITH THE APPROPRIATE ARC FLASH PROTECTION RATING PERSONAL PROTECTIVE EQUIPMENT (PPE) SIGNAGE (PER CEC ART. 110.16).
9. CONTRACTOR IS TO PROVIDE ENGRAVED NAMEPLATES ON EACH SERVICE PANEL, TRANSFORMER, DISCONNECT SWITCH MOTOR STARTER, ETC. (PER CEC-110.3).
10. CONTRACTOR WILL BE REQUIRED TO PROVIDE A LABEL PER CEC ARTICLE 408.4(A). PROVIDE TYPED PANEL BOARD DIRECTORIES. PANEL BOARDS SHALL ALSO BE MARKED COMPLIANT WITH CEC 408.4(B) FOR ORIGINATED SOURCE OF POWER.
11. NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN 6 FEET OF THE FLOOR OR TO THE STRUCTURAL CEILING ABOVE THE SPACE OF ELECTRICAL EQUIPMENT (PER CEC ART. 110.26).
12. THE DISCONNECTING MEANS FOR EACH SERVICE, FEEDER OR BRANCH CIRCUIT ORIGINATING ON A SWITCHBOARD OR PANELBOARD SHALL BE LEGIBLY AND DURABLY MARKED TO INDICATE ITS PURPOSE UNLESS SUCH PURPOSE IS CLEARLY EVIDENT (CFC-605.3.1).
13. ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:

CALIFORNIA BUILDING CODE	2022
CALIFORNIA ELECTRICAL CODE	2022
NON RESIDENTIAL CEC ENERGY STANDARDS	2022

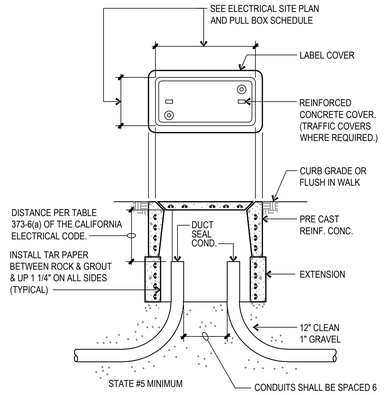


EQUIPMENT RACK DETAIL

NO SCALE — 1 / E1.00



BASE PLATE DETAIL 'A-A'

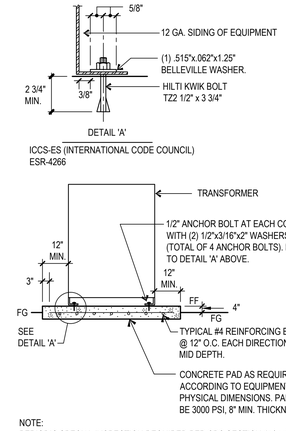


COORDINATE WITH THE DISTRICT ALL LOCATIONS AT UNDERGROUND PULL BOXES PRIOR TO INSTALLATION.

CONDUITS SHALL BE SPACED 6 TIMES THE TRADE DIAMETER OF THE LARGEST RACEWAY PER ARTICLE 370-28(a)(2) OF THE CALIFORNIA ELECTRICAL CODE.

PULL BOX DETAIL

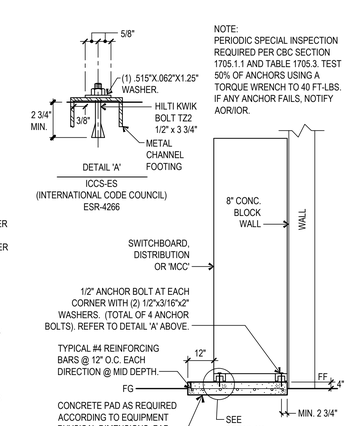
NOT TO SCALE — 5 / E1.00



NOTE:
PERIODIC SPECIAL INSPECTION REQUIRED PER CBC SECTION 1705.1.1 AND TABLE 1705.3. TEST 50% OF ANCHORS USING A TORQUE WRENCH TO 40 FT-LBS. IF ANY ANCHOR FAILS, NOTIFY AOR/IOR.

TRANSFORMER MOUNTING DETAIL

NOT TO SCALE — 6 / E1.00



SWITCHBOARD MOUNTING DETAIL

NOT TO SCALE — 7 / E1.00

MEP COMPONENT ANCHORAGE NOTE:

All mechanical, plumbing , and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2022 CBC Sections. 1617A.1.18 through 1617A.1.26 and ASCE 7 -16 Chapter 13,26 and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (e .g. hard, wired) to the building utility services such as electricity, gas or water. "Permenantly attached" shall include all electrical connections except plugs for 110/220 volt receptacles having flexible cable.
3. Temporary, movable equipment or mobile equipment which is heavier than 400 lbs or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both traverse and longitudinal directions

A.Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B.Components weighing less than 20 pounds or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage for all mechanical, electrical and plumbing components shall be subject to 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:

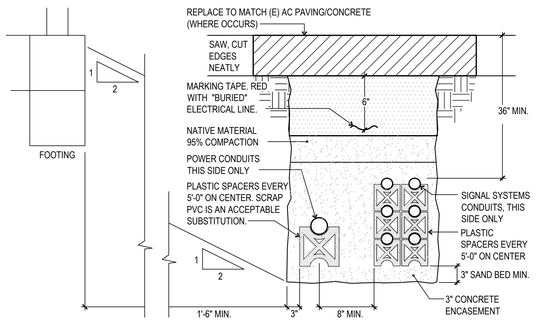
Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5., 13.6.6, 13.6.7, 13.6.8 and 2022 CBC Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

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 pre-approved installation guide (e.g. OSHPD OPM for 2013 CBC or later), Copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems(E):

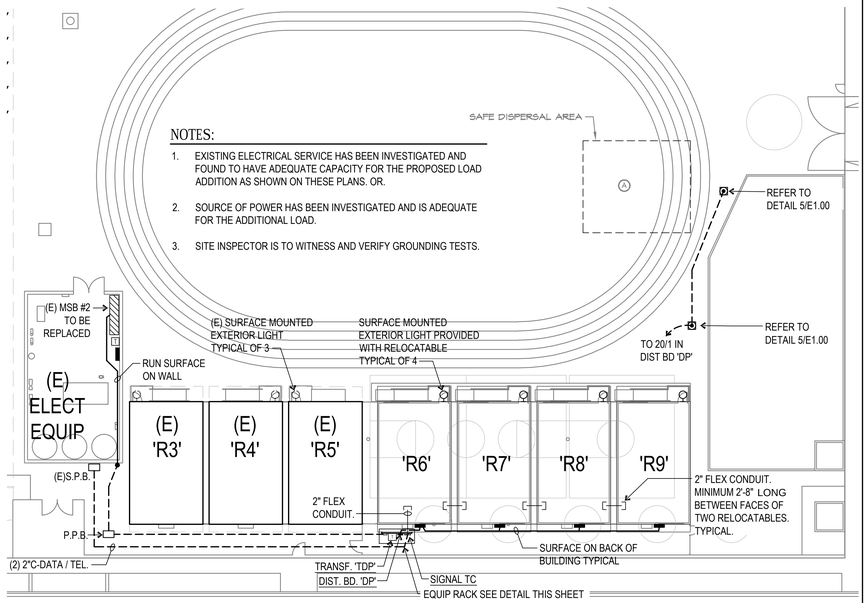
MP☐ MD☐ PP☐ E ☒ Option 1: Detailed on the approved drawings with project specific notes and details.

MP☐ MD☐ PP☐ E ☐ Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#) #OPM-0052-13



TRENCH DETAIL

NOT TO SCALE — 3 / E1.00



ELECTRICAL SITE PLAN

SCALE : 1" = 20'-0"

0 10' 20' 30' 40' 60' NORTH

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
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STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

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Ph. (559) 276-5144
Fax (559) 900-4929
Email @ dpgengineering.com

ELECT. SITE PLAN, SYMBOL LEGEND, SINGLE LINE, DETAILS AND NOTES

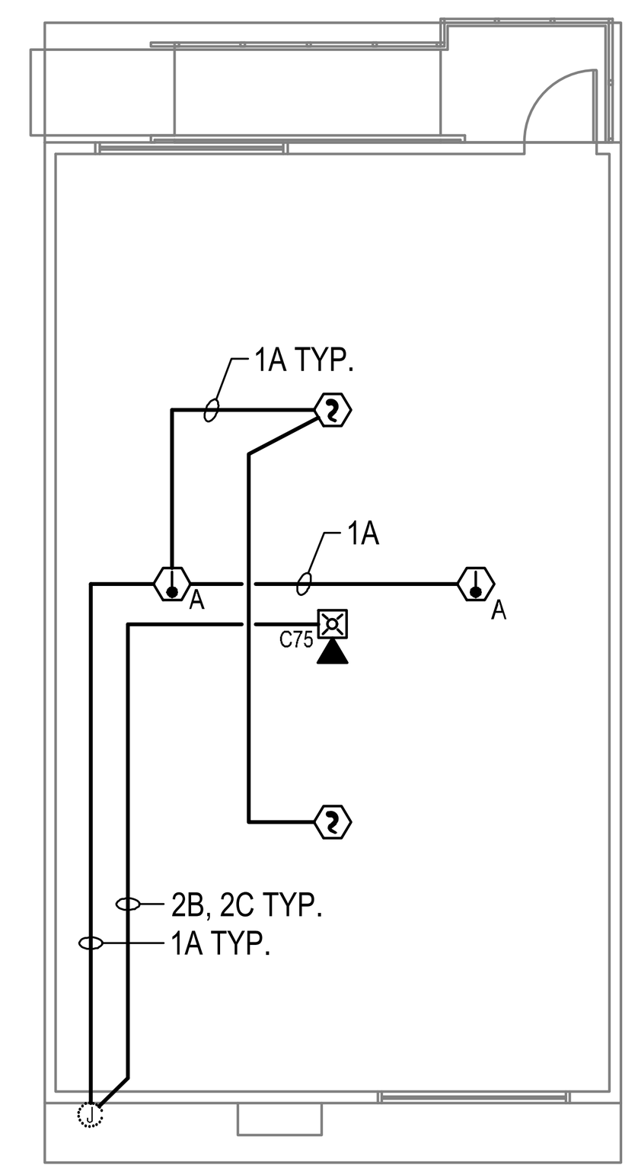
MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1318.1
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 03/08/23

1.00 OF SHEETS

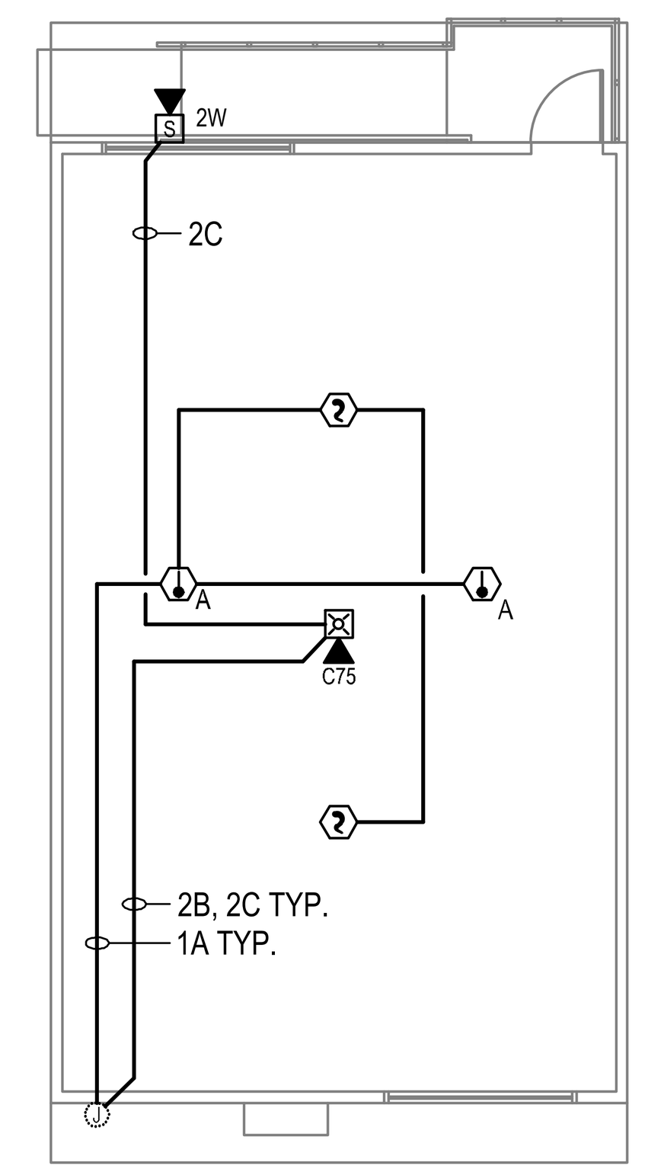
FIRE DETECTION SYSTEM NOTES:

1. ALL WIRING IS SHOWN DIAGRAMMATICALLY. CONTRACTOR MAY VARY SEQUENCE OR CIRCUITRY: HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED FROM DEVICE TO DEVICE OR FATC TO DEVICE OR FACP TO FATC OR FATC TO FATC. NO PARALLEL BRANCHING SHALL BE ALLOWED. ANY CONNECTION OF ANY BREAK IN ANY CONDUCTOR SHALL BE BY TERMINAL CONNECTION AT A DEVICE OR AT A FATC ONLY.
2. ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STAKE ON LUG CONNECTORS. PANDUIT TAG (TIE WRAP) SEPARATE.
3. FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS, DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
4. FIRE ALARM PANEL, REMOTES AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS WITHOUT SPECIAL MOUNTING DETAILS. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS AT +48" ABOVE FINISHED FLOOR.
5. ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE #12 & #14 AWG, STRANDED (19 STRANDS OR LESS) COPPER THHN OR THWN OR #16/2 SLC LOOP UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
6. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7. UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
7. INSTALLATION OF F.A. EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED. INSTALLER SHALL BE NICET LEVEL 3 CERTIFIED. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT / ENGINEER OF THE PROJECT.
8. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION
9. WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORM BY THE FIRE ALARM EQUIPMENT DISTRIBUTOR (OR VENDOR OR MANUFACTURER) SHALL BE SUBMITTED TO DSA (WITH COPIES TO THE ELECTRICAL ENGINEER AND THE ARCHITECT OF RECORD) AND THE INSTALLATION INCLUDES TESTING AND OPERATION THAT CONFORMS IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN C.B.C. SECTION 907.8. THE CONTRACTOR SHALL COMPLETE A FIRE ALARM SYSTEM RECORD AND COMPLETION FORM AND SUBMIT TO DSA.
10. 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 AND INSPECTOR OF RECORD. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND OR TESTING.
11. THE CERTIFIED INSTALLER WILL BE REQUIRED TO PROVIDE ALL FACTORY WARRANTIES AT THE CLOSE UP OF THE PROJECT.
12. SMOKE DETECTORS SHALL BE MOUNTED MINIMUM 36" FROM SUPPLY AND RETURN AIR VENTS PER MANUFACTURER'S RECOMMENDATIONS AND NFPA72, 17.7.4.1.(2022 EDITION WITH SFM AMENDMENTS).
13. THE CONTRACTOR SHALL ARRANGE A MEETING WITH F.A. INSTALLER PRIOR TO ROUGH-IN TO COORDINATE THE INSTALLATION.
14. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY CBC 907.6.5. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.
15. ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 DBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5DBA ABOVE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH EVER IS GREATER. MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS PER CFC 907.5.2.1.1. THE FIRE ALARM EVACUATION SIGNAL SHALL SOUND A SYNCHRONIZED THREE PULSE TEMPORAL PATTERN AS DESCRIBED IN NFPA 72 (CBC 907.5.2.1.3 AND NFPA 18.4.2.1.
16. THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR PULSE TEMPORAL PATTERN PER NFPA 720 5.8.6.5.1
17. MICROPHONE ACCESSIBILITY SHALL COMPLY WITH CBC 11B-305 AND 11B-308
18. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED. VISUAL NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED.
19. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH STATE FIRE MARSHAL'S REGULATIONS AS ADOPTED AND AMENDED IN THE 2022 EDITION, CBC CHAPTER 35 (CBC SEC. 907.7, 907.8) & NFPA 72, 2022 EDITION.
20. PROVIDE ACCESS HOLE FOR ALL ATTIC HEAT DETECTORS LOCATED IN NON-ACCESSIBLE CRAWL OR ATTIC SPACES.
21. ALL BATTERIES SHALL BE STAMPED WITH DATE PUT INTO SERVICE.
22. MANUAL PULL STATIONS SHALL NOT REQUIRE TIGHT GRIPPING, OR TWISTING OF THE WRIST TO OPERATE.
23. SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH 2022 CBC, 2022 CFC, 2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE AND NFPA 720, STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT (2015)
24. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
25. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL" CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
26. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAYOR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
27. PROVIDE FIRE WATCH TO COMPLY WITH DSA IRF-2 IF DURING CONSTRUCTION THE FIRE ALARM SYSTEM IS NOT OPERATIONAL AND STUDENTS ARE PRESENT IN CAMPUS.



F.A. FLOOR PLAN
NTS 1/E2.00

RELOCATABLE UNITS: 'R6', 'R7' AND 'R9'. SEE SINGLE LINE DIAGRAM FOR ADDRESSES AND WIRING.



F.A. FLOOR PLAN
NTS 2/E2.00

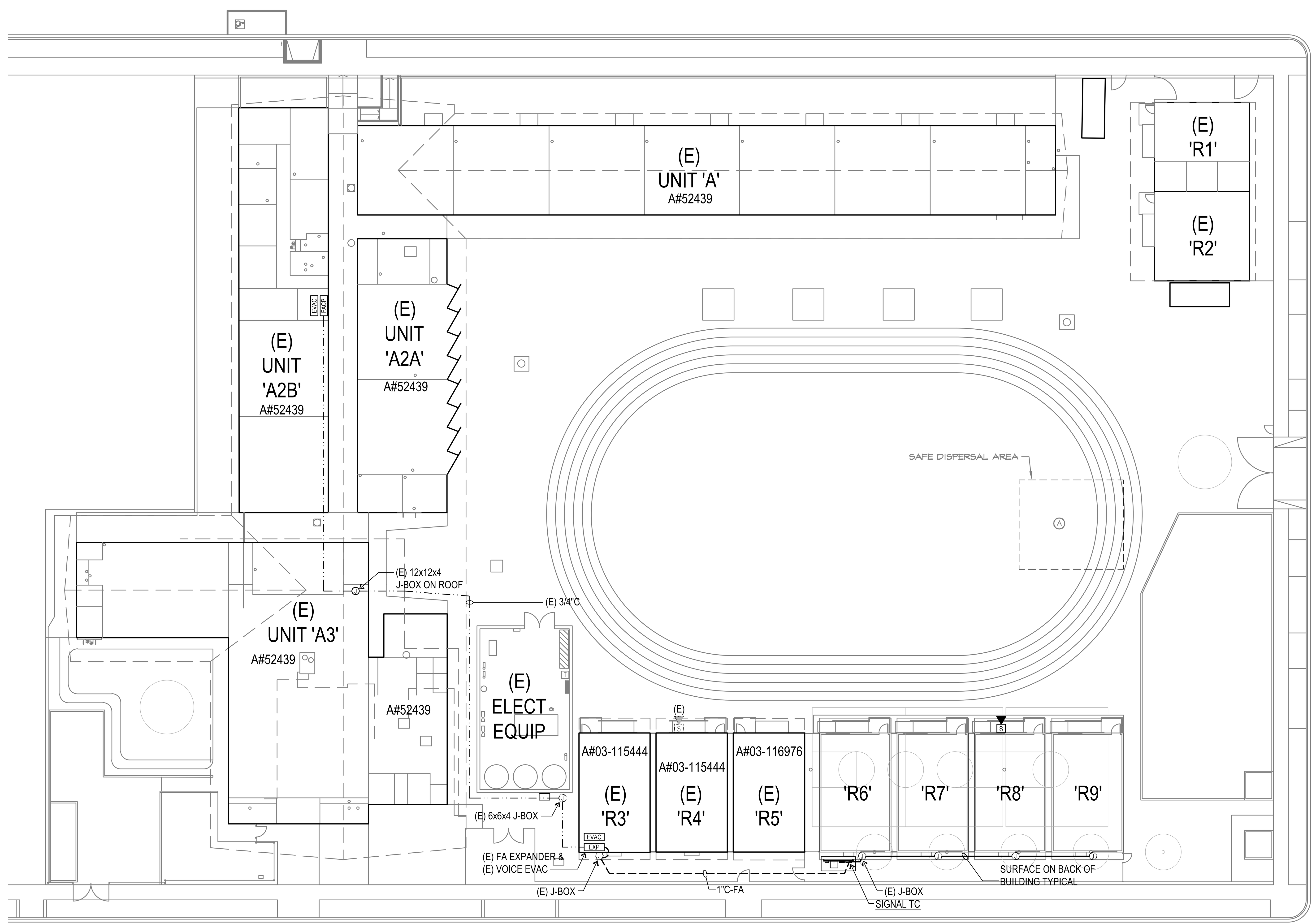
RELOCATABLE UNIT: 'R8'. SEE SINGLE LINE DIAGRAM FOR ADDRESSES AND WIRING.

FIRE ALARM SYMBOL SCHEDULE

SYMBOL	NAME	DESCRIPTION	CSFM #
(E)	EXISTING ITEM		
U.O.N.	UNLESS OTHERWISE NOTED		
	WIRING UNDERGROUND OR IN WALL	3/4"C MIN U.O.N.	
	EXISTING CONDUIT TO REMAIN		
FACP	EXISTING FIRE ALARM CONTROL PANEL	HOCHIKI # FIRENET 4127	7165-0410:0159
EXP	EXISTING FIRE ALARM EXPANDER PANEL	HOCHIKI # FN-642-ULADA	7315-0410:0166
	TERMINAL CABINET	24"HX18"WX4"D	
EVAC	EXISTING FIRE ALARM VOICE EVACUATION AMPLIFIER	HOCHIKI #EVAX-25	6911-0410:0176
SOM	EXISTING OUTPUT MODULE	HOCHIKI #DCP-SOM-A	7300-0410:0150
A	ATTIC HEAT DETECTOR WITH BASE	HOCHIKI #ATJ-EA BASE #YBN-NSA-4	7270-0410:0203 7270-0410:0203
	PHOTOELECTRIC SMOKE DETECTOR WITH BASE	HOCHIKI #ALN-V BASE #HSB-NSA-6	7272-0410:0204 7272-0410:0204
xW C(MC)cd	F.A. SPEAKER / STROBE. (CEILING MTD.) xW = WATTAGE C = CEILING MOUNTED, (MC)cd= MULTI-CANDELA SETTINGS	HOCHIKI #HSSPKCLPW (SEE PLANS FOR SETTINGS)	7320-0410:0194
S xW	FIRE ALARM EXTERIOR SPEAKER. (WALL MTD.) xW = WATTAGE	GENTEX #WSSPKR (SEE PLANS FOR SETTINGS)	7320-0569:0141
	END-OF-LINE RESISTOR	PER MANUFACTURER SPECIFICATION	

FIRE ALARM DEVICE SEQUENCE OF OPERATION MATRIX

SYSTEM INPUT → / SYSTEM OUTPUT ↓	AREA SMOKE OR HEAT DETECTORS	SPRINKLER RISER FLOW SWITCH	SPRINKLER RISER TAMPER SWITCH	POWER FAILURE GROUND FAULT	TROUBLE	ELECTRICAL SUPERVISION	MANUAL PULL STATION
ANNUNCIATE AT ADMINISTRATION OFFICE	•	•	•	•	•	•	•
ACTIVATE AUDIO/VISUAL THRU-OUT CAMPUS	•	•					•
CENTRAL STATION MONITORING	•	•	•	•			•
ACTIVATE VOICE EVACUATION PANEL	•						



FIRE ALARM SITE PLAN

SCALE : 1" = 20'-0"

0 10' 20' 30' 40' 60'

NORTH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/20/2024

PTN : 63321-405 FILE: 00-0

(4) 24x40 PORTABLE CLASSROOMS

WILLIAM PENN ELEMENTARY SCHOOL
2201 SAN EMIDIO STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16788 REN 11/30/25 STATE OF CALIFORNIA
STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph. (559) 276-5144
Fax (559) 900-4929
Email @ dpgengineering.com

REGISTERED PROFESSIONAL ENGINEER DAVOR P. GOLIK 17151 EXP. 09/30/25 ELECTRICAL STATE OF CALIFORNIA

FIRE ALARM SITE PLAN, SYMBOL LEGEND, DETAILS NOTES AND SCHEDULES

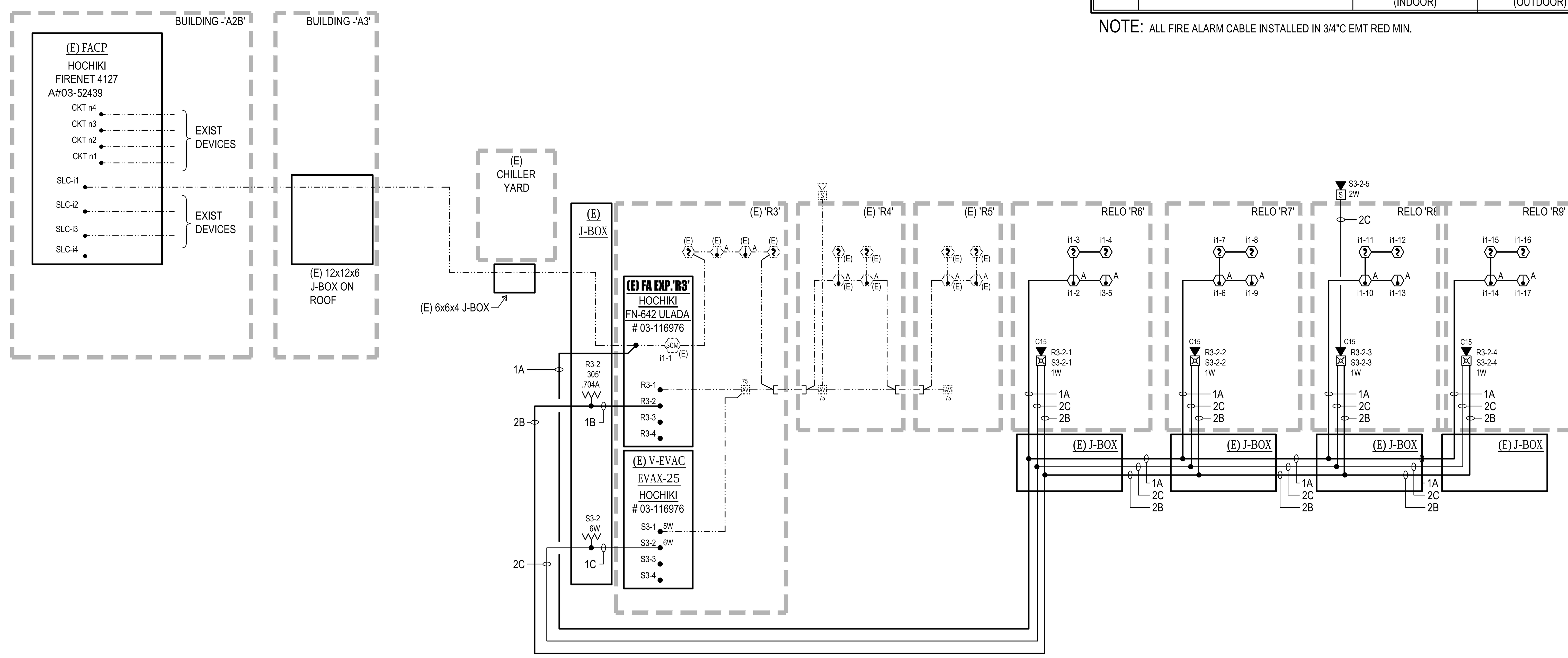
MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1318.1
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 03/08/23

2.00 OF SHEETS

FA CABLE SCHEDULE			
'A'	ADDRESSABLE FA COMMUNICATION CABLE	WEST PENN #D990 (INDOOR)	WEST PENN #AQ225 (OUTDOOR)
'B'	2#12 CU.	WEST PENN #998 (INDOOR)	WEST PENN #AQ227 (OUTDOOR)
'C'	SPEAKER CABLE 14/2	WEST PENN #972 (INDOOR)	WEST PENN #AQ295 (OUTDOOR)

NOTE: ALL FIRE ALARM CABLE INSTALLED IN 3/4"C EMT RED MIN.



FIRE ALARM SINGLE LINE DIAGRAM

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

FACP BATTERY CALCULATION

(E) Fire Alarm Control Panel **(E) FACP**

POWER REQUIREMENTS

	No.	CURRENT [A] SUPERVISORY	ALARM
(E) PANEL OVERHEAD	-	0.3500	0.620
(E) NAC CKTS SUMMARY	0	-	0.000
ADD'L NAC CKTS	0	-	0.000
(E) INITIATION DEVICES	39	0.0117	0.188
(N) INITIATION DEVICES	16	0.0048	0.056
(E) EXPANDERS	1	0.1300	-
(N) EXPANDERS	0	0.0000	-
(E) DIGITAL ALRAM COMM	1	0.0200	0.020
(E) SOM	1	0.0002	0.006
(E) ZONE MODULE	4	0.0006	0.003
TOTALS		0.3665	0.864

BATTERY CAPACITY

SUPERVISORY POWER = 24 Hr * 0.3665A = 8.796 AHr
ALARM POWER = 0.25 Hr * 0.8635A = 0.216 AHr

TOTAL POWER REQUIREMENT = 9.012 AHr
WITH 25% SAFETY FACTOR = 11.265 Ahr
MINIMUM BATTERY CAPACITY = 12 AHr
USE NOTIFIER BATTERIES (2) BAT-12120-BP

Note:
1. PRIOR TO START OF CONSTRUCTION, PERFORM BATTERY TEST AND PROVIDE REPORT TO EOR. INCLUDE IN REPORT, EXISTING SUPERVISORY AND ALARM CURRENT.
2. PROVIDE BATTERY BOX AS REQUIRED

NAC EXTENDER CALCULATION

(E) EXTENDER PANEL **(E) EXP-R3**

POWER REQUIREMENTS

	No.	CURRENT [A] SUPERVISORY	ALARM
(E) PANEL OVERHEAD	-	0.350	0.620
(E) NAC CKTS SUMMARY	1	-	0.528
ADD'L NAC CKTS SUMMARY	1	-	0.704
TOTALS		0.350	1.852

BATTERY CAPACITY

SUPERVISORY POWER = 24 Hr * 0.35A = 8.400 AHr
ALARM POWER = 0.25 Hr * 1.852A = 0.463 AHr

TOTAL POWER REQUIREMENT = 8.863 AHr
WITH 25% SAFETY FACTOR = 11.079 Ahr
MINIMUM BATTERY CAPACITY = 12 AHr
USE NOTIFIER BATTERIES (2) BAT-12120-BP

Note:
1. PRIOR TO START OF CONSTRUCTION, PERFORM BATTERY TEST AND PROVIDE REPORT TO EOR. INCLUDE IN REPORT, EXISTING SUPERVISORY AND ALARM CURRENT.
2. PROVIDE BATTERY BOX AS REQUIRED

VOLTAGE DROP CALCULATION

(E) NAC CKT 'R3-1'

VD = Voltage Drop [V]
I = Current [A] (0.528A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (100')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$$VD = \frac{K * I * 2L}{CM} = \frac{11 * 0.528 * 2 * 100}{6530} = 0.178\ V$$

$$VD\% = \frac{VD}{20.4} = 0.9\%$$

VOLTAGE DROP CALCULATION

NAC CKT 'R3-2'

VD = Voltage Drop [V]
I = Current [A] (0.704A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (305')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$$VD = \frac{K * I * 2L}{CM} = \frac{11 * 0.704 * 2 * 305'}{6530} = 0.723\ V$$

$$VD\% = \frac{VD}{20.4} = 3.5\%$$

BATTERY CALCULATION

(E) Voice Evac. Amplifier Cabinet 'EVAX-25'

POWER REQUIREMENTS

	CURRENT [A] STANDBY	ALARM
PANEL OVERHEAD	0.180	1.000
(E) SPEAKER LOAD	-	0.320
SPEAKER LOAD	-	0.384
TOTALS	0.180	1.704

BATTERY CAPACITY

SUPERVISORY POWER = 24 Hr * 0.18A = 4.320 AHr
SPEAKER LOAD = 0.25 Hr * 1.704A = 0.426 AHr

TOTAL POWER REQUIREMENT = 4.746 AHr
WITH 20% SAFETY FACTOR = 5.695 AHr
MINIMUM BATTERY CAPACITY = 7 AHr
USE NOTIFIER BATTERIES (2) BAT-1270-BP

NOTE: PROVIDE BATTERY BOX AS REQUIRED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 06/20/2024

PTN: 63321-405 FILE: 00-0

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DPG
Engineering Inc.

FIRE ALARM SINGLE LINE DIAGRAM AND SCHEDULES

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1318.1
DRAWN: R.L.M.
CHECKED: D.P.G.
DATE: 03/08/23

2.10
OF SHEETS

MANUFACTURED RELOCATABLE MODULAR BUILDINGS
STOCKPILE FOR (59) 24'x40' PORTABLE DSA CLASSROOMS
PC 4-104778

A#-03-123199
FILE # 15-6

W.S.M.M.
RELOCATION PACKAGE -
FROM STOCKPILE TO SITE
SPECIFIC FOR :
BAKERSFIELD CITY S.D.
PENN E.S.
(X4) RIGHT HAND DOOR 2440
UNITS -
SNs: 20168-69 / 20196-97 /
20200-01 / 20236-37

MSI
MODULAR STRUCTURES INTERNATIONAL Inc.
920 CITRUS AVE. RIVERSIDE, CA. 92507
(909) 788-3035

RECEIVED JUL 2 4 2003 WESTERN DIVISION

BUILDING CODES AND STANDARDS

2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2001 CALIFORNIA BUILDING CODE VOLUMES 1, 2 AND 3 (PART 2 TITLE 24, CCR) (1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (1999 EDITION NATIONAL ELECTRICAL CODE WITH 2001 AMENDMENTS)
2001 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2000 EDITION IAMPO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)
2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13, 1999 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
NFPA 14, 2000 EDITION, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
NFPA 24, 1995 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 72, 1999 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

BUILDING DATA

OCCUPANCY:	E-2
TYPE OF CONSTRUCTION:	V-NON RATED
WIND LOAD:	80 M.P.H. EXPOSURE 'C'
FLOOR LIVE LOAD:	50 PSF
ROOF LIVE LOAD:	20 PSF
BUILDING AREA:	24'x40'=960 SQ. FT.
STRUCTURAL DESIGN:	RIGID FRAME WITH CLEAR SPAN TRUSS
MODULES:	12'x40'
SEISMIC ZONE:	4
SEISMIC NEAR SOURCE FACTORS:	Z=0.4, P=1.0, Ca=0.44xNa, Na=1.5 REDUCED TO 1.1 PER TITLE 24 SEC. 1629A.4.2 I=1.0, R=4.5, Cv=0.64xNv, Nv=2.0
ENERGY COMPLIANCE:	CLIMATE ZONE 1 THRU 16

NOTES:
THIS P.C. IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.

THIS P.C. IS NOT APPROVED FOR 'A' OCCUPANCY USES.

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECT. 4-342, PART 1, TITLE 24, CCR.
MIN INSPECTOR CLASS 2.

REVISION SUMMARY LOG

REVISION	DATE	DESCRIPTION OF REVISION	SHEET #
1.	–	–	–

DRAWING INDEX

SHEET NO.	
	ARCHITECTURAL
CS	COVER SHEET, BLDG DATA, SHEET INDEX
G-1	GENERAL NOTES & SPECIFICATIONS
G-2	CONSTRUCTION NOTES, BLDG. MATERIALS, DOOR, WINDOW & FINISH SCHEDULES
~~G-3~~	~~STANDARD ARCHITECTURAL PLUMBING DETAILS~~
G-4	STANDARD ARCHITECTURAL DETAILS
	~~FLOOR PLAN #1~~
~~A-1-24~~	~~24'x40' FLOOR PLAN, DUAL SLOPE EXTERIOR ELEVATIONS & ROOF PLAN~~
~~A-2-24~~	~~24'x40' INTERIOR ELEVATIONS~~
~~A-3-24~~	~~24'x40' REFLECTED CEILING PLAN & DETAILS~~
~~M-1-24~~	~~24'x40' MECHANICAL PLAN~~
~~E-1-24~~	~~24'x40' ELECTRICAL LIGHTING/POWER PLAN & FIRE ALARM~~
	FLOOR PLAN
A-1.1-24	24'x40' FLOOR PLAN, DUAL SLOPE EXTERIOR ELEVATIONS & ROOF PLAN
A-2.1-24	24'x40' INTERIOR ELEVATIONS
A-3.1-24	24'x40' REFLECTED CEILING PLAN & DETAILS
M-1.1-24	24'x40' MECHANICAL PLAN
E-1.1-24	24'x40' ELECTRICAL LIGHTING/POWER PLAN & FIRE ALARM
	STRUCTURAL
~~S-1~~	~~GENERAL NOTES & SPECIFICATIONS~~
S-5	RIGID FRAME SECTIONS & DETAILS, DUAL SLOPE W/ LIGHT GA. SIDEWALL
S-10	FLOOR FRAMING PLAN & DETAILS W/ PLYWOOD FLOOR (80 & 90 MPH WIND)
S-21	EXTERIOR WALL FRAMING ELEVATIONS (STEEL STUDS 80 & 90 MPH WIND)
~~S-25~~	~~STEEL STUD WALL FRAMING DETAILS (80 & 90 MPH WIND)~~
S-30	WOOD STUD WALL FRAMING DETAILS (80 MPH WIND)
S-41	ROOF FRAMING PLAN W/ 22 GA. ROOF (80 & 90 MPH WIND)
S-51	ROOF FRAMING DETAILS W/ 22 GA. ROOF (80 & 90 MPH WIND)
S-60	DUAL SLOPE TRUSS & DETAILS 20 PSF ROOF (80 MPH WIND)
R-1	RAMP FRAMING PLAN & DETAILS (4'-0" WIDE RAMP)
	FOUNDATION SEE PC 04-120373
~~F-1~~	~~WOOD PAD FOUNDATION & DETAILS (50 PSF FLOOR, 20 & 30 PSF ROOF) W/ PLYWOOD FLOOR (80 MPH WIND)~~
~~F-1.1~~	~~WOOD PAD FOUNDATION & DETAILS (50+20 PSF FLOOR, 20 & 30 PSF ROOF) W/ PLYWOOD FLOOR (80 MPH WIND)~~
~~F-2~~	~~CONCRETE FOUNDATION PLAN ABOVE GRADE W/ PLYWOOD FLOOR (80 & 90 MPH WIND)~~
~~F-2.1~~	~~CONCRETE FOUNDATION DETAILS ABOVE GRADE W/ PLYWOOD FLOOR (80 & 90 MPH WIND)~~
~~F-4~~	~~CONCRETE FOUNDATION PLAN FLUSH W/ GRADE W/ PLYWOOD FLOOR (80 & 90 MPH WIND)~~
~~F-4.1~~	~~CONCRETE FOUNDATION DETAILS FLUSH W/ GRADE W/ PLYWOOD FLOOR (80 & 90 MPH WIND)~~

ARCHITECT STAMP
DATE SIGNED JUL 15 2003
LICENSED PROFESSIONAL ENGINEER No. 3602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004
STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP OFFICE OF THE STATE ARCHITECT
AC: A.M. Smith
FLS: [illegible]
SS: S. Ferrer
STATE AGENCY STAMP

STATE AGENCY STAMP

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT: MODULAR CLASSROOM BUILDING
TITLE: COVER SHEET

JOB #	03-1012 03-1014
DATE	7/8/03
DRAWN BY	JAG
SCALE	AS NOTED
APPROVED	
REVISIONS	

SHEET NO.
CS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/20/2024

GENERAL SPECIFICATIONS

SECTION 1A

1. GENERAL

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

C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 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 DISTRICT ARCHITECT.

2. SCOPE OF WORK

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

B. ALL REQUIREMENTS OF TITLE 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (C.C.R.) 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 DISTRICT.

3. ON SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY OF THE BUILDING INSTALLATION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.

4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.

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, FIRE EXTINGUISHER, PROGRAM BELL, CLOCK, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

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 THE BUILDING. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS, ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

6. GENERAL CONSTRUCTION

A. STRUCTURAL FRAME – EACH MODULE SHALL BE DESIGNED AS A MOMENT FRAME STRUCTURE TO WITHSTAND VERTICAL AND HORIZONTAL LOADS AND COMPLY WITH REQUIREMENTS OF THE DIVISION OF THE STATE ARCHITECT. THE NECESSARY PROVISIONS ARE INCORPORATED IN THE STRUCTURE TO PERMIT THE RELOCATION OF THE STRUCTURAL FRAME IN SECTIONS NOT EXCEEDING 12 FEET IN WIDTH.

B. FLOOR – THE FLOOR SHALL BE STEEL FRAMED WITH A DESIGN LIVE LOAD OF 50 lbs. PER SQUARE FOOT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

SECTION 5A STRUCT. AND MISC. STEEL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND AS SPECIFIED AND INDICATED ON THE DRAWINGS, SERVICES REQUIRED FOR STRUCTURAL AND MISCELLANEOUS STEEL.

2. MATERIALS

A. STRUCTURAL STEEL SHAPES– ASTM A-36, OPEN HEARTH OR ELECTRIC FURNACE ONLY, ALL REGULAR SHAPES AS DESCRIBED IN AISC CONSTRUCTION MANUAL, UNLESS OTHERWISE NOTED.

B. COLD FORMED LIGHT GAUGE STEEL– ASTM A-570 GRADE 33, MINIMUM YIELD 33,000 PSI.

C. STRUCTURAL PIPE – ASTM A-53 MIN. YIELD OF 35,000 PSI.
STRUCTURAL TUBING – ASTM A-500 MIN. YIELD OF 46,000 PSI.

D. BOLT MATERIAL– BOLTS AND NUTS, AMERICAN STANDARD REGULAR, AS DETAILED IN AISC CONSTRUCTION MANUAL, FABRICATED FROM STRUCTURAL QUALITY STEEL, ASTM A-307.

E. ARC-WELDING ELECTRODES– CLASS E-70 SERIES FOR WELDING A-36 STEEL TO A-36 AND E-60 SERIES FOR WELDING A-570 STEEL TO A-36, CONFORMING TO REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF AMERICAN WELDING SOCIETY, LATEST EDITION.

F. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINUMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT LBS. AT MINUS 20 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

3. WORKMANSHIP

A. GENERAL – ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS, TITLES 21 AND 24 OF THE CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF LIGHT GAUGE STEEL STRUCTURAL MEMBERS.

B. WELDING– ALL WELDING DONE BY SHIELDING ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT.

C. ERECTION– STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDING AS INDICATED ON THE DRAWINGS.

D. NAILS, BOLTS, SCREWS, NUTS, ETC.– FOR EXTERIOR WORK SHALL BE CADIUM PLATED OR GALVANIZED.

E. HANDRAILS– FABRICATED AS DETAILED, WELDS GROUND SMOOTH.

F. SHOP PAINT–
1. EXPOSED STEEL COATED WITH ONE COAT SHOP COAT.
2. NON-EXPOSED STEEL COATED WITH ONE COAT SHOP COAT
3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOPS COAT.
G. TESTS– PROVIDE MILL CERTIFICATES OR TEST ALL MEMBERS. WELDS SHALL BE INSPECTED AND/OR TESTED PER T-24 SECTION 2231A.5

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 WESTERN LUMBER, 3rd EDITION" OF WESTERN WOOD PRODUCTS ASSOCIATION. PLYWOOD GRADE MARKED IN ACCORDANCE WITH "PRODUCT STANDARD PS 1-95 FOR SOFTWOOD" OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH UBC STANDARD 25-9.

A. HEADERS– HEM FIR STUD GRADE OR BETTER.
B. PLATES– HEM FIR STUD GRADE OR BETTER.
C. BLOCKING– HEM FIR STUD GRADE OR BETTER
D. SILLS AND LUMBER IN CONTACT WITH CONCRETE, MASONRY OR EARTH– HEMLOCK FIR PRESSURE TREATED WITH WOLMAN SALTS, TANALITH U OR CHROMATE COPPER ARSENIC; GRADE– 2x4; NO. 2 GRADE – 2x6, CUT ENDS DIPPED IN PRESERVATIVE (CUPONAL).
E. PLYWOOD ROOF DECKING– APA C-D GRADE, GROUP 1, EXPOSURE 1 WITH EXTERIOR GLUE. ON OVERHANGS, C-C PLUGGED AND TOUCH SANDED.
F. PLYWOOD FLOOR DECKING– APA STURD-I-FLOOR 48" O.C. 1-1/8" TONGUE AND GROOVE FLOOR SHEATHING.
G. EXTERIOR SIDING/SHEATHING– APA TYPE 303, EXTERIOR, M.D.O. 8" O.C., SIDING. SHEATHING 1/2" CDX.
H. STUDS AND POSTS– HEM FIR STUD GRADE.
I. FASTENERS– ALL NAILS SHALL BE CORROSION RESISTANT PER UBC STANDARD 2304A.4.
J. BUILDING TRIM– 1x RESAWN SELECT H.F. OR MASONITE.
K. DOOR/WINDOW TRIM– 1x4 RESAWN H.F.

3. WORKMANSHIP

A. FRAMING– SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED 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 C.C.R.– TABLE 23-II-B-1. NAILS SHALL BE CORROSION RESISTANT BOX NAILS.
C. EXTERIOR WALLS– FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALLS AND STRUCTURAL MEMBERS PROVIDING WEATHERPROOF AND WATERTIGHT SEAL. NECESSARY CLOSURES, SEALS, FLASHING PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
D. MACHINE APPLIED NAILING– SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUES SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". 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. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING.
F. RETIGHTEN ALL BOLTS BEFORE CLOSING IN.
G. THE DESIGN MOISTURE CONTENT OF LUMBER IS 19% OR LESS BEFORE FABRICATION, OTHER REVISION THRU CHANGE ORDER WILL BE REQUIRED.

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 A123. MINIMUM 26 GA.
B. SOLDER– OF STANDARD BRAND, GRADE A OF EQUAL PARTS LEAD AND TIN ASTM B32.
C. FLUX– ZINC SATURATED MURATIC ACID.

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.

SECTION 7J SEALANT

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO SEAL THE BUILDINGS.

2. MATERIALS

"VULKEM" SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL OR APPROVED EQUAL, TO BE USED @ ALL STANDING SEAM ROOFING DETAILS.

SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT, IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

SECTION 8B HOLLOW METAL DOORS & FRAMES

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS & FRAMES.

2. MATERIALS

A. DOORS– TYPE L FULL FLUSH INSULATED, MANUFACTURED BY 'STEELCRAFT' MANUFACTURING COMPANY OR APPROVED EQUAL, 18 GA. 1-3/4" THICK.
B. FRAMES– 16 GA. COLD ROLLED 2" FACES.

SECTION 8D FINISH HARDWARE

1. SCOPE OF WORK

CONTRACTOR SHALL SUPPLY AND INSTALL HARDWARE AS SPECIFIED AND AS REQUIRED.

2. DOOR SCHEDULE– SEE SHEET G-2

3. SPECIAL REQUIREMENTS

A. CLOSURE FOR EXTERIOR DOORS SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 5 LBS.
B. DEADBOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HANDLE.
C. HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FINISHED FLOOR.
D. ALL EXIT DOORS SHALL BE OPEN ABLE FROM INSIDE WITHOUT ANY EFFORT, SPECIAL TOOL, OR KNOWLEDGE.

SECTION 9E PAINTING

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDINGS. ALL EXPOSED SURFACES OF BUILDING AND RAMP SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS.

2. MATERIALS

A. EXTERIOR WOOD– VISTA BRAND 4100 PRIMER, 6000 FINISH. (OR EQUAL)
B. INTERIOR TRIM– VISTA BRAND 7000 FINISH. (OR EQUAL)
C. METAL– VISTA BRAND 7000 FINISH. (OR EQUAL)

3. WORKMANSHIP

A. EXTERIOR– WOOD SIDING, TRIM AND SKIRTING– APPLY TWO COATS OF EXTERIOR FLAT ACRYLIC PAINT SPRAYED ON.
B. INTERIOR TRIM– TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMIGLOSS LATEX OVER PRIMER.
C. METAL– ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER SHOP COAT.
D. RAMP– ONE COAT OF NON-SKID SURFACING.

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.

2. ASSEMBLY OF ELEMENTS

A. IN A LOCATION AS DETERMINED BY THE SCHOOL DISTRICT, THE CONTRACTOR SHALL PLACE CONCRETE 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.
C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS ON THE DRAWINGS. FLASHING, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 15A MECHANICAL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITION SYSTEM AS SHOWN ON THE DRAWINGS 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 A/C INFORMATION SCHEDULE FOR SIZE AND TYPE

3. WORKMANSHIP

UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURERS 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 CBC AND NFPA
A. ELECTRIC METALLIC TUBING– COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
B. PANELBOARDS– FLUSH MOUNTED WITH HINGED DOORS AND INDEXED CARD HOLDERS.
C. CONDUCTORS– COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE– #12.
D. RECEPTACLE– GENERAL ELECTRIC 5242-2 OR EQUAL, +18".
E. CLOCK RECEPTACLE– EAGLE OR EQUAL.
F. SWITCHES– GENERAL ELECTRIC 5901-2 OR EQUAL, +48".
G. 2'x4' FLOURESCENT DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DBL. BALLAST, MAGNETIC ENERGY EFFICIENT (3) 34 WATT T-12 TUBES WEIGHT 27 LBS.

3. WORKMANSHIP

MATERIAL AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS, PANEL BOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION.

NAILING SCHEDULE [1]

JOIST OR RAFTERS TO SIDES OF STUDS 8" JOIST OR LESS (3) 16d: FOR EACH ADDITION 4" IN DEPTH OF JOIST (1) 16d

BRIDGING TO JOIST, TOENAILS EACH END (2) 8d
A. BLOCKING BETWEEN JOIST OR RAFTERS TOENAILS EACH SIDE, EACH END (2) 10d[12]
B. BLOCKING BETWEEN STUDS, EA. END (2) 16d OR (2) 10d TOENAILS

SOLE PLATE TO JOIST OR BLOCKING FACE NAIL 16d AT 16" O/C

TOP PLATE TO STUD, END NAIL (2) 16d

STUD TO SOLE PLATE (4) 8d TOENAILS OR (2) 16d ENDNAIL

DOUBLE STUDS, FACE NAIL 16d AT 24" O/C

DOUBLE TOP PLATES, FACE NAIL 16d AT 16" O/C

DOUBLE TOP PLATES, LAP SPLICE (8) 16d

CONTINUOUS HEADER, TWO PIECES 16d AT 16" O/C ALONG EACH EDGE

CEILING JOIST TO PLATE, TOENAIL (3) 8d

CONTINUOUS HEADER TO STUD, TOENAIL (4) 8d

CEILING JOIST, LAPS OVER PARTITIONS, FACE NAIL (3) 16d

CEILING JOIST TO PARALLEL RAFTERS FACE NAIL (3) 16d

JOIST OR RAFTERS AT ALL BEARINGS, TOENAILS EACH SIDE (2) 10d

1" BRACE TO EA. STUD AND PLATE, FACE NAIL (2) 8d

BUILT UP CORNER STUDS 16d AT 24" O/C

PLYWOOD

SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING:[2]
1/2" OR LESS 6d[3]
19/32" – 3/4" 8d[4] OR 6d[5]
7/8" – 1" 8d[3]
1 1/8" – 1 1/4" 10d[4] OR 8d[5]

COMBINATION SUBFLOOR/UNDERLAYMENT TO FRAMING:
3/4" OR LESS 6d[5]
7/8" – 1" 8d[5]
1 1/8" – 1 1/4" 10d[4] OR 8d[5]

PANEL SIDING TO FRAMING:[2]
1/2" OR LESS 6d[6]
5/8" 8d[6]

FOOTNOTES

[1] COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.

[2] NAILS SPACED AT 6" O/C AT EDGES, 12" O/C AT INTERMEDIATE SUPPORTS EXCEPT 6" O/C AT ALL SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING PLYWOOD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2315A.3.3 & 2315A.4. 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 REQ. OF SECTION 2304A.3.

[7] FASTENERS SPACED 3" O/C AT EXT. EDGES AND 6" O/C AT INTERMEDIATE SUPPORTS.

[8] CORROSION RESISTANT ROOFING NAILS WITH 7/16"ø HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR 25/32" SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304A.3.

[9] CORROSION RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/8" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304A.3.

[10] PANEL SUPPORTS AT 16". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.

[11] PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.

[12] WHEN POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL BE USED INSTEAD OF TOENAILS.

A. MATERIALS AND WORKMANSHIP:

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.

WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT.

THE CONTRACTOR 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.

B. GENERAL DESIGN REQUIREMENTS:

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH A METAL IDENTIFICATION TAG 3" x 1 1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

A. D.S.A. APPROVAL NUMBER
B. DESIGN WIND LOAD
C. DESIGN ROOF LIVE LOAD
D. DESIGN FLOOR LIVE LOAD
E. BUILDER'S NAME
F. PLANT INSPECTOR/ID MARK

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION 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'-0" WIDE 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.

C. FRAMING: ROOF, WALLS AND FLOOR:

FRAMING MEMBERS SHALL BE OF THE GRADE AND SIZE CALLED FOR ON THE STRUCTURAL PLANS.

D. MOISTURE BARRIER:

ALL WEATHER-EXPOSED SURFACES SHALL HAVE A WEATHER-RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING. SUCH BARRIER SHALL BE EQUAL TO THAT PROVIDED FOR IN THE U.B.C. STANDARD NO. 14.1 FOR KRAFT WATERPROOF 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.

E. ZBAR:

ALL HORIZONTAL JOINTS IN SIDING SHALL BE PROTECTED BY GALVANIZED "Z BAR– 3/4 x 5/8 x 3/4" FLASHING.

FLASHING NEED NOT BE USED WHERE SKIRTING MEETS THE UNDERSIDE OF AN EXPOSED METAL FRAME AND THE SKIRTING IS RECESSED SUFFICIENTLY TO PROTECT THE TOP EDGE OF PLYWOOD.

F. ROOF OVERHANG:

ALL OVERHANGS SHALL PRESENT A PLEASING AND FINISHED APPEARANCE. SOFFIT MATERIAL, WHEN USED, SHALL BE 3/8" MIN. EXTERIOR SIDING. PLYWOOD SOFFIT MATERIAL SHALL BE APPLIED WITH EXPOSED GRAIN 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 C.B.C.

G. ENTRY LANDING AND RAMP:

EACH MODULE SHALL HAVE A LANDING(s) AND RAMP(s) TO CONFORM TO TITLE 24, C.C.R. SECTION 1007. THE LANDING(s) AND RAMP(s) STRUCTURE INCLUDING HANDRAIL AND WHEEL GUIDES. PREFABRICATED METAL LANDINGS AND RAMPS SHALL BE BUILT 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 OR THE RAMP SURFACE. DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE.

RAMP SHALL HAVE SKID RESISTANT METAL OR WOOD SURFACE.

H. ELECTRICAL MATERIALS:

ALL ELECTRICAL WIRING 110V AND GREATER SHALL BE IN CONDUIT SYSTEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF C.E.C. MINIMUM SIZE CONDUIT IS 1/2" MIN.

ACCEPTABLE CONDUIT:
RIGID ELECTRICAL METALLIC TUBING (EMT); GALVANIZED THIN WALL
FLEXIBLE (INTERIOR); GALVANIZED STEEL
FLEXIBLE (EXTERIOR); GALVANIZED STEEL WITH FACTORY APPLIED PVC

ALL CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND SHALL BE SECURED IN CONFORMANCE WITH C.E.C. FIELD BENDS SHALL BE AVOIDED WHEREVER POSSIBLE. WHERE BENDS MUST BE MADE, USE AN APPROPRIATE "HICKEY" OR BENDING MACHINE. REAM AND DEBUR ALL CONDUIT PRIOR TO INSTALLATION AND TERMINATE IN APPROPRIATE BUSHINGS OR CONNECTORS, JACKET. WIRING SHALL BE #14 MIN. COPPER TYPE TW, THW, THWN AS APPLICABLE. CONDUIT FILL SHALL NOT EXCEED REQUIREMENTS OF C.E.C. A SEPARATE GROUNDING CONDUCTOR SHALL BE PULLED THROUGHOUT THE ENTIRE SYSTEM. CARE SHALL BE TAKEN TO AVOID DAMAGE TO WIRE OR INSULATION DURING PULLING. POWDERED SOAPSTONE OR A PULLING COMPOUND SUCH AS "YELLOW 77" LUBRICANT MAY BE USED IF NECESSARY.

GENERAL NOTES:

A. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF CALIFORNIA BUILDING CODE; TITLE 24, PART 2,3,4,5,9 AND TITLE 24, PART 1, GROUP 1. A COPY OF THESE REGULATIONS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.

B. PLANS AND SPECIFICATIONS: CHANGES IN PLANS AND SPECIFICATIONS SHALL BE MADE BY THE ADDENDUM OR CHANGE ORDER, SIGNED BY THE ARCHITECT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE ANY RELATED WORK CAN BEGIN. CHANGE ORDERS SHALL ALSO BE SIGNED BY THE OWNER PRIOR TO APPROVAL BY DSA.

C. TESTING: TESTS OF MATERIALS SHALL BE BY A PERSON OR TESTING LABORATORY SELECTED BY THE OWNER WITH THE APPROVAL OF DSA AND ARCHITECT. THE OWNER SHALL BE RESPONSIBLE FOR THE COST OF TESTING, EXCEPT FOR THE RETESTING REQUIRED BY THE FAILURE OF ANY MATERIAL TO PASS.

D. ERECTION AT THE SITE: THE BUILDING SHALL BE TRANSPORTED, ERECTED AND SET ON FOUNDATION AS REQUIRED BY A LICENSED TRANSPORTER. ALL REQUIRED FINISH WORK SHALL BE COMPLETED BY SKILLED LABOR OF THE MANUFACTURER/CONTRACTOR, BUT WILL NOT INCLUDE UTILITIES SERVICE CONNECTION.

E. SITE WORK: THE OWNER, UNLESS OTHERWISE SHOWN ON THE APPROVED PLANS, WILL PROVIDE SITE(s) SATISFACTORY TO THE ARCHITECT OR ENGINEER FOR THE INSTALLATION OF THE RELOCATABLE BUILDING(s) THAT ARE LEVEL AND HAVE STABLE SOIL CONDITIONS WITH ADEQUATE SITE DRAINAGE, EXCEPT IF DESIGNATED IN THE CONTRACT DOCUMENTS AS THE RESPONSIBILITY OF THE MANUFACTURER/CONTRACTOR. IF ADDITIONAL GRADING AND/OR LEVELING IS NECESSARY FOR PROPER INSTALLATION OF MODULAR UNITS, THE ADDITIONAL CHARGE WILL BE THE RESPONSIBILITY OF THE OWNER.

F. UTILITIES: THE OWNER WILL BE RESPONSIBLE FOR ANY AND ALL UTILITY, FIRE ALARM OR SPECIAL ELECTRICAL SIGNAL SYSTEM CONNECTIONS EXCEPT IF DESIGNATED IN THE CONTRACT DOCUMENTS AS THE RESPONSIBILITY OF THE MANUFACTURER/CONTRACTOR.

G. FIRE EXTINGUISHER: UL2A-10BC, PRESSURE TYPE, MAX. 48" TO EXTINGUISHER HANDLE – SEE SPECIFICATION SHEET.

H. BUILDING INSULATION:
SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL. FLAME SPREAD –MAX. 25, SMOKE DEVELOP –MAX. 450 CBC SEC. 1510. SEE SPECIFICATION SHEET.

I. T-GRID CEILING:
SUSPENDED T-BAR SYSTEM WITH LAY-IN PANELS
FLAME SPREAD – MAX. 0-25, SMOKE DEVELOP – MAX. 450
SEE SPECIFICATION SHEET.

J. FIRE ALARM SYSTEM: – SEE SPECIFICATION SHEET
1. "THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE SECTION 305.9, AND CALIFORNIA ELECTRIC CODE ARTICLE 760, CALIFORNIA FIRE CODE, ARTICLE 10."
2. INSTALLATION OF THE FIRE PROTECTIVE SIGNALING SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBER FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
4. ALARMS– SECTION 1006.2.4, CALIFORNIA FIRE CODE.
IF EMERGENCY WARNING SYSTEMS ARE REQUIRED, THEY SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.
(A) LOCATE PER CFC 1006.2.4

K. GROUNDING OF BUILDING COMPONENTS
1. THE OWNER, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMANTS, SHALL RESPONSIBLE FOR PROVIDING THE NECESSARY GROUNDING OF THE BUILDING ELECTRICAL SYSTEM PER CEC 250-50, 250-52 AND 250-56.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY GROUNDING OF THE METAL PORTION BUILDING COMPONENTS (METAL FRAMED STEEL RAMP, ETC.) TO MEET THE REQUIREMENTS OF IR NO 16-1, ISSUED BY D.S.A.
3. THE PROJECT INSPECTOR SHALL WITNESS AND VERIFY THE GROUNDING TESTS.

L. MECHANICAL
1. FACTORY-MADE AIR DUCTS. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. STANDARD NO. 10-1. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDNETIFICATION INDICATING COMPLIANCE WITH C.M.C STANDARD NO. 10-1 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING.
2. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED.
3. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME-SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE-DEVELOPMENT RATING OF NOT MORE THAN 50.
4. AIR FILTERS. AIR FILTERS SHALL BE LISTED UNITS PER U.F.C. STANDARD NO. 9-6. AIR FILTERS SHALL COMPLY WITH ALL REQUIREMENTS OF STATE STANDARD NO. 12-71-1.
5. PIPE AND TUBING. INSULATION AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD-RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH CBC SECTION 707.2

JOHNS MANVILLE BUILT-UP ROOFING
REGION 1, REGION 2 + REGION 3

A#-03-123199
FILE # 15-6

RECEIVED
JUL 2 4 2003
WESTERN DIVISION

DATE SIGNED
JUL 15 2003

No. 3502
LICENSE EXPIRES 6-30-2004

ARCHITECT STAMP

DATE SIGNED
MAY 21 2003

LICENSE EXPIRES 6-30-2004

STRUCTURAL ENGINEER STAMP

~~IDENTIFICATION STAMP~~
~~DIV. OF THE STATE ARCHITECT~~
~~OFFICE OF REGULATION SERVICES~~
~~04 105453~~
~~AC~~
~~DATE JUL 17 2003~~

STATE AGENCY STAMP

PC
~~IDENTIFICATION STAMP~~
~~DIV. OF THE STATE ARCHITECT~~
~~OFFICE OF REGULATION SERVICES~~
~~4-104778~~
~~AC FLS SS KB~~
~~DATE: 5-30-03~~

STATE AGENCY STAMP

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA. 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

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PROJECT
MODULAR CLASSROOM BUILDING

TITLE
GENERAL NOTES & SPECIFICATIONS

JOB #
DATE 12-1-02
DRAWN BY RDL
SCALE AS NOTED
APPROVED
REVISIONS

SHEET NO.
G-1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
REVIEWED FOR
SS [X] FLS [X] ACS [X]
DATE: 06/20/2024

A#-03-123199
FILE # 15-6

CONSTRUCTION NOTES & MATERIALS:

CHASSIS CONSTRUCTION: CHECK ONE

BOX SIZE: 12'x40'
FRAME: PERIMETER
MAIN RAIL/SIZE: 7"x9.8# C-CHANNEL @ PLYWOOD FLOOR [X] OR
10"x15.3# C-CHANNEL @ CONCRETE FLOOR [ ]
No. OF AXLES: –
REFERENCE DETAIL SHEET: –
MISC: –

FLOOR FRAMING: CHECK ONE

FLOOR LOAD: 50 PSF [X] 50+20 PSF [ ] 100 PSF [ ] 125 PSF [ ]
JOIST SIZE & GRADE: 7"x11 GA. Z-MEMBER @ PLYWOOD FLOOR [ ] OR
6"x8.2 C-CHANNEL @ CONCRETE FLOOR [ ]
JOIST SPACING: SEE CHART ON FLOOR FRAMING PLAN 48" O.C.
INSULATION: R-11 UNFACED [X] OR R-19 UNFACED [ ]
BOTTOM ENCLOSURE: CANVEX CW-600
FLOOR DECK: PLYWOOD DECKING [X] OR LIGHTWEIGHT CONCRETE [ ]
REFERENCE DETAIL SHEET: –
MISC.: –

EXTERIOR WALLS WOOD STUD OPTION: CHECK ONE [ ] USED [X] NOT USED

WIND LOAD: 80 MPH EXP. C [ ] OR 90 MPH EXP. C [ ]
STUD SIZE & GRADE: 2"x4" H.F. #2 [ ] OR 2"x6" H.F. #2 [ ]
SPACING: 16" O.C.
SIDE WALL HEIGHT: 9'-0"
INSULATION: R-13 UNFACED [ ] OR R-19 UNFACED [ ]
FIRE RESISTIVE CONSTRUCTION: –
REFERENCE DETAIL SHEET: –
MISC.: –

EXTERIOR WALLS STEEL STUD OPTION: CHECK ONE [X] USED [ ] NOT USED

WIND LOAD: 80 MPH EXP. C [X] OR 90 MPH EXP. C [ ]
STUD SIZE & GRADE: 3 1/2" x 20 GAUGE [X] OR 5 1/2" x 20 GAUGE [ ]
SPACING: 16" O.C.
SIDE WALL HEIGHT: 9'-0"
INSULATION: R-13 UNFACED [X] OR R-19 UNFACED [ ]
FIRE RESISTIVE CONSTRUCTION: –
REFERENCE DETAIL SHEET: –
MISC.: –

EXTERIOR WALL SIDING: CHECK ONE

5/8" THK. DURATEMP APA RATED GROOVED @ 8" O.C. [X]
1/2" CDX PLYWOOD W/ STUCCO ON-SITE [ ]
REFERENCE DETAIL SHEET: FOR STUCCO SIDING SEE DETAILS #16 & #17 SHEET G-4
MISC.: I.C.B.O.# FOR DURATEMP SIDING (ER-4856)

INTERIOR WALLS: CHECK ONE

STUD SIZE & GRADE: 2"x4" H.F. #2 [X] OR 3 1/2"x20 GAUGE STEEL STUDS [ ]
STUD SPACING: 16" O.C.
PARTITION HEIGHT: TO RAFTERS [ ] OR BELOW RAFTERS [ ]
INSULATION: YES [ ] OR NO [ ]
FIRE RESISTIVE CONSTRUCTION: –
REFERENCE DETAIL SHEET: –
MISC.: –

ROOF DETAILS:

TYPE OF DRAIN SYSTEM: 26 GA. GUTTERS AND DOWN SPOUTS
REFERENCE DETAIL SHEET: –
MISC.:

ROOF FRAMING: CHECK ONE

ROOF LOAD: 20 PSF [X] OR 30 PSF [ ]
RAFTER SIZE/GRADE: 6"x2"x14 GA. Z-MEMBER [X] OR 7"x1 1/2"x11 GA. Z-MEMBER [ ]
RAFTER SPACING: 48" O.C.
INSULATION: R-19 UNFACED [X] OR R-30 UNFACED
FINISH ROOFING: 22 GAUGE GALV. STANDING SEAM ROOF [X]
26 GAUGE GALV. STANDING SEAM ROOF [ ]
BUILT-UP 3-PLY ROOFING [ ] EPDM W/ 1/4" DENSDECK UNDERLAYMENT [ ]
ROOF SHEATHING: 3/4" C-D PLYWOOD @ NON 22 GAUGE ROOFING
ROOF SLOPE: 1/4" PER 12" DOUBLE SLOPE
REFERENCE DETAIL SHEETS: –
DRAFT STOP CONSTRUCTION: –
ROOF MOUNT HVAC: CHECK ONE [ ] YES [X] NO
MISC:

STEEL COLUMNS: CHECK ONE

CORNER COLUMNS: 3 1/2"x3 1/2"x1/4" [X] OR 4"x4"x1/4" [ ]
MIDSPAN COLUMN @ SIDEWALL: N.A.
STEEL POST HEIGHT: 9'-0"
REFERENCE DETAIL SHEET:
MISC: (NOTE: THE STEEL POST HEIGHT IS FROM TOP OF FLOOR TO BTM. OF SIDEWALL BEAM/HEADER.)

TRUSS TYPE 20 PSF ROOF LOAD: [X] YES OR [ ] NO

SIDEWALL BEAM TYPE: 18/23/18x3 1/2"x10 GA. CHANNEL @ DOUBLE SLOPE OR
~~18/28x3 1/2"x10 GA. CHANNEL @ SINGLE SLOPE~~
ENDWALL HEADER: 18 x 3 1/2" x 12 GA. CHANNEL @ DOUBLE SLOPE AND
~~18 x 28" x 3 1/2" x 12 GA. CHANNEL @ HIGH SIDE OF SINGLE SLOPE~~
TRUSS CONFIGURATION @ MODLINE: DOUBLE SLOPE [X] OR SINGLE SLOPE [ ]
TOP CHORD: L 3"x3"x3/8"
BOTTOM CHORD: L 3"x3"x3/8"
WEBS: L 2"x2"x3/16" @ 1ST TWO BAYS, L 1 1/2"x1 1/2"x3/16" @ ALL OTHERS
OVERHANGS: 5'-0" @ FRONT & 2'-0" @ REAR
OVERHANG MATERIAL: L 4"x3"x3/8" [X] OR 10"x3"x12 GAUGE C-CHANNEL [ ]
SOFFITS: OPEN SOFFITS [X] OR CLOSED SOFFITS [ ]
REFERENCE DETAIL SHEET:
MISC:

TRUSS TYPE 30 PSF ROOF LOAD: [ ] YES OR [X] NO

TRUSS CONFIGURATION: DOUBLE SLOPE [ ] OR SINGLE SLOPE [ ]
SIDEWALL BEAM TYPE: 18/23/18x3 1/2"x10 GA. CHANNEL @ DOUBLE SLOPE OR
18/28x3 1/2"x10 GA. CHANNEL @ SINGLE SLOPE
ENDWALL HEADER: 18"x3 1/2"x12 GA. CHANNEL @ DOUBLE SLOPE AND
18"x28"x3 1/2"x12 GA. CHANNEL @ HIGH SIDE OF SINGLE SLOPE
TRUSS TOP CHORD: L 4"x3"x3/8"
TRUSS BOTTOM CHORD: L 4"x3"x3/8"
TRUSS WEBS: L 2"x2"x3/16" @ 1ST TWO BAYS, L 1 1/2"x1 1/2"x3/16" @ ALL OTHERS
OVERHANGS: 5'-0" @ FRONT & 2'-0" @ REAR
OVERHANG MATERIAL: L 5"x3"x3/8" [ ] OR 10"x3"x12 GAUGE C-CHANNEL [ ]
SOFFITS: OPEN SOFFITS [ ] OR CLOSED SOFFITS [ ]
REFERENCE DETAIL SHEET:
MISC:

SITE CONDITIONS: CHECK ONE

FOUNDATION TYPE: WOOD PAD [X] OR CONCRETE [ ]
FLASHING REQUIRED: CONCRETE FLUSH W/ GRADE [ ] OR CONCRETE ABOVE W/ GRADE [ ]
RAMP & LANDING: SEE FLOOR PLAN FOR RAMP AND LANDING
SKIRTING REQUIRED: YES [X] OR NO [ ] ROUGH SAWN T-1-11 UNGROOVED
FIXTURE MOUNTING HEIGHTS: ADULT HEIGHT [ ] ELEMENTARY [ ] KIDDIE [ ]
MISC.:

ON-SITE SCOPE OF WORK:

1. ALL UNDER FLOOR PLUMBING FURINISHED AND INSTALLED ON-SITE.
2.
3.
4.
5.

VARIABLE MATERIAL SPECIFICATIONS:

ROOFING:
FIRE RATED PER UBC STANDARD 15-2 CLASS 'A'
BASE SHEET FINISHED GRADE 25-30# ASPHALT COATED

MULE-HIDE EPDM MEMBRANE ROOFING SYSTEM:
(ETHYLENE-PROPYLENE-DIENE TERPOLYMER MEMBRANE)
ADHESIVELY OR MECHANICALLY ATTACHED OVER INSULATED, COMBUSTIBLE OR NON-COMBUSTIBLE DECKS. CLASS 'A'. THE EPDM MEMBRANES ARE SYNTHETIC RUBBER SINGLE-PLY SHEETS HAVING A MIN. NOMINAL THICKNESS OF 45 MILS (1.1 MM). INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS. (I.C.B.O.# ER-5867)
1/4" DENS-DECK ROOF BOARD:
USED AS A UNDERLAYMENT FOR THE EPDM MEMBRANE ROOFING SYSTEM. FLAME SPREAD: 0, SMOKE DEVELOPED: 0 PER, ASTM E 84. INSTALL PER ROOFING MANUFACTURER INSTALLATION INSTRUCTIONS.

WINDOWS:
HORIZONTAL SLIDING , 50% VENTING, ANODIZED ALUMINUM FRAME. PERFORMANCE RATED PER AAMA GS101-88 FOR COMMERCIAL USE AND MEDIUM EXPOSURE, NAIL-ON FIN FASTENED DIRECTLY TO FRAMING AND BEHIND SIDING MATERIAL, REMOVABLE SCREEN AT VENT SASHES. LAMINATED OR TEMPERED GLAZING TO BE NOTED ON FLOOR PLAN. DUAL GLAZED WINDOWS TO HAVE MINIMUM 1/4" AIR SPACE AND 1/8" GLASS (SEE WINDOW SCHEDULE FOR SIZES)

INTERIOR WALL COVERINGS:
APPLIED OVER MINIMUM 1/2" GYPSUM BOARD, OR MINIMUM 3/8" (*)ORIENTED STRAND BOARD. EXPOSED SURFACES FIRE RATED PER ASTM E-84, FLAME SPREAD MAXIMUM 200, SMOKE DEVELOPED MAXIMUM 450. (*PROVIDE FIRE BLOCKING WHEN 3/8" OSB IS USED AS BACKING MATERIAL)
TACKBOARD: VINYL WALL COVERING TO BE CLASS I DOMTAR GYPSUM OR EQUAL, LAMINATED ONTO 1/2" INDUSTRIAL INSULATION BOARD, 4'-0"x9'-0", LONG EDGES BEVELED.
FLAME SPREAD = 65
SMOKE DENSITY = 175

FRP: FIBERGLASS REINFORCED PLASTIC PANELS, 4'-0"x8'-0", WITH COLOR MATCHED PVC MOLDINGS OVER 1/2 GYPSUM FLAME SPREAD AND SMOKE DEVELOPMENT, CLASS C PER ASTM-E84
SMOKE DENSITY NOT TO EXCEED 450. FLAME SPREAD NOT TO EXCEED 200
CEILING TYPE:
SUSPENDED SYSTEM, PERFORMANCE RATED ASTM C635 HEAVY DUTY
ACOUSTIC LAY-IN CEILING PANELS:
LIGHT REFLECTIVE LR-1, FIRE RATED CLASS-A PER ASTM E84.
VINYL FACED FIBERGLASS, 5/8" THICK, ARMSTRONG OR EQUIV.
CLASS A: FLAME SPREAD 25 (UL LABELED) PER ASTM E 1264
SMOKE DENSITY NOT TO EXCEED 450.
CARPET:
DIRECT GLUE-DOWN, PERFORMANCE RATED PER STATE OF CALIFORNIA SPECIFICATION 7220-21L-01. (GROUP I, TYPE A, CLASS 24) 4600 MIN. DENSITY. THE CARPET IS TO HAVE A MINIMUM CRITICAL FLUX OF .25 WATT/CM .

VINYL SHEET FLOORING:
MINIMUM WEAR LAYER .050" THICK, PERFORMANCE RATED PER ASTM F1303-90 TYPE-II, GRADE-1, CLASS-A, AND ASTM F970 125PSI, FIRE RATED PER ASTM E648 FLAMMABILITY CLASS-I, AND ASTM E662 SMOKE DENSITY MAX. 450. MIN. COEFFICIENT OF FRICTION TO BE 0.5 PER ASTM D2047

VINYL COMPOSITION TILE:
12" SQUARE, MINIMUM 1/8" THICK, PERFORMANCE RATED PER ASTM F1066, COMP-1, CLASS-2, AND ASTM F970 75PSI, FIRE RATED PER ASTM E648 FLAMMABILITY CLASS-1, AND ASTM E662 SMOKE DENSITY MAX. 450. MIN. COEFFICIENT OF FRICTION TO BE 0.5 PER ASTM D2047

TOP SET BASE:
BURKE MOLDED RUBBER 1/8" THICK, 4" HEIGHT, COVE STYLE #502-P, OR EQUIV.

MARKER BOARDS:
1/2" PARTICLE BOARD SUBSTRATE, FULL WIDTH MAP RAIL W/ CORK INSERT AND SIX MAP HOOKS, EXTRUDED ALUMINUM MOLDING WITH FLAG HOLDER.

NOTE:
ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 7 & 8. CFC AND TITLE 19 CCR

INTERIOR FINISH SCHEDULE

ROOM	FLOOR				BASE				WALLS			CEILING		
		(BY OTHERS)	SHEET VINYL			(BY OTHERS)	6" SELF COVE			1/2" VINYL WRAP TACK. BD. OVER 1/2" GYP BD.	F.R.P. OVER 1/2" M.R. GYP. BD.		ACOUSTICAL TILE IN HEAVY DUTY GRID @ 8'-6"	ACOUSTICAL TILE IN HEAVY DUTY GRID @ 8'-0"
CLASSROOMS		●				●				●			●	
~~RESTROOMS~~			●				●				●			●

NOTE:
FINISH WALL COVERING & FINISH CEILING SHALL BE FLAME SPREAD CLASS 1

WINDOW SCHEDULE

⬡	ROUGH OPENING WIDTH x HEIGHT		WINDOW SIZE	TYPE	FRAME	SCREEN	GLAZING	MANUFACTURE/SERIES/DESCRIPTION
A	VERIFY	VERIFY	8'-0"x4'-0"	XOX	CLEAR ANODIZED ALUM. FRAME	YES	46% GREY TINT	DUAL GLAZE, HORIZONTAL SLIDER, ALUMINUM FRAMED SCREENS
B								
C								

DOOR SCHEDULE

SYM.	WIDTH	HEIGHT	THK.	TYPE	FIRE RATING	FRAME	GLAZING	REMARKS
1	3'-0"	6'-8"	1 3/4"	HOLLOW METAL		16 GA. METAL		18 GA. HOLLOW METAL DOOR
~~2~~	~~3'-0"~~	~~6'-8"~~	~~1 3/4"~~	~~SOLID CORE~~		~~TIMELY~~		~~PREFINISHED INTERIOR LEGACY DOOR & FRAME~~
3								
4								

HARDWARE GROUP 1

QTY.	DESCRIPTION	PART NO.
3	HINGES	HAGAR BB1191 4.5"x4.5" NRP
1	LOCKSET, LEVER HANDLE	SCHLAGE D75PD RHODES, 26D FINISH
1	CLOSER, 5 LBS CLOSING PRESSURE	NORTON 1601
1	THRESHOLD	PEMCO 271A
1	DOOR BOTTOM	PEMCO 216AV
1	WEATHERSTRIP	PEMCO 279PAV
1	DOOR STOP	QUALITY 431

HARDWARE GROUP 2

QTY.	DESCRIPTION	PART NO.
3	HINGES	HAGAR RC1749 4.0"x4.0" L2
1	PRIVACY LEVER	SCHLAGE D40S RHODES, 26D FINISH

HARDWARE GROUP 3

QTY.	DESCRIPTION	PART NO.
3	HINGES	HAGAR BB1191 4.5"x4.5" NRP
1	PANIC HARDWARE	VON DUPRIN SERIES 22 EXIT DEVICE
1	CLOSER, 5 LBS CLOSING PRESSURE	NORTON 1601
1	THRESHOLD	PEMCO 271A
1	DOOR BOTTOM	PEMCO 216AV
1	WEATHERSTRIP	PEMCO 279PAV
1	DOOR STOP	QUALITY 431
1	EXTERIOR TRIM, LEVER HANDLE	VON DUPRIN 230L

HARDWARE GROUP 4

QTY.	DESCRIPTION	PART NO.
3	HINGES	HAGAR RC1749 4.0"x4.0" L2
1	PASSAGE LEVER	SCHLAGE D10S RHODES, 26D FINISH

NOTE:
PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER, CBC 1007.3.10

DATE SIGNED
JUL 15 2003

DATE SIGNED
MAY 2 2003

ARCHITECT STAMP

LICENSE EXPIRES 6-30-2004
STRUCTURAL ENGINEER STAMP

RECEIVED
JUL 24 2003
WESTERN DIVISION

STATE AGENCY STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-104778
DATE: 5-30-03
STATE AGENCY STAMP

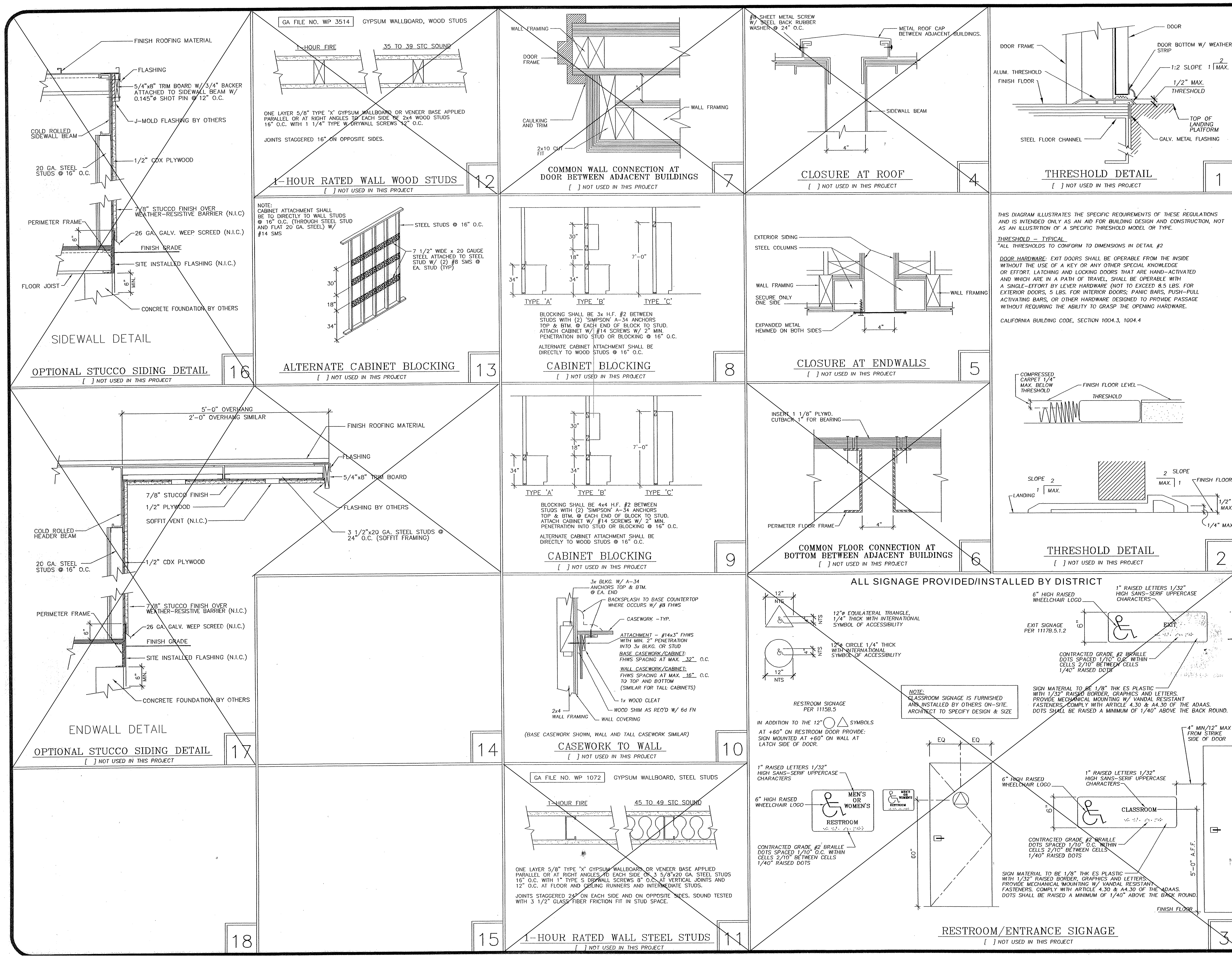
MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA. 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT: MODULAR CLASSROOM BUILDING
TITLE: BUILDING SPECIFICATIONS, CONSTRUCTION NOTES & SCHEDULES

JOB #
DATE 12-1-02
DRAWN BY R.D.L.
SCALE AS NOTED
APPROVED
REVISIONS

SHEET NO.
G-2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/20/2024



A#-03-123199
FILE # 15-6

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DATE SIGNED JUL 15 2003

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DATE SIGNED MAY 21 2003

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MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA, 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

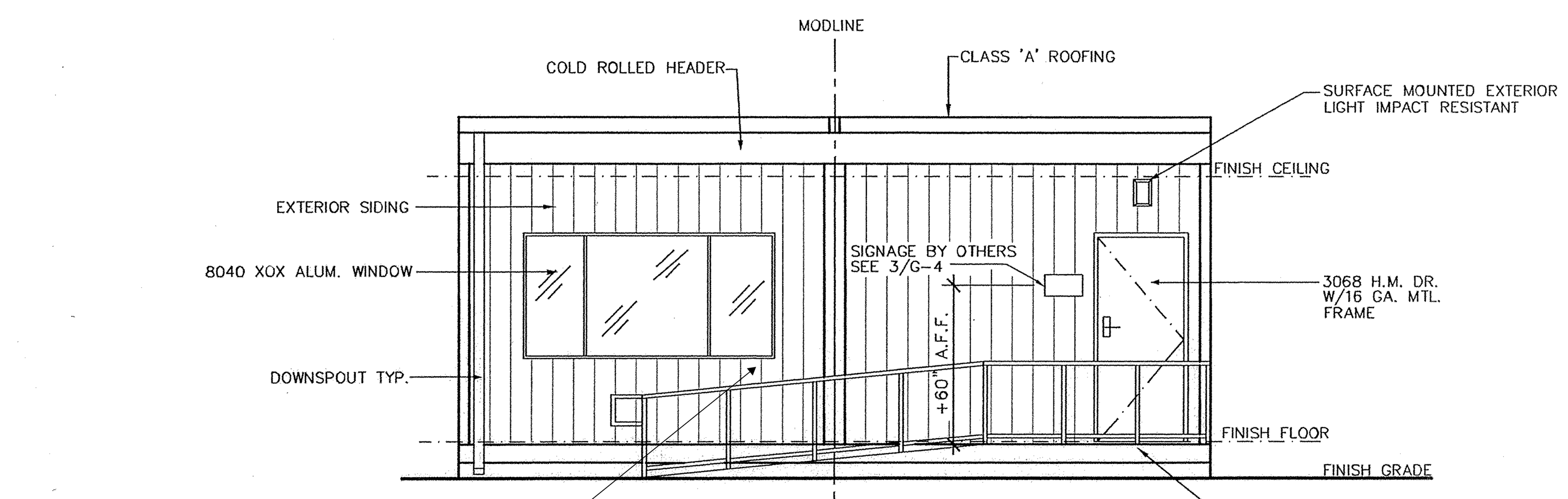
PROJECT
MODULAR CLASSROOM BUILDING

TITLE
STANDARD ARCHITECTURAL DETAILS

JOB #	
DATE	12-1-02
DRAWN BY	RDL
SCALE	AS NOTED
APPROVED	
REVISIONS	

SHEET NO.
G-4

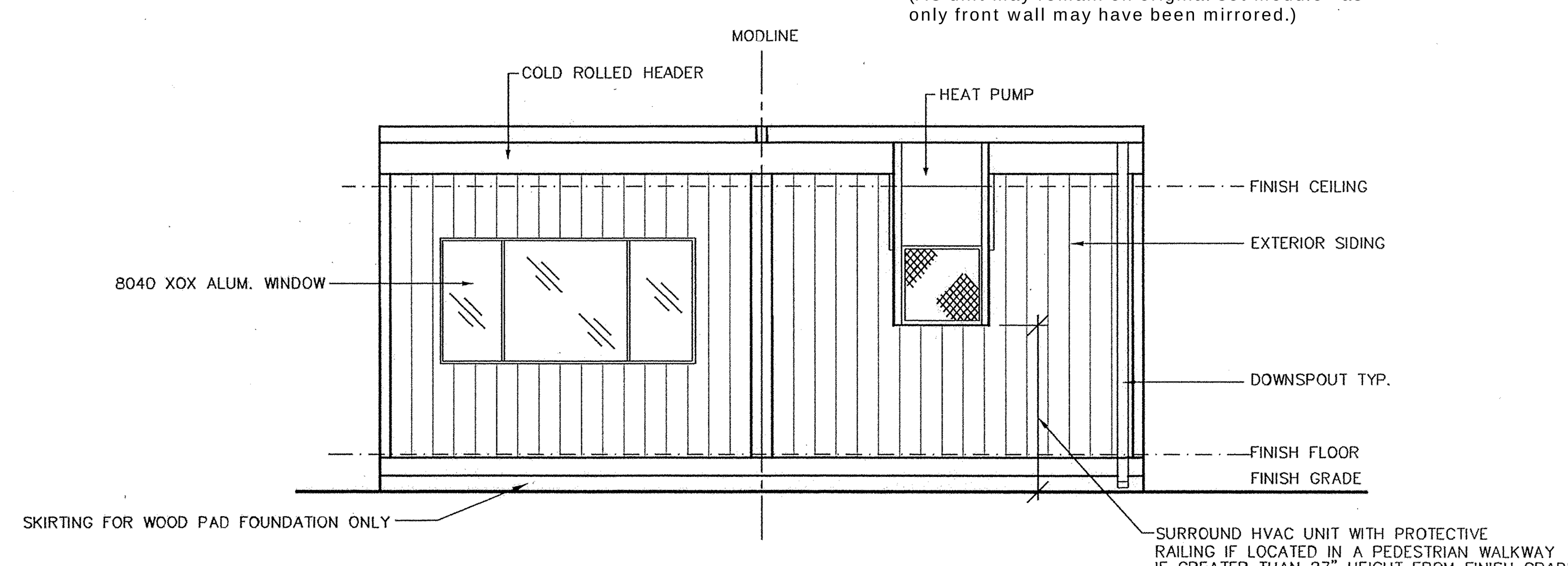
A#-03-123199
FILE # 15-6



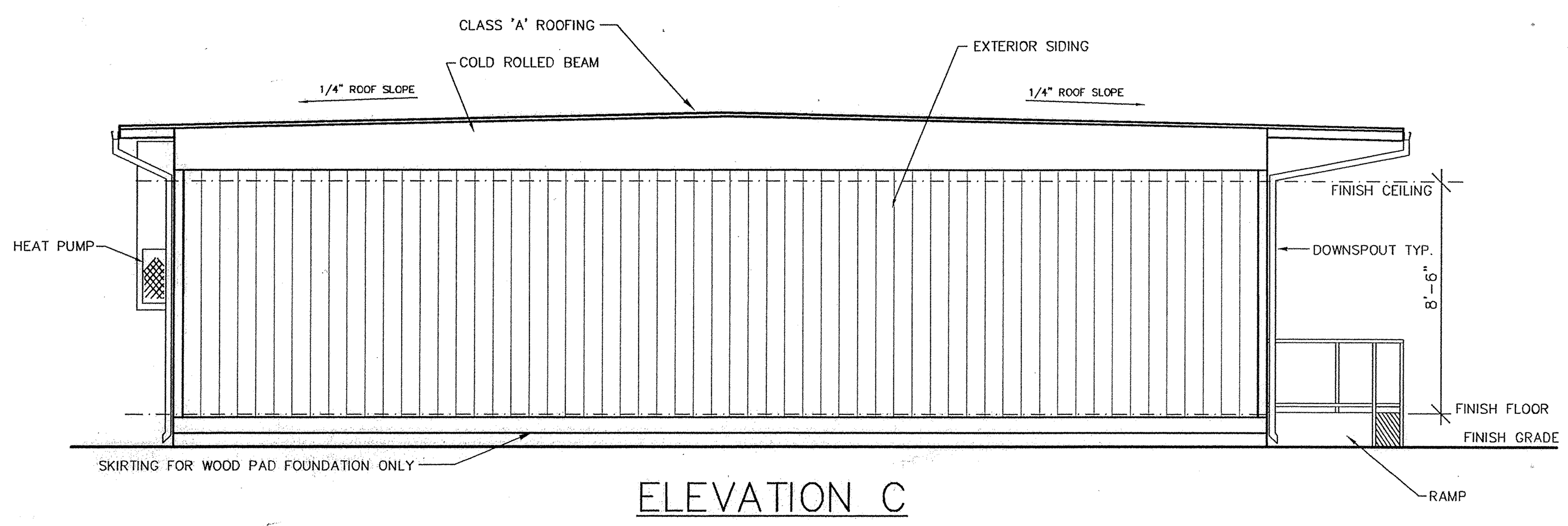
ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 8" ABOVE HANDRAIL

ELEVATION A

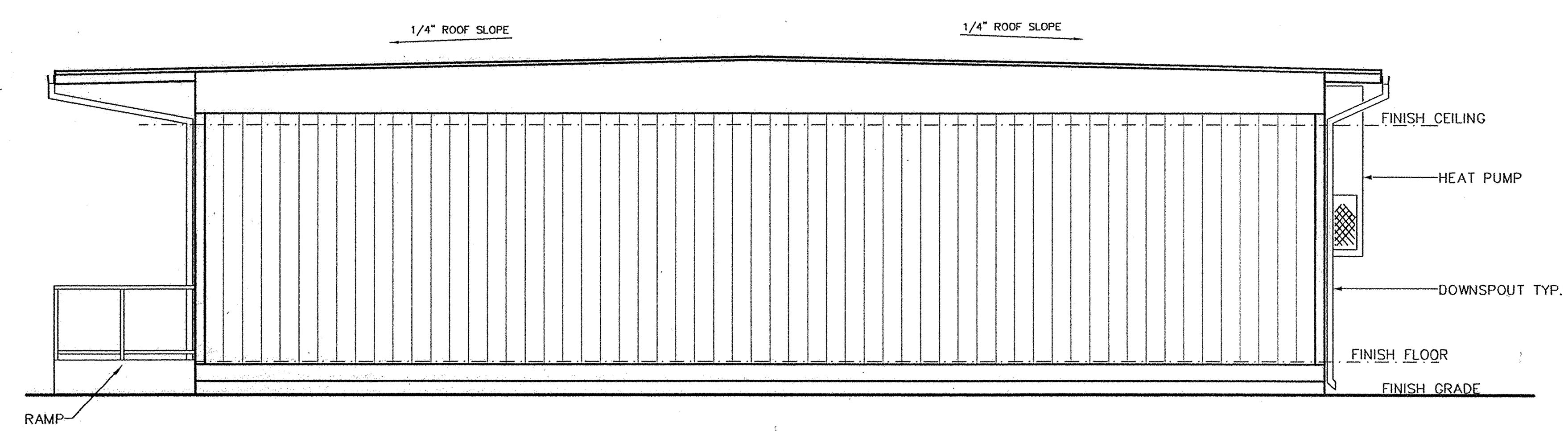
A - AS SHOWN
B - MIRRORED (OPPOSITE)
(AC unit may remain on original set module - as only front wall may have been mirrored.)



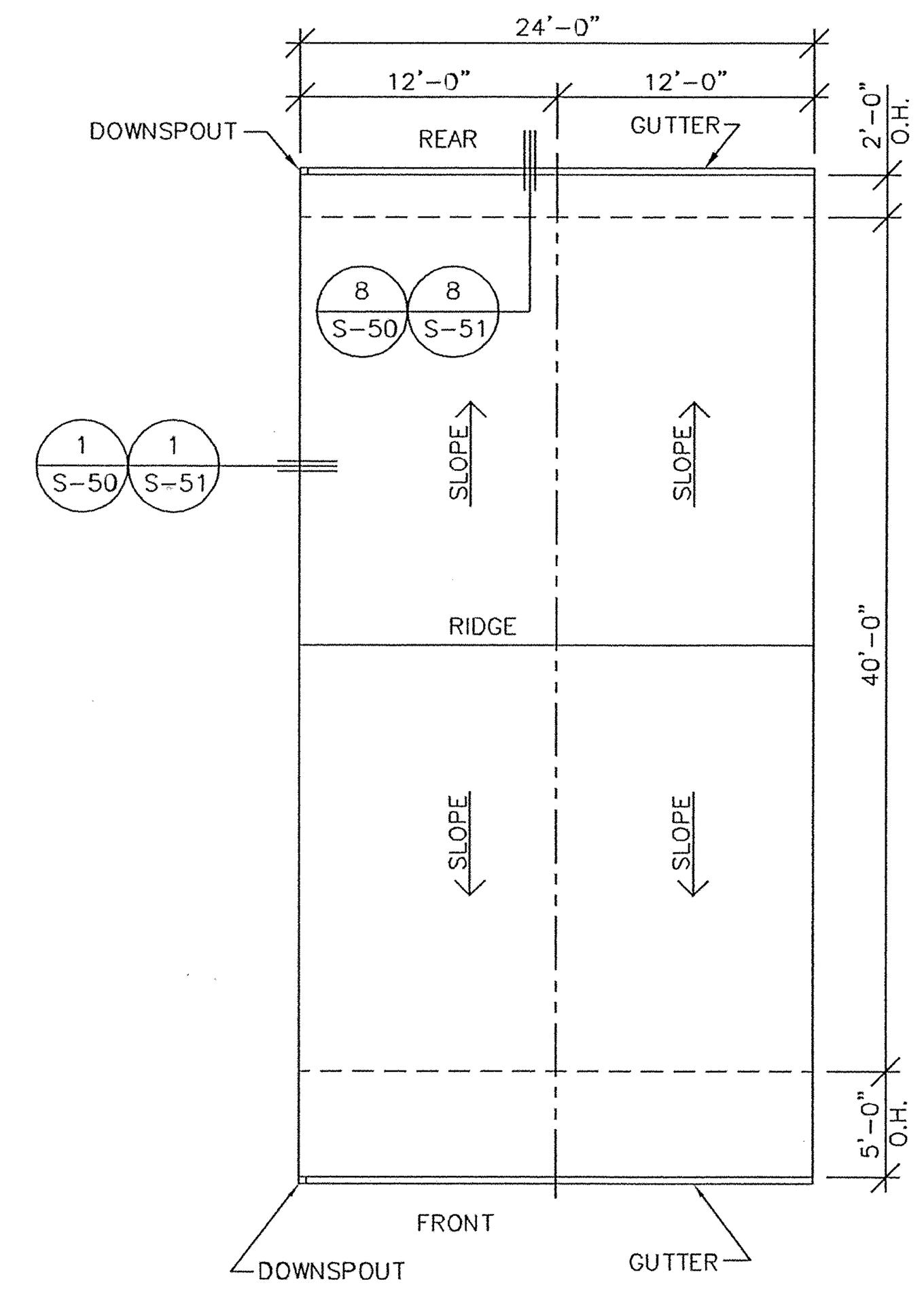
ELEVATION B



ELEVATION C



ELEVATION D



DUAL PITCH ROOF PLAN

SEE SHEET G-2 FOR ROOFING MATERIALS

NOTE:
BUILDING HOUSING GROUP 'E' OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 15A C.B.C. – CLASS 'A'

NOTE:
PROVIDE FIRE BLOCKING PER C.B.C. 708

NOTE:
FLOOR PLAN SHOWN IS 'B' BUILDING 'A' BUILDING IS OPPOSITE HANDED

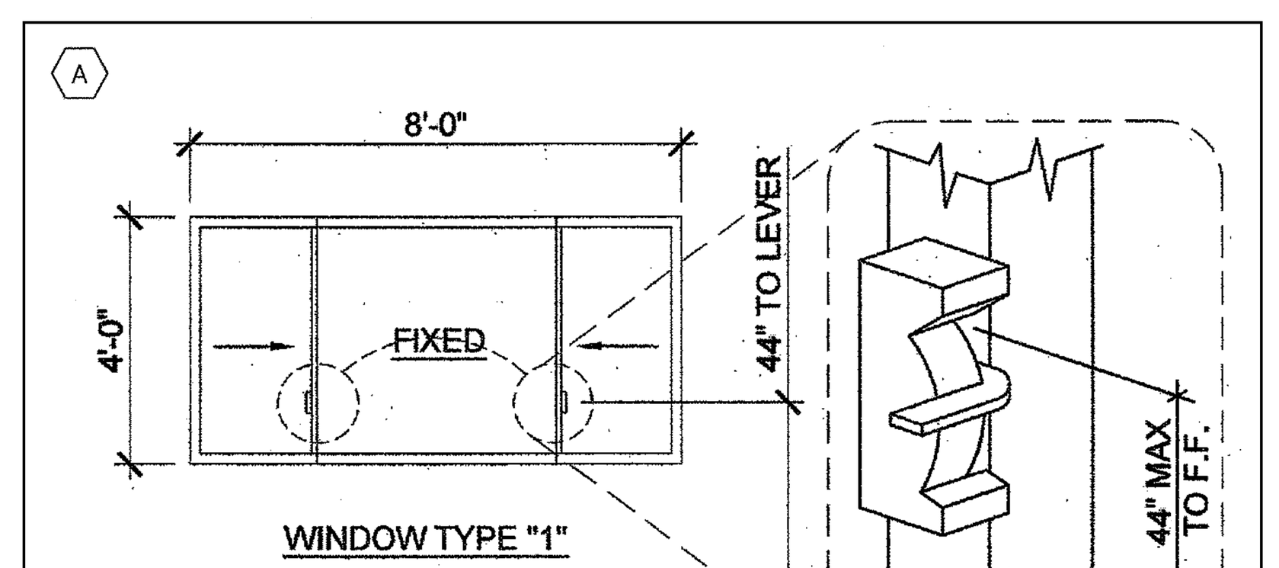
LEGEND

- INDICATES DOOR TYPE, SEE SHEET G-2
- INDICATES HARDWARE TYPE, SEE SHEET G-2
- (A) INDICATES WINDOW TYPE– SEE SHEET G-2
- DETAIL # / SHEET #

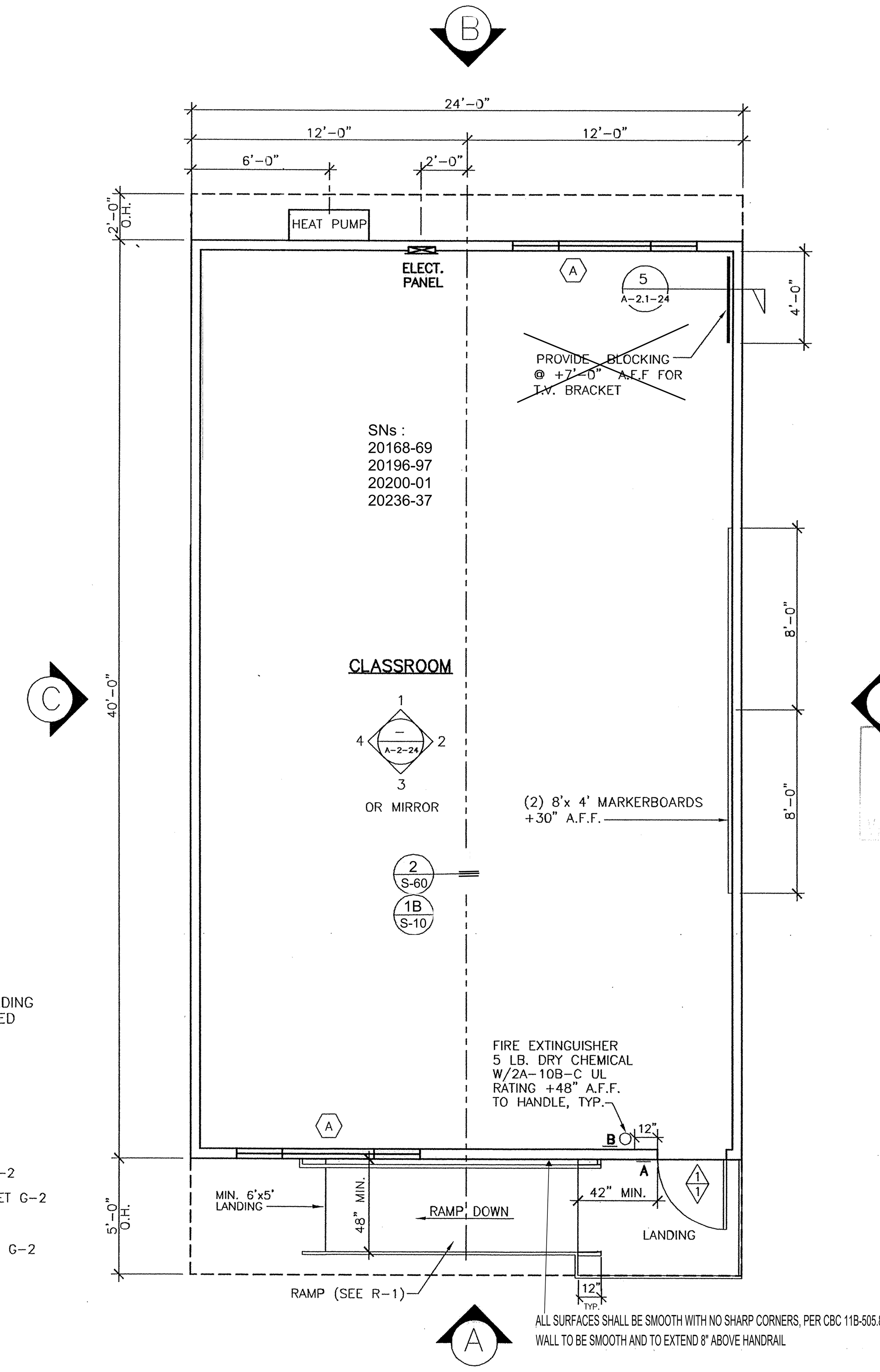
SIGNAGE LEGEND:

A: ROOM SIGNAGE PER DETAIL #3, SHEET G-4
B: EXIT SIGNAGE PER DETAIL #3, SHEET G-4

SEE NOTE 4 BELOW FOR SIGNAGE REQUIREMENTS



* NOTE:
WINDOW LATCH TO BE ACCESSIBLE PER 11B-309.4 & 11B-308



ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 8" ABOVE HANDRAIL

FLOOR PLAN

1/4"=1'-0"
A - AS SHOWN
~~B - MIRRORED (OPPOSITE)~~
(AC unit may remain on original set module - as only front wall may have been mirrored.)

NOTES:

1. MANUFACTURER SHALL MECHANICALLY ATTACH METAL TAG TO EXTERIOR OF BUILDING SHOWING DSA APPLICATION NUMBER, MANUFACTURERS NAME, UNIT SERIAL NUMBER, DESIGN LIVE LOADS FOR FLOOR AND ROOF, AND THE DESIGN WIND LOAD.
2. WALL AND CEILING FINISHES SHALL BE MIN. CLASS I MATERIAL
3. FIBERGLAS INSULATION SHALL HAVE THE FOLLOWING: FLAME SPREAD 0–25 SMOKE DEVELOPED, FUEL CONTRIBUTED 0–450
4. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON SHEET CS PROVIDED AND INSTALLED BY OTHERS ONSITE. SEE #3/G-4
5. ANY ROOM HAVING AN OCCUPANT LOAD OF 50 OR MORE WHERE FIXED SEATS ARE NOT INSTALLED, AND WHICH IS USED FOR CLASSROOM, ASSEMBLY, DINING OR SIMILAR PURPOSE SHALL HAVE THE CAPACITY OF THE ROOM POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT OF THE ROOM. POSTING SHALL BE BY MEANS OF A DURABLE SIGN HAVING CONTRASTING COLOR FROM THE BACKGROUND TO WHICH IT IS ATTACHED.
6. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR ATUOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 POUNDS.

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MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT: 24'x40' MODULAR CLASSROOM BUILDING

TITLE: 24'x40' FLOOR PLAN, EXTERIOR ELEVATIONS & ROOF PLAN (DUAL PITCH ROOF)

JOB #	03–1014
DATE	7/11/03
DRAWN BY	JAG
SCALE	1/4"=1'-0"
APPROVED	
REVISIONS	

SHEET NO.
A–1.1–24

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
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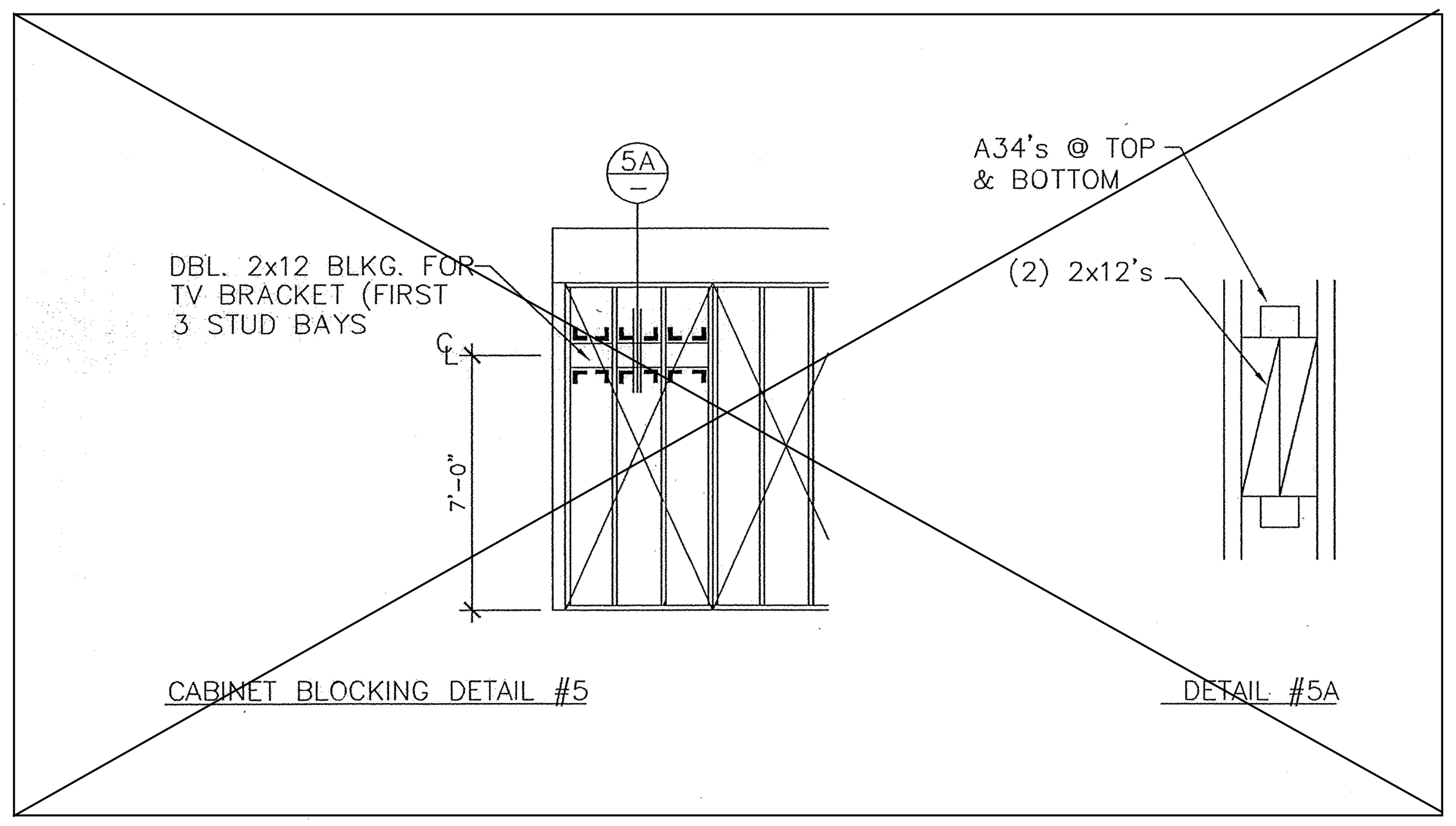
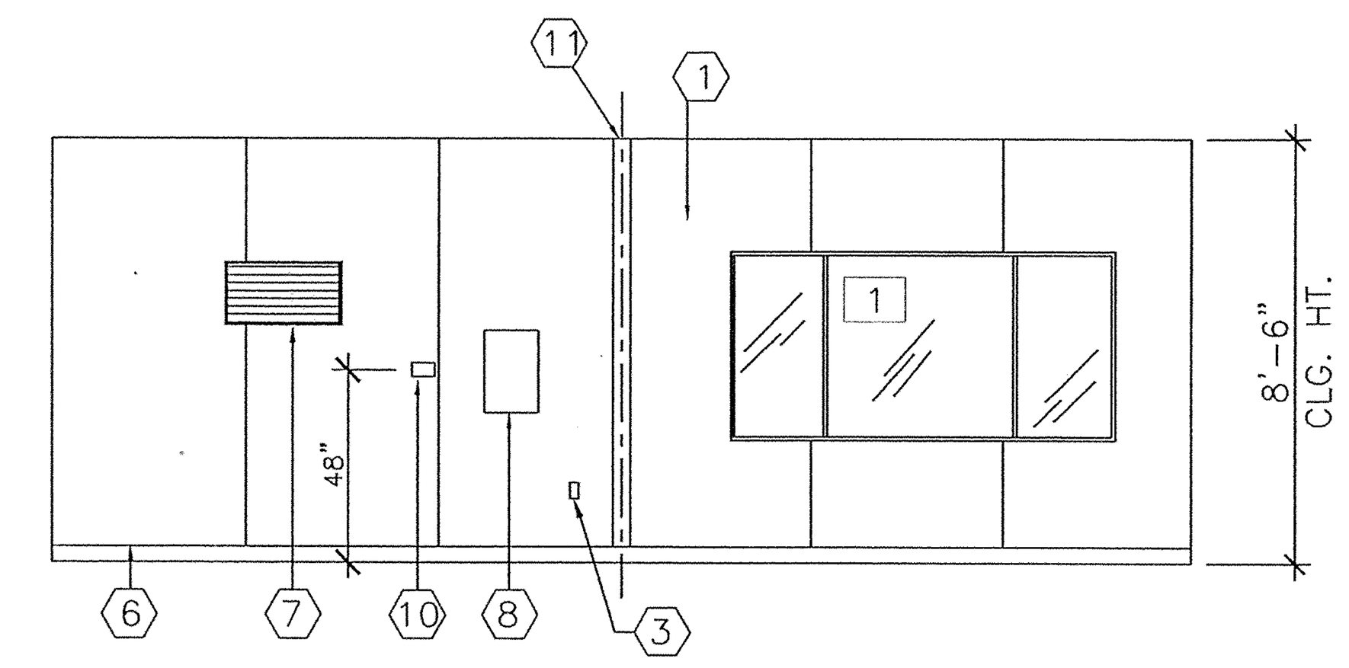
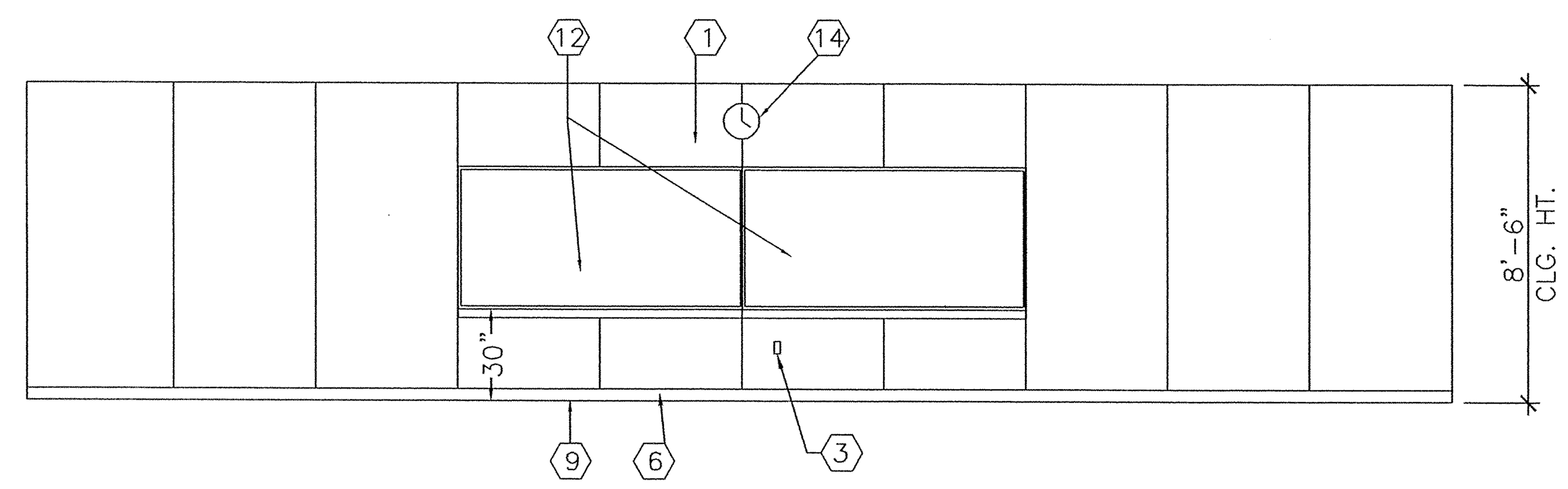
DATE: 06/20/2024

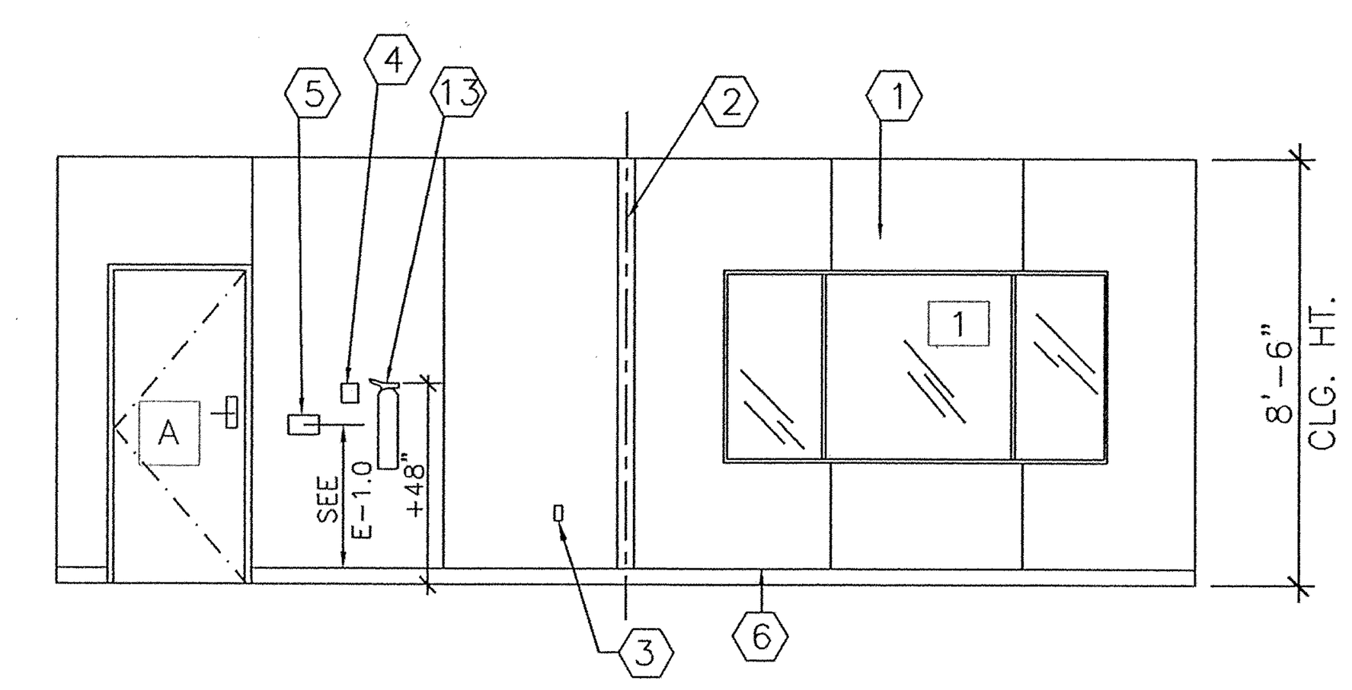




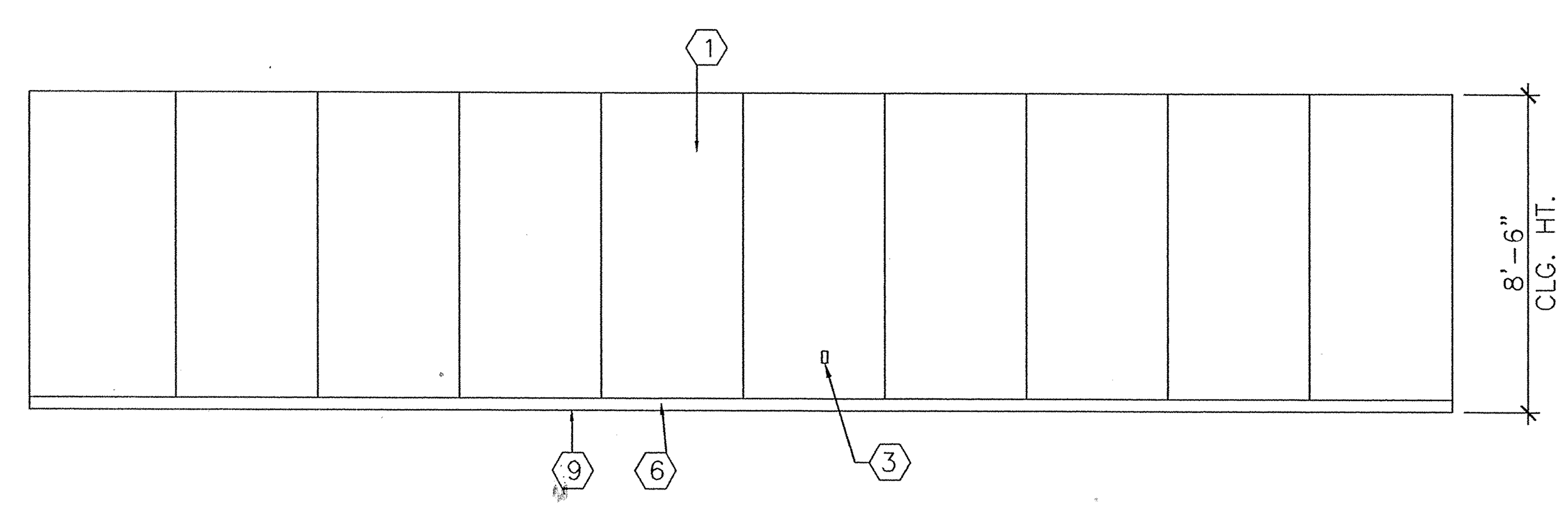
INTERIOR ELEVATION #1
SCALE: 1/4"=1'-0"



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



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



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

KEYNOTES:

A#-03-123199
FILE # 15-6

- A EXTERIOR DOOR
- 1 EXTERIOR WINDOW
- (1) TYPICAL INTERIOR FINISH
- (2) CLOSURE AT MODULAR JOINT
- (3) DUPLEX WALL RECEPTACLE +18" A.F.F. (SEE POWER PLAN)
- (4) FIRE ALARM PULL STATION (SEE POWER PLAN)
- (5) LIGHT SWITCH (SEE LIGHTING PLAN)
- (6) TOP SET BASE (TYPICAL) SEE FINISH SCHEDULE
- (7) RETURN AIR GRILL
- (8) ELECTRICAL PANEL
- (9) FINISH FLOOR
- (10) THERMOSTAT SEE MECHANICAL PLAN
- (11) MODULAR JOINT
- (12) (2) 8'-0" x 4'-0" MARKERBOARD
- (13) FIRE EXTINGUISHER
- (14) 12" DIA. ELECTRIC CLOCK (SEE ELECTRICAL POWER PLAN)

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PHONE: (909) 788-3035 FAX: (909) 788-1523

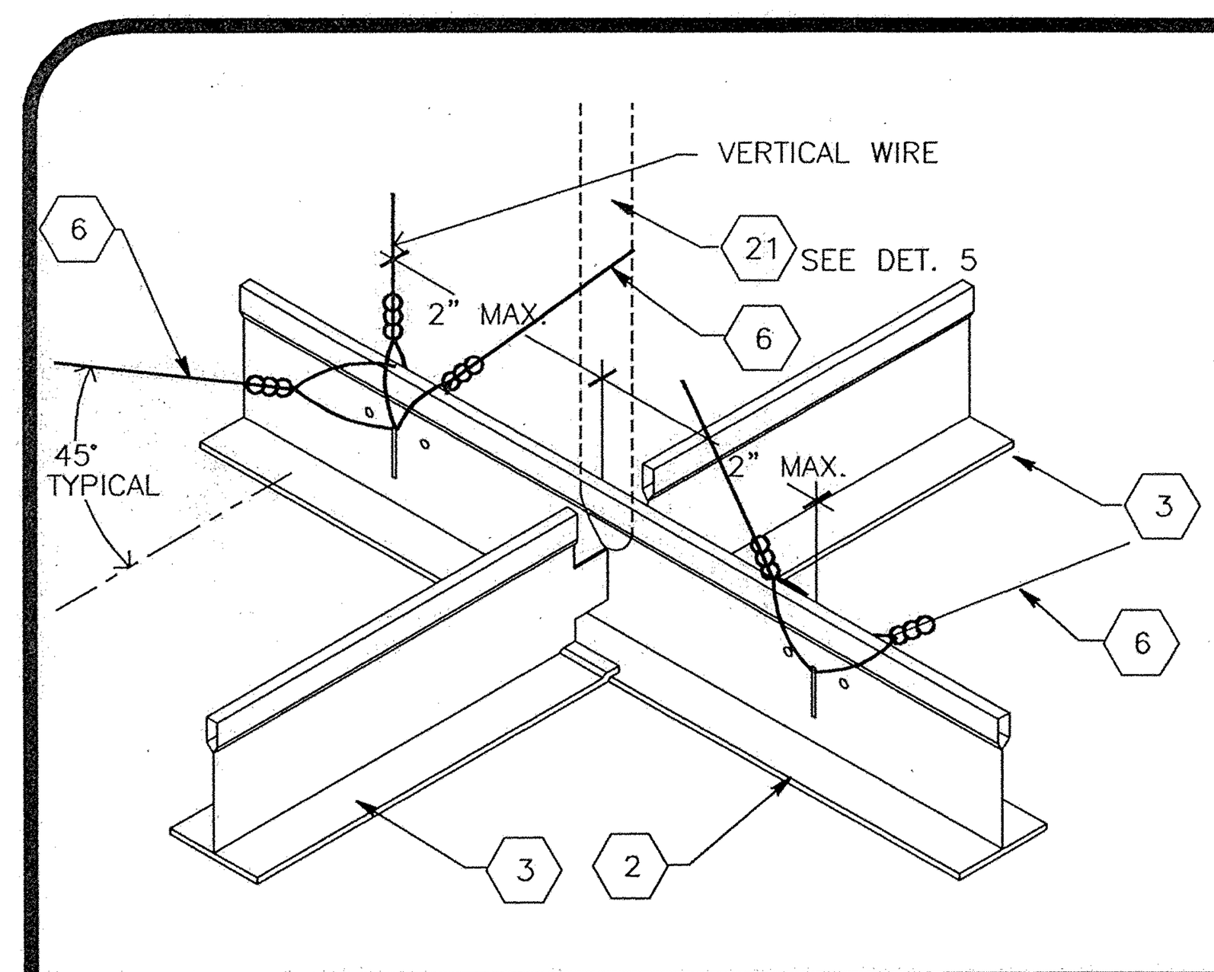
PROJECT
24'x40'
MODULAR CLASSROOM BUILDING

TITLE
24'x40'
INTERIOR ELEVATIONS

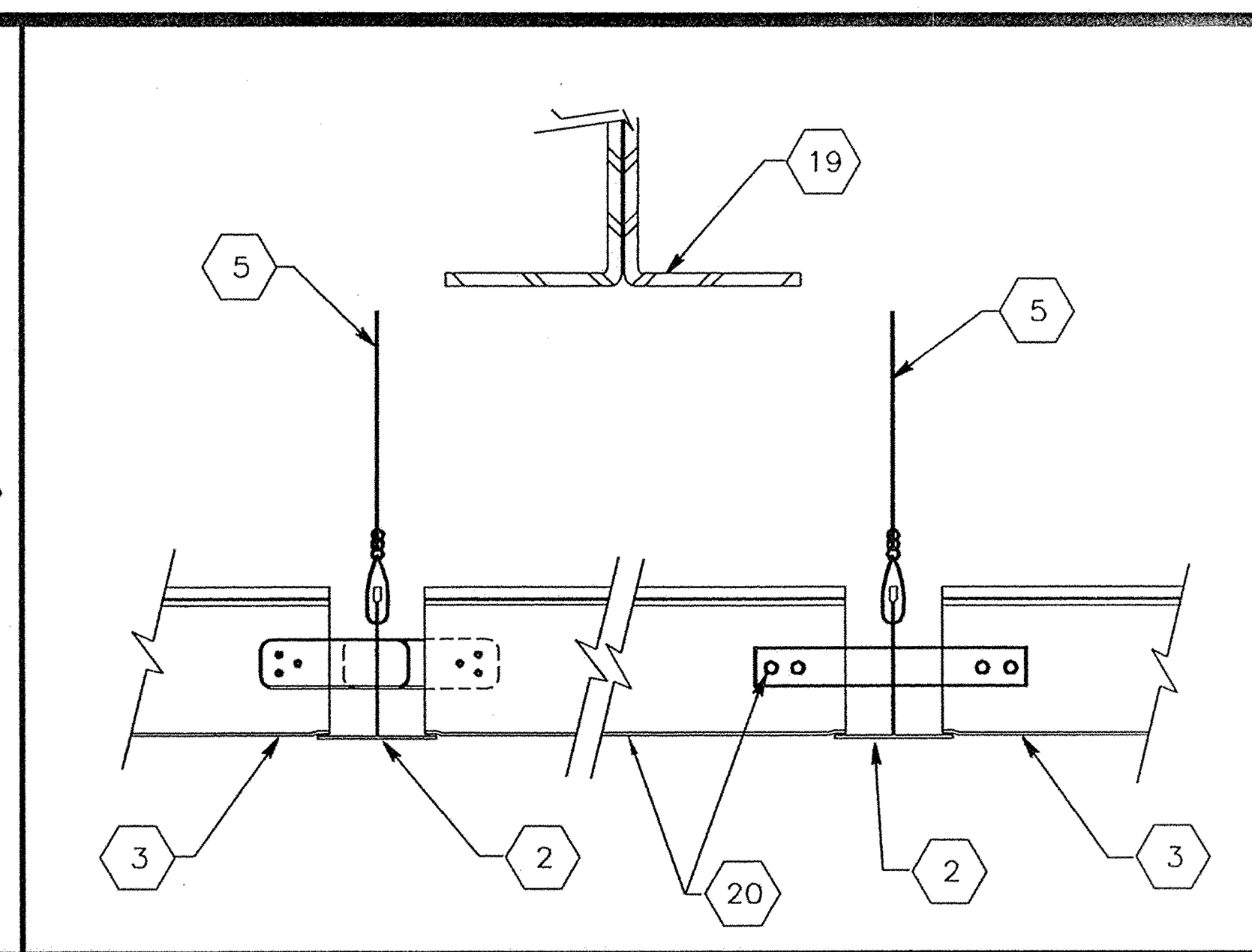
JOB #	03-1014
DATE	7/11/03
DRAWN BY	JAG
SCALE	1/4"=1'-0"
APPROVED	
REVISIONS	

SHEET NO.
A-2.1-24

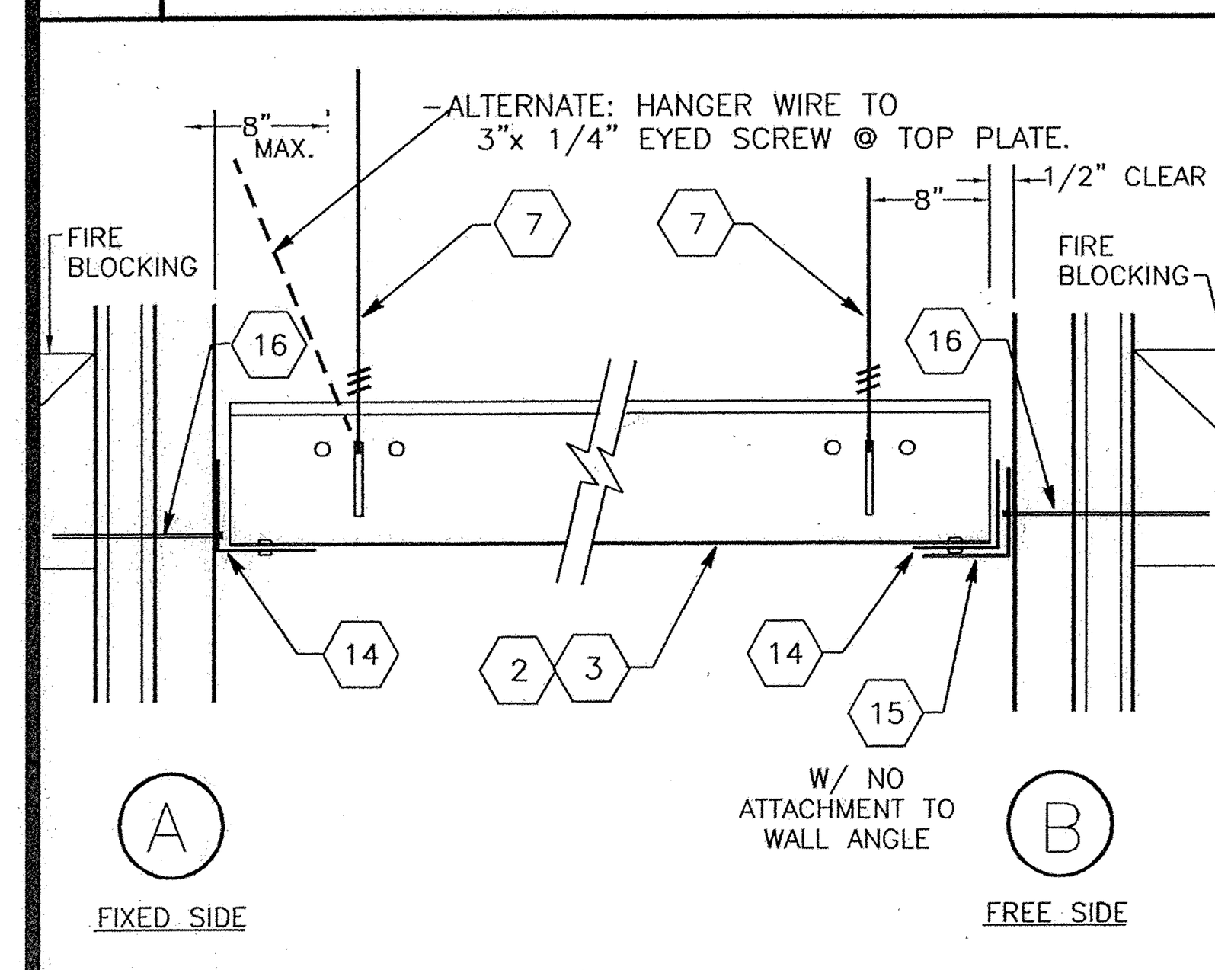
A#-03-123199
FILE # 15-6



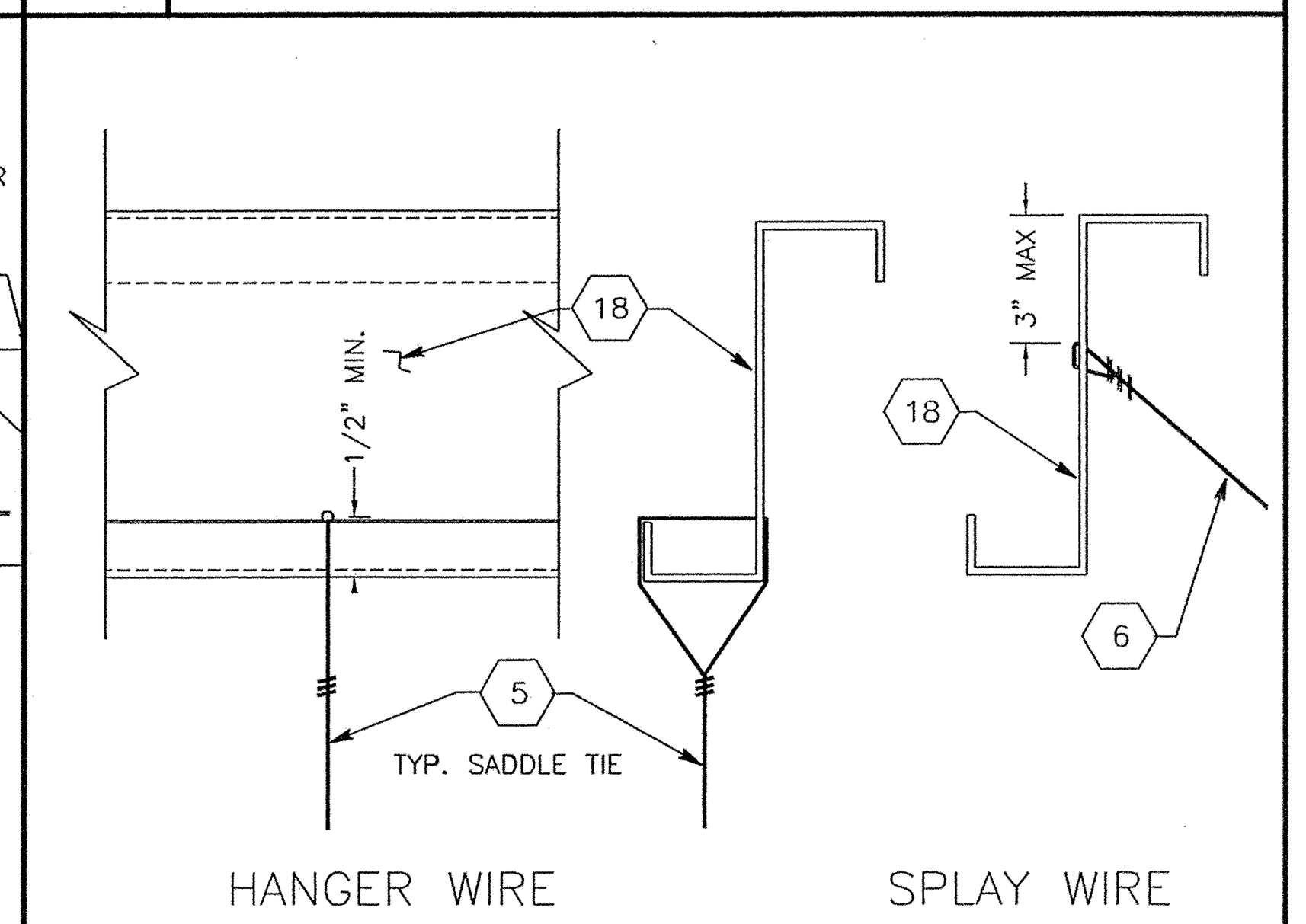
1 SPLAY WIRE



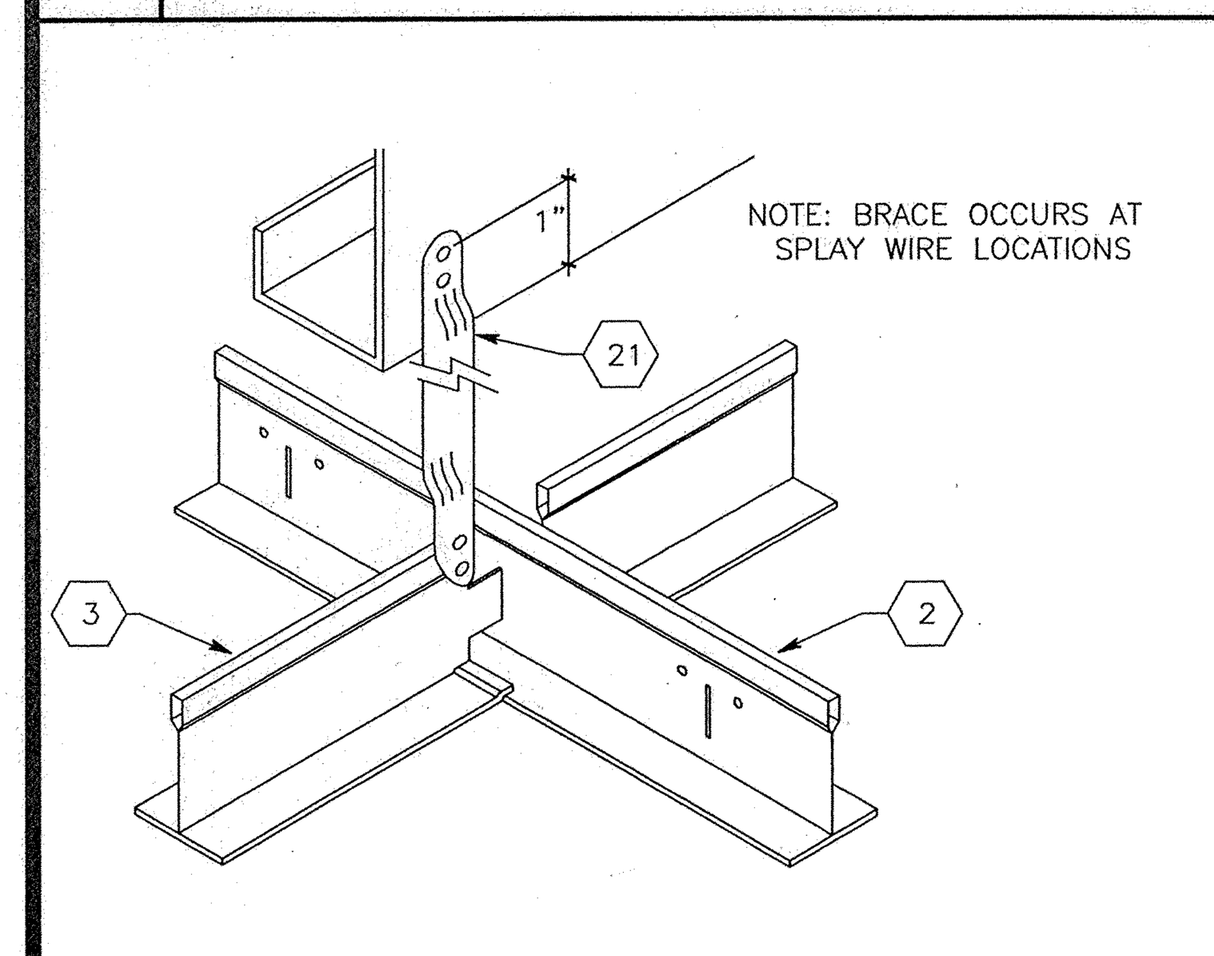
2 GRID AT MODLINE



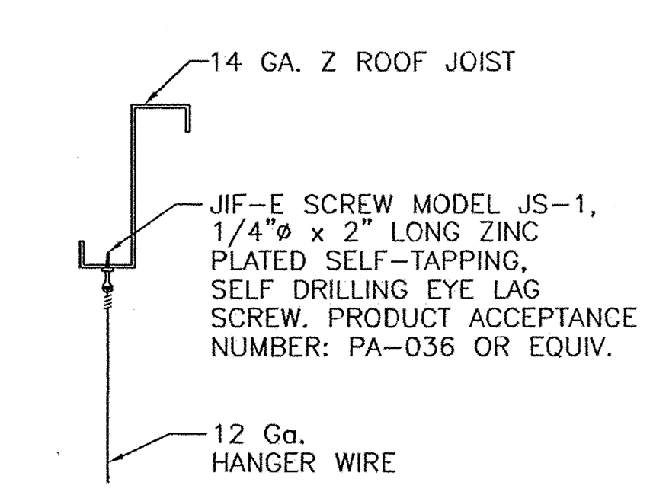
3 GRID AT WALL



4 WIRE ATTACHMENT

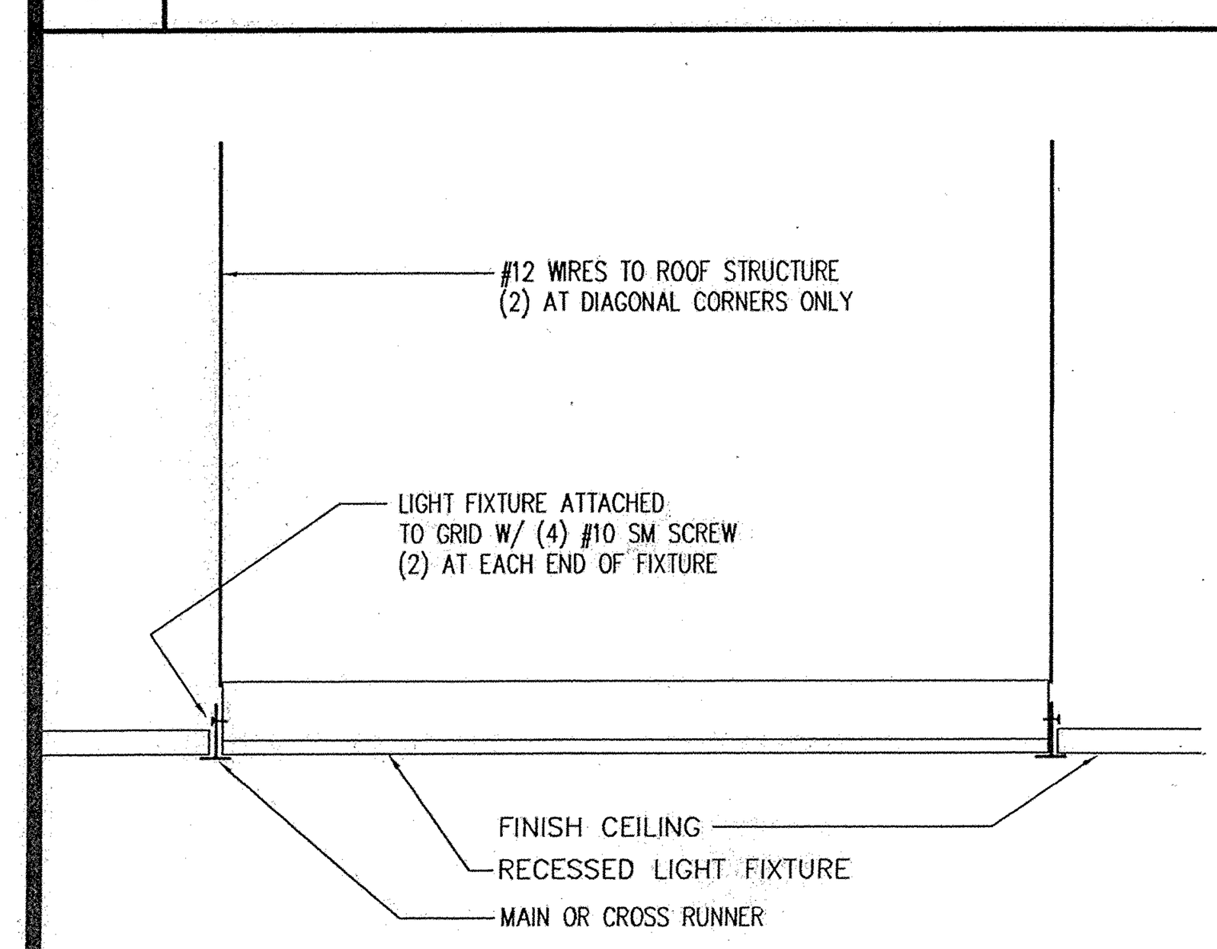


5 VERTICAL BRACE

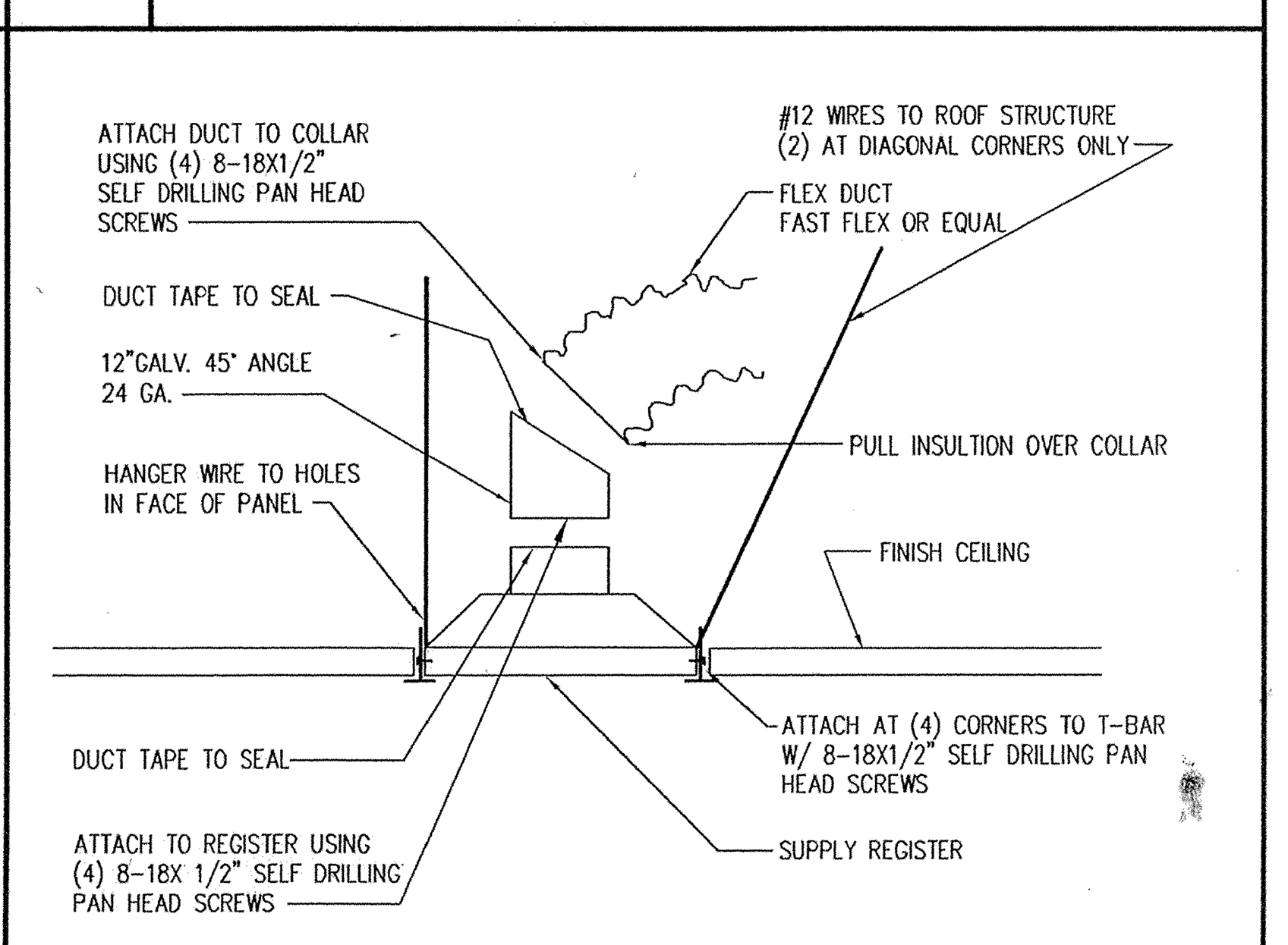


HANGER WIRE TO ROOF

6 ALTERNATE WIRE ATTACHMENT



7 LIGHTING FIXTURE DETAIL



8 REGISTER BOX DETAIL

KEY NOTES

1 MAIN RUNNERS @ 4'-0" O.C. WITH HANGER WIRES SPACED @ 4'-0" O.C. MAX.

2 MAIN RUNNER: DONN CORP. DX-26 HEAVY DUTY

3 CROSS RUNNER: DONN CORP. DXO-424 HEAVY DUTY

4 WALL RUNNER: DONN CORP. M7-EV

5 TYPICAL HANGER WIRE TO BE 12 Ga. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (3) TIGHT TURNS WITHIN 1 1/2" – SEE DETAIL 4

6 TYPICAL SPLAY WIRE TO BE 12 Ga. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (4) TIGHT TURNS WITHIN 1 1/2" – SEE DETAIL 4

7 AT END OF ROWS OF RUNNERS, A HANGER WIRE SHALL BE ATTACHED WITHIN 8" (OF ANY WALL OR SOFFIT.) OR 1/4 LENGTH OF END TEE WHICHEVER IS LEAST

8 VERTICAL WIRES MORE THAN 1:6 OUT OF PLUMB SHALL HAVE COUNTERBALANCE WIRES INSTALLED. ADJOINING WALLS; AT OTHER WALLS NO ATTACHMENT. A 1/2" CLEARANCE BETWEEN END OF RUNNER AND FACE OF WALL. WIRES INSTALLED AS INDICATED ON PLAN. SPLAY WIRES SHALL BE TAUT BUT NOT DISTORTED.

9 RUNNERS MAY BE ATTACHED TO WALL MOLDING AT (2) ADJOINING WALLS; AT OTHER WALLS NO ATTACHMENT. WHERE THERE IS NO ATTACHMENT THERE SHALL BE A 1/2" CLEARANCE BETWEEN END RUNNER AND FACE OF WALL.

10 CEILING AREAS EVERY 144 SQ. FT. OR LESS SHALL HAVE SPLAY WIRES INSTALLED AS INDICATED ON CEILING PLAN. SPLAY WIRES SHALL BE TAUT BUT SHALL NOT DISTORT GRID.

11 ELECTRICIAN SHALL PROVIDE (2) SLACK HANGER WIRES AT OPPOSITE CORNERS OF ALL LIGHT FIXTURES. WIRES SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5. LIGHT FIXTURES SHALL BE ATTACHED TO CEILING GRID WITH (1) #8 SHEET METAL SCREW @ EACH CORNER.

12 DUCTWORK, IF REQUIRED, SHALL BE RIGIDLY ATTACHED TO STRUCTURE ABOVE AT INTERVALS NOT TO EXCEED 4'-0" AND SHALL NOT BE CLOSER THAN 6" TO ANY WIRE.

13 CEILING REGISTERS, WHEN INDICATED ON PLANS, SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5.

14 CONT. WALL ANGLE WITH POP RIVET TO EACH MEMBER.

15 CONTINUOUS WALL ANGLE.

16 6d NAIL @ 16" O.C. INTO BLOCK OR STUD.

17

18 ROOF JOIST

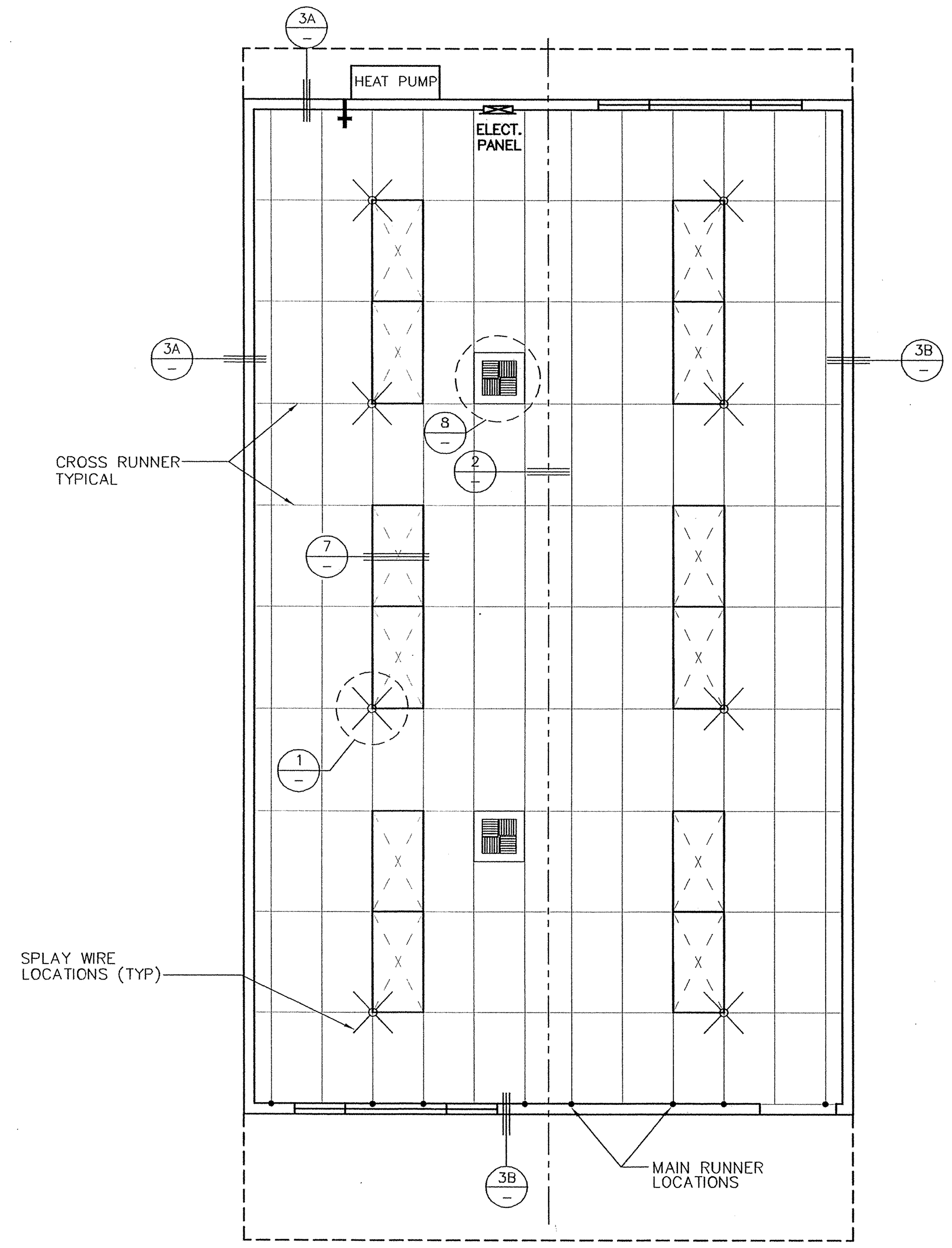
19 ROOF BEAM

20 CLOSE OFF CROSS TEE– INSERT ONE END OF CROSS TEE INTO MAIN RUNNER WITH BAYONET. CUT OPPOSITE END TO FIT (IF LESS THAN 24"). INSERT MIN. 20 ga. MTL. STRAP THRU MAIN RUNNER, SECURE TO CROSS TEE W/ (2) #8 TEK SCREWS AT EACH END.

21 VERTICAL BRACE– 1/2" STEEL EMT AT SPLAY WIRE LOCATIONS. (MAX. HT. OF 4'-0") DRILL 1/8" HOLE THRU CONDUIT AT TOP & BOTTOM. ATTACH CONDUIT TO JOIST ABOVE OR TO BLOCKING W/ (2) #12 SCREWS @ TOP & BOTTOM.

LEGEND

- SUPPLY AIR DIFFUSERS
- 2'x 4' FLUORESCENT DROP-IN FIXTURE
- 4-WAY SPLAY WIRE SYSTEM
- EXHAUST FAN



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

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ARCHITECT STAMP
DATE SIGNED
JUL 15 2003
No. 3602
STRUCTURAL ENGINEER STAMP
STATE AGENCY STAMP
STATE AGENCY STAMP

PROJECT 24'x40' MODULAR CLASSROOM BUILDING

TITLE 24'x40' REFLECTED CEILING PLAN

JOB #	03-1014
DATE	7/11/03
DRAWN BY	JAG
SCALE	1/4"=1'-0"
APPROVED	
REVISIONS	

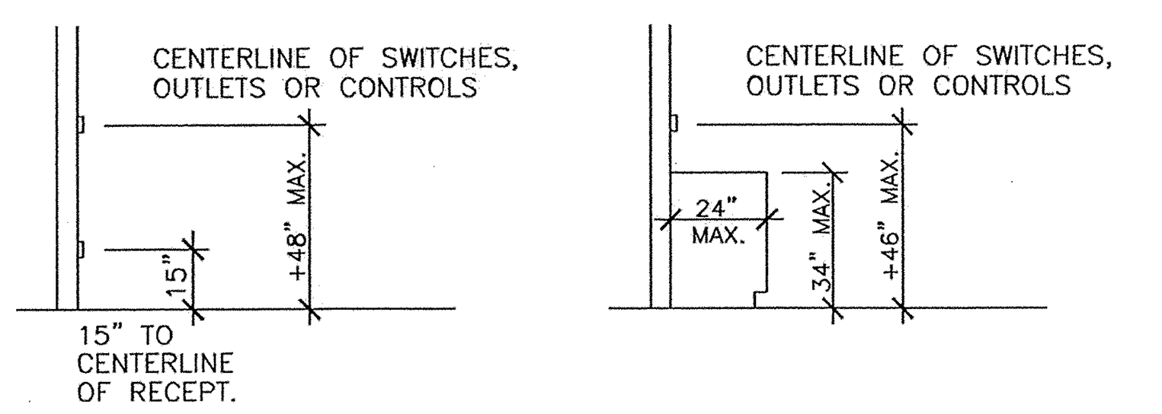
SHEET NO.
A-3.1-24

A#-03-123199
FILE # 15-6

SYMBOL LEGEND

- DISCONNECT–GENERAL SWITCH R610–B,60 AMP. NOT REQUIRED ON A/C UNITS WITH INTERNAL DICONNECT BREAKER
- PULL STATION J–BOX W/ 3/4"ø CONDUIT @ 48" A.F.F.
- EXT. HORN J–BOX W/ 3/4"ø CONDUIT @ + 7'–0" A.F.F.
- 110V RECEPTACLE 20 AMP SPECIFICATION GRADE @ +18" A.F.F.
- SWITCH @ +42" A.F.F.
- SPRING WOUND MECHANICAL TIMER, 1–HR. TIMING RANGE SWITCH @ +42" A.F.F.
- EXTERIOR LIGHT +7'–6"– SEE FIXTURE SCHEDULE
- HORN/STROBE LIGHT J–BOX W/ 3/4"ø CONDUIT @ + 80" A.F.F.
- (S) SMOKE DETECTOR J–BOX W/ 3/4"ø CONDUIT @ CEILING
- (H) HEAT DETECTOR J–BOX W/ 3/4"ø CONDUIT IN ATTIC SPACE (ONE PER MODULE, IN ATTIC TYP.)
- TV TELEVISION J–BOX @ 84" A.F.F. W/ 3/4" CONDUIT STUBBED TO ATTIC
- OS–2 OCCUPANCY SENSOR @ 42", LEVITON ODSOD–ID
- (P) DIRECTIONAL PHOTO CELL CONTROL ON ROOF
- CLOCK W/CLOCK OUTLET @ +8'–0"
- +18" TELE/DATA OUTLET 4" SQ. J–BOX W/ 3/4" CONDUIT STUBBED TO ATTIC
- G.F.I. 110V DUPLEX G.F.I. RECEPTACLE – 15 AMP

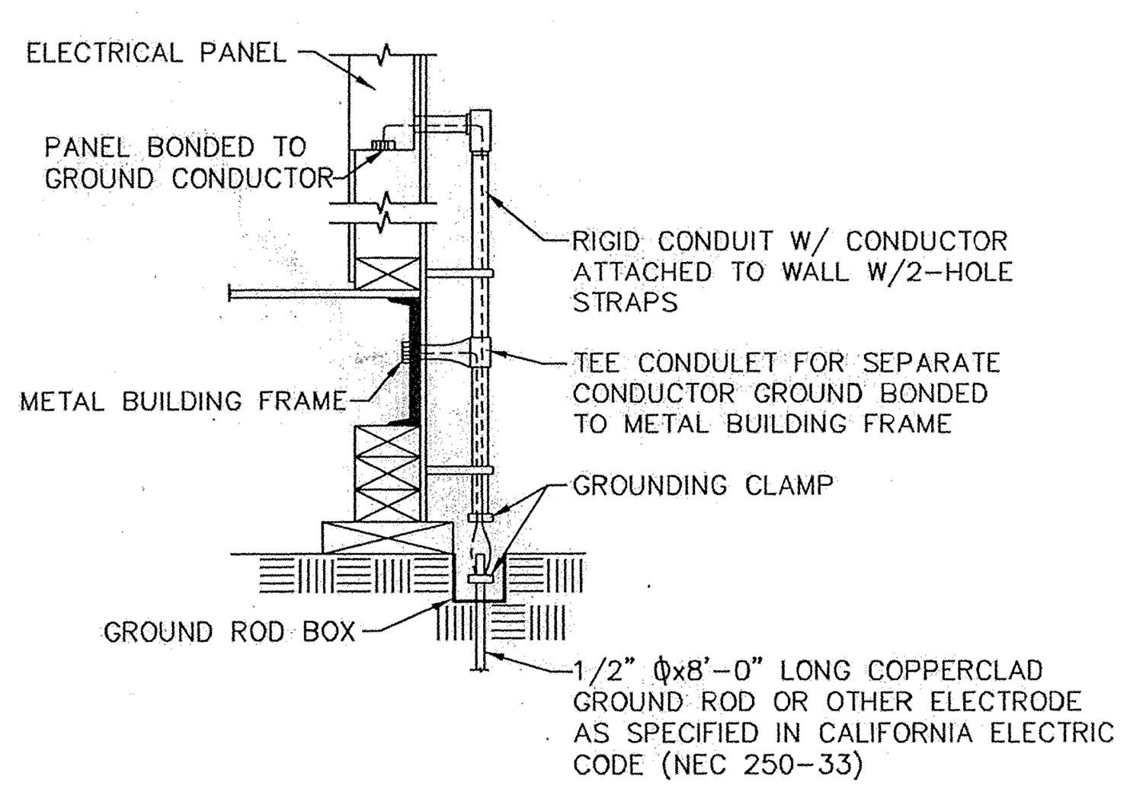
NOTE:
ALL FIXTURE MOUNTING HEIGHTS ARE TO THE CENTER OF THE FIXTURE (U.N.O.)



MOUNTING HEIGHT OVER OBSTRUCTION

FIRE ALARM NOTES

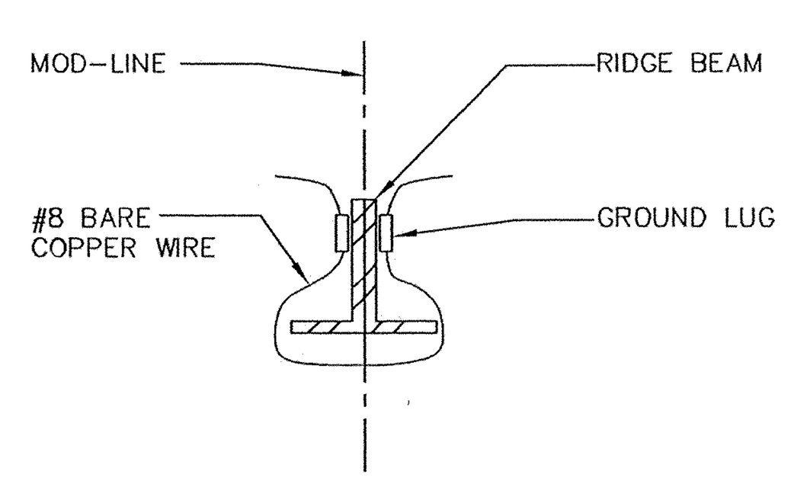
1. FIRE ALARM SYSTEM SHALL COMPLY W/ TITLE 24 SEC. 305.9, TITLE 24, PART 3, ARTICLE 760 OF THE CALIFORNIA CODE OF REGULATIONS AND CALIFORNIA FIRE REGULATIONS, ARTICLE 10.
2. INSTALLATION OF FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAIL PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STUCTURAL ENGINEER IN GENERAL CHARGE OF DESIGN AND THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT AND STATE FIRE MARSHAL.



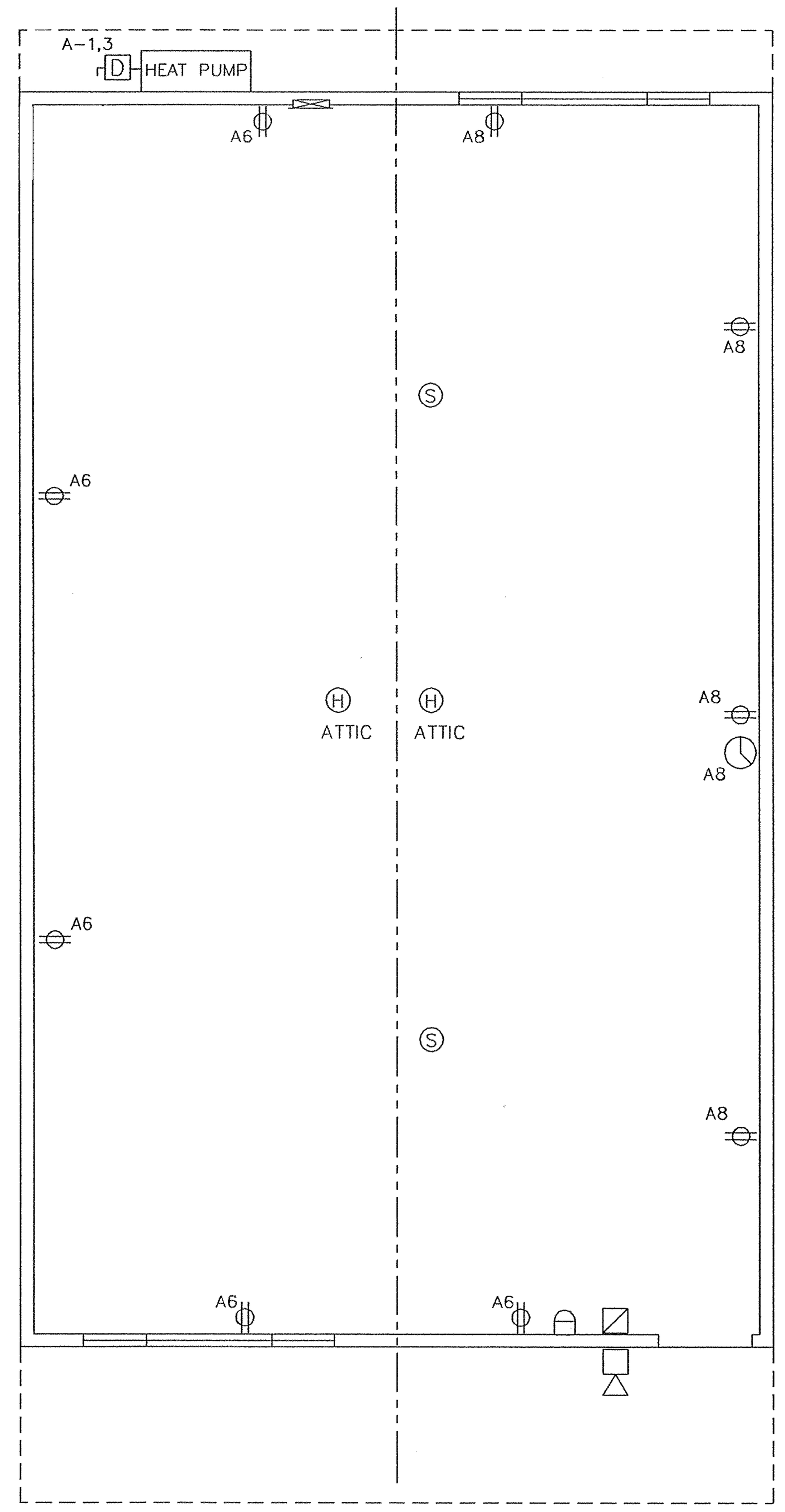
NOTES:
1. SIZE OF CONDUCTORS SHALL COMPLY W/NEC TABLE 250–95.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & TO METAL BUILDING FRAME (NEC 250–81) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (NEC 250–81 & 250–83).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). INCLUDING RAMP TO STEEL FRAME.
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS W/CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'–0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (NEC 250–84).
5. PROJECT INSPECTOR SHALL WITNESS GROUNDING TEST.

ACCEPTABLE GROUNDING DETAIL

BY OWNER

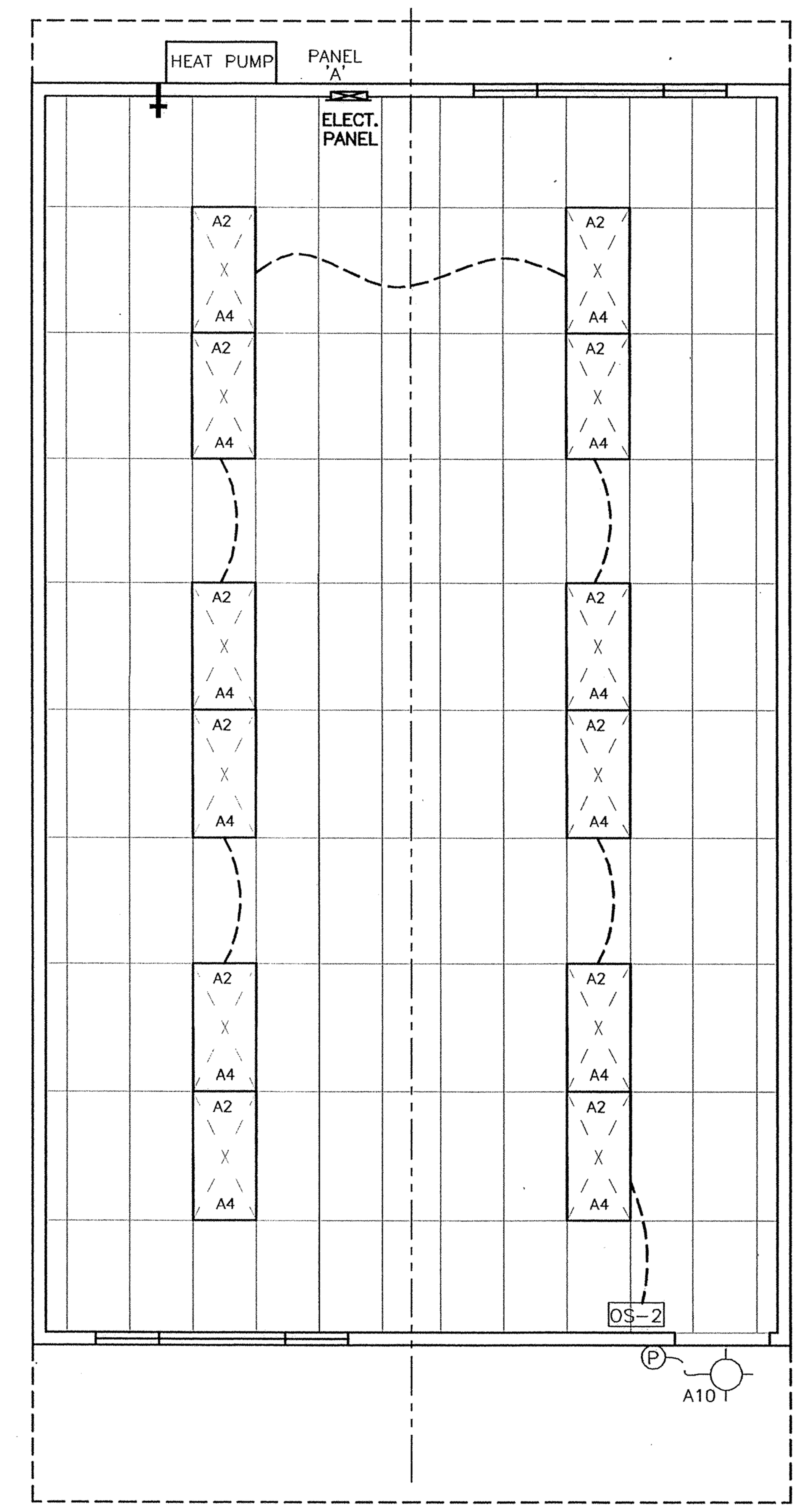


MODULE BONDING



ELECTRICAL POWER PLAN

SCALE: 1/4"=1'–0"



ELECTRICAL LIGHTING PLAN

SCALE: 1/4"=1'–0"

PANELBOARD SCHEDULE PANEL A

VOLTS 120/240 PHASE 1 BUSS 100 A FEED BOTTOM
MAIN BRKR 100 A WIRE 3 MOUNT FLUSH LOCATION INTERIOR

DESCRIPTION	WATTS Aø	WATTS Bø	WIRE SIZE	BREAKER	POLE	CKT. NO.	A	B	CKT. NO.	POLE	BREAKER	WIRE SIZE	WATTS Aø	WATTS Bø	DESCRIPTION
HVAC 3.5 TON	6900	—	6	60	2	1			2	1	20	12	576	—	LIGHTS
HVAC 3.5 TON	—	6900	–	–	–	3			4	1	20	12	—	651	LIGHTS/PORCH
J.BOX FOR W.H.	1500	—	12	20	1	5			6	1	20	12	1080	—	RECEPT.
–	—	—	–	–	–	7			8	1	20	12	—	1080	RECEPT.
–	—	—	–	–	–	9			10	1	20	12	75	—	EXT. LIGHT
–	—	—	–	–	–	11			12	–	–	–	—	—	–
SUB TOTAL	8,400	6,900											1,731	1,731	SUB TOTAL

LOAD KW
A 8,556
B 8,631
TOT 17,187

*L.C.L. = 1,227 x 1.25 = 1,534
OTHER = 15,960
MAX DEMAND = 17,494

TOTAL LOAD
MAX DEMAND 72.9 AMPS

FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	WATTS
	2'x 4' FLUORESCENT DROP IN LIGHT FIXTURE ACRYLIC PRASMATIC LENS, DOUBLE ELECTRONIC BALLAST, (3) 32 WATT T–8 TUBES, WEIGHT 27 LBS.	96 WATTS
	INCANDESCENT SURFACE MOUNTED EXTERIOR LIGHT FIXTURE WITH IMPACT RESISTANT ENCLOSURE WITH DIRECTIONAL PHOTO CELL CONTROL ON ROOF.	75 WATTS

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ARCHITECT STAMP
DATE SIGNED JUL 15 2003

STRUCTURAL ENGINEER STAMP
No. 3602
LICENSE EXPIRES 6–30–2004

STATE AGENCY STAMP
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04 103453
JUL 17 2003

STATE AGENCY STAMP

PROJECT: 24'x40' MODULAR CLASSROOM BUILDING

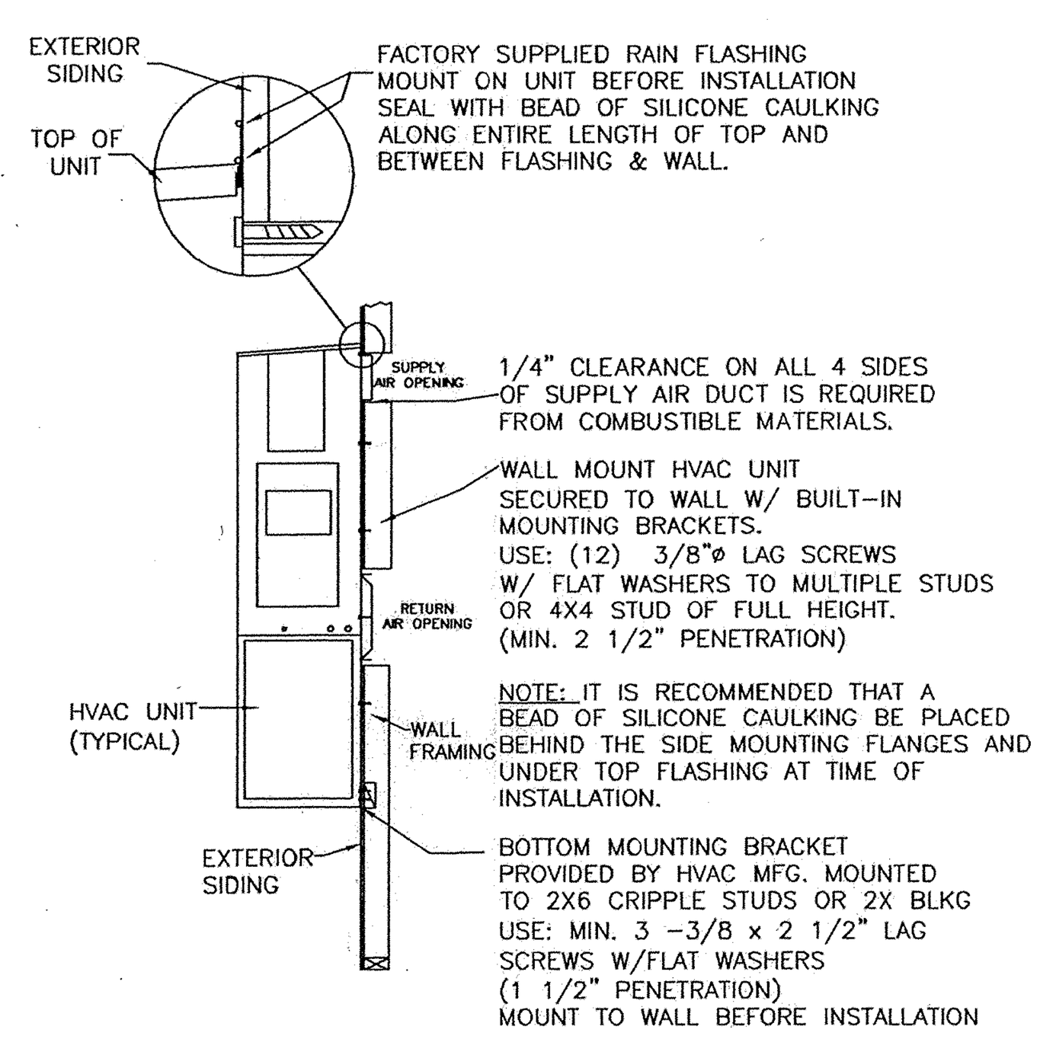
TITLE: 24'x40' ELECTRICAL LIGHTING PLAN ELECTRICAL POWER PLAN

JOB # 03–1014
DATE 7/11/03
DRAWN BY JAG
SCALE 1/4"=1'–0"
APPROVED
REVISIONS

SHEET NO.
E–1.1–24

A#-03-123199
FILE # 15-6

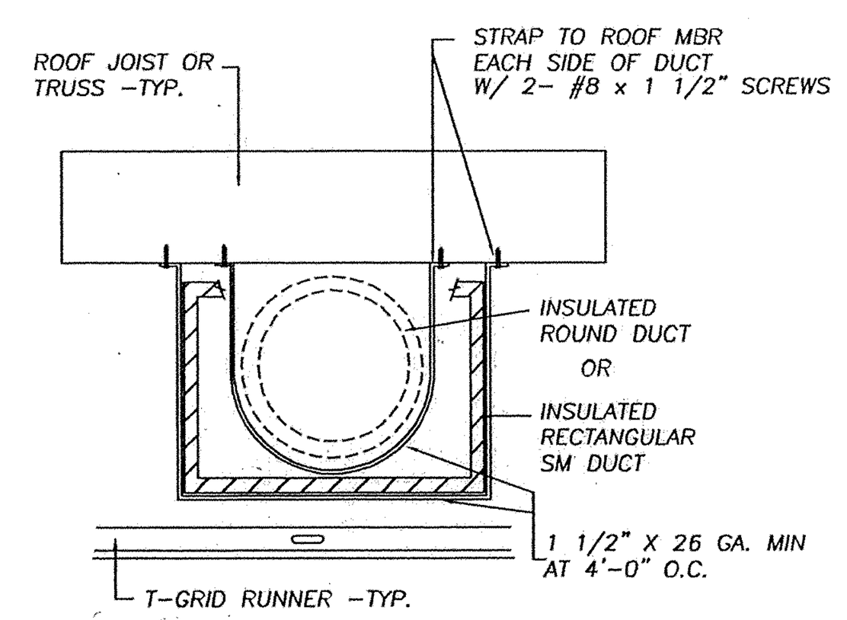
SIZE OF SUPPLY AND RETURN AIR OPENINGS AS PER MFG.'S SPECS ACCORDING TO SIZE OF HVAC UNIT



AIR FILTER: *SEE GEN. NOTES ON ARCH'L SHEET OF PLANS*

HVAC MOUNTING

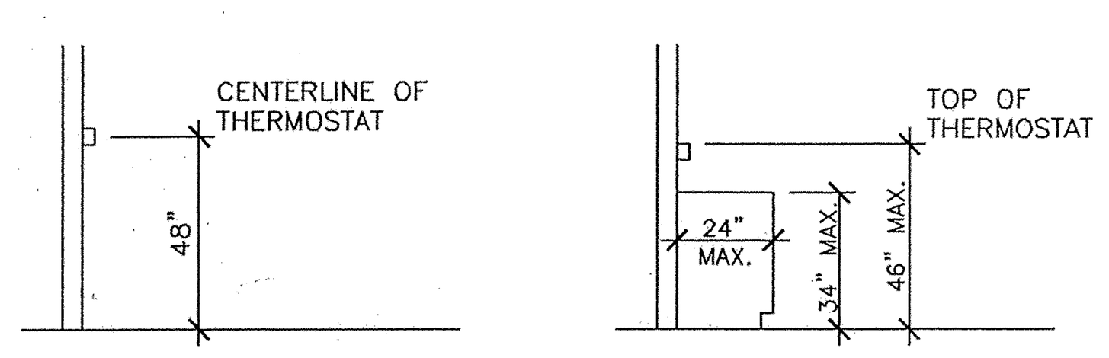
SCALE: 3/8" - 1'-0"



FACTORY-MADE AIR DUCTS: *SEE GENERAL NOTES ARCH'L SHEET OF PLANS*

DUCT MOUNTING

SCALE: 1" = 1'-0"



MOUNTING HEIGHT OVER OBSTRUCTION

MECHANICAL NOTES

FLEXIBLE DUCT SHALL BE MODULAR METAL FABRICATORS SERIES FDMA R4.2 WITH INSULATION, A POLY JACKET, AND A WIRE ENCAPSULATED NON-PERFORATED CORE THAT COMPLIES WITH ASTM C-518, 1991. FLEXIBLE DUCTING SHALL BE UL LISTED CLASS 1 AIR DUCT WITH A FLAME SPREAD RATING NOT TO EXCEED 25, AND A SMOKE-DEVELOPED RATING NOT TO EXCEED 50 IN ACCORDANCE WITH NFPA 90A & 90B.

THERMOSTAT PROGRAMMING TO BE PERFORMED AND BATTERY PROVIDED BY OTHERS ON SITE.

TEST AND BALANCE OF HVAC SYSTEM TO BE PROVIDED AND PERFORMED BY OTHERS ON SITE.

ALL HVAC EQUIPMENT LEAVES FACTORY WIRED FOR 240V. OPERATION. THE ACCEPTABLE OPERATING RANGE FOR THE 240 & 208 TAPS ARE:

TAP	RANGE
240	253-216
208	220-187

BARD HVAC OPENING @ SUPPLY		
10 SEER	SIZE	OPENING
WA/WH	1.0 TON	18 X 6
WA/WH	1.5 / 2.0 TON	21 X 9
WA/WH	2.5 / 3.0 TON	29 X 9
WA/WH	3.5 / 4.0 TON 5.0 / 6.0 TON	31 X 11
12 SEER	SIZE	OPENING
WA/WH	2.0 TON	29 X 9
WA/WH	2.5 TON	29 X 9
WA/WH	3.0 TON	31 X 11
GAS/ELEC.	SIZE	OPENING
WG	2.0 / 2.5 3.0 TON	29 X 9
WG	3.5 / 4.0 5.0 TON	31 X 11

EQUIPMENT & MATERIAL SCHEDULE

HP 1 — 3.5 TON STANDARD
HEAT PUMP 'BARD' WALLMOUNT, WH42-A05VP4 5KW
41,500 NOM. BTUH COOLING CAPACITY-10.00 SEER
41,000 NOM. BTUH HEATING CAPACITY FROM COMPRESSOR-6.60 HSPF
ADDITIONAL 17,065 NOM. BTUH HEATING CAPACITY FROM HEAT STRIP
MCA 60, MOCP 70, 1500 CFM @ .3 ESP, UNIT WEIGHT 510 LB.
MIN. WIRE SIZE #6, 230 VOLT, 60 CYCLE, SINGLE PHASE

NOTE:
ADJUST OUTSIDE AIR DAMPER TO A MIN. OF 352 CFM

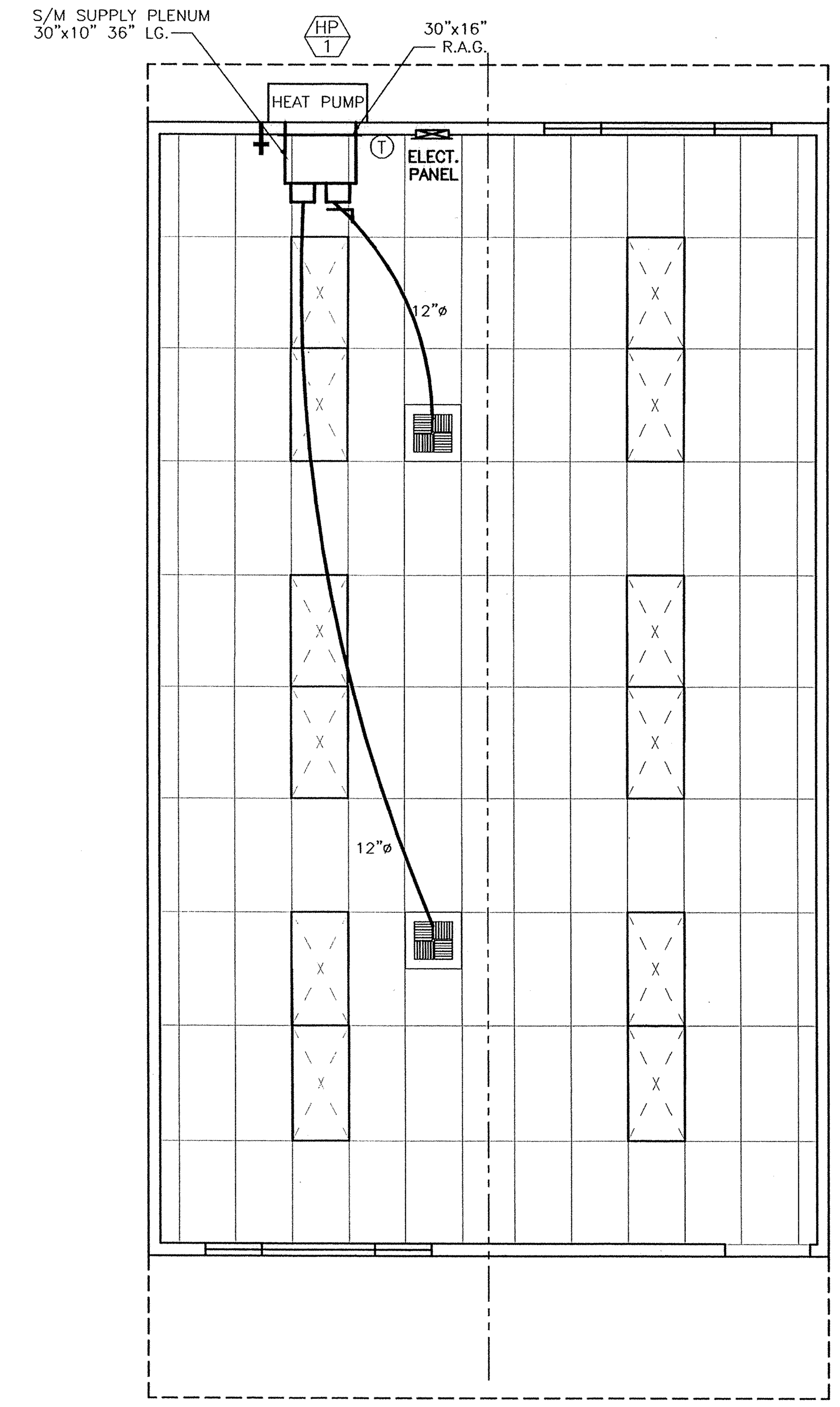
(T) THERMOSTAT - WHITE ROGERS 1F92-371
AUTO CHANGEOVER, ELECTRONIC, 5+2 DAY
3 HEAT, 2 COOL, MOUNT AT +48" A.F.F.
USE STAT GUARD #F29-0277

SUPPLY REGISTER, CEILING, SHOEMAKER
104-OBD, 16x16-12, T-BAR, OBD
4 WAY FIXED CURVE BLADE, U.N.O.

SUPPLY REGISTER, CEILING, AIRMATE
604M 8x8, MLD, 4 WAY FIXED BLADE
U.N.O.

EF 1 — EXHAUST FAN 109 CFM, BROAN #L100 WITH
6" DUCT TO BROAN # 634 ROOF CAP

SUPPLY BALANCE DAMPER (SIZE AS NOTED)



MECHANICAL PLAN

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ARCHITECT STAMP
DATE SIGNED JUL 15 2003

STRUCTURAL ENGINEER STAMP

STATE AGENCY STAMP

STATE AGENCY STAMP

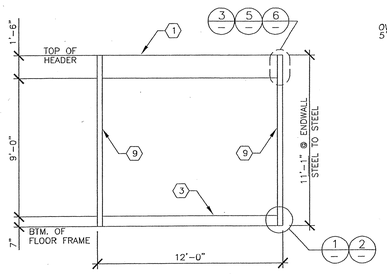
PROJECT: 24'x40' MODULAR CLASSROOM BUILDING

TITLE: 24'x40' MECHANICAL PLAN

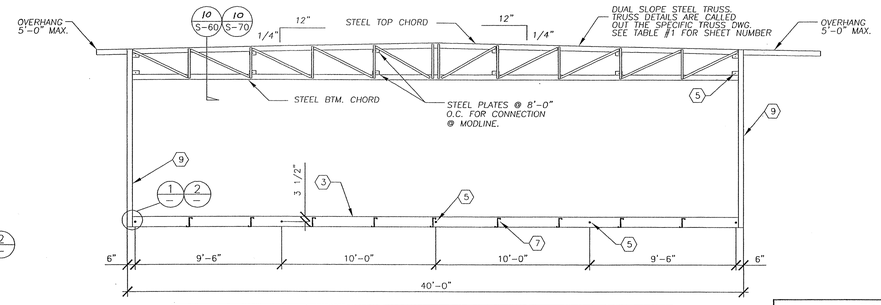
JOB # 03-1014
DATE 7/11/03
DRAWN BY JAG
SCALE 1/4"=1'-0"
APPROVED
REVISIONS

SHEET NO.
M-1.1-24

A#-03-123199
FILE # 15-6



STRUCTURAL SECTION AT ENDWALL
SCALE: 1/4" = 1'-0"



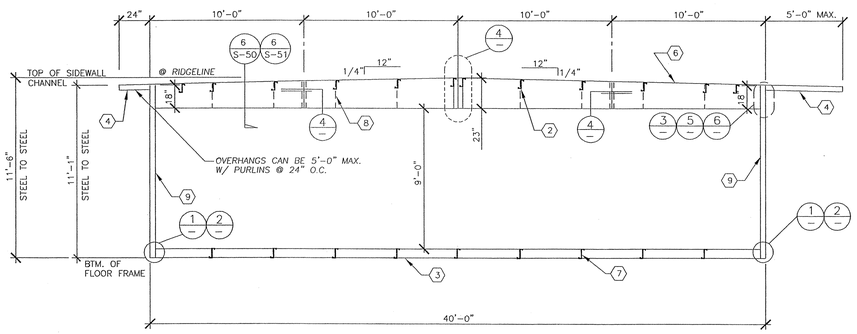
MODLINE SECTION
W/ DOUBLE SLOPE TRUSS, SEE SPECIFIC TRUSS DRAWING PER TABLE #1 FOR DETAILED INFORMATION
SCALE: 1/4" = 1'-0"

TRUSS TABLE #1	
SHEET #	TRUSS DESCRIPTION
S-60	DUAL SLOPE 20 PSF ROOF LOAD, 80 MPH WIND LOAD
S-70	DUAL SLOPE 30 PSF ROOF LOAD, 80 MPH WIND LOAD

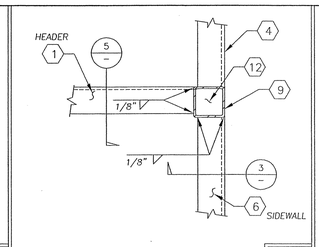
KEY NOTES

1. C 3 1/2" x 18" x 12 Ga. RFC STEEL ROOF HEADER.
2. L 6" x 2 X 14 Ga. STEEL ROOF JOIST FOR 20 PSF ROOF. OR 7 X 1 1/2 X 11 GA. FOR 30 PSF ROOF.
3. C7" X 9.8 LB. PERIMETER FRAME
4. 10"x3"x12 GA. CHANNEL AT OVERHANG OR OPTIONAL L 4"x3"x3/8" PURLIN & OUTRIGGER AT 20 PSF ROOF OR L 5"x3"x3/8" OUTRIGGER & L 4"x3"x3/8" PURLIN AT 30 PSF ROOF
5. 5/8" MACHINE BOLT @ MODULE CONNECTION LOCATIONS
6. TAPERED 10 GA. CHANNEL SECTION, BEAM. 18" x 23" x 18" x 3 1/2" x 10 GA..
7. L MEMBER – FLOOR JOIST.
8. 1/4" PLATE FULL HT. STIFFENER AT 4' O.C.
9. STEEL COLUMN – USE 3 1/2" x 3 1/2" x 1/4" TUBE AT CORNERS.
10. NOT USED.
11. 1/4" CAP PLATE.
12. 1/4" PLATE FITTED INSIDE TUBE COLUMN AND WELD IN PLACE.

BUILDING HEIGHT NOTE:
THE BUILDING HEIGHTS SHOWN ON THESE DETAILS DO NOT INCLUDE THE PLYWOOD ROOF DECK OR THE FINISH ROOFING MATERIALS.

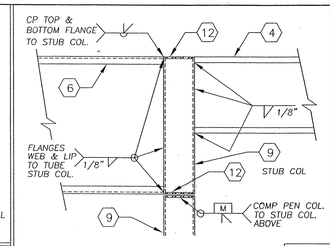


STRUCTURAL SECTION AT SIDEWALL
SCALE: 1/4" = 1'-0"



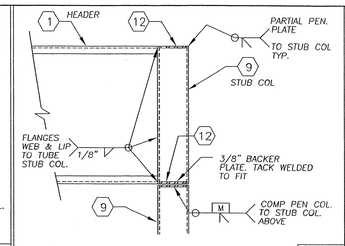
POST CONN. @ ROOF
SCALE: 1 1/2" = 1'-0"

8 6



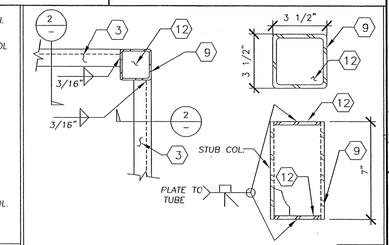
POST CONN. @ ROOF
SCALE: 1 1/2" = 1'-0"

5



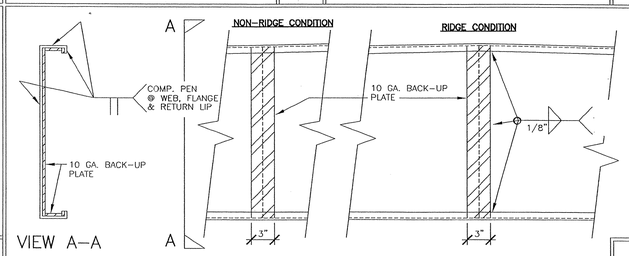
POST CONN. @ ROOF
SCALE: 1 1/2" = 1'-0"

3



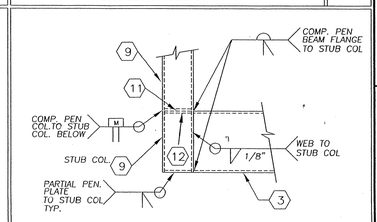
CORNER CONN. @ FLOOR
SCALE: 1 1/2" = 1'-0"

1



LIGHT GA. BEAM SPLICE (N.T.S.)

4



POST CONN. @ FLOOR
SCALE: 1 1/2" = 1'-0"

2

9 7

PROJECT:
MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:
RIGID FRAME SECTION & DETAILS
DUAL SLOPE W/ MODLINE TRUSS
WIND LOAD: 80 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #
DATE 12/1/02
DRAWN BY JAG
SCALE 1/4"= 1-0"
APPROVED
REVISIONS

SHEET NO.
S-5

MODULAR STRUCTURES INTERNATIONAL, INC.
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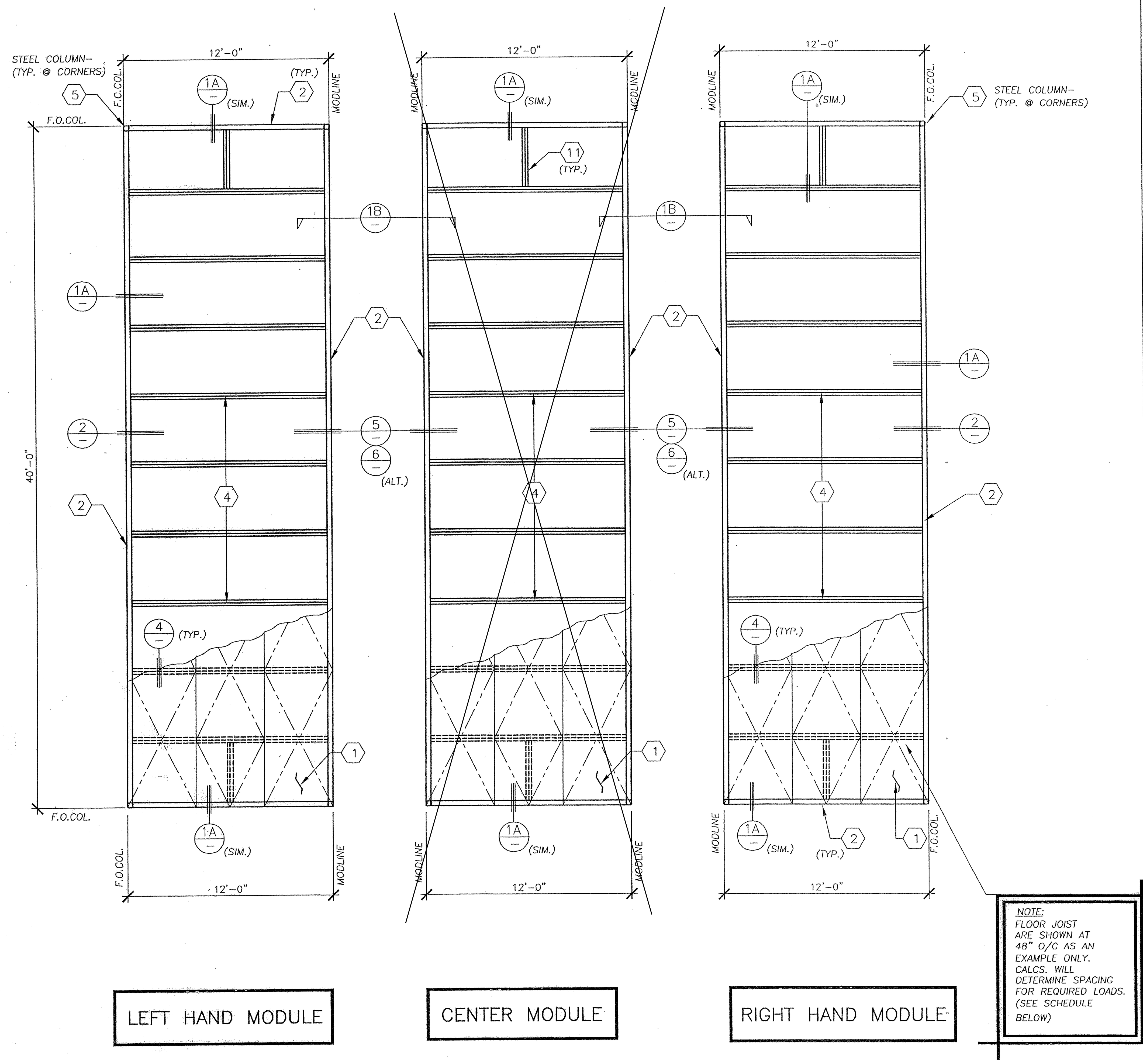
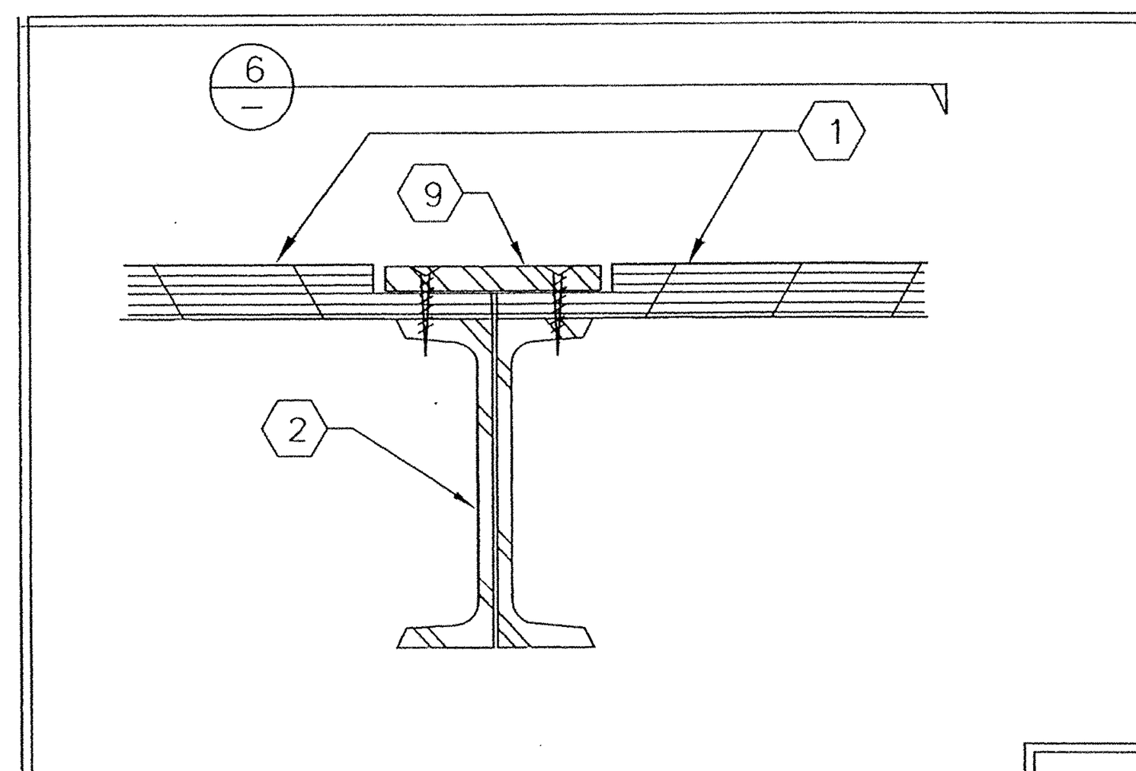
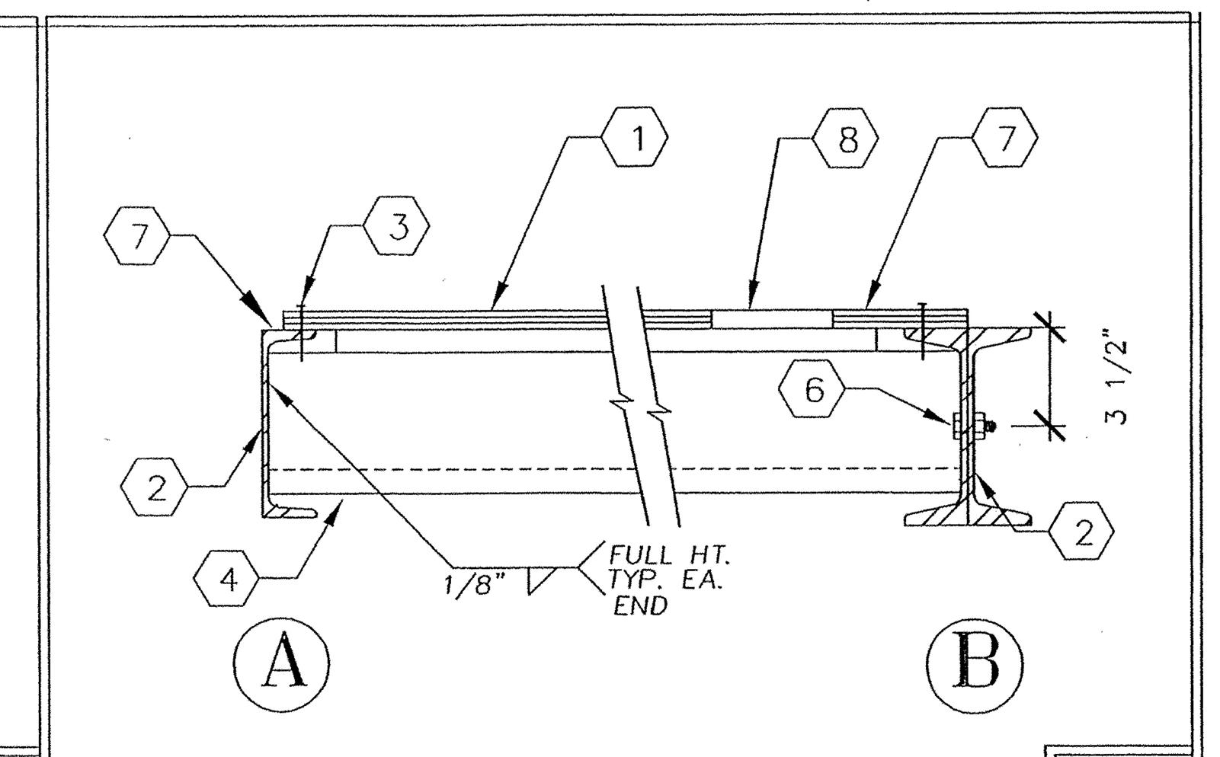
A#-03-123199
FILE # 15-6



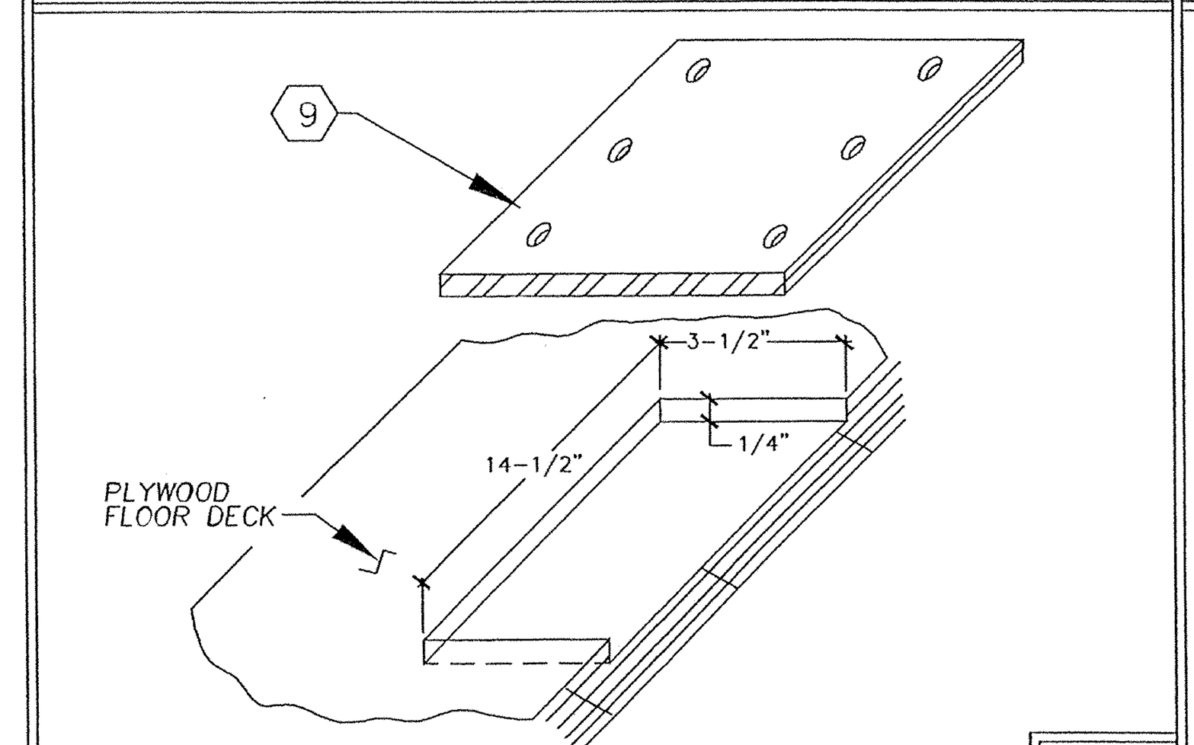
FLOOR FRAMING PLAN
SCALE 1/4" = 1'-0"



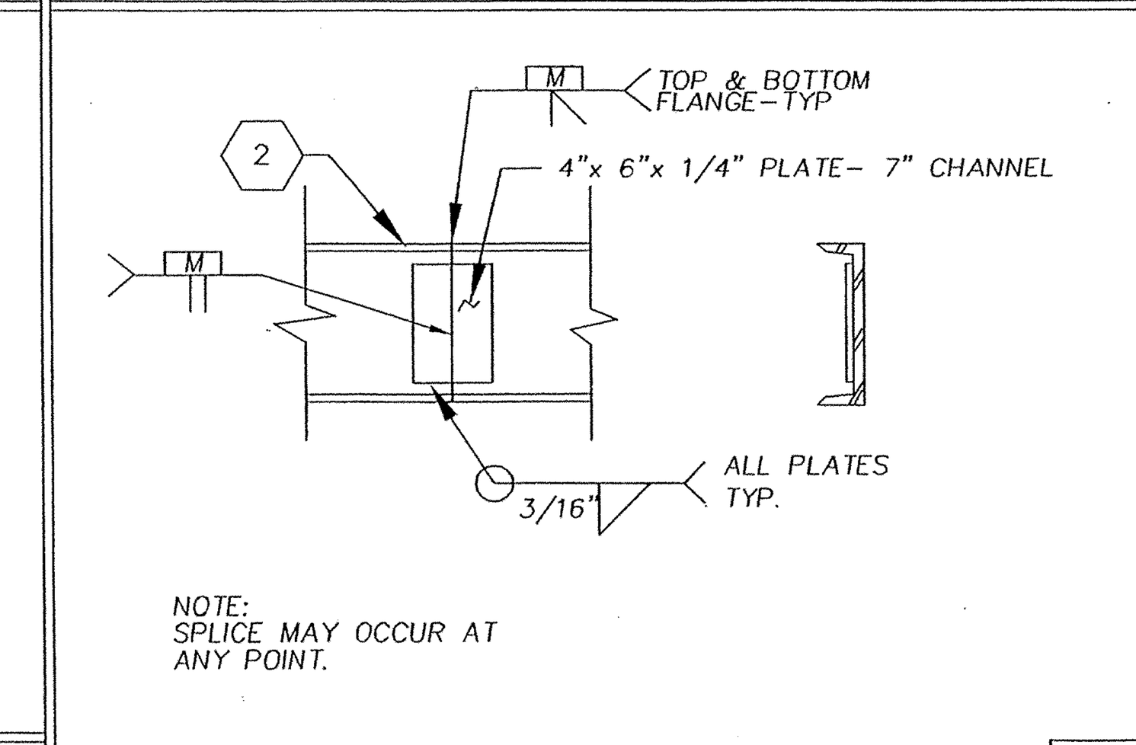
MOD CONN. @ FLOOR (5)
SCALE: 3" = 1'-0"



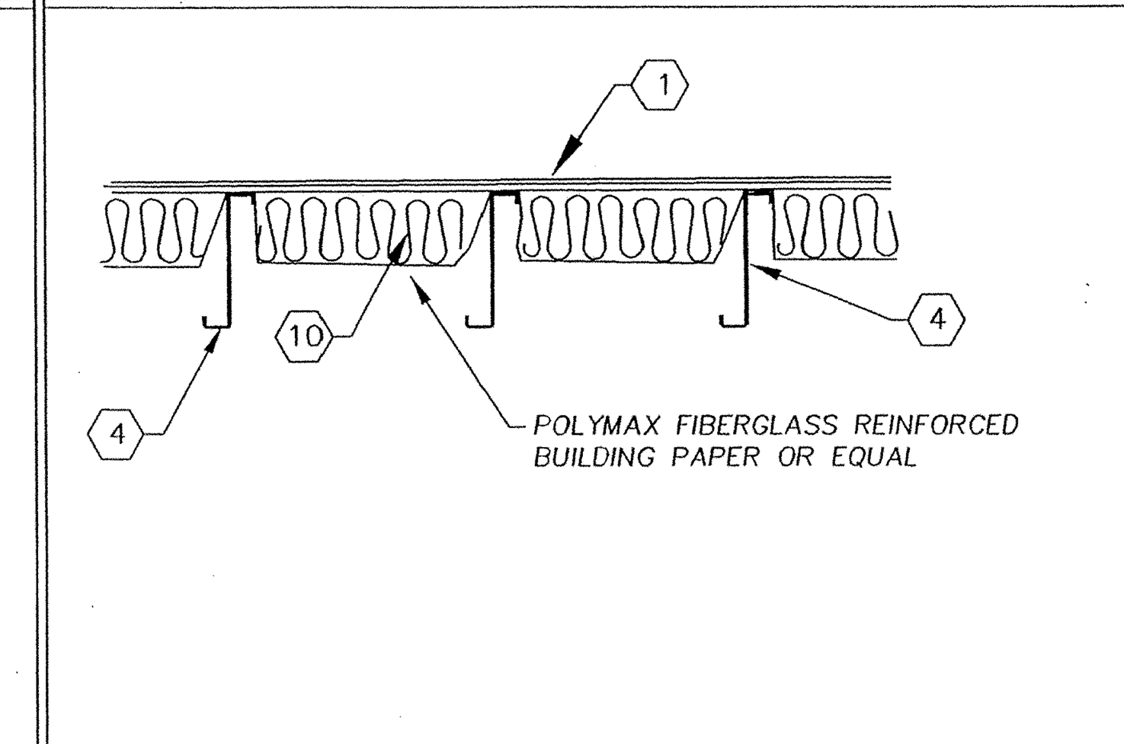
PERIMETER FLOOR (1)
SCALE: 1 1/2" = 1'-0"



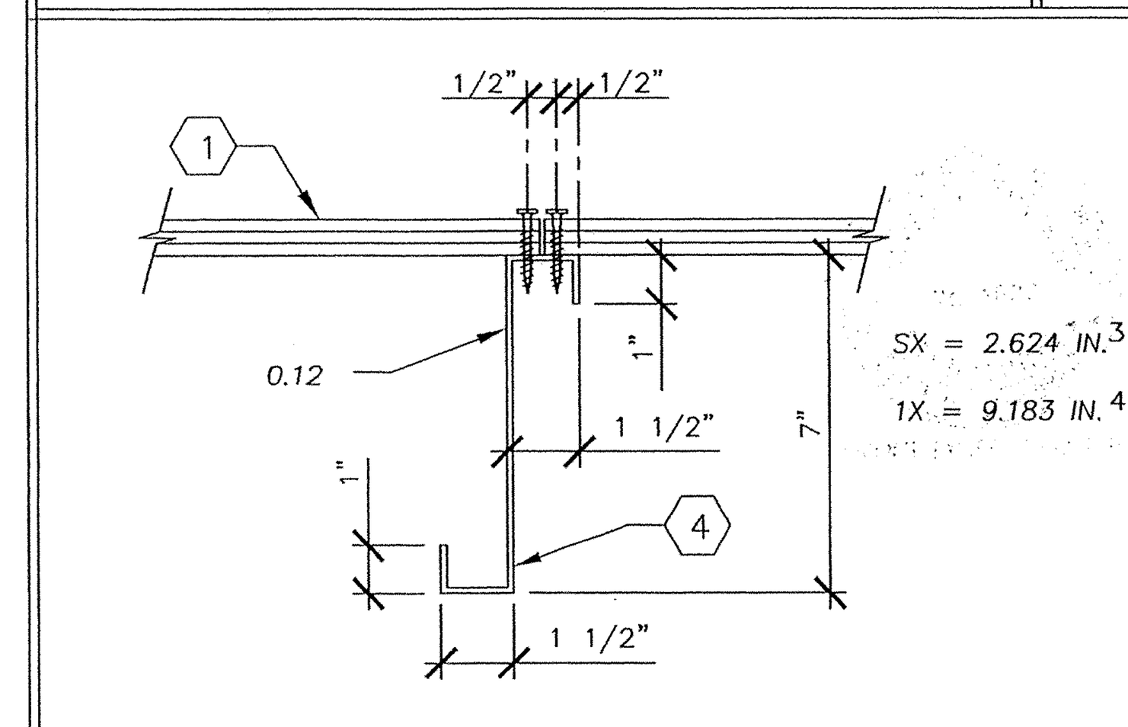
MOD LINE CONN.PLATE ALT. (6)
SCALE: N.T.S.



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



INSULATION @ FLOOR (3)
SCALE: N.T.S.



FLOOR JOIST (4)
SCALE: 3" = 1'-0"

KEY NOTES

1. PLYWOOD FLOOR SHEATHING – 1 1/8" A.P.A. RATED OR EQUAL. P.S. 1-95 T & G EDGES, 48" SPAN RATING; ATTACH TO STEEL FRAMING WITH .170/.192 PIN OR #10-24x1 3/4" SELF TAP SCREW @ 6" O.C. BOUNDARY & EDGES AND 10" O.C. FIELD.
   NOTE:
   PROVIDE FIELD NAILING @ 6" O.C. WHERE FLOOR JOISTS ARE AT 48" O.C.
2. C7" x 9.8 LB. PERIMETER FRAME
3. 0.145"ø SHOT PIN @ 6" O.C. PLYWOOD DECK TO PERIMETER CHANNEL
4. FLOOR JOIST 'Z' MEMBER. SEE SCHEDULE BELOW.
5. STEEL CORNER COLUMN.
6. 5/8" MACHINE BOLT AT 10'-0" O.C. @ MODULE CONNECTION.
7. AT MODULE JOINT TAKE PLYWOOD TO EDGE OF CHANNEL. AT PERIMETER, HOLD PLYWOOD BACK AS INDICATED.
8. 5" DIA. HOLE AT BOLT LOCATION. (OPTIONAL)
9. 6" x 14" x 12 Ga. PLATE WITH (6) #10-34 x 1 3/4" FLAT HEAD SELF TAP SCREWS INTO STEEL CHANNEL FLOOR FRAME @ 10' O.C.
10. R-11 INSULATION ON 'SEAL TITE' TYPE HW POLYMAX UNDERBELLY OR EQUAL WITH BIDIRECTIONAL POLYESTER FIBERS.
11. 7"x1 1/2"x11 GA. 'Z' MEMBER @ MIDSPAN.

FLOOR JOIST SCHEDULE

LOAD	JOIST	SPACING
50 PSF	Z 7x1 1/2x11 GA.	48" O.C.
~~50+20 PSF~~	Z 7x1 1/2x11 GA.	~~32" O.C.~~
100 PSF	~~Z 7x1 1/2x11 GA.~~	24" O.C.
~~125 PSF~~	Z 7x1 1/2x11 GA.	~~16" O.C.~~

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DATE SIGNED JUL 15 2003
LICENSE EXPIRES 6-30-2004

ARCHITECT STAMP

DATE SIGNED MAY 21 2003

STRUCTURAL ENGINEER STAMP

STATE AGENCY STAMP

STATE AGENCY STAMP

RECEIVED JUL 24 2003 WESTERN DIVISION

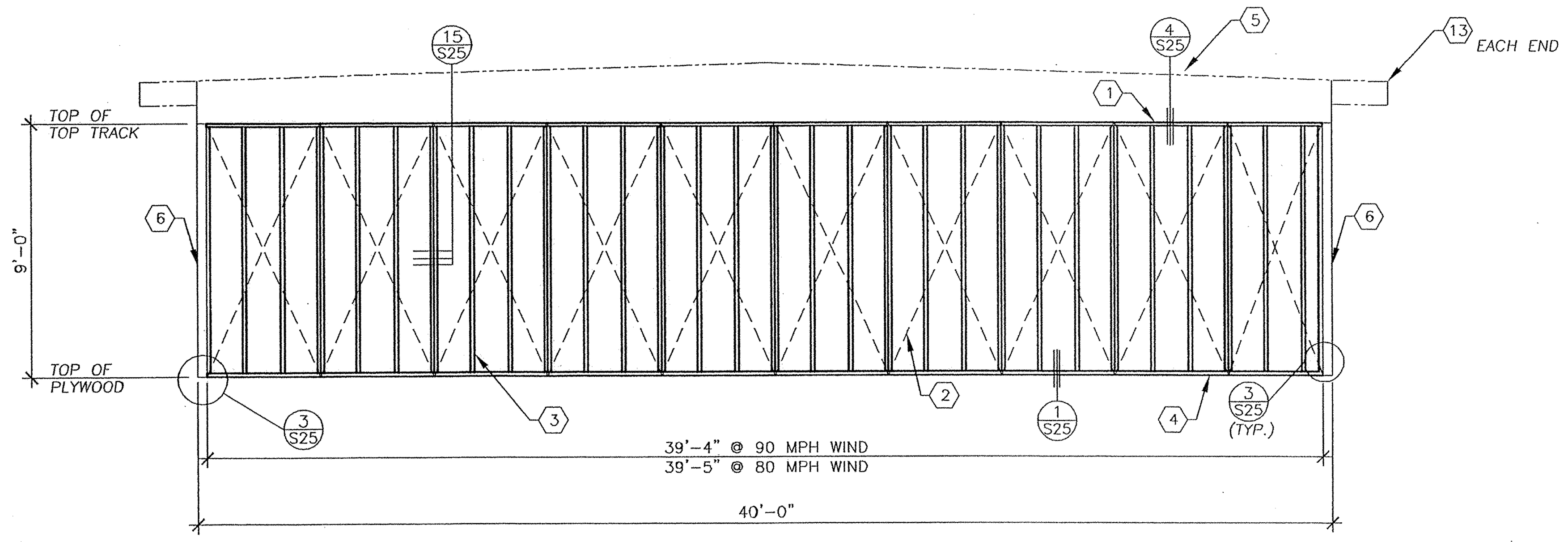
PROJECT:
MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:
FLOOR FRAMING PLAN AND DETAILS FOR PLYWOOD FLOOR
WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #
DATE 12/1/02
DRAWN BY JAG
SCALE AS NOTED
APPROVED
REVISIONS

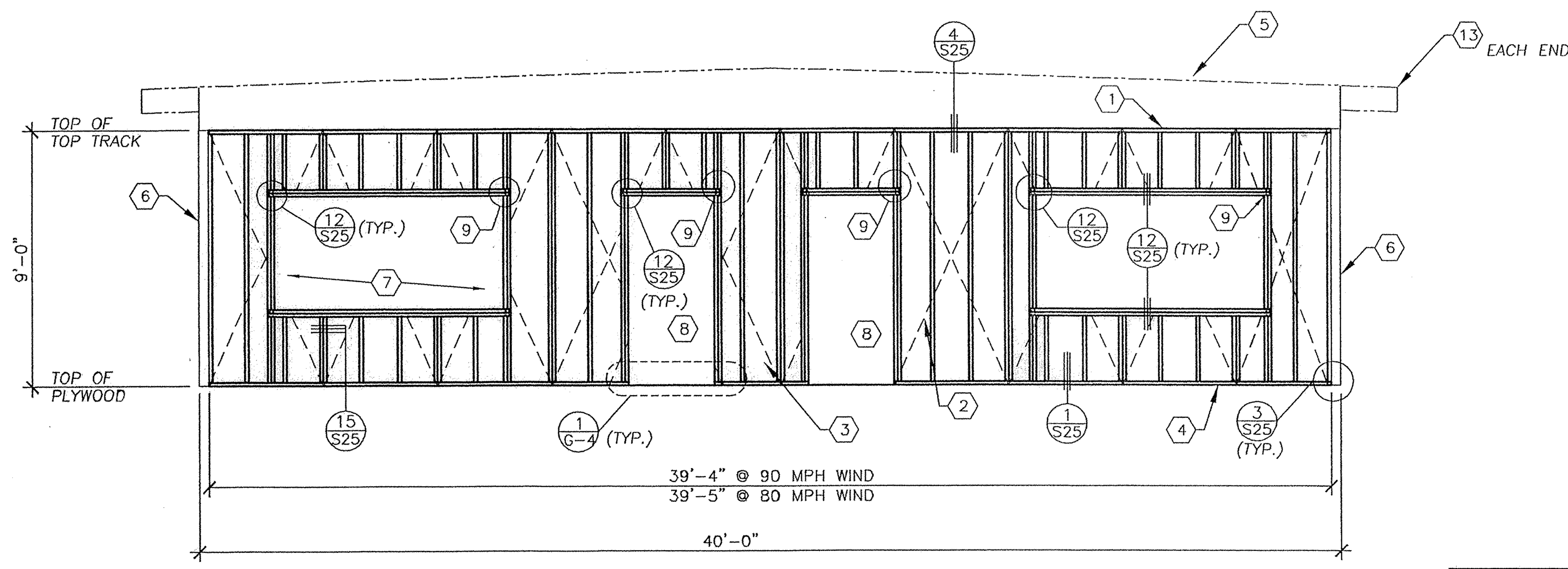
SHEET NO.
S-10

A#-03-123199
FILE # 15-6



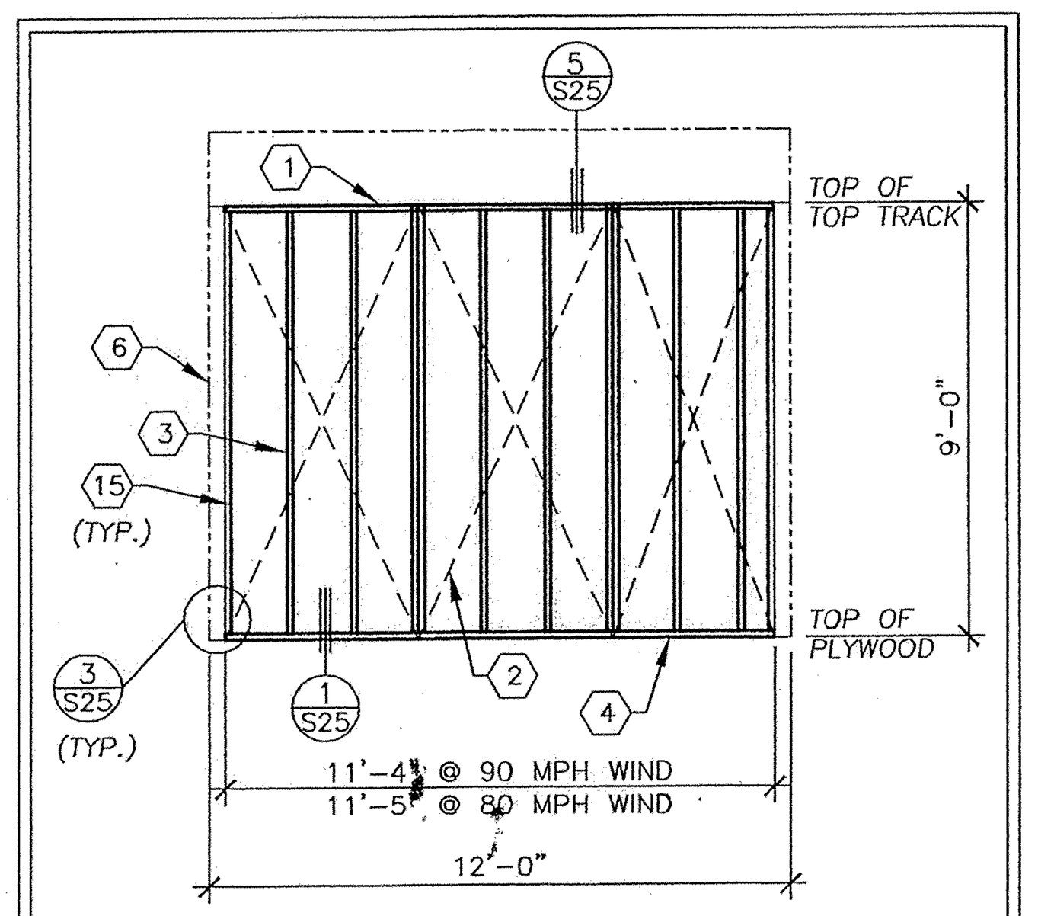
TYPICAL SIDEWALL W/NO OPNG'S
SCALE: 1/4" = 1'-0"

NOTE:
DOOR AND WINDOW LOCATIONS CAN BE LOCATED ANY WHERE IN SIDE WALL. FOR EXACT LOCATION OF DOORS, WINDOWS AND HVAC OPENINGS SEE FLOOR PLAN.

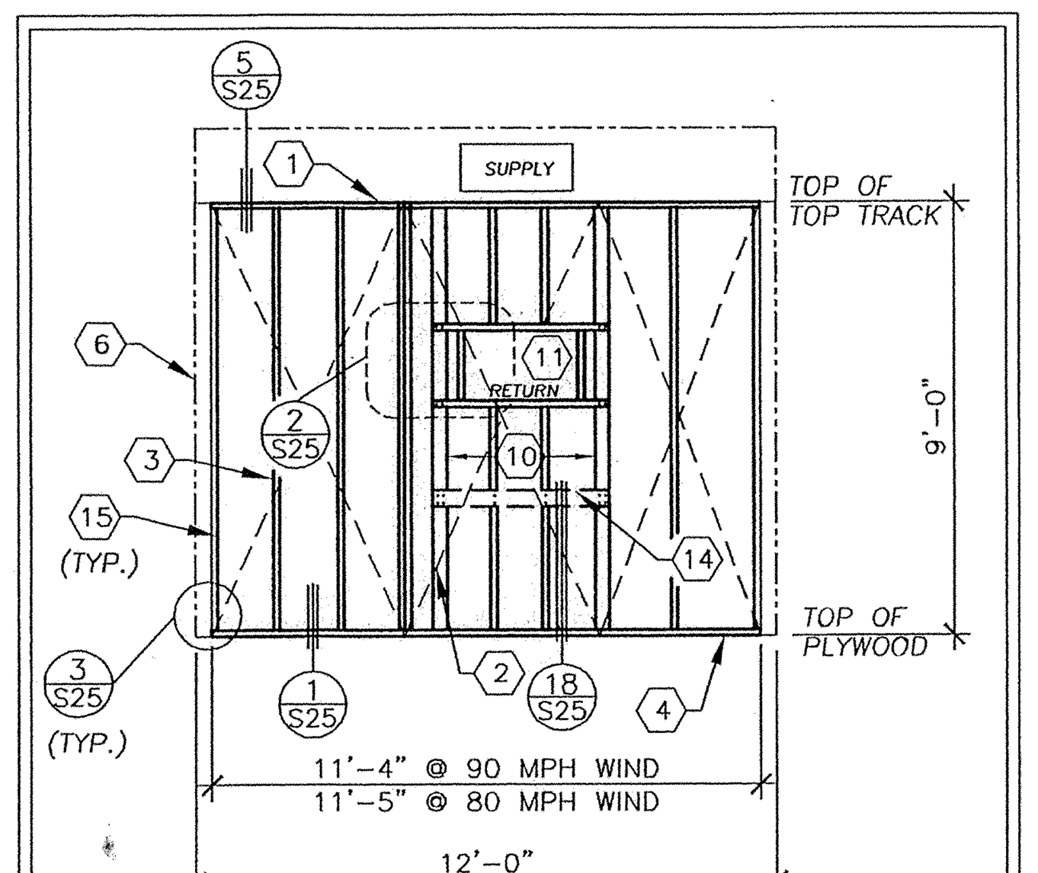


TYPICAL SIDEWALL W/DOORS & WINDOWS
SCALE: 1/4" = 1'-0"

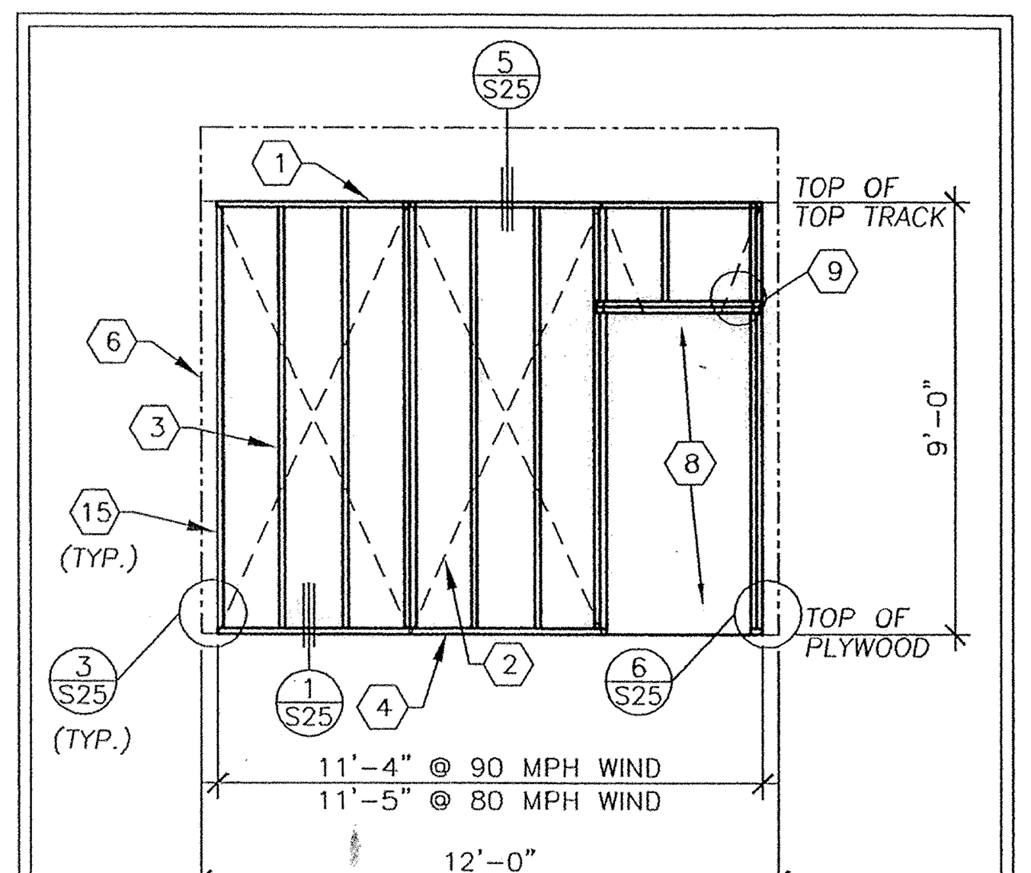
NOTE:
DOOR AND WINDOW LOCATIONS CAN BE LOCATED ANY WHERE IN SIDE WALL. FOR EXACT LOCATION OF DOORS, WINDOWS AND HVAC OPENINGS SEE FLOOR.



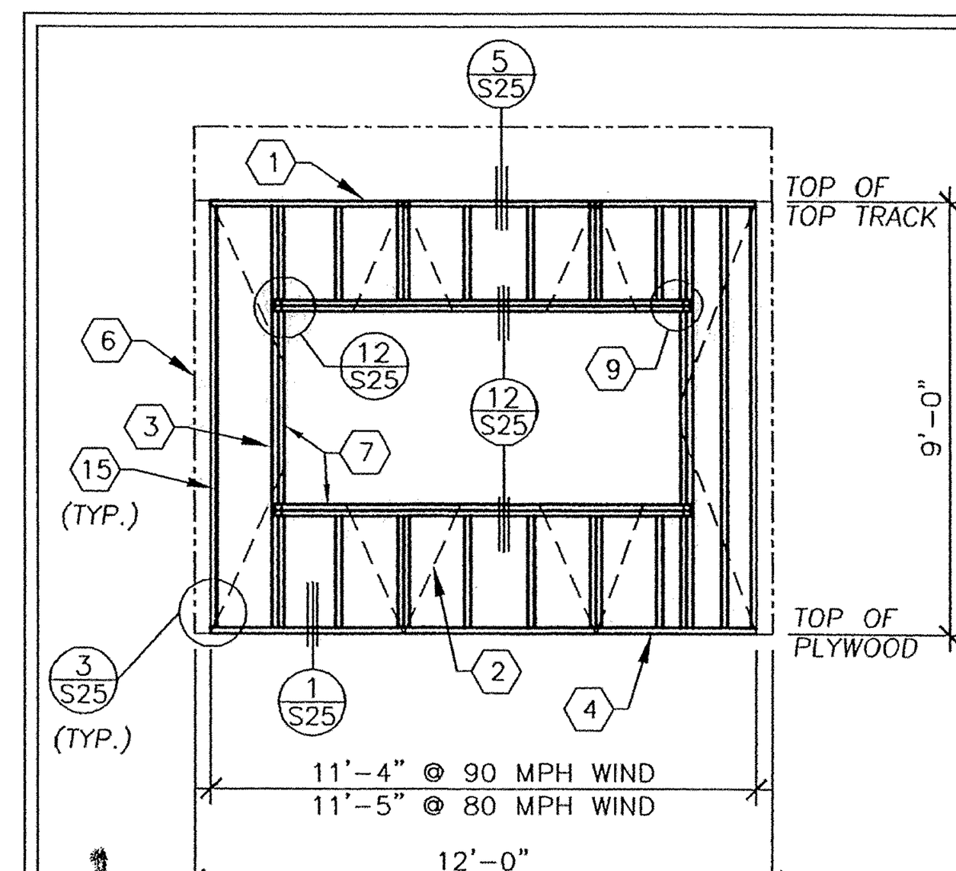
TYPICAL ENDWALLS
SCALE: 1/4" = 1'-0"



ENDWALLS W/AC UNIT
SCALE: 1/4" = 1'-0"



ENDWALLS W/DOOR
SCALE: 1/4" = 1'-0"



ENDWALLS W/WINDOW
SCALE: 1/4" = 1'-0"

KEYNOTES

1. CONTINUOUS 3 1/2" x 20 GA. TOP TRACK.
2. PLYWOOD SIDING/SHEATHING
   NAIL SIDING WITH CORROSION RESISTANT
   8d BOX NAILS @ 6" BOUNDARY & EDGES, 12" FIELD.
3. 3 1/2" x 20 GA. STUDS @ 16" O.C.
4. CONTINUOUS 3 1/2" x 20 GA. BTM. TRACK.
5. STEEL FRAME– SEE SHEET S-50 – S-51 "STRUCTURAL SECTIONS" FOR MEMBER TYPES AND SIZES.
6. STEEL CORNER COLUMN.
7. FRAME FOR 8040 WINDOW USE (2) FULL HEIGHT 3 1/2" x 20 GA. JAMB STUDS. (2) 3 1/2" x 20 GA. TRACKS FOR HEADER. (2) 3 1/2" x20 GA. TRACKS FOR WINDOW SILL.
8. FRAME FOR 3'-0"x 6'-8" DOOR. USE (2) FULL HEIGHT 3 1/2" x 20 GA. JAMB STUDS & (2) 3 1/2" x 20 GA. TRACKS FOR HEADER.
9. ATTACH HEADER OR SILL TO 3 1/2" x 20 GA. STUD WITH #8 x 1/2" SELF TAP SCREWS. AT CORNERS OF ALL OPENINGS.
10. 4x4 D.F. POST
11. FRAME FOR A/C UNIT.
12. NOT USED
13. OVERHANG, (5'-0" MAX.)
14. NOTCH (1) PC. OF 3 1/2" x 20 GA. TRACK AROUND STUDS TO PROVIDE BLKG..
15. 2 x 4 SHIM LOCATED BETWEEN 4 x 4 STL. POST AND FIRST 3 1/2" x 20 GA. STUD @ OUTSIDE OF BLDG.

WALL FRAMING NOTES FOR STUCCO SIDING OPTION:

STUDS TO BE 3 1/2" x 20 GA. @ 16" O.C.

4'-0" WALL OPENINGS – (1) 3 1/2" x 20 GA. TRACK AS HEADER AND (2) 3 1/2" x 20 GA. FULL HEIGHT JAMB STUDS.

8'-0" WALL OPENINGS – (2) 3 1/2" x 20 GA. TRACK AS HEADER AND (3) 3 1/2" x 20 GA. FULL HEIGHT JAMB STUDS.

NOTE:
FOR EXACT LOCATION OF DOORS, WINDOWS AND HVAC OPENINGS, SEE FLOOR PLAN.

DATE SIGNED JUL 15 2003

DATE SIGNED MAY 21 2003

LICENSE EXPIRES 6-30-2004

RECEIVED JUL 24 2003 WESTERN DIVISION

ARCHITECT STAMP

STRUCTURAL ENGINEER STAMP

STATE AGENCY STAMP

STATE AGENCY STAMP

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PHONE: (909) 788-3035 FAX: (909) 788-1523

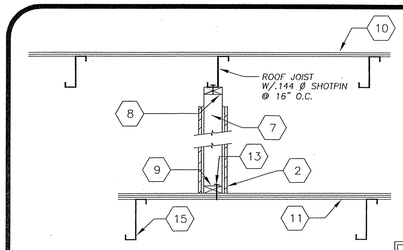
PROJECT:
MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:
EXTERIOR WALL FRAMING ELEVATIONS FOR STEEL STUDS
WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

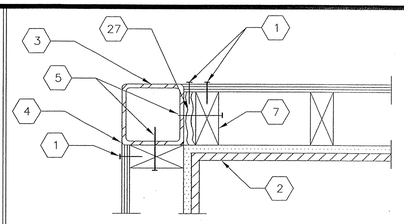
JOB #	
DATE	12/1/02
DRAWN BY	JAG
SCALE	1/4" = 1-0"
APPROVED	
REVISIONS	

SHEET NO.
S-21

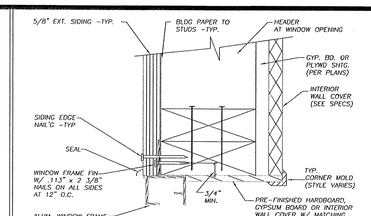
A#-03-123199
FILE # 15-6



INTERIOR WALL ATTACHMENT
SCALE: 1" = 1-0" — 16



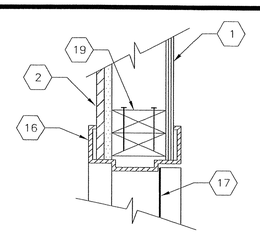
COLUMN AT CORNER
SCALE: 3" = 1-0" — 11



(SIM. AT SILL AND JAMB)

ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS, PER CBC 1606.8
WALL TO BE SMOOTH AND TO EXTEND 8" ABOVE HANDRAIL

WINDOW HEADER
SCALE: N.T.S. — 6

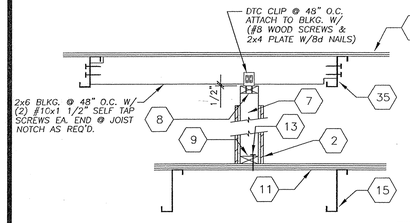


DOOR HEADER
SCALE: 3" = 1-0" — 1

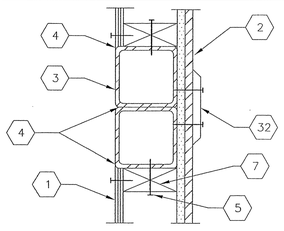
KEYNOTES

A. PROVIDE MOISTURE BARRIER BEHIND SIDING. USE ASPHALT SATURATED KRAFT, TYPE-1, GRADE 'D', STYLE-2 OR EQUAL ICBO NO. 4369

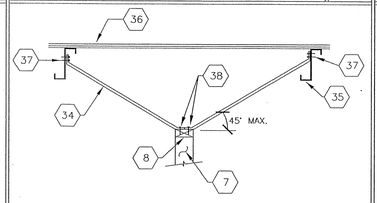
1. EXTERIOR PLYWOOD SIDING/SHEATHING - NAIL W/ CORROSION RESISTANT 8d BOX NAILS AT 6" O/C BOUNDARY & EDGES, AND 12" O/C FIELD.
2. TYPICAL INTERIOR FINISH
3. STEEL TUBE COLUMN
4. PAINTABLE ACRYLIC LATEX SEALANT (U.N.O.)
5. 'HILTI' DN57-P8 @ 24" O.C. (OR RAMSET 1514 SD) OR .144 PIN.
6. 2x4 TRIMMER
7. 2x4 FULL HT STUDS
8. 2x4 TOP PLATE
9. 2x4 BOTTOM PLATE
10. ROOF SHEATHING
11. FLOOR SHEATHING
12. GALV METAL FLASHING
13. 16d NAIL @ 16" O.C.
14. STEEL FLOOR CHANNEL
15. STEEL FLOOR JOIST @ 32" O.C. MIN. FOR PARTITION.
16. HOLLOW METAL DOOR FRAME
17. METAL DOOR
18. WATERPROOF MEMBRANE
19. HEADER - (2)-2x4 H.F. #2
20. DOOR BOTTOM W/ WEATHER STRIP
21. NOT USED
22. WALL MTD. A/C
23. 4x4 H.F. #2 POST (OR BETTER)
24. 2X6 BLOCK BETWEEN STUDS. ATTACH TO STUDS W/ (2) 16d BOX NAILS EA END
25. 11 GA x 24" LONG STEEL BOTTOM BRACKET
26. 3/8"ø x 2-1/2" LAG BOLT INTO BOTTOM BRACKET AND INTO 2x6 BLOCK W/ 1 1/2" MIN. EMBEDMENT
27. 3/4" SPACER-PLYWOOD
28. 16d BOX NAIL @ 8" O.C.
29. 1/4" FULL HT. STIFFENER
30. 1/2"ø MACHINE BOLT W/ WASHER @ 24" O.C. OR 0.145"ø SHOT PIN @ 18" O.C.
31. NOT USED
32. VINYL WRAPPED CLOSE-OFF BATT. ATTACH W/ #6x2 1/4" PAN HEAD WOOD SCREWS STAGGERED 24" O.C. AND (2) SCREWS TOP & BOTTOM.
33. 3 1/4"x1"x4'-6" L x 10 GA. CHANNEL TOP & BOTTOM.
34. 1/2"ø STEEL CONDUIT BRACE AT 8' O.C. MAX. STAGGERED.
35. ROOF PURLIN (SEE STRUCTURAL ROOF FRAME).
36. PLYWOOD ROOF DECK SHOWN, NOT REQ'D @ 22 GAUGE METAL ROOF DECK
37. #10 STSMS WAFER HD.
38. #10 WOOD SCREWS



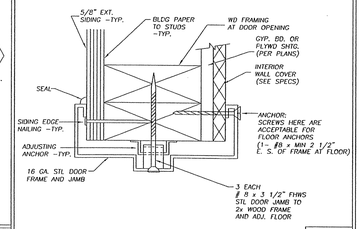
INTERIOR WALL ATTACHMENT
SCALE: 1" = 1-0" — 17



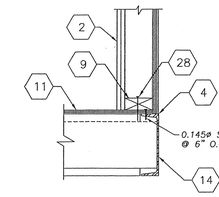
COLUMN AT MODULE LINE
SCALE: 3" = 1-0" — 12



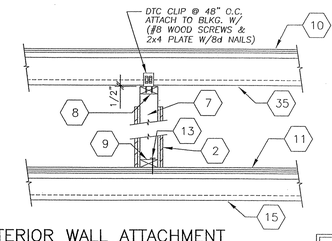
ALT. PARTITION CONN. PARELLEL
SCALE: 1" = 1-0" — 7



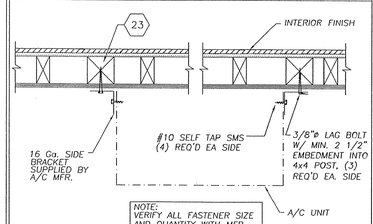
DOOR JAMB
SCALE: N.T.S. — 2



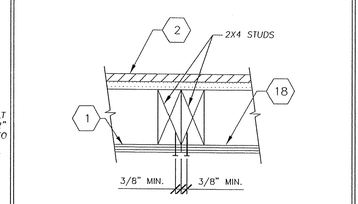
WALL @ FLOOR
SCALE: 1 1/2" = 1-0" — 18



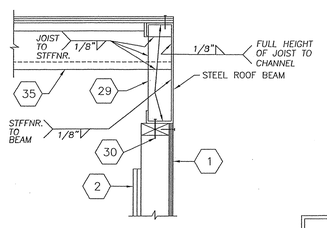
INTERIOR WALL ATTACHMENT PERPINDICULAR TO ROOF PURLINS
SCALE: 1" = 1-0" — 13



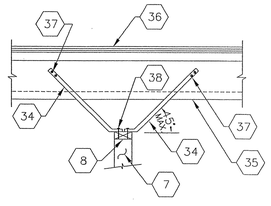
A/C MOUNTING DETAIL N.T.S.
8



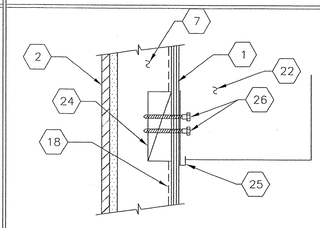
SIDING
SCALE: 3" = 1-0" — 3



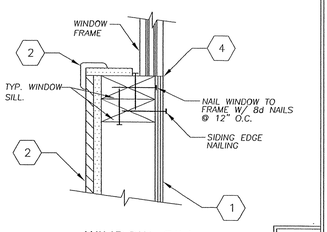
WALL @ ROOF BEAM
SCALE: 1 1/2" = 1-0" — 19



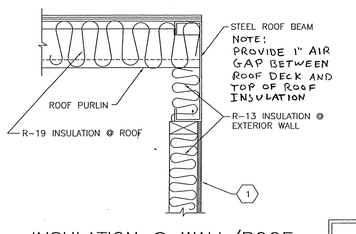
ALT. PARTITION CONN. PERP.
SCALE: 1 1/2" = 1-0" — 14



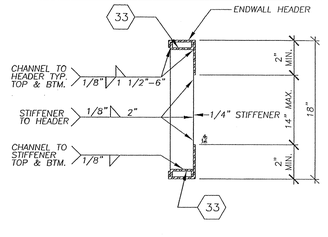
A/C @ BOTTOM
SCALE: 3" = 1-0" — 9



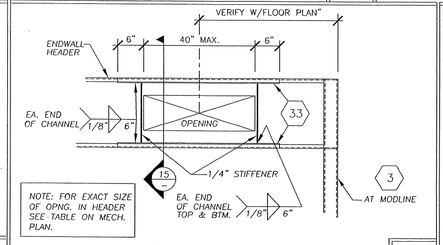
WINDOW SILL
SCALE: 3" = 1-0" — 4



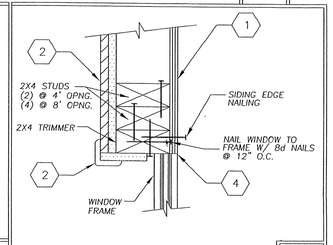
INSULATION @ WALL/ROOF
SCALE: 1 1/2" = 1-0" — 20



A/C OPENING IN HEADER
SCALE: 1 1/2" = 1-0" — 15



A/C OPENING IN HEADER
SCALE: 3/4" = 1-0" — 10



WINDOW JAMB
SCALE: 3" = 1-0" — 5

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ARCHITECT STAMP
DATE SIGNED JUL. 15 2003

DATE SIGNED MAY 21 2003
LICENSE EXPIRES 6-30-2004
STRUCTURAL ENGINEER STAMP

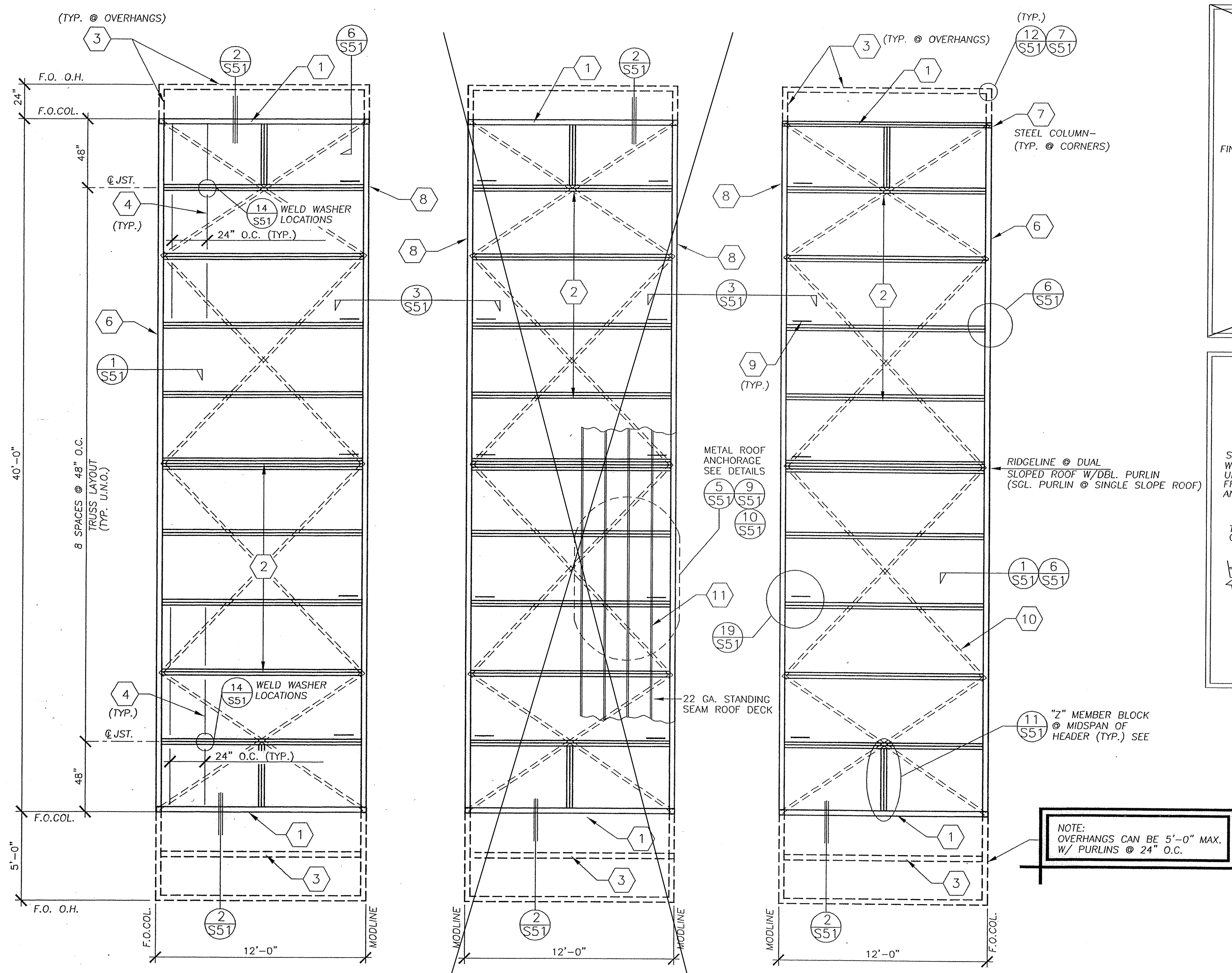
PROJECT:
MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:
WOOD STUD WALL FRAMING DETAILS
WIND LOAD: 80 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #
DATE 12/1/02
DRAWN BY JAG
SCALE AS NOTED
APPROVED
REVISIONS

SHEET NO.
S-30

A#-03-123199
FILE # 15-6

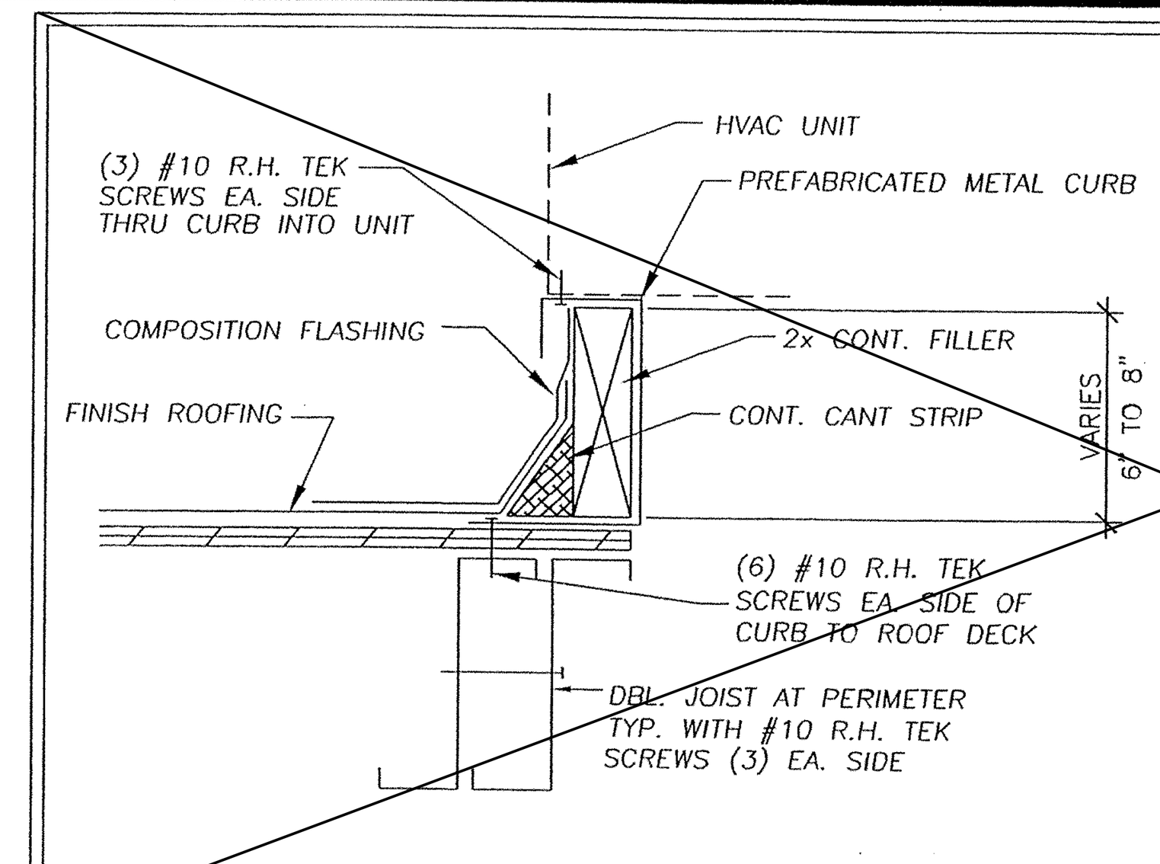


LEFT HAND MODULE
SCALE 1/4" – 1'-0"

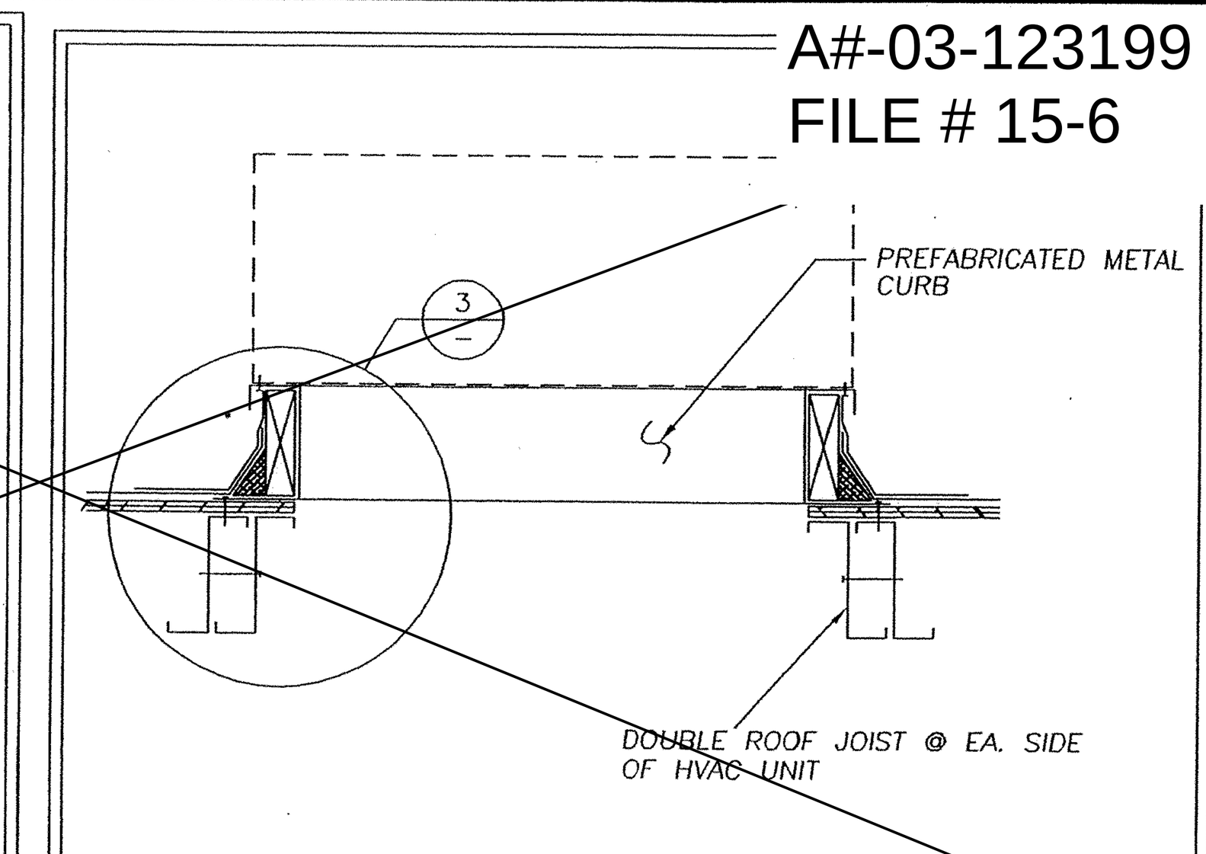
CENTER MODULE
SCALE 1/4" – 1'-0"

RIGHT HAND MODULE
SCALE 1/4" – 1'-0"

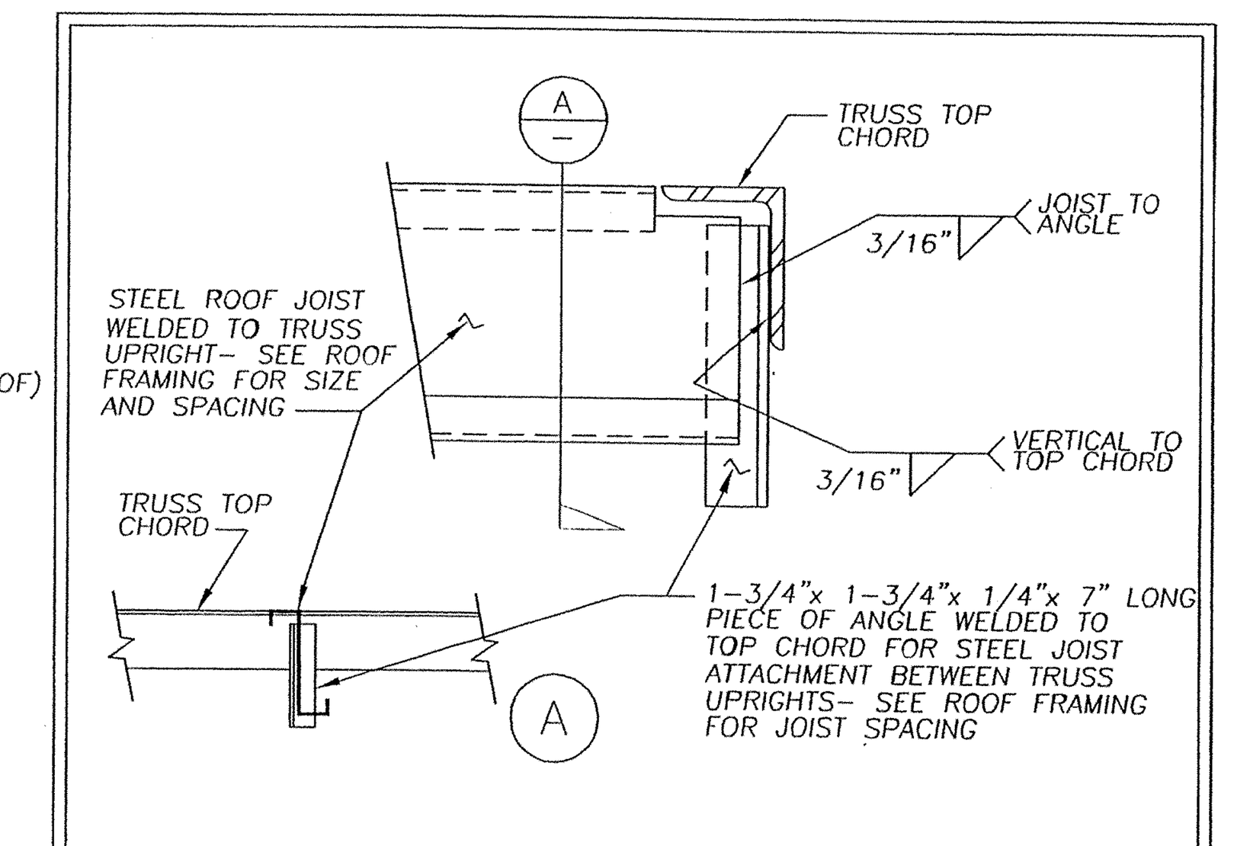
ROOF FRAMING PLAN METAL ROOF OPTION
SCALE 1/4" – 1'-0"



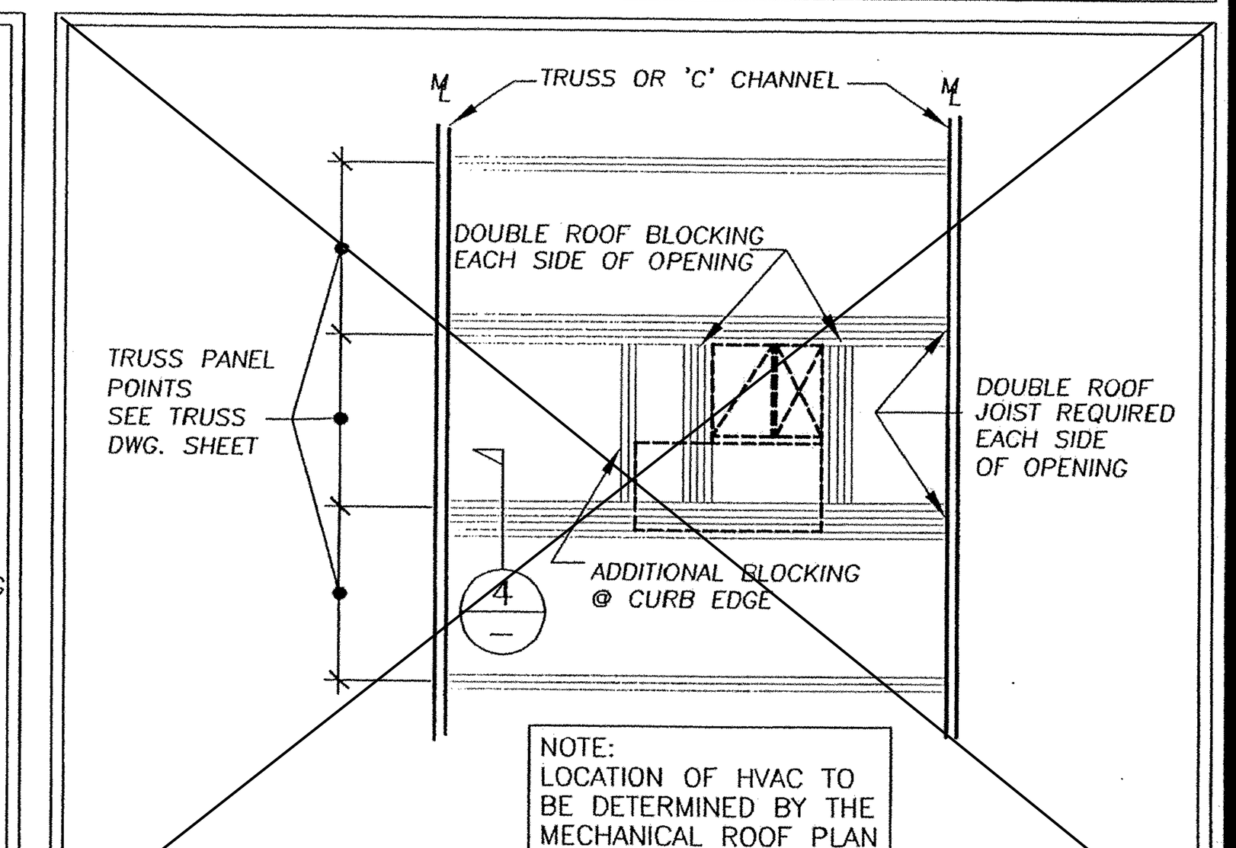
HVAC CURB DETAIL #3



HVAC MOUNTING DETAIL #1



STEEL JOIST TO TRUSS DETAIL #4



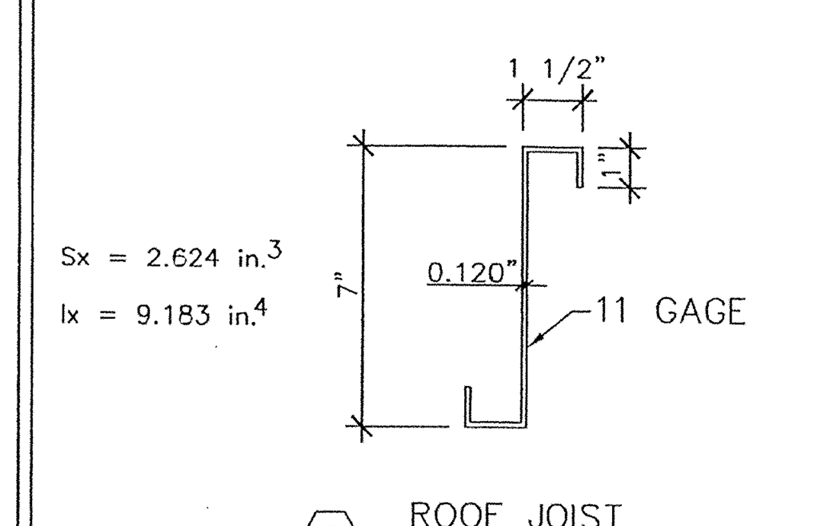
ROOF MOUNT HVAC OPENING #2

KEY NOTES

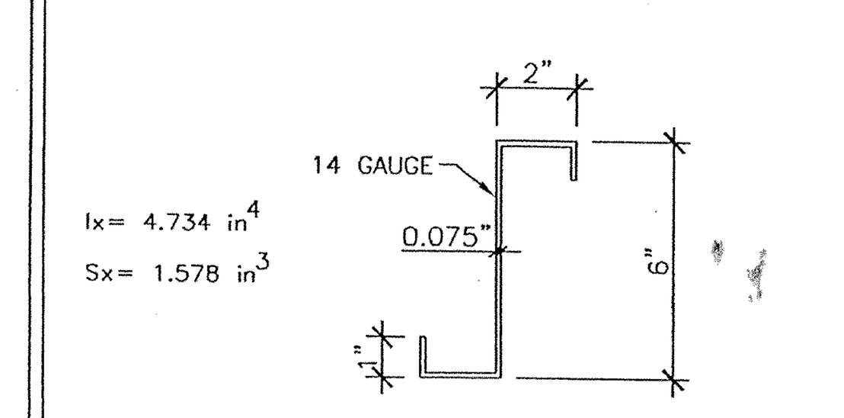
1. [18"x3 1/2"x 12 GA. RFC STEEL ROOF HEADER.
2. ⅂ 6" x 2 x 14 Ga. STEEL ROOF JOIST @ 48" O.C. FOR 20 PSF ROOF OR 7 x 1 1/2 x 11 GA. @ 48" O.C. FOR 30 PSF ROOF.
3. 10"x12 GA. CHANNEL @ ROOF OVERHANGS. L 4"x3"x3/8" PURLIN & OUTRIGGER AT 20 PSF ROOF OR L 5"x3"x3/8" OUTRIGGER & L 4"x3"x3/8" PURLIN AT 30 PSF ROOF
4. WIRE OR STRAP ATTACHED TO ROOF JOISTS FOR INSULATION SUPPORT AT 24" O.C.
5. NOT USED.
6. 18"x23"x18"x3 1/2"x10 GA. TAPERED CHANNEL SECTION BEAM AT DOUBLE SLOPE ROOF AND 18"x28"x3 1/2"x 10 GA. AT SINGLE SLOPE ROOF.
7. STEEL CORNER COLUMN SEE RIGID FRAME SECTION FOR SIZE.
8. STEEL TRUSS. (SEE SHTS. S-60, S-60.1, S-70, & S-70.1)
9. STEEL TRUSS BRACES AT 8' O.C. TO BOTTOM CHORD OF TRUSSES L 1 1/2"x1 1/2"x 3/16"
10. 2" x 20 GAUGE METAL STRAPS ONLY FOR 22 GA. METAL ROOF OPTION. W/ 3" MIN. OF 1/8" FILLET WELD EACH END TO ROOF BEAM OR HEADER.
11. 22 GA. STANDING SEAM ROOF DECK. SEE DETAIL #9 ON SHEET S-51 FOR ROOF PANEL SECTION.

ROOF JOIST SCHEDULE

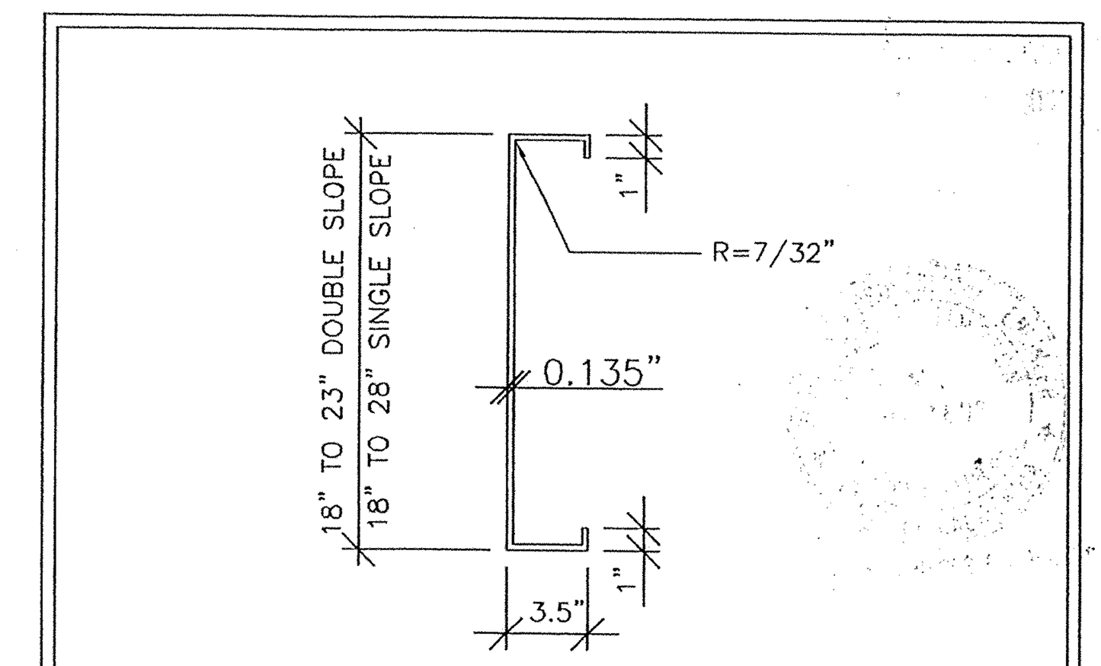
LOAD	PURLIN	SPACING
20 PSF	⅂ 6x14 GA.	48" O.C.
30 PSF	⅂ 7x11 GA.	48" O.C.



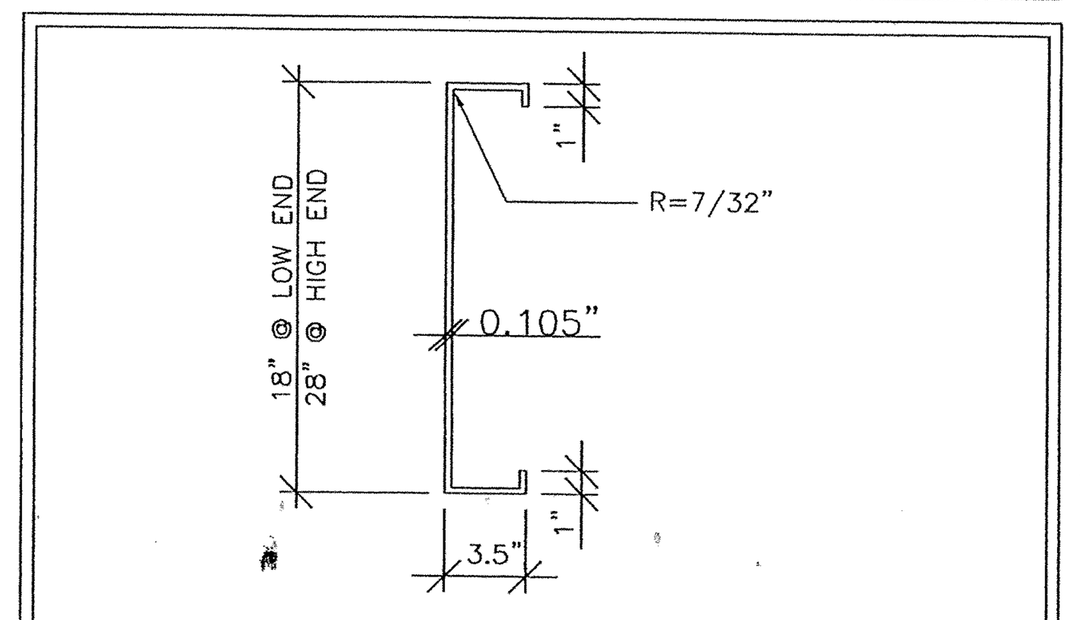
ROOF JOIST
⅂ 7"x1 1/2"x11 GA. (ALTERNATE)



ROOF JOIST
⅂ 6"x2"x14 GA.



ROOF BEAM
18"/23"/18" x 3 1/2" x 10 GA. CHANNEL (BEAM) @ DOUBLE SLOPE
OR 18"/28" x 3 1/2" x 10 GA. CHANNEL (BEAM) @ SINGLE SLOPE



ROOF HEADER
18" x 3 1/2" x 12 GA. CHANNEL (HDR) @ DOUBLE SLOPE
28" x 3 1/2" x 12 GA. CHANNEL (HDR) @ SINGLE SLOPE

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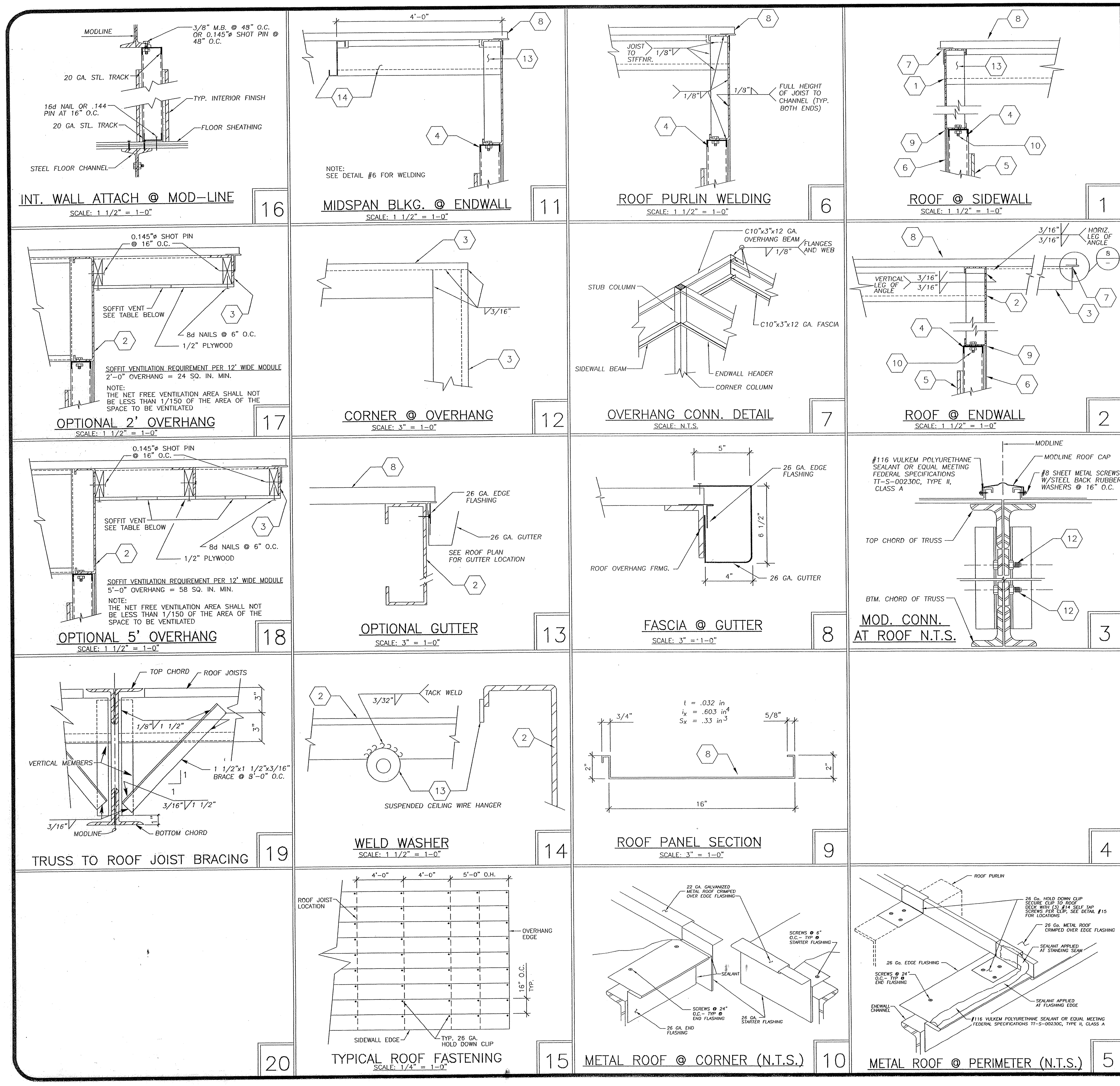
PROJECT:
MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:
ROOF FRAMING PLAN W/ 22 GA. METAL DECK
WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #
DATE 12/1/02
DRAWN BY JAG
SCALE AS NOTED
APPROVED
REVISIONS

SHEET NO.
S-41



A#-03-123199
FILE # 15-6

KEYNOTES

1. 10 GA. CHANNEL @ ROOF SIDEWALL
   DUAL SLOPE OPTION: 18/23/18x3 1/2x10 GA.
   SINGLE SLOPE OPTION: 18/28/18x3 1/2x10 GA.
2. 12 GA. CHANNEL @ ROOF HEADER
   DUAL SLOPE OPTION: 18"x3 1/2"x 12 GA.
   SINGLE SLOPE OPTION: 18/28x3 1/2x 12 GA.
3. OVERHANG @ ENDWALL, SEE ROOF PLAN FOR SIZE AND SHT. G-2 FOR OVERHANG MATERIAL
4. 20 GA. STL. TRACK CONT. TOP PLATE- ATTACH TO CHANNEL W/ 0.145ø SHOT PIN AT 18" O.C. OR 3/8" BOLT AT 24" O.C. MIN.
5. INTERIOR FINISH - SEE SHEET G-2
6. TYP. EXTERIOR FINISH - SEE SHEET G-2
7. 26 GA. FLASHING
8. STEEL ROOF DECK - 22 GA. ROLL FORMED STANDING SEAM ROOF DECK. SEE DETAIL #9 ROOF PANEL SECTION. SEE DETAILS #5 AND #10 FOR ATTACHMENT SPECIFICATIONS.
9. PAINTABLE ACRYLIC LATEX SEALANT (U.N.O.)
10. 1/2ø" MACHINE BOLT W/ WASHER @ 24" OC MIN. OR 0.145ø SHOT PIN AT 18" O.C.
11. WELD WASHER - 1-3/8"x 3/32" WITH 9/16" HOLE. WELD TO UPPER CHANNEL FLANGE.
12. 5/8" MACHINE BOLT AT 8'-0" O.C. @ MODULE CONNECTION.
13. 1/4" FULL HEIGHT STIFFENER @ 4'-0" O.C.
14. 6"x 14 GA. ROOF JOIST OR BLKG.

DATE SIGNED JUL 15 2003

DATE SIGNED MAY 21 2003

ARCHITECT STAMP

STRUCTURAL ENGINEER STAMP

RECEIVED JUL 24 2003 WESTERN DIVISION

STATE AGENCY STAMP

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4-104778

STATE AGENCY STAMP

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MODULAR STRUCTURES INTERNATIONAL, INC.
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PHONE: (909) 788-3035 FAX: (909) 788-1323

PROJECT:
MODULAR CLASSROOM BUILDING

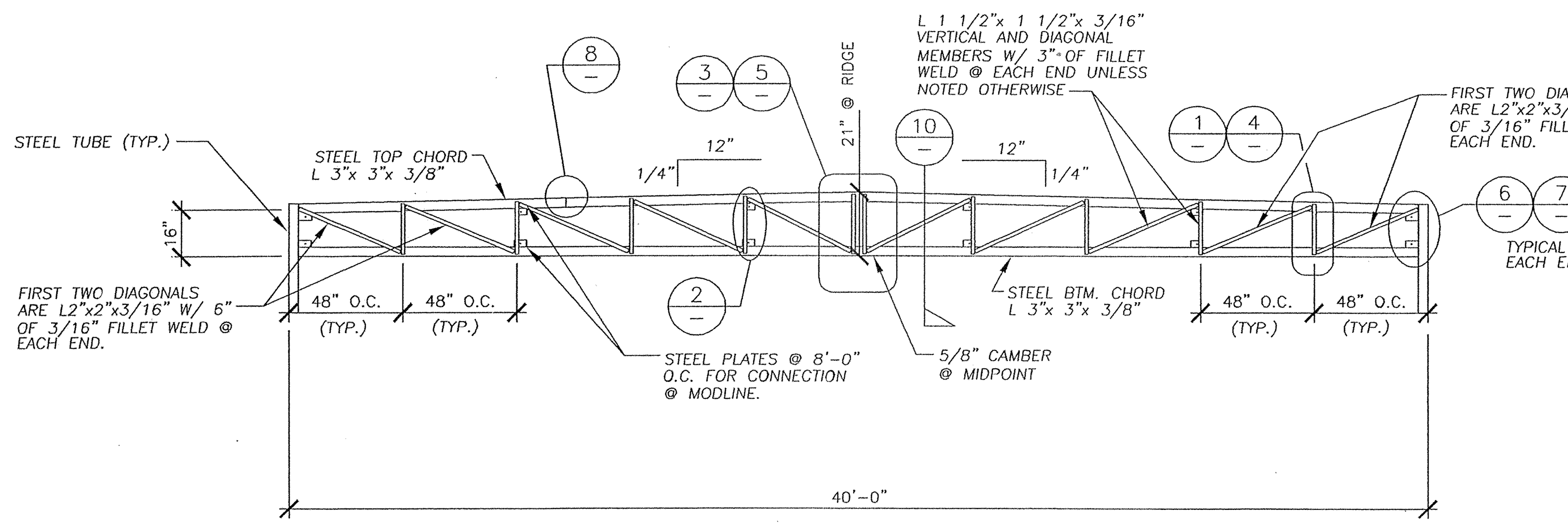
TITLE & BLDG. DATA:
ROOF FRAMING DETAILS W/ METAL DECK
WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #	
DATE	12/1/02
DRAWN BY	JAG
SCALE	AS NOTED
APPROVED	
REVISIONS	

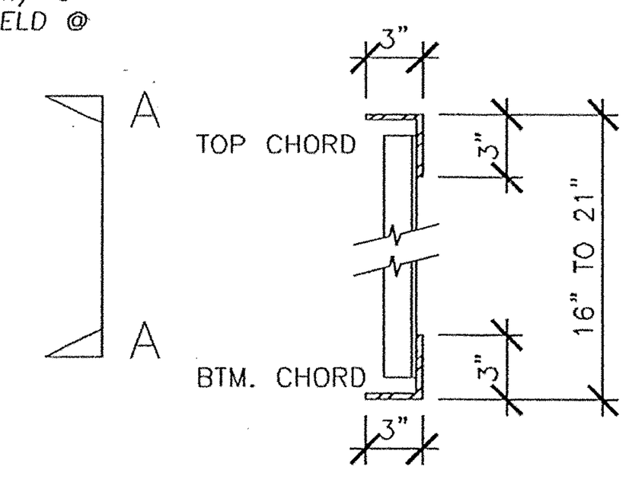
SHEET NO.
S-51

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/20/2024

A#-03-123199
FILE # 15-6



DUAL SLOPE STEEL TRUSS ELEVATION
W/ 20 PSF ROOF LOAD & 80 MPH WIND
SCALE: 1/4" = 1'-0"



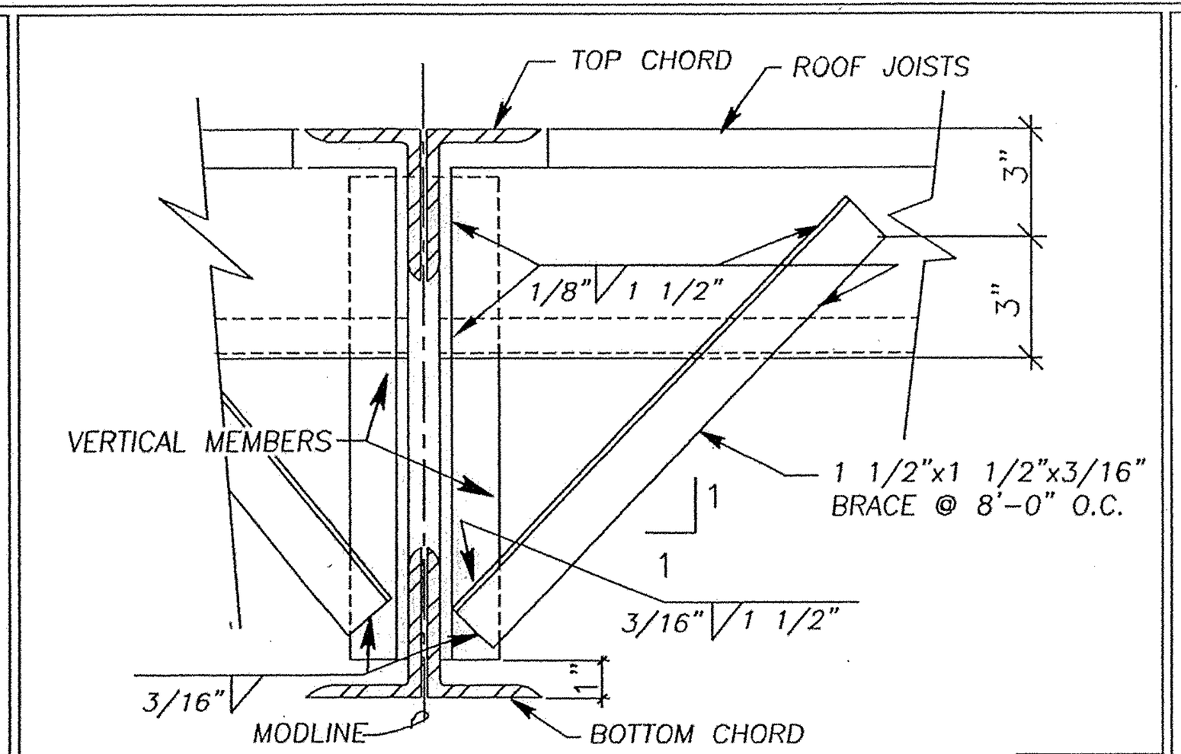
VIEW A-A
SCALE: 1" = 1'-0"

NOTES:
1. ALL STEEL GRADES TO BE A-36 OR EQ. WITH 36 K.S.I. MIN. YEILD
2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70-XX OR EQ.
3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECIFICATIONS.
4. BOLTS & NUTS TO BE A307.
5. 3/8"x3"x5 1/2" PLATE WITH 11/16" HOLE FOR 5/8" MACHINE BOLT. PLATES @ 8'-0" O.C. FOR MODULE CONNECTION. SEE DETAIL #2A.

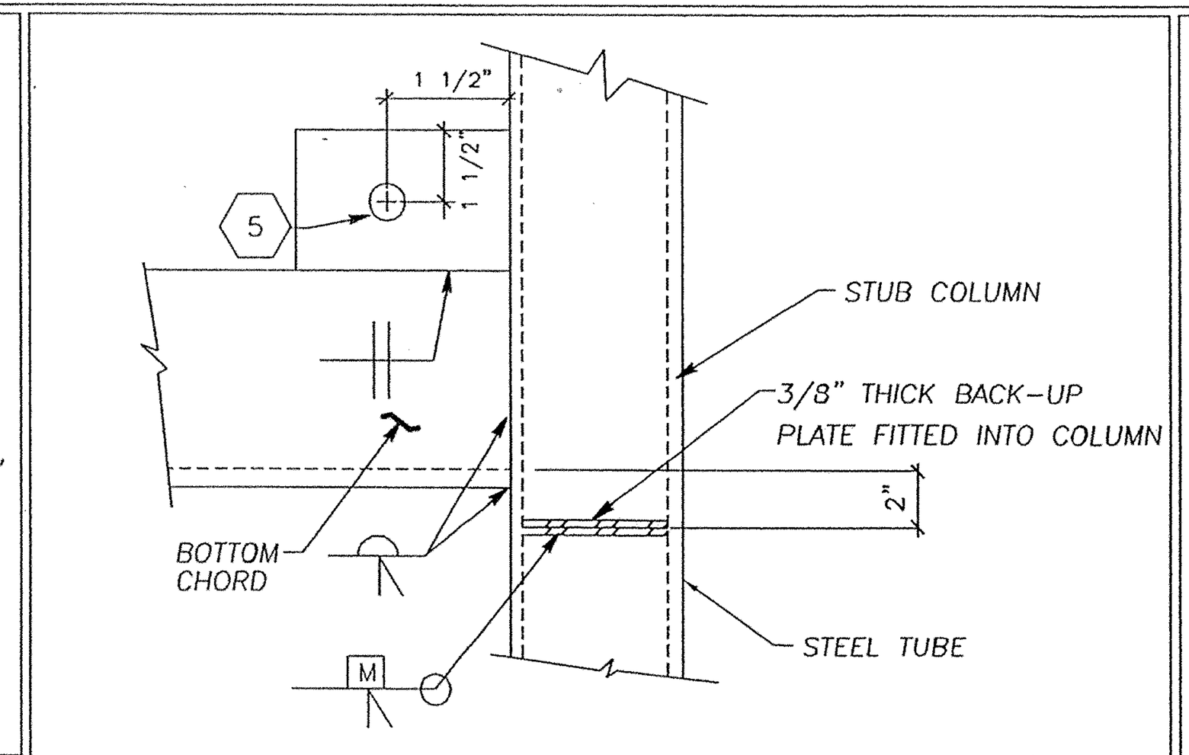
RECEIVED
JUL 2 4 2003
WESTERN DIVISION

DATE SIGNED
JUL 15 2003

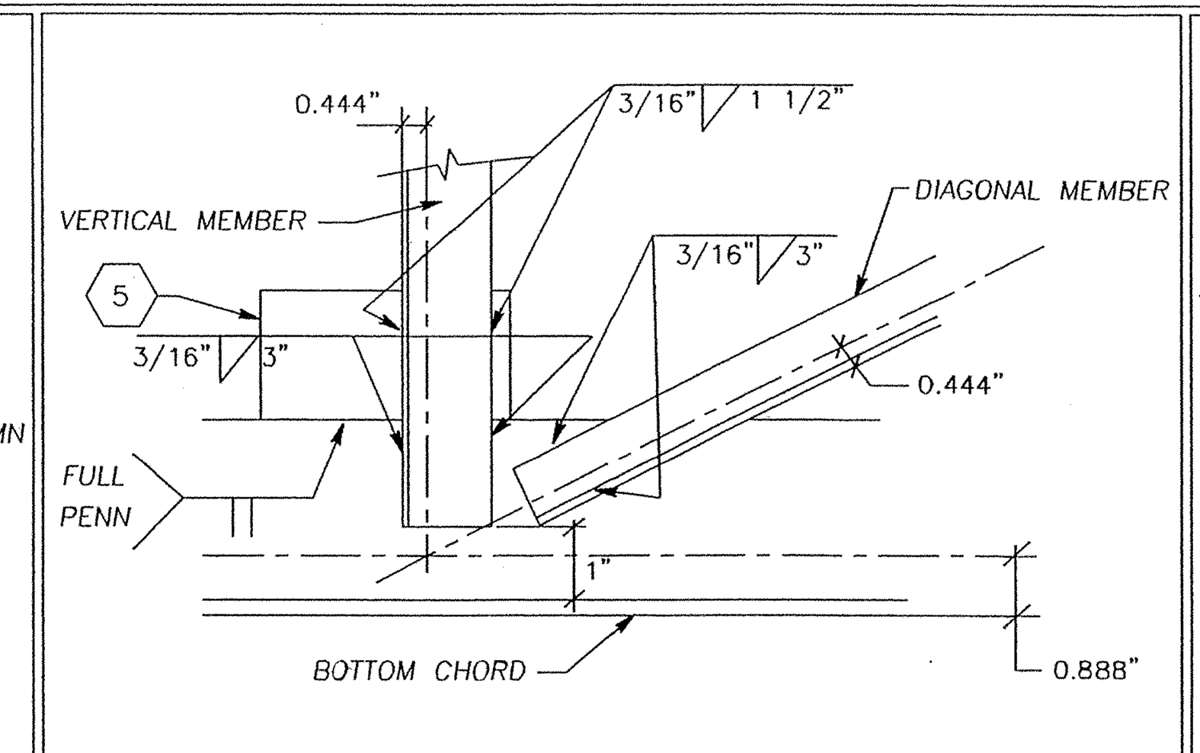
LICENSE EXPIRES 6-30-2004



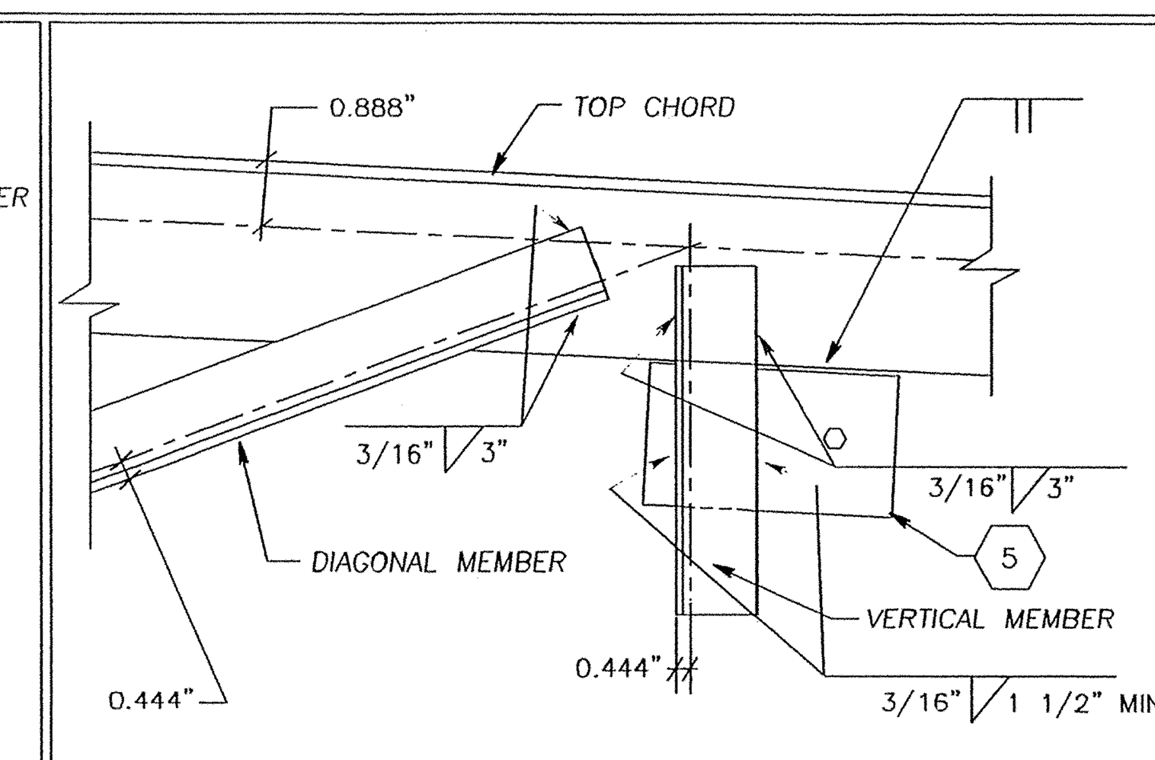
10 TRUSS TO ROOF JOIST BRACING



7 POST CONN. TO TRUSS (BOT.)



4 VERT. & DIAG. TO BTM CHORD



1 VERT. & DIAG. TOP CHORD

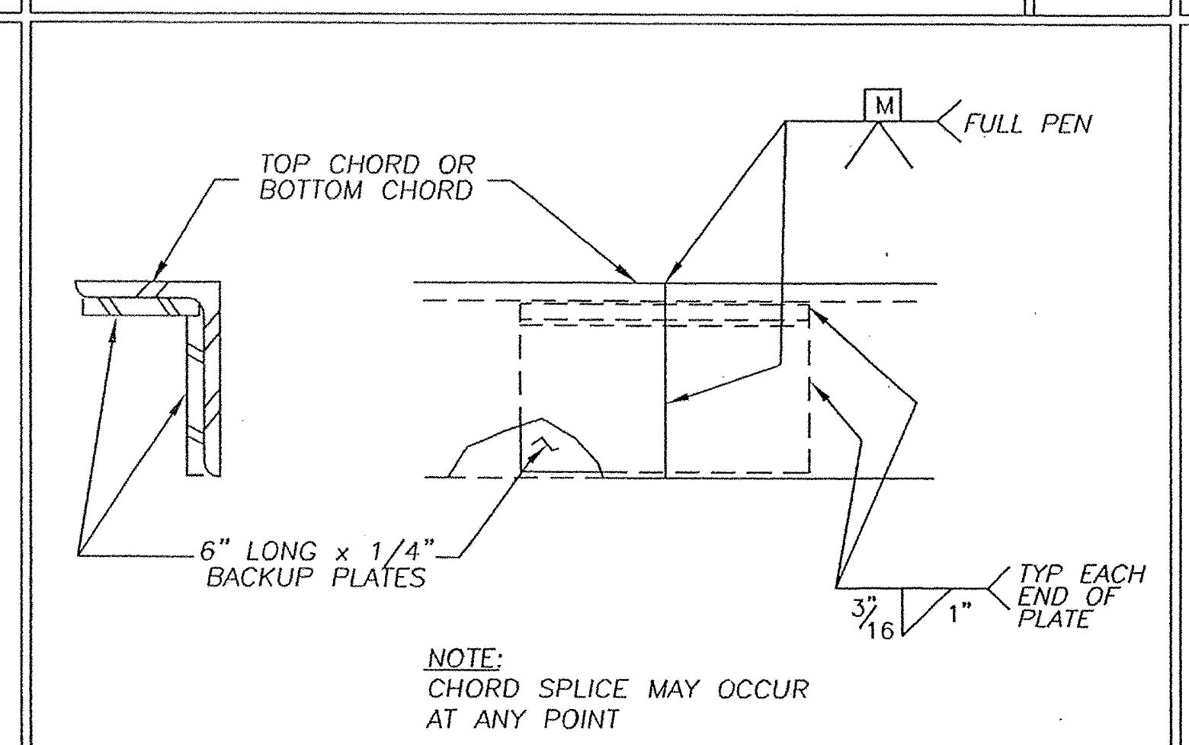
13

14

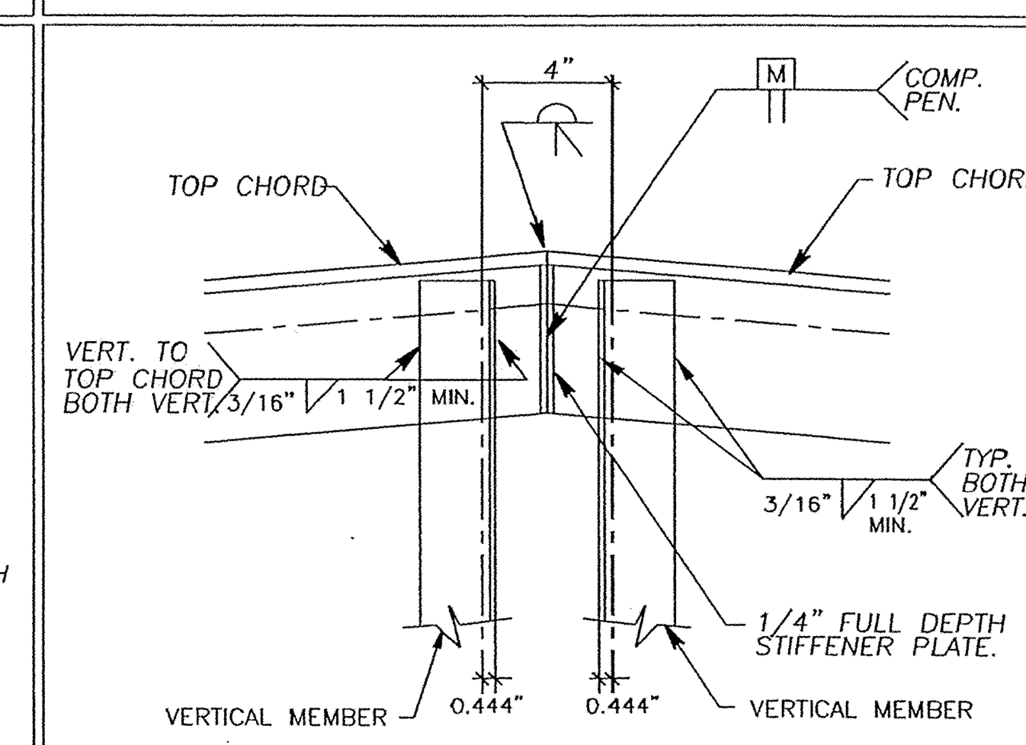
15

11

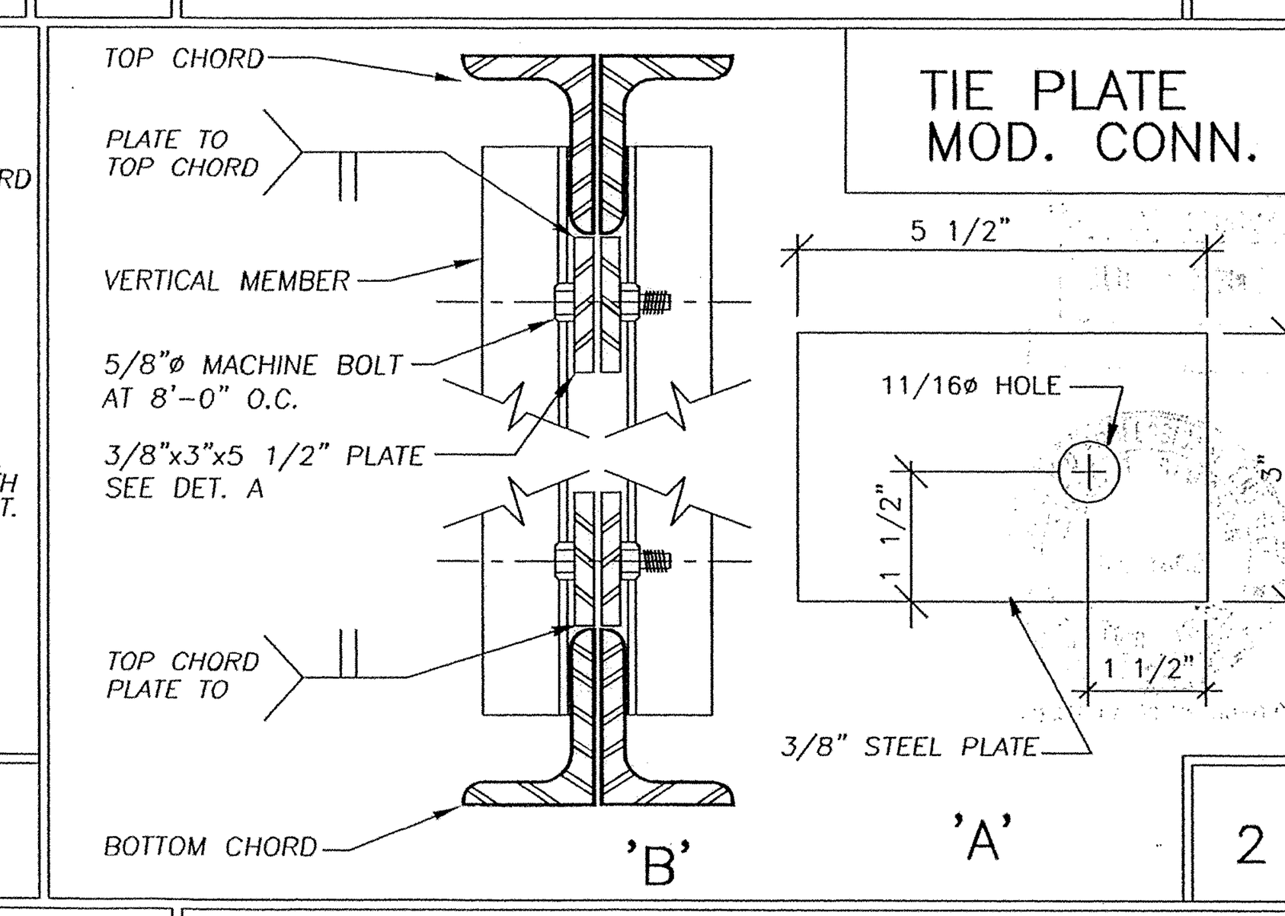
12



8 TRUSS CHORD SPLICE

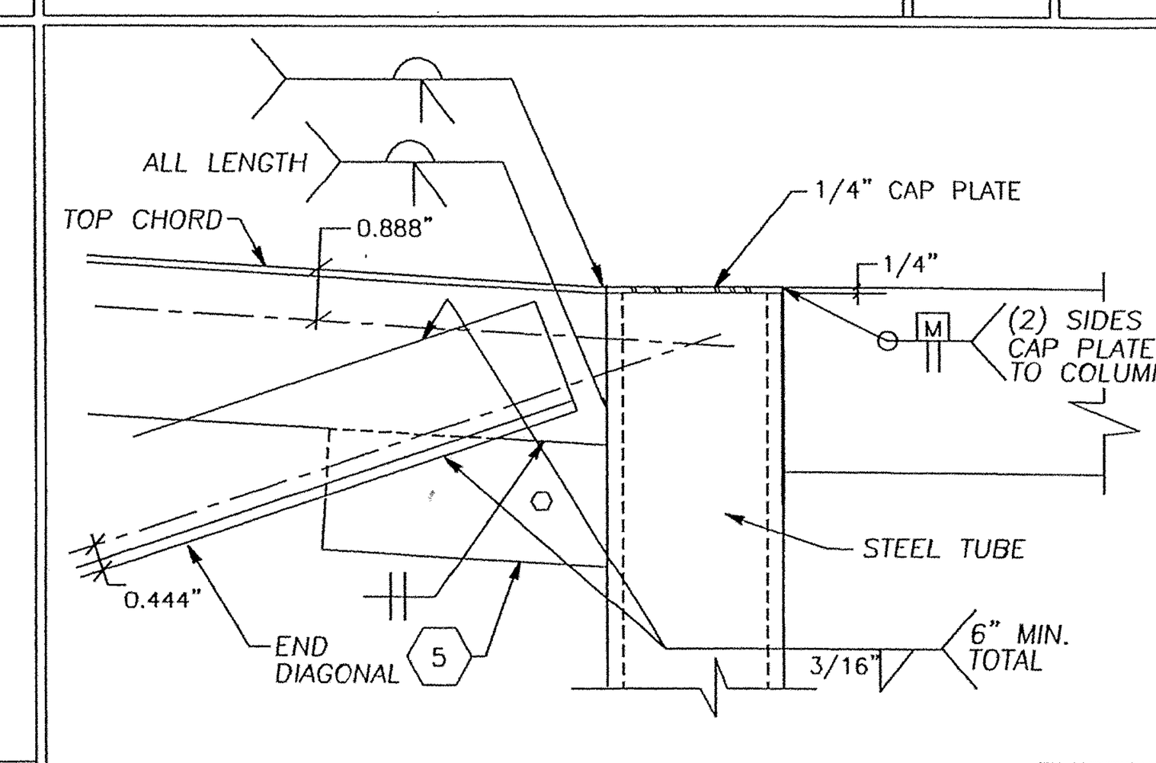


5 TOP CHORD @ MIDPOINT

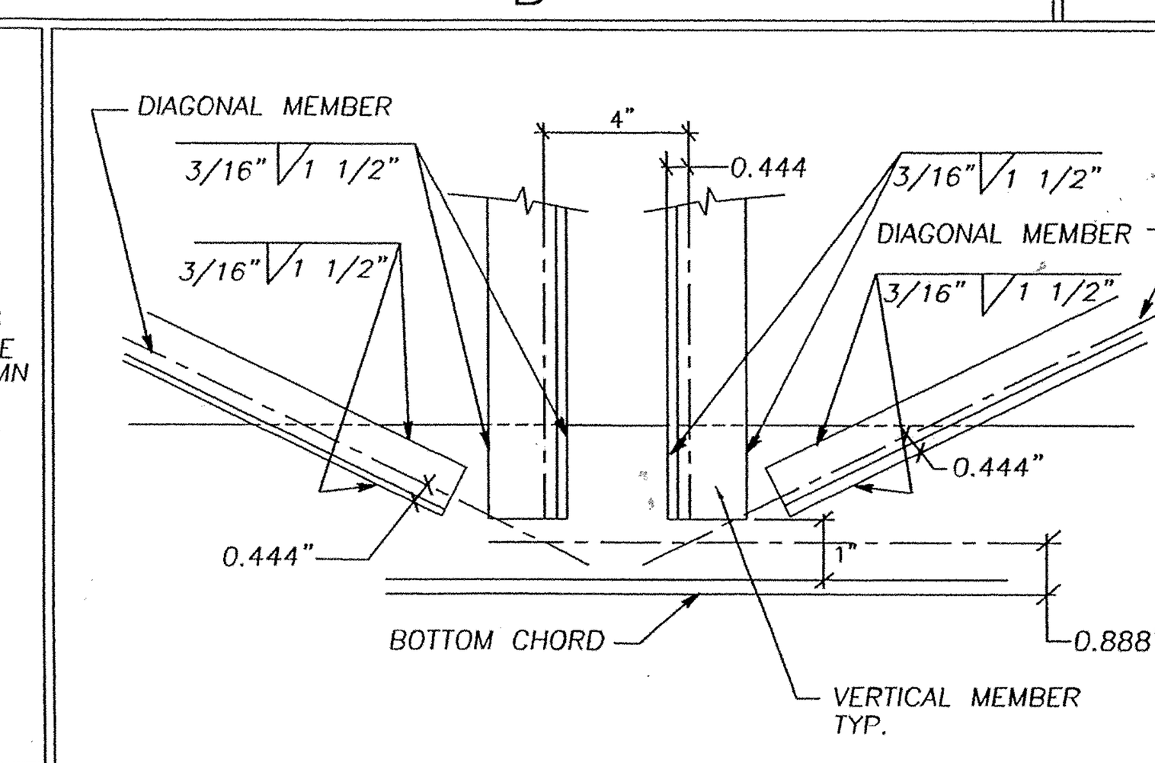


2

9



6 POST CONN. TO TRUSS (TOP)



3 BOTTOM CHORD @ MIDSPAN

ARCHITECT STAMP

DATE SIGNED
MAY 2 1 2003

LICENSE EXPIRES 6-30-2004
STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 104453
DATE JUL 17 2003

STATE AGENCY STAMP

PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-104778
DATE: 5-30-03

STATE AGENCY STAMP

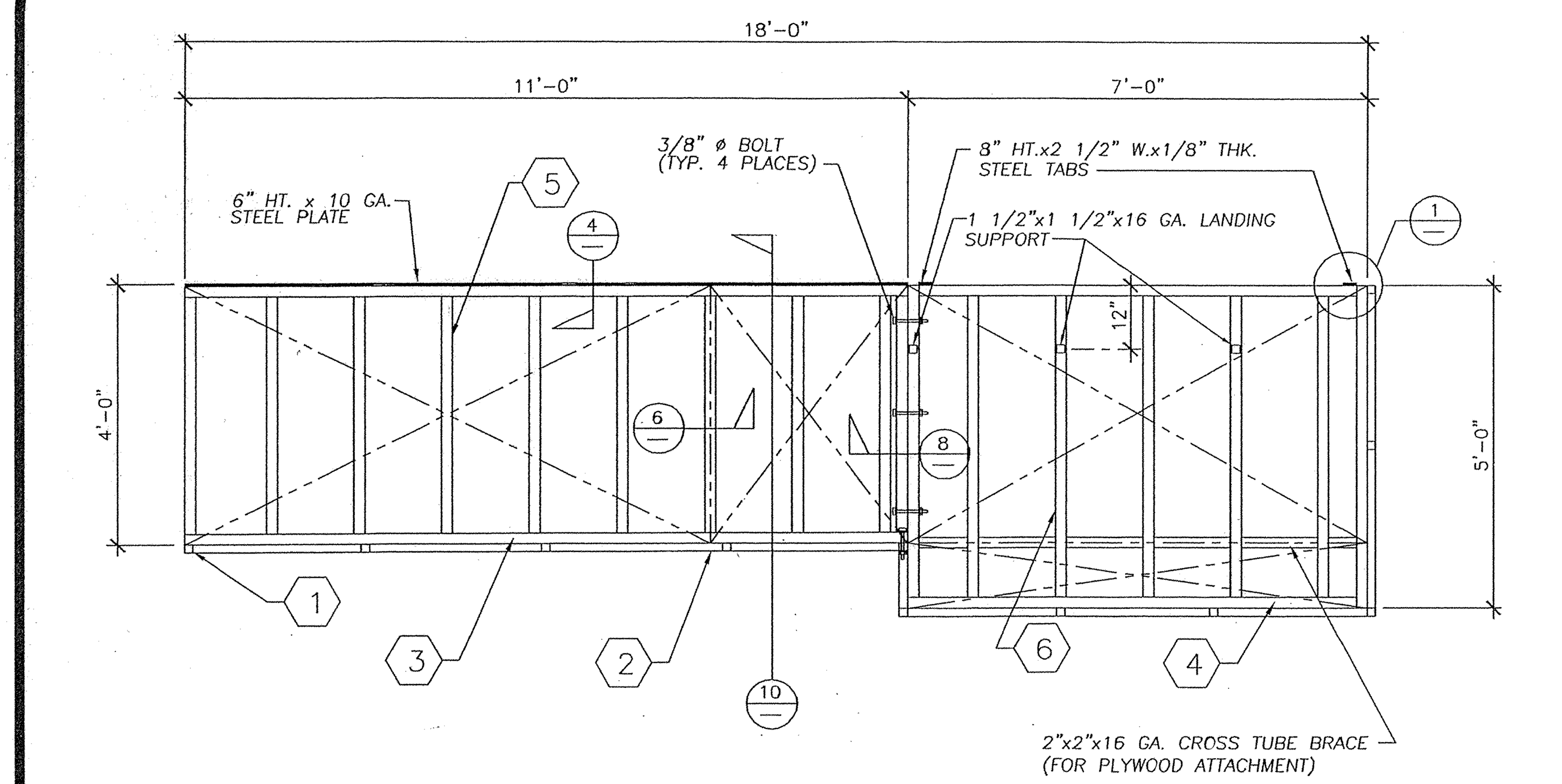
MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT:
MODULAR CLASSROOM BUILDING

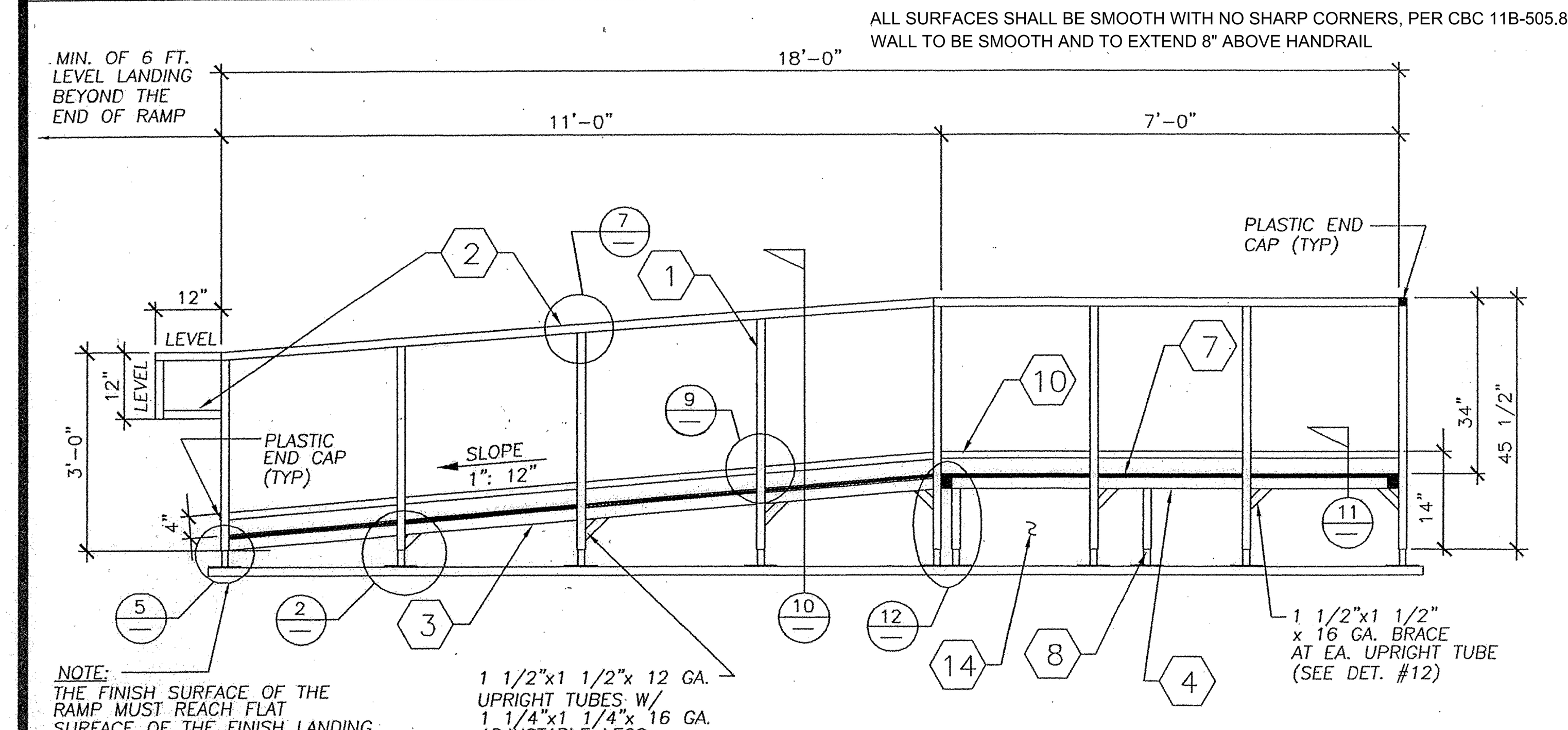
TITLE & BLDG. DATA:
DUAL SLOPE TRUSS & DETAILS
WIND LOAD: 80 MPH
ROOF LOAD: 20 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #
DATE 12/1/02
DRAWN BY JAG
SCALE AS NOTED
APPROVED
REVISIONS

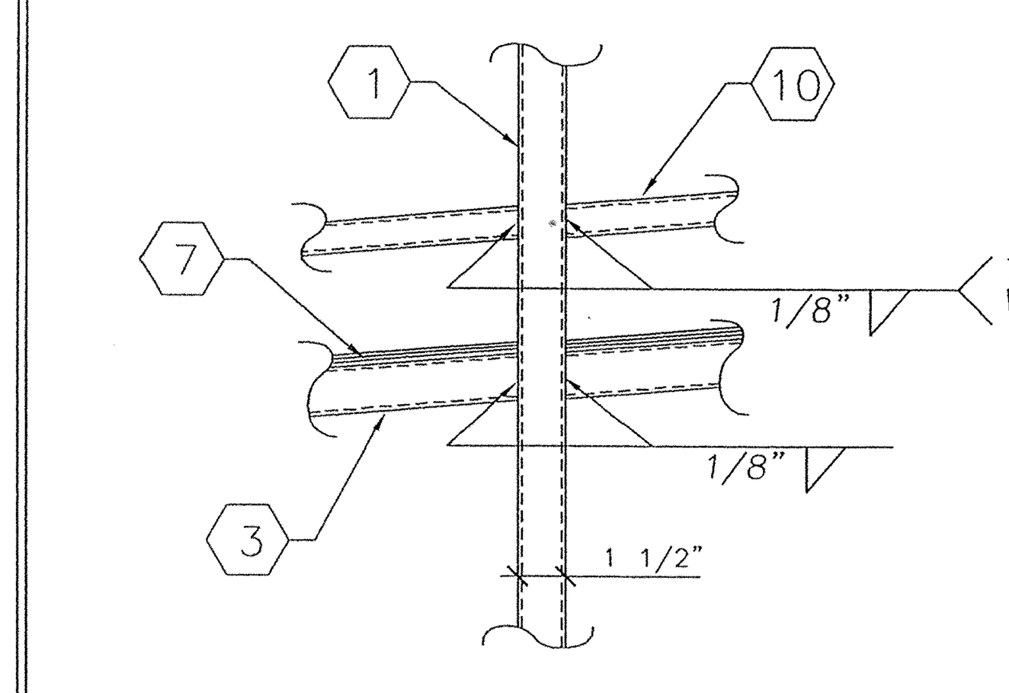
SHEET NO.
S-60



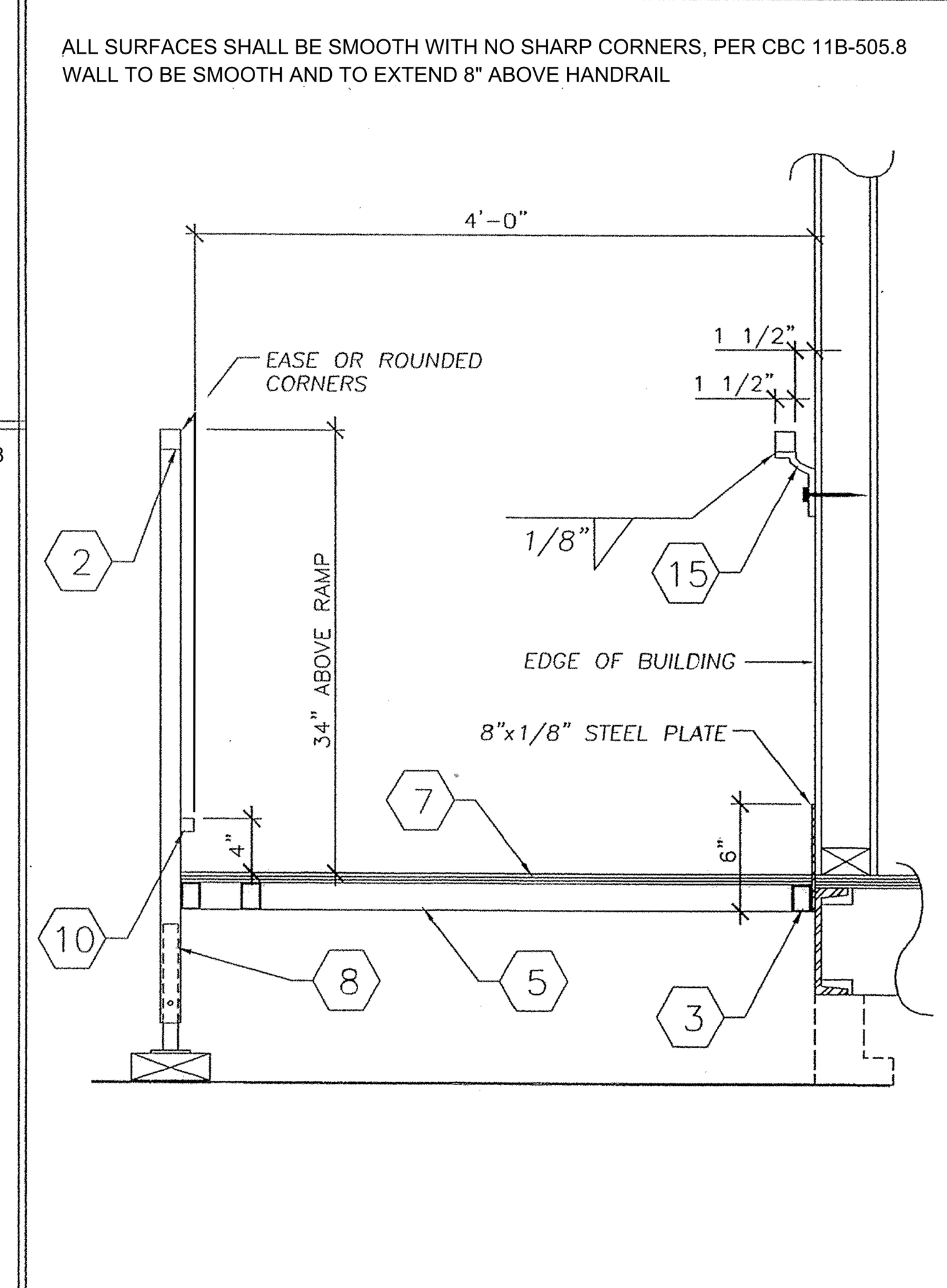
FRAMING PLAN
SCALE: 1/2" = 1'-0"



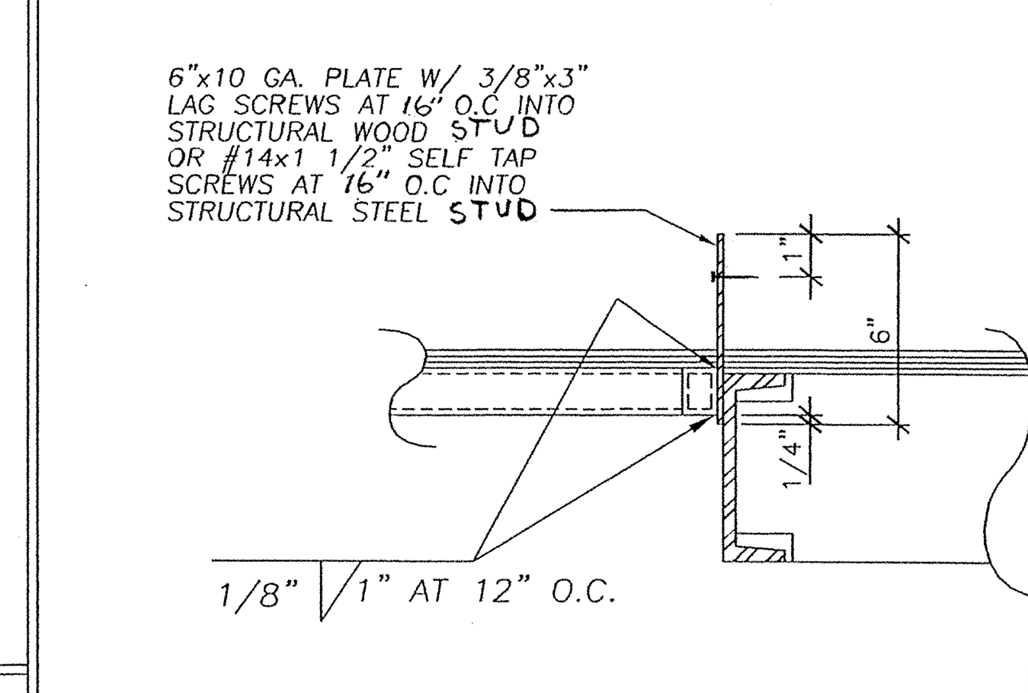
FRONT ELEVATION
SCALE: 1/2" = 1'-0"



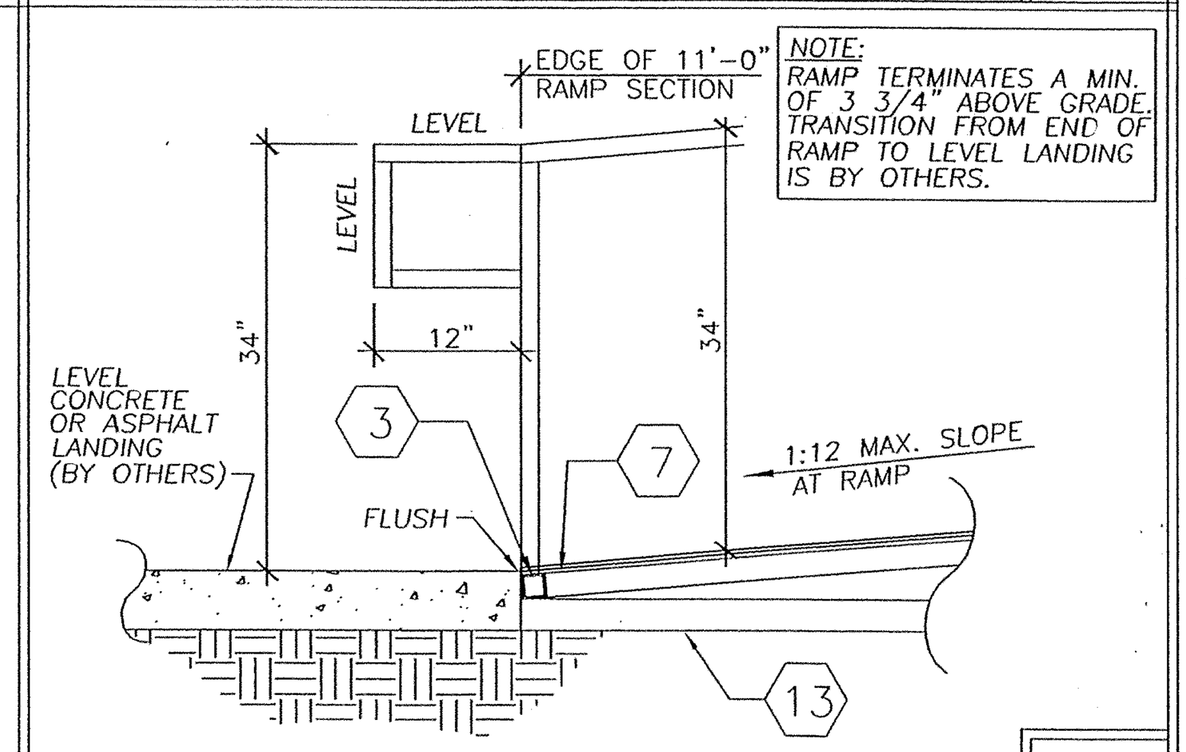
VERTICAL POST CONN.
SCALE: 2"=1'-0"
9



SECTION AT RAMP
SCALE: 1"=1'-0"
10



RAMP TO BUILDING
SCALE: 2"=1'-0"
4



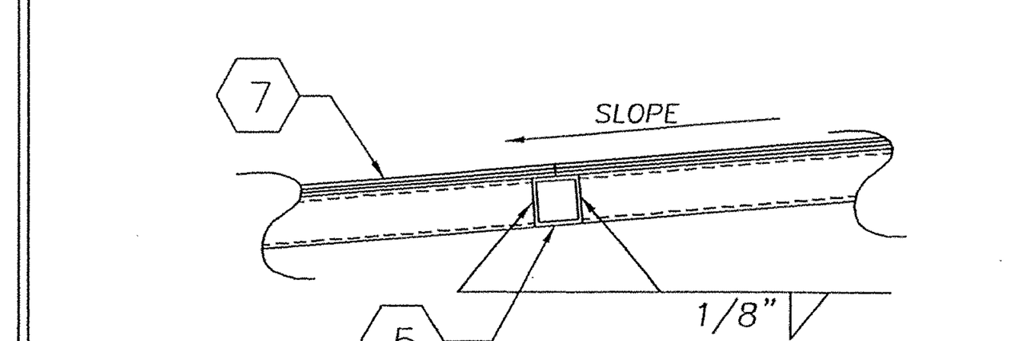
CONC. LANDING TO RAMP
SCALE: 3/4"=1'-0"
5

KEY NOTES

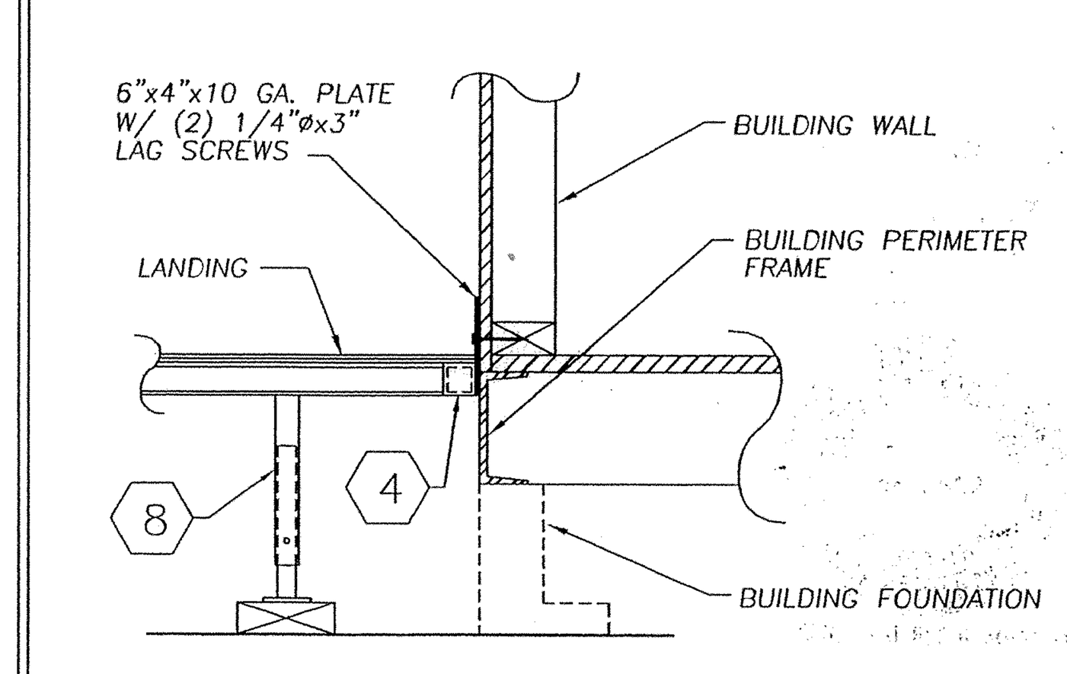
A#-03-123199
FILE # 15-6

1. UPRIGHT TUBE – 1 1/2" x 2 1/2" x 12 GA. SQ. TUBE. (Fy = 39 KSI)
2. HANDRAIL TUBE – 1 1/2" x 1 1/2" x 16 GA. SQ. TUBE. (Fy = 39 KSI)
3. RAMP PERIMETER TUBE – 1 1/2" x 1 1/2" x 16 GA. SQ. TUBE
4. LANDING PERIMETER TUBE – 2" x 2" x 16 GA. SQ. TUBE
5. RAMP CROSS TUBE – 1 1/2" x 1 1/2" x 16 GA. SQ. TUBE (@ 16" O.C.)
6. LANDING CROSS TUBE – 2" x 2" x 16 GA. SQ. TUBE
7. 12 GA. METAL DECK: NON-SLIP SURFACE. DESIGN COEFFICIENT OF FRICTION GREATER THAN 0.7. MAINTAINABLE FOR 1 YR. ALTERNATE PLYWOOD DECKING: USE 3/4" EXTERIOR GRADE PLYWOOD DECKING W/ 24" O.C. SPAN RATING. (ATTACH METAL W/ TACK WELD @ 12" O.C. @ PERIMETER, ATACH PLYWOOD DECK W/ #12 SELF TAP SCREWS @ 12" O.C. @ PERIMETER.
8. ADJUSTABLE LEGS – 1 1/4" x 1 1/4" 16 GA. SQ. TUBE W/ 3"x6"x1/4" THK. BASE PLATE WELDED TO LEG BASE PLATE TO HAVE (2) 5/16" HOLES FOR 1/4" LAG BOLTS.
9. SUPPORT PLATE – 1 1/4" x 1/8" THICK PLATE
10. WHEELCHAIR RAIL – 1" x 1" SQ. TUBE TACK WELDED TO UPRIGHT MEMBERS.
11. 3/8" DIA. MACHINE BOLTS.
12. 6"X10"X10GA. PLATE W/ (2) 1/4"øX3" LAG SCREWS.
13. CONT. SILL PLATE 2x6 P.T.H.F. SEE DET. #15 FOR LAYOUT.
14. WOOD SKIRTING ROUGH SAWN T-1-11 UNGROOVED
15. HANDRAIL MOUNTING BRACKET W/ 3/8"ø x 4" LAG BOLT TO STUD. BRACKET OCCURS @ (3) PLACES, (1) @ EACH END AND (1) @ MIDSPAN OF HANDRAIL.
16. DRIVE 1" DIA. x 15" G.I. PIPE AT 10'-0" MAX. DRILL SILL PLATE 1 1/2" DIA. MAX. HOLE. PIPE MAY BE DRIVEN AT A MAX. OF 45° ANGLE W/ VERTICAL.
17. THE STRENGTH OF STEEL TUBES IS 46000 PSI OR HIGHER.
18. RAMP EXTENSION FRAME.
19. 3"x1"x3'-0"x10 GA. BENT PLATE.

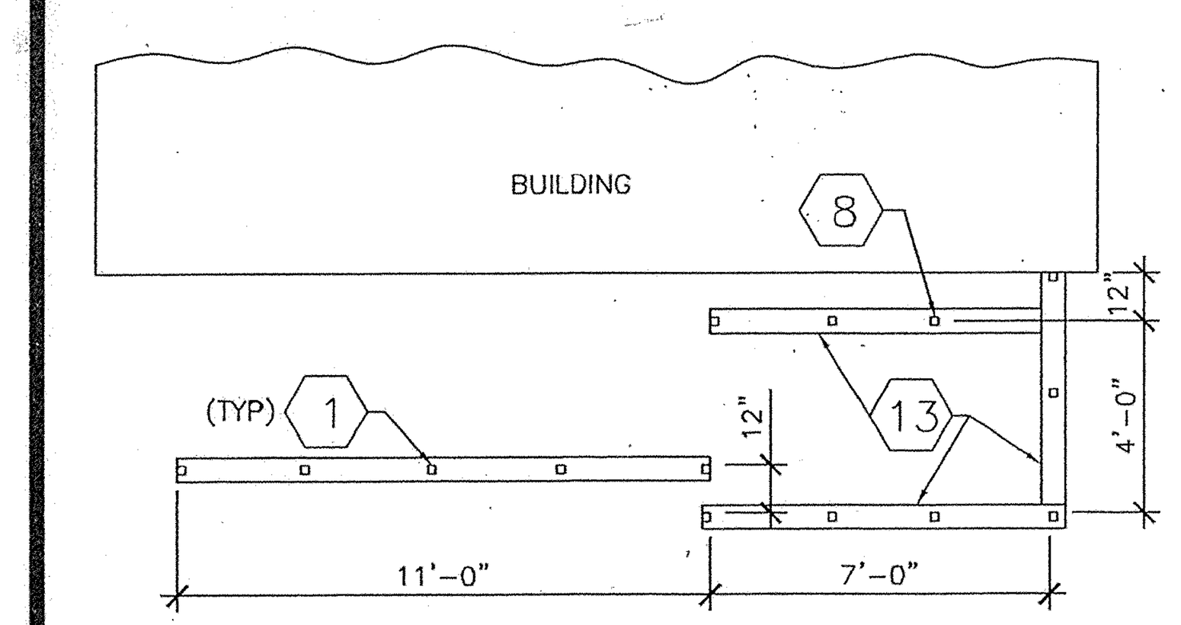
RECEIVED
JUL 2 4 2003
WESTERN DIVISION



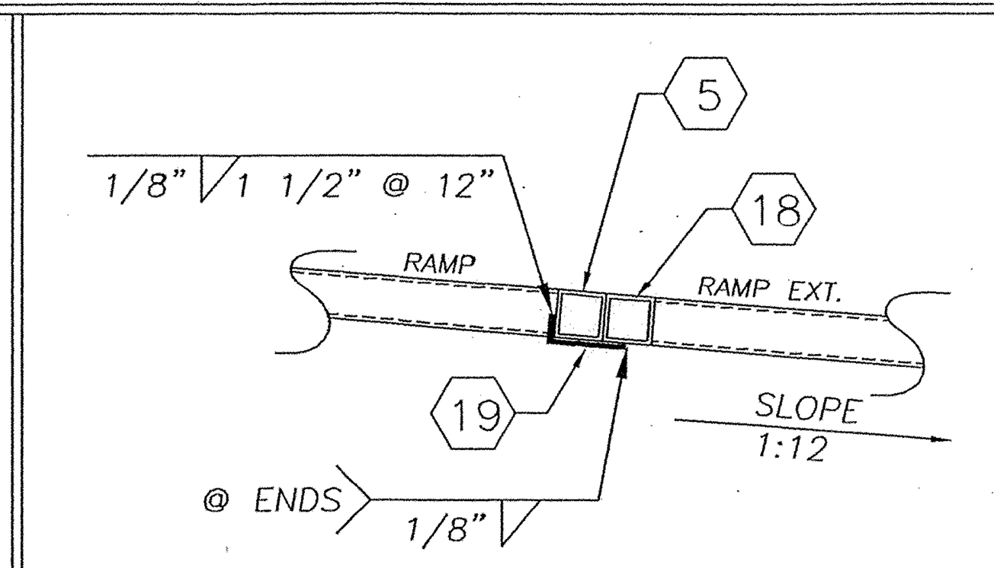
DECK & JOIST CONN.
SCALE: 2"=1'-0"
6



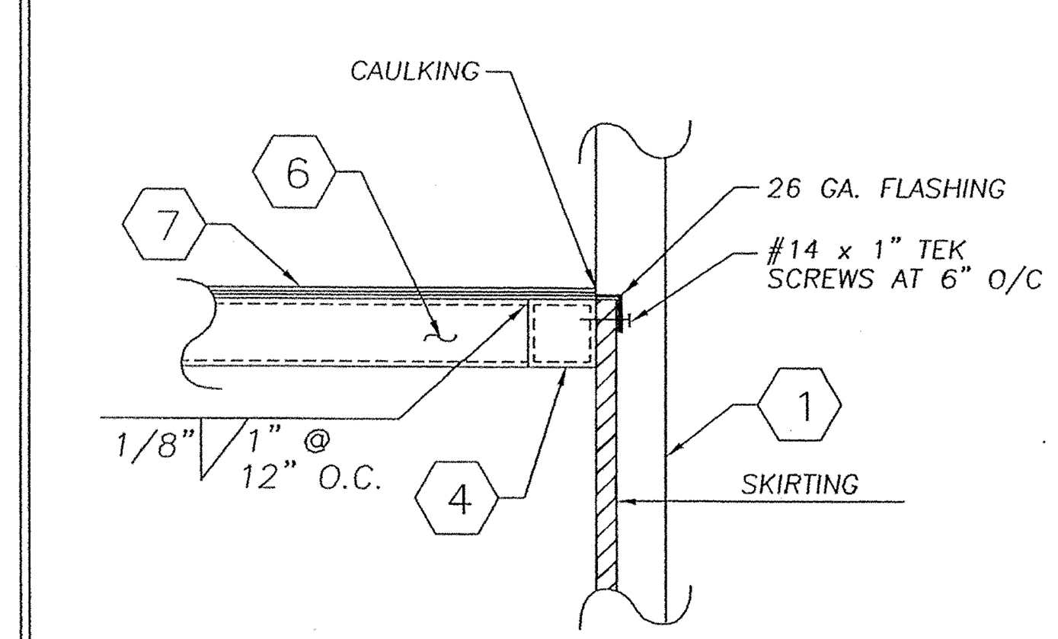
LANDING TO BUILDING
SCALE: 1"=1'-0"
1



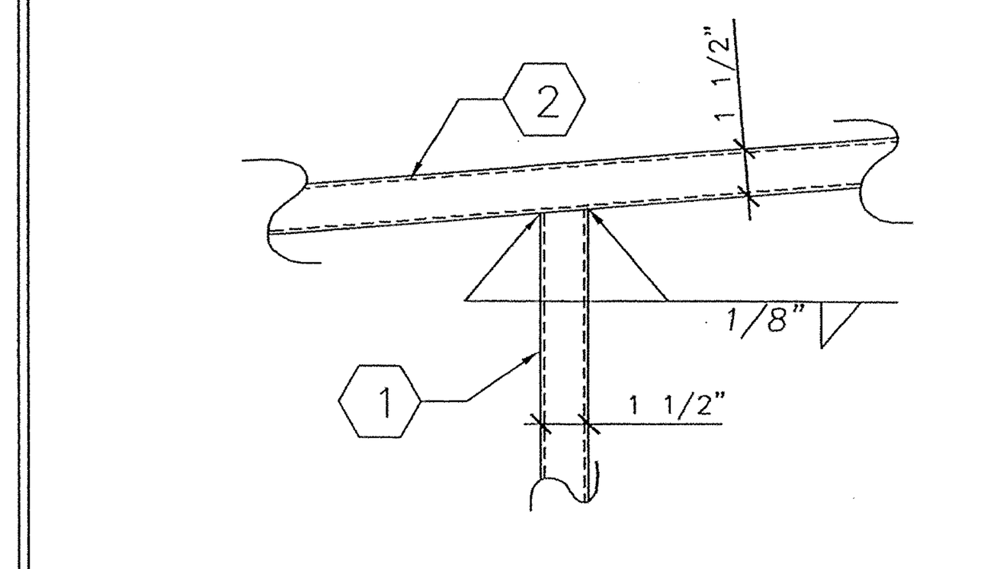
SILL PLATE @ RAMP & LANDING
SCALE: 1/4" = 1'-0"
15



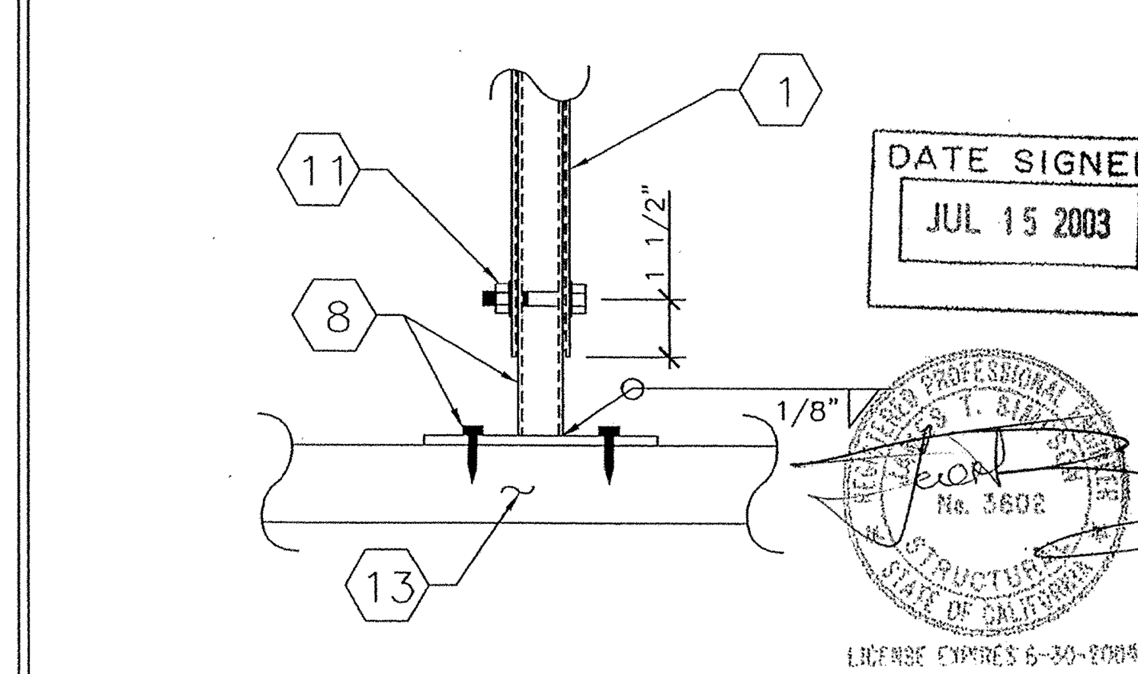
RAMP EXTENSION TO RAMP
SCALE: 2"=1'-0"
13



SKIRT FLASHING
SCALE: N.T.S.
11



POST TO HANDRAIL
SCALE: 2"=1'-0"
7



BASE
SCALE: N.T.S.
2

ARCHITECT STAMP

DATE SIGNED
MAY 2 1 2003

DATE SIGNED
JUL 15 2003

LICENSE EXPIRES 6-30-2004

STRUCTURAL ENGINEER STAMP

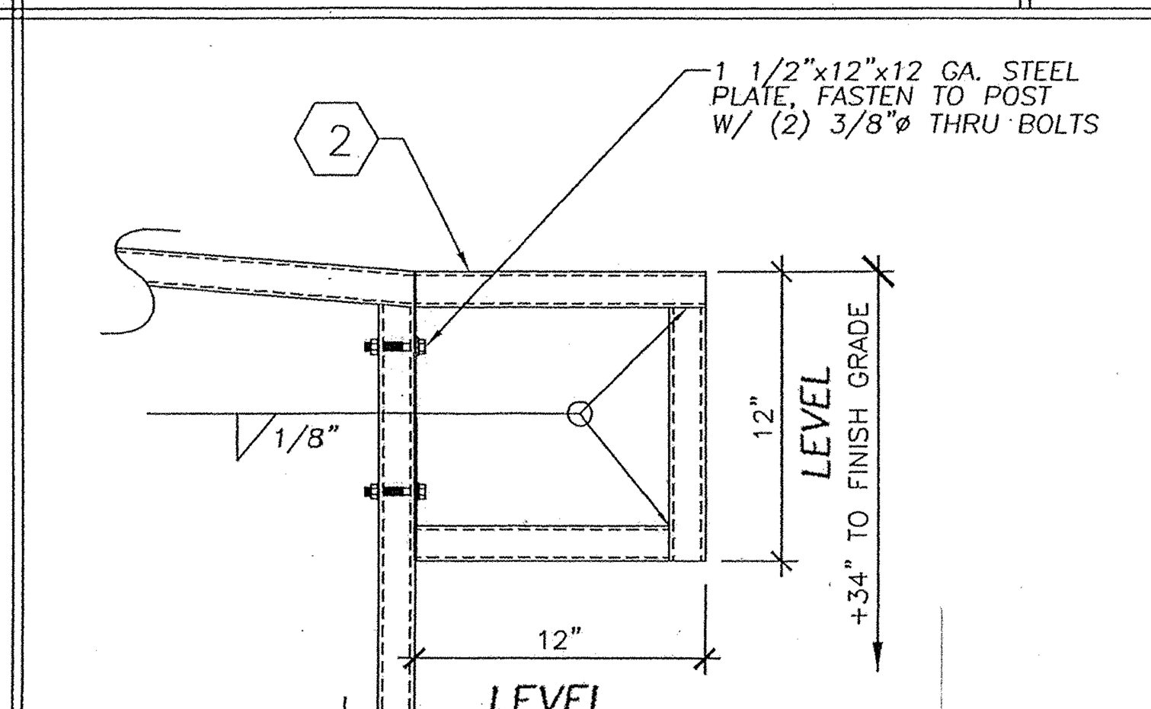
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 [illegible]459
JUL 17 2003

STATE AGENCY STAMP

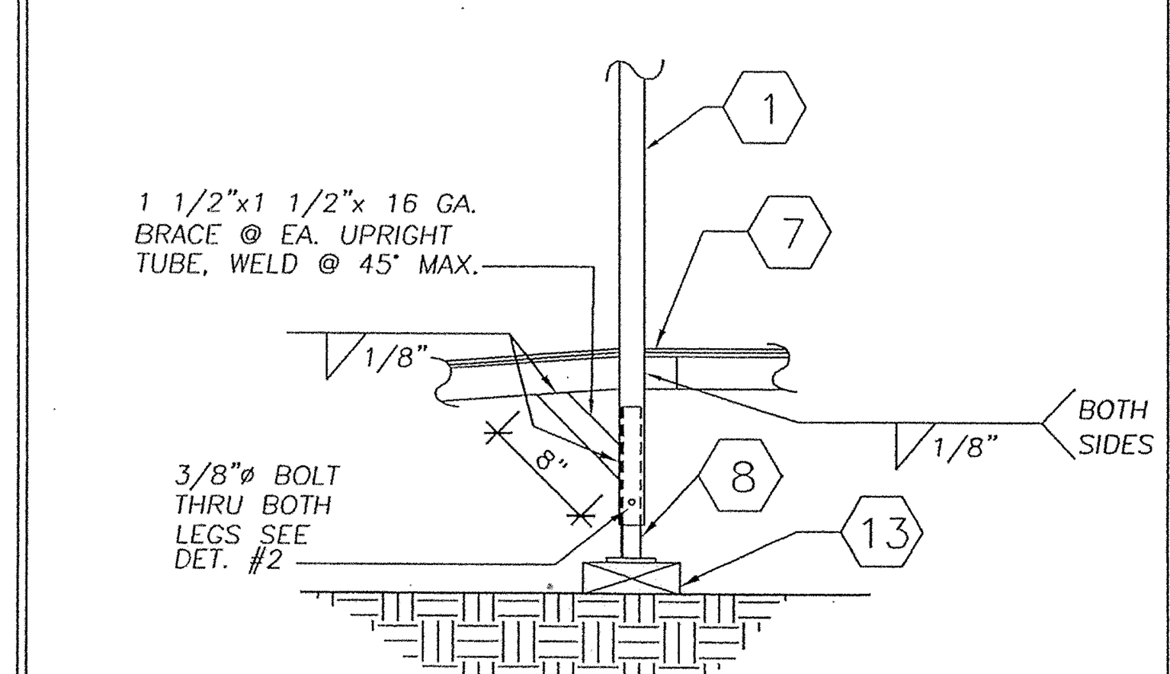
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-104778
DATE: 5-30-03

STATE AGENCY STAMP

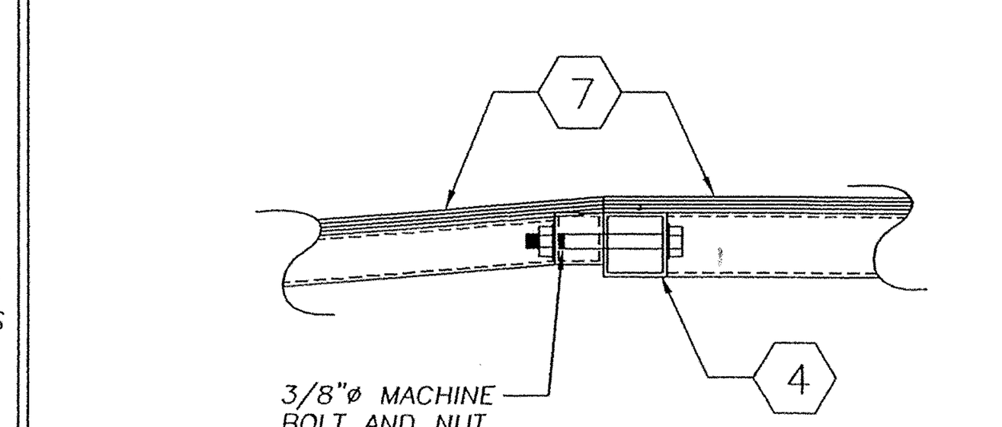
16



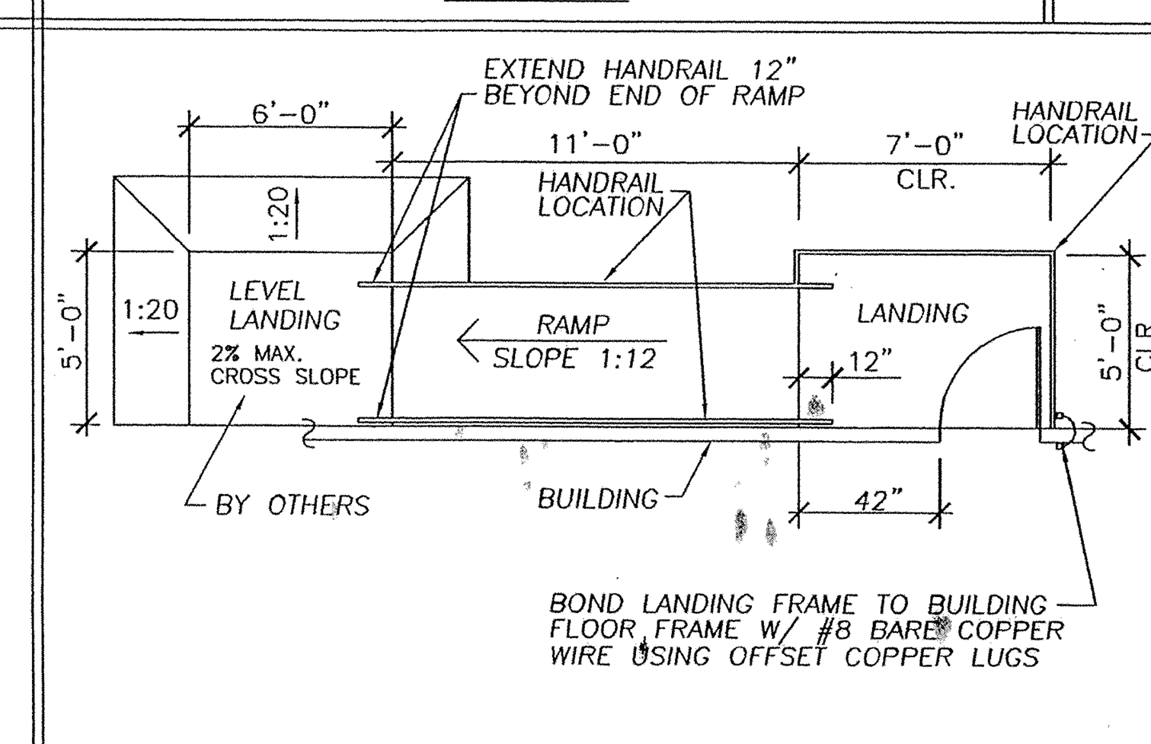
ALT. GUARD RAIL EXTENSION
SCALE: 1 1/2"=1'-0"
14



BASE LEG
SCALE: 1"=1'-0"
12



RAMP / LANDING TRANSITION
SCALE: 2"=1'-0"
8



HANDRAIL LOCATIONS
SCALE: N.T.S.
3

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA. 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT:
MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:
4'-0" WIDE RAMP PLAN & DETAILS

WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 100 PSF

JOB #	
DATE	12-1-02
DRAWN BY	JAG
SCALE	AS NOTED
APPROVED	
REVISIONS	

SHEET NO.
R-1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/20/2024

ELITE MODULAR
WOOD & CONCRETE FOUNDATIONS PC

ELITE MODULAR LEASING & SALES, INC.
P.O. BOX 78447 CORONA CA 92877
PHONE: 951-422-2500 FAX: 951-943-3074

NOTE:
BELOW STATEMENT APPLICABLE AT W.U.I. AREAS ONLY

FOUNDATION PC OPTION TO BE COMPLIANT WITH WILD/ URBAN INTERFACE ZONE (W.U.I.)

- EXTERIOR UNDER FLOOR VENTS TO BE FULLY COVERED WITH CORROSION RESISTANT MESH. OPENINGS TO BE NO LESS THAN 1/16" BUT NO MORE THAN 1/8" IN SIZE PER CBC 706A
- EXTERIOR WALLS MUST BE COMPRISED OF NON-COMBUSTIBLE MATERIAL PER CBC 707A
- THE SKIRTING BETWEEN THE FLOORS AND THE GRADE MUST BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL PER CBC 707A

NOTE: SEE DETAILS 6, 7, 8 & 9 ON SHEET **WFD-01** FOR (W.U.I.) DETAIL REFERENCES

SHEET INDEX

A#-03-123199
FILE # 15-6

ADJACENT BUILDINGS: ONLY THOSE BUILDINGS MANUFACTURED BY THE SAME COMPANY MAY BE PLACED ADJACENT TO EACH OTHER

APPROVED PC A-NUMBERS FOR THIS FOUNDATION PC:

BUILDING DATA 24x40 RIGID FRAME

PC-BASE	DATE	SIZE	FLOOR LOAD	BLDG MFG
PC 80	09/14/1989	24x40	50/50+20/100#	MODTECH
PC 76	03/19/1992	24x40	50+20#	MODTECH
PC 112	03/13/1990	24x40	50/50+20#	AURORA
PC 242	05/11/1995	24x40	50+20#	MODTECH
PC 275	08/10/1998	24x40	50/50+20#	MODTECH
PC 282	09/03/1998	24x40	50/50+20#	MODTECH
04-104796	07/17/2003	24x40	50+20#	MODTECH
04-101419	10/23/1999	24x40	50/50+20#	MODTECH
PC 270	09/12/1999	24x40	50#/**50+20#	MODTECH
PC 106884	12/03/2007	24x40	50+20#	SMI
04-100073	01/15/1998	24x40	50+20#	MSI
PC 253	05/10/1996	24x40	50/50+20/100#	AURORA
04-101244	09/02/1999	24x40	50/50+20/100/125#	MSI
PC 367	01/20/1998	24x40	50+20#	EBS
PC 330	09/04/1997	24x40	50/50+20#	PACE SETTER
PC 260	05/10/1996	24x40	50/50+20/100/125#	AURORA

BUILDING DATA 24x40 (EXPANDABLE) RIGID FRAME

PC-BASE	DATE	SIZE	FLOOR LOAD	BLDG MFG
04-104793	05/22/2003	24-144x40	50/50+20/100/125#	MODTECH
04-107557	02/21/2006	24/36/48x40	50/50+20/100/150#	SILVER CREEK
04-109299	02/09/2010	24-120x40	50/50+20/100/150#	SILVER CREEK
04-112072	12/29/2011	24-120x40	50/50+20/100/150#	SILVER CREEK
04-109619	02/09/2010	24/36/48/144x40	50/50+20/100/150#	SILVER CREEK
04-112147	04/02/2012	24/36/48/144x40	50/50+20/100/150#	SILVER CREEK
04-114027	04/14/2015	24/36/48/144x40	50/50+20/100/150#	SILVER CREEK
04-113886	02/06/2015	24/36/48/144x40	50/50+20/100/150#	SILVER CREEK
04-114102	08/04/2015	24/36/48/144x40	50/50+20/100/150#	SILVER CREEK
04-116668	07/24/2018	24/36/48/120x40	50/50+20/100/150#	SILVER CREEK
04-116721	09/24/2018	24/36/48/120x40	50/50+20/100/150#	SILVER CREEK
PC 243	05/04/1995	24/36/48x40	50/50+20/100#	MODTECH
PC 79	11/25/1990	24/36/48x40	50/50+20/100#	MODTECH
PC 258	04/13/1995	24/36/48x40	50/50+20#	MODTECH
PC 266	05/24/1996	24/36/48x40	50/50+20/100#	MODTECH
PC 101268	12/16/1999	24/36/48x40	50/50+20/100#	MODTECH
PC 104801	05/22/2003	24/36/48x40	50/50+20/100#	MODTECH
PC 289	02/13/1997	24/36/48x40	50/50+20#	MODTECH
04-100335	06/30/1998	24/36/48x40	50/50+20/125#	AURORA
04-101055	06/29/1999	24/36/48x40	50/50+20/125#	AURORA
PC 323	06/24/1997	24/36/48x40	50/50+20/100#	MSI
PC 362	10/15/1997	24/36/48x40	50/50+20/125#	MSI
04-105135	07/09/2003	24/36/48x40	50/50+20/100/125#	WALDEN
04-104816	04/30/2009	24/36/48x40	50/50+20/150#	AURORA
04-104778	05/30/2003	24/36/48x40	50/50+20/125#	MSI

APPLICABLE CODES

LIST OF 2019 CALIFORNIA CODE OF REGULATIONS

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
(2018 UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2007 ASME A17.1 (w/A17.1a/CSA B44a-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS

PROJECT SPECIFIC STATE AGENCY APPROVAL

ELITE MODULAR
LEASING & SALES, INC.
P.O. BOX 78447
CORONA CA 92877
PHONE: 951-422-2500
FAX: 951-943-3074

PROJECT NAME:

SHEET TITLE:
COVER SHEET

ARCHITECT OF RECORD
SUBMISSION DATE

LICENSED ARCHITECT JACK F. SHIVELY STATE OF CALIFORNIA REN: 01/31/2023

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-120378 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 08/24/2021

2019 CBC
ORIGINAL PC STATE AGENCY APPROVAL

REVISIONS
1 2 3 4 5 6 7

PROJECT NO:
DRAWN BY: F.C.
SCALE: AS NOTED
DATE: AUGUST 23, 2021

SHEET NUMBER
CP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123199 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 06/20/2024

SPECIFICATIONS

RELOCATABLE CLASSROOMS

CARPENTRY:

1. SCOPE OF WORK: CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY

2. WORKMANSHIP:
A- FRAMING: SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE, WORK CUT, FITTED AND ASSEMBLED LEAVE, PLUMBING AND TRUE 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 THE TITLE 24 CCR-TABLE 2304.9.1. NAILS SHALL BE CORROSION RESISTANT BOX NAILS.

C. MACHINE APPLIED NAILING SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUOUS SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

D. TRIM: SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING.

MATERIAL SPECIFICATIONS:

1. STRUCTURAL FRAMING SHALL BE HEM FIR-LARCH GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES NO. 16 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS OF FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. (HEM FIR SOUTH IS NOT ALLOWED) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED. ALL FRAMING EXCEPT AS NOTED HEM FIR #2.
2. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1-07. ALL PANELS SHALL BE MARKED WITH AN APA GRADE MARK WITH AN IDENTIFICATION INDEX AS SHOWN ON DRAWINGS. USE 4'X8' PANELS- MINIMUM, EXCEPT AT BOUNDARIES AND AT FRAMING CHANGES WHERE MINIMUM PANEL DIMENSION SHALL BE 24" AT ROOFS AND FLOORS AND 12" AT WALLS.
3. BOLTS FOR TIMBER CONNECTIONS SHALL CONFORM TO SNAI/ASME STANDARD B18.2.1-2012 & 2012 EDITION OF NDS (THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION) BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENT OF 2012 NDS.
BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN BOLD DIAMETER. BOLTS SHALL BE FULL BODY WITH MINIMUM YIELD STRENGTH OF 45,00 PSI. RE-TIGHTEN BOLTS BEFORE CLOSING IN WORK.
4. LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARDS B18.2.1 AND 2012 NDS. HOLES FOR LAG SCREWS SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. OR QUARTER INCH (1/4") DIAMETER LAG SCREWS NEED NOT HAVE PRE-DRILLED HOLES IF IT CAN BE SHOWN THAT WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL DIAMETER BODY LAG SCREWS WITH BENDING YIELD STRENGTHS PER TABLE 11J IN NDS.
5. PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREWS HEADS WHICH BEAR ON WOOD.
6. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1 AND THE REQUIREMENTS OF THE 2012 NDS. GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS PER TABLE 11L IN NDS.
7. WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.
8. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE-BORED TO 3/4 OF THE NAIL DIAMETER.
9. STRUCTURAL NAILING SHALL BE WITH BOX NAILS PER ALL REQUIREMENTS OF 2012 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.9.1. ALL NAILS SHALL BE GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS. PER THE REQUIREMENTS OF CCR TITLE 24. PAR2, WITH MINIMUM BENDING YIELDS PER TABLE 11N IN NDS. (SEE NAIL EQUIVALENCE BELOW)
10. NAIL EQUIVALENCE:
(PROVIDE MINIMUM NAIL LENGHTS AS REQUIRED FOR SPECIFIED PENETRATION, TYPICAL: U.N.O)

    6D EQUALS .113" DIA - PROVIDE 1.36" MINIMUM POINT PENETRATION
    8D EQUALS .131" DIA - PROVIDE 1.57" MINIMUM POINT PENETRATION

11. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.8. CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON AL TREATED FOUNDATION MEMBERS THAT COMPLY WITH CBC 2303.1.8.1. ALL FOUNDATION MEMBERS SHALL BE MARKED AS "FOR GROUND CONTACT" OR "FOR ABOVE GROUND USE" AS APPROPRIATE. PRESSURE TREATED MATERIAL SHALL COMPLY WITH AWPA STANDARD U1 AS REQUIRED BY CBC 2303.1.8 TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD WB COOPER GREEN 2% OR AN APPROVED EQUIVALENT) WHERE NOTED MEMBERS BELOW THE SUB FLOOR THAT ARE NOT A PART OF THE FOUNDATION SHALL BE PRESSURE TREATED.
12. ONLY MATERIALS IN CONTACT WITH THE GROUND NEEDS TO BE PRESSURE TREATED, ALL OTHER FOUNDATION LUMBER CAN BE DF OR HF#2 OR EQUAL.
13. IF MACHINE NAILING IS UTILIZED FOR THIS PROJECT, CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF CCR TITLE 24, PART 2. MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
14. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL COMPLY WITH SECTION 2304.9 OF CBC.
15. NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SECTION 2304.9.1.1 OF CBC
16. SHIM MATERIAL ABOVE SILL PLATES SHALL BE PLYWOOD CD EXP 1 OR EQUAL (NOT PRESSURE TREATED)
17. USE LUMBER IN GOOD CONDITION IS ACCEPTABLE FOR USE IN FOUNDATION SYSTEM
18. TIE PLATES SHALL CONFORM TO A-1011 GRADE 33.

SITE INSTALLATION REQUIREMENTS FOR DSA CLASSROOM BUILDINGS:

1. IN THE CASE OF EQUIPMENT LOCATED IN THE STATE OF CALIFORNIA, THE LESSEE (SCHOOL DISTRICT) IS RESPONSIBLE FOR THE SITE BEING CLEARED (FREE OF GRASS, TREES, SHRUBS, ETC) AND GRADED TO WITHIN 4 1/2" OF LEVEL GRADE FOR EACH BUILDING. IF THE SITE EXCEEDS THE 4 1/2" LEVEL GRADE REQUIREMENT ADDITIONAL COSTS MAY BE CHARGED TO LESSEE.

2. UNDER NO CIRCUMSTANCES SHOULD THE SITE BE GREATER THAN 9" FROM LEVEL GRADE OR HAVE LESS THAN 1000 PSF MINIMUM SOIL BEARING PRESSURE.

3. PRIOR TO DELIVERY, THE LESSEE SHALL MARK THE FOUND CORNERS OF THE BUILDING ON THE SITE, INCLUDING DOOR LOCATION. SHOULD SPECIAL HANDLING BE REQUIRED TO EITHER PLACE, INSTALL OR RELOCATE THE CLASSROOM ON THE LESSEE'S SITE DUE TO SITE OBSTRUCTION SUCH AS FENCING, LANDSCAPING, OTHER CLASSROOMS, ETC. ADDITIONAL COST WILL BE CHARGED TO LESSEE

4. PROVIDE ELECTRICAL GROUND TEST PER DSA IR E-1
5. FIELD WELDING FOR WELDING TIE PLATE OPTION. (IF USED, REQUIRES TEST AND INSPECTION)

THE EXAMPLE FORM DSA 103'S SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY. A FORM DSA 103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE FORM DSA 103'S ARE TO BE CROSSED OUT ON THIS DRAWING.

6. NO OTHER TEST AND INSPECTIONS ARE REQUIRED.
7. P.T. SHIMS MAY BE PROVIDED TO ACHIEVE A POSITIVE CONNECTION BETWEEN BOTTOM SILL PLATE AND FINISH GRADE IF REQUIRED. SHIM SIZES MAY VARY DEPENDING ON GAP.

GENERAL REQUIREMENTS:

1. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THESE GENERAL REQUIREMENTS APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH SECTION.
2. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAME PRODUCTS

SCOPE OF WORK:

1. THE WORK CONSISTS OF INSTALLING ON-SITE MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN, SHOWN AND DETAILED ON THE DRAWINGS
2. ALL REQUIREMENTS OF CCR (CALIFORNIA CODE REGULATION) TITLE 19 AND 24 RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

A. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.

B. INSPECTION DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY DSA (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 DISTRICT.
C. ON SITE INSPECTION OF THE BUILDING INSTALLATION, ELECTRICAL AND UTILITY OF THE BUILDING INSTALLATION OR CONNECTION BY AN INSPECTOR APPROVED BY THE DSA AND RETAINED BY THE SCHOOL DISTRICT.
D. OTHER SPECIAL TEST OR INSPECTIONS AS MAY BE REQUIRED BY DSA COST OF THESE INSPECTION TEST SHALL BE BORNE BY THE SCHOOL DISTRICT

WORK NOT INCLUDED:

1. ALL ON SITE OR OFF SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS
2. ALL LEVELING, GRADING OR OTHER SITE PREPARATION (EXCEPT FOUNDATION LEVELING WHERE REQUIRED) UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
3. FIRE ALARM SYSTEM, PROGRAM BELL, LOCK, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV SYSTEM, COMPUTER DATA OR ANY OTHER LOW VOLTAGE SYSTEM, UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR THE LEASE AGREEMENT.

ACCESSIBILITY OF SITE:

THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF THE BUILDING. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS, ETC. NECESSARY FOR MOVE-IN AND REMOVAL OF THE BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SITE ASSEMBLY:

1. SCOPE OF WORK: CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM PLANT TO THE SITE AND 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 AND THE ARCHITECT ARCHITECT.

2. ASSEMBLY OF ELEMENTS:
A. IN A LOCATION ON THE SITE AS DETERMINED BY THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL PLACE THE FOUNDATION AS DETAILED ON THE DRAWINGS.
B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON A WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CANE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING.
C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS ON THE DRAWINGS. FLASHING, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER PLANS AND DETAILS OF THE ORIGINAL BUILDING MANUFACTURER'S DRAWINGS.

VERIFY BUILDING'S MODULE SIZE PRIOR TO POURING CONCRETE - ADD 1/8" AT OUTSIDE MODULES AND 1/4" AT INNER MODULES FOR GROWTH PURPOSES.

DESIGN DATA:

FLOOR LIVE LOAD = 50 PSF, 50+20 PSF PARTITIONS, 100 PSF
ROOF LIVE LOAD = 20 PSF REDUCIBLE FOR TRIBUTARY AREA
WIND SPEED = 120 MPH (V) (3 SECOND GUST), Kzt = 1.0, I = 1,0
SNOW LOAD = PROJECT IS NOT LOCATED IN A SNOW REGION
BUILDING CODES = 2019 CBC

SEISMIC DESING DATA:		**MOMENT FRAME PC'S:**
BASIC SEISMIC FORCE RESISTING SYSTEM =		STEEL MOMENT FRAME
ANALYSIS PROCEDURE USED =		EQUIVALENT LATERAL FORCE
SEISMIC DESIGN CATEGORY =		E (PER CBC SECTION 1613A.6.6)
DESIGN BASE SHEAR:	24x40 BUILDING =	22490 # (ROOF, FLOOR, WALLS & PARTITIONS)
	36x40 BUILDING =	32810 # (ROOF, FLOOR, WALLS & PARTITIONS)
	48x40 BUILDING =	43130 # (ROOF, FLOOR, WALLS & PARTITIONS)

1: = 1.0 Cs2 = 0.597 R: = 3.5 SITE CLASS = D (ASSUMED)
Ss =3.73 MAPPED VALUE MAX / 0.75 Ss = 2.611 (FOR DESIGN VALUE MAX)
SDS =2.089 (SITE SPECIFIC DOCUMENTATION JUSTIFYING SDS SHALL BE SUBMITTED TO DSA PRIOR TO APPROVAL)
S1 =1.389 PER CBC FIGURE 1613A.6(2) SD1 = 1.574
RISK CATEGORY = II

FLOOD DESIGN DATE:

PROJECT IS NOT LOCATED IN A FLOOD ZONE

SOIL BEARING:
ALLOWABLE SOIL BEARING = 1,000PSF FOR WOOD SILL FOUNDATIONS

LIMITATIONS FOUNDATION PC ONLY:

FOUNDATION ONLY PC IS DESIGNED TO SUPPORT THE SUPERSTRUCTURE FOR THE RELOCATABLE BUILDINGS AS LISTED ON THIS DRAWING.

THE DESIGN CALCULATIONS ARE BASED ON THE FOLLOWING:
1. DAS APPROVED STOCKPILE BUILDINGS
2. ROOF OVERHANGS OF 5'-0" MAXIMUM
3. SINGLE SLOPE OR DUAL SLOPE BUILDINGS
WALL HEIGHT: 9'-0" MAXIMUM ON DUAL SLOPE BUILDINGS.
WALL HEIGHT: 10'-4" MAXIMUM ON SINGLE SLOPE BUILDINGS.
(HEIGHT DETERMINED FROM FINISH FLOOR IN BUILDING TO BOTTOM OF STEEL ROOF STRUCTURE: BEAMS OR ROOF HEADERS)
4. WALL DEAD LOAD OF 10PSF (NOT STUCCO)
5. FLOOR DEAD LOAD OF 8PSF

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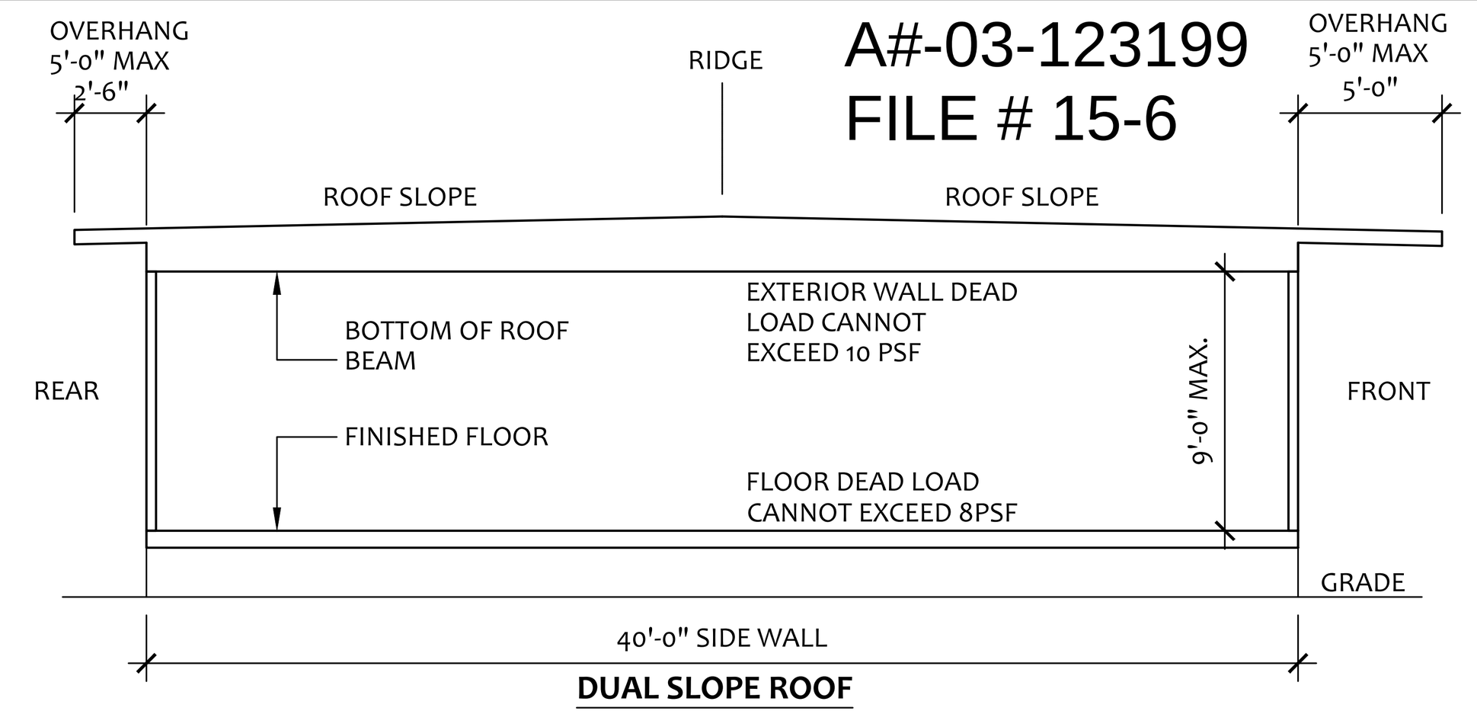
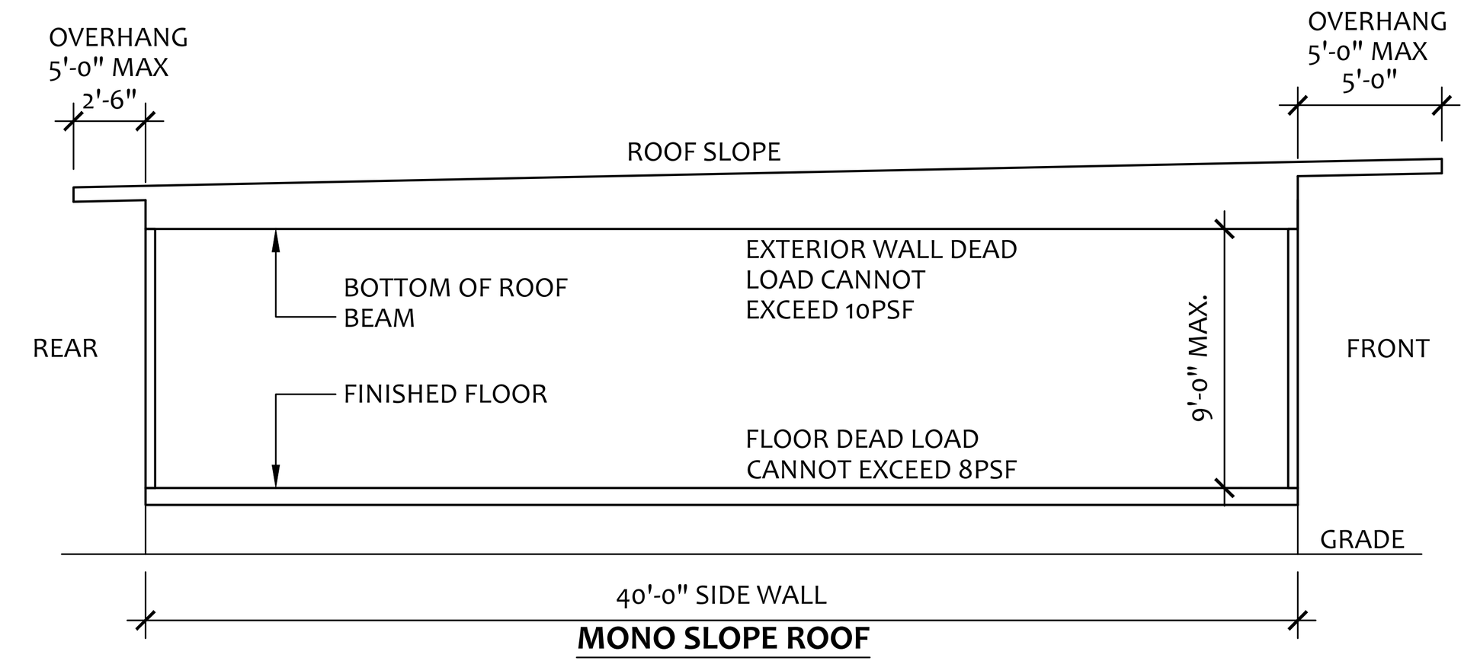
FILE # 15-6



DUAL SLOPE ROOF
NTS



MONO SLOPE ROOF
NTS

TYPICAL ELEVATIONS ARE SHOWN TO CLARIFY FOUNDATION PC ONLY LIMITATIONS DOCUMENTATION SHALL BE PROVIDED BY ENGINEER OR GENERAL RESPONSIBLE CHARGE TO BE REVIEWED AND APPROVED BY THE DSA STRUCTURAL PLAN REVIEWER

NOTE:

THE EXAMPLE FORM DSA–103 SHOWN IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTIRE PROJECT–SPECIFIC FORM DSA–103.

A FORM DSA–103 IS TO BE COMPLETED FOR EACH PROJECT APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA–103 IS TO BE CROSSED OUT ON THIS DRAWING

DSA
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES

DSA-103
List of Required Structural Tests & Special Inspections - 2019 CBC

INCREMENT #
DSA File No.: PC-125
Application No.: 04-120373
Date Submitted:
Revised:
Revised:

School Name	ELITE MODULAR UNIVERSAL FOUNDATION PC (SAMPLE T&I) **WOOD**	District	ELITE MODULAR LEASING & SALES INC.

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.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. **Note:** A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests and inspections finally selected. **For more information on use of this form, see DSA-103.INSTR.**

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE¹	PERFORMED BY²	CODE REFERENCE AND NOTES
-	**SOILS**			
-	**1. GENERAL:**	Table 1705A.6		
X	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, and • materials below footings are adequate to achieve the design bearing capacity	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
+	**CONCRETE**	Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13		
+	**MASONRY**	TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5		
+	**STEEL, ALUMINUM**	Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10		
+	**WOOD**			
+	**OTHER**			

List of required verified report(s):

1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293

KEY to Columns

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**LOR** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**SI** – Indicates that the special inspection is to be performed by a special inspector

Jack Shively
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

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
APP. # 04-120373
AC N/A F/LS N/A SS
DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ELITE MODULAR
LEASING & SALES, INC.
P.O. BOX 78447
CORONA CA 92877
PHONE: 951-422-2500
FAX: 951-943-3074

PROJECT NAME:

SHEET TITLE:
STRUCTURAL SPECIFICATIONS WOOD FOUNDATIONS

ARCHITECT OF RECORD
SUBMISSION DATE

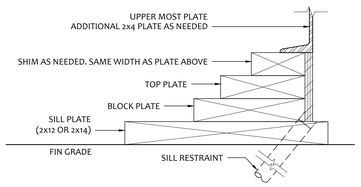
LICENSED ARCHITECT JACK F. SHIVELY STATE OF CALIFORNIA REN: 01/31/2023
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-120373 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 08/24/2021
2019 CBC
ORIGINAL PC STATE AGENCY APPROVAL

REVISIONS
1 2 3 4 5 6 7

PROJECT NO:
DRAWN BY: F.C.
SCALE: AS NOTED
DATE: AUGUST 23, 2021
SHEET NUMBER
WFS-01

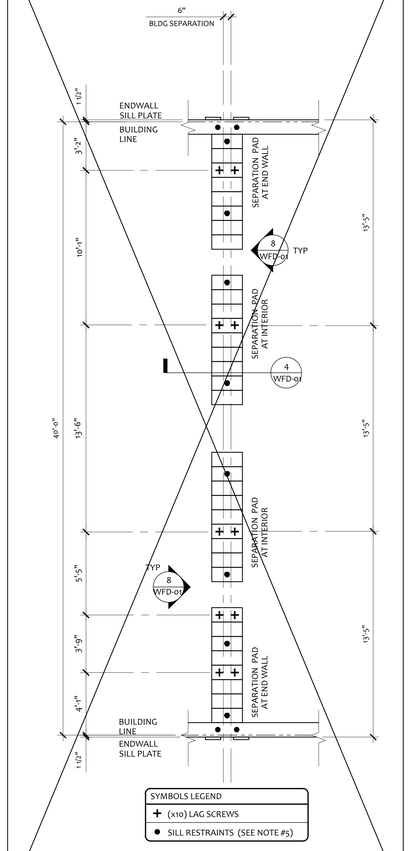
A#-03-123199
FILE # 15-6



FOUNDATION PLATE DESCRIPTION

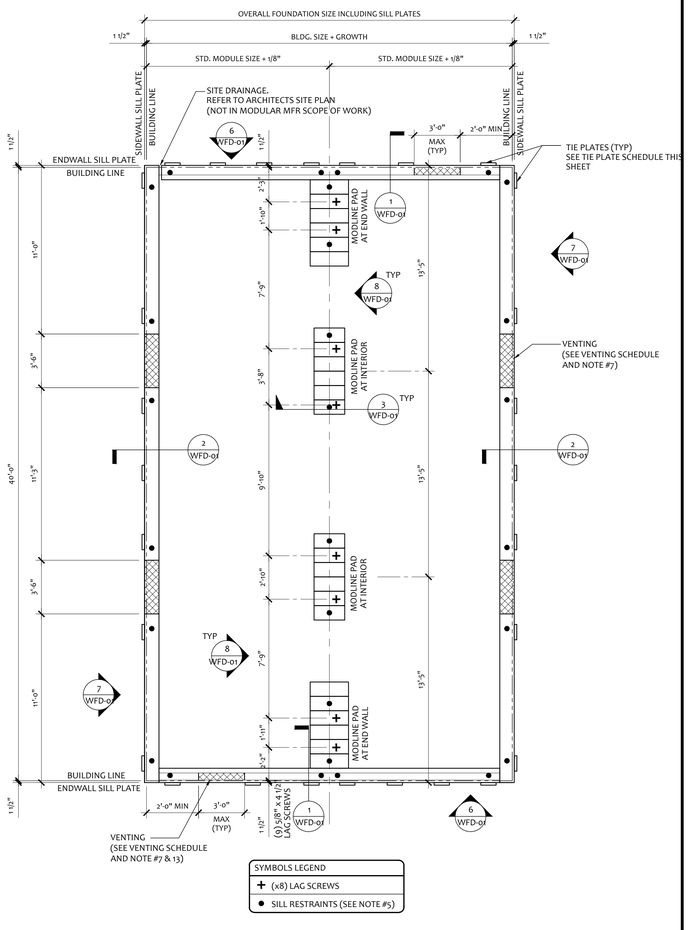
1. BUILDINGS OVER 2160 SF, MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION PER IR 16-1 ITEM 1.4.
2. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULAR FLOORS.
3. FOUNDATION VENTS THAT OCCUR UNDER RAMP LANDINGS, PROVIDE AN EQUAL AREA OF SCREENED VENT IN LANDING SKIRT.
4. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED HEM-FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING BY OTHERS. THE WOOD SILL FOOTING PLATE MAY SUPPORT CONTINUOUS BLOCKING AND SHEATHING SKIRT WHICH NEED NOT BE TREATED.
5. SILL RESTRAINT:
   THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. AN ACCEPTABLE DESIGN WOULD INCORPORATE ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPES OR ONE-INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" O.C. ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATIONS STRIP. PIPES SHOULD PENETRATE INTO SOIL, CONCRETE, AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE SUBMITTED TO DSA FOR REVIEW AND APPROVAL.
6. STACKED WOOD MEMBERS FOR FOUNDATIONS AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-153
7. VENTILATION OPENINGS SHALL BE COVERED FOR EITHER HEIGHT AND WIDTH WITH CORROSION - RESISTANT WIRE MESH, WITH A CLEAR "THROUGH" DIMENSION NOT EXCEEDING 1/8" ACTING AS A VERMIN BARRIER.
8. VENTING CALCULATION REQUIREMENTS FOR MULTIPLE BUILDING SETS MUST BE CALCULATED WITH OVERALL SQUARE FOOTAGE INCLUDING SEPARATION.
9. FOR FOUNDATION ANCHORAGE ON CONCRETE PAD, SEE DETAIL 15/WFD-01
10. IF OPTIONAL ENDWALL VENTS ARE APPLIED, SILL PLATE AND BLOCK PLATE MUST BE CONTINUOUS. VENT OPENINGS SHALL BE BROKEN ABOVE THE BLOCK PLATE
11. FOR FOUNDATION SPLICE - SEE 5/WFD-01
12. CRAWLSPACE VAPOR RETARDERS (OPTIONAL):
    THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1203.3.2(2).
    MATERIALS:
    GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
    INSTALLATION RECOMMENDATIONS:
    OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; ATTACH VAPOR RETARDER OVER SILL PLATE PER 10/WFD-01; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
13. ENDWALL VENTS (IF REQ'D) SHALL BE LOCATED A MIN OF 24" FROM BUILDING CORNERS. MAXIMUM ONE ENDWALL VENT PER 12'-0" MODULE
14. CONCRETE FLOOR LOAD IS INCLUDED IN THE CONCRETE FOUNDATION OPTION FOR FOUNDATION & ANCHORAGE DESIGN, I.E. THERE IS NO CONCRETE FLOOR FOR WOOD FOUNDATION OPTION. THERE IS CONCRETE FLOOR FOR CONCRETE FOUNDATION OPTION
15. IF PARAPET IS HIGHER THAN 18". COMBINATION REQUIRES A 2 X 14" OR 2 X 16" SILL PLATE @ EXTERIOR OF BUILDING
16. 150 PSF FLOOR LIVE LOAD OPTION CANNOT BE USED WITH THE STUCCO WALL OPTION
17. VENTS AT MODLINE FOUNDATIONS. THE MINIMUM CRITERIA REQUIREMENT AS FOLLOWS:
    A. VENTS HAVE A MINIMUM OF 2 SILL /BLOCKING PLATES BENEATH.
    B. VENTS ARE A MAXIMUM OF 6" LONG x 3" MIN. HIGH.
    C. VENTS ARE SPACED A MINIMUM OF 8" APART (EDGE TO EDGE) AND 24" MIN. FROM CORNERS.

NOTES



FOOTING AT SEPARATION-ONE BUILDING | 2

OPTION	MANUFACTURER	STD. MODULE SIZE	BLDG SIZE + GROWTH	OVERALL FOUNDATION SIZE INCLUDING SILL PLATES
☐	SILVER CREEK	11' - 11"	23' - 10 1/4"	24' - 1 1/4"
☐	MODTECH	11' - 11 1/2"	23' - 11 1/4"	24' - 2 1/4"
☐	AURORA	12' - 0"	24' - 0 1/4"	24' - 3 1/4"
☒	MSI	12' - 0"	24' - 0 1/4"	24' - 3 1/4"
☐	CURRENT / SMI	12' - 0"	24' - 0 1/4"	24' - 3 1/4"
☐	PACE SETTER	11' - 10"	23' - 8 1/4"	23' - 11 1/4"
☐	WALDEN	11' - 11 1/4"	23' - 10 5/8"	24' - 1 5/8"
☐	EBS	11' - 10"	23' - 8 1/4"	23' - 11 1/4"
☐	MBS	11' - 10"	23' - 8 1/4"	23' - 11 1/4"
☐	STEELGUARD	12' - 0"	24' - 0 1/4"	24' - 3 1/4"



NOTE:
- VENTING REQUIREMENTS MAY BE RE-CALCULATED DEPENDING ON GRADE CONDITIONS ON A PER-JOB BASIS
- VERIFY FOUNDATION WIDTH WITH BUILDING's MODULE SIZES PRIOR TO SETTING WOOD PLATES

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

WOOD FOUNDATION PLATE SCHEDULE - 50 + 15 PSF

PLATES	END WALL	SIDE WALL	MODLINE PAD AT END WALL	MODLINE PAD AT INTERIOR	SEPARATION PAD AT ENDWALL ONE BLDG	SEPARATION PAD AT INTERIOR ONE BLDG
ADDITIONAL TOP PLATE (AS NEEDED)	2x4	2x4	2x6	2x6	2x12	2x12
TOP	2x6	2x6	2x8	2x8	2x12	2x12
BLOCK	2x8	2x8	2x10	2x10	2x12	2x12
SILL	2x12 (2x14)[15]	2x12 (2x14)[15]	(6) 2x12 x 2'-0"	(6) 2x12 x 2'-6"	(7) 2x12 x 2'-0"	(10) 2x12 x 2'-0"

KEY PLAN VENTING SCHEDULE

VENT "A" (SIDEWALL): 3'-6" x 4.5" = 1.3125 S.F. VENTILATION
"VENT OPENING BELOW CONT UPPER PLATE"

VENT "B" (ENDWALL): 3'-0" x 3" = 0.75 S.F. VENTILATION
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATE"

VENT "C" (ENDWALL): 3'-0" x 4 1/2 " = 1.125 S.F. VENTILATION
(OPTIONAL AT MULTIPLE BLDG SETS) "VENT OPENING ABOVE CONT. SILL AND BLOCK PLATES"

NAILING SCHEDULE

BUILDING SIZE	
24' x 40'	**SEE NAILING SCHEDULE ON 16/FD-01 FOR NAILING SPACING & PLATE ATTACHMENT**

VENTING SCHEDULE

BUILDING SIZE	BUILDING AREA	REQ. VENTING	SIDE VENTING	END VENTING	TOTAL VENTING SUPPLIED
24' x 40'	960 SF	6.4 SF (1/150)	3'-6" x 4.5" = (4) 1.3125 SF/EA (5.25 SF TOTAL)	3'-0" x 3" = (2).75 SF/EA (1.5 SF TOTAL)	6.75 SF

TIE PLATE SCHEDULE

BUILDING SIZE	SIDE WALL TIE PLATES	END WALL TIE PLATES	TOTAL NUMBER OF TIE PLATES
24' x 40'	7	7	28

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

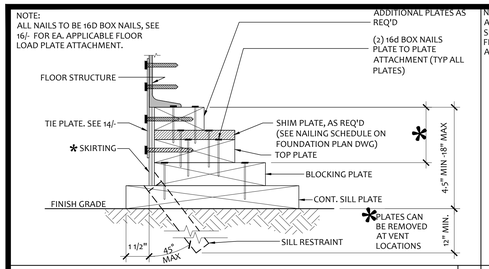
SHEET TITLE:
WOOD FOUNDATION PLAN
24x40 (50 & 50+15 PSF)

ARCHITECT OF RECORD SUBMISSION DATE

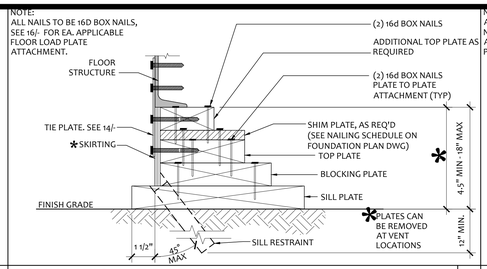
REVISIONS
1 2 3 4 5 6 7

PROJECT NO:
DRAWN BY: F.C.
SCALE: AS NOTED
DATE: AUGUST 23, 2021

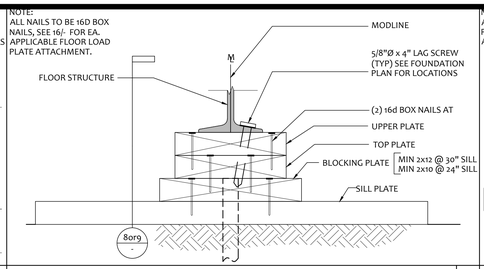
SHEET NUMBER
WF-04



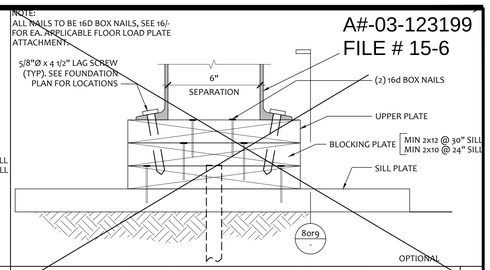
FOUNDATION AT END WALL DETAIL SCALE : 3"=1'-0" | 1



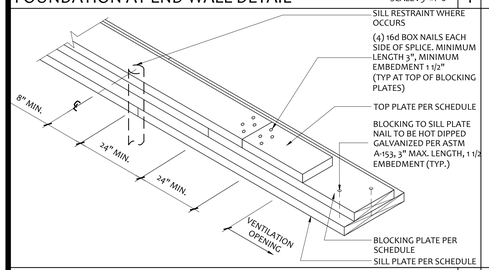
FOUNDATION AT SIDE WALL DETAIL SCALE : 3"=1'-0" | 2



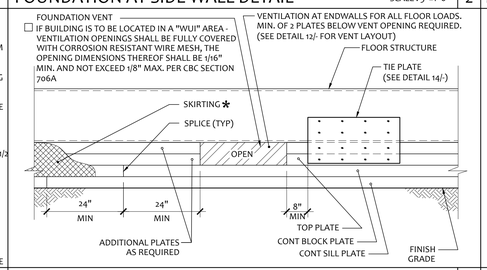
FOUNDATION AT MODLINE DETAIL SCALE : 3"=1'-0" | 3



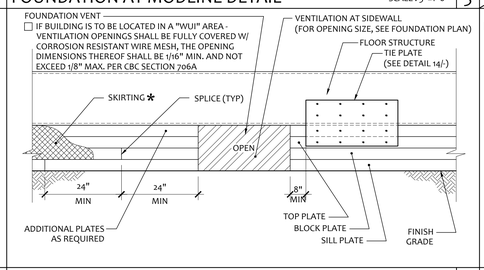
FOUNDATION AT ADJACENT BUILDING DETAIL SCALE : 3"=1'-0" | 4



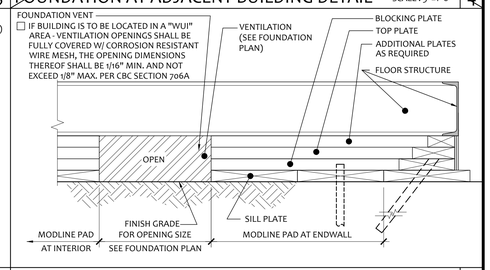
FOUNDATION SPLICE DETAIL SCALE : NTS | 5



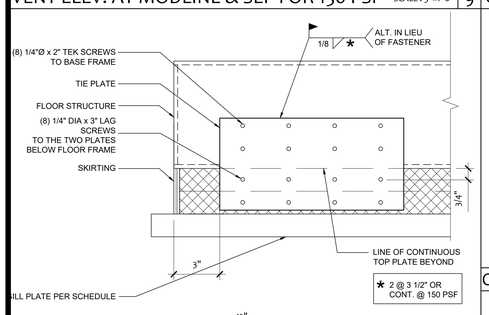
FOUNDATION ASSEMBLY END WALL ELEVATION SCALE : 1 1/2"=1'-0" | 6



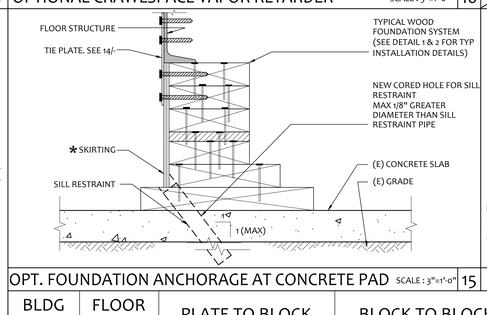
FOUNDATION ASSEMBLY SIDEWALL ELEVATION SCALE : 1 1/2"=1'-0" | 7



FOUNDATION AT MODLINE & SEPARATION SCALE : 1 1/2"=1'-0" | 8



VENT ELEV. AT MODLINE & SEP FOR 150 PSF SCALE : 3"=1'-0" | 9



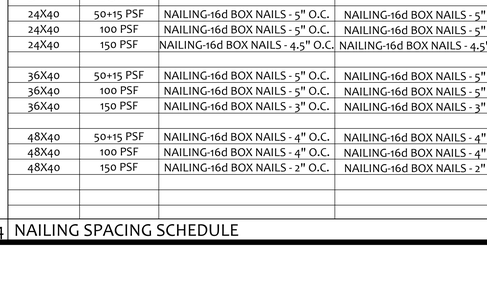
OPTIONAL CRAWLSPACE VAPOR RETARDER SCALE : 3"=1'-0" | 10

FOUNDATION AT ADJACENT BUILDING SCALE : 3"=1'-0" | 11

END WALL VENT SCALE : 1 1/2"=1'-0" | 12

* FOR W.U.I. COMPLIANCE, PROVIDE NON COMBUSTIBLE SKIRTING MATERIAL PER ICC-ES ESR-4856

TIE PLATE DETAIL SCALE : 3"=1'-0" | 14



OPT. FOUNDATION ANCHORAGE AT CONCRETE PAD SCALE : 3"=1'-0" | 15

PLATE LAYOUT AT BUILDING PERIMETER SCALE : 1 1/2"=1'-0" | 15A

BLDG SIZE	FLOOR LOAD	PLATE TO BLOCK	BLOCK TO BLOCK	BLOCK TO SILL PLATE	SHIM TO BLOCK OR SILL PLATE	PLATE TO PLATE AT ADJACENT BLDGs	PLATE TO PLATE AT IDE FLANGE & TOED-OUT CHANNELS
24X40	50+15 PSF	NAILING-16d BOX NAILS - 5" O.C.	NAILING-16d BOX NAILS - 5" O.C.	NAILING-16d BOX NAILS - 5" O.C.	NAIL SHIMS ITH 6 - 10d BOX NAILS	NAILING-16d BOX NAILS - 2.5" O.C.	NAILING-16d BOX NAILS - 2" O.C.
24X40	100 PSF	NAILING-16d BOX NAILS - 5" O.C.	NAILING-16d BOX NAILS - 5" O.C.	NAILING-16d BOX NAILS - 5" O.C.	NAIL SHIMS ITH 6 - 10d BOX NAILS	NAILING-16d BOX NAILS - 2.5" O.C.	NAILING-16d BOX NAILS - 2" O.C.
24X40	150 PSF	NAILING-16d BOX NAILS - 4.5" O.C.	NAILING-16d BOX NAILS - 4.5" O.C.	NAILING-16d BOX NAILS - 4.5" O.C.	NAIL SHIMS ITH 6 - 10d BOX NAILS	NAILING-16d BOX NAILS - 1.5" O.C.	NAILING-16d BOX NAILS - 1" O.C.
36X40	50+15 PSF	NAILING-16d BOX NAILS - 5" O.C.	NAILING-16d BOX NAILS - 5" O.C.	NAILING-16d BOX NAILS - 5" O.C.	NAIL SHIMS ITH 6 - 10d BOX NAILS	NAILING-16d BOX NAILS - 2" O.C.	NAILING-16d BOX NAILS - 1.5" O.C.
36X40	100 PSF	NAILING-16d BOX NAILS - 5" O.C.	NAILING-16d BOX NAILS - 5" O.C.	NAILING-16d BOX NAILS - 5" O.C.	NAIL SHIMS ITH 6 - 10d BOX NAILS	NAILING-16d BOX NAILS - 2" O.C.	NAILING-16d BOX NAILS - 1.5" O.C.
36X40	150 PSF	NAILING-16d BOX NAILS - 3" O.C.	NAILING-16d BOX NAILS - 3" O.C.	NAILING-16d BOX NAILS - 3" O.C.	NAIL SHIMS ITH 6 - 10d BOX NAILS	NAILING-16d BOX NAILS - 1" O.C.	NAILING-16d BOX NAILS - .75" O.C.
48X40	50+15 PSF	NAILING-16d BOX NAILS - 4" O.C.	NAILING-16d BOX NAILS - 4" O.C.	NAILING-16d BOX NAILS - 4" O.C.	NAIL SHIMS ITH 6 - 10d BOX NAILS	NAILING-16d BOX NAILS - 1.5" O.C.	NAILING-16d BOX NAILS - 1" O.C.
48X40	100 PSF	NAILING-16d BOX NAILS - 4" O.C.	NAILING-16d BOX NAILS - 4" O.C.	NAILING-16d BOX NAILS - 4" O.C.	NAIL SHIMS ITH 6 - 10d BOX NAILS	NAILING-16d BOX NAILS - 1.5" O.C.	NAILING-16d BOX NAILS - 1" O.C.
48X40	150 PSF	NAILING-16d BOX NAILS - 2" O.C.	NAILING-16d BOX NAILS - 2" O.C.	NAILING-16d BOX NAILS - 2" O.C.	NAIL SHIMS ITH 7 - 10d BOX NAILS	NAILING-16d BOX NAILS - .75" O.C.	NAILING-16d BOX NAILS - 5/8" O.C.

NAILING SPACING SCHEDULE | 16

A#-03-123199
FILE # 15-6

PROJECT SPECIFIC STATE AGENCY APPROVAL

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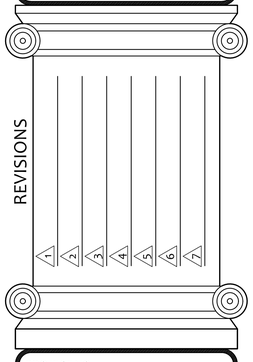
PROJECT NAME:

SHEET TITLE:
FOUNDATION DETAILS
WOOD

ARCHITECT OF RECORD SUBMISSION DATE

REVISIONS



PROJECT NO:
DRAWN BY: F.C.
SCALE: AS NOTED
DATE: AUGUST 23, 2021
SHEET NUMBER
WFD-01