THE LINE SHOWN ABOVE IS ONE INCH LONG ON ARCH D SHEETS ORIGINAL PAGE SIZE

EL MONTE UNION HIGH SCHOOL DISTRICT

EMUSD ARROYO HS - RELOCATION OF EXISTING PORTABLES

4921 Cedar Ave
El Monte, CA 91732

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

HMC Architects DESIGN FOR GOOD
3361-008-000
633 W. 5TH STREET, THIRD FLOOR, LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

NOT FOR CONSTRUCTION

PROJECT TEAM

OWNER
EL MONTE UNION HS DISTRICT
3537 JOHNSON AVE. EL MONTE, CA 91731
626 444 9005

ARCHITECT
HMC ARCHITECTS
533 W. 5TH ST. THIRD FLR, LOS ANGELES, CA 90071
213 542 8300

CIVIL
VCA ENGINEERS
1041 S. GARFIELD AVE, SUITE 210, ALHAMBRA, CA91801
323 729 6098

ELECTRICAL
BUDLONG & ASSOCIATES, INC
633 W. 5TH ST. 26TH FLOOR, LOS ANGELES, CA 90071
(818) 638-8780

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATION OF EXISTING PORTABLES

SHEET NAME:

COVER SHEET

SCHEMATIC DESIGN

DATE: **2026.01.20**

CLIENT PROJ NO: **3361-008-101**

SHEET:

G0.10

Autodesk Docs://3361008102 EMUSD Arroyo Relo Existing Portable Pkgs/ R24/3361008101-A-SITE.rvt
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PLEASE RECYCLE

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

GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
5. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
6. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
9. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
11. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
12. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
13. CHANGES TO THE APPROVED DRAWINGS AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER.
14. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
15. ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
16. THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK, INCLUDING BUT NOT LIMITED TO INSTALLATION OF CONDUIT, MANHOLES, PULLBOXES, ETC WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURRING OUTSIDE OF SHOWN LIMIT OF WORK LINES.
17. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
18. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR.
19. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. INSPECTOR TO BE CLASS 1.
20. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. THE REPORTS SHALL BE SUBMITTED TO ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, OWNER, INSPECTOR OR RECORD, AND THE DSA FIELD ENGINEER. THE REPORTS OF ANY FAILURES OF TESTS AND INSPECTIONS ARE TO BE SUBMITTED TO DSA DISTRICT STRUCTURAL ENGINEER.
21. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
22. SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
23. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR,, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
24. CONTRACTOR IS TO REVIEW AND COMPLY WITH ALL REQUIREMENTS AND MITIGATION MEASURES SET FORTH IN BOTH THE ENVIRONMENTAL IMPACT REPORT (ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT | SCH NO. 2002071120) INCLUDING ATTACHED BIOLOGICAL RESOURCES TECHNICAL REPORT.
25. NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.

CODES

PARTIAL LIST OF APPLICABLE CODES

2016	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2016	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2016 CALIFORNIA AMENDMENTS)
2016	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
2016	CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2016	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
2016	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2015 INTERNATIONAL EXISTING CODE AND 2016 CALIFORNIA AMENDMENTS)
2016	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2016	CALIFORNIA REFERENCED STANDARDS, PART 12,TITLE 24 C.C.R.
TITLE 19	C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2013	ASME A17.1/B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR AUTOMATIC FIRE SPRINKLER SYSTEMS (CA AMENDED)	2016 ED.
NFPA 14	STANDARD FOR STANDPIPE AND HOSE SYSTEMS	2013 ED.
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 ED.
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2013 ED.
NFPA 20	STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION	2016 ED.
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 ED.
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES	2016 ED.
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE (CA AMENDED)	2016 ED.
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 ED.
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 ED.
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNAL APPLIANCES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 ED.
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 ED.
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 ED.
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS	2012 ED.

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2016 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

STATEMENT OF GENERAL CONFORMANCE

( ) THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET FOR MODULAR CLASSROOM BUILDING
( ) THIS DRAWING PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

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

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (B))

I CERTIFY THAT:

THE PC APPROVED MANUFACTURER DRAWINGS PC#04-113886 LISTED ON THE INDEX SHEET ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND THEY HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE DATE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

PRINT NAME

X-00000 01-01-22
LICENSE NUMBER EXPIRATION DATE

PROJECT DESCRIPTION

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.

DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION

1. 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, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

PROJECT DATA

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SHEET INDEX

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A1.22	PROJECT SITE PLAN
A2.01	FLOOR PLAN
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C-1.0	GENERAL NOTES, LEGENDS, AND ABBREVIATIONS
C-1.1	OVERALL SITE PLAN
CD-1.0	ENLARGED SITE DEMOLITION PLAN
C-2.0	ENLARGED SITE CONTROL PLAN
C-3.0	ENLARGED SITE GRADING PLAN
C-4.0	MISCELLANEOUS DETAILS
C-5.0	EROSION CONTROL PLAN
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E0.02	ELECTRICAL LEGEND AND ABBREVIATIONS
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E0.04	ELECTRICAL PANEL SCHEDULES
E1.01	ELECTRICAL DEMOLITION SITE PLAN
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NUMBER	NAME
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DETAILS: 1	
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N-1	GENERAL NOTES AND SPECIFICATIONS
1	FLOOR PLAN & NOTES
2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS AND NOTES
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S1D	CONCRETE FOUNDATION PLANS
S1F	FOUNDATION DETAILS
S2	FLOOR FRAMING PLAN AND DETAILS
S2A	BUILDING SECTIONS AND WALL DETAILS
S3	ROOF FRAMING PLAN AND DETAILS
S3A	ROOF SECTIONS AND DETAILS
S4	WALL FRAMING ELEVATIONS AND FRAMING DETAILS
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NUMBER	NAME
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A3.01	ROOF PLAN
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A4.01	EXTERIOR ELEVATIONS
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F2.01a	FOUNDATION DETAILS
S1.0	FLOOR FRAMING PLAN
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S2.2	ROOF FRAMING DETAILS
S3.0	STRUCTURAL ELEVATIONS AND DETAILS
S4.0	WALL FRAMING
S5.0	WALL FRAMING DETAILS
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R1.02	RAMP/STAIR DETAILS
R5.01	5 FOOT RAMP/LANDING PLAN
F2.02	FOUNDATION PLAN
F2.11	FOUNDATION DETAILS
F3.01	FOUNDATION PLAN
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F3.03	FOUNDATION PLAN
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G-3	ARCHITECTURAL STANDARD DETAILS
G-4	PLUMBING GENERAL NOTES AND DETAILS
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A-2-24	EXTERIOR ELEVATIONS
A-3-24	ROOF PLAN
A-4-24	INTERIOR ELEVATIONS
A-6-24	REFLECTED CEILING PLAN AND DETAILS
M-1-24	MECHANICAL PLAN
E-1-24	ELECTRICAL PLAN
S-1	STRUCTURAL GENERAL NOTES
S-1A	STRUCTURAL GENERAL NOTES
S-5A	DOUBLE SLOPE COLD ROLLED/TRUSS RIGID FRAME
S-10	FLOOR FRAMING PLAN
S-11	FLOOR CONSTRUCTION DETAILS
S-20	SINGLE OR DOUBLE ROOF PITCH EXTERIOR WALLS
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S-30	GENERAL INT AND EXT WALL CONSTRUCTION DETAILS
S-40	GENERAL ROOF CONSTRUCTION LAYOUT
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S-70	STEEL TRUSS FOR DOUBLE PITCH ROOF
F-1	WOOD FOUNDATION
R-1	RAMP FRAMING PLAN AND DETAILS
GENERAL DETAILS: 7	
Grand total: 110	

SYMBOL LEGEND

NORTH ARROW
TICK INDICATES PLAN NORTH
ARROW INDICATES TRUE NORTH

ELEVATION CALLOUT (TYPICAL FOR EXTERIOR)
LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT (TYPICAL FOR INTERIOR)
LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT - ALT. (FOR EXTERIOR AND INTERIOR)
LOCATION & SHEET WHERE ELEVATION IS DRAWN

SECTION CALLOUT
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

DETAIL CALLOUT
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

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

GRID BUBBLE
EXISTING BUILDING GRID SYMBOL
GRID NUMBER
NEW BUILDING GRID SYMBOL

DOOR CALLOUT
101A
DOOR NUMBER

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

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

WALL TYPE CALLOUT
AS6A-A, AS4A, 55 1B
WALL TYPE MARK - SEE A10.11
WALL STC RATING
WALL FIRE RATING TYPE

MATCHLINE REFERENCE
LOCATION ON SHEET
SHEET WHERE PLAN IS DRAWN

KEYNOTE
KEYNOTE NUMBER (SEE LEGEND ON SHEET)

ROOM EXITING INFORMATION
AREA (SQ FT)
OCCUPANT LOAD (AREA DIVIDED BY LOAD FACTOR)
OCCUPANT LOAD FACTOR (REFER TO TABLE 1004.1.1)
OCCUPANCY TYPE
NUMBER OF EXITS REQUIRED (REFER TO TABLE 1015.1)

WIC CASEWORK TAG
MANUFACTURER REFERENCE AND MODEL NUMBER
LOCK
CABINET DEPTH
CABINET HEIGHT
CABINET WIDTH

DISCIPLINE	
G	GENERAL
C	CIVIL
L	LANDSCAPE
A	ARCHITECTURE
I	INTERIORS
Q	EQUIPMENT
S	STRUCTURAL
P	PLUMBING
M	MECHANICAL
E	ELECTRICAL
FA	FIRE ALARM
T	TELECOM
AV	AV EQUIPMENT
K	KITCHEN
FP	FIRE PROTECTION

SHEET TYPE	
0	CODE ANALYSIS, NOTES
1	SITE PLAN
2	FLOOR PLAN
3	CEILING PLAN
4	ROOF PLAN
5	EXTERIOR ELEVATIONS
6	SECTIONS
7	ENLARGED PLANS
8	INTERIOR ELEVATIONS
9	SCHEDULES
10	DETAILS

BUILDING LETTER, SEGMENT, (USER DEFINED)
USED ONLY IF REQUIRED. IF NOT, COLUMN IS OMITTED.

DISCIPLINE | SHEET TYPE | SERIES / ORDER | USER DEFINED (IF APPLICABLE)
A A 1 . 1 1 A . A
BULIDING LETTER (IF APPLICABLE) | FLOOR LEVEL OR SEQUENTIAL ORDER | SEGMENT (IF APPLICABLE)

ABBREVIATIONS

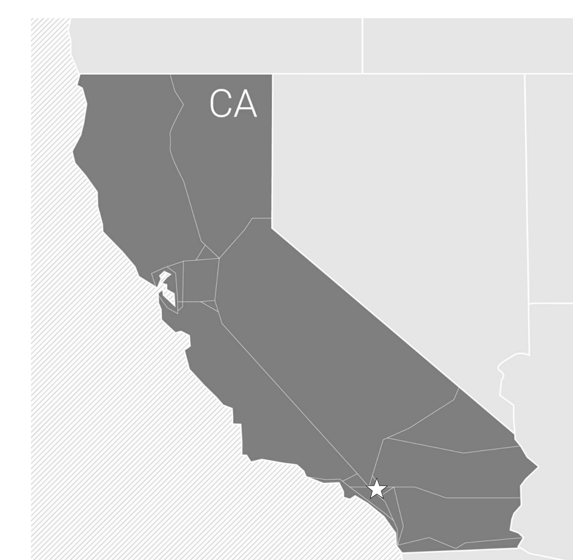
(E)	EXISTING
AB	ANCHOR BOLT
AC PAVING	ASPHALTIC CONCRETE PAVING
ACC	ACCESS/ACCESSIBLE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
ATT	ATTENUATION
AUTO	AUTOMATIC
BD	BOARD
BLCG	BLOCKING
BUR	BUILT UP ROOFING
CABT	CABINET
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMP	COMPRESSION / COMPOSITE
CF	CUBIC FEET
COORD	COORDINATE
CORR	CORRUGATED
CT	CERAMIC TILE
CTSK	COUNTER SKUNK
CW	CURTAINWALL
DEPR	DEPRESSED / DEPRESSION
DF	DRINKING FOUNTAIN
DIM	DIMENSION
DISP	DISPENSER
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
E/W	EACH WAY
EIFS SYSTEM	EXTERIOR INSULATION FINISH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION / ELEVATOR
ENCL	ENCLOSE / ENCLOSURE
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
ESC	ESCUTCHEON
EWC	ELECTRIC WATER COOLER
EXP	EXPOSED
FA	FIRE ALARM
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER W/ CABINET
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FSH	FLAT HEAD SCREW
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FIREPROOFING
FR	FIRE RATED
FRG	FIRE RATED GLASS

FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FS	FINISH SURFACE
FTG	FOOTING
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS TYPE
GLB	GLUE LAMINATED BEAM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTIC
HB	HOSE BIBB
HD	HEAVY DUTY
HDR	HEADER
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HP	HIGH POINT
HSS	HOLLOW STEEL SECTION
ID	INSIDE DIAMETER
INT	INTERIOR
INV	INVERT
LANDS	LANDSCAPE
LAV	LAVATORY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT WT	LIGHT WEIGHT
LVR	LOUVER
MACH	MACHINE
MB	MACHINE BOLT
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NIC	NOT IN CONTRACT
NR	NON RATED
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O/	OVER
O/A	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFVI	OWNER FURNISHED, VENDOR INSTALLED
OH	OPPOSITE HAND
OPER	OPERABLE
OPNG	OPENING
ORD	OVERFLOW ROOF DRAIN
P/L	PROPERTY LINE
PA	PUBLIC ADDRESS
PAF	POWDER ACTUATED FASTENER PAVING
PCC	PORTLAND CEMENT CONCRETE PAVING
PED	PEDESTRIAN
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PH	PANIC HARDWARE
PIV	POST INDICATOR VALVE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PNL	PANEL
PNT	PAINT / PAINTED
POC	POINT OF CONNECTION
POLY ISO	POLYISOCYANURATE
PREFIN	PREFINISHED
PREP	PREP / PREPARATION

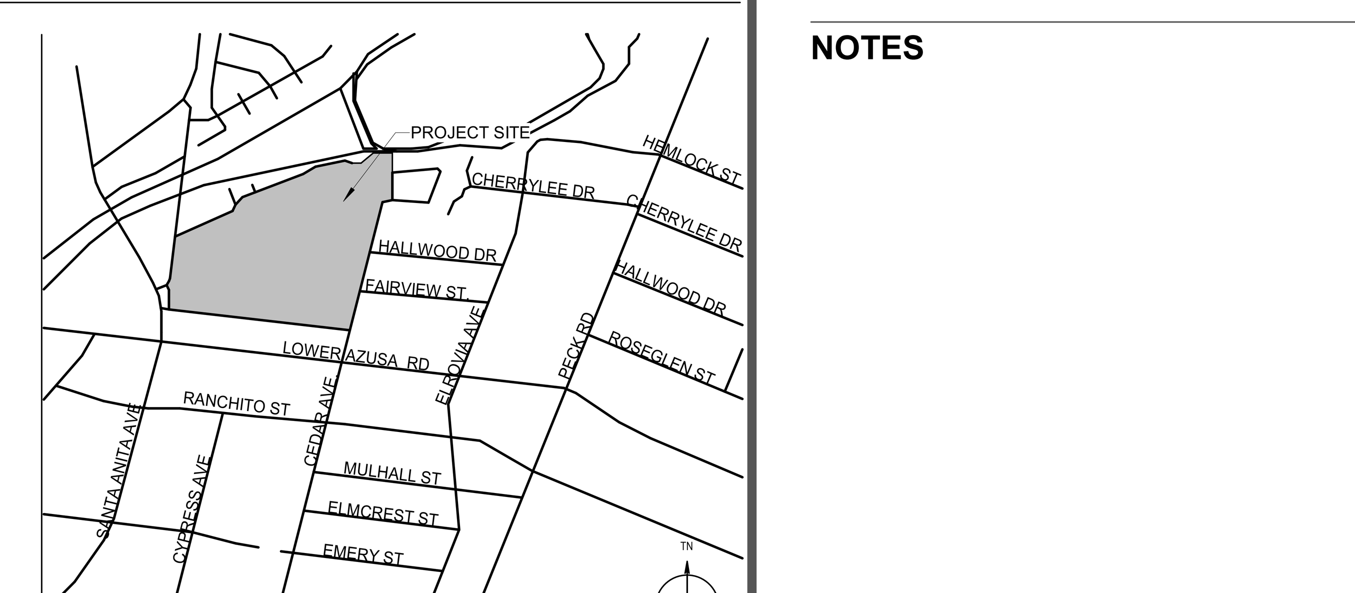
PTC	POST TENSIONED CONCRETE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION / SYSTEM
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RADIUS, RISER
RB	RESILIENT BASE
RD	ROOF DRAIN
RECEPT	RECEPTACLE
REF	REFERENCE
REFL	REFLECT(ED), (IVE)
REFL	REFLECT(ED), (IVE)
REFR	REFRIGERATOR
REINF	REINFORCE/REINFORCED/ REINFORCEMENT
REM	REMOVE
RH	ROUND HEAD
RHS	ROUND HEAD SCREW
RO	ROUGH OPENING
ROW	RIGHT OF WAY
SCH	SCHEDULE (FOR PIPE)
SCHED	SCHEDULE / SCHEDULING
SD	STORM DRAIN / SOAP DISPENSER
SECT	SECTION
SG	SAFETY GLASS
SHT	SHEET
SHTG	SHEATHING
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPOSAL
SOV	SHUT OFF VALVE
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STL	STEEL
STSMS SCREW	SELF TAPPING SHEET METAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
TO	TOP OF
TOC	TOP OF CURB / CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TS	TACKABLE SURFACE
U/C	UNDER CABINET (OR COUNTER
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VAC	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WGT	WEIGHT
WH	WATER HEATER
WP	WATERPROOFING/WALL PROTECTION
WR	WATER RESISTANT
WRGB	WATER RESISTANT GYPSUM BOARD
WS	WOOD SCREW
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC

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

STATE MAP



VICINITY MAP



OVERALL SITE PLAN

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ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
**4921 Cedar Ave
El Monte, CA 91732**

PROJECT:
EMUSD ARROYO HS - RELOCATION OF EXISTING PORTABLES

SHEET NAME:
PROJECT DATA SHEET

SCHEMATIC DESIGN

DATE: **2026.01.20** CLIENT PROJ NO: **3361-008-101**

SHEET:
G0.11

PLEASE RECYCLE

Autodesk Docs://3361008102 EMUSD Arroyo Relo Existing Portable Pkg4 R24/3361008101-A-SITE.rvt
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DESIGN PROFESIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEET THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBLITY 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 ELEIMATES COMPONENTS OF PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THE INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT WHAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHHOLD LIMITATIONS OR A FINDING OF UNRESANOBLE HARDSHIP ARE INDICATED IN THESE CONSTUCTION DOCUMENTS.

DURING CONSTRUCTION IF POT ITEMS WHITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION DOCUMENT.

FOR ACCESSIBLE PATH OF TRAVEL COMPLIANCE OF EXISTING CAMPUS, SEE DSA APPLICATION 03-108334.

PARKING COUNT

(E) PARKING LOT M:
STANDARD STALLS: 160
ACCESSIBLE STALLS: 6 (2 VAN ACCESSIBLE) (6 REQUIRED)

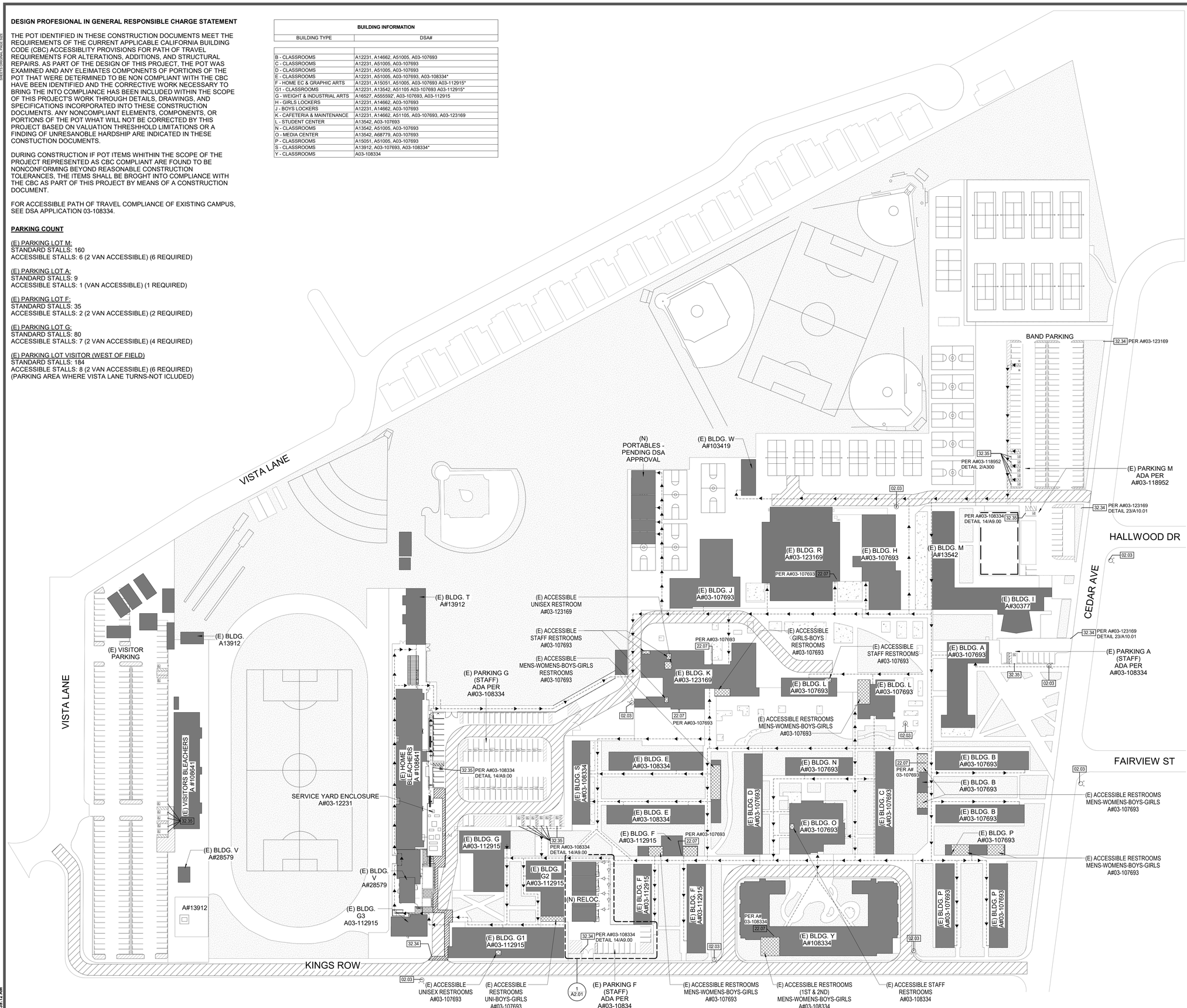
(E) PARKING LOT A:
STANDARD STALLS: 9
ACCESSIBLE STALLS: 1 (VAN ACCESSIBLE) (1 REQUIRED)

(E) PARKING LOT F:
STANDARD STALLS: 35
ACCESSIBLE STALLS: 2 (2 VAN ACCESSIBLE) (2 REQUIRED)

(E) PARKING LOT G:
STANDARD STALLS: 80
ACCESSIBLE STALLS: 7 (2 VAN ACCESSIBLE) (4 REQUIRED)

(E) PARKING LOT VISITOR (WEST OF FIELD)
STANDARD STALLS: 184
ACCESSIBLE STALLS: 8 (2 VAN ACCESSIBLE) (6 REQUIRED)
(PARKING AREA WHERE VISTA LANE TURNS-NOT ICLUDED)

BUILDING INFORMATION	
BUILDING TYPE	DSA#
B - CLASSROOMS	A12231, A14662, A51005, A03-107693
C - CLASSROOMS	A12231, A51005, A03-107693
D - CLASSROOMS	A12231, A51005, A03-107693
E - CLASSROOMS	A12231, A51005, A03-107693, A03-108334*
F - HOME EC & GRAPHIC ARTS	A12231, A15051, A51005, A03-107693 A03-112915*
G1 - CLASSROOMS	A12231, A13542, A51105 A03-107693 A03-112915*
G - WEIGHT & INDUSTRIAL ARTS	A16527, A555592', A03-107693, A03-112915
H - GIRLS LOCKERS	A12231, A14662, A03-107693
J - BOYS LOCKERS	A12231, A14662, A03-107693
K - CAFETERIA & MAINTENANCE	A12231, A14662, A51105, A03-107693, A03-123169
L - STUDENT CENTER	A13542, A03-107693
N - CLASSROOMS	A13542, A51005, A03-107693
O - MEDIA CENTER	A13542, A68779, A03-107693
P - CLASSROOMS	A15051, A51005, A03-107693
S - CLASSROOMS	A13912, A03-107693, A03-108334*
Y - CLASSROOMS	A03-108334



1ST FLOOR - ARCHITECTURAL SITE BUILDING PLAN 1 1" = 60'-0"

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Δ	DESCRIPTION	DATE
	SCHEMATIC DESIGN	01/23/2026

KEYNOTES

02.03	(E) FIRE HYDRANT
22.07	(E) HIGH & LOW DRINKING FOUNTAIN
32.34	(E) TOW-AWAY SIGNAGE
32.35	(E) ADA PARKING STALL SIGNAGE

NOTES

LEGEND

- PARKING LOT STRIPING
- (E) FIRE LANE ACCESS
- EXISTING BUILDINGS (S) IN SCOPE
- EXISTING BUILDING(S) & STRUCTURE(S) NOT IN SCOPE
- ACCESSIBLE RESTROOMS
- APPROXIMATE LIMIT OF WORK.
- (N) ACCESSIBLE PATH OF TRAVEL
- (E) ACCESSIBLE PATH OF TRAVEL DSA# 03-108334
- (E) ACCESSIBLE PATH OF TRAVEL DSA# 03-123169

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATION OF EXISTING PORTABLES

SHEET NAME:

CODE SITE PLAN

SCHEMATIC DESIGN

DATE: **2026.01.23** | CLIENT PROJ NO: **3361-008-101**

SHEET:

G1.11

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ARCHITECTURAL DEMOLITION SITE PLAN 1 1" = 60'-0"

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Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO G-SERIES SHEETS FOR ADDITIONAL INFO AND CODE REQUIREMENTS.
3. FOR ADDITIONAL ELEVATION CALLOUTS SEE ENLARGED PLANS.
4. REFER TO PARTIAL PLANS FOR MORE INFORMATION. OVERALL PLANS ARE INTENDED TO PROVIDE CONTEXT FOR PARTIAL PLANS.

LEGEND

- APPROXIMATE LIMIT OF WORK. REFER TO ADDITIONAL DRAWINGS FOR WORK WHICH MAY EXTEND BEYOND THIS APPROXIMATE LIMIT OF WORK LINE.
- PROPERTY LINE
- EXISTING TO BE DEMOLISHED OR RELOCATED
- EXISTING BUILDINGS

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATION OF EXISTING PORTABLES

SHEET NAME:

SITE DEMOLITION PLAN

SCHEMATIC DESIGN

DATE: **2026.01.20** | CLIENT PROJ NO: **3361-008-101**

SHEET:

A1.01

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ARCHITECTURAL SITE PLAN

1" = 60'-0"

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Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

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3. FOR ADDITIONAL ELEVATION CALLOUTS SEE ENLARGED PLANS.
4. REFER TO PARTIAL PLANS FOR MORE INFORMATION. OVERALL PLANS ARE INTENDED TO PROVIDE CONTEXT FOR PARTIAL PLANS.

LEGEND

- PARKING LOT STRIPING
- FIRE LANE ACCESS
- EXISTING BUILDINGS (S) IN SCOPE
- EXISTING BUILDING(S) & STRUCTURE(S) NOT IN SCOPE

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATION OF EXISTING PORTABLES

SHEET NAME:

PROJECT SITE PLAN

SCHEMATIC DESIGN

DATE: **2026.01.20**

CLIENT PROJ NO: **3361-008-101**

SHEET:

A1.22

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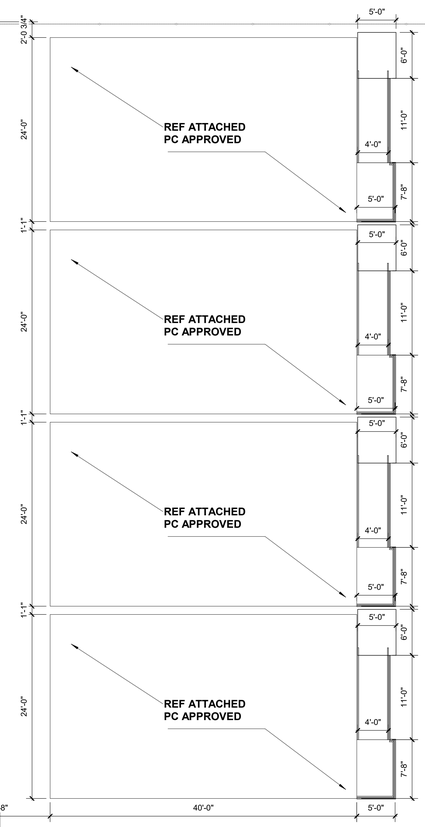
(E) BLDG. F
A#03-112915

(E) BLDG.
G2
A#03-112915

(E) BLDG. F
A#03-112915

(E) BLDG.
G1
A#03-112915



13'-8" 40'-0" 5'-0"

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Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO G-SERIES SHEETS FOR ADDITIONAL INFO AND CODE REQUIREMENTS.
3. FOR ADDITIONAL ELEVATION CALLOUTS SEE ENLARGED PLANS.
4. REFER TO INTERIOR ELEVATIONS FOR ALL CASEWORK INFORMATION.

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATION OF EXISTING PORTABLES

SHEET NAME:

FLOOR PLAN

SCHEMATIC DESIGN

DATE: **2026.01.20**

CLIENT PROJ NO: **3361-008-101**

SHEET:

A2.01

PORTABLE FLOOR PLAN **1** 1/8" = 1'-0"

PLEASE RECYCLE

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GENERAL NOTES:

1. ALL WORK PERFORMED IN THIS CONTRACT SHALL CONFORM TO:
   - A. PROJECT SPECIFICATIONS.
   - B. THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA).
   - C. EL MONTE UNION HIGH SCHOOL DISTRICT STANDARDS AND SPECIFICATIONS.
   - D. 2022 CALIFORNIA BUILDING CODE, OR LATEST VERSION.
2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE WORK SPECIFIED ON THE DRAWINGS AND WITHIN THE VARIOUS NOTES SHOWN HEREIN.
3. THE EXISTING CONDITIONS SHOWN DIAGRAMMATICALLY ON THE PLANS ORIGINATED FROM AS BUILT DRAWINGS AND FIELD SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND VERIFY THE EXACT EXISTING CONDITIONS UNLESS CONCEALED BEFORE SUBMITTING HIS BID. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE DISTRICT USING THE PROPER REQUEST FOR INFORMATION FORMS PRIOR TO SUBMITTING HIS BID FOR PROPER ACTION.
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES IN THE AREA OF WORK WHICH ARE NOT INCLUDED IN THIS CONSTRUCTION. ANY DAMAGE RESULTING FROM THIS WORK SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE DISTRICT.

UNDERGROUND SERVICE ALERT:

5. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY I.D. NUMBER BY CALLING 1-800-422-4133. TWO (2) WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED THAT UTILITY OWNERS CAN BE NOTIFIED.

PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS:

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK PER SPPWC SECTION 7-9 OF THE STANDARD SPECIFICATIONS.

REMOVALS:

7. EXISTING STRUCTURES AND SUBSTRUCTURES WHICH ARE INDICATED TO BE REMOVED IN THIS CONSTRUCTION DOCUMENTS SHALL BE TOTALLY REMOVED AND DISPOSED OF OFFSITE, UNLESS OTHERWISE INDICATED. EXISTING FACILITIES WHICH ARE DISCOVERED DURING CONSTRUCTION (INCLUDING WALLS, FOOTINGS AND FOUNDATIONS) SHALL BE REPORTED TO AND COORDINATED WITH THE DISTRICT AS TO THEIR REMOVAL. CONTRACTOR WILL NOTIFY THE DISTRICT IN WRITING PRIOR TO COMMENCING THE WORK.
8. ALL SITE PREPARATION AS INDICATED SHALL BE MADE UNDER THE CONTINUOUS INSPECTION OF THE INSPECTOR OF RECORD (IOR) AND OWNER AUTHORIZED REPRESENTATIVE (OAR). SECURE THE REQUIRED PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY FOR THE CONSTRUCTION OF TRENCHES, SHORING OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER OR WORK THAT MAY JEOPARDIZE THE WORKERS. SHORING CALCULATIONS SHALL BE PROVIDED AS REQUIRED FOR APPROVAL AND PERMITTING.
9. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO CONTROL DUST CAUSED BY WORK ACTIVITIES AS REQUIRED BY THE DISTRICT AND JURISDICTIONAL AGENCY.
10. ALL WORK IN THE PUBLIC RIGHT OF WAY REQUIRES APPROVAL BY THE JURISDICTIONAL AGENCY DEPARTMENT OF PUBLIC WORKS / TRAFFIC AND TRANSPORTATION DEPARTMENTS BEFORE CONSTRUCTION BEGINS. CONTRACTOR SHALL SECURE AND PAY FOR ANY PERMIT INCLUDING UTILITY CONNECTIONS REQUIRED PRIOR TO CONSTRUCTION.
11. ALL FILL OR BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
12. CONSTRUCTION STAKING AND ADJUSTMENTS FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR PAID FOR BY THE CONTRACTOR AND INCLUDED IN THE CONTRACT.
13. VOIDS RESULTING FROM REMOVAL WORK SHALL BE FILLED WITH SUITABLE MATERIALS APPROVED BY THE DISTRICT RETAINED GEOTECHNICAL ENGINEER AND COMPACTED TO AT LEAST 95% MAXIMUM DENSITY PER ASTM D-1557.
14. CONSTRUCT OFFSITE WORK TO COMPLY WITH THE REQUIREMENTS OF THE LOCAL GOVERNING AGENCY. SECURE AND PAY FOR REQUIRED CONSTRUCTION PERMITS.
15. IF EXISTING UTILITIES ARE EXPOSED OR DETERMINED TO EXIST UNDER THE CONSTRUCTION LIMITS, CONTRACTOR SHALL PROVIDE A FLAGGED STAKE THAT INDICATES THEIR LOCATION, TYPE OF UTILITY, SIZE, PIPE MATERIAL AND DEPTH. STAKES SHALL BE INSTALLED NO LESS THAN 50' ON CENTER ON STRAIGHT LINES AND AT BENDS.
16. MAINTAIN A RECORD OF LOCATION OF UTILITY MARKERS ON THE AS-BUILT PLAN AND REINSTALL THEM AFTER PAVING. REPLACE BENT OR UNUSABLE MARKERS FOR ALL UTILITY LINES DISCOVERED WITHIN THE WORK AREA. INSTALL BRASS UTILITY MARKERS INDICATING DIRECTIONS OF LINES AT ALL CHANGES IN DIRECTIONS AFTER PAVING. INFORM THE SURVEYOR TO LOCATE AND RECORD ACTUAL LOCATIONS.
17. UNCLOG, CLEAN AND FLUSH THE WORK AREA DRAINAGE SYSTEM AFTER PAVING AND IMMEDIATELY BEFORE A RAIN FORECAST.
18. ALL GRADING AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE LOCAL GOVERNING AGENCY'S PUBLIC WORKS DEPARTMENT, THAT CONTROLS AND RESTRICTS NOISE FROM THE USE OF CONSTRUCTION AND GRADING EQUIPMENT FROM THE HOURS OF 8:00PM TO 6:30AM, AND ON SUNDAYS AND HOLIDAYS. (MORE RESTRICTIVE CONSTRUCTION ACTIVITY TIMES MAY GOVERN, AS REQUIRED BY THE DEPARTMENT OF REGIONAL PLANNING AND SHOULD BE SHOWN ON THE GRADING PLANS WHEN APPLICABLE.)
19. CALIFORNIA PUBLIC RESOURCES CODE (SECTION 5097.98) AND HEALTH AND SAFETY CODE (SECTION 7050.5) ADDRESS THE DISCOVERY AND DISPOSITION OF HUMAN REMAINS. IN THE EVENT OF DISCOVERY OR RECOGNITION OF ANY HUMAN REMAINS IN ANY LOCATION OTHER THAN A DEDICATED CEMETERY, THE LAW REQUIRES THAT GRADING IMMEDIATELY STOPS AND NO FURTHER EXCAVATION OF DISTURBANCE OF THE SITE, OR ANY NEARBY AREA WHERE HUMAN REMAINS MAY BE LOCATED, OCCUR UNTIL THE FOLLOWING MEASURES HAVE BEEN TAKEN:
   - A. THE COUNTY CORONER HAS BEEN INFORMED AND HAS DETERMINED THAT NO INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED AND,
   - B. IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE DESCENDANTS FROM THE DECEASED NATIVE AMERICANS HAVE MADE A RECOMMENDATION FOR THE MEANS OF TREATING OR DISPOSING, WITH APPROPRIATE DIGNITY, OF THE HUMAN REMAINS AND ANY ASSOCIATED GRAVE GOODS.
20. ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE APPROVED BY INSPECTOR OF RECORD OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE INSPECTOR OF RECORD UPON REQUEST.
21. ANY ADDITIONAL SURVEYS OR TESTING AS A RESULT OF CONTRACTOR ERROR OR MISINFORMATION WILL BE CHARGED TO THE CONTRACTOR.
22. SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY A LICENSED SURVEYOR. PRIOR TO GRADING, AS REQUESTED BY THE INSPECTOR OF RECORD, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.
23. A COPY OF THE APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
24. THE CONTRACTOR SHALL PREPARE, PAY, AND FILE FOR A SWPPP. THE CONTRACTOR SHALL MODIFY AS REQUIRED THE APPROVED SWPPP/EROSION CONTROL PLANS FOR EACH PHASE OF THE PROJECT OR AS CONSTRUCTION ACTIVITIES PROGRESS THROUGH THE DURATION OF THE CONTRACT. THESE MODIFICATIONS SHALL BE REPORTED AND COORDINATED WITH BOTH THE QSD AND THE QSP. ANY MODIFICATIONS TO THE OVERALL DURATION OF CONSTRUCTION SCHEDULE FROM THAT AS SHOWN ON THE CURRENT SWPPP, SHALL ALSO BE REPORTED TO THE QSD. THE QSD SHALL THAN BE REQUIRED TO FILE AN EXTENSION OF CONSTRUCTION OR COI, (CHANGE OF INFORMATION), WITH THE STATE WATER RESOURCE CONTROL BOARD. ALL BMP'S SHALL BE MAINTAINED YEAR ROUND TO THE SATISFACTION OF THE QSD AND QSP.
25. CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND THE PERIMETER OF THE CONSTRUCTION SITE AND STAGING AREA. FENCING SHALL BE MINIMUM 8 FEET TALL AND SHALL HAVE A DUST/VISION BARRIER ALONG THE FULL LENGTH. THE DUST/VISION BARRIER SHALL EXTEND THE LENGTH OF THE CONSTRUCTION SITE. THE FENCING SHALL BE ANCHORED TO THE SURFACE AND SHALL BE ABLE TO WITHSTAND A 200-POUND HORIZONTAL POINT LOAD IN ANY DIRECTION. TEMPORARY FENCING POLES AND GATES POST SHALL BE DRIVEN INTO THE GROUND. FENCE STANDS WILL NOT BE ALLOWED. WORK AREA AND STAGING AREA SHALL BE SECURE AT ALL TIMES.

GENERAL NOTES (cont):

26. UTILITIES TO BE VERIFIED IN FIELD TO INSURE THE EXISTING SERVING FACILITIES TO REMAIN. COORDINATE RELOCATION IF REQUIRED. REMOVE INTERFERING SECTIONS OF ALL ABANDONED EXISTING UTILITIES. UTILITY OWNERS OF THESE ABOVE-MENTIONED INTERFERING UTILITIES AND THE DISTRICT OR OAR SHALL BE NOTIFIED IN ADVANCE PRIOR TO START OF REMOVAL.
27. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE ROUGH GRADING SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
28. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
29. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SCHOOL DISTRICT WITH A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS OF ALL WORK PERFORMED UNDER THIS CONTRACT, AS SHOWN WITHIN THESE CONSTRUCTION DRAWINGS. ALL FIELD CHANGES SHALL BE SHOWN IN DETAIL ON THE "AS-BUILT" DRAWINGS AND SHALL INCORPORATE AS A MINIMUM, NEW ELEVATIONS, GRADES AND ALIGNMENT OF UNDERGROUND FACILITIES WITH DIMENSIONAL TIES TO BUILDINGS OR OTHER VISIBLE IMPROVEMENTS.
30. THE CONTRACTOR SHALL OBTAIN AN O.S.H.A PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER.
31. CONTRACTOR SHALL SECURE AND PAY FOR TEMPORARY POWER AND WATER TO BE USED FOR HIS/HER MEANS AND METHOD OF CONSTRUCTION.
32. CONSTRUCT STRAIGHT GRADES BETWEEN ELEVATIONS SHOWN ON PLAN UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATION FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
33. "PATH OF TRAVEL (P.O.T) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTING FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-403.
34. SIDEWALK, WALKWAYS, ACCESS TO BUILDING, ACCESS DOORS, PLAY AREAS AND PATH OF TRAVEL SHOWN IN ARCHITECTURAL AND LANDSCAPE DRAWING SHALL HAVE NO MORE THAN 2% MAXIMUM CROSS SLOPE. COORDINATE GRADING PLAN WITH ARCHITECTURAL DRAWINGS AND REPORT TO OWNER AUTHORIZED REPRESENTATIVE ANY DISCREPANCY PRIOR TO COMMENCEMENT OF GRADING.
35. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION FENCING, APPURTENANCES AND OFFICE TRAILERS FROM THE SITE. PAVEMENT SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT PAVEMENT AND APPROVED BY THE INSPECTOR OF RECORD OR CITY INSPECTOR AS APPLICABLE.
36. GRADE LAWN, TURF, AND PLANTING AREA 1-1/2" MAX AT ACCESSIBLE PATH OF TRAVEL AND 2" MAX AT OTHER AREAS BELOW DESIGN GRADES INDICATED.
37. ADJUST TO GRADE EXISTING MANHOLE RIMS, AND ELECTRICAL VAULT LIDS TO DESIGN GRADES WITHIN THE IMPROVEMENT AREA. CONTRACTOR TO VERIFY LOCATION AND NUMBER OF MANHOLE RIMS, VALVE BOXES AND ELECTRICAL VAULT LIDS IN THE FIELD PRIOR TO BIDDING.
38. IF GRADING AUTHORIZED BY THIS PLAN IS TO EXTEND THROUGH THE RAINY SEASON, OCTOBER 1 THROUGH APRIL 15 OF THE FOLLOWING YEAR, SEPARATE UPDATED PLANS FOR EROSION CONTROL MUST BE SUBMITTED TO JURISDICTIONAL AGENCIES FOR APPROVAL PRIOR TO OCTOBER TO DSA FOR APPROVAL. CONTRACTOR TO PROVIDE STORM WATER PREVENTION PLAN, PRE-CONSTRUCTION AND POST CONSTRUCTION BMPS AND UPDATE FROM TIME TO TIME TO COMPLY WITH THE REQUIREMENTS.
39. CONTRACTOR IS RESPONSIBLE TO ADJUST EXISTING DRY AND / OR PRESSURIZED UTILITY PIPES ABOVE, BELOW AND / OR COORDINATE RELOCATION DUE TO THE INSTALLATION OF NEW GRAVITY LINES (SEWER AND STORM UTILITY PIPES).
40. CONTRACTOR IS REQUIRED TO RESTORE ALL EXISTING IMPROVEMENTS TO THE SAME CONDITION, THAT ARE NOT PART OF THIS PROJECT, THAT EXISTED PRIOR TO STARTING CONSTRUCTION. CONTRACTOR IS TO TAKE PHOTOS/VIDEO OF EXISTING SITE CONDITIONS AND PROVIDE TO OWNER PRIOR TO THE START OF CONSTRUCTION.

HORIZONTAL CONTROL

A CAD GEOMETRIC ELECTRONIC FILE SHALL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST FOR THE CONTRACTOR'S SURVEYOR TO LAYOUT THE CONSTRUCTION STAKING OF THE PROJECT. THE SURVEYOR OR CONTRACTOR WILL NEED TO SIGN A WAIVER FORM BEFORE RELEASE OF ANY CAD ELECTRONIC DRAWINGS.

LEGENDS:

CONSTRUCT 6" THICK CONCRETE PAVEMENT OVER 6" BASE PER DETAIL 1 ON SHEET C-4.0.

RELOCATED PORTABLE PER ARCHITECTURAL DRAWINGS.

REMOVE AND RELOCATE EXISTING PORTABLE IN ITS ENTIRELY.

REMOVE EXISTING CONCRETE RAMP, FOOTINGS AND HAND RAILS IN ITS ENTIRETY.

LIMIT OF REMOVAL

CENTER LINE

PROPERTY LINE

EXISTING CONTOUR MINOR

EXISTING CONTOUR MAJOR (1355.00)

CHAIN LINK FENCE

TUBE STEEL FENCING

METAL FENCING

CMU WALL

COMMUNICATION LINE (C)

UNDERGROUND ELECTRICAL LINE (E)

GAS LINE (G)

OVERHEAD UTILITY (OH)

STORM DRAIN LINE (SD)

STREET LIGHT ELECTRICAL LINE (SL)

SANITARY SEWER LINE (SS)

WATER LINE (W)

ATHLETIC FIELD LIGHTING — 4" SCH 80 PVC

BACKFLOW PREVENTER — BFP 4" SCH 80

BASKETBALL HOOP

BENCH — BENCH

BOLLARD — BLRD

COMMUNICATION CABINET — C

COMMUNICATION VAULT — C C

CONCRETE SEATWALL — SEATWALL

LEGENDS (CONT.):

DECIDUOUS TREE

DOUBLE CHECK DETECTOR ASSEMBLY — DCDA

DRINKING FOUNTAIN — DF

ELECTRICAL TRANSFORMER — TRNS

ELECTRICAL VAULT — E E

EVERGREEN TREE — DC

FIRE DEPARTMENT CONNECTION — FH

FIRE HYDRANT

GAS PRESSURE REGULATOR ASSEMBLY — 3/4" G REG

GAS VALVE — GV

IRRIGATION CONTROLLER — IC

IRRIGATION VALVE — IV

PALM TREE

POST INDICATOR VALVE — PIV

SANITARY SEWER MANHOLE OR CLEANOUT — SS

SITE LIGHTING — LT

STORM DRAIN INLET — SD

STORM DRAIN MANHOLE OR CLEANOUT — SD

UNKNOWN UTILITY VAULT — UT

WATER METER — WM

WATER VAULT — WV

ABBREVIATIONS:

AC	ASPHALT
AOR	AUTHORIZED OWNER REPRESENTATIVE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE	AVENUE
BFD	BACKFLOW DEVICE
BLDG	BUILDING
BLVD	BOULEVARD
BMP	BEST MANAGEMENT PRACTICES
CAB	CRUSHED AGGREGATE BASE
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CONC/CC	CONCRETE
DF	DRINKING FOUNTAIN
DI	DROP INLET
E	EAST
(E)/EX	EXISTING
ELEC	ELECTRICAL
EP	EDGE OF PAVEMENT
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOW LINE
FS	FINISHED SURFACE
FT	FEET
GB	GRADE BREAK
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
IOR	INSPECTION OF RECORD
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
(N)	NEW
NTS	NOT TO SCALE
OC	ON CENTER
OAR	OWNER AUTHORIZED REPRESENTATIVE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PA	PLANTER AREA
PL	PROPERTY LINE
PLNTR	PLANTER
PP	PERFORATED PIPE
S	SOUTH
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
TC	TOP OF CURB
TE	TOP OF ELEVATION
TG	TOP OF GRATE
TOP	TOP OF ELEVATION
TR	ELECTRICAL TRANSFORMER
VIF	VERIFY IN FIELD
W	WEST

SHEET INDEX:

C-1.0	GENERAL NOTES, LEGENDS, AND ABBREVIATIONS
C-1.1	OVERALL SITE PLAN
CD-1.0	ENLARGED SITE DEMOLITION PLAN
C-2.0	ENLARGED SITE CONTROL PLAN
C-3.0	ENLARGED SITE GRADING PLAN
C-4.0	MISCELLANEOUS DETAILS
C-5.0	EROSION CONTROL PLAN
C-5.1	EROSION CONTROL DETAILS

SURVEY NOTES:

SURVEYOR AND BENCH MARK FOR THIS PRODUCT:

SURVEYOR:

DAVID BECKWITH AND ASSOCIATES, INC
9431 HAVEN AVENUE, SUITE 232
RANCHO CUCAMONGA, CA 91730

BENCH MARK:

BENCHMARK: 1G4157

FOUND 3" BRASS DISK COUNTY SURVEY BENCHMARK IN THE WEST END OF A STORM DRAIN CATCH BASIN LOCATED 45-FT EAST OF THE BCR AT THE NORTHEAST CORNER OF LOWER AZUSA ROAD AND SANTA ANITA AVENUE MARKED "BM 19-8A 1971".

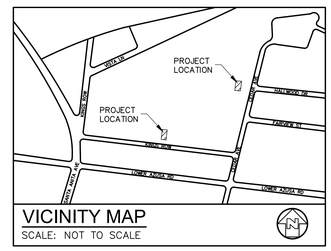
ELEVATION: 318.932 (NAVD88)

BASIS OF BEARINGS:

THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 5, (2010.00 EPOCH) IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE BASED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING NATIONAL GEODETIC SURVEY NETWORK, CONTINUALLY OPERATING REFERENCE STATIONS (CORS), OR EQUIVALENT STATIONS.

STATION	NORTHING	EASTING
JPLM	1896965.473	6509289.183
TORP	1748960.131	6461222.485

ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES AND ARE IN US SURVEY FOOT. GRID DISTANCES CAN BE OBTAINED BY MULTIPLYING GROUND DISTANCES BY A COMBINED FACTOR OF 0.9999774243 FROM POINT #100.



VICINITY MAP
SCALE: NOT TO SCALE

PLEASE RECYCLE

EL MONTE UNION HIGH SCHOOL DISTRICT

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ISSUE

Δ	DESCRIPTION	DATE
	SCHEMATIC DESIGN	01/23/2026

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER — TERRELL C. ADDISON — No. C36079 — Exp. 6/30/26 — CIVIL — STATE OF CALIFORNIA

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Tel: 323.729.6098 Fax: 626.872.0795

FACILITY:

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EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

GENERAL NOTES, LEGENDS, AND ABBREVIATIONS

SCHEMATIC DESIGN

DATE: **2026.01.23** | CLIENT PROJ NO: **3361-008-101**

SHEET:

C-1.0

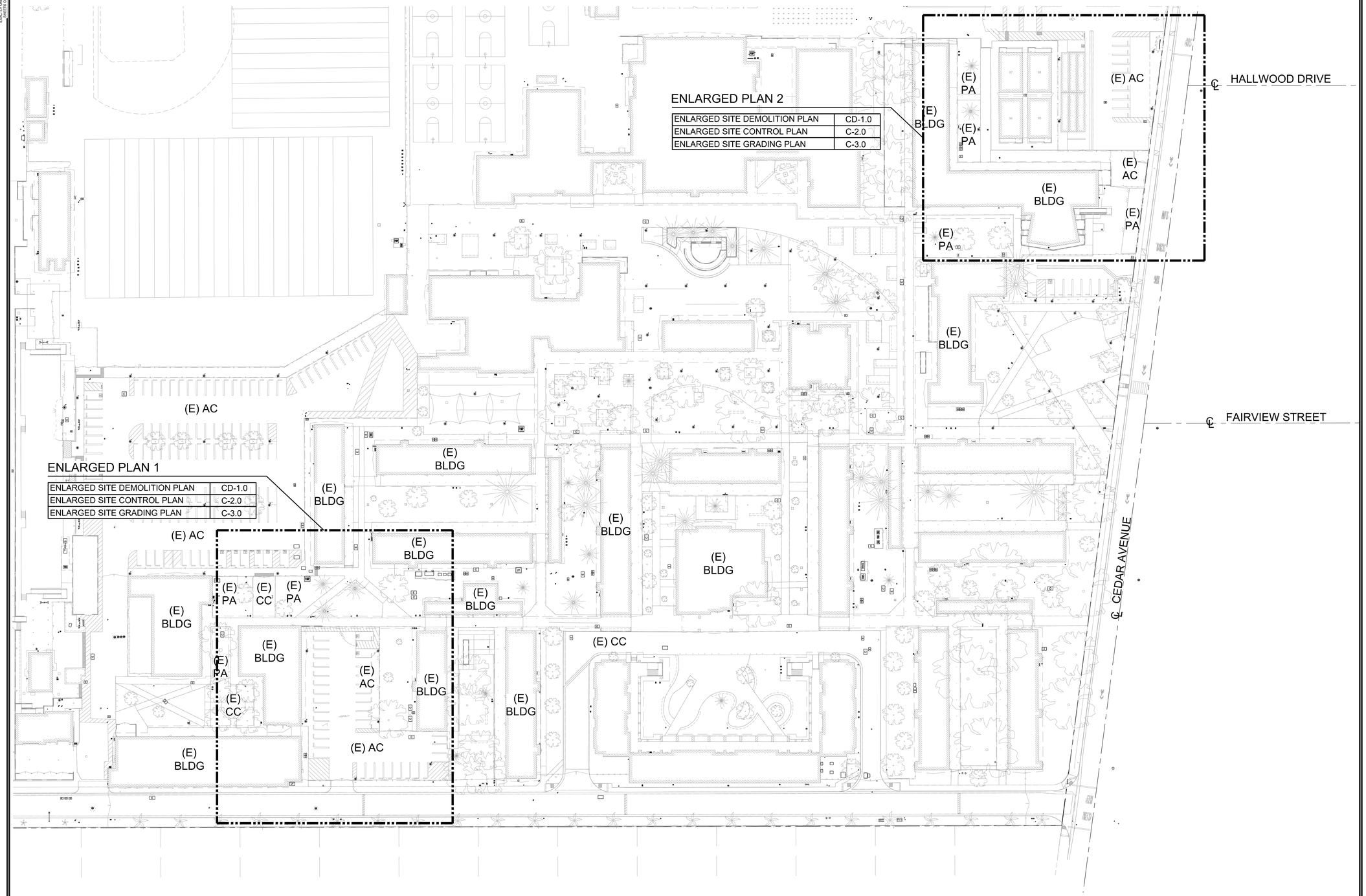
THE LINE BROWN ABOVE IS EQUIVALENT TO 1" ON ALL SHEETS ORIGINAL PAGE SIZE

ENLARGED PLAN 2

ENLARGED SITE DEMOLITION PLAN	CD-1.0
ENLARGED SITE CONTROL PLAN	C-2.0
ENLARGED SITE GRADING PLAN	C-3.0

ENLARGED PLAN 1

ENLARGED SITE DEMOLITION PLAN	CD-1.0
ENLARGED SITE CONTROL PLAN	C-2.0
ENLARGED SITE GRADING PLAN	C-3.0



OVERALL SITE PLAN

40 20 0 40 80

SCALE: 1"=40

PLEASE RECYCLE

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PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

OVERALL SITE PLAN

SCHEMATIC DESIGN

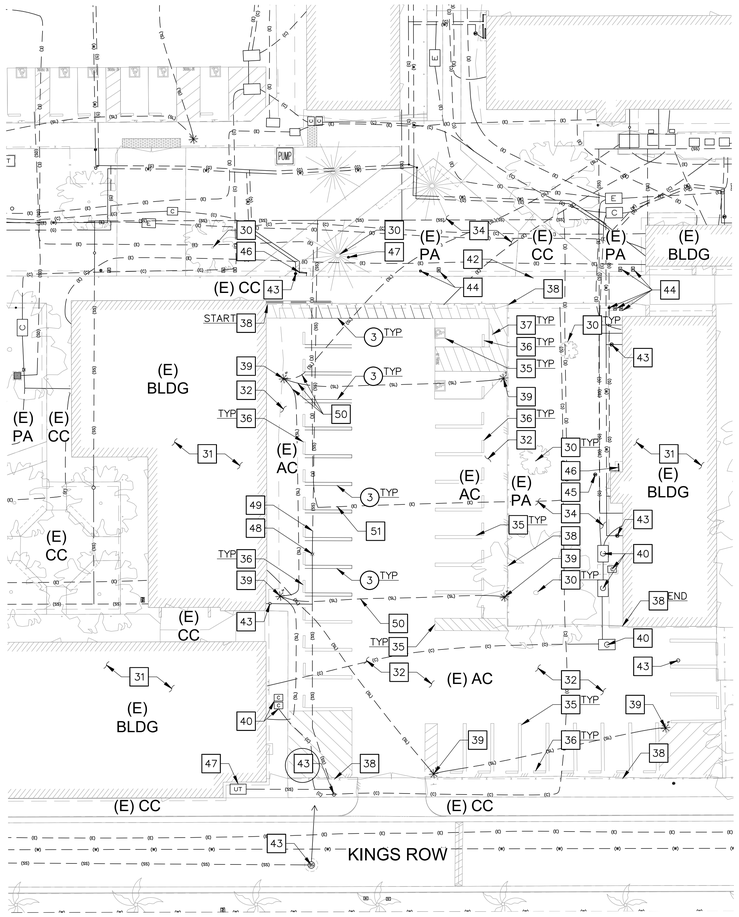
DATE: **2026.01.23**

CLIENT PROJ NO: **3361-008-101**

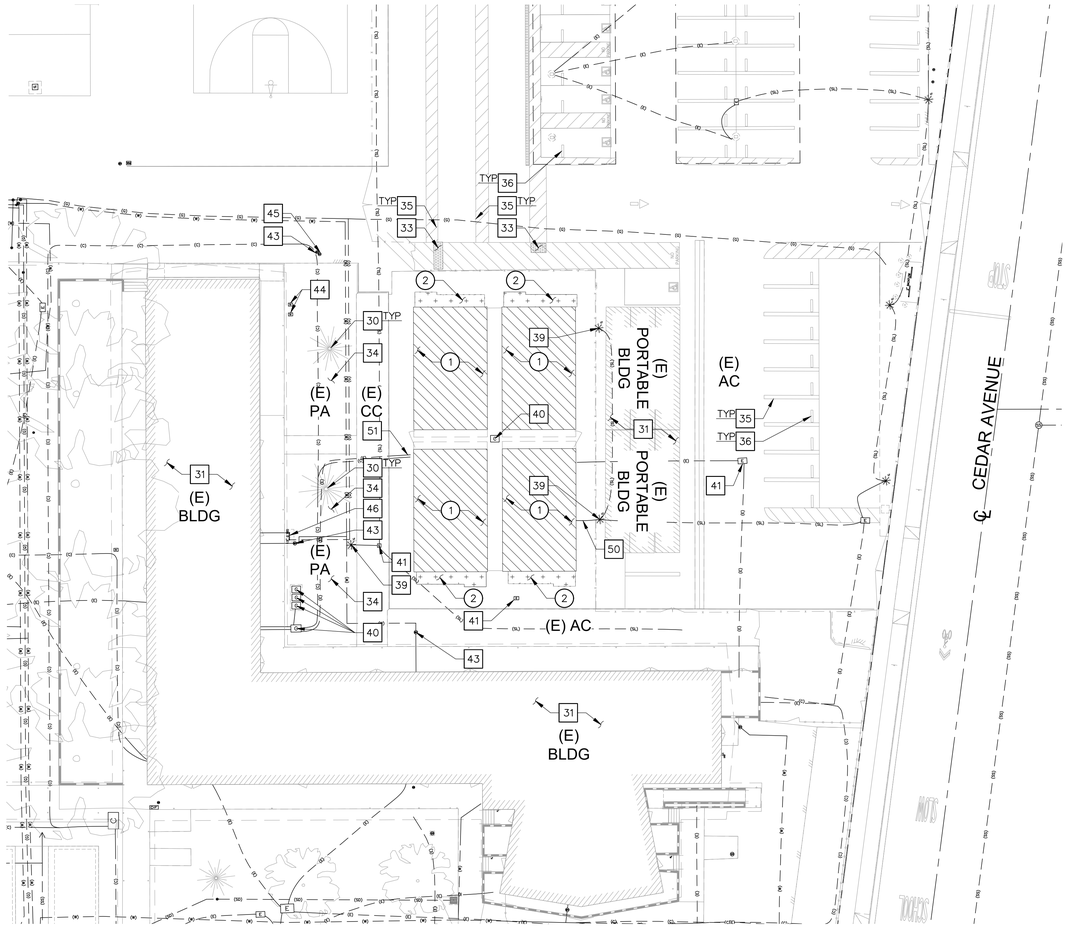
SHEET:

C-1.1

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



1 ENLARGED SITE DEMOLITION PLAN
SCALE: 1"=20'



2 ENLARGED SITE DEMOLITION PLAN
SCALE: 1"=20'

REMOVAL NOTES:

1. REMOVE AND RELOCATE EXISTING PORTABLE IN ITS ENTIRETY.
2. REMOVE EXISTING CONCRETE RAMP, FOOTINGS AND HAND RAILS IN ITS ENTIRETY.
3. REMOVE EXISTING STRIPING.

PROTECT-IN-PLACE NOTES:

30. PROTECT IN PLACE EXISTING TREES, SHRUBS, SOD, ETC. COORDINATE WITH LANDSCAPE DRAWINGS.
31. PROTECT IN PLACE EXISTING BUILDING.
32. PROTECT IN PLACE EXISTING AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
33. PROTECT IN PLACE EXISTING TRUNCATED DOME.
34. PROTECT IN PLACE EXISTING PLANTER AREA.
35. PROTECT IN PLACE EXISTING STRIPING.
36. PROTECT IN PLACE EXISTING WHEELSTOP.
37. PROTECT IN PLACE EXISTING SIGN.
38. PROTECT IN PLACE EXISTING CHAINLINK FENCE.
39. PROTECT IN PLACE EXISTING SITE LIGHTING.
40. PROTECT IN PLACE EXISTING COMMUNICATION VAULT.
41. PROTECT IN PLACE EXISTING ELECTRICAL VAULT.
42. PROTECT IN PLACE EXISTING GUARD POST/BOLLARD/ FLAG POLE.
43. PROTECT IN PLACE EXISTING UTILITY PULL BOX, MANHOLE, WATER VALVE, AND CLEANOUTS.
44. PROTECT IN PLACE EXISTING IRRIGATION CONTROL VALVE.
45. PROTECT IN PLACE EXISTING GAS VALVE.
46. PROTECT IN PLACE EXISTING GAS PRESSURE REGULATOR ASSEMBLY.
47. PROTECT IN PLACE EXISTING UNKNOWN UTILITY VAULT.
48. PROTECT IN PLACE EXISTING SEWER CLEANOUT.
49. PROTECT IN PLACE EXISTING SEWER LINE.
50. PROTECT IN PLACE EXISTING STREET LIGHT LINE.
51. PROTECT IN PLACE EXISTING ELECTRICAL LINE.

REMOVAL LEGENDS:

REMOVE AND RELOCATE EXISTING PORTABLE IN ITS ENTIRETY.

REMOVE EXISTING CONCRETE RAMP, FOOTINGS AND HAND RAILS IN ITS ENTIRETY.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.

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KEYNOTES

NOTES

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PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

ENLARGED SITE DEMOLITION PLAN

SCHEMATIC DESIGN

DATE: **2026.01.23**

CLIENT PROJ NO: **3361-008-101**

SHEET:

CD-1.0

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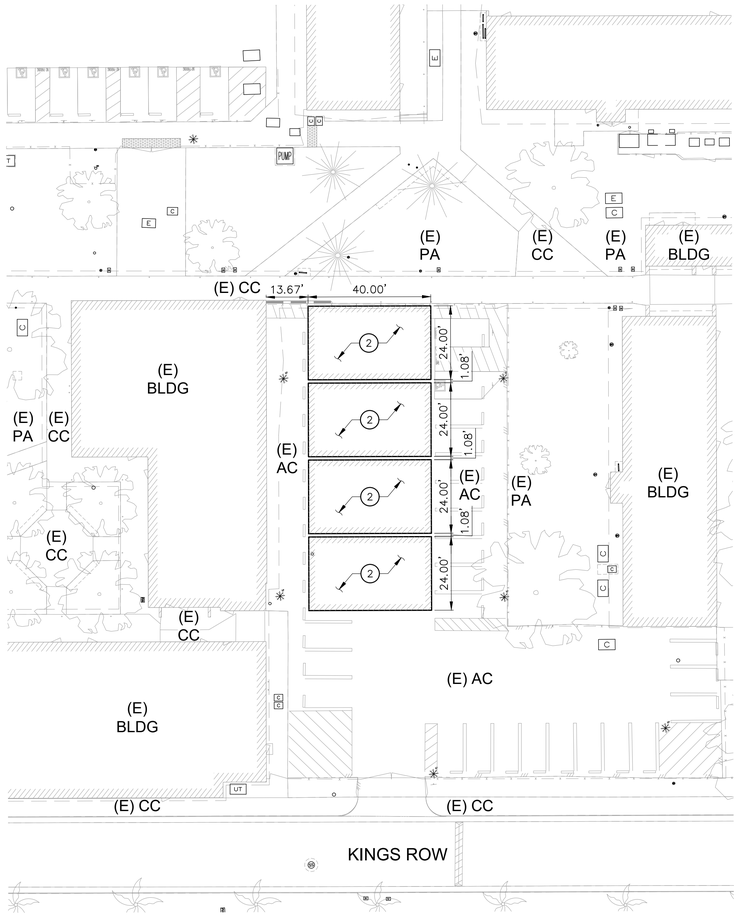
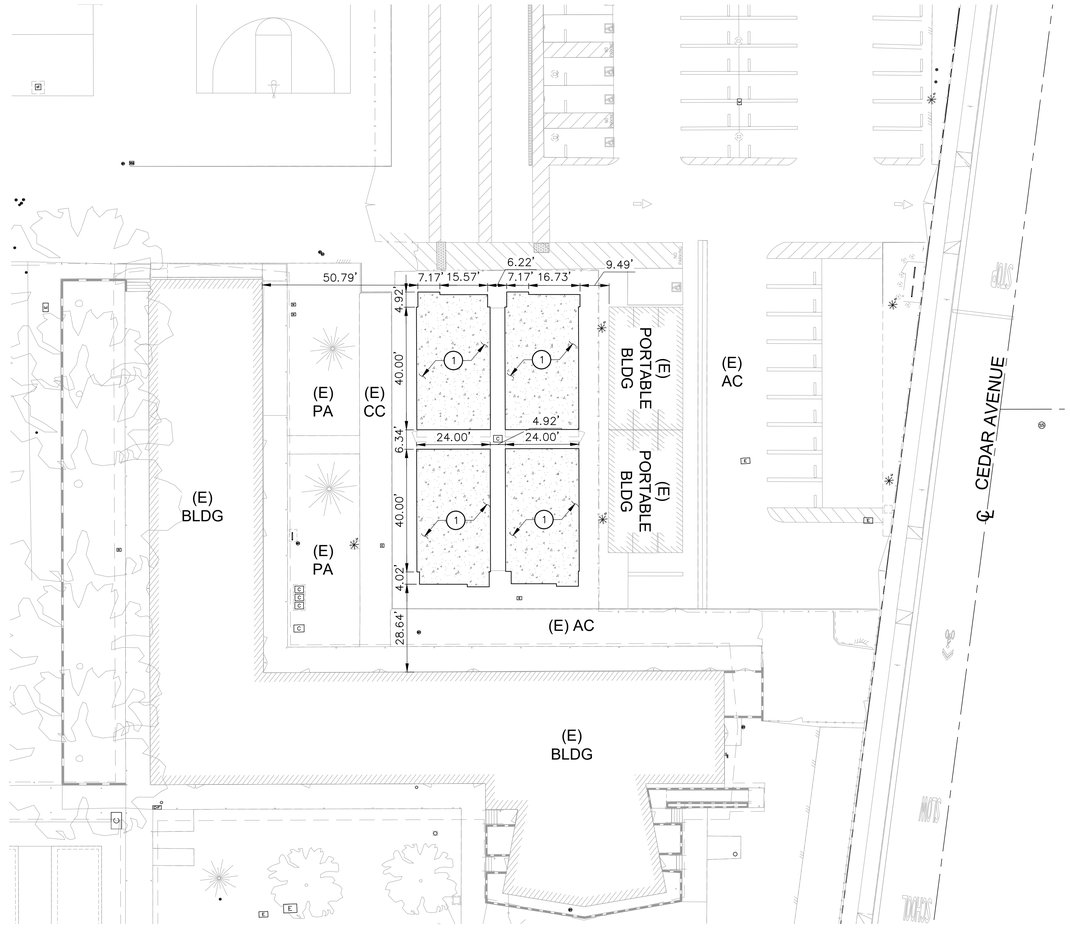


1 ENLARGED SITE CONTROL PLAN
SCALE: 1"=20'



2 ENLARGED SITE CONTROL PLAN
SCALE: 1"=20'

CONSTRUCTION NOTES:

1. 6" THICK CONCRETE PAVEMENT OVER 6" BASE PER DETAIL 1 ON SHEET C-4.0.
2. RELOCATED PORTABLE PER ARCHITECTURAL DRAWINGS.

LEGENDS:

CONSTRUCT 6" THICK CONCRETE PAVEMENT OVER 6" BASE PER DETAIL 1 ON SHEET C-4.0.

RELOCATED PORTABLE PER ARCHITECTURAL DRAWINGS.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEETS C-1.0.
2. REFER TO ARCHITECTURAL DRAWINGS FOR OTHER SITE DIMENSIONS AND IMPROVEMENTS NOT SHOWN ON THIS DRAWING.

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KEYNOTES

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PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

ENLARGED SITE CONTROL PLAN

SCHEMATIC DESIGN

DATE: **2026.01.23**

CLIENT PROJ NO: **3361-008-101**

SHEET:

C-2.0

PLEASE RECYCLE

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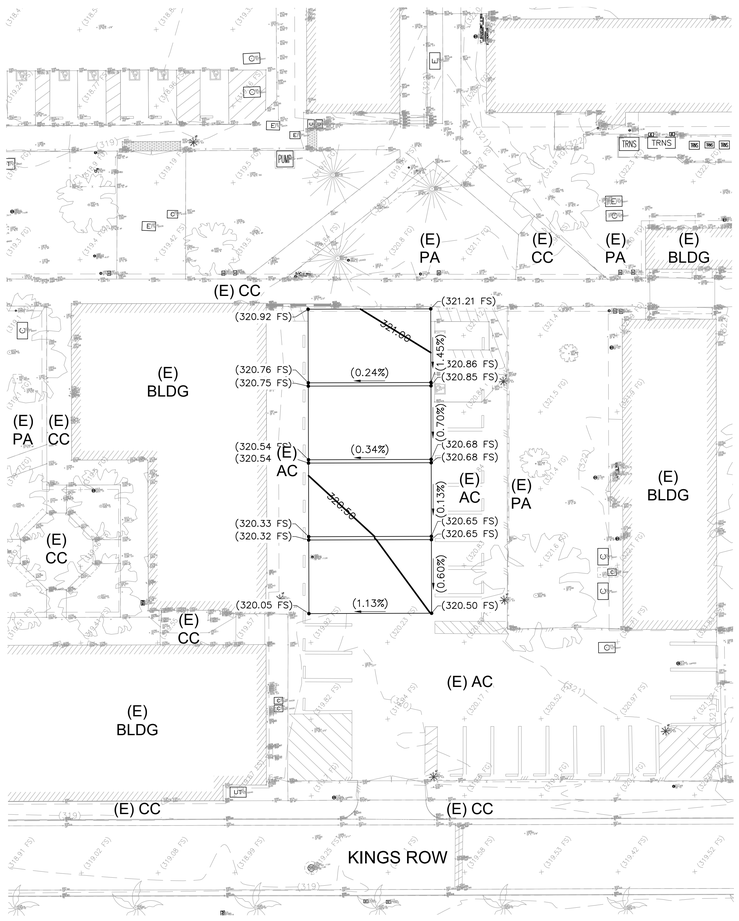
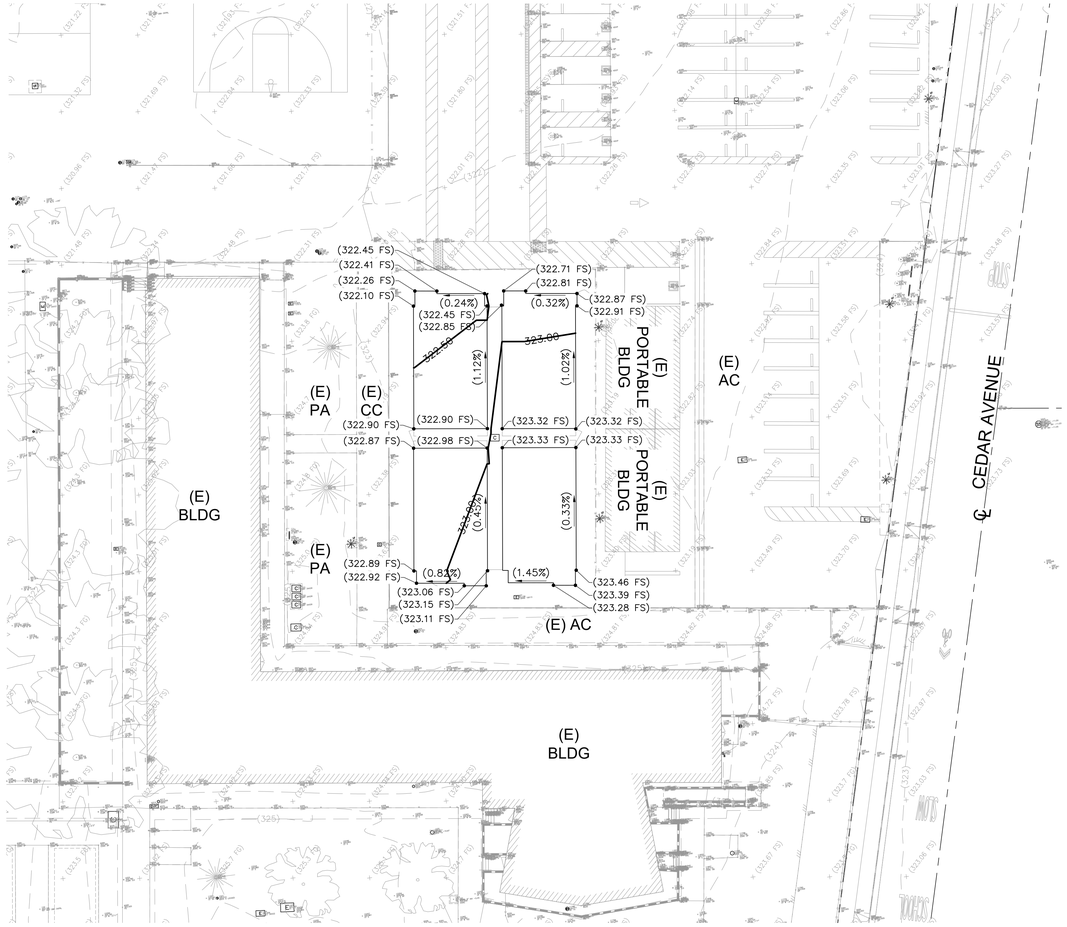


1 ENLARGED SITE GRADING PLAN
SCALE: 1"=20'



2 ENLARGED SITE GRADING PLAN
SCALE: 1"=20'

SHEET NOTES:

1. ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTIONAL AGENCIES.
2. PROVIDE A HAUL ROUTE AS REQUIRED BY THE JURISDICTIONAL AGENCIES.
3. NO GRADING WORK SHALL BE PERFORMED AT ANY TIME WITHOUT AN EROSION SYSTEM APPROVED BY THE ENGINEER AND THE JURISDICTIONAL DISTRICT.
4. CONSTRUCT DESIGN GRADES SHOWN ON PLAN. CONSTRUCT STRAIGHT GRADES BETWEEN INDICATED ELEVATIONS UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATIONS FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL OF THE ARCHITECT.
5. CONTRACTOR SHALL RECOMPACT THE TOP 12" OF THE PAVING SUB GRADE TO 95% MAXIMUM RELATIVE DENSITY.
6. THE CONTRACTOR SHALL NOT BEGIN THE PAVING OPERATION UNTIL THE SUB GRADE HAS BEEN APPROVED BY THE DISTRICT RETAINED GEOTECHNICAL ENGINEER AND IOR.
7. THE CONTRACTOR IS ADVISED THAT THE APPROVAL OF THIS PLAN DOES NOT WAIVE THE REQUIREMENTS FOR EXCAVATIONS CONTAINED IN THE STATE CONSTRUCTION SAFETY ORDERS ENFORCED BY THE STATE DIVISION OF INDUSTRIAL SAFETY.
8. NO FILL TO BE PLACED, UNTIL THE GEOTECHNICAL ENGINEER OR IOR HAS INSPECTED AND APPROVED THE BOTTOM OF EXCAVATION.
9. ALL FILL OR BACK FILL SHALL BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM 95% RELATIVE COMPACTION AS DETERMINED BY THE ASTM D-1557. ALL FILL INSTALLATION SHALL REQUIRE CERTIFICATION BY THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION INSTALLATION.

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NOT FOR CONSTRUCTION

ISSUE

Δ	DESCRIPTION	DATE
	SCHEMATIC DESIGN	01/23/2026

KEYNOTES

NOTES

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PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

ENLARGED SITE GRADING PLAN

SCHEMATIC DESIGN

DATE: **2026.01.23**
CLIENT PROJ NO: **3361-008-101**

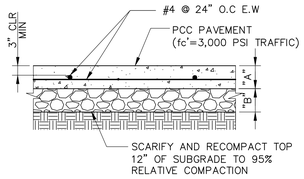
SHEET:

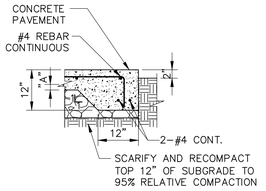
C-3.0

PLEASE RECYCLE

IF THIS LINE BROWN ABOVE IS
EXACTLY 1" THEN ALL ITEMS
SHEETS ORIGINAL PAGE SIZE

LOCATION	CONCRETE PAVEMENT	CRUSHED AGGREGATE BASE
	THICKNESS "A"	THICKNESS "B"
NON-TRAFFIC	6"	6"



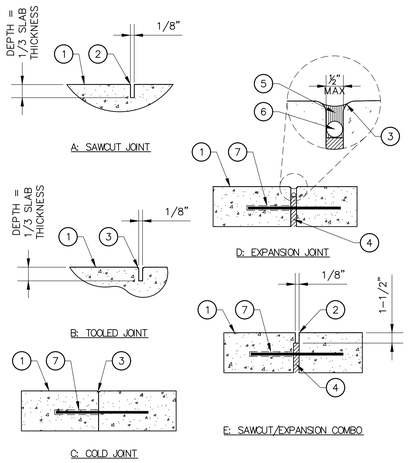


THICKENED EDGE

NOTES:

1. CONCRETE, fc'=3000 psi @ 28 DAYS, FOR TRAFFIC ONLY.
2. REBARS, fy=60,000 psi ASTM AG15.
3. FOR WPJ CONSTRUCTION JOINTS AND PATTERN, REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.
4. PAVING SHALL HAVE A MEDIUM BROOM FINISH ON ALL SURFACES LESS THAN 6% AND A HEAVY BROOM FINISH ON ALL SURFACES GREATER THAN 6%.
5. CONCRETE, fc'=2500 PSI @ 28 DAYS, FOR NON TRAFFIC.
6. CRACK CONTROL JOINTS SHOULD BE SPACED @ INTERVALS NOT GREATER THAN 10' USING SAWCUTS AND EXTEND MINIMUM OF 1/4 THE SLAB THICKNESS.
7. FOR FINISH SURFACES, COLOR INTEGRATION, EXPANSION JOINTS AND OTHER PAVEMENT SURFACE FEATURES, SEE ARCHITECTURAL & LANDSCAPE DRAWINGS.
8. PROVIDE ½" EXPANSION JOINT AT THE BUILDING.
9. FOR PAVEMENT SUBJECT TO VEHICULAR TRAFFIC, OVEREXCAVATE THE UPPER 2FT OF EXISTING SUBGRADE OR TO A DEPTH THAT PROVIDES 2FT OF COMPACTED FILL BENEATH PAVEMENT SECTION, WHICHEVER IS DEEPER.

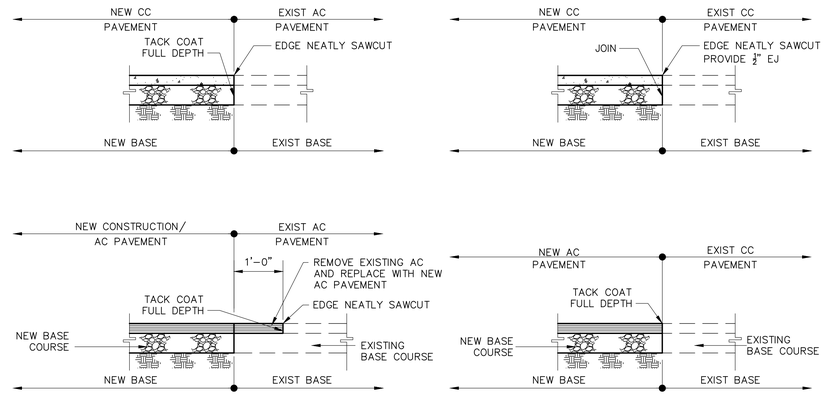
1 CONCRETE PAVEMENT DETAIL
NOT TO SCALE



LEGENDS:

1. PAVING FINISH SURFACE.
2. SAWCUT.
3. 1/8" R. @ EDGES. TYP.
4. PREMOLDED E.J. FILLER.
5. JOINT SEALANT. COLOR TO BE SELECTED BY ARCHITECT. SUBMIT COLOR SAMPLES PRIOR TO INSTALLATION.
6. BACKER ROD.
7. 18" #4 REBAR W/ 'SPEED DOWEL' @ 36" O.C., CENTER IN CONC. AT COLD JOINTS & E.J.'S.
8. CONTROL JOINTS 20 O.C MAX.COORDINATE WITH LANDSCAPE DRAWING FOR JOINT LOCATIONS.
9. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF CONTROL JOINT AND EXPANSION JOINT LAYOUT.

2 JOINT DETAIL
NOT TO SCALE



3 PAVEMENT JOINT DETAIL
NOT TO SCALE

KEYNOTES

NOTES

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PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

MISCELLANEOUS DETAILS

SCHEMATIC DESIGN

DATE: **2026.01.23**

CLIENT PROJ NO: **3361-008-101**

SHEET:

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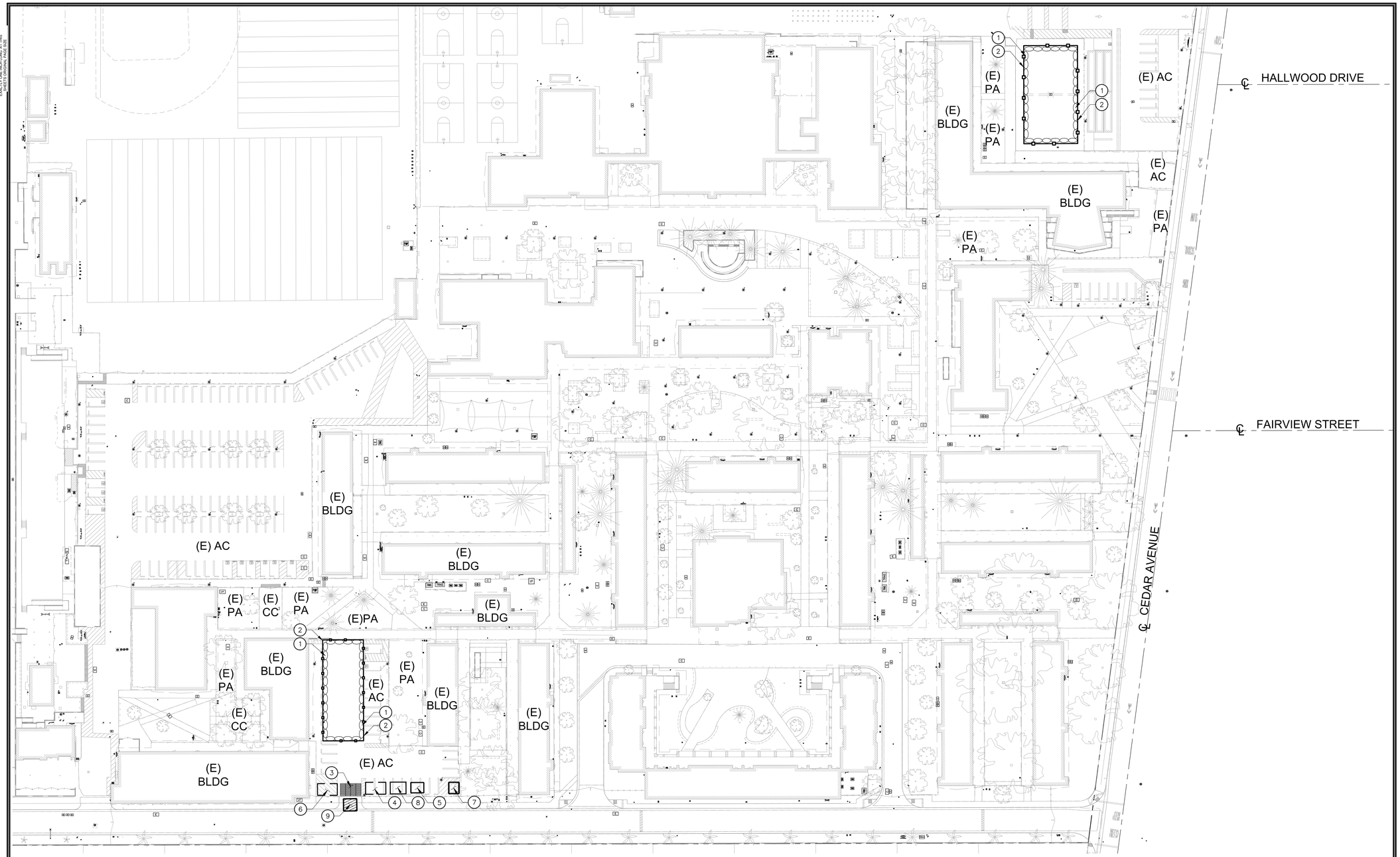

CONSTRUCTION NOTES:

1. INSTALL GRAVEL BAGS UNTIL THE COMPLETION OF THE SITE CONSTRUCTION. REFER TO DETAIL 2 ON SHEET C–5.1.
2. SILT FENCE PER DETAIL 5 ON SHEET C–5.1.
3. STABILIZED CONSTRUCTION ENTRANCE/EXIT PER DETAIL 4 ON SHEET C–5.1.
4. PROPOSED AREA FOR EQUIPMENT STAGING. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CONTRACTOR PROJECT MANAGER.
5. PROPOSED AREA FOR FUELING/OILING. CONTRACTOR TO VERIFY ACTUAL AREA NEEDED AND COORDINATE WITH THE CPM. REFER TO DETAIL 9 ON SHEET C–5.1.
6. PROPOSED AREA FOR LOADING. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CONTRACTOR PROJECT MANAGER.
7. PROPOSED AREA FOR TEMPORARY TOILETS. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CONTRACTOR PROJECT MANAGER.
8. PROPOSED AREA FOR VEHICLE AND EQUIPMENT CLEANING. CONTRACTOR TO VERIFY EXACT LOCATION AND COORDINATE WITH THE CONTRACTOR PROJECT MANAGER.
9. TIRE WASH PER DETAIL 6 ON SHEET C–5.1.

LEGENDS:

GRAVEL BAGS

SILT FENCE

SHEET NOTES:

1. LOCATION FOR ANY DESIGNATED STOCKPILES SHALL BE COORDINATED AND DETERMINED BY THE CONTRACTOR ON–SITE. CONTRACTOR SHALL APPLY ALL APPLICABLE BMP'S TO PROTECT THE STOCKPILE AS OUTLINED IN DETAIL 7 ON SHEET C–5.1.
2. INSTALL 2" OF TEMPORARY CAB GRAVEL ON ALL ON–SITE CONSTRUCTION ROADWAYS TO STABILIZED AND CONTROL EROSION.
3. CONTRACTOR SHALL FROM TIME TO TIME MONITOR THE CONSTRUCTION SITE TO CLEAN AND SWEEP MATERIALS TRACKED OFF SITE.
4. ALL BMP'S, SILT FENCES, ETC., SHALL BE MONITORED AND MAINTAINED BY THE NTP1 CONTRACTOR FOR THE ENTIRE DURATION OF THE CONTRACT.
5. CONTRACTOR SHALL MONITOR WASTEWATER DISCHARGE (INCLUDING STORM RUNOFF) TO ENSURE IT MEETS STANDARDS SET BY APPROPRIATE LAWS, CODES, REGULATIONS, ORDINANCES AND PERMITS. PROVIDE A SETTLING BASIN AND OIL SEPARATOR PRIOR TO ITS DISCHARGE TO CITY OR COUNTRY SEWERS. PROVIDE A WATER SAMPLING STATION DOWNSTREAM OF BASIN FOR MONITORING OF WASTE WATER. DISPOSE OF WASTEWATER IN CLOSED CONDUITS SO AS NOT TO DAMAGE PUBLIC OR PRIVATE PROPERTY NOR CREATE A NUISANCE OR HEALTH HAZARD.
6. CONTRACTOR SHALL NOT DISCHARGE POLLUTANTS DOWNSTREAM OF THE SETTLING BASIN/OIL SEPARATOR. THESE POLLUTANTS INCLUDE LUBRICANTS, FUELS, CHEMICALS, AND BITUMENS. CONTROL USE OF LUBRICATING OILS, HYDRAULIC FLUIDS, GREASES, AND OTHER SUCH PRODUCTS. PROMPTLY CLEAN UP AND PROPERLY DISPOSE OF MATERIALS CONTAMINATED BY SPILLAGE OR LEAKAGE OF PRODUCTS.
7. THE CONTRACTOR SHALL MODIFY AS REQUIRED THE CURRENT APPROVED SWPPP/EROSION CONTROL PLANS FOR EACH PHASE OF THE PROJECT OR AS CONSTRUCTION ACTIVITIES PROGRESS THROUGH THE DURATION OF THE CONTRACT. THESE MODIFICATIONS SHALL BE REPORTED AND COORDINATED WITH BOTH THE QSD AND THE QSP. ANY MODIFICATIONS TO THE OVERALL DURATION OF CONSTRUCTION SCHEDULE FROM THAT AS SHOWN ON THE CURRENT SWPPP, SHALL ALSO BE REPORTED TO THE QSD. THE QSD SHALL THAN BE REQUIRED TO FILE AN EXTENSION OF CONSTRUCTION OR COI, (CHANGE OF INFORMATION), WITH THE STATE WATER RESOURCE CONTROL BOARD. ALL BMP'S SHALL BE MAINTAINED YEAR ROUND TO THE SATISFACTION OF THE QSD AND QSP.
8. CONTRACTOR SHALL PROTECT ALL EXISTING DRAIN INLETS WITHIN A 500–FT RADIUS FROM THE CENTER OF THE SITE TO PREVENT NON–STORMWATER RUNOFF FROM ENTERING THE STORM DRAIN SYSTEM.
9. FOR EROSION CONTROL GENERAL NOTES, AND MISCELLANEOUS REQUIREMENTS, SEE SHEET C–5.1.

EROSION CONTROL PLAN

40 20 0 40 80

SCALE: 1"=40

PLEASE RECYCLE

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KEYNOTES

NOTES

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PROJECT:

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SHEET NAME:

EROSION CONTROL PLAN

SCHEMATIC DESIGN

DATE: **2026.01.23**

CLIENT PROJ NO: **3361-008-101**

SHEET:

C-5.0

IF THE LINE BROWN ABOVE IS NOT 1" LONG, ADJUST ALL ITEMS SHEET'S ORIGINAL PAGE SIZE

GENERAL NOTES:

1. IN CASE OF EMERGENCY, CALL: CONTRACTOR NAME _____. PHONE NUMBER: _____.
2. A STAND–BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON–SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE BUILDING OFFICIAL IF THE GRADING OPERATION HAS PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
4. GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. ALL LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL HAZARD TO OFF–SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY BASIS.
5. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
6. A GUARD SHALL BE POSTED ON SITE WHEREVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET. THE DEVICE SHALL BE DRAINED OR PUMPED DRY WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP FOR DEWATERING OPERATIONS.
7. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTAIN POLLUTANTS WITHIN THE SITE IS LEFT TO THE DISCRETION OF THE QSP. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
8. DESILTING BASINS MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN NOVEMBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
9. STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES, THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE FIELD ENGINEER. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE BUILDING OFFICIAL.
10. EVERY EFFORT MUST BE MADE TO ELIMINATE THE DISCHARGE OF NONSTORM WATER FROM THE PROJECT SITE AT ALL TIMES.
11. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON–SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
12. STOCKPILES OF EARTH AND OTHER CONSTRUCTION–RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
13. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTINGS AND ARE NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
14. EXCESS OR WASTE CONCRETE MAY NOT BE WASTED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON–SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
15. DEVELOPERS/CONTRACTORS ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES AND BMP's ARE INSTALLED AND FUNCTIONING PROPERLY IF THERE IS A 40% CHANCE OF 0.25 INCHES OR GREATER OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL (COPIES OF SELF–INSPECTION CHECKLIST AND INSPECTION LOGS ARE AVAILABLE UPON REQUEST). AT HIS/HER EXPENSE THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A QUALIFIED SWPPP PRACTITIONER FOR THE DURATION OF THE PROJECT.
16. TRASH AND CONSTRUCTION–RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
17. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
18. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
19. AS THE ENGINEER OF RECORD, I HAVE SELECTED APPROPRIATE BMPs TO EFFECTIVELY MINIMIZE THE NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE PROJECT OWNER AND CONTRACTOR ARE AWARE THAT THE SELECTED BMPs MUST BE INSTALLED, MONITORED, AND MAINTAINED TO ENSURE THEIR EFFECTIVENESS. THE BMPs NOT SELECTED FOR IMPLEMENTATION ARE REDUNDANT OR DEEMED NOT APPLICABLE TO THE PROPOSED CONSTRUCTION QUALITY."
20. THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE "CALIFORNIA STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK" – JANUARY 2003, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY THE PROJECT ENGINEER OR THE BUILDING OFFICIAL). _____
BUILDING OFFICIAL SIGNATURE

EROSION CONTROL

EC1 – SCHEDULING
EC2 – PRESERVATION OF EXISTING VEGETATION
EC3 – HYDRAULIC MULCH
EC4 – HYDROSEEDING
EC5 – SOIL BINDERS
EC6 – STRAW MULCH
EC7 – GEOTEXTILES AND MATS
EC8 – WOOD MULCHING
EC9 – EARTH DIKES AND DRAINAGE SWALES
EC10 – VELOCITY DISSIPATION DEVICES
EC11 – SLOPE DRAINS
EC12 – STREAMBANK STABILIZATION
EC13 – RESERVED
EC14 – COMPOST BLANKETS
EC15 – SOIL PREPARATION/ROUGHENING
EC16 – NON–VEGETATED STABILIZATION

TEMPORARY SEDIMENT CONTROL

SE1 – SILT FENCE
SE2 – SEDIMENT BASIN
SE3 – SEDIMENT TRAP
SE4 – CHECK DAM
SE5 – FIBER ROLLS
SE6 – GRAVEL BAG BERM
SE7 – STREET SWEEPING AND VACUUMING
SE8 – GRAVEL BAG BARRIER
SE9 – STRAW BALE BARRIER
SE10 – STORM DRAIN INLET PROTECTION
SE11 – ACTIVE TREATMENT SYSTEMS
SE12 – TEMPORARY SILT DIKE
SE13 – COMPOST SOCKS & BERMS
SE14 – BIOFILTERS BAGS

WIND EROSION CONTROL

WE1 – WIND EROSION CONTROL

EQUIPMENT TRACKING CONTROL

TC1 – STABILIZED CONSTRUCTION ENTRANCE EXIT
TC2 – STABILIZED CONSTRUCTION ROADWAY
TC3 – ENTRANCE/OUTLET TIRE WASH

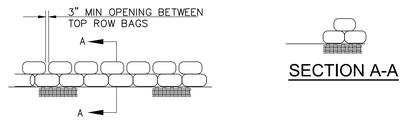
NON–STORMWATER MANAGEMENT

NS1 – WATER CONSERVATION PRACTICES
NS2 – DEWATERING OPERATIONS
NS3 – PAVING AND GRINDING OPERATIONS
NS4 – TEMPORARY STREAM CROSSING
NS5 – CLEARWATER DIVERSION
NS6 – ILLICIT CONNECTION/DISCHARGE
NS7 – POTABLE WATER/IRRIGATION
NS8 – VEHICLE AND EQUIPMENT CLEANING
NS9 – VEHICLE AND EQUIPMENT FUELING
NS10 – VEHICLE AND EQUIPMENT MAINTENANCE
NS11 – PILE DRIVING OPERATIONS
NS12 – CONCRETE CURING
NS13 – CONCRETE FINISHING
NS14 – MATERIAL AND EQUIPMENT USE
NS15 – DEMOLITION ADJACENT TO WATER
NS16 – TEMPORARY BATCH PLANTS

WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL

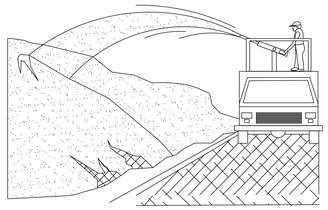
WM1 – MATERIAL DELIVERY AND STORAGE
WM2 – MATERIAL USE
WM3 – STOCKPILE MANAGEMENT
WM4 – SPILL PREVENTION AND CONTROL
WM5 – SOLID WASTE MANAGEMENT
WM6 – HAZARDOUS WASTE MANAGEMENT
WM7 – CONTAMINATION SOIL MANAGEMENT
WM8 – CONCRETE WASTE MANAGEMENT
WM9 – SANITARY/SEPTIC WASTE MANAGEMENT
WM10 – LIQUID WASTE MANAGEMENT

1 GENERAL NOTES



SECTION A-A

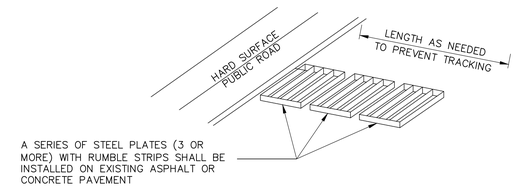
2 GRAVEL BAG DETAIL
NOT TO SCALE



NOTES:

1. SOIL/SLOPE STABILIZATION PRACTICES SHALL BE DESIGNED TO PRESERVE EXISTING VEGETATION WHERE FEASIBLE AND TO REVEGETATE OPEN AREAS AS SOON AS FEASIBLE AFTER GRADING. THESE CONTROL PRACTICES SHALL INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, OR OTHER SOIL STABILIZATION PRACTICES.
2. SOIL STABILIZATION SHALL BE IMPLEMENTED ON ALL INACTIVE DISTURBED AREAS FROM NOVEMBER 1 THRU APRIL 15 AND ON ALL DISTURBED AREAS DURING A RAIN EVENT OR POTENTIAL RAIN.
3. STABILIZATION PRACTICES SHALL CONTROL/PREVENT EROSION FROM THE FORCES OF WIND AND WATER.
4. STABILIZATION PRACTICES SHALL BE IMPLEMENTED IN CONJUNCTION WITH SEDIMENT TRAPPING/FILTERING PRACTICES AND PRACTICES TO REDUCE THE TRACKING OF SEDIMENT ONTO PAVED ROADS.
5. WHEN USING STRAW MULCHING, THE MINIMUM APPLICATION SHALL BE 2 TONS/ACRE. MULCH MUST BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.
6. WHEN USING HYDROSEEDING/MULCHING, THE MINIMUM APPLICATION OF WOOD FIBER SHALL BE 1,500 LBS/ACRE,THAT DOES NOT CONTAIN MORE THAN 50 PERCENT NEWSPRINT.
7. FOR SEEDING RECOMMENDATIONS, USDA, NATURAL RESOURCES CONSERVATION SERVICE.

3 EROSION CONTROL
NOT TO SCALE



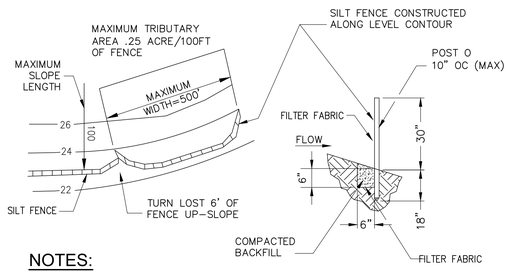
NOTES:

1. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
   A. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE RD OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
   B. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 4" COARSE AGGREGATE WITH LENGTH, WIDTH & THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.
3. ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

STREET MAINTENANCE

1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

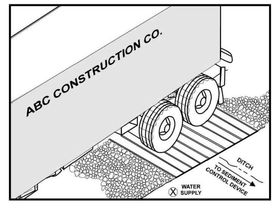
4 STABILIZED CONSTRUCTION ENTRANCE / EXIT
NOT TO SCALE



NOTES:

1. CONSTRUCT THE SILT FENCE ALONG A LEVEL CONTOUR.
2. SILT FENCES SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
3. PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOE OF SLOPE OR OTHER OBSTRUCTIONS. ABOUT 1200 SQ. FT. OF PONDING AREA SHALL BE PROVIDED FOR EVERY ACRE DRAINING TO THE FENCE.
4. TURN THE ENDS OF THE FILTER FENCE UPHILL TO PREVENT STORMWATER FROM FLOWING AROUND THE FENCE.
5. LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWNSLOPE FROM THE FENCE.
6. DO NOT PLACE IN LIVE STREAM OR INTERMITTENTLY FLOWING CHANNELS.
7. WHEN STANDARD FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY–DUTY WIRE STAPLES AT LEAST 1 INCH LONG. TIE WIRES OR HOG RINGS.

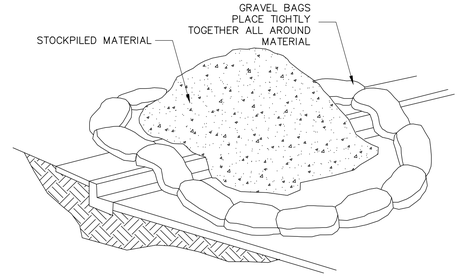
5 SILT FENCE
NOT TO SCALE



NOTES:

1. THE TIRE WASH REQUIRES A SUPPLY OF WASH WATER.
2. A TURNOUT OR DOUBLEWIDE EXIT IS REQUIRED TO AVOID HAVING ENTERING VEHICLES DRIVE THROUGH THE WASH AREA.
3. DO NOT USE WHERE WET TIRE TRUCKS LEAVING THE SITE LEAVE THE ROAD DANGEROUSLY SLICK.
4. INCORPORATE WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT.
5. CONSTRUCT ON LEVEL GROUND WHEN POSSIBLE, ON A PAD OF COARSE AGGREGATE GREATER THAN 3 IN. BUT SMALLER THAN 6 IN. A GEOTEXTILE FABRIC SHOULD BE PLACED BELOW THE AGGREGATE.
6. WASH RACK SHOULD BE DESIGNED AND CONSTRUCTED/MANUFACTURED FOR ANTICIPATED TRAFFIC LOADS.

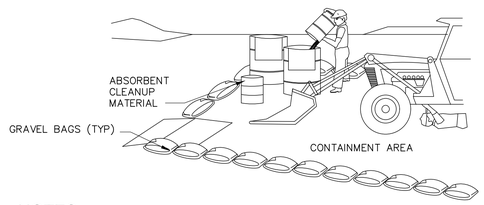
6 ENTRANCE/OUTLET TIRE WASH
NOT TO SCALE



NOTES:

1. DIRT AND OTHER CONSTRUCTION RELATED MATERIALS PLACED IN THE STREET OR ON OTHER IMPERVIOUS SURFACES MUST BE CONTAINED WITH SANDBAGS OR OTHER MEASURES TO PREVENT TRANSPORT TO THE STORMDRAIN SYSTEM.
2. ANY CONSTRUCTION MATERIAL STORED OR STOCKPILED ON–SITE SHALL BE PROTECTED FROM BEING TRANSPORTED BY THE FORCE OF WIND OR WATER.

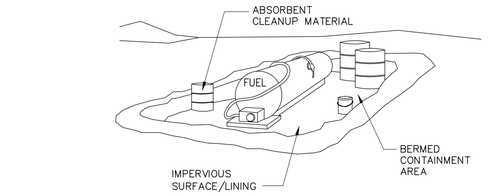
7 MATERIAL STORAGE
NOT TO SCALE



NOTES:

1. LEAKING VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED ON–SITE. EQUIPMENT AND VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS AND SHALL BE REPAIRED IMMEDIATELY. CLEAN UP SPILLS AND LEAKS PROMPTLY WITH ABSORBENT; DO NOT FLUSH WITH WATER.
2. VEHICLES AND EQUIPMENT SHALL BE MAINTAINED AND REPAIRED ON–SITE ONLY IN DESIGNATED AREAS. PREVENT RUN–ON AND RUN–OFF FROM DESIGNATED AREAS. CONTAINMENT DEVICES SHALL BE PROVIDED AND AREAS SHALL BE COVERED IF NECESSARY.
3. DESIGNATE ON–SITE VEHICLE AND EQUIPMENT MAINTENANCE AREAS, WAY FROM STORM DRAIN INLETS AND WATERCOURSES.
4. ALWAYS USE SECONDARY CONTAINMENT, SUCH AS A DRAIN PAN OR DROP CLOTH, TO CATCH SPILLS AND LEAKS WHEN REMOVING OR CHANGING FLUIDS.
5. LEGALLY DISPOSE OF USED OILS, FLUIDS, AND LUBRICANTS.
6. PROVIDE SPILL CONTAINMENT DIKES OR SECONDARY CONTAINMENT AROUND STORED OIL, FUEL, AND CHEMICAL DRUMS.
7. MAINTAIN ON ADEQUATE SUPPLY OF ABSORBENT SPILL CLEANUP MATERIALS IN DESIGNATED AREA.

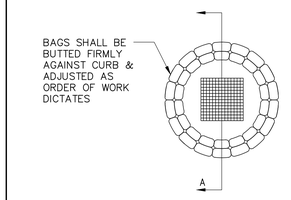
8 EQUIPMENT REPAIR/MAINTENANCE
NOT TO SCALE

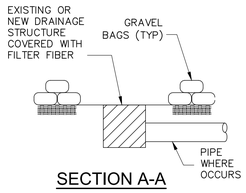


NOTE:

1. FUELING SHALL BE PERFORMED IN A DESIGNATED AREA, AWAY FROM COURSES. ABSORBENT CLEANUP MATERIAL SHALL BE ON SITE AND USED IMMEDIATELY IN THE EVENT OF A SPILL.

9 VEHICLE / EQUIPMENT FUELING
NOT TO SCALE





SECTION A-A

10 GRAVEL BAG CHECKDAM
NOT TO SCALE

OWNER STATEMENT OF UNDERSTANDING:

AS THE PROJECT OWNER OR AUTHORIZED AGENT OF THE OWNER, I HAVE READ AND UNDERSTAND THE REQUIREMENTS TO CONTROL STORM WATER POLLUTION FROM SEDIMENTS, EROSION, AND CONSTRUCTION MATERIALS, AND I CERTIFY THAT I WILL COMPLY WITH THESE REQUIREMENTS. I, OR MY REPRESENTATIVE, CONTRACTOR, DEVELOPER, OR ENGINEER, WILL MAKE CERTAIN THAT ALL BMP SHOWN ON THIS PLAN WILL BE FULLY IMPLEMENTED, AND ALL EROSION CONTROL DEVICES WILL BE KEPT CLEAN AND FUNCTIONING. PERIODIC INSPECTIONS OF THE BMPs WILL BE CONDUCTED AND A CURRENT LOG, SPECIFYING THE EXACT NATURE OF THE INSPECTION AND ANY REMEDIAL MEASURES, WILL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES AND WILL BE AVAILABLE FOR THE REVIEW BY THE BUILDING OFFICIAL.

AS THE PROJECT OWNER OR AUTHORIZED AGENT OF THE OWNER, "I CERTIFY THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION SUBMITTED IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT SUBMITTING FALSE AND/OR INACCURATE INFORMATION, FAILING TO UPDATE THE LOCAL SWPPP TO REFLECT CURRENT CONDITIONS, OR FAILING TO PROPERLY AND/OR ADEQUATELY IMPLEMENT THE LOCAL SWPPP MAY RESULT IN REVOCATION OF GRADING AND/OR OTHER PERMITS OR OTHER SANCTIONS PROVIDED BY THE LAW."

_____ _____
OWNER OR AUTHORIZED REPRESENTATIVE (PERMITEE) DATE

11 STATEMENT OF UNDERSTANDING

KEYNOTES

NOTES

DESIGN FOR GOOD
HMC Architects
3361-008-000
633 W. 5TH STREET, THIRD FLOOR, LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

NOT FOR CONSTRUCTION

ISSUE

Δ	DESCRIPTION	DATE
	SCHEMATIC DESIGN	01/23/2026

REGISTERED PROFESSIONAL ENGINEER — STRUCTURAL — No. C36079 — Exp. 6/30/26 — CIVIL — STATE OF CALIFORNIA

MCA ENGINEERS INC
STRUCTURAL
631 S Atlantic Blvd.
Monterey Park, CA 91754
Tel. 323.724.6066 Fax. 626.872.0795

FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

EROSION CONTROL DETAILS

SCHEMATIC DESIGN

DATE: **2026.01.23** | CLIENT PROJ NO: **3361-008-101**

SHEET:

C-5.1

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS 1" WHEN PRINTED ON FULL SHEETS (ORIGINAL SHEET SIZE)

ELECTRICAL GENERAL NOTES

1. CONSULT WITH THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK. NO CONDUITS ARE TO BE INSTALLED ON ARCADES OR ROOF U.O.N. ANY CONDUITS INSTALLED ON ROOF SHALL BE LIMITED TO 5'-0" OF SOLAR EXPOSURE.
2. CONDUIT RUNS TO ROOF MOUNTED EQUIPMENT SHALL BE ACCOMPLISHED USING RUNS BELOW ROOF UNTIL UNDER THE EQUIPMENT, THEN THE RUN SHALL PENETRATE THE ROOF AT THE EQUIPMENT. COORDINATE THE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES.
3. THE CONTRACTOR SHALL USE SUFFICIENT BARRICADES AND TEMPORARY PROTECTION DEVICES TO PREVENT PEDESTRIANS OR NON-AUTHORIZED PERSONNEL ACCESS TO ANY OPEN TRENCHES OR CONSTRUCTION ACTIVITY.
4. THE CONTRACTOR SHALL ERECT A SAFETY BARRICADE AT ALL OPEN TRENCHES, DITCHES, PITS, SUMPS, ETC FOR THE PROTECTION AND SAFETY OF THE PUBLIC.
5. ALL TRENCHES OUTSIDE OF THE BARRICADE LIMITS SHALL BE BACKFILLED AND PAVED NOT LATER THAN 72 HOURS AFTER BEING OPENED.
6. DURING THE TIME THE TRENCHES ARE OPEN IN TRAFFIC AREAS, THE CONTRACTOR SHALL PROVIDE TRAFFIC PLATES. SAFETY BARRICADES SHALL BE PANELIZED CHAIN LINK FENCE.
7. EACH FENCE PANEL SHALL BE 6FT TALL x 10FT WIDE WITH STAND AND TIED TOGETHER END TO END WITH A MINIMUM 8-GAUGE WIRE. NO TRENCHES SHALL BE LOCATED OUTSIDE BARRICADES.
8. WHERE STRUCTURAL WALLS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW HOLES, UNLESS DIRECTED OTHERWISE BY THE OAR AND ENGINEER.
9. CONTRACTOR MUST SCAN FOR REBAR AND CONSULT WITH A STRUCTURAL ENGINEER PRIOR TO CORE DRILLING. ALL FEEDER AND BRANCH CIRCUIT RACEWAYS SHALL CONTAIN A GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC ALL UNDERGROUND CONDUITS SHALL BE ENTIRELY ENCASED IN CONCRETE 3" THICK ON ALL SIDES WITH MULTIPLE CONDUITS SPACED NOT LESS THAN 3" APART.
10. MINIMUM DEPTH OF NOT LESS THAN 24" BELOW FINISHED GRADE TO THE TOP OF CONCRETE ENVELOPE. ALL RACEWAYS INSIDE CLASSROOMS AND OFFICES SHALL BE CONCEALED.
11. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS PRIOR TO PULLING ANY CONDUCTORS, CLEAN AND MANDREL ALL CONDUITS.
12. CONTRACTOR SHALL INSTALL EQUIPMENT PER ADA (AMERICAN DISABILITIES ACT) REQUIREMENTS. SUPPLIERS OF FIRE ALARM SYSTEM SHALL PREPARE CONSTRUCTION DRAWINGS SHOWING ALL NECESSARY WIRES AND CABLES, PER THE APPROPRIATE SPEC.
13. SECTION AND VERIFY SIZE OF ALL CONDUITS PRIOR TO ENCASING CONDUITS IN CONCRETE. DRAWINGS DO NOT SHOW ALL THE NECESSARY PULLBOXES.
14. PROVIDE ALL PULLBOXES TO COMPLY WITH CODES AND STANDARDS AND TO TERMINATE CONDUITS AND RACEWAYS PER MANUFACTURER'S RECOMMENDATIONS THROUGHOUT SITE. EXTERIOR EQUIPMENT, JUNCTION BOXES, ENCLOSURES AND CONNECTIONS SHALL BE WEATHERPROOF TYPE SUITABLE FOR EXTERIOR INSTALLATION.
15. COORDINATION: IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THE FEATURES SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.
16. BEFORE STARTING ANY UNDERGROUND WORK, THE CONTRACTOR SHALL CONTACT ALL UTILITY (OFF SCHOOL PROPERTY LINE) COMPANIES IN ORDER TO LOCATE EXISTING UNDERGROUND LINES. IN THE EVENT THAT DURING THE UNDERGROUND WORK THE CONTRACTOR DAMAGES ANY EXISTING LINES, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DO ALL NECESSARY REPAIR WORK AT THEIR OWN EXPENSE.
17. ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDUITS SHALL BE CHECKED AND VERIFIED ON THE SITE BY GENERAL CONTRACTOR, AND EACH SUB-CONTRACTOR BEFORE THE WORK BEGINS. ERRORS, OMISSIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE OAR'S ATTENTION BEFORE CONSTRUCTION BEGINS.
18. THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED AS "PROVIDED BY OTHERS".
19. CONTRACTOR SHALL ELECTRONICALLY SCAN THE UNDERGROUND CORRIDOR WHERE THE NEW TRENCHING SHALL OCCUR. EXISTING UNDERGROUND UTILITIES SHALL BE LOCATED BOTH ON THE HORIZONTAL AND VERTICAL PLANES USING ELECTRONIC OR RADIO DETECTION DEVICES. SYSTEMS THAT ARE NON-METALLIC SHALL HAVE A METALLIC TRACER WIRE INSERTED INTO THE CONDUIT TO FACILITATE TRACING OF ALIGNMENT.
20. ALL ELECTRICAL CONDUCTORS SHALL BE COPPER AND RATED FOR 600 VOLTS AT 90°C, WITH INSULATION TYPE THHN, THWN-2 OR XHHW. ALL CONDUCTORS #10 AND LARGER SHALL BE STRANDED, #12 AND SMALLER MAY BE EITHER STRANDED OR SOLID. PROVIDE APPROVED TERMINATIONS FOR ALL CONDUCTORS.
21. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED FLOOR SLABS, SHAFTS AND WALLS SHALL BE SEALED AGAINST THE SPREAD OF FIRE OR SMOKE WITH APPROVED CABLE & CONDUIT FIRE STOPS OR FIRE RESISTANT SEALANT TO GIVE THE EQUIVALENT FIRE RATING BEFORE AND AFTER THE PENETRATION.
22. PROVIDE NYLON PULL CORD OR STRINGS IN ALL EMPTY CONDUITS. ADD IDENTIFIER TAG ON PULL STRINGS FOR THE DESTINATION LOCATION. ALL JUNCTION BOX COVER PLATES FOR BRANCH CIRCUIT SYSTEM SHALL BE CLEARLY MARKED WITH PERMANENT INK FELT PEN IDENTIFYING THE BRANCH CIRCUIT (BOTH PANEL NUMBER AND CIRCUIT NUMBER) CONTAINED IN THE BOX.
23. ALL EQUIPMENT ANCHORAGE SHALL BE DETAILED ON DRAWINGS. DESIGN SHALL CONFORM TO 2019 CBC SECTION 1623A AND TABLE 16 A-O. THE CONTRACTOR SHALL MAINTAIN THE UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM IN ALL CONDUITS/RACEWAYS.
24. TEST THE ENTIRE SYSTEM TO DEMONSTRATE TO THE ENGINEER OF RECORD THAT THE ELECTRICAL COMPONENTS AND SPECIAL SYSTEMS ARE COMPLETE AND FUNCTION PROPERLY. MAKE NECESSARY CORRECTIONS AND LEAVE SYSTEMS READY FOR OPERATION. EXPOSED CONDUITS SHALL BE INSTALLED ALONG MECHANICAL PIPES.
25. INSIDE BUILDING THE EXPOSED CONDUITS UP TO 7'-0" SHALL BE RIGID STEEL AND ABOVE 7'-0" MAY BE EMT. ALL EXPOSED EXTERIOR CONDUITS SHALL BE GALVANIZED RIGID CONDUIT. THREADLESS CONNECTORS & COUPLINGS SHALL NOT BE USED. ALL EXPOSED CONDUITS, RACEWAYS, AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED. DO NOT PAINT THE WIREMOLD.
26. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND THE SIZE AND LOCATION OF EQUIPMENT IS INDICATED TO SCALE WHENEVER POSSIBLE. CONTRACTOR IS REQUIRED TO VERIFY CONDITIONS, DIMENSION INDICATED EQUIPMENT SIZES, MANUFACTURER'S DATA AND INFORMATION AS NECESSARY TO INSTALL THE WORK.
27. COORDINATE LOCATION AND LAYOUT WITH OTHER WORK. CONTRACTOR SHALL PROVIDE TO THE ENGINEER A 1/4"=1'-0" SCALED DRAWING OF ELECTRICAL EQUIPMENT ROOMS SHOWING LOCATION AND CLEARANCES OF SUBMITTED EQUIPMENT FOR REVIEW AND APPROVAL PRIOR TO ORDERING OF ELECTRICAL EQUIPMENT.

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
E0.01	ELECTRICAL FRONT SHEET
E0.02	ELECTRICAL LEGEND AND ABBREVIATIONS
E0.03	SINGLE LINE DIAGRAM AND LOAD CALCULATION
E0.04	ELECTRICAL PANEL SCHEDULES
E1.01	ELECTRICAL DEMOLITION SITE PLAN
E2.01	ELECTRICAL SITE PLAN
E2.11	ELECTRICAL PORTABLE FLOOR PLAN
E5.01	ELECTRICAL DETAILS
E5.02	ELECTRICAL DETAILS

STANDARD ABBREVIATIONS

A OR AMP	AMPERES
A/C	ASPHALT CONCRETE
AFF	ABOVE FINISH FLOOR
BKR.	BREAKER
BC	BARE COPPER
C	CONDUIT
CKT.	CIRCUIT
C.O.	CONDUIT ONLY
D	DEPTH
F.A.	FIRE ALARM
FLA	FULL LOAD AMPERES
FO	FIBER OPTIC, 4 STRAND
FO/D	FIBER OPTIC/CAT-5E
GRND.	GROUND
G.F.I.	GROUND FAULT INTERRUPTER
H.P.	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FRAME
Isc	AVAILABLE SHORT CIRCUIT CURRENT
SEC.	SECURITY SYSTEM
CLK.	CLOCK SYSTEM
J-BOX	JUNCTION BOX
KW	KILOWATTS
LDF	LOCAL DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
N.I.C.	NOT IN CONTRACT
PA	PUBLIC ADDRESS
PB	PULL BOX
PABX	PHONE BOARD EXCHANGE
PH or Ø	PHASE
SLC	SIGNALING LINE CIRCUIT
SW.	SWITCH
TYP.	TYPICAL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
UG	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
VL or V.L.	VERIFY LOCATION PRIOR TO ROUGH-IN
W.P.	WEATHERPROOF
WP	WEST PENN
XFMR	TRANSFORMER

CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES

2025 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS
(PER 2022 CBC PART 2 CH. 35)

LOW VOLTAGE GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ALL LOW VOLTAGE SYSTEM CONDUIT AND CABLE TRAY INFRASTRUCTURE AS REQUIRED FOR USE OF ROUTING LOW VOLTAGE CONDUCTORS BY LOW VOLTAGE CONTRACTOR.
2. TELE/DATA CONDUITS AND POWER CONDUITS IF RUN PARALLEL, SHALL HAVE NO LESS THAN 12" SEPARATION BETWEEN CONDUITS. ALL EXPOSED CONDUIT SHALL BE EMT AND SHALL BE RUN AS HIGH AS POSSIBLE, GROUPED AND SPACED EVENLY WITH TYPICAL HANGERS.
3. REFER TO SECURITY SYSTEM CONSULTANT'S DRAWINGS PRIOR TO ROUGH-IN, FOR EXACT LOCATIONS AND SECURITY DEVICES REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE BACKBOX, MUD RINGS, ELECTRIC STRIKES, AND CONDUITS AS REQUIRED FOR COMPLETE INSTALLATION.
4. REFER TO A/V SYSTEM CONSULTANT'S DRAWINGS FOR A/V DEVICE PRIOR TO ROUGH-IN, (BACKBOX, MUD RING AND CONDUIT) AND EQUIPMENT LOCATIONS AND FOR OTHER A/V SYSTEM REQUIREMENTS AND PROVIDE AS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE EQUIPMENT GROUND CONDUCTOR TO RECEPTACLES THAT ARE UTILIZED TO SERVE A/V SYSTEM EQUIPMENT.
5. CONTRACTOR SHALL PROVIDE PULL CORDS IN ALL LOW VOLTAGE CONDUITS. WHERE MORE THAN ONE CONDUIT TERMINATES IN A JUNCTION BOX, THE ELECTRICAL CONTRACTOR SHALL IDENTIFY EACH JUNCTION BOX AND CONDUIT IN A MANNER ALLOWING IDENTIFICATION JUNCTION BOXES AND CONDUITS AFTER ALL WALL FINISHES HAVE BEEN APPLIED.

DEMOLITION GENERAL NOTES

1. CONTRACTOR TO REVIEW ARCHITECTURAL AND ELECTRICAL PLANS FOR ALL EXISTING EQUIPMENT TO BE REMOVED. ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THESE DRAWINGS OR NOT, THAT ARE LOCATED IN REMOVED WALLS, FLOORS, OR CEILING, SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL VISIT THE SITE, INCLUDING ALL AREAS INDICATED ON THE DRAWINGS, SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND, BY SUBMITTING A BID, SHALL ACCEPT CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK.
3. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, ELECTRICAL EQUIPMENT, ETC., AFFECTED BY THE RENOVATION. THIS WILL INCLUDE REROUTING OR EXTENDING OF EXISTING CONDUIT AND FEEDERS WHERE NECESSARY TO MAINTAIN THE CONTINUITY OF THE EXISTING EQUIPMENT TO REMAIN.
4. EXISTING CIRCUIT NUMBERS AND HOMERUNS SHOWN ON THESE DRAWINGS WERE TAKEN FROM EXISTING RECORD DRAWINGS. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF HOMERUNS, AND TO ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS AS REQUIRED.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION WHICH ARE BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSISTS OF REROUTING CONDUIT, WIRING, ETC., AS REQUIRED.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT, AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS IN AN " AS-FOUND" CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
7. WHERE NEW CIRCUITS ARE SHOWN TO EXISTING PANELS, INSTALL NEW BREAKERS (MINIMUM 20 AMP, SINGLE POLE) AS CALLED FOR ON DRAWINGS.
8. EXISTING CONDUIT MAY BE REUSED IF ADEQUATELY SIZED, BUT IN NO CASE SHALL ANY EXISTING CONDUCTORS BE REUSED.
9. DURING EACH PHASE OF DEMOLITION, ALL CIRCUITS FROM EXISTING PANELS WHICH FEED AREAS OUTSIDE THE BOUNDARIES OF THAT PHASE, SHALL BE MAINTAINED.
10. ALL ABANDONED OUTLETS INCLUDING LIGHT, RECEPTACLES, DATA/TEL, ETC., SHALL BE COVERED AND PATCHED TO MATCH THE FINISH OF SURROUNDING WALL OR CEILING TO THE SATISFACTION OF THE OWNER.
11. CONTRACTOR SHALL PROTECT ALL EXISTING SYSTEMS WHICH ARE TO REMAIN, INCLUDING BUT NOT LIMITED TO: DATA/TEL, FIRE ALARM, SECURITY, CLOCK, BELL, POWER AND LIGHTING. ALL OUTLETS, HARDWARE, CONDUIT AND CONDUCTORS ARE TO BE SECURED FROM DAMAGE. CONTRACTOR SHALL TEST ALL OUTLETS, HARDWARE, CONDUIT AND CONDUCTORS PRIOR TO COMMENCEMENT OF WORK, AND PROVIDE A WRITTEN REPORT TO OWNER/ARCHITECT, INDICATING ANY FAILURES OR DAMAGE.

SCOPE OF WORK

ELECTRICAL AND LOW VOLTAGE/TECHNOLOGY SERVICES FOR AN INTERIM HOUSING PROJECT AT ARROYO HIGH SCHOOL. THE PROJECT INVOLVES RELOCATING THE EXISTING ADMINISTRATIVE OFFICE AND BAND ROOM INTO EXISTING BUILDINGS ON THE CAMPUS BEFORE THE DEMOLITION OF THEIR CURRENT FACILITIES.

DESIGN FOR GOOD
HMC Architects
3361-008-000
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

NOT FOR CONSTRUCTION

ISSUE

Δ	DESCRIPTION	DATE
	SCHEMATIC DESIGN	01/23/2026

CONSULTANT:

Budlong
An MBE|SBE|DBE|LSBE Firm
Glendale|Downtown LA|Fremont|Camarillo
W W W . B U D L O N G . C O M
Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

ELECTRICAL FRONT SHEET

SCHEMATIC DESIGN

DATE: **2026.01.23** | CLIENT PROJ NO: **3361-008-101**

SHEET:

E0.01

Autodesk Docs://3361008102 EMUSD Arroyo Relo Existing Portable Pkgs/R24/EFA&LV/24_24-335-Arroyo HS - Relocation of Portables.rvt
21-01-2026 20:14:22

PLEASE RECYCLE

IF THIS LINE BRAKES ABOVE IS NOT 1" THEN DRAWING IS AN EXTENDED ORIGINAL SHEET SIZE

CONDUIT/CONDUCTOR TYPE

CONDUIT: EXPOSED IN UNFINISHED AREA; CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS. 3/4"C, U.O.N. NO HASH MARKS, 2#12 AND 1#12 GREEN GROUND WIRES.

A-1,3,5 — HOMERUN TO PANEL "A" CIRCUITS 1,3,5, CROSS LINES INDICATE NUMBER OF #10 IN ADDITION TO 1#10 GREEN GROUND. 3/4"C, U.O.N.

CONDUIT; IN OR BELOW FLOOR OR BELOW GRADE.

RIGID THREADED CONDUIT WITH SEAL-OFF (CLASS I, DIV.2 CONDITION)

CONDUIT SYSTEM RISER UP.

CONDUIT SYSTEM RISER DOWN.

3/4"C, 2 #12 & 1 # 12 GROUND U.O.N.

3/4"C, 3 #12 & 1 #12 GROUND.

3/4"C, 4 #12 & 1 #12 GROUND.

3/4"C, 5 #12 & 1 #12 GROUND.

3/4"C, 6 #12 & 1 #12 GROUND.

3/4"C, 7 #12 & 1 #12 GROUND

1"C, 8 #12 & 1 #12 GROUND.

FEEDER SIZES FOR THE STARLINE BUS SYSTEM SHALL BE AS FOLLOWS (U.O.N.):

400A 3P — 4"C, 4#600KCM, 1#2G.

250A 3P — 2 1/2"C, 4#250KCM, 1#4G.

100A 3P — 1 1/2"C, 4#1, 1#8G.

60A 3P (XYX) — 1"C, 4#6, 1#8G.

(XXX) — HATCHING ON BUS INDICATES CONNECTION TO THE UPS SYSTEM BUS DESIGNATOR

3P-30A — BUS SHOWING MODULE AND RESPECTIVE CIRCUIT BREAKER(S)

ELECTRICAL SYMBOLS

LIGHTING SYSTEM

A / 100 — INDICATES FIXTURE TYPE A, 100 WATTS. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION.

HATCHED PORTION OF LIGHT FIXTURE INDICATES CONNECTION TO THE EMERGENCY POWER SYSTEM.

OS — OCCUPANCY SENSOR FOR LIGHTING CONTROL, CEILING MOUNTED, DUAL TECHNOLOGY ULTRASONIC - PASSIVE INFRARED PER SPECIFICATIONS. PROVIDE POWER PACKS AS REQUIRED FOR A COMPLETE, APPROVED, OPERATING SYSTEM.

OS — OCCUPANCY SENSOR FOR LIGHTING CONTROL, CORNER MOUNTED, DUAL TECHNOLOGY ULTRASONIC - PASSIVE INFRARED PER SPECIFICATIONS. PROVIDE POWER PACKS AS REQUIRED FOR A COMPLETE, APPROVED, OPERATING SYSTEM.

OCCUPANCY SENSOR FOR LIGHTING CONTROL, WALL MOUNTED, DUAL TECHNOLOGY ULTRASONIC - PASSIVE INFRARED PER SPECIFICATIONS. PROVIDE DUAL SWITCHING CAPACITY PER TITLE 24 WHERE REQUIRED.

S_{DXX} — SINGLE POLE DIMMER SWITCH. SUBSCRIPTS "a" & "b" INDICATE SWITCH LEGS CONTROLLED AND GANGED ASSEMBLY WITH A SWITCH FOR EACH SUBSCRIPT. PROVIDE BARRIER FOR SEPARATION OF EMERGENCY POWER WHERE REQUIRED, +48" TO TOP OF BOX, U.O.N.

S_M — MANUAL HP RATED SWITCH, WEATHER PROOF ENCLOSURE AS REQUIRED, INCLUDE REQUIRED NUMBER OF POLES AND MOTOR OVERLOAD RELAYS. PROVIDE GFI PROTECTED FOR LABORATORIES AND WET AREAS.

70A 3P EB — DISCONNECT SWITCH WITH CONNECTION TO EQUIPMENT SERVED, RATING AND NUMBER OF POLES AS SHOWN ON PLANS.

PUSH BUTTON SWITCH.

$\otimes_X$ — EXIT SIGN SHALL BE FURNISHED WHERE SHOWN.

PS — CEILING MOUNTED DAYLIGHT PHOTO SENSOR.

OS PS — CEILING MOUNTED OCCUPANY+DAYLIGHT PHOTO SENSOR COMBO, USE COMPATIBLE SWITCH PADS FOR DIMMING & POWER PACK FOR PLUG LOAD CONTROL.

LS — LIGHTING CONTROLLER/POWER PACK WITH RELAYS AS INDICATED ON PLAN.

RC — LIGHTING ROOM CONTROLLER

LCP — LIGHTING CONTROL PANEL

POWER SYSTEM

J — JUNCTION BOX; SURFACE MOUNTED OR INSIDE WALL.

J — CLASS 1, DIV.2 EXPLOSION PROOF JUNCTION BOX: SURFACE MOUNTED.

SINGLE POWER RECEPTACLE, 125V, 20 AMP, U.O.N.

DUPLEX RECEPTACLE; 125V, 20 AMP, NEMA 5-20R. CEILING MOUNTED.

DUPLEX RECEPTACLE ON UPS; 125V, 20 AMP, NEMA 5-20R. CEILING MOUNTED.

DUPLEX RECEPTACLE; 125V, 20 AMP, NEMA 5-20R. +18" U.O.N.

DUPLEX RECEPTACLE ON UPS; 125V, 20 AMP, NEMA 5-20R. +18" U.O.N.

DUPLEX RECEPTACLE WITH USB; 125V, 20 AMP, NEMA 5-20R. +18" U.O.N.

RECEPTACLE; 208V, 30 AMP, NEMA 6-30R. +18" U.O.N.

SWITCH CONTROLLED SPLIT LOAD DUPLEX RECEPTACLE; 125V., 20 AMP, NEMA 5-20R. +18" U.O.N.

G.F.I. DUPLEX RECEPTACLE, 125V, 20 AMP, NEMA 5-20R, +18" U.O.N. PROVIDE WP "WHILE IN USE" COVER IN EXTERIOR LOCATIONS.

QUAD RECEPTACLE; 125V, 20 AMP, NEMA 5-20R. +18" U.O.N.

QUAD G.F.I. RECEPTACLE; 125V, 20 AMP, NEMA 5-20R, +18" U.O.N. PROVIDE WP "WHILE IN USE" COVER IN EXTERIOR LOCATIONS.

SWITCH CONTROLLED SPLIT LOAD QUAD RECEPTACLE; 125V, 20 AMP, NEMA 5-20R. +18" U.O.N.

FLOOR DUPLEX RECEPTACLE, 125V, 20 AMP, NEMA 5-20R FLOOR

QUADPLEX RECEPTACLE, 125V, 20 AMP, NEMA 5-20R FLUSH IN FLOOR MOUNTED

COMBINATION DUPLEX RECEPTACLE/DATA OUTLET, 125V, 20 AMP, & CORRESPONDING DATA PLUGS.

20 — TWIST-LOCK RECEPTACLE, 125/250V, 20 AMP, NEMA L14-20R WITH MATCHING PLUG & 20 AMP CORD DROP, MAKE-UP CONNECTION TO EQUIPMENT SHOWN.

30 — TWIST-LOCK RECEPTACLE, 125/250V, 30 AMP, NEMA L14-30R WITH MATCHING PLUG & 30 AMP CORD DROP, MAKE-UP CONNECTION TO EQUIPMENT SHOWN.

400A 3P — STARLINE BUS SYSTEM SHOWING ENTRY BOX SIZE AND EQUIVALENT BUS.

WIRE MOLD RACEWAY, MODEL 2000, DUAL CHAMBER WITH QUANTITY OF RECEPTACLES AND DATA OUTLETS AS INDICATED. MOUNTING HEIGHT OF WIRE MOLD AS SPECIFIED ON PLANS. PROVIDE ALL WIRE MOLD FITTINGS, ELBOWS, BOXES, ETC. TO MAKE A COMPLETE SYSTEM.

1 — NOTE REFERENCE TAG.

1 / E001 — DETAIL REFERENCE TAG.

CABLE TRAY, 4" x 18" TOTAL (THREE SECTION WIRE BASKET).

R R — RELAY WITH ENCLOSURE AS REQUIRED.

PB — ELECTRICAL UNDERGROUND PULL BOX.

F — 250V HEAVY DUTY DISCONNECT SWITCH. H.P. RATED, PER EQUIPMENT MANUFACTURER, 3P U.O.N. "F" INDICATES FUSED, PROVIDE FUSE SIZE BASED ON NAMEPLATE RATING OF EQUIPMENT.

F — 480V, HEAVY DUTY DISCONNECT SWITCH. H.P. RATED, PER EQUIPMENT MANUFACTURER, 3P U.O.N. "F" INDICATES FUSED, PROVIDE FUSE SIZE BASED ON NAMEPLATE RATING OF EQUIPMENT.

VFD — 480V VFD (SUPPLIED BY MECHANICAL CONTRACTOR), WITH INTEGRAL DISCONNECTING MEANS. H.P. RATED, PER EQUIPMENT MANUFACTURER, 3P U.O.N.

F — COMBINATION FUSED MOTOR DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER SIZED ACCORDING TO MOTOR MANUFACTURER RECOMMENDATIONS, HOA, STARTER SIZE 1 MIN., SOLID STATE ADJUSTABLE OVER LOAD PROTECTION, MOUNTED ON INDEPENDENT SUPPORT.

F — HEAVY DUTY DISCONNECT SWITCH. H.P. RATED, AS PR ABOVE WITH INTEGRAL 15A GFI, 120V RECEPTACLE, SIMILAR TO EATON AUXILIARY POWER HEAVY DUTY FUSED SWITCH.

SURFACE MOUNTED PANELBOARD.

FLUSH MOUNTED PANELBOARD.

DISTRIBUTION PANELBOARD.

MAIN SWITCHBOARD.

75 — TRANSFORMER (75 KVA).

T — THERMOSTAT +48" U.O.N. 4S DEEP BACKBOX WITH 1-GANG PLASTER RING, (VERIFY ORIENTATION OF PLASTER RING WITH MECHANICAL CONTRACTOR), THERMOSTAT PROVIDED BY MECHANICAL, CONNECTED BY MECHANICAL.

DESIGN FOR GOOD
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3361-008-000
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213 542 8300 / www.hmcarchitects.com

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Δ	DESCRIPTION	DATE
	SCHEMATIC DESIGN	01/23/2026

CONSULTANT:

Budlong
An MBE|SBE|DBE|LSBE Firm
Glendale|Downtown LA|Fremont|Camarillo
W W W . B U D L O N G . C O M
Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

ELECTRICAL LEGEND AND ABBREVIATIONS

SCHEMATIC DESIGN

DATE: **2026.01.23** | CLIENT PROJ NO: **3361-008-101**

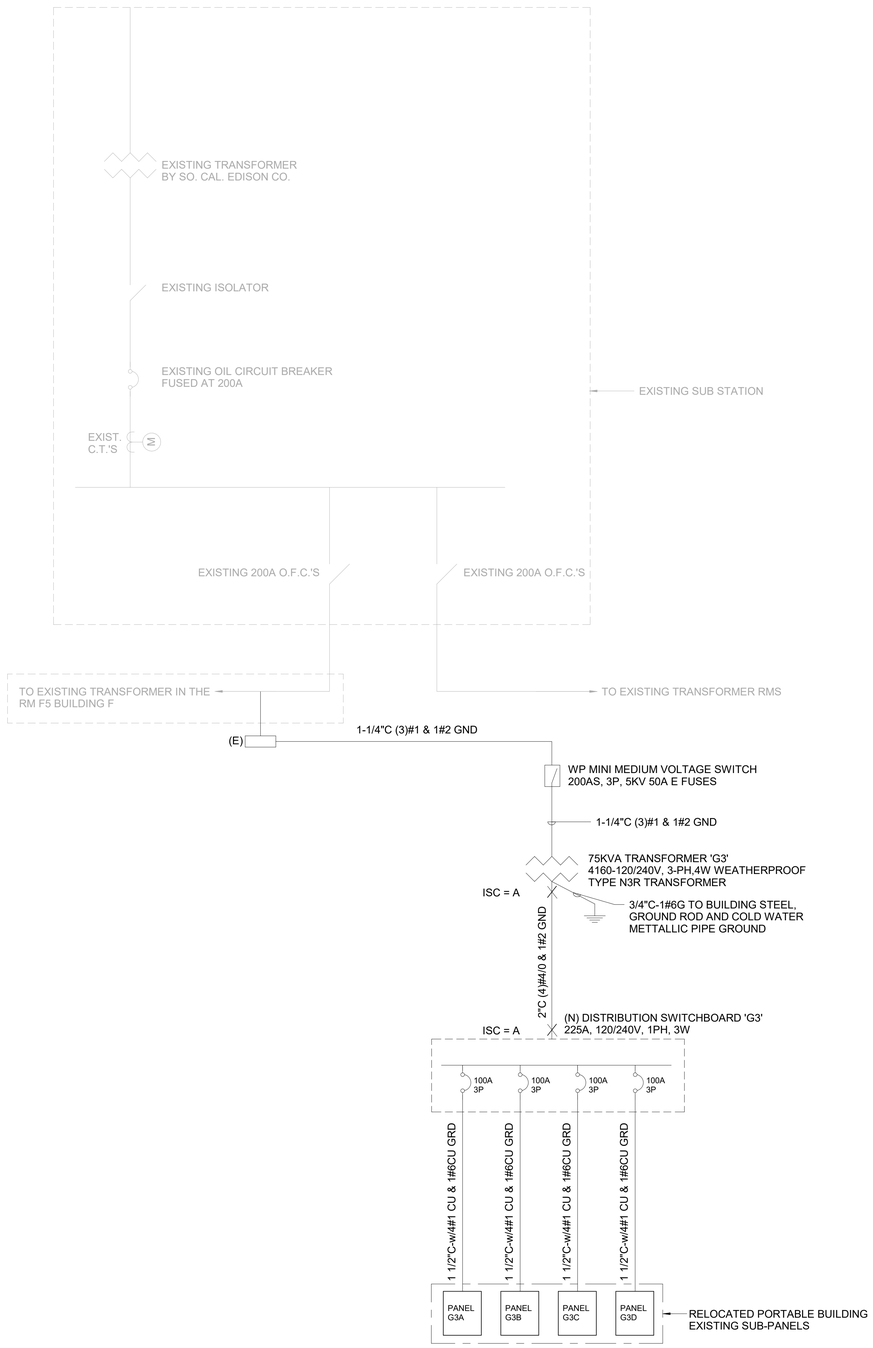
SHEET:

E0.02

Autodesk Docs://3361008102 EMUSD Arroyo Reloc Existing Portable Plug4 R24/EFA&LV24_24-335-Arroyo HS - Relocation of Portables.rvt
21-01-2026 20:14:23

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON A FULL SHEET (LOGICAL) SIZE PLOT



ELECTRICAL SINGLE LINE DIAGRAM

SCALE:NTS

1 / E0.03

GENERAL NOTES

A. ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE RATING OF EQUIPMENT. SERIES RATING OF DEVICES WITHIN A PIECE OF EQUIPMENT IS NOT ALLOWED.

B. ALL SWITCHBOARDS, DISTRIBUTION BOARDS, PANELS, TRANSFORMER AND CIRCUIT BREAKER SHALL BE OF SAME MANUFACTURER.

C. ALL CIRCUIT BREAKERS 600A AND ABOVE SHALL BE 100% SOLID STATE ELECTRONIC TRIP.

D. PROVIDE 20% SPACE IN ALL SWITCHBOARDS, DISTRIBUTION BOARDS AND DISTRIBUTION PANELS, UNLESS OTHERWISE NOTED ON PLANS.

E. CONDUCTORS FOR ALL WIRING SHALL BE OF COPPER, UNLESS OTHERWISE NOTED ON PLANS.

F. ALL BUSSING SHALL BE MADE IN COPPER. MAIN AND HORIZONTAL BUSSING SHALL BE RATED FOR FULL CAPACITY ON ALL SECTIONS. ALL BUSSING SHALL HAVE A WITHSTAND RATING EQUAL TO A MINIMUM OF 1.15% OF THE CALCULATED AVAILABLE FAULT CURRENT INDICATED, BUT IN NO CASE THE CURRENT INTERRUPTING RATING SHALL BE LESS THAN 65,000 AMPERES.

G. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.

H. ALL TERMINALS SHALL BE TORQUED TO MANUFACTURER'S LISTED SPECIFICATIONS.

I. ALL RACEWAYS SHALL CONTAIN A CODE-SIZED (CEC-250), INSULATED, GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.

J. ALL CONDUCTORS TO BE COPPER, TYPE THWN/THHN INSULATION RATED FOR 75°/90°C.

K. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AS PER CEC 210.4(B)&(D).

L. AN ARC FLASH COORDINATION STUDY SHALL BE PERFORMED BY CONTRACTOR FOR E.O.R. REVIEW IF REQUIRED.

M. CONTRACTOR IS TO CONFIRM ADEQUATE LANDING LUGS TO TERMINATE FEEDERS PER SINGLE LINE DIAGRAM AND FEEDER SCHEDULE.

CONSTRUCTION KEYNOTES

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CONSULTANT:
Budlong
An MBE|SBE|DBE|LSBE Firm
Glendale|Downtown LA|Fremont|Camarillo
W W W . B U D L O N G . C O M
Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

SINGLE LINE DIAGRAM AND LOAD CALCULATION

SCHEMATIC DESIGN

DATE: **2026.01.23** | CLIENT PROJ NO: **3361-008-101**

SHEET:

E0.03

PLEASE RECYCLE

Autodesk Docs://3361008102 EMUSD Arroyo Relo Existing Portable Pkg#R24/EFA&LV/24_24-335-Arroyo HS - Relocation of Portables.rvt
21-01-2026 20:14:23

IF THIS LINE SHOWN ABOVE IS NOT EXACTLY 1" LONG THIS SHEET IS ORIGINAL SPACE SIZE

Branch Panel: G3A

Location:
Supply From:
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/240 Single
Phases: 1
Wires: 3

Bus Size: 100A
MCB Frame: 100A
MCB Trip: 100A
A.I.C. Rating: 42KAIC

General Notes:

KN	CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	KN
	1									2	
	3									4	
	5									6	
	7									8	
	9									10	
	11									12	
	13									14	
	15									16	
	17									18	
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
			Total Load:		0 VA	0 VA					
			Total Amps:		0 A	0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Circuit Key Notes:

Branch Panel: G3B

Location:
Supply From:
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/240 Single
Phases: 1
Wires: 3

Bus Size: 100A
MCB Frame: 100A
MCB Trip: 100A
A.I.C. Rating: 42KAIC

General Notes:

KN	CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	KN
	1									2	
	3									4	
	5									6	
	7									8	
	9									10	
	11									12	
	13									14	
	15									16	
	17									18	
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
			Total Load:		0 VA	0 VA					
			Total Amps:		0 A	0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Circuit Key Notes:

Branch Panel: G3C

Location:
Supply From:
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/240 Single
Phases: 1
Wires: 3

Bus Size: 100A
MCB Frame: 100A
MCB Trip: 100A
A.I.C. Rating: 42KAIC

General Notes:

KN	CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	KN
	1									2	
	3									4	
	5									6	
	7									8	
	9									10	
	11									12	
	13									14	
	15									16	
	17									18	
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
			Total Load:		0 VA	0 VA					
			Total Amps:		0 A	0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Circuit Key Notes:

Branch Panel: G3D

Location:
Supply From:
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/240 Single
Phases: 1
Wires: 3

Bus Size: 100A
MCB Frame: 100A
MCB Trip: 100A
A.I.C. Rating: 42KAIC

General Notes:

KN	CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	KN
	1									2	
	3									4	
	5									6	
	7									8	
	9									10	
	11									12	
	13									14	
	15									16	
	17									18	
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
			Total Load:		0 VA	0 VA					
			Total Amps:		0 A	0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Circuit Key Notes:

PANEL SCHEDULE INDEX		
PANEL G3A	PANEL G3B	
PANEL G3C	PANEL G3D	

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	SCHEMATIC DESIGN	01/23/2026

CONSULTANT:

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Glendale|Downtown LA|Fremont|Camarillo
W W W . B U D L O N G . C O M
Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

ELECTRICAL PANEL SCHEDULES

SCHEMATIC DESIGN

DATE: **2026.01.23**
CLIENT PROJ NO: **3361-008-101**

SHEET:

E0.04

Autodesk Docs://3361008102 EMUSD Arroyo Relo Existing Portable Pkg4 R24/EPA&LV24_24-335-Arroyo HS - Relocation of Portables.rvt
2/4/2026 20:14:23

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS 1" LONG ON ORIGINAL PLOT. IF NOT, ADJUST SCALE ACCORDINGLY

GENERAL NOTES

A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO VERIFY ALL EXISTING CONDITIONS IN RELATION TO THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS. ANY DISCREPANCIES NOTED BETWEEN THE EXISTING CONDITIONS AND THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING OF BIDS.

B. SCHEDULING AND PHASING FOR DEMOLITION WORKS SHALL BE UNDERTAKEN WITH MINIMAL DISRUPTIONS ON THE OPERATIONS ON THE ELECTRICAL SYSTEMS OF THE AREAS/BUILDINGS/ROOMS NOT INCLUDED IN THE PROJECT SCOPE OF WORK.

C. EQUIPMENT SHOWN IN THE DRAWINGS TO BE REMOVED SHALL BE TAKEN OUT FROM THE SITE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS. EQUIPMENT REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE PLACED IN A LOCATION ACCEPTABLE TO THE OWNER.

D. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR TO START OF ANY DEMOLITION WORK AND REPORT ANY DISCREPANCIES NOTED TO THE ENGINEER-ON-RECORD (EOR).

E. CONTRACTOR TO DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AS SHOWN ON PLANS. DISCONNECT AND REMOVE THE EXISTING EQUIPMENT INCLUDING THE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.

F. MAINTAIN CONTINUITY OF EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING TO REMAIN. PROVIDE NEW CONDUIT AND WIRING TO EXTEND EXISTING CIRCUITS AS MAY BE REQUIRED.

G. DISCONNECT, REMOVE AND RELOCATE ANY BRANCH CIRCUIT CONDUITS THAT ARE IN CONFLICT WITH NEW CONSTRUCTION WORK. THE CONTINUITY OF ANY PART OF THE CIRCUITS TO REMAIN SHALL BE MAINTAINED AND KEEP IN OPERABLE CONDITION.

H. PROTECT EXISTING ELECTRICAL EQUIPMENT AND INSTALLATION SHOWN TO REMAIN. IF DAMAGED WHILE UNDERTAKING THE WORK, REMOVE THE DAMAGED SYSTEM OR EQUIPMENT AND REPLACE WITH THE SAME OR EQUIVALENT PRODUCT OF EQUAL CAPACITY AND TECHNICAL SPECIFICATIONS.

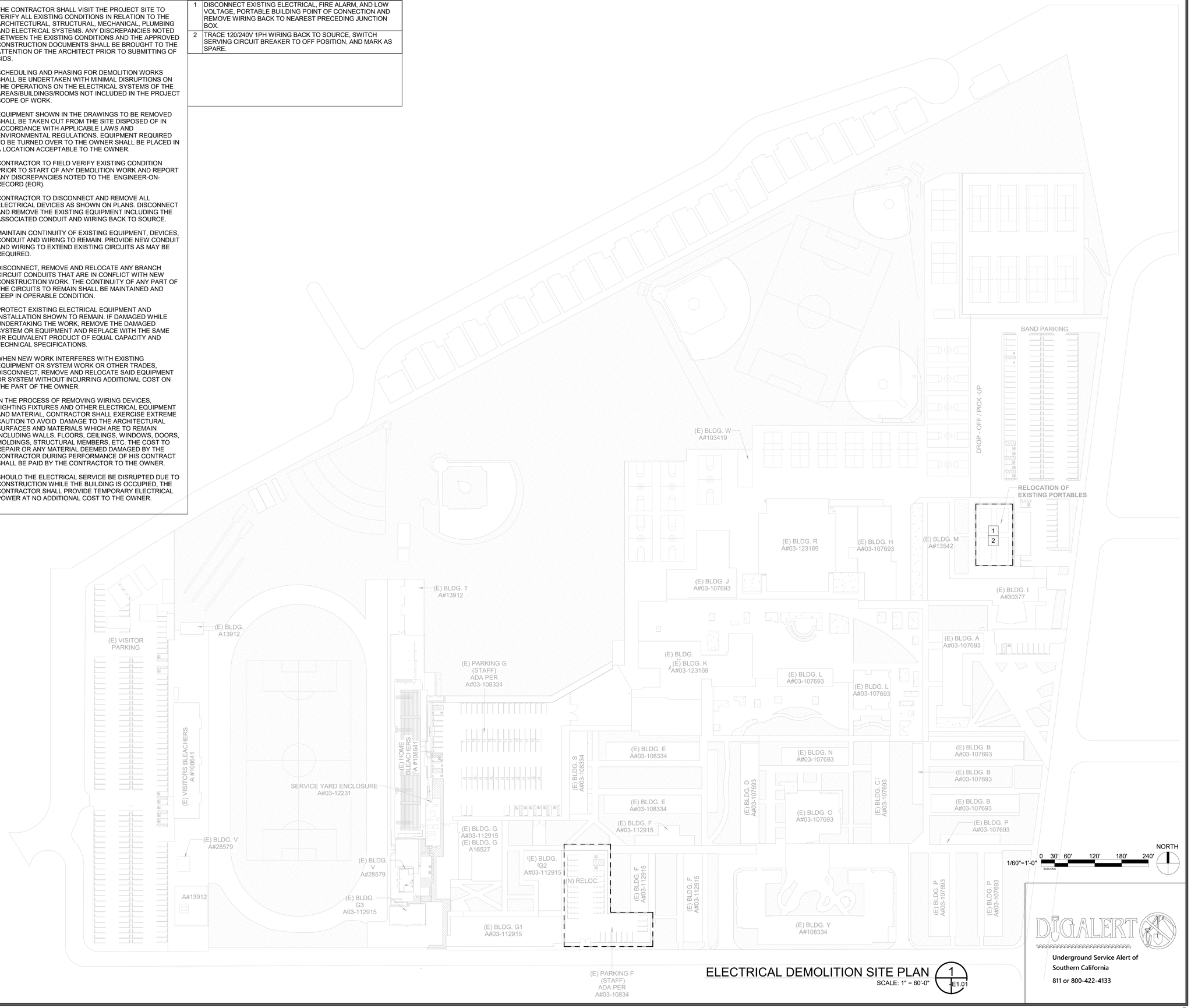
I. WHEN NEW WORK INTERFERES WITH EXISTING EQUIPMENT OR SYSTEM WORK OR OTHER TRADES, DISCONNECT, REMOVE AND RELOCATE SAID EQUIPMENT OR SYSTEM WITHOUT INCURRING ADDITIONAL COST ON THE PART OF THE OWNER.

J. IN THE PROCESS OF REMOVING WIRING DEVICES, LIGHTING FIXTURES AND OTHER ELECTRICAL EQUIPMENT AND MATERIAL, CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO AVOID DAMAGE TO THE ARCHITECTURAL SURFACES AND MATERIALS WHICH ARE TO REMAIN INCLUDING WALLS, FLOORS, CEILINGS, WINDOWS, DOORS, MOLDINGS, STRUCTURAL MEMBERS, ETC. THE COST TO REPAIR OR ANY MATERIAL DEEMED DAMAGED BY THE CONTRACTOR DURING PERFORMANCE OF HIS CONTRACT SHALL BE PAID BY THE CONTRACTOR TO THE OWNER.

K. SHOULD THE ELECTRICAL SERVICE BE DISRUPTED DUE TO CONSTRUCTION WHILE THE BUILDING IS OCCUPIED, THE CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL POWER AT NO ADDITIONAL COST TO THE OWNER.

DEMOLITION KEYNOTES

1	DISCONNECT EXISTING ELECTRICAL, FIRE ALARM, AND LOW VOLTAGE, PORTABLE BUILDING POINT OF CONNECTION AND REMOVE WIRING BACK TO NEAREST PRECEDING JUNCTION BOX.
2	TRACE 120/240V 1PH WIRING BACK TO SOURCE, SWITCH SERVING CIRCUIT BREAKER TO OFF POSITION, AND MARK AS SPARE.



ELECTRICAL DEMOLITION SITE PLAN
SCALE: 1" = 60'-0"

1 / E1.01

DIGALERT
Underground Service Alert of Southern California
811 or 800-422-4133

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CONSULTANT:

Budlong
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Glendale|Downtown LA|Fremont|Camarillo
W W W . B U D L O N G . C O M
Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

ELECTRICAL DEMOLITION SITE PLAN

SCHEMATIC DESIGN

DATE: **2026.01.23** | CLIENT PROJ NO: **3361-008-101**

SHEET:

E1.01

Autodesk Docs://3361008102 EMUSD Arroyo Relo Existing Portable Pkg4 R24/EF&ALV2A_24-335-Arroyo HS - Relocation of Portables.rvt
21-01-2026 20:14:26

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS 1" LONG ON ORIGINAL PLOT. IF NOT, ADJUST SCALE ACCORDINGLY

GENERAL NOTES

A. UNDERGROUND PULL BOX SHALL BE SIZED IN ACCORDANCE WITH CEC/NEC 314.28. USE PRECAST CONCRETE, AASHTO H-20 TYPE PULL BOX FOR DELIBERATE VEHICULAR TRAFFIC APPLICATIONS (E.G. WITHIN STREETS, HIGHWAYS AND PAVED SHOULDERS ALONG HIGHWAYS). USE PRECAST CONCRETE, LIGHT DUTY TYPE PULL BOX FOR PEDESTRIANS TRAFFIC ONLY (E.G. GRASSY AREAS IN RESIDENTIAL PROPERTIES THAT ARE LOCATED AWAY FROM VEHICULAR TRAFFIC. CONTRACTOR IS REQUIRED TO SIZE THE PULL BOXES, HANDHOLES AND ALL ELECTRICAL ENCLOSURES PER CEC 314. SIZES SHOWN ON THE PLANS ARE FOR REFERENCE ONLY, CONTRACTOR TO PROVIDE THE BIGGER OR EQUIVALENT SIZE PULL BOX. THE DEPTH OF THE PULL BOX SHALL HAVE ENOUGH SPACE TO ACCOMMODATE THE LARGEST SIZE CONDUITS AND RELATED LOCKNUTS, BUSHING AND ALL OTHER ACCESSORIES.

B. SCHEDULE 40 RIGID PVC CONDUIT SHALL BE USED FOR CONCRETE ENCASED DUCTBANK UNDER ROADWAYS, PARKING LOTS, OR OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC AND ALL MEDIUM VOLTAGE WORK.

C. MAXIMUM NUMBER OF BENDS IN ONE CONDUIT RUN BETWEEN MANHOLES SHALL BE NO MORE THAN 270 DEGREES.

D. THE ENCLOSURES OF ALL SWITCHGEAR, TRANSFORMERS, UNIT SUBSTATIONS, MOTOR CONTROLS AND PANELBOARDS SHALL BE GROUNDED BY A SEPARATE GROUNDING CONDUCTOR TO THE GROUND SYSTEM.

E. THE RESISTANCE OF THE COMPLETED GROUND SYSTEM FOR STANDARD INSTALLATIONS SHALL NOT EXCEED 5 OHMS. IF ANY SPECIAL EQUIPMENT BEING INSTALLED REQUIRES A LOWER GROUND SYSTEM RESISTANCE, THAT EQUIPMENT MANUFACTURER'S MAXIMUM GROUND RESISTANCE SHALL APPLY.

F. FOR SOLIDLY GROUNDED ALTERNATE SOURCE OF EMERGENCY POWER SYSTEMS (GENERATOR) HAVING LINE TO LINE-TO GROUND VOLTAGE LARGER THAN 150V (FOR EXAMPLE 480V/277Y) AND RATED 1000A OR MORE, NO GROUND FAULT PROTECTION WITH AUTOMATIC DISCONNECTING MEANS IS REQUIRED; ONLY GROUND-FAULT INDICATION (ALARMS) SHALL BE PROVIDED IN ACCORDANCE WITH NEC/CEC, ARTICLE 700.31 AND 700.69D).

G. PROVIDE STATIONARY DIESEL-FUELED POWER SUPPLY (EPS) WITH ATS, LOAD TESTING MEANS, AND ASSOCIATED ACCESSORIES IN COMPLIANCE WITH NFPA 110, LEVEL 1, EMERGENCY POWER SUPPLY SYSTEM (EPS) REQUIREMENTS.

H. PROVIDE AN NFPA 110 COMPLIANT CONTROL PANEL MOUNTED ON THE EMERGENCY POWER SYSTEMS (EPS). NO MORE THAN 78 INCHES ABOVE THE FINISHED FLOOR TO THE TOP OF THE PANEL, INCLUDING THE CONCRETE HOUSEKEEPING PAD AND VIBRATION ISOLATORS.

I. CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ONLY. CONDUIT SHALL BE INSTALLED AS REQUIRED TO AVOID INTERFERENCE WITH EXISTING UTILITIES AND STRUCTURES. COORDINATE EXACT LOCATIONS OF ANY SITE WORK WITH CIVIL DRAWINGS.

J. ALL JUNCTION BOXES, PULL BOXES, ETC. ARE NOT SHOWN ON THIS DRAWING, BUT SHALL BE PROVIDED WHERE NECESSARY IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE NEC/CEC.

K. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION RELATED TO CIVIL WORKS.

L. PROVIDE POST BARRIERS TO ELECTRICAL EQUIPMENT TO PROVIDE PHYSICAL PROTECTION.

M. EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING OF CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.

N. LABEL ALL WIRING CIRCUIT NUMBERS INSIDE ENCLOSURES OR HANDHOLES. PROVIDE CIRCUIT I.D. TAGS INSIDE HANDHOLES RATED FOR WET LOCATIONS.

O. EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS & SITE-SURVEY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN PRIOR TO INSTALLATION OF ANY WORK.

(#) CONSTRUCTION KEYNOTES

1	PROVIDE NEW 225A, 120/240V, 1PH, 3W, DISTRIBUTION BOARD. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2	EXISTING IDF CABINET. EXTEND LV/TELECOM WIRING AND CONDUIT TO NEW PORTABLE LOCATION P.O.C. PREVIOUSLY IDENTIFIED DURING REMOVAL.
3	EXISTING FACP, EXTEND WIRING AND CONDUIT TO NEW PORTABLE LOCATION P.O.C. PREVIOUSLY IDENTIFIED DURING REMOVAL.
4	PROVIDE NEW 75KVA TRANSFORMER 4160/120-240V 1PH. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
5	PROVIDE NEW 1-1/4" U.G. CONDUIT (3)#1 & 1#2 GND. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6	EXISTING 120/240V, 100KVA TRANSFORMER T1.
7	EXISTING 4" U.G. CONDUIT WITH (3)#4/0 & 1#4/0 FEEDING EXISTING 100KVA, 120/240V, TRANSFORMER T1 INSIDE BUILDING F TRANSFORMER ROOM F5.

ELECTRICAL SITE PLAN

SCALE: 1" = 60'-0"

1 / E2.01

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811 or 800-422-4133

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633 W. 5TH STREET, THIRD FLOOR, LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

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Δ	DESCRIPTION	DATE
	SCHEMATIC DESIGN	01/23/2026

CONSULTANT:

Budlong

An MBE|SBE|DBE|LSBE Firm
Glendale|Downtown LA|Fremont|Camarillo
WWW.BUDLONG.COM
Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

ELECTRICAL SITE PLAN

SCHEMATIC DESIGN

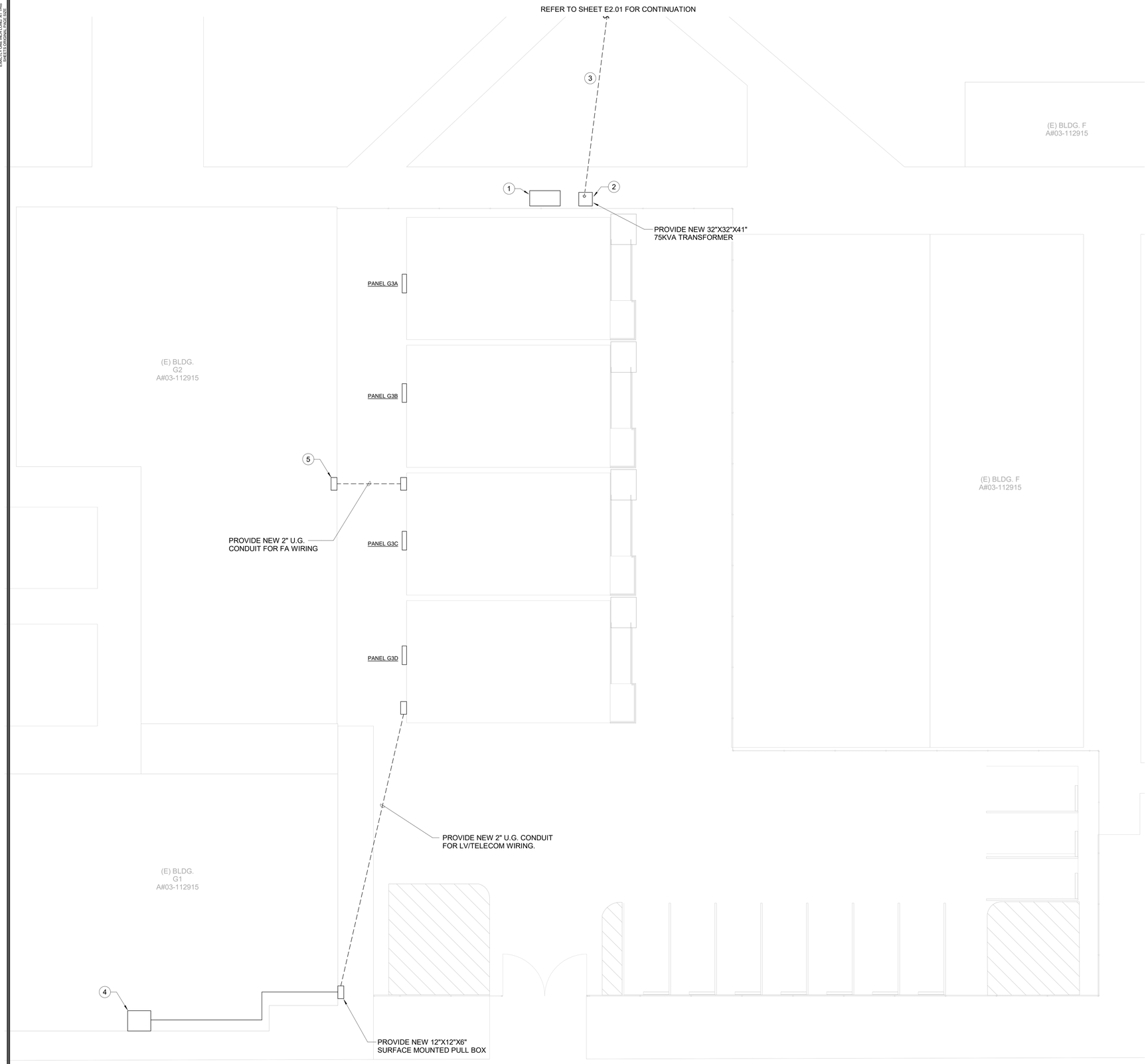
DATE: **2026.01.23** | CLIENT PROJ NO: **3361-008-101**

SHEET:

E2.01

Autodesk Docs://3361008101/EMUSD Arroyo Relo Existing Portable Pkg/R24/EFABLV24_24-335-Arroyo HS - Relocation of Portables.rvt
21-01-2026 20:14:30

PLEASE RECYCLE



ELECTRICAL PORTABLE FLOOR PLAN
SCALE: 1/8" = 1'-0"

1/8"=1'-0" 0 4' 8' 16' 24' BUDLONG

NORTH

GENERAL NOTES

A. UNDERGROUND PULL BOX SHALL BE SIZED IN ACCORDANCE WITH CEC/NEC 314.28. USE PRECAST CONCRETE, AASHTO H-20 TYPE PULL BOX FOR DELIBERATE VEHICULAR TRAFFIC APPLICATIONS (E.G., WITHIN STREETS, HIGHWAYS AND PAVED SHOULDERS ALONG HIGHWAYS).

B. UNDERGROUND PULL BOX SHALL BE SIZED IN ACCORDANCE WITH CEC/NEC 314.28. USE PRECAST CONCRETE, LIGHT DUTY TYPE PULL BOX FOR PEDESTRIAN TRAFFIC ONLY (E.G., GRASSY AREAS IN RESIDENTIAL PROPERTIES THAT ARE LOCATED AWAY FROM VEHICULAR TRAFFIC).

C. SCHEDULE 40 RIGID PVC CONDUIT SHALL BE USED FOR CONCRETE ENCASED DUCTBANK UNDER ROADWAYS, PARKING LOTS, OR OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC AND ALL MEDIUM VOLTAGE WORK.

D. MAXIMUM NUMBER OF BENDS IN ONE CONDUIT RUN BETWEEN MANHOLES SHALL BE NO MORE THAN 270 DEGREES.

E. THE ENCLOSURES OF ALL SWITCHGEAR, TRANSFORMERS, UNIT SUBSTATIONS, MOTOR CONTROL S AND PANELBOARDS SHALL BE GROUNDED BY A SEPARATE GROUNDING CONDUCTOR TO THE GROUND SYSTEM.

F. THE RESISTANCE OF THE COMPLETED GROUND SYSTEM FOR STANDARD INSTALLATIONS SHALL NOT EXCEED 5 OHMS. IF ANY SPECIAL EQUIPMENT BEING INSTALLED REQUIRES A LOWER GROUND SYSTEM RESISTANCE, THAT EQUIPMENT MANUFACTURER'S MAXIMUM GROUND RESISTANCE SHALL APPLY.

G. FOR SOLIDLY GROUNDED ALTERNATE SOURCE OF EMERGENCY POWER SYSTEMS (GENERATOR) HAVING LINE TO LINE-TO GROUND VOLTAGE LARGER THAN 150V (FOR EXAMPLE 480V/277Y) AND RATED 1000A OR MORE, NO GROUND FAULT PROTECTION WITH AUTOMATIC DISCONNECTING MEANS IS REQUIRED; ONLY GROUND-FAULT INDICATION (ALARMS) SHALL BE PROVIDED IN ACCORDANCE WITH NEC/CEC, ARTICLE 700.31 AND 700.69D).

H. PROVIDE STATIONARY DIESEL-FUELED POWER SUPPLY (EPS) WITH ATS, LOAD TESTING MEANS, AND ASSOCIATED ACCESSORIES IN COMPLIANCE WITH NFPA 110, LEVEL 1, EMERGENCY POWER SUPPLY SYSTEM (EPS) REQUIREMENTS.

I. PROVIDE AN NFPA 110 COMPLIANT CONTROL PANEL MOUNTED ON THE EMERGENCY POWER SYSTEMS (EPS). NO MORE THAN 78 INCHES ABOVE THE FINISHED FLOOR TO THE TOP OF THE PANEL, INCLUDING THE CONCRETE HOUSEKEEPING PAD AND VIBRATION ISOLATORS.

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L. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION RELATED TO CIVIL WORKS.

M. PROVIDE POST BARRIERS TO ELECTRICAL EQUIPMENT TO PROVIDE PHYSICAL PROTECTION.

CONSTRUCTION KEYNOTES

1	PROVIDE NEW 225A, 120/240, 1PH, 3W, DISTRIBUTION BOARD. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2	PROVIDE NEW 75KVA TRANSFORMER 4160/120-240V 1PH. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
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Budlong
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Glendale|Downtown LA|Fremont|Camarillo
WWW.BUDLONG.COM
Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

ELECTRICAL PORTABLE FLOOR PLAN

SCHEMATIC DESIGN

DATE: **2026.01.23** CLIENT PROJ NO: **3361-008-101**

SHEET:

E2.11

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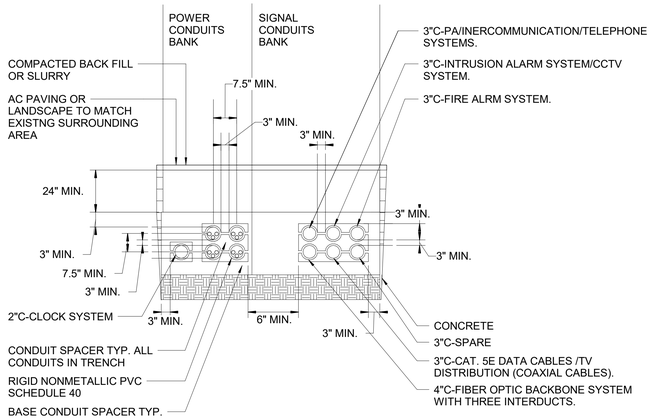
Autodesk Docs://3361008101 EMUSD Arroyo Relo Existing Portable Pkg4 R24/EFA&LV24_24-335-Arroyo HS - Relocation of Portables.rvt
21-01-2026 20:14:30

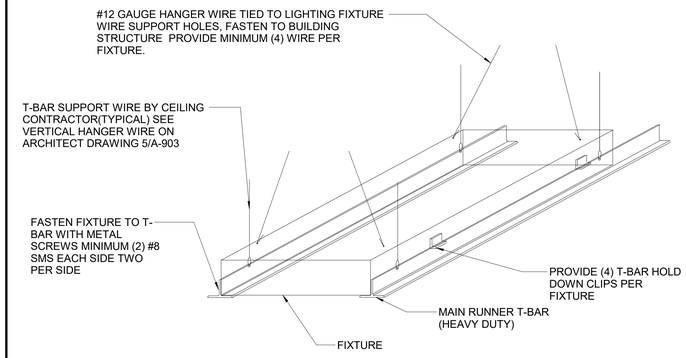
THE LINE SHOWN ABOVE IS 1" WHEN PLOTTED AT FULL SIZE. IF NOT, ADJUST SCALE ACCORDINGLY



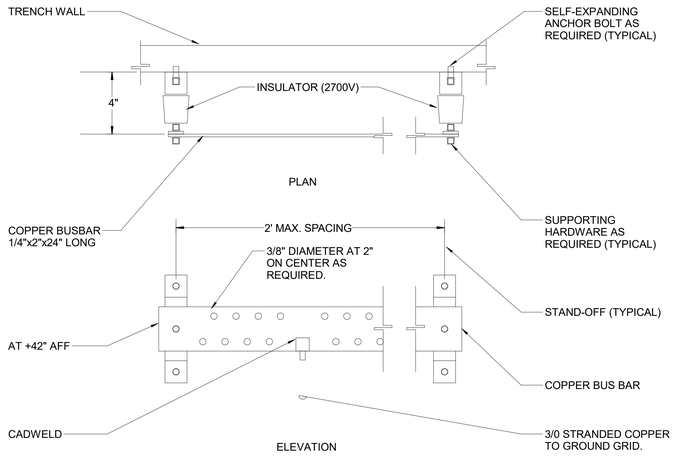
NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. LOCATE DUCT BANK 12" AWAY FROM OTHER UTILITY LINES.
3. DETAILS SHOWS TYPICAL CONDUITS SPACING AND DEPTH ONLY. REFER TO DRAWINGS FOR EXACT QUANTITY AND SIZES OF CONDUITS.

TYPICAL DUCT BANK DIAGRAM | N.T.S. | 9

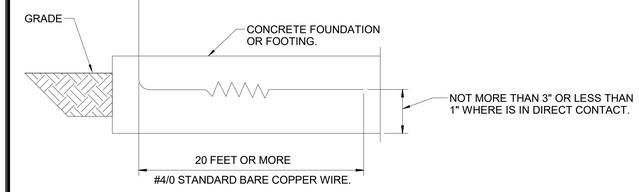


RECESS 2 X 4 LED FIXTURE MOUNTING DETAIL | N.T.S. | 6

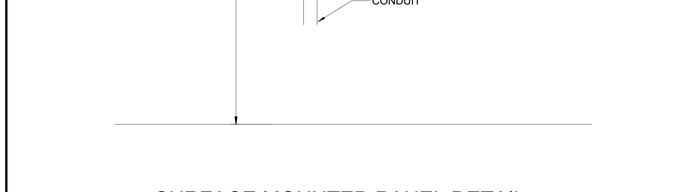


CADWELD MANUFACTURED GROUND BUS OR EQUAL.

GROUND TERMINAL BUS BAR DETAIL | N.T.S. | 3

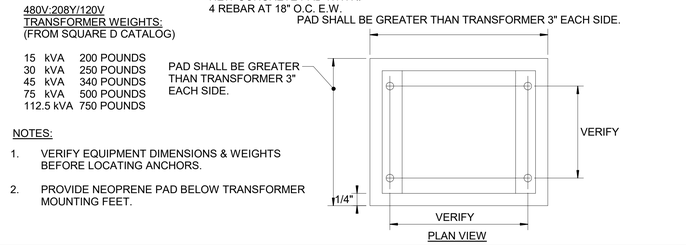


UFER GROUND DIAGRAM | N.T.S. | 8



SURFACE MOUNTED PANEL DETAIL

SURFACE MOUNTED PANEL DETAIL | N.T.S. | 5



480V-208Y/120V
TRANSFORMER WEIGHTS:
(FROM SQUARE D CATALOG)

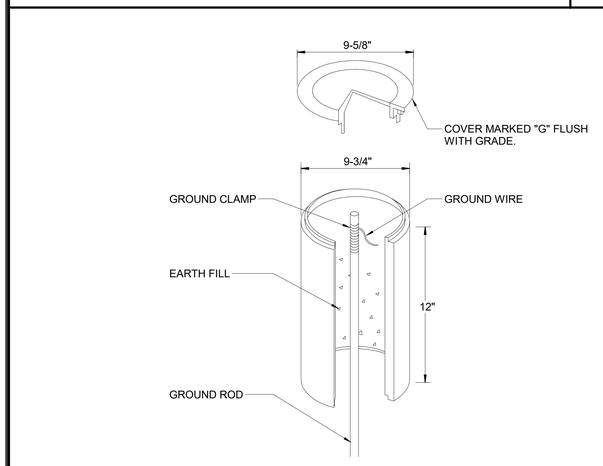
15	kVA	200 POUNDS
30	kVA	250 POUNDS
45	kVA	340 POUNDS
75	kVA	500 POUNDS
112.5	kVA	750 POUNDS

PAD SHALL BE GREATER THAN TRANSFORMER 3" EACH SIDE.

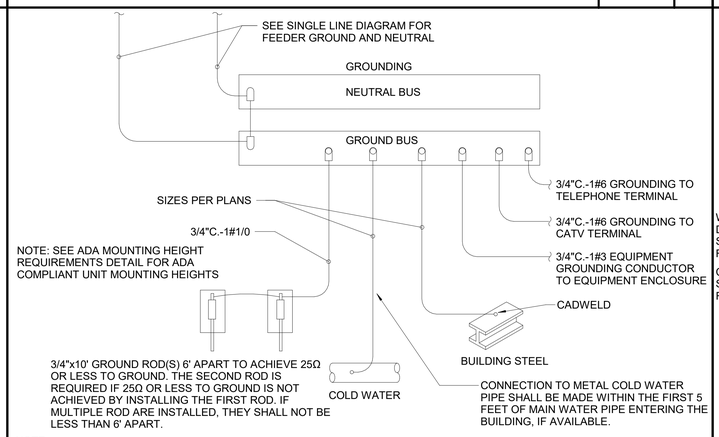
NOTES:

1. VERIFY EQUIPMENT DIMENSIONS & WEIGHTS BEFORE LOCATING ANCHORS.
2. PROVIDE NEOPRENE PAD BELOW TRANSFORMER MOUNTING FEET.

TRANSFORMER MOUNTING DETAIL | N.T.S. | 2



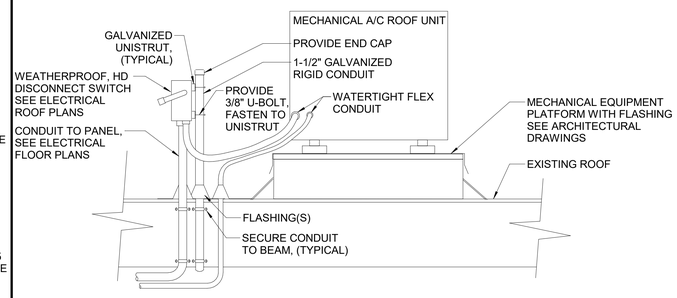
GROUND BOX DETAIL



NOTE:

1. ALL GROUNDING ELECTRODE AS SHOWN THAT PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDED SYSTEM, WHERE NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN 250.52(A)(4) THROUGH 250.52(A)(8) SHALL BE INSTALLED AND USED PER CEC 250.50, GROUNDING ELECTRODE CONDUCTOR SIZES PER CEC 250.66
2. BONDING POINTS SHALL BE ACESSIBLE AS REQUIRED PER CEC 250.104
3. COORDINATE LOCATION OF GROUND RODS IN PLANTING/DIRT AREAS

SERVICE GROUNDING DETAIL | N.T.S. | 4



DISCONNECT SWITCH MOUNTING AT ROOF MECH. UNIT | N.T.S. | 1

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Δ	DESCRIPTION	DATE
	SCHEMATIC DESIGN	01/23/2026

CONSULTANT:
Budlong
An MBE|SBE|DBE|LSBE Firm
Glendale|Downtown LA|Fremont|Camarillo
WWW.BUDLONG.COM
Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - RELOCATING EXISTING PORTABLE

SHEET NAME:

ELECTRICAL DETAILS

SCHEMATIC DESIGN

DATE: **2026.01.23** | CLIENT PROJ NO: **3361-008-101**

SHEET:

E5.01

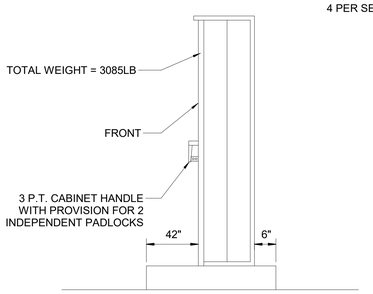
Autodesk Docs://3361008102 EMUSD Arroyo Relo Existing Portable Pkg4 R24/EFA&LV24_24-335-Arroyo HS - Relocation of Portables.rvt
21-01-2026 20:14:31

PLEASE RECYCLE

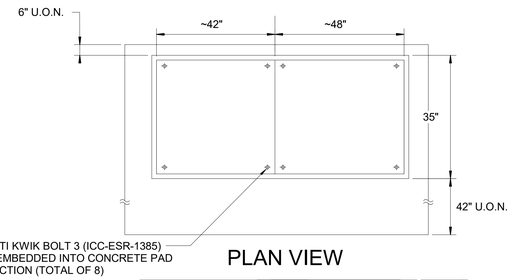
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON THIS SHEET'S ORIGINAL SIZE

GENERAL NOTES

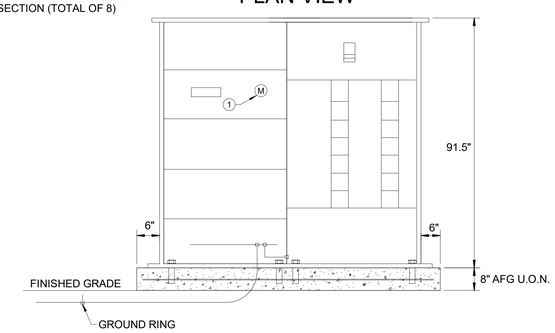
1. ELEVATION DETAILS ARE FOR REFERENCE ONLY. CONSULT WITH SWITCHBOARD MANUFACTURER FOR EXACT SIZE AND DIMENSIONS.
2. DISTRIBUTION EQUIPMENT, SWITCHBOARD AND PANELBOARDS SHOWN ARE DESIGNED ON SQUARE "D" EQUIPMENT, USE OF ANY EQUIPMENT REQUIRING DIMENSIONS OTHER THAN SHOWN ON PLANS, SHALL BE APPROVED BY THE ELECTRICAL ENGINEER.
3. ALL EQUIPMENT/SWITCHBOARDS SHALL BE SECURED AND BOLTED DOWN TO CONCRETE HOUSE KEEPING PAD WITH ANCHOR BOLTS AS SHOWN IN DETAIL "A" SHEET EXXX.
4. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.
5. ALL NEW PANELBOARDS SHALL BE SERVICE RATED AND CONTAIN FULL CAPACITY NEUTRAL AND GROUND BUSES.



SIDE VIEW



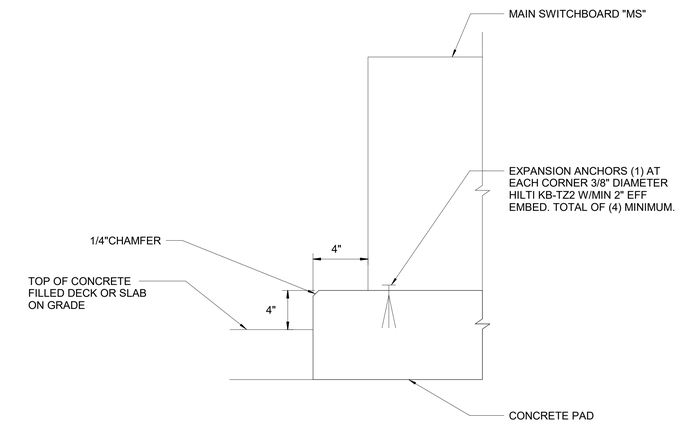
PLAN VIEW



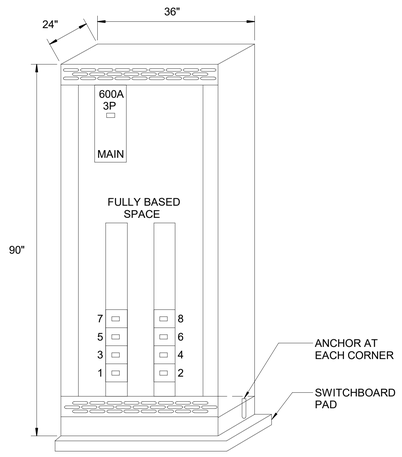
NOTE:

(1) THE SWITCHBOARD SHALL BE CONFIGURED SUCH THAT THE METER SECTION IS NEAREST UTILITY TRANSFORMER FEEDER, SEE SITE PLAN FOR CLARIFICATION.

TYPICAL SWITCHBOARD | N.T.S. | 3



SWITCHBOARD CONCRETE PAD DETAIL | N.T.S. | 2



DISTRIBUTION SWITCHBOARD "DSA" ELEVATION | N.T.S. | 1

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Glendale|Downtown LA|Fremont|Camarillo
W W W . B U D L O N G . C O M
Job No. 24-335

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SHEET NAME:

ELECTRICAL DETAILS

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DATE: **2026.01.23** | CLIENT PROJ NO: **3361-008-101**

SHEET:

E5.02

Autodesk Docs://3361008102 EMUSD Arroyo Relo Existing Portable Pkg4 R24/EFAALV24_24-335-Arroyo HS - Relocation of Portables.rvt
21-01-2026 20:14:31

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EL MONTE UNION HIGH SCHOOL DISTRICT

INSTALLATION OF PORTABLE CLASSROOMS
AT ARROYO HIGH SCHOOL AND SOUTH EL MONTE HIGH SCHOOL

EL MONTE, CALIFORNIA

GENERAL NOTES

1. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE PROSECUTION OF THIS WORK.

3. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF DESIGN GROUP, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF DESIGN GROUP, INC.

4. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, DESIGN GROUP, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS DESIGN GROUP, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

5. EACH BIDDER SHALL POSSESS AT THE TIME OF BID A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.

6. FIRE SAFETY DURING CONSTRUCTION

A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, ARTICLE 9 AND ARTICLE 87.

B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH ARTICLE 9, SECTION 902.

C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH ARTICLE 9,SECTION 903.

D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES.

E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF ARTICLE 87, SECTIONS 8704 AND 8705.

F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH ARTICLE 87, SECTION 8706 AND APPLICABLE PROVISIONS OF SECTIONS 8704 AND 8705.

G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.

7. PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.

8. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):

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

ENVELOPE MANDATORY MEASURES:

A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.

B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 707 AND 2602.

C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.

D. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).

E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 116(a)1.

F. MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (NFRC) NATIONAL FENESTRATION RATING COUNCIL'S INTERIM U-VALUE RATING PROCEDURE.

G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).

9. DEFERRED APPROVAL ITEMS:

INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE OF DESIGN AND SIGNED BY A CALIFORNIA REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT.

DEFERRED APPROVAL ITEMS FOR THIS PROJECT ARE THE FOLLOWING ITEMS:

A. NONE

10. PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS:

A. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE CATEGORY AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.

B. APPLY PROOF TEST LOADS TO WEDGE & SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.

C. FOR SLEEVE INTERNALLY THREADED CATEGORIES, VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASEPLATE OR OTHER FIXTURES. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE FIXTURE(S) PRIOR TO TESTING.

D. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).

E. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.

F. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

1. HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE. DROP IN ANCHORS ARE ONLY TO BE TESTED WITH THIS METHOD.

2. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:

WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT. ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8 INCH SLEEVE ANCHOR ONLY.

G. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.

H. ALL ANCHOR BOLTS OF THE EXPANSION TYPE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT ALLOWED BY THE TYPE OF SUBSTRATE AND DIAMETER OF BOLT LISTED BELOW UNDER TEST VALUES TABLE) PROOF TESTED IN TENSION TO TWICE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED. [TESTING SHALL BE PERFORMED IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1923A.3.5.]

I. ALL BOLTS MUST HAVE ICC/ES APPROVAL.

J. ALL ANCHOR BOLTS OF THE EXPANSION TYPE INSTALLED IN CONCRETE SHALL BE ONE OF THE FOLLOWING:

1. RAWLPLUG CO., INC.-RAWL BOLT-SLEEVE ANCHOR-ICC/ES NO. 5225.
2. ITW RAMSET/REDHEAD-WEDGE ANCHOR-ICC/ES NO. 1372
3. HILTI, INC.-KWIK BOLT III-WEDGE ANCHOR-ICC/ES NO. 1385

MINIMUM TEST VALUES

NORMALWEIGHT OR LIGHTWEIGHT CONCRETE

ANCHOR	WEDGE			SLEEVE		
DIA. (IN)	TENSION LOAD (LBS)	TORQUE (FT-LBS)	EMBEDMENT (IN)	TENSION LOAD (LBS)	TORQUE (FT-LBS)	EMBEDMENT (IN)
1/4	1050	8	1-15/16	540	4	1-3/4
3/8	1740	25	3	1680	35	2-1/2
1/2	2330	55	4-1/8	2410	60	3-1/2
5/8	3290	90	5-1/8	2590	100	4
3/4	5490	175	6-5/8	2900	120	4-1/2

K. ALL ANCHOR BOLTS OF THE EXPANSION TYPE INSTALLED IN GROUT FILLED MASONRY SHALL BE ONE OF THE FOLLOWING:

1. HILTI, INC.-KWIK BOLT III-WEDGE ANCHOR-ICC/ES NO. 1385
2. SIMPSON-WEDGE ALL-WEDGE ANCHOR-ICC/ES NO. 3631

MINIMUM TEST VALUES

GROUT FILLED CONCRETE MASONRY

ANCHOR	WEDGE		
DIA. (IN)	TENSION LOAD (LBS)	TORQUE (FT-LBS)	EMBEDMENT (IN)
1/4	1080	4	2
3/8	1564	20	2-1/2
1/2	1810	40	3-1/2
5/8	2484	85	4
3/4	3290	150	4-3/8

11. NOT USED

12. INSPECTOR OF RECORD REQUIREMENTS

A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTORS DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL BE AS STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.

B. INSPECTOR SHALL BE CERTIFIED AS A CLASS 4 INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT. THE INSPECTOR, EMPLOYED BY THE OWNER, SHALL PROVIDE CONTINUOUS INSPECTION. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).

13. ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) 2007 EDITION.

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

15. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIROMENTAL HEALTH

16. DRINKING WATER SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS.

17. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ADDITION, ALTERATION OR RECONSTRUCTION IS IN COMPLIANCE WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT IDENTIFIED BY THE CONTRACT DOCUMENTS WHEREIN THE FINAL WORK WOULD NOT COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT OF THE CONDITION IN WRITING. NECESSARY INFORMATION REQUIRED TO CORRECT THE CONDITIONS ENCOUNTERED WILL BE ISSUED BY THE ARCHITECT. A CHANGE ORDER MAY BE ISSUED TO ADJUST THE CONTRACT SUM OR TIME COMMENSURATE WITH THE AMOUNT OF ADDITIONAL WORK REQUIRED IF ANY. THE CHANGE ORDER SHALL BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK REQUIRED BY THE CHANGE ORDER.

18. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

19. SITE INSPECTOR TO VERIFY AND WITNESS GROUNDING TESTS.

20. MODULAR BUILDINGS SHALL HAVE TAGS TO IDENTIFY THE DSA APPLICATION NUMBER AND THE BUILDING SERIAL NUMBER WHEN DELIVERED TO THE SITE. THE PLAN AFFIDAVIT IS ALSO REQUIRED.

21. ALLOWABLE SOIL BEARING PRESSURE SHALL BE 1000 PSF MIN.

APPLICABLE CODES

2007 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R., PART 1

2007 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R., PART 2
(2006 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)

2007 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R., PART 3
(2005 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

2007 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R., PART 4
(2006 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

2007 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R., PART 5
(2006 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

2007 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R., PART 6

2007 CALIFORNIA ELEVATOR CODE, TITLE 24 C.C.R., PART 7

2007 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R., PART 8

2007 CALIFORNIA FIRE CODE, TITLE 24 C.C.R., PART 9
(2006 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

2007 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R., PART 10
(2006 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)

2007 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R., PART 12

2007 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2002 EDITION
NFPA 14	STANDPIPE SYSTEMS	2003 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2002 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2002 EDITION
NFPA 20	STATIONARY PUMPS	2003 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS	2002 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2002 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2006 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2004 EDITION

PROJECT TEAM

PROJECT ADDRESS
EL MONTE, CA 91732

OWNER
EL MONTE UNION HIGH SCHOOL DISTRICT
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SAN DIMAS, CA 91773
(909) 305 2332 FAX (909) 305 2180

ARCHITECT
DESIGN GROUP, INC.
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(909) 261 6292 FAX (909) 305 2180

ELECTRICAL ENGINEER
DL ENGINEERING
600 WEST BROADWAY AVENUE SUITE 250
GLENDALE, CA 91203
(818) 265-9720

STATEMENT OF GENERAL CONFORMANCE

THE DRAWINGS LISTED ON THE SHEET A0.2 - INDEX SHEET HAS 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 APPREARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

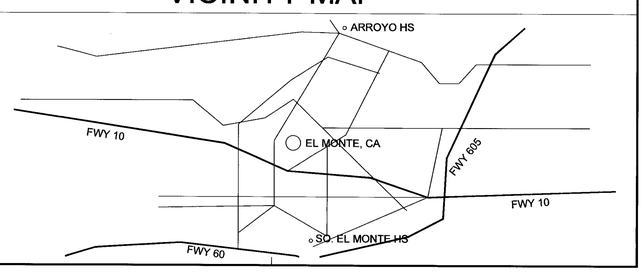
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1 (TITLE 24, PART 1, SECTION 4-317(B))

TESTS AND INSPECTION REQUIREMENTS

	CBC SECTION		CBC SECTION
CONCRETE (CHAPTER 19A)		STEEL (CHAPTER 22A)	
1. MATERIALS		1. MATERIALS	
PORTLAND CEMENT	1704A.4.1; 1916A.1	STRUCTURAL STEEL	2205A.1
CONCRETE AGGREGATES	1704A.4.1; 1903A.3	COLD FORMED STEEL	2209A.1
REINFORCING BARS	1704A.4.1; 1916A.2	IDENTIFICATION	2203A.1
2. QUALITY		2. QUALITY	
PROPORTIONS OF CONCRETE	1905A.2; 1905A.3; 1905A.4	TEST OF STRUCT STEEL/COLD FORMED STEEL	2212A.1
STRENGTH TESTS OF CONRETE	1905A.1.1; 1905A.6	NON-DESTRUCTIVE WELD TEST	1704A.3.1
3. INSPECTION		3. INSPECTION	
MIXING AND PLACING	1905A.8; 1905A.9; 1905A.10	SHOP FABRICATION	1704A.3.2
JOB SITE	1905A.7	WELDING	1704A.3.1
BATCH PLANT	1704A.4.3		
WAIVER OF BATCH PLANT	1704A.4.3		
WOOD (CHAPTER 23)			
1.MATERIALS			
LUMBER AND PLYWOOD	2303.1		

VICINITY MAP



DESIGN GROUP, INC
Architects
2559 LUNES
LA VERNE, CA 91750

ARROYO/SO. EL MONTE HIGH PORTABLES
EL MONTE UNION HIGH SCHOOL DISTRICT
EL MONTE, CALIFORNIA

LICENSED ARCHITECT
MICHAEL P. PAN
PLANT
No. 19291
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 03-112317
AC FLS
DATE MAR 05 2008

NO	DATE	BY	DESCRIPTION
			REVISIONS

DRAWN: RA	CHECKED: MP
DATE: JUNE, 2008	SCALE: AS NOTED
PROJECT NUMBER: 08102	

COVER SHEET

DRAWING NUMBER: T01

DRAWING INDEX

DRAWING REF NO	DESCRIPTION
	TITLE
T0.1	GENERAL NOTES / PROJECT DIRECTORY/ SCOPE OF WORK
A0.2	SHEET INDEX
	ARROYO HIGH SCHOOL PORTABLES
	ARCHITECTURAL
A1.3	ARROYO HIGH SCHOOL LOCAL FIRE MARSHAL APPROVED PLAN
AA-1.3a	SITE PLAN
AA-1.3b	DEMOLITION SITE PLAN
AA-1.3C	IMPROVEMENT SITE PLAN
	ELECTRICAL
EA-1	SYMBOL, NOTES, AND SPECIFICATIONS
EA-2	SITE POWER, DEMO PLANS, SINGLE LINE DIAGRAM AND CALCS
EA-3	SITE SIGNAL, FIRE ALARM, TYPICAL PLANS, RISER DIAGRAM AND CALCS
	SOUTH EL MONTE HIGH SCHOOL PORTABLES
	ARCHITECTURAL
A1.5	SOUTH EL MONTE LOCAL FIRE MARSHAL APPROVED PLAN
AB-1.5a	SITE PLAN
AB-1.5b	DEMOLITION AND IMPROVEMENT SITE PLAN
	ELECTRICAL
ESE-1	SYMBOL, NOTES, AND SPECIFICATIONS
ESE-2	SITE POWER, DEMO PLANS, SINGLE LINE DIAGRAM AND CALCS
ESE-3	SITE SIGNAL, FIRE ALARM, TYPICAL PLANS, RISER DIAGRAM AND CALCS
A2.1	DETAILS
	PORTABLE CLASSROOM - 24' x 40' PC#02-106166
TS-1	TITLE & BUILDING DATA NOTES
N-1	GENERAL NOTES AND SPECIFICATIONS
1	FLOOR PLAN & NOTES
2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS AND NOTES
4	INTERIOR ELEVATIONS AND OPTIONS
S1	WOOD FOUNDATION PLAN & DETAILS
3IF	FOUNDATION DETAILS
3ID	CONCRETE FOUNDATION PLANS
S2	FLOOR FRAMING PLAN AND DETAILS
S2A	BUILDING SECTIONS AND WALL DETAILS
S3	ROOF FRAMING PLAN AND DETAILS
S3A	ROOF SECTIONS AND DETAILS
S4	WALL FRAMING ELEVATIONS AND FRAMING DETAILS
S5R	RAMP PLAN, ELEVATIONS AND DETAILS
M1	MECHANICAL PLAN, DETAILS AND NOTES
M2	MANDATORY MEASURES
E1	ELECTRICAL PLAN AND NOTES

DRAWING REF NO	DESCRIPTION
	PORTABLE CLASSROOM - 24' x 40' PC#04-105455
A0	TITLE SHEET
A1.1	FLOOR PLAN
A2.04	REFLECTED CEILING PLAN
A2.09	REFLECTED CEILING DETAILS
A3.01	ROOF PLAN
A3.03	ROOF DETAILS
A4.01	EXTERIOR ELEVATIONS
A4.03	ARCHITECTURAL DETAILS
A5.02	ARCHITECTURAL DETAILS
A6.02	SCHEDULE SHEET
F1.01	FOUNDATION PLAN
F2.01	FOUNDATION DETAILS
F2.01d	FOUNDATION DETAILS
S1.0	FLOOR FRAMING PLAN
S1.2	FLOOR FRAMING DETAILS
S2.2	ROOF FRAMING DETAILS
S3.0	STRUCTURAL ELEVATIONS AND DETAILS
S4.0	WALL FRAMING
S5.0	WALL FRAMING DETAILS
M1.0	MECHANICAL
E1.03	ELECTRICAL PLAN
R1.02	RAMP/STAIR DETAILS
R5.01	5 FOOT RAMP/LANDING PLAN
F2.02	FOUNDATION PLAN
F2.11	FOUNDATION DETAILS
F3.01	FOUNDATION PLAN
F3.02	FOUNDATION PLAN
F3.03	FOUNDATION PLAN
F3.11	FOUNDATION DETAILS
	PORTABLE CLASSROOM - 24' x 40' PC#03-103419
T	TITLE SHEET
G-1	GENERAL SPECIFICATIONS
G-3	ARCHITECTURAL STANDARD DETAILS
G-4	PLUMBING GENERAL NOTES AND DETAILS
A-1-24	FLOOR PLAN
A-2-24	EXTERIOR ELEVATIONS
A-3-24	ROOF PLAN
A-4-24	INTERIOR ELEVATIONS
A-6-24	REFLECTED CEILING PLAN AND DETAILS
M-1-24	MECHANICAL PLAN
E-1-24	ELECTRICAL PLAN
S-1	STRUCTURAL GENERAL NOTES
S-1A	STRUCTURAL GENERAL NOTES
S-5A	DOUBLE SLOPE COLD ROLLED/TRUSS RIGID FRAME
S-10	FLOOR FRAMING PLAN
S-11	FLOOR CONSTRUCTION DETAILS
S-20	SINGLE OR DOUBLE ROOF PITCH EXTERIOR WALLS
S-30	GENERAL INT AND EXT WALL CONSTRUCTION DETAILS
S-40	GENERAL ROOF CONSTRUCTION LAYOUT
S-52	ROOF CONSTRUCTION DETAILS FOR C CHANNEL W/ PLYWOOD
S-62	ROOF CONSTRUCTION DETAILS FOR COLD ROLLED W/METAL ROOFING
S-70	STEEL TRUSS FOR DOUBLE PITCH ROOF
F-1	WOOD FOUNDATION
R-1	RAMP FRAMING PLAN AND DETAILS

DRAWING REF NO	DESCRIPTION

Statement of General Conformance

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

(Application No. 03-112317 File No. 19-H10)

This drawing, page of specifications/calculations, or the attached list of items shown with ////// has been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

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

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

I certify that this drawing or page (check both boxes):

- [x] is in general conformance and
- [x] has been coordinated

Signature — Date: 3.5.09

Architect or Engineer designated to be in General responsible charge

Print Name: MICHAEL POH

License Number: C-31210 — Expiration Date: 1.31.11

DRAWING INDEX CODE

DRAWING DISCIPLINE PREFIX INDEX

- A. ARCHITECTURAL
- C. CIVIL
- D. INTERIOR DESIGN / FURNITURE
- E. ELECTRICAL
- F. FIRE PROTECTION / SPRINKLER SYSTEM
- G. GRAPHICS
- H. HAZARDOUS MATERIALS
- K. DIETARY / FOOD SERVICE
- L. LANDSCAPING
- M. MECHANICAL
- P. PLUMBING
- S. STRUCTURAL
- T. TELECOMMUNICATIONS

DRAWING GROUP PREFIX INDEX

- 0. GENERAL INFORMATION
- 1. SITE PLANS
- 2. FLOOR PLANS
- 3. REFLECTED CEILING PLANS
- 4. ROOF PLANS
- 5. EXTERIOR ELEVATIONS / SECTIONS
- 6. ENLARGED FLOOR PLANS
- 7. INTERIOR ELEVATIONS
- 8. CIRCULATION / STAIRS / ELEVATORS
- 9. 3D REPRESENTATIONS

DRAWING NUMBER CODE

AH2.2

- DRAWING NUMBER
- GROUP PREFIX INDEX
- BUILDING IDENTITY
- DISCIPLINE PREFIX INDEX

DISCIPLINE OR DRAWING GROUPS NOT INDICATED IN DRAWING INDEX ARE NOT APPLICABLE OR ARE INCLUDED IN THE 16 DIVISIONAL GROUPING OF THE DETAIL DRAWINGS. BUILDING IDENTITY DESIGNATIONS MAY OR MAY NOT BE UTILIZED. REFER TO KEY PLANS AND DRAWING INDEX FOR APPLICATION OF BUILDING DESIGNATIONS. THE DISCIPLINE AND DRAWING GROUPS ARE INTEGRAL WITH THE DETAIL DRAWINGS AND ARE NOT COMPLETE IN THEMSELVES. IN CASE OF DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.

DETAIL DRAWING PREFIX INDEX

DIVISION 1	-	GENERAL REQUIREMENTS
DIVISION 2	-	SITE WORK
DIVISION 3	-	CONCRETE
DIVISION 4	-	MASONRY
DIVISION 5	-	METALS
DIVISION 6	-	WOOD AND PLASTICS
DIVISION 7	-	THERMAL AND MOISTURE PROTECTION
DIVISION 8	-	DOORS AND WINDOWS
DIVISION 9	-	FINISHES
DIVISION 10	-	SPECIALTIES
DIVISION 11	-	EQUIPMENT
DIVISION 12	-	FURNISHINGS
DIVISION 13	-	SPECIAL CONSTRUCTION
DIVISION 14	-	CONVEYING SYSTEMS
DIVISION 15	-	MECHANICAL
DIVISION 16	-	ELECTRICAL

DETAIL DRAWING CODE

8.4

- DRAWING NUMBER
- DIVISION PREFIX INDEX

THE DIVISION PREFIX NUMBERS ARE THOSE IDENTIFIED BY THE 16 DIVISION GROUPING SYSTEM OF MASTER FORMAT AS PUBLISHED BY THE CONSTRUCTION SPECIFICATION INSTITUTE (CSI) AND SHALL NOT BE SOLEY REPRESENTATIVE OF REQUIREMENTS FOR ANY ONE DIVISION. THOSE DIVISIONS NOTED AS BEING OMITTED ARE NOT APPLICABLE OR ARE INCLUDED UNDER DISCIPLINE DRAWINGS. IN CASE OF DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.

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EL MONTE UNION HIGH SCHOOL DISTRICT PORTABLES
AT ARROYO HIGH SCHOOL
AND SOUTH EL MONTE HIGH SCHOOL
EL MONTE, CALIFORNIA

LICENSED ARCHITECT — MICHAEL POH — No. C-31210 — Exp. 1/31/09 — STATE OF CALIFORNIA

CONSULTANT

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APPL # 03-112317
AC FLS SS
DATE MAR 05 2009

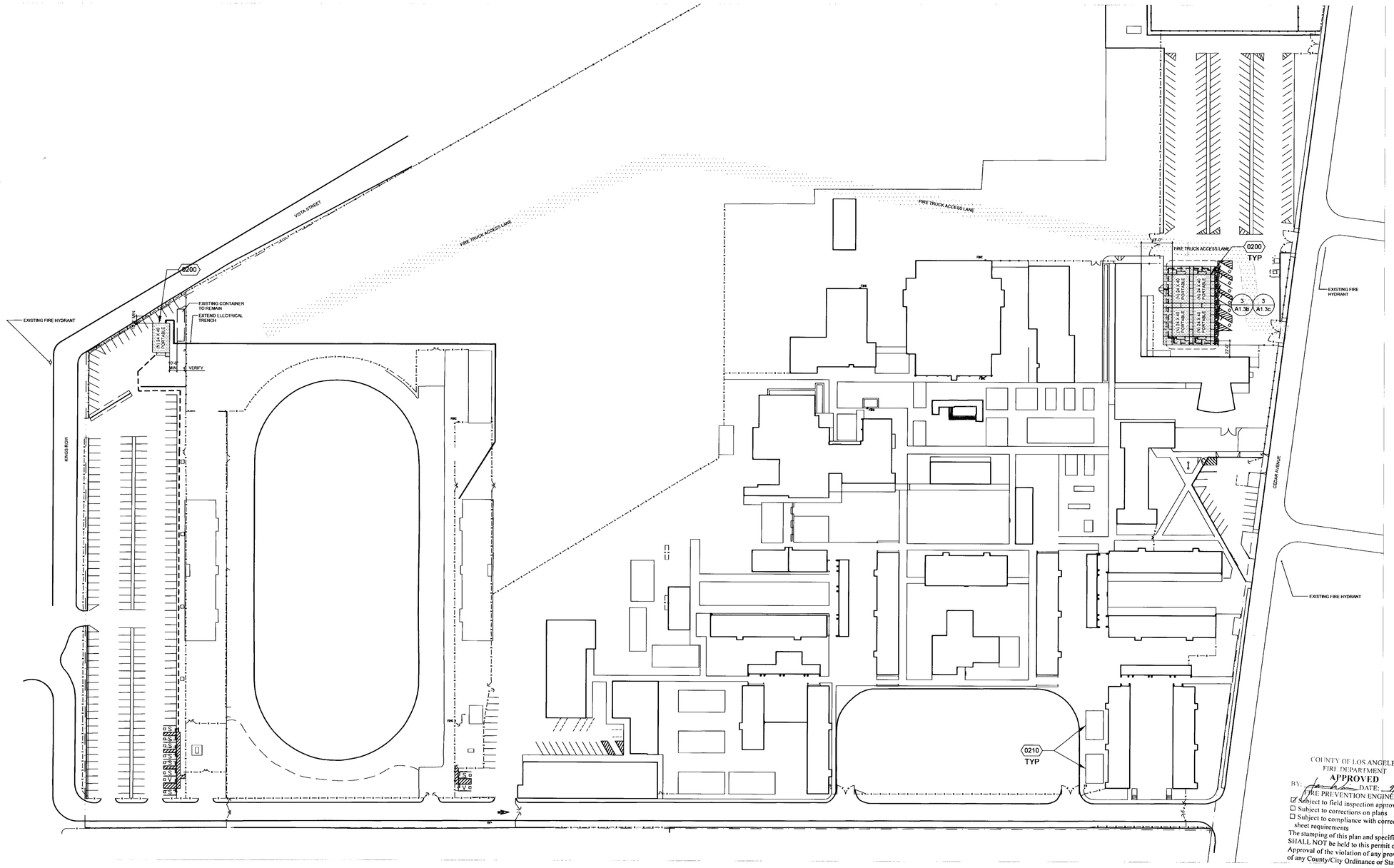
NO	DATE	BY	DESCRIPTION

REVISIONS

DRAWN: RA	CHECKED: MP
DATE: JUNE, 2008	SCALE: AS NOTED
PROJECT NUMBER: 08102	

SHEET INDEX

DRAWING NUMBER: A0.2



OVERALL SITE PLAN

1/60"=1'-0" | 3

REFERENCE NOTE

0200 24' x 40' PORTABLE CLASSROOM, SEE ATTACHED ATTACHED DRAWINGS

0210 EXISTING 24' x 40' PORTABLE CLASSROOM TO BE REMOVE AND RELOCTE. CAP ALL EXISTING ELECTRICAL LINES

CODE ANALYSIS

PORTABLE CLASSROOM BUILDING

(2 - 24' x 40')

BUILDING USAGE: CLASSROOM
CONSTRUCTION TYPE: V-NR / SINGLE STORY
OCCUPANCY GROUP: E-1

BASIC ALLOWABLE AREA: 9100 SF
ACTUAL FLOOR AREA: 960 x 5 = 4800 SF
FLOOR RATIO: 4800 / 9100 = .11

GENERAL NOTES

1. EACH COMMERCIAL COACH WILL BE EQUIPPED WITH AN EVACUATION FIRE ALARM CONSISTING OF AN APPROVED MANUAL PULL-STATION AND AUDIBLE DEVICES (WITH A MINIMUM DECIBLE RATING OF 95 AT 10 FEET) POWERED BY THE COMMERCIAL LESS THAN TWENTY FEET APART HAVE BEEN PROVIDED WITH ADDITIONAL AUDIBLE DEVICES TO ENSURE THE FIRE ALARM CAN BE HEARD WITHIN ADJACENT COMMERCIAL COACHES.
2. THE SCHOOL PRINCIPAL HAS BEEN ADVISED THAT THE CAMPUS FIRE ALARM DRILL AND EVACUATION PROCEDURES ARE TO INCLUDE ALERTING BY SCHOOL STAFF OF OCCUPANTS IN ADJACENT COMMERCIAL COACHES OR BUILDINGS WHEN A FIRE ALARM SOUND AND NOTIFICATION OF THE SCHOOL OFFICE OF THE FIRE ALARM , TO ENSURE EVACUATION AS WELL AS REPORTING OF THE FIRE ALARM TO THE FIRE DEPARTMENT.

SITE LEGEND

PATH OF TRAVEL (P.O.T) AS INDICATED IS A BARRIER FREE ACCESS AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE , EXCEPT THAT THE LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. MAXIMUM SLOPE IN THE DIRECTION IS 5% UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED.

LINE DEPICTS ELECTRICAL TRENCH PER DETAIL 3/2.1. SEE ELECTRICAL FOR THE EXTENT OF TRENCHING.

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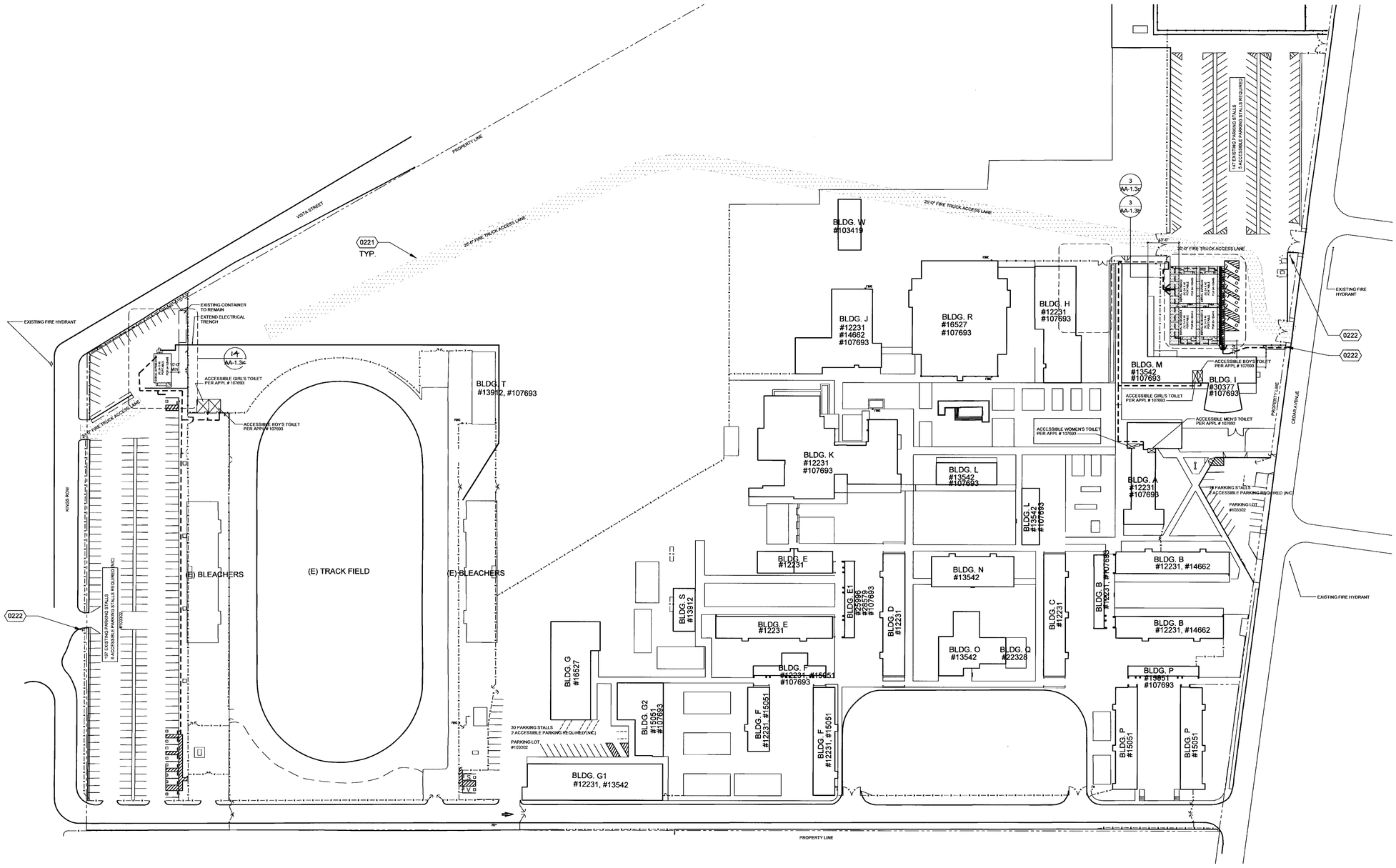
SITE PLAN

DRAWING NUMBER: A1.3



OVERALL SITE PLAN

1/60"=1'-0" | 3

0221 20' WIDE MIN. FIRE TRUCK ACCESS LANE

0222 TOW AWAY SIGN, SEE DETAIL 15/2.1

REFERENCE NOTE

PORTABLE CLASSROOM BUILDING

(5 - 24' x 40')

BUILDING USAGE: CLASSROOM
CONSTRUCTION TYPE: V-B / SINGLE STORY
OCCUPANCY GROUP: E

BASIC ALLOWABLE AREA: 9100 SF
ACTUAL FLOOR AREA: 960 x 5 = 4800 SF
FLOOR RATIO: 4800 / 9100 = .11

NO SPRINKLERS
FULLY AUTOMATIC FIRE ALARM SYSTEM

CODE ANALYSIS

1. EACH COMMERCIAL COACH WILL BE EQUIPPED WITH AN EVACUATION FIRE ALARM CONSISTING OF AN APPROVED MANUAL PULL-STATION AND AUDIBLE DEVICES (WITH A MINIMUM DECIBLE RATING OF 95 AT 10 FEET) POWERED BY THE COMMERCIAL LESS THAN TWENTY FEET APART HAVE BEEN PROVIDED WITH ADDITIONAL AUDIBLE DEVICES TO ENSURE THE FIRE ALARM CAN BE HEARD WITHIN ADJACENT COMMERCIAL COACHES.
2. THE SCHOOL PRINCIPAL HAS BEEN ADVISED THAT THE CAMPUS FIRE ALARM DRILL AND EVACUATION PROCEDURES ARE TO INCLUDE ALERTING BY SCHOOL STAFF OF OCCUPANTS IN ADJACENT COMMERCIAL COACHES OR BUILDINGS WHEN A FIRE ALARM SOUND AND NOTIFICATION OF THE SCHOOL OFFICE OF THE FIRE ALARM , TO ENSURE EVACUATION AS WELL AS REPORTING OF THE FIRE ALARM TO THE FIRE DEPARTMENT.
3. THE FOLLOWING SHALL BE ON THE JOB SITE PRIOR TO INSTALLATION OF THE UNIT(S), SERIAL NUMBER:
   1. IN-PLANT VERIFIED REPORT
   2. LABORATORY VERIFIED REPORT
   3. WELDING VERIFIED REPORT

   THE SITE INSPECTOR SHALL VERIFY THE ABOVE DOCUMENTSARE APPLICABLE TO EACH UNIT PRIOR TO INSTALLATION OF THE UNIT(S). NOTIFY THE ARCHITECT AND DSA/SSS FIELD ENGINEER IF ANY DISCREPANCIES OCCUR.

GENERAL NOTES

PATH OF TRAVEL (P.O.T) AS INDICATED IS A BARRIER FREE ACCESS AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE , EXCEPT THAT THE LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. MAXIMUM SLOPE IN THE DIRECTION IS 5% UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED.

LINE DEPICTS ELECTRICAL TRENCH PER DETAIL 3/2.1. SEE ELECTRICAL FOR THE EXTENT OF TRENCHING.

PROPERTY LINE

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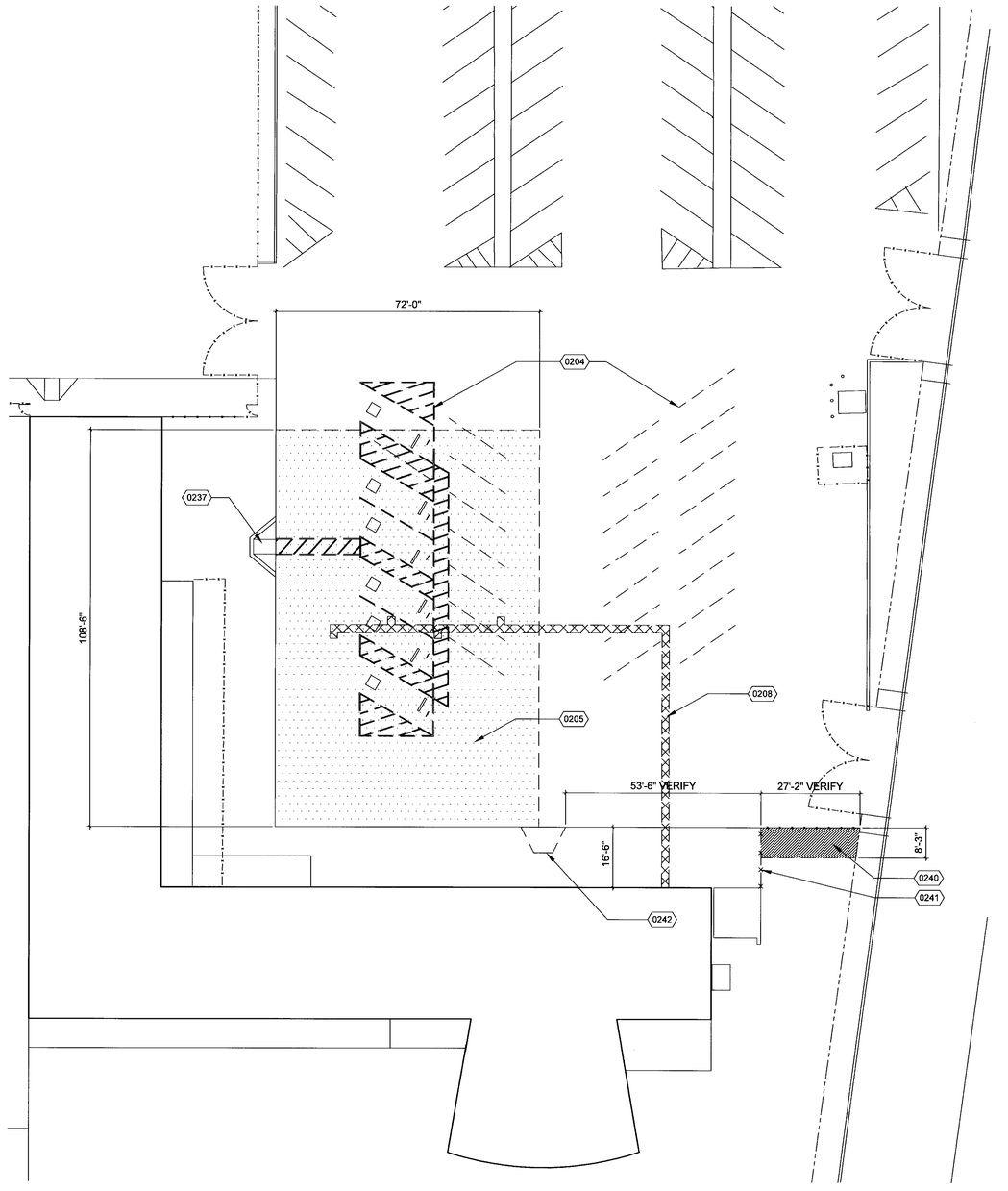
SITE PLAN

DRAWING NUMBER: AA-1.3a



NOT USED

15

DEMOLITION SITE PLAN

1/16"=1'-0"

3

REFERENCE NOTE

- 0204 REMOVE EXISTING PARKING STRIPING , WHEEL STOP, SIGNAGE INCLUDING POLE AND ITS FOOTING
- 0205 HATCH DEPICTS PORTION OF EXISTING ASPHALT CONCRETE TO BE SAWCUT AND REMOVED
- 0208 HATCH DEPICTS ELECTRICAL TRENCH PER DETAIL 3/2.1. SEE ELECTRICAL FOR THE EXTENT OF TRENCHING.
- 0237 REMOVE AND REPLACE CURB RAMP PER DETAIL 8/2.1
- 0240 PORTION OF EXISTING GRASS AREA TO BE REMOVED. PREP TO ACCOMODATE NEW CONCRETE PAVING
- 0241 PORTION OF EXISTING CHAINLINK FENCE TO BE REMOVED AND REPLACED WITH NEW CHAINLINK FENCE AND GATE
- 0242 SAWCUT AND REMOVED PORTION OF EXISTING CONCRETE WALKWAY TO ACCOMODATE NEW CURB RAMP

GENERAL DEMOLITION NOTES

SITE LEGEND

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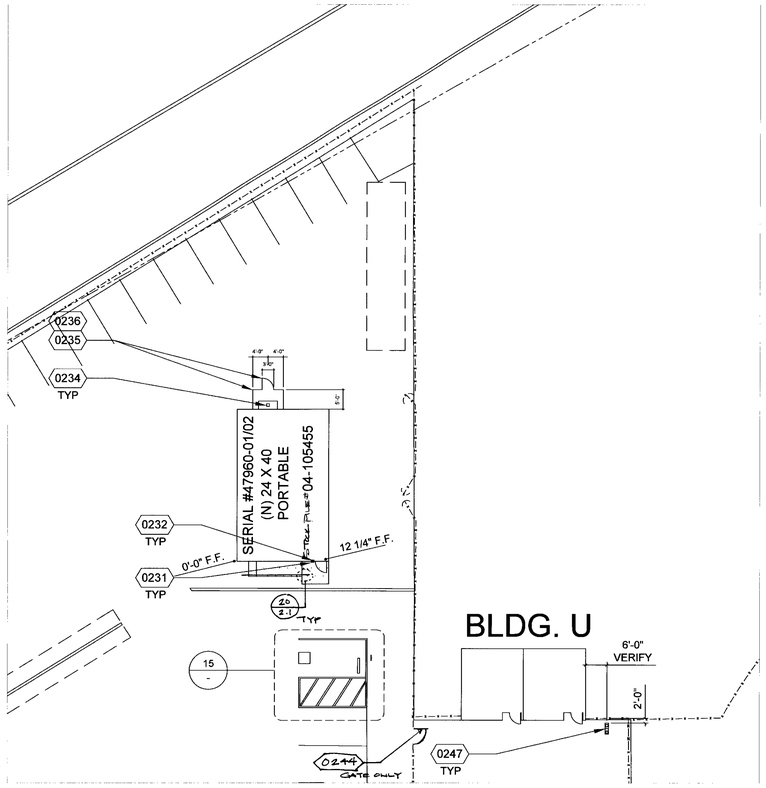
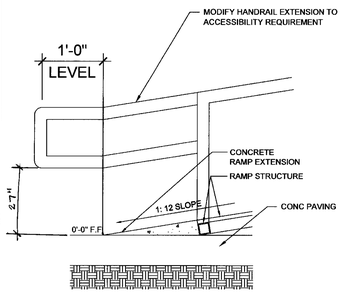
PROJECT NUMBER: 08102	

DEMOLITION SITE PLAN

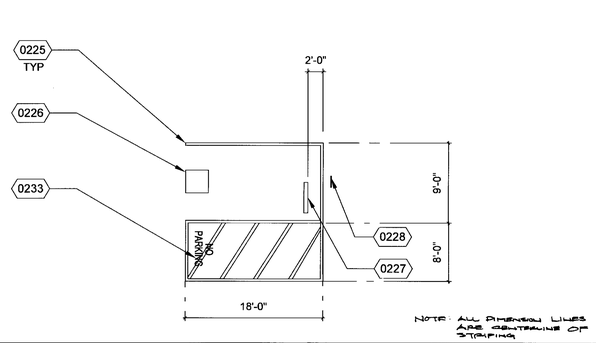
DRAWING NUMBER: AA-1.3b



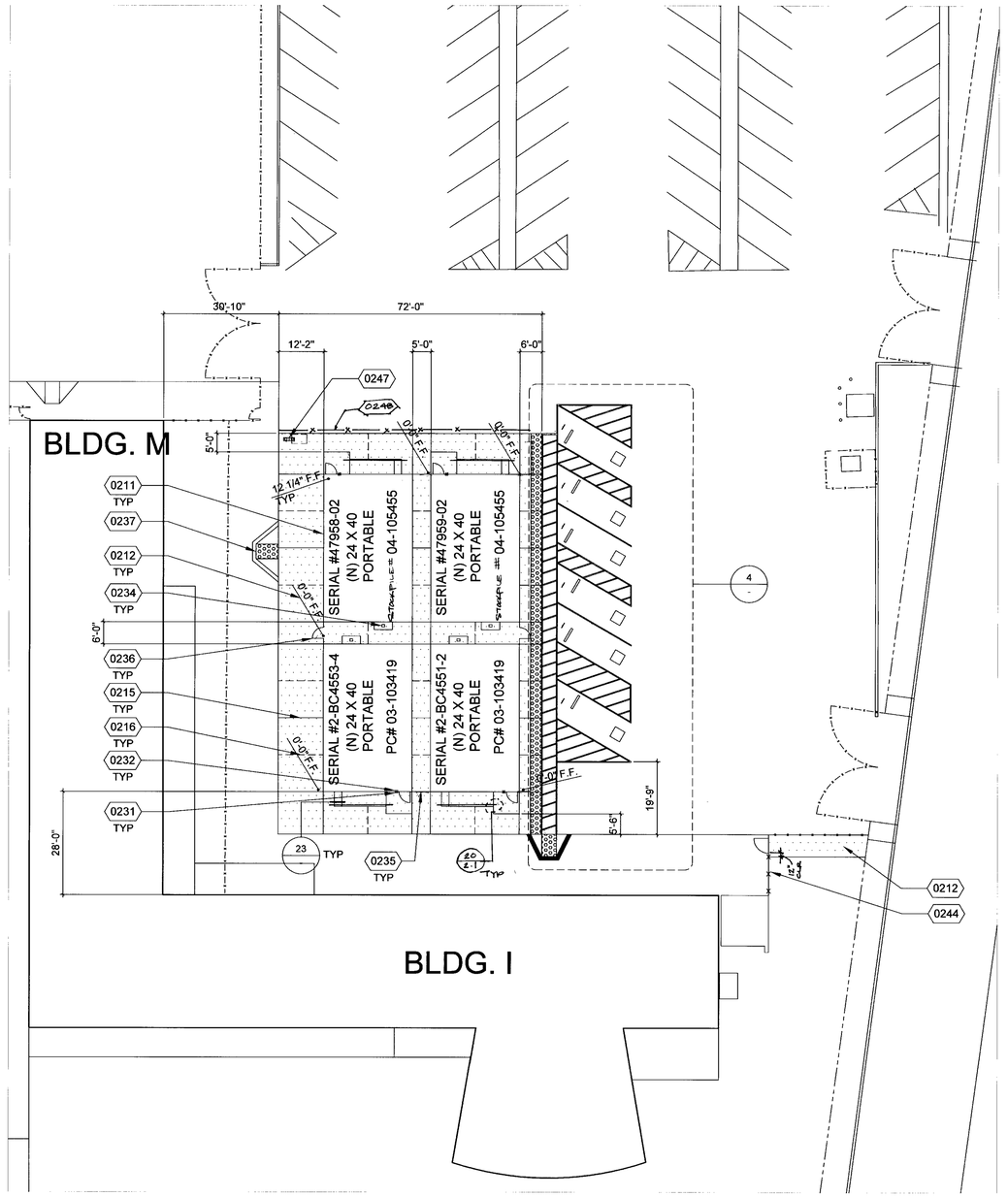
ENLARGED PARTIAL SITE PLAN | 1/16"=1'-0" | 14



RAMP/HANDRAIL DETAIL | 1/8"=1'-0" | 23



ACCESSIBLE PARKING DETAIL | 1/16"=1'-0" | 15



ENLARGED PARTIAL SITE PLAN | 1/16"=1'-0" | 3

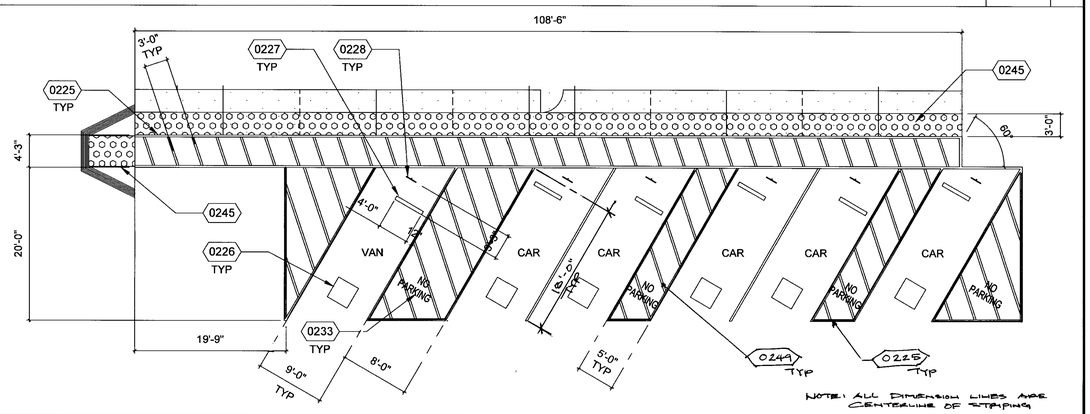
REFERENCE NOTE

- 0211 24' x 40' PORTABLE CLASSROOM
- 0212 HATCH DEPICT NEW 6" THICK (2500 PSI) CONCRETE REINFORCED WITH AT LEAST #3 REBARS SPACED AT 16" O.C. EACH WAY AT MID HEIGHT OF THE SLAB OVER MIN. 95% COMPACTED SOIL. PROVIDE THICKENED EDGE AROUND PERIMETER OF SLAB.
- 0215 EXPANSION JOINT, SEE DETAIL 2/2.1
- 0216 CONTROL JOINT, SEE DETAIL 2/2.1
- 0225 4" PARKING STRIPING - COLOR BLUE
- 0226 INTERNATIONAL SYMBOL OF ACCESSIBILITY, SEE DETAIL 12/2.1
- 0227 4'-0" CONCRETE WHEEL STOP, SEE DETAIL 18/2.1
- 0228 NEW POLE - MOUNTED PARKING SIGN, SEE DETAIL 11/2.1
- 0231 ROOM CONTROL SIGNAGE, SEE DETAIL 14/2.1
- 0232 EXIT SIGN, SEE DETAIL 7/2.1
- 0233 12" HIGH LETTER "NO PARKING" - COLOR: WHITE
- 0234 PROVIDE DRYWELL BELOW MECHANICAL UNIT, REF DETAIL 17/2.1
- 0235 PROVIDE CHAIN LINK SECURITY FENCE, REF DETAIL 1/2.1
- 0236 PROVIDE CHAIN LINK SECURITY GATE, REF DETAIL 5/2.1
- 0237 UPGRADE CURB RAMP PER DETAIL 8/2.1
- 0244 NEW CHAINLINK FENCE AND GATE, SEE DETAIL 1,5/2.1
- 0245 NEW CURB RAMP, SEE DETAIL 8/2.1
- 0246 NEW TRUNCATED DOMES, SEE DETAIL 19/2.1
- 0247 PROVIDE PEDESTAL DRINKING FOUNTAIN - HAWS MODEL# 3300 - HI-LO DRINKING FOUNTAIN. CONNECT DRINKING FOUNTAIN TO THE NEAREST EXISTING WATER AND SEWER LINES
- 0248 6'-0" HIGH CHAINLINK FENCE SEE DETAIL 1/2.1
- 0249 4" PARKING STRIPING - COLOR WHITE @ 36" O.C.

REFERENCE NOTE

GENERAL NOTES

1. FOR NEW CONCRETE SLAB CONDITION, SEE DETAIL 2/2.1
2. DOORS IN MODULAR BUILDINGS SHALL BE OPENED WITH A FORCE NOT GREATER THAN 5 LBS PRESSURE WITH A CLOSING DELAY OF 3 SECONDS.



ACCESSIBLE PARKING DETAIL | 1/8"=1'-0" | 4

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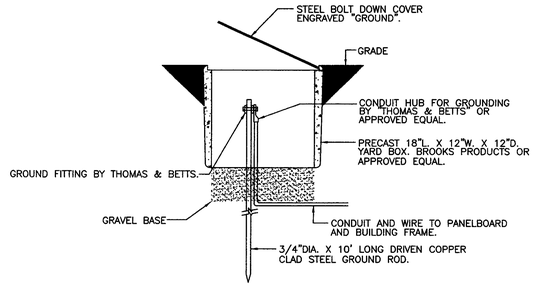
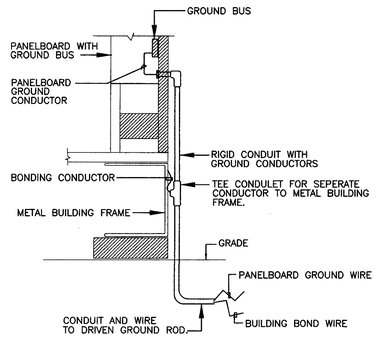
IMPROVEMENT SITE PLAN

DRAWING NUMBER: AA-1.3C



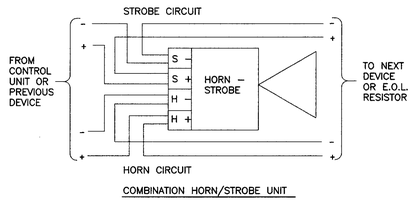
A / E-1 **GROUND WELL DETAIL**
NOT TO SCALE



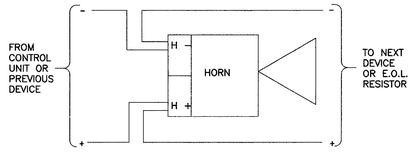
NOTES:

1. PROVIDE SEPERATE GROUND CONDUCTORS FROM PANELBOARD AND METAL BUILDING FRAME TO DRIVEN GROUND ROD.
2. CHECK RESISTANCE TO GROUND IF RESISTANCE EXCEEDS 25 OHMS INSTALL ONE ADDITIONAL GROUND ROD PER CEC 250-84.
3. SITE INSPECTOR SHALL WITNESS AND VERIFY GROUNDING TEST AND SUBMIT A WRITTEN REPORT TO ARCHITECT AND DSA REPRESENTATIVES.

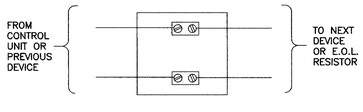
B / E-1 **GROUNDING DETAIL PORTABLE CLASSROOM BUILDING**
NOT TO SCALE



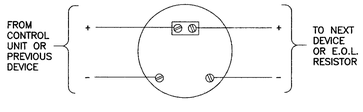
COMBINATION HORN/STROBE UNIT



HORN UNIT

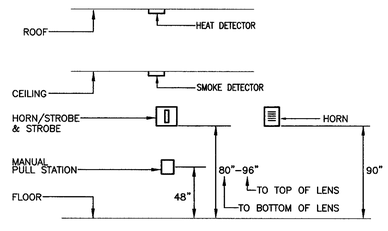


PULL STATION



SMOKE DETECTOR/HEAT DETECTOR

C / E-1 **TYPICAL DEVICE WIRING**
SCALE: NONE



MOUNTING HEIGHT REQUIREMENTS FOR FIRE ALARM DEVICES.

D / E-1 **FA DEVICE ELEVATION**
SCALE: NONE

SEQUENCE OF OPERATION				
	BUILDING POWER FAILURE	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	PULL STATION
ANNUNCIATE AT FIRE CONTROL PANEL (ALARM, SUPERVISION & TROUBLE)	YES	YES	YES	YES
SOUND CONTROL PANEL TROUBLE BUZZER	YES	ON WIRING FAULT	ON WIRING FAULT	ON WIRING FAULT
ACTIVATE AUDIBLE ALARM SIGNALS (UNTIL SILENCE)	NO	YES	YES	YES
ACTIVATE VISUAL ALARM SIGNALS (UNTIL RESET)	NO	YES	YES	YES
CENTRAL MONITORING STATION	YES	YES	YES	YES

ELECTRICAL SPECIFICATIONS

24. GUARANTEE

THIS CONTRACTOR SHALL FURNISH THE OWNER WITH A WRITTEN GUARANTEE FOR THE PERIOD OF ONE YEAR AGAINST FAILURE OF THE ELECTRICAL SYSTEM DUE TO FAULTY MATERIALS OR WORKMANSHIP, GUARANTEE PERIOD SHALL START AT THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ALL SUCH DEFECTS MUST BE REPAIRED OR DEFECTIVE MATERIALS REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

25. CLEAN-UP

UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DEBRIS AND UNUSED MATERIALS, TOOLS AND EQUIPMENT RESULTING FROM THIS WORK.

26. DRAWINGS AND SPECIFICATIONS

ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN SOME RESPECTS. SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY IN THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE ADJUSTED AS DICTATED BY EXISTING CONDITIONS. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.

28. FIRE ALARM SYSTEM

A. FURNISH AND INSTALL NEW FIRE ALARM SYSTEM WIRING AS INDICATED ON THE DRAWINGS PER THE FOLLOWING:

1) THE GENERAL CONTRACTOR UNDER THIS CONTRACT IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUIT, WIRE, BOXES AND EQUIPMENT SHOWN ON THE DRAWINGS (INCLUDING ANY AND ALL RELATED CUTTING AND PATCH WORK REQUIRED).

29. TELEPHONE/INTERCOM AND DATA SYSTEMS

A. FURNISH AND INSTALL NEW TELEPHONE SERVICE AND SYSTEM WIRING AS INDICATED ON THE DRAWINGS PER THE FOLLOWING:

1) THE GENERAL CONTRACTOR UNDER THIS CONTRACT IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUIT, WIRE, BOXES AND EQUIPMENT SHOWN ON THE DRAWINGS (INCLUDING ANY AND ALL RELATED CUTTING AND PATCH WORK REQUIRED).

SCHOOL EQUIPMENT ANCHORAGE

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

THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO ASCE 7 SECTION 13.3.1 AND TABLE 13.6.1. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS. AND HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND DSA's DISTRICT STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.

1. CODE COMPLIANCE

A. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF CALIFORNIA CODE OF REGULATIONS, ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHALL AND ALL OTHER GOVERNING CODES.

2. PERMITS AND FEES

SECURE AND PAY FOR ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK.

3. MATERIAL

A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED BY THE UNDERWRITER'S LABORATORIES, INC. MANUFACTURED IN ACCORDANCE WITH U.L., NEMA, ANSI OR IEEE STANDARDS, AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION.

4. GROUNDING

A. ALL ELECTRICAL EQUIPMENT, DEVICES AND SYSTEMS SHALL BE GROUNDED IN STRICT COMPLIANCE WITH NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES. A GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL NEW BRANCH CIRCUIT WIRING.

5. ALL CONDUCTORS SHALL BE COPPER TYPE "THWN\THHN" RATED AT 600 VOLTS, UNLESS OTHERWISE NOTED.

6. ALL CONDUITS EXPOSED SHALL BE (RGS) RIGID GALVANIZED STEEL.

7. ALL CONDUITS CONCEALED SHALL BE "EMT".

8. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC.

9. FLEXIBLE STEEL CONDUIT SHALL NOT BE USED.

10. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL ELECTRICAL CONDITIONS THAT MAY AFFECT HIS BID AND HE SHALL INCLUDE ALL SUCH COSTS WHEN SUBMITTING HIS BID PROPOSAL. NO EXTRAS WILL BE ALLOWED IF THE CONTRACTOR DID NOT VISIT THE EXISTING JOB SITE AND TAKE INTO CONSIDERATION ALL EXISTING ELECTRICAL CONDITIONS.

11. THE CONTRACTOR SHALL EXERCISE CARE AND PRUDENCE WHEN RUNNING CONDUIT BELOW GRADE. ALL DAMAGES INCURRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. WHERE CONDUITS ARE RUN EXPOSED ON ROOF OR COVERED WALK, USE 2" X 4" REDWOOD BLOCKS AT 5'-0" ON CENTER. USE MASTIC TO SECURE THE BLOCKS TO THE ROOF OR CANOPY, NO SCREWS ALLOWED.

13. ALL CONDUITS BELOW GRADE SHALL BE PVC SCHEDULE 40 ENCASED IN 3" CONCRETE ENVELOPE (30" BELOW FINISH GRADE). CONCRETE SHALL BE 2500 LBS. P.S.I. WITH PEA GRAVEL MIX. PROVIDE APPROPRIATELY SIZED EQUIPMENT GROUND CONDUCTOR.

14. ALL UNDERGROUND PULL BOXES SHALL BE SEALED AND WATERTIGHT. TRAFFIC COVERS SHALL BE IDENTIFIED AS "ELECTRICAL" OR "SIGNAL", DEPENDING ON TYPE OF CIRCUIT. NO SPLICING IS PERMITTED IN UNDERGROUND PULL BOXES.

15. WHERE CUTTING OF EXISTING CONCRETE AND ASPHALT IS NECESSARY, THE CONTRACTOR SHALL PATCH THE CONCRETE OR ASPHALT TO MATCH EXISTING SURFACE.

16. ALL TRENCHING AND BACKFILL AREAS SHALL BE PROTECTED SO AS TO PREVENT PERSONNEL INJURY. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY INJURY. COORDINATE TRENCHING WITH EACH SCHOOL PRINCIPAL.

17. ALL BACKFILL SHALL BE TAMPED TO MATCH THE EXISTING DENSITY. ANY CRACKING OR SAGGING OF ASPHALT OR CONCRETE PAVING WILL BE REPAIRED AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT. DO NOT BACKFILL PRIOR TO INSPECTION OF DUCT BANK.

18. REWORK OF EXISTING SWITCHBOARD

WHERE A NEW CIRCUIT BREAKER OR A SWITCH/FUSE ARE CALLED FOR WITHIN EXISTING SWITCHBOARD, THEY SHALL MATCH EXISTING IN ALL ASPECTS.

19. SCHEDULE OF WORK

ANY WORK TO BE PERFORMED IN EXISTING BUILDINGS DURING SCHOOL SESSIONS MUST BE PLANNED BY THE CONTRACTOR IN ADVANCE. THE SCHEDULING SHALL BE DONE IN COOPERATION WITH THE SCHOOL PRINCIPAL WHO WILL MAKE AVAILABLE TO THE CONTRACTOR FOR THE PERFORMANCE OF THIS WORK, PORTIONS OF BUILDING WHICH MAY NORMALLY BE IN USE.

20. CONTINUITY OF EXISTING ELECTRICAL SYSTEMS

A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF POWER, LIGHT COMMUNICATION, SIGNAL, FIRE ALARM AND SECURITY SYSTEM SERVICE TO THE EXISTING BUILDINGS.

B. REFRIGERATION MOTORS SHALL BE KEPT OPERATING AT ALL TIMES, EXCEPT FOR PERIODS OF TIME NOT AGGREGATING MORE THAN TWO HOURS IN ANY ONE DAY AND DURING THE VACATION PERIOD. NOTIFY THE DISTRICT BEFORE DISCONNECTING REFRIGERATION MOTORS.

21. SCHEDULED POWER OUTAGES

COORDINATE AND SCHEDULE ALL OUTAGES WITH THE SCHOOL DISTRICT'S DIRECTOR OF MAINTENANCE PRIOR TO ANY AND ALL OUTAGES.

22. SAFETY SWITCHES

A. SHALL BE SAME MANUFACTURER AS PANELBOARDS WITH REJECTION TYPE FUSE CLIPS AND DUAL ELEMENT TIME RELAY FUSES AS REQUIRED BY THE DRAWINGS AND LOCKABLE IN THE "OFF" POSITION. HEAVY DUTY TYPE.

B. ALL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING AND/OR BRACING GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE LINE TERMINALS OF THAT EQUIPMENT BUT NOT LESS THAN THE RATING INDICATED.

23. SHOP DRAWINGS

A. WITHIN TEN (10) DAYS AFTER RECEIPT OF CONTRACT, SUBMIT TO ARCHITECT SEVEN (7) COMPLETE SETS OF DRAWINGS FOR ALL ELECTRICAL EQUIPMENT AND DEVICES LISTED BELOW. DO NOT DELIVER THESE ITEMS TO THE JOB SITE UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY ARCHITECT AND ELECTRICAL ENGINEER.

B. SUBMIT DRAWINGS FOR THE FOLLOWING EQUIPMENT:

1) DISTRIBUTION SWITCHBOARD AND CIRCUIT BREAKERS
2) SIGNAL\COMMUNICATION DEVICES
3) FIRE ALARM SYSTEM DEVICES AND EQUIPMENT

SYMBOLS LIST

- CIRCUIT BREAKER (SEE SINGLE LINE DIAGRAM).
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS.
- CONDUIT RUN BELOW GRADE.
- "RGS" CONDUIT RUN EXPOSED ON WOOD SLEEPERS.
- FREE STANDING DISTRIBUTION SWITCHBOARD.
- FLUSH MOUNTED PANELBOARD. (SEE SINGLE LINE DIAGRAM).

C.O.	CONDUIT ONLY.	NTS	NOT TO SCALE.
WP	WEATHERPROOF.	UON	UNLESS OTHERWISE NOTED.
GRD.	GROUND.	CU	COPPER.
NIC.	NOT IN CONTRACT	GFI	GROUND FAULT INTERRUPTER

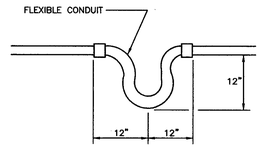
- JUNCTION BOX MOUNTED IN ACCESSIBLE CEILING SPACE.
- J_S JUNCTION BOX FLUSH MOUNTED IN CEILING FOR SECURITY SYSTEM MOTION SENSOR.
- $S_{\$}$ FLUSH MOUNTED 277V. 20A. RATED SINGLE POLE TOGGLE SWITCH AT +48" U.O.N. a,b,c, etc. INDICATES LIGHTING FIXTURE CONTROL.
- FLUSH MOUNTED 125V.,2P.,3W.,15 AMP RATED DUPLEX RECEPTACLE MOUNTED AT +18". U.O.N.
- FLUSH MOUNTED 125V.,2P.,3W.,15 AMP RATED GFI TYPE DUPLEX RECEPTACLE MOUNTED HORIZONTALLY AT +2" ABOVE SPLASH. U.O.N.
- SEMI-FLUSH MOUNTED FIRE ALARM SYSTEM AUDIO/VISUAL ANNUNCIATOR OUTLET +80" TO BOTTOM OF LIGHT U.O.N.
- FLUSH MOUNTED TELEPHONE HANDSET OUTLET. +48" U.O.N.
- FLUSH MOUNTED COMPUTER DATA OUTLET AT +18" U.O.N.
- T — 1/2"C. WITH 1#22/5 CONDUCTOR CABLE FOR TELEPHONE SYSTEM CABLE.
- FA — SEE FIRE ALARM SYSTEM RISER DIAGRAM.
- D1 — 1"C.O. FOR DATA SYSTEM CABLING.

———	1/2"C. 2#12	——####	1/2"C. 5#12
———#	1/2"C. 3#12	——####	3/4"C. 6#10
———##	1/2"C. 4#12	——####	3/4"C. 7#10

- X — ADJACENT TO LIGHT FIXTURE, OUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO REMAIN.
- XR — ADJACENT TO LIGHT FIXTURE, OUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO BE REMOVED.
- "XA" — WHEN SHOWN ADJACENT TO LIGHT FIXTURE OR OUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO BE ABANDONED. REMOVE DEVICE & INSTALL BLANK PLATE AND PULL WIRES FROM CONDUIT AS REQUIRED.

NOTES:

1. THE ELECTRICAL DRAWINGS INDICATE NEW WORK. EXISTING ELECTRICAL SYSTEMS ARE NOT SHOWN EXCEPT WHERE INTERFACING IS REQUIRED.
2. CONSULT WITH THE DISTRICT'S ELECTRICAL INSPECTOR BEFORE STARTING WORK.
3. THE ELECTRICAL PLANS ARE DEVELOPED FROM AS-BUILT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE CIRCUIT CONTINUITY FOR A WORKABLE SYSTEM.
4. EACH EMPTY CONDUIT SHALL HAVE A PULL CORD INSTALLED IN IT.
5. ALL ELECTRICAL SYMBOLS SHOWN ON SCHEDULES ARE NOT NECESSARILY USED ON THIS PROJECT.
6. VERIFY EXACT LOCATION OF ALL EXISTING ELECTRICAL SWITCHGEAR, SIGNAL CABINETS (TEL/INTERCOM, F.A.,CABLE TV., AND SECURITY) PRIOR TO BID AND INSTALLATION AND NOTIFY SCHOOL DISTRICT OF ANY DISCREPANCY WITH THEIR PLANS.
7. EACH PANELBOARD SHALL BE GROUNDED WITH A 3/4" X 10' LONG COPPER CLAD STEEL GROUND ROD.
8. MAKE ALL FINAL CONNECTIONS TO PANELBOARDS IN PORTABLE CLASSROOMS.



E / E-1 **SEISMIC ISOLATION DETAIL**
NOT TO SCALE

SPECIAL NOTE:
SHALL BE INSTALLED AT EACH ROOF EXPANSION JOINT, CHANGE IN ELEVATION AND AT EACH CONDUIT ENTRY TO BUILDING.

NOTE:
EXISTING ELECTRICAL SERVICE HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS STRSS
DATE MAR 0 5 2008

THIS IS A COMPLETE AUTOMATIC FIRE ALARM SUBMITTAL

DLE ENGINEERING, INC.
600 West Broadway Suite 250
Glendale, Ca. 91204(818) 265-9720

ARROYO HIGH SCHOOL
4921 CEDAR AVENUE, EL MONTE, CALIFORNIA
EL MONTE UNION HIGH SCHOOL DISTRICT
SYMBOLS, NOTES AND SPECIFICATIONS

DATE	JOB NO.	DRAWN	CHECKED
6-6-08	-	CADD	DL EVANS

SHEET . OF

EA-1

REFERENCE NOTES:

1. NEW FIRE ALARM CONTROL PANEL. FIRELITE MS-9000 UD.
2. NEW 24"SQ. X 8"D. NEMA 3R ENCLOSURE AND FIRE ALARM JUNCTION BOX.
3. EXISTING SIGNAL/COMMUNICATION UNDERGROUND CONDUIT. PROVIDE WIRING AS REQUIRED FOR (TELEPHONE, PA/SPEAKER & DATA SYSTEM). SEE NOTE (7)
4. EXISTING FREESTANDING IDF IN NEMA 3R ENCLOSURE.
5. NEW 2' X 3' X 3' PULLBOX.
6. NEW 4"C.O. INSTALL NEW (20) CAT6 CABLE, 1-25 PAIR TELEPHONE CABLE AND 1-5 PAIR INTERCOM CABLE. CAT6 CABLE TO BE INSTALLED WITH 2" ORANGE INNERDUCT.
7. TELEPHONE SYSTEM -(1) #22/4 CONDUCTOR CABLE FROM EACH CLASSROOM BLDG. TO PUNCH DOWN BLOCKS IN 36"SQ. X 8"D. ENCLOSURE ON BLDG. P1.

   PA/SPEAKER SYSTEM-(1) #22/5 PAIR CABLE. CABLE SHALL DAISY CHAIN FROM BLDG. SPEAKER TO BLDG. SPEAKER FROM 36"SQ. X 8"D. ENCLOSURE ON BLDG. P1

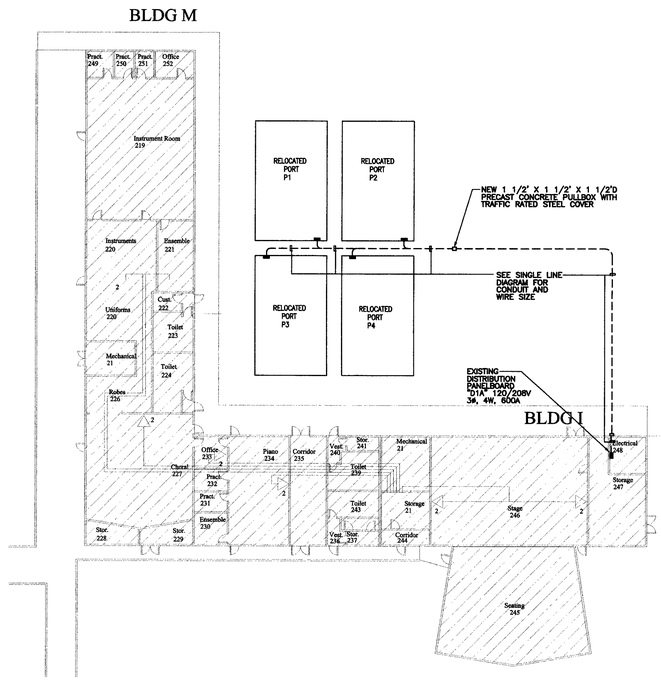
   DATA SYSTEM -(5) CAT 6 CABLES FROM EACH CLASSROOM BLDG. BACK TO EXISTING FREESTANDING. EACH CAT 6 CABLE SHALL HAVE 50' OF SLACK COILED IN CEILING SPACE FOR EXTENSION AND TERMINATION IN WIREMOLD 5400 SURFACE RACEWAY.
8. NEW 36"SQ. X 8"D. NEMA 3R ENCLOSURE WITH LOCKABLE HINGED DOOR, 3/4" PLYWOOD BACKBOARD, TELEPHONE PUNCH DOWN BLOCKS AND PA SYSTEM TERMINAL CONNECTORS MOUNTED INSIDE.
9. NEW:
   2"C. WITH 5 CAT6 CABLE.
   2"C. WITH 1#22/4 CONDUCTOR CABLE AND 1#22/5 CONDUCTOR CABLE
   2"C.O. (SPARE)
10. NEW:
    2"C. WITH (2) 5 CAT6 CABLE.
    2"C. WITH (2) 1#22/4 CONDUCTOR CABLE AND (2) 1#22/5 CONDUCTOR CABLE
    2"C.O. (SPARE)
11. NEW:
    2"C. WITH (3) 5 CAT6 CABLE.
    2"C. WITH (3) 1#22/4 CONDUCTOR CABLE AND (3) 1#22/5 CONDUCTOR CABLE
    2"C.O. (SPARE)
12. NEW:
    2"C. WITH (10) 5 CAT6 IN EACH
    2"C. WITH 1-25 PAIR TELEPHONE CABLE AND 1-5 PAIR INTERCOM CABLE
13. NEW 2' X 3' X 3' PRECAST CONCRETE PULLBOX WITH TRAFFIC RATED STEEL COVER.

LEGEND

- NEW FIRE ALARM CONTROL PANEL FIRELITE MS-9000UD.
- 110 AV-H — EXISTING AUDIO VISUAL DEVICE-SYSTEM SENSOR SPECTRALERT-P2R (110 CANDELA) CSFM #7125-1653:188
- WP — NEW WEATHERPROOF HORN DEVICE-SYSTEM SENSOR HRK WITH WEATHERPROOF BACKBOX CSFM #7135-1653:189
- SD — EXISTING PHOTOELECTRIC SMOKE DETECTOR-FIRELITE SD355T(A) CSFM #7272-0075:194
- HD — EXISTING HEAT DETECTOR-FIRELITE H355R RATE OF RISE CSFM #7270-0075:195

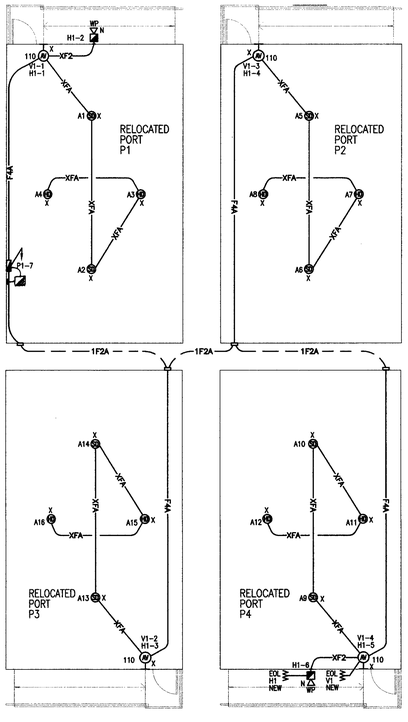
1FA	– 1"C. 2#18/2 TWISTED PAIR
FA	– 1/2"C. 2#18/2 TWISTED PAIR
F1	– 1/2"C. 2#12
F1A	– 1/2"C. 2#12 + 2#18/2 TWISTED PAIR
F2	– 1/2"C. 4#12
F2A	– 1/2"C. 4#12 + 2#18/2 TWISTED PAIR
1F2A	– 1"C. 4#12 + 2#18/2 TWISTED PAIR
1F4A	– 1"C. 8#12 + 2#18/2 TWISTED PAIR
F3	– 1/2"C. 6#12
F3A	– 1/2"C. 6#12 + 2#18/2 TWISTED PAIR
F4	– 3/4"C. 8#12
F4A	– 3/4"C. 8#12 + 2#18/2 TWISTED PAIR
XFA	– EXISTING 1/2"C. 2#18/2 TWISTED PAIR

B / E-2 **SITE FIRE ALARM AND SIGNAL PLAN**
SCALE: 1"=20'-0"



A / E-2 **SITE POWER PLAN**
SCALE: 1"=20'-0"

NOTE: ALL WORK SHOWN ON THIS PLAN IS NEW AND PART OF THIS CONTRACT UNLESS OTHERWISE NOTED.

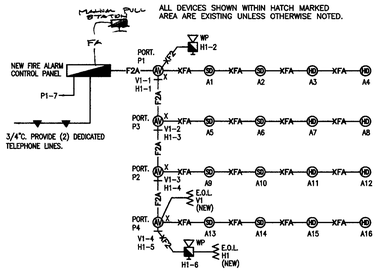


E / E-2 **TYPICAL PORTABLE FIRE ALARM PLANS**
SCALE: 1/8"=1'-0"

NOTE:
SEE FIRE ALARM RISER DIAGRAM "B/E-3" FOR ALL "FA" CONDUIT AND WIRE SIZE.

CENTRAL MONITORING STATION
MCNEIL SOUND & SECURITY SYSTEM
13079 GARVEY AVENUE
BALDWIN PARK, CA 91706
(626) 968-3291
UL #223586-001
ID # S6037-1

ALL DEVICES SHOWN WITHIN HATCH MARKED AREA ARE EXISTING UNLESS OTHERWISE NOTED.



D / E-2 **FIRE ALARM RISER DIAGRAM**
NTS

BATTERY CALCULATION "FCPS" P1

	DEVICE	#	CURRENT STANDBY A.	CURRENT ALARM A.	TOTAL STANDBY A.	TOTAL ALARM A.
EXTERIOR (110cd)	HORN	2	0	.041	0	.082
	HORN/STROBE	4	0	.174	0	.696
	SMOKE/HEAT	16	.0003	.0003	.0048	.0048
	SYNC MODULE	1	0	.035	0	.035
	FACP	1	.025	.08	.025	.08
			TOTAL STANDBY CURRENT		.03	
				TOTAL ALARM CURRENT		.90

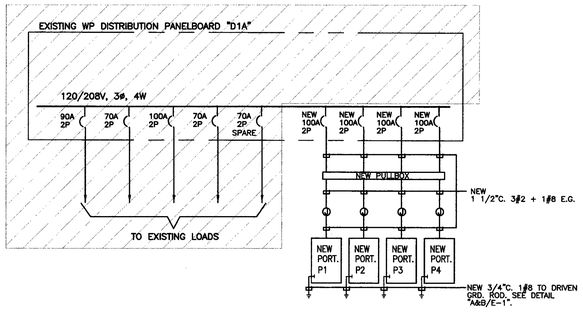
ALARM CURRENT X ALARM TIME /60 = AMP/HR FOR ALARM
.90 X 5/60 = 0.08 AMP HR.
STANDBY CURRENT X 24 HRS = AMP/HR FOR ALARM
.03 X 24 = .71 AMP HR.
TOTAL = .79 AMP HR.
BATTERY SIZE = 7 AMP HR.

VISUAL CIRCUIT V1: 4 VISUAL DEVICES (110cd) @ .174A. EACH = .696 A

$$\frac{.696A \times 300' \times 21.5}{6530\ (\#12)} = .687\ VD$$

$$\frac{.687VD}{24V.} \times 100 = 2.86\%$$

WORST CASE VOLTAGE DROP CALCULATION



C / E-2 **SINGLE LINE DIAGRAM**
NOT TO SCALE

PANEL IS FURNISHED COMPLETE AS PART OF BUILDING UNIT.

VOLTAGE 120/208V. 1Ø, 3W. — PANEL P1 — MAIN 100A. 2P
MOUNTING FLUSH — LOCATION BLDG. P1 — BUS SIZE 100A.

LOCATION	OUTLET LTS	OUTLET REC	OUTLET MISC.	VOLT AMPS PH. A	VOLT AMPS PH. B	VOLT AMPS PH. C	CKT BKR	CKT NO.	CKT NO.	CKT BKR	VOLT AMPS PH. A	VOLT AMPS PH. B	VOLT AMPS PH. C	OUTLET LTS	OUTLET REC	OUTLET MISC.	LOCATION
CLASSROOM		9		1620			20	1	2	50	4180						AC-1
CLASSROOM		12			936		20	3	4	1/2		4180					AC-1
CLASSROOM		13		1116			20	5	6	20							SPARE
• FACP			1		200		20	7	8	20							SPARE
SPARE							20	9	10	20							SPARE
SPARE							20	11	12	20							SPARE
SPACE								13	14								SPACE
SPACE								15	16								SPACE
SPACE								17	18								SPACE
SPACE								19	20								SPACE
SPACE								21	22								SPACE
SPACE								23	24								SPACE
								25	26								
								27	28								
								29	30								
								31	32								
								33	34								
								35	36								
								37	38								
								39	40								
								41	42								
TOTAL THIS SIDE				2736	1136						4180	4180					TOTAL THIS SIDE
TOTAL BOTH SIDES				6916	5316						12032						TOTAL CONNECTED LOAD
LONG CONTINUOUS LOAD				–			TOTALS 12KVA. 57.7A.				–						LONG CONTINUOUS LOAD @ 125%
											–						NON CONTINUOUS LOAD @ 100%
• PROVIDE CIRCUIT BREAKER WITH LOCK ON DEVICE.																	NON CONTINUOUS LOAD @

NOTES:
1. ALL WIRE SIZES SHOWN ARE BASED ON 600V. TYPE THHN/THWN CU.
2. SEE SHEET "A/E-2" FOR LOCATION OF EXISTING DISTRIBUTION PANELBOARDS.
3. PANELBOARD CIRCUIT BREAKERS SHALL HAVE A MINIMUM AIC RATING OF 10,000A. (SYM.).
4. GROUNDING TEST SHALL BE WITNESSED BY SITE INSPECTOR.
5. THE EXISTING POWER DISTRIBUTION SYSTEM HAVE BEEN INVESTIGATED AND HAVE ADEQUATE CAPACITY FOR NEW BUILDING LOADS BEING ADDED.
6. ALL ITEMS SHOWN WITHIN THE HATCH MARKED AREA ARE EXISTING UNLESS OTHERWISE NOTED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 03 1 1 2 3 1 7
ACCEPTED AS NOTED
DATE MAR 0 5 2008

THIS IS A COMPLETE AUTOMATIC FIRE ALARM SUBMITTAL

DE ENGINEERING, INC.
600 West Broadway Suite 250
Glendale, Ca. 91204(818) 265-9720

ARROYO HIGH SCHOOL
4921 CEDAR AVENUE, EL MONTE, CALIFORNIA
EL MONTE UNION HIGH SCHOOL DISTRICT

SITE POWER, SIGNAL & FA PLAN, DIAGRAMS & DETAILS

DATE 6-6-08 | JOB NO. | DRAWN CADD | CHECKED DL EVANS

SHEET . OF

EA-2

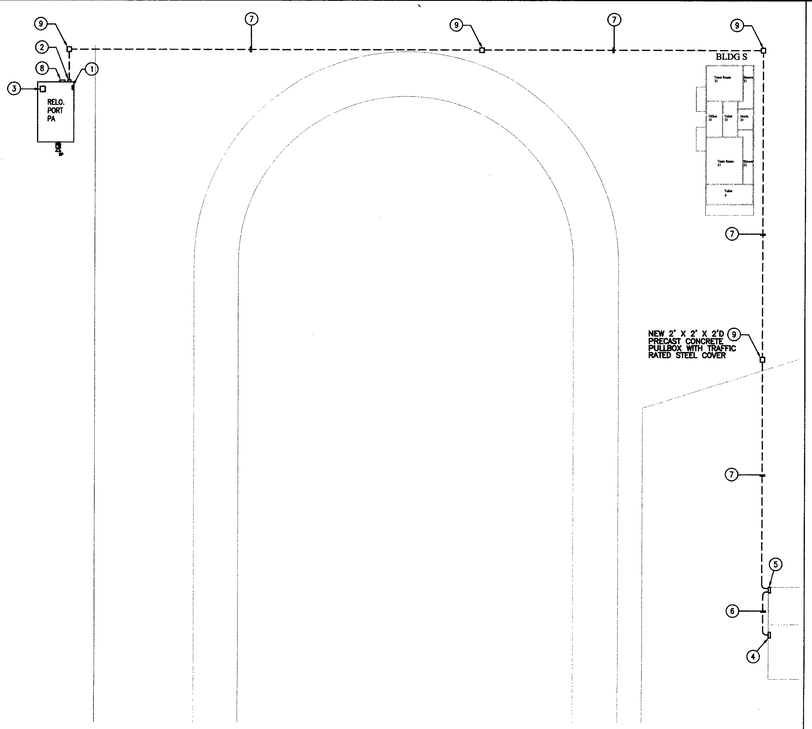
REFERENCE NOTES:

1. NEW FIRE ALARM CONTROL PANEL. FIRELITE MS-9000 UD.
2. NEW 12"SQ. X 6"D. NEMA 3R ENCLOSURE.
3. NEW IDF.
4. EXISTING DATA/TEL. TERMINAL CABINET.
5. EXISTING SIGNAL/COMMUNICATION PULLBOX.
6. EXISTING 2"C.O. INSTALL NEW 6 STRAND MULTI-MODE FIBER OPTIC CABLE, 1-5 PAIR TELEPHONE CABLE AND 1-5 PAIR INTERCOM CABLE.
7. NEW 2"C.O. INSTALL NEW 6 STRAND MULTI-MODE FIBER OPTIC CABLE, 1-5 PAIR TELEPHONE CABLE AND 1-5 PAIR INTERCOM CABLE. FIBER TO BE INSTALLED WITH 3/4" ORANGE INNER DUCT. 2"C.O. (SPARE)
8. NEW 36"SQ. X 8"D. NEMA 3R ENCLOSURE WITH LOCKABLE HINGED DOOR, 3/4" PLYWOOD BACKBOARD, TELEPHONE PUNCH DOWN BLOCKS AND PA SYSTEM TERMINAL CONNECTORS MOUNTED INSIDE.
9. NEW 2' X 2' X 2' PRECAST CONCRETE PULLBOX WITH TRAFFIC RATED STEEL COVER.

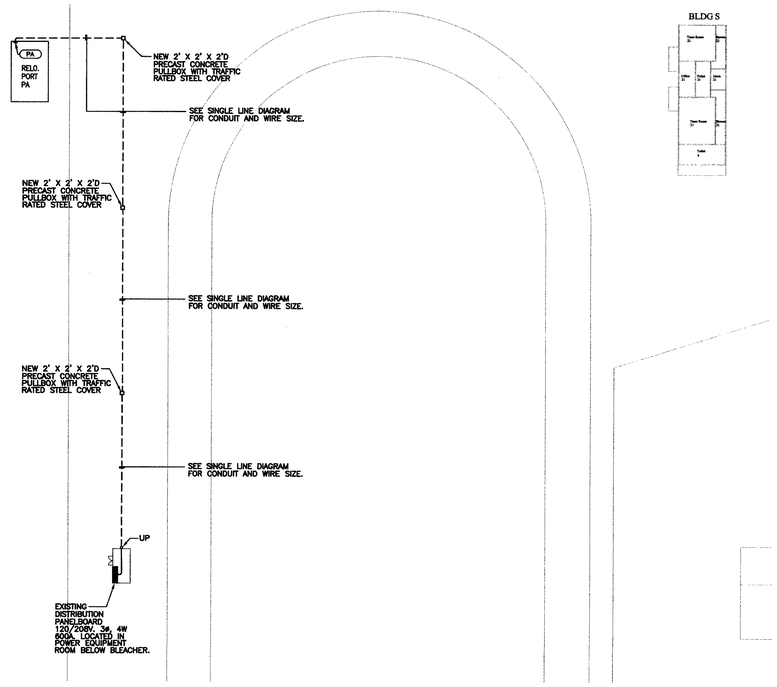
LEGEND

- NEW FIRE ALARM CONTROL PANEL FIRELITE MS-9000UD.
- 110 (AV)H EXISTING AUDIO VISUAL DEVICE-SYSTEM SENSOR SPECTRALERT-P2R (110 CANDELA) CSFM #7125-1653:188
- (H)WP NEW WEATHERPROOF HORN DEVICE-SYSTEM SENSOR HRK WITH WEATHERPROOF BACKBOX CSFM #7135-1653:189
- (SD) EXISTING PHOTOELECTRIC SMOKE DETECTOR-FIRELITE SD355T(A) CSFM #7272-0075:194
- (HD) EXISTING HEAT DETECTOR-FIRELITE H355R RATE OF RISE CSFM #7270-0075:195

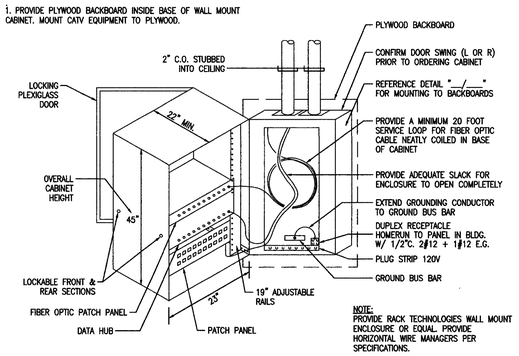
1FA - 1"C. 2#18/2 TWISTED PAIR
FA - 1/2"C. 2#18/2 TWISTED PAIR
F1 - 1/2"C. 2#12
F1A - 1/2"C. 2#12 + 2#18/2 TWISTED PAIR
F2 - 1/2"C. 4#12
F2A - 1/2"C. 4#12 + 2#18/2 TWISTED PAIR
1F2A - 1"C. 4#12 + 2#18/2 TWISTED PAIR
1F4A - 1"C. 8#12 + 2#18/2 TWISTED PAIR
F3 - 1/2"C. 6#12
F3A - 1/2"C. 6#12 + 2#18/2 TWISTED PAIR
F4 - 3/4"C. 8#12
F4A - 3/4"C. 8#12 + 2#18/2 TWISTED PAIR
XFA - EXISTING 1/2"C. 2#18/2 TWISTED PAIR



B E-3 **SITE FIRE ALARM AND SIGNAL PLAN**
SCALE: 1"=40'-0"

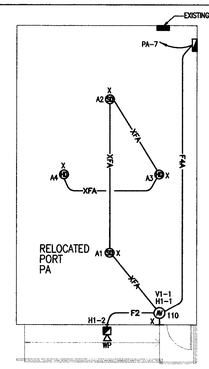


A E-3 **SITE POWER PLAN**
SCALE: 1"=40'-0"



G E-3 **IDF BACKBOARD ELEVATION**
NO SCALE

NOTE: ALL WORK SHOWN ON THIS PLAN IS NEW AND PART OF THIS CONTRACT UNLESS OTHERWISE NOTED.



E E-3 **TYPICAL FIRE ALARM PLAN**
SCALE: 1/8"= 1'-0"

NOTE:
SEE FIRE ALARM RISER DIAGRAM THIS SHEET FOR ALL "FA" CONDUIT AND WIRE SIZE.

BATTERY CALCULATION "FACP"

	DEVICE	#	CURRENT STANDBY A.	CURRENT ALARM A.	TOTAL STANDBY A.	TOTAL ALARM A.
EXTERIOR (110cd)	HORN	1	0	.041	0	.041
	HORN/ STROBE	1	0	.174	0	.174
	SMOKE/HEAT	4	.0003	.0003	.0012	.0012
	SYNC MODULE	1	0	.035	0	.035
	FACP	1	.025	.08	.025	.08
			TOTAL STANDBY CURRENT		.027	
				TOTAL ALARM CURRENT		0.33

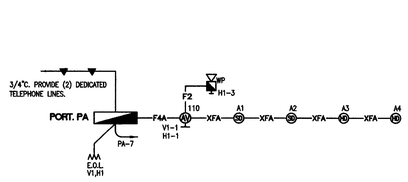
ALARM CURRENT X ALARM TIME /60 = AMP/HR FOR ALARM
0.33 X 5/60 = 0.03 AMP HR.
STANDBY CURRENT X 24 HRS = AMP/HR FOR ALARM
.03 X 24 = .66 AMP HR.
TOTAL = .69 AMP HR.
BATTERY SIZE = 7 AMP HR.

VISUAL CIRCUIT V1: 1 VISUAL DEVICES (110cd) @ .174A. EACH = .174 A

$$\frac{.174A \times 80' \times 21.5}{6530\ (\#12)} = 0.046\ VD$$

$$\frac{0.046VD}{24V.} \times 100 = .19\%$$

WORST CASE VOLTAGE DROP CALCULATION

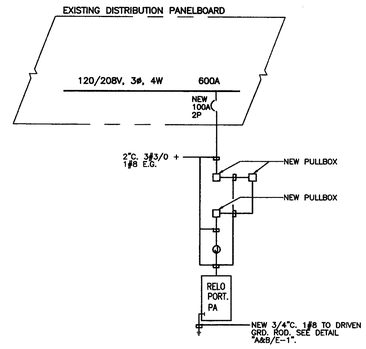


D E-3 **FIRE ALARM RISER DIAGRAM**
NTS

PANEL IS FURNISHED COMPLETE AS PART OF BUILDING UNIT.

VOLTAGE 120/208V. 1ø, 3W. — **PANEL** PA — MAIN 100A. 2P
MOUNTING FLUSH — LOCATION BLDG. PA — BUS SIZE 100A.

LOCATION	OUTLET LTS	OUTLET REC	OUTLET MISC.	VOLT AMPS PH. A	VOLT AMPS PH. B	VOLT AMPS PH. C	CKT BKR	CKT NO.	CKT NO.	CKT BKR	VOLT AMPS PH. A	VOLT AMPS PH. B	VOLT AMPS PH. C	OUTLET LTS	OUTLET REC	OUTLET MISC.	LOCATION
CLASSROOM		9		1620			20	1	2	50	4180						AC-1
CLASSROOM	12				936		20	3	4	/2		4180					AC-1
CLASSROOM	13			1116			20	5	6	20							SPARE
FACP			1		200		20	7	8	20							SPARE
SPARE							20	9	10	20							SPARE
SPARE							20	11	12	20							SPARE
SPACE								13	14								SPACE
SPACE								15	16								SPACE
SPACE								17	18								SPACE
SPACE								19	20								SPACE
SPACE								21	22								SPACE
SPACE								23	24								SPACE
								25	26								
								27	28								
								29	30								
								31	32								
								33	34								
								35	36								
								37	38								
								39	40								
								41	42								
TOTAL THIS SIDE				2736	1136						4180	4180					TOTAL THIS SIDE
TOTAL BOTH SIDES				6916	5316						12032						TOTAL CONNECTED LOAD
LONG CONTINUOUS LOAD				–				TOTALS			–						LONG CONTINUOUS LOAD @ 125%
* PROVIDE CIRCUIT BREAKER WITH LOCK ON DEVICE.								12KVA. 57.7A.			–						NON CONTINUOUS LOAD @ 100%
											–						NON CONTINUOUS LOAD @



C E-3 **SINGLE LINE DIAGRAM**
NOT TO SCALE

NOTES:
1. ALL WIRE SIZES SHOWN ARE BASED ON 600V. TYPE THHN/THWN CU.
2. SEE SHEET "A/E-2" FOR LOCATION OF EXISTING DISTRIBUTION PANELBOARDS.
3. PANELBOARD CIRCUIT BREAKERS SHALL HAVE A MINIMUM AIC RATING OF 10,000A. (SYM.).
4. GROUNDING TEST SHALL BE WITNESSED BY SITE INSPECTOR.
5. THE EXISTING POWER DISTRIBUTION SYSTEM HAVE BEEN INVESTIGATED AND HAVE ADEQUATE CAPACITY FOR NEW BUILDING LOADS BEING ADDED.
6. ALL ITEMS SHOWN WITHIN THE HATCH MARKED AREA ARE EXISTING UNLESS OTHERWISE NOTED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2009

THIS IS A COMPLETE AUTOMATIC FIRE ALARM SUBMITTAL

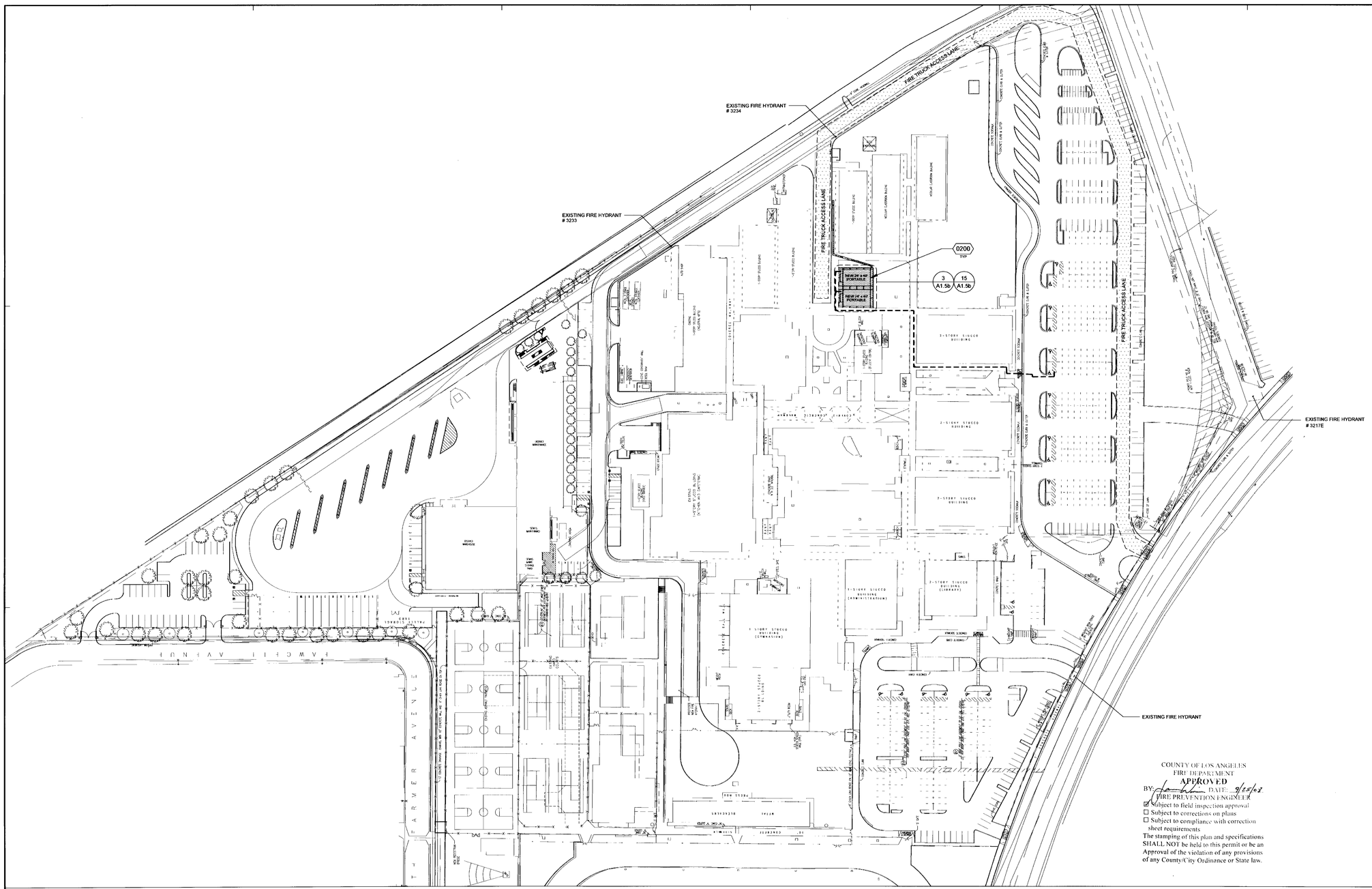
DFE ENGINEERING, INC.
600 West Broadway Suite 250
Glendale, Ca. 91204(818) 265-9720

ARROYO HIGH SCHOOL
4921 CEDAR AVENUE, EL MONTE, CALIFORNIA
EL MONTE UNION HIGH SCHOOL DISTRICT
SITE POWER, SIGNAL & FA PLAN, DIAGRAMS & DETAILS

DATE 6-6-08
JOB NO. –
DRAWN CADD
CHECKED DL EVANS

SHEET . OF

EA-3



OVERALL SITE PLAN — 1/60"=1'-0" — 3

REFERENCE NOTE

0200 24' x 40' PORTABLE CLASSROOM, SEE ATTACHED MSI 24' x 40' PORTABLE, ATTACHED DRAWINGS

CODE ANALYSIS

PORTABLE CLASSROOM BUILDING AND PORTABLE TOILET

(1 - 24' x 40') (2 - 36' x 40') (1 - 12' x 40' TOILET)

BUILDING USAGE: CLASSROOM
CONSTRUCTION TYPE: V-NR / SINGLE STORY
OCCUPANCY GROUP: E-1

BASIC ALLOWABLE AREA: 9100 SF
ACTUAL FLOOR AREA: 960 x 2 = 1920 SF
FLOOR RATIO: 1920 / 9100 = .21

GENERAL NOTES

1. EACH COMMERCIAL COACH WILL BE EQUIPPED WITH AN EVACUATION FIRE ALARM CONSISTING OF AN APPROVED MANUAL PULL-STATION AND AUDIBLE DEVICES (WITH A MINIMUM DECIBLE RATING OF 95 AT 10 FEET) POWERED BY THE COMMERCIAL LESS THAN TWENTY FEET APART HAVE BEEN PROVIDED WITH ADDITIONAL AUDIBLE DEVICES TO ENSURE THE FIRE ALARM CAN BE HEARD WITHIN ADJACENT COMMERCIAL COACHES.
2. THE SCHOOL PRINCIPAL HAS BEEN ADVISED THAT THE CAMPUS FIRE ALARM DRILL AND EVACUATION PROCEDURES ARE TO INCLUDE ALERTING BY SCHOOL STAFF OF OCCUPANTS IN ADJACENT COMMERCIAL COACHES OR BUILDINGS WHEN A FIRE ALARM SOUND AND NOTIFICATION OF THE SCHOOL OFFICE OF THE FIRE ALARM , TO ENSURE EVACUATION AS WELL AS REPORTING OF THE FIRE ALARM TO THE FIRE DEPARTMENT.

SITE LEGEND

------- PATH OF TRAVEL (P.O.T) AS INDICATED IS A BARRIER FREE ACCESS AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE , EXCEPT THAT THE LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. MAXIMUM SLOPE IN THE DIRECTION IS 5% UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED.

DESIGN GROUP, INC.
Architects
2559 LUNES
LA VERNE, CA 91750

SO. EL MONTE HIGH SCHOOL PORTABLES

EL MONTE UNION HIGH SCHOOL DISTRICT
EL MONTE, CALIFORNIA

LICENSED ARCHITECT
MICHAEL POH
LIC. #21761
Exp. 10/31/09
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 112857
AC FLS SS
DATE MAR 05 2009

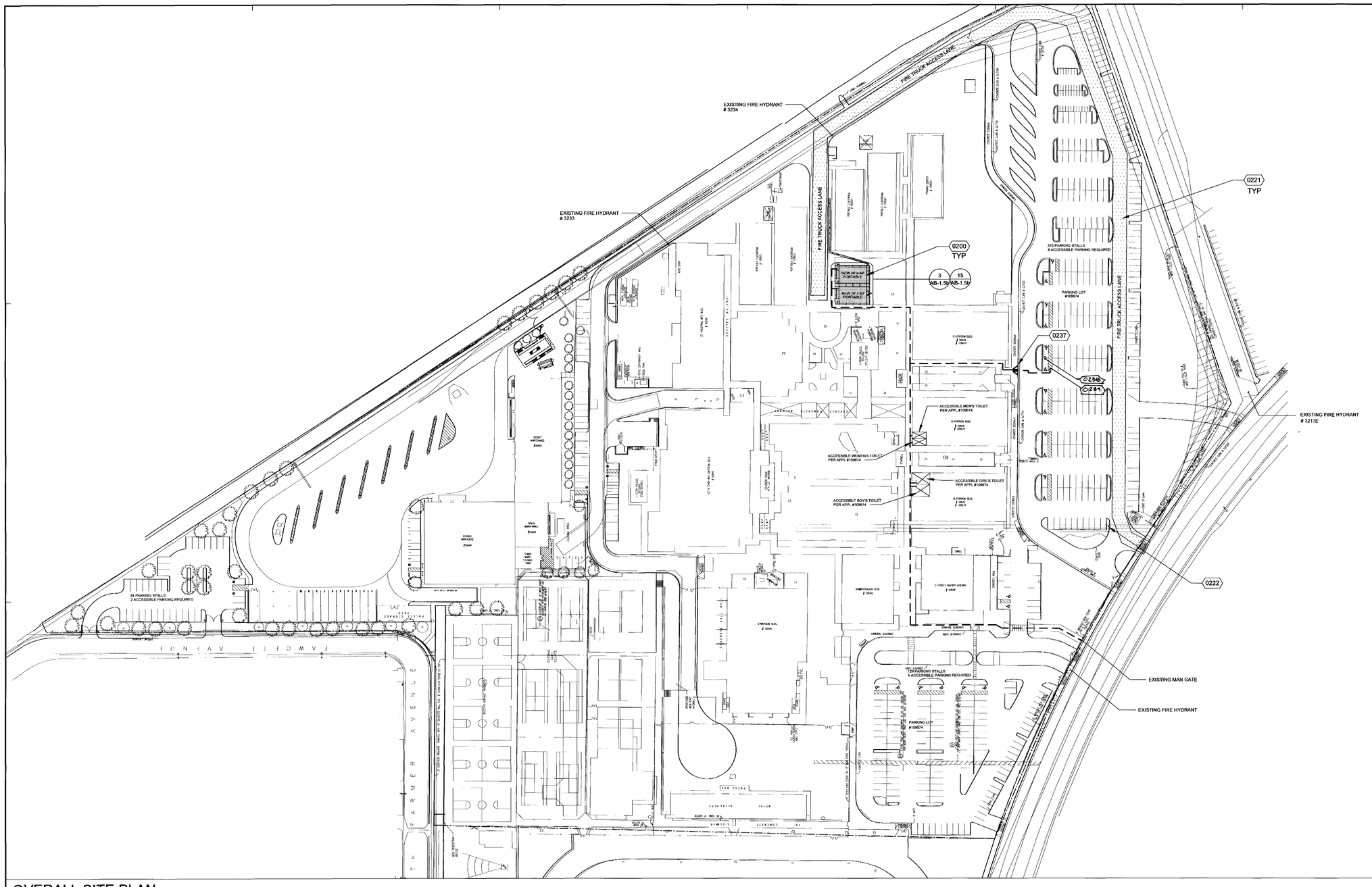
NO	DATE	BY	DESCRIPTION

REVISIONS

DRAWN: RA	CHECKED: MP
DATE: JUNE, 2008	SCALE: AS NOTED
PROJECT NUMBER: 08102	

SITE PLAN

DRAWING NUMBER: A1.5



OVERALL SITE PLAN

1/60"=1'-0" | 3

0200 24' x 40' PORTABLE CLASSROOM,

0221 20' WIDE MIN. FIRE TRUCK ACCESS LANE

0222 TOW AWAY SIGN, SEE DETAIL 15/2.1

0237 DEMOLISHED EXISTING CURB RAMP AND PROVIDE NEW ACCESSIBLE CURB RAMP PER DETAIL 8/2.1

0238 UPGRADE PARKING SIGN PER DETAIL 16/2.1

0239 PARKING STRIPING SHALL BE CONTRASTING COLOR WITH BACKGROUND @ 36" O.C.

REFERENCE NOTE

PORTABLE CLASSROOM BUILDING AND PORTABLE TOILET

(2 - 24' x 40')

BUILDING USAGE: CLASSROOM
CONSTRUCTION TYPE: V-B / SINGLE STORY
OCCUPANCY GROUP: E

BASIC ALLOWABLE AREA: 9100 SF
ACTUAL FLOOR AREA: 960 x 2 = 1920 SF
FLOOR RATIO: 1920 / 9100 = .21

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GENERAL NOTES

— — — — PATH OF TRAVEL (P.O.T) AS INDICATED IS A BARRIER FREE ACCESS AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE , EXCEPT THAT THE LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. MAXIMUM SLOPE IN THE DIRECTION IS 5% UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED.

——·—— PROPERTY LINE

SITE LEGEND

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LA VERNE, CA 91750

SO. EL MONTE HIGH SCHOOL
PORTABLES

EL MONTE UNION HIGH SCHOOL DISTRICT
EL MONTE, CALIFORNIA

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RENEWAL 08-31-09
STATE OF CALIFORNIA

CONSULTANT

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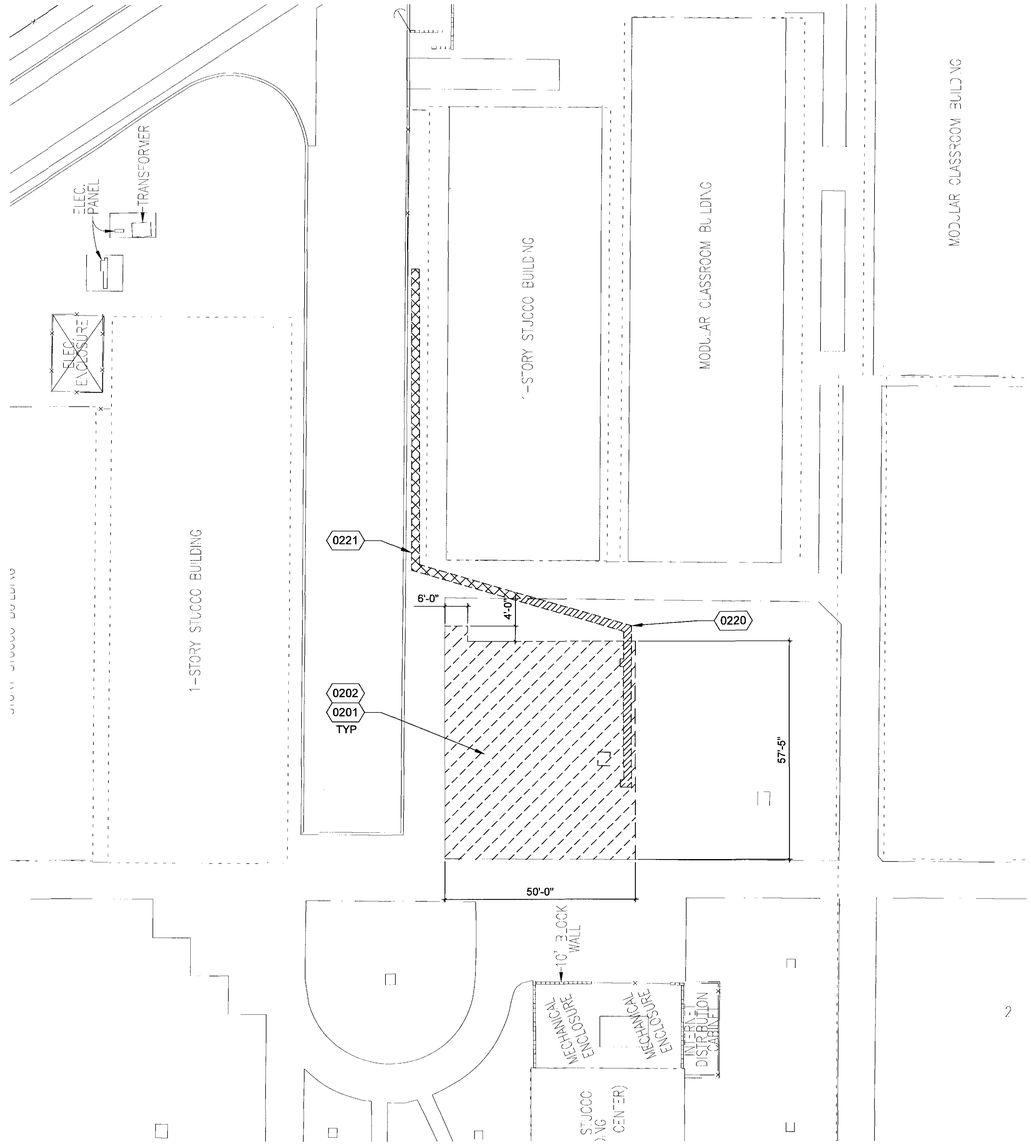
OFFICE OF REGULATION SERVICES
APPL # 03-112317
AC ___ FLS Elec SS ___
DATE MAR 05 2009

NO	DATE	BY	DESCRIPTION
			REVISIONS

DRAWN: RA	CHECKED: MP
DATE: JUNE, 2008	SCALE: AS NOTED
PROJECT NUMBER: 08102	

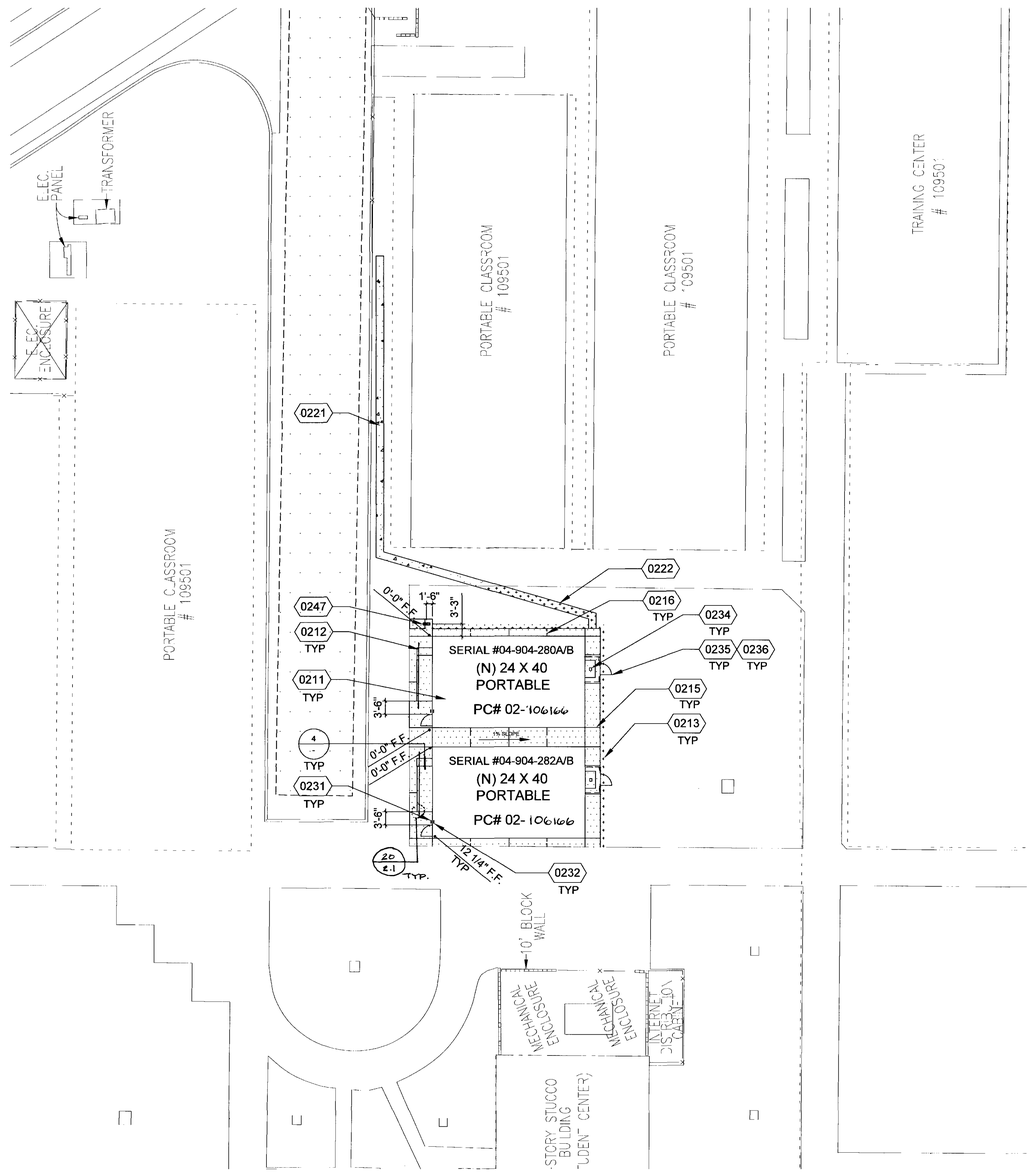
SITE PLAN

DRAWING NUMBER: AB-1.5a



DEMOLITION SITE PLAN

1/16"=1'-0" | 15



IMPROVEMENT SITE PLAN

1/16"=1'-0" | 3

0201 HATCH DEPICTS EXISTING GRASS TO BE REMOVE. REMOVE AND RECOMPACT MINIMUM OF 12" OF DIRT TO 95% COMPACTION

0202 REMOVE ALL IRRIGATION LINES AND HEADS IN THE AREA. RELOCATE SPRINKLER HEADS TO PROVIDE 100% COVERAGE OF EXISTING GRASS AREA.

0211 24' x 40' PORTABLE CLASSROOM, SEE ATTACHED MSI DRAWINGS - STOCKPILE #68505

0212 HATCH DEPICT NEW 6" THICK (3000 PSI) CONCRETE REINFORCED WITH AT LEAST #3 REBARS SPACED AT 24" O.C. EACH WAY AT MID HEIGHT OF THE SLAB OVER MIN. 95% COMPACTED SOIL. PROVIDE THICKENED EDGE AROUND PERIMETER OF SLAB.

0213 REPLACE DAMAGE GRASS WITH NEW SOD TO MATCH EXISTING. RELOCATE EXISTING SPRINKLER HEADS TO PROVIDE 100% COVERAGE.

0215 EXPANSION JOINT, SEE DETAIL 2/2.1

0216 CONTROL JOINT, SEE DETAIL 2/2.1

0219 HATCH DEPICT PORTION OF EXISTING CONCRETE TO BE REMOVE TO ACCOMODATE ELECTRICAL TRENCH, SEE DET. 3/2.1 SEE ELECTRICAL DWGS FOR THE EXTENT OF THE TRENCHING.

0220 HATCH DEPICT PORTION OF EXISTING GRASS AREA TO BE REMOVE TO ACCOMODATE ELECTRICAL TRENCH, SEE DET. 3/2.1 SEE ELECTRICAL DWGS FOR THE EXTENT OF THE TRENCHING.

0221 PATCH AND REPAIR SLAB TO MATCH EXISTING

0222 REPLACED GRASS WITH NEW SOD TO MATCH EXISTING

0231 ROOM CONTROL SIGNAGE, SEE DETAIL 14/2.1

0232 EXIT SIGN, SEE DETAIL 7/2.1

0234 PROVIDE DRYWELL BELOW MECHANICAL UNIT, REF DETAIL 17/2.1

0235 PROVIDE CHAIN LINK SECURITY FENCE, REF DETAIL 1/2.1

0236 PROVIDE CHAIN LINK SECURITY GATE, REF DETAIL 5/2.1

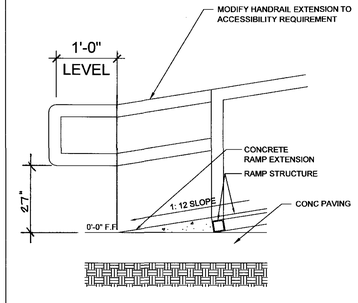
0247 PROVIDE PEDESTAL DRINKING FOUNTAIN - HAWS MODEL# 3300 - HI-LO DRINKING FOUNTAIN. CONNECT DRINKING FOUNTAIN TO THE NEAREST EXISTING WATER AND SEWER LINES

REFERENCE NOTE

1. FOR NEW CONCRETE SLAB CONDITION, SEE DETAIL 2/2.1
2. PROVIDE DOOR PRESSURE AT 5LBS WITH 3 SECONDS DELAY

GENERAL NOTES

SITE LEGEND



RAMP/HANDRAIL DETAIL

1/8"=1'-0" | 4

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CONSULTANT

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DRAWN: RA	CHECKED: MP
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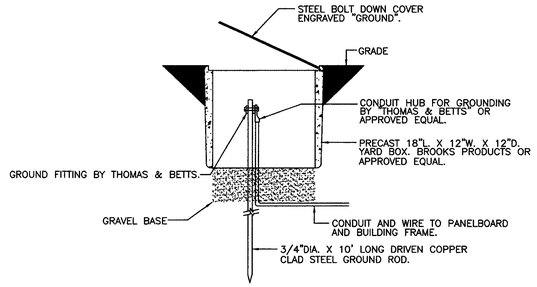
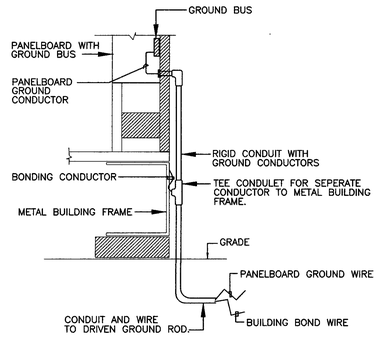
DEMOLITION & IMPROVEMENT SITE PLAN

DRAWING NUMBER: AB-1.5b



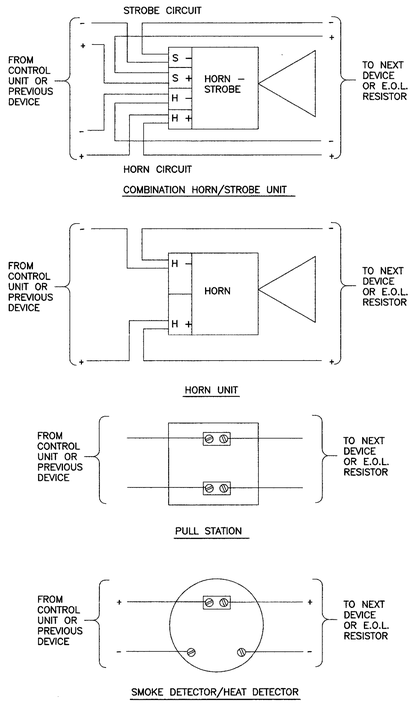
A / E-1 **GROUND WELL DETAIL**
NOT TO SCALE



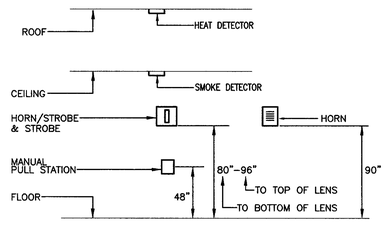
NOTES:

1. PROVIDE SEPERATE GROUND CONDUCTORS FROM PANELBOARD AND METAL BUILDING FRAME TO DRIVEN GROUND ROD.
2. CHECK RESISTANCE TO GROUND IF RESISTANCE EXCEEDS 25 OHMS INSTALL ONE ADDITIONAL GROUND ROD PER CEC 250-84.
3. SITE INSPECTOR SHALL WITNESS AND VERIFY GROUNDING TEST AND SUBMIT A WRITTEN REPORT TO ARCHITECT AND DSA REPRESENTATIVES.

B / E-1 **GROUNDING DETAIL PORTABLE CLASSROOM BUILDING**
NOT TO SCALE



C / E-1 **TYPICAL DEVICE WIRING**
SCALE: NONE



D / E-1 **FA DEVICE ELEVATION**
SCALE: NONE

SEQUENCE OF OPERATION				
	BUILDING POWER FAILURE	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	PULL STATION
ANNUNCIATE AT FIRE CONTROL PANEL (ALARM, SUPERVISION & TROUBLE)	YES	YES	YES	YES
SOUND CONTROL PANEL TROUBLE BUZZER	YES	ON WIRING FAULT	ON WIRING FAULT	ON WIRING FAULT
ACTIVATE AUDIBLE ALARM SIGNALS (UNTIL SILENCE)	NO	YES	YES	YES
ACTIVATE VISUAL ALARM SIGNALS (UNTIL RESET)	NO	YES	YES	YES
CENTRAL MONITORING STATION	YES	YES	YES	YES

ELECTRICAL SPECIFICATIONS

24. GUARANTEE

THIS CONTRACTOR SHALL FURNISH THE OWNER WITH A WRITTEN GUARANTEE FOR THE PERIOD OF ONE YEAR AGAINST FAILURE OF THE ELECTRICAL SYSTEM DUE TO FAULTY MATERIALS OR WORKMANSHIP, GUARANTEE PERIOD SHALL START AT THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ALL SUCH DEFECTS MUST BE REPAIRED OR DEFECTIVE MATERIALS REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

25. CLEAN-UP

UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DEBRIS AND UNUSED MATERIALS, TOOLS AND EQUIPMENT RESULTING FROM THIS WORK.

26. DRAWINGS AND SPECIFICATIONS

ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN SOME RESPECTS. SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY IN THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE ADJUSTED AS DICTATED BY EXISTING CONDITIONS. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.

28. FIRE ALARM SYSTEM

A. FURNISH AND INSTALL NEW FIRE ALARM SYSTEM WIRING AS INDICATED ON THE DRAWINGS PER THE FOLLOWING:

1) THE GENERAL CONTRACTOR UNDER THIS CONTRACT IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUIT, WIRE, BOXES AND EQUIPMENT SHOWN ON THE DRAWINGS (INCLUDING ANY AND ALL RELATED CUTTING AND PATCH WORK REQUIRED).

29. TELEPHONE/INTERCOM AND DATA SYSTEMS

A. FURNISH AND INSTALL NEW TELEPHONE SERVICE AND SYSTEM WIRING AS INDICATED ON THE DRAWINGS PER THE FOLLOWING:

1) THE GENERAL CONTRACTOR UNDER THIS CONTRACT IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUIT, WIRE, BOXES AND EQUIPMENT SHOWN ON THE DRAWINGS (INCLUDING ANY AND ALL RELATED CUTTING AND PATCH WORK REQUIRED).

SCHOOL EQUIPMENT ANCHORAGE

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

THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO ASCE 7 SECTION 13.3.1 AND TABLE 13.6.1. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS. AND HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND DSA's DISTRICT STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.

1. CODE COMPLIANCE

A. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF CALIFORNIA CODE OF REGULATIONS, ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHALL AND ALL OTHER GOVERNING CODES.

2. PERMITS AND FEES

SECURE AND PAY FOR ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK.

3. MATERIAL

A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED BY THE UNDERWRITER'S LABORATORIES, INC. MANUFACTURED IN ACCORDANCE WITH U.L., NEMA, ANSI OR IEEE STANDARDS, AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION.

4. GROUNDING

A. ALL ELECTRICAL EQUIPMENT, DEVICES AND SYSTEMS SHALL BE GROUNDED IN STRICT COMPLIANCE WITH NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES. A GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL NEW BRANCH CIRCUIT WIRING.

5. ALL CONDUCTORS SHALL BE COPPER TYPE "THWN\THHN" RATED AT 600 VOLTS, UNLESS OTHERWISE NOTED.

6. ALL CONDUITS EXPOSED SHALL BE (RGS) RIGID GALVANIZED STEEL.

7. ALL CONDUITS CONCEALED SHALL BE "EMT".

8. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC.

9. FLEXIBLE STEEL CONDUIT SHALL NOT BE USED.

10. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL ELECTRICAL CONDITIONS THAT MAY AFFECT HIS BID AND HE SHALL INCLUDE ALL SUCH COSTS WHEN SUBMITTING HIS BID PROPOSAL. NO EXTRAS WILL BE ALLOWED IF THE CONTRACTOR DID NOT VISIT THE EXISTING JOB SITE AND TAKE INTO CONSIDERATION ALL EXISTING ELECTRICAL CONDITIONS.

11. THE CONTRACTOR SHALL EXERCISE CARE AND PRUDENCE WHEN RUNNING CONDUIT BELOW GRADE. ALL DAMAGES INCURRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. WHERE CONDUITS ARE RUN EXPOSED ON ROOF OR COVERED WALK, USE 2" X 4" REDWOOD BLOCKS AT 5'-0" ON CENTER. USE MASTIC TO SECURE THE BLOCKS TO THE ROOF OR CANOPY, NO SCREWS ALLOWED.

13. ALL CONDUITS BELOW GRADE SHALL BE PVC SCHEDULE 40 ENCASED IN 3" CONCRETE ENVELOPE (30" BELOW FINISH GRADE). CONCRETE SHALL BE 2500 LBS. P.S.I. WITH PEA GRAVEL MIX. PROVIDE APPROPRIATELY SIZED EQUIPMENT GROUND CONDUCTOR.

14. ALL UNDERGROUND PULL BOXES SHALL BE SEALED AND WATERTIGHT. TRAFFIC COVERS SHALL BE IDENTIFIED AS "ELECTRICAL" OR "SIGNAL", DEPENDING ON TYPE OF CIRCUIT. NO SPLICING IS PERMITTED IN UNDERGROUND PULL BOXES.

15. WHERE CUTTING OF EXISTING CONCRETE AND ASPHALT IS NECESSARY, THE CONTRACTOR SHALL PATCH THE CONCRETE OR ASPHALT TO MATCH EXISTING SURFACE.

16. ALL TRENCHING AND BACKFILL AREAS SHALL BE PROTECTED SO AS TO PREVENT PERSONNEL INJURY. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY INJURY. COORDINATE TRENCHING WITH EACH SCHOOL PRINCIPAL.

17. ALL BACKFILL SHALL BE TAMPED TO MATCH THE EXISTING DENSITY. ANY CRACKING OR SAGGING OF ASPHALT OR CONCRETE PAVING WILL BE REPAIRED AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT. DO NOT BACKFILL PRIOR TO INSPECTION OF DUCT BANK.

18. REWORK OF EXISTING SWITCHBOARD

WHERE A NEW CIRCUIT BREAKER OR A SWITCH/FUSE ARE CALLED FOR WITHIN EXISTING SWITCHBOARD, THEY SHALL MATCH EXISTING IN ALL ASPECTS.

19. SCHEDULE OF WORK

ANY WORK TO BE PERFORMED IN EXISTING BUILDINGS DURING SCHOOL SESSIONS MUST BE PLANNED BY THE CONTRACTOR IN ADVANCE. THE SCHEDULING SHALL BE DONE IN COOPERATION WITH THE SCHOOL PRINCIPAL WHO WILL MAKE AVAILABLE TO THE CONTRACTOR FOR THE PERFORMANCE OF THIS WORK, PORTIONS OF BUILDING WHICH MAY NORMALLY BE IN USE.

20. CONTINUITY OF EXISTING ELECTRICAL SYSTEMS

A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF POWER, LIGHT COMMUNICATION, SIGNAL, FIRE ALARM AND SECURITY SYSTEM SERVICE TO THE EXISTING BUILDINGS.

B. REFRIGERATION MOTORS SHALL BE KEPT OPERATING AT ALL TIMES, EXCEPT FOR PERIODS OF TIME NOT AGGREGATING MORE THAN TWO HOURS IN ANY ONE DAY AND DURING THE VACATION PERIOD. NOTIFY THE DISTRICT BEFORE DISCONNECTING REFRIGERATION MOTORS.

21. SCHEDULED POWER OUTAGES

COORDINATE AND SCHEDULE ALL OUTAGES WITH THE PRINCIPAL AND SCHOOL DISTRICT'S DIRECTOR OF MAINTENANCE PRIOR TO ANY AND ALL OUTAGES.

22. SAFETY SWITCHES

A. SHALL BE SAME MANUFACTURER AS PANELBOARDS WITH REJECTION TYPE FUSE CLIPS AND DUAL ELEMENT TIME RELAY FUSES AS REQUIRED BY THE DRAWINGS AND LOCKABLE IN THE "OFF" POSITION. HEAVY DUTY TYPE.

B. ALL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING AND/OR BRACING GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE LINE TERMINALS OF THAT EQUIPMENT BUT NOT LESS THAN THE RATING INDICATED.

23. SHOP DRAWINGS

A. WITHIN TEN (10) DAYS AFTER RECEIPT OF CONTRACT, SUBMIT TO ARCHITECT SEVEN (7) COMPLETE SETS OF DRAWINGS FOR ALL ELECTRICAL EQUIPMENT AND DEVICES LISTED BELOW. DO NOT DELIVER THESE ITEMS TO THE JOB SITE UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY ARCHITECT AND ELECTRICAL ENGINEER.

B. SUBMIT DRAWINGS FOR THE FOLLOWING EQUIPMENT:

1) DISTRIBUTION SWITCHBOARD AND CIRCUIT BREAKERS
2) SIGNAL\COMMUNICATION DEVICES
3) FIRE ALARM SYSTEM DEVICES AND EQUIPMENT

SYMBOLS LIST

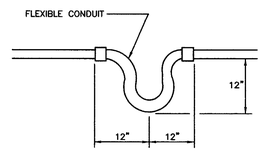
	CIRCUIT BREAKER (SEE SINGLE LINE DIAGRAM).		
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS.		
	CONDUIT RUN BELOW GRADE.		
	"RGS" CONDUIT RUN EXPOSED ON WOOD SLEEPERS.		
	FREE STANDING DISTRIBUTION SWITCHBOARD.		
	FLUSH MOUNTED PANELBOARD. (SEE SINGLE LINE DIAGRAM).		
C.O.	CONDUIT ONLY.	NTS	NOT TO SCALE.
WP	WEATHERPROOF.	UON	UNLESS OTHERWISE NOTED.
GRD.	GROUND.	CU	COPPER.
NIC.	NOT IN CONTRACT	GFI	GROUND FAULT INTERRUPTER
	JUNCTION BOX MOUNTED IN ACCESSIBLE CEILING SPACE.		
M_s	JUNCTION BOX FLUSH MOUNTED IN CEILING FOR SECURITY SYSTEM MOTION SENSOR.		
S_a	FLUSH MOUNTED 277V. 20A. RATED SINGLE POLE TOGGLE SWITCH AT +48" U.O.N. a,b,c, etc. INDICATES LIGHTING FIXTURE CONTROL.		
	FLUSH MOUNTED 125V.,2P.,3W.,15 AMP RATED DUPLEX RECEPTACLE MOUNTED AT +18". U.O.N.		
	FLUSH MOUNTED 125V.,2P.,3W.,15 AMP RATED GFI TYPE DUPLEX RECEPTACLE MOUNTED HORIZONTALLY AT +2" ABOVE SPLASH. U.O.N.		
M	SEMI-FLUSH MOUNTED FIRE ALARM SYSTEM AUDIO/VISUAL ANNUNCIATOR OUTLET +80" TO BOTTOM OF LIGHT U.O.N.		
	FLUSH MOUNTED TELEPHONE HANDSET OUTLET. +48" U.O.N.		
	FLUSH MOUNTED COMPUTER DATA OUTLET AT +18" U.O.N.		
T	1/2"C. WITH 1#22/5 CONDUCTOR CABLE FOR TELEPHONE SYSTEM CABLE.		
FA	SEE FIRE ALARM SYSTEM RISER DIAGRAM.		
D1	1"C.O. FOR DATA SYSTEM CABLING.		

	1/2"C. 2#12		1/2"C. 5#12
	1/2"C. 3#12		3/4"C. 6#10
	1/2"C. 4#12		3/4"C. 7#10

X	ADJACENT TO LIGHT FIXTURE, OUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO REMAIN.
XR	ADJACENT TO LIGHT FIXTURE, OUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO BE REMOVED.
"XA"	WHEN SHOWN ADJACENT TO LIGHT FIXTURE OR OUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO BE ABANDONED. REMOVE DEVICE & INSTALL BLANK PLATE AND PULL WIRES FROM CONDUIT AS REQUIRED.

NOTES:

1. THE ELECTRICAL DRAWINGS INDICATE NEW WORK. EXISTING ELECTRICAL SYSTEMS ARE NOT SHOWN EXCEPT WHERE INTERFACING IS REQUIRED.
2. CONSULT WITH THE DISTRICT'S ELECTRICAL INSPECTOR BEFORE STARTING WORK.
3. THE ELECTRICAL PLANS ARE DEVELOPED FROM AS-BUILT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE CIRCUIT CONTINUITY FOR A WORKABLE SYSTEM.
4. EACH EMPTY CONDUIT SHALL HAVE A PULL CORD INSTALLED IN IT.
5. ALL ELECTRICAL SYMBOLS SHOWN ON SCHEDULES ARE NOT NECESSARILY USED ON THIS PROJECT.
6. VERIFY EXACT LOCATION OF ALL EXISTING ELECTRICAL SWITCHGEAR, SIGNAL CABINETS (TEL/INTERCOM, F.A.,CABLE TV., AND SECURITY) PRIOR TO BID AND INSTALLATION AND NOTIFY SCHOOL DISTRICT OF ANY DISCREPANCY WITH THEIR PLANS.
7. EACH PANELBOARD SHALL BE GROUNDED WITH A 3/4" X 10' LONG COPPER CLAD STEEL GROUND ROD.
8. MAKE ALL FINAL CONNECTIONS TO PANELBOARDS IN PORTABLE CLASSROOMS.



E / E-1 **SEISMIC ISOLATION DETAIL**
NOT TO SCALE

SPECIAL NOTE:
SHALL BE INSTALLED AT EACH ROOF EXPANSION JOINT, CHANGE IN ELEVATION AND AT EACH CONDUIT ENTRY TO BUILDING.

NOTE:
EXISTING ELECTRICAL SERVICE HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS STR SS
DATE MAR 05 2009

THIS IS A COMPLETE AUTOMATIC FIRE ALARM SUBMITTAL

REGISTERED ARCHITECT DAVID L. EVANS No. 19917 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER DAVID L. EVANS No. 19917 Exp. 06/30/09 ELECTRICAL STATE OF CALIFORNIA

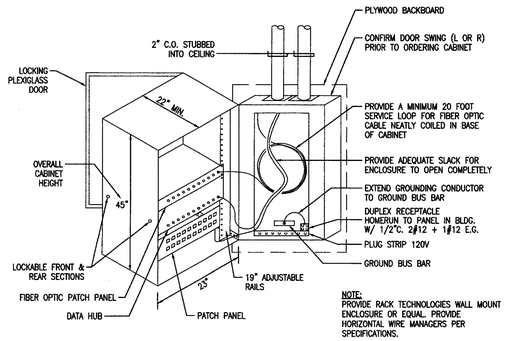
DLE ENGINEERING, INC.
600 West Broadway Suite 250
Glendale, Ca. 91204 (818) 265-9720

SOUTH EL MONTE HIGH SCHOOL
1001 DURFEE AVENUE, EL MONTE, CALIFORNIA
EL MONTE UNION HIGH SCHOOL DISTRICT
SYMBOLS, NOTES AND SPECIFICATIONS

DATE 6-6-08 | JOB NO. - | DRAWN CADD | CHECKED DL EVANS

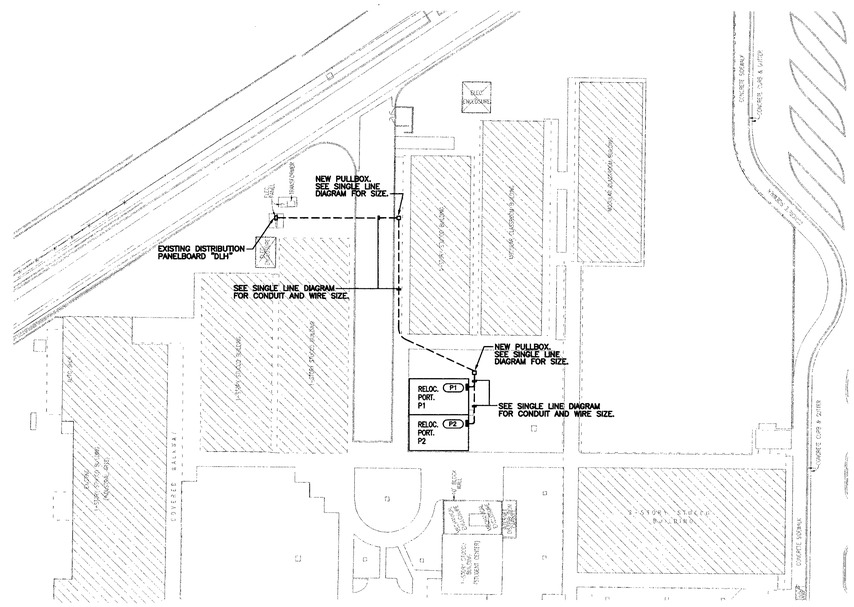
SHEET . OF

ESE-1



IDF BACKBOARD ELEVATION
NO SCALE

D / E-2



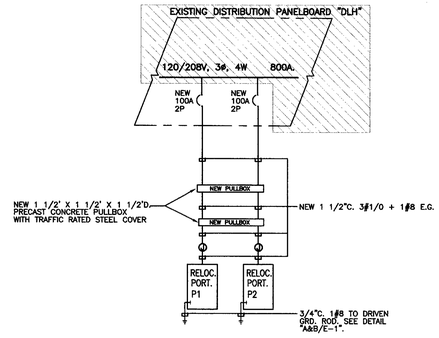
A / E-2 **SITE POWER PLAN**
SCALE: 1"=40'-0"

PANEL IS FURNISHED COMPLETE AS PART OF BUILDING UNIT.

VOLTAGE 120/208V. 1ø, 3W. — **PANEL** P2 — MAIN 100A. 2P

MOUNTING FLUSH — LOCATION BLDG. P2 — BUS SIZE 100A.

LOCATION	OUTLET LTS	OUTLET REC	OUTLET MISC.	VOLT AMPS PH. A	VOLT AMPS PH. B	VOLT AMPS PH. C	CKT BKR	CKT NO.		CKT NO.	CKT BKR	VOLT AMPS PH. A	VOLT AMPS PH. B	VOLT AMPS PH. C	OUTLET LTS	OUTLET REC	OUTLET MISC.	LOCATION
CLASSROOM		9		1620			20	1		2	50	4180						AC-1
CLASSROOM	12				936		20	3		4	/2		4180					AC-1
CLASSROOM	13			1116			20	5		6	20							SPARE
* FA CONTROL PANEL					200		20	7		8	20							SPARE
SPARE							20	9		10	20							SPARE
SPARE							20	11		12	20							SPARE
SPACE								13		14								SPACE
SPACE								15		16								SPACE
SPACE								17		18								SPACE
SPACE								19		20								SPACE
SPACE								21		22								SPACE
SPACE								23		24								SPACE
								25		26								
								27		28								
								29		30								
								31		32								
								33		34								
								35		36								
								37		38								
								39		40								
								41		42								
TOTAL THIS SIDE				2736	1136							4180	4180					TOTAL THIS SIDE
TOTAL BOTH SIDES				6916	5316							12032						TOTAL CONNECTED LOAD
LONG CONTINUOUS LOAD				–								–						LONG CONTINUOUS LOAD @ 125%
* PROVIDE CIRCUIT BREAKER WITH LOCK ON DEVICE.								TOTALS 12KVA. 57.7A.				–						NON CONTINUOUS LOAD @ 100%
												–						NON CONTINUOUS LOAD @



B / E-2 **SINGLE LINE DIAGRAM**
NOT TO SCALE

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AC FLS SPH SSS
DATE MAR 0 5 2009

NOTES:

1. ALL WIRE SIZES SHOWN ARE BASED ON 600V. TYPE THHN/THWN CU.
2. SEE SHEET "A/E-2" FOR LOCATION OF EXISTING DISTRIBUTION PANELBOARDS.
3. PANELBOARD CIRCUIT BREAKERS SHALL HAVE A MINIMUM AIC RATING OF 10,000A. (SYM.).
4. GROUNDING TEST SHALL BE WITNESSED BY SITE INSPECTOR.
5. THE EXISTING POWER DISTRIBUTION SYSTEM HAVE BEEN INVESTIGATED AND HAVE ADEQUATE CAPACITY FOR NEW BUILDING LOADS BEING ADDED.
6. ALL ITEMS SHOWN WITHIN THE HATCH MARKED AREA ARE EXISTING UNLESS OTHERWISE NOTED.

THIS IS A COMPLETE AUTOMATIC FIRE ALARM SUBMITTAL

DE ENGINEERING, INC.
600 West Broadway Suite 250
Glendale, Ca. 91204 (818) 265-9720

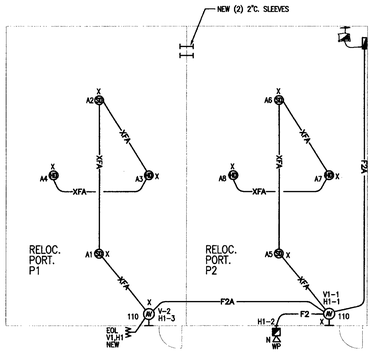
SOUTH EL MONTE HIGH SCHOOL
1001 DURFEE AVENUE, EL MONTE, CALIFORNIA
EL MONTE UNION HIGH SCHOOL DISTRICT
SITE POWER, DEMO PLANS, SINGLE LINE & CALCS.

DATE 6-6-08
JOB NO. -
DRAWN CADD
CHECKED DL EVANS

SHEET . OF

ESE-2

NOTE: ALL WORK SHOWN ON THIS PLAN IS NEW AND PART OF THIS CONTRACT UNLESS OTHERWISE NOTED.



B / E-3 **FIRE ALARM PLAN**
SCALE: 1/8"= 1'-0"

NOTE:
SEE FIRE ALARM RISER DIAGRAM THIS SHEET FOR ALL "FA" CONDUIT AND WIRE SIZE.

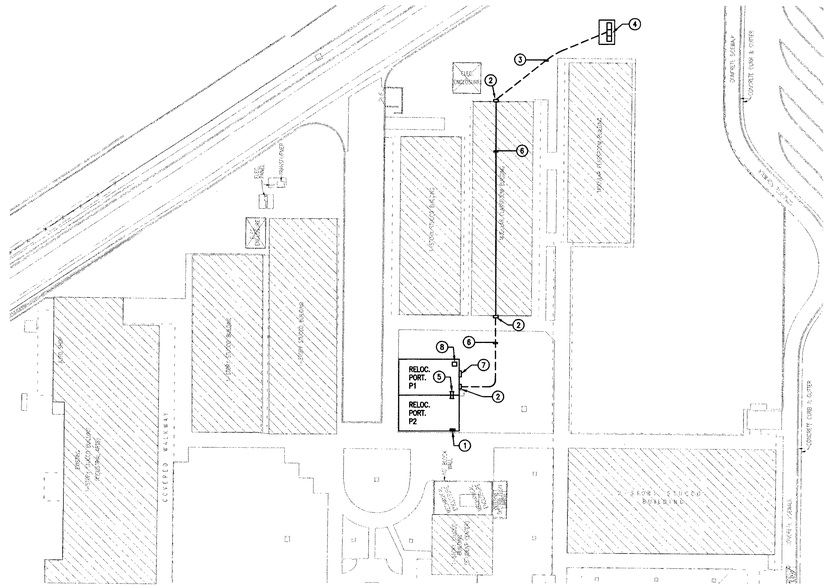
REFERENCE NOTES:

1. NEW FIRE ALARM CONTROL PANEL. FIRELITE MS-9000 UD.
2. NEW 24"SQ. X 8"D. NEMA 3R ENCLOSURE.
3. EXISTING SIGNAL/COMMUNICATION UNDERGROUND CONDUIT. INSTALL NEW MULTI-MODE FIBER OPTIC CABLE.
4. EXISTING FREESTANDING IDF IN NEMA 3R ENCLOSURE.
5. NEW (2) 2"C. SLEEVES.
6. NEW:
   2"C. WITH MULTI-MODE FIBER OPTIC CABLE.
   2"C. WITH 1-15 PAIR TEL. CABLE
   AND 1-5 PAIR INTERCOM CABLE
   2"C.O. (SPARE)
7. NEW 36"SQ. X 8"D. NEMA 3R ENCLOSURE WITH LOCKABLE HINGED DOOR, 3/4" PLYWOOD BACKBOARD, TELEPHONE PUNCH DOWN BLOCKS AND PA SYSTEM TERMINAL CONNECTORS MOUNTED INSIDE.
8. NEW IDF.
9. PROVIDE WIRING AS REQUIRED FOR TELEPHONE, PA/SPEAKER & DATA SYSTEM AS FOLLOWS:

   TELEPHONE SYSTEM -(1) #22/4 CONDUCTOR CABLE FROM EACH CLASSROOM BLDG. TO PUNCH DOWN BLOCKS IN 36"SQ. X 8"D. ENCLOSURE ON BLDG. P1.

   PA/SPEAKER SYSTEM-(1) #22/5 PAIR CABLE. CABLE SHALL DAISY CHAIN FROM BLDG. SPEAKER TO BLDG. SPEAKER FROM 36"SQ. X 8"D. ENCLOSURE ON BLDG. P1

   DATA SYSTEM -(5) CAT 6 CABLES FROM EACH CLASSROOM BLDG. BACK TO EXISTING FREESTANDING. EACH CAT 6 CABLE SHALL HAVE 50' OF SLACK COILED IN CEILING SPACE FOR EXTENSION AND TERMINATION IN WIREMOLD 5400 SURFACE RACEWAY.



A / E-3 **SITE FIRE ALARM AND SIGNAL PLAN**
SCALE: 1"=40'-0"

GENERAL NOTE:

1. CONTRACTOR SCOPE OF WORK REQUIRED FOR THE INSTALLATION OF PORTABLE CLASSROOM SHALL INCLUDE BUT NOT BE LIMITED TO:
   A. ALL EXISTING SIGNAL WIRING TO EACH EXISTING PORTABLE SHALL BE REUSED IN THIS CONTRACT AND CONTRACTOR SHALL MAKE ALL RECONNECTIONS OF EXISTING WIRING TO NEW REPLACEMENT PORTABLE CLASSROOM BUILDING FOR A COMPLETE AND OPERABLE BUILDING SIGNAL SYSTEM.
   B. ALL EXISTING F.A. ALARM WIRING TO EACH EXISTING PORTABLE SHALL BE REUSED IN THIS CONTRACT AND CONTRACTOR SHALL MAKE ALL RECONNECTIONS OF EXISTING WIRING TO NEW REPLACEMENT PORTABLE CLASSROOM BUILDING FOR A COMPLETE AND OPERABLE BUILDING FIRE ALARM SYSTEM.

CENTRAL MONITORING STATION
MONITOR SOUND & SECURITY SYSTEM
13079 GARVEY AVENUE
BALDWIN PARK, CA 91706
(626) 968-3291
UL #223586-001
ID # S6037-1

BATTERY CALCULATION "FACP"

	DEVICE	#	CURRENT STANDBY A.	CURRENT ALARM A.	TOTAL STANDBY A.	TOTAL ALARM A.
EXTERIOR (110cd)	HORN	1	0	.041	0	.041
	HORN/ STROBE	2	0	.174	0	.348
	SMOKE/HEAT	8	.0003	.0003	.0024	.0024
	SYNC MODULE	1	0	.035	0	.035
	FACP	1	.025	.08	.025	.08
			TOTAL STANDBY CURRENT		.027	
				TOTAL ALARM CURRENT		0.506

ALARM CURRENT X ALARM TIME /60 = AMP/HR FOR ALARM
0.506 X 5/60 =0.042AMP HR.
STANDBY CURRENT X 24 HRS = AMP/HR FOR ALARM
.029 X 24 = .648 AMP HR.
TOTAL = .69 AMP HR.
BATTERY SIZE = 7 AMP HR.

VISUAL CIRCUIT V1: 2 VISUAL DEVICES (110cd) @ .174A. EACH = .348 A

$$\frac{.348A \times 200' \times 21.5}{6530\ (\#12)} = 0.229\ VD$$

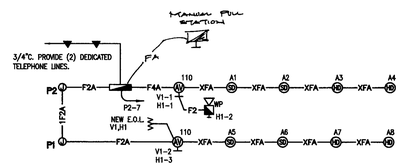
$$\frac{0.229VD}{24V.} \times 100 = .95\%$$

WORST CASE VOLTAGE DROP CALCULATION

LEGEND

- NEW FIRE ALARM CONTROL PANEL FIRELITE MS-9050 UD CSFM #7165-0075:208
- AV H / 110 — EXISTING AUDIO VISUAL DEVICE-SYSTEM SENSOR SPECTRALERT-P2R (110 CANDELA) CSFM #7125-1653:188
- H WP — NEW WEATHERPROOF HORN DEVICE-SYSTEM SENSOR HRK WITH WEATHERPROOF BACKBOX CSFM #7135-1653:189
- S — EXISTING PHOTOELECTRIC SMOKE DETECTOR-FIRELITE SD355T(A) CSFM #7272-0075:194
- HD — EXISTING HEAT DETECTOR-FIRELITE H355R RATE OF RISE CSFM #7270-0075:195

1FA – 1"C. 2#18/2 TWISTED PAIR
FA – 1/2"C. 2#18/2 TWISTED PAIR
F1 – 1/2"C. 2#12
F1A – 1/2"C. 2#12 + 2#18/2 TWISTED PAIR
F2 – 1/2"C. 4#12
F2A – 1/2"C. 4#12 + 2#18/2 TWISTED PAIR
1F2A – 1"C. 4#12 + 2#18/2 TWISTED PAIR
1F4A – 1"C. 8#12 + 2#18/2 TWISTED PAIR
F3 – 1/2"C. 6#12
F3A – 1/2"C. 6#12 + 2#18/2 TWISTED PAIR
F4 – 3/4"C. 8#12
F4A – 3/4"C. 8#12 + 2#18/2 TWISTED PAIR
XFA – EXISTING 1/2"C. 2#18/2 TWISTED PAIR



C / E-3 **FIRE ALARM RISER DIAGRAM**
NTS

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AC FLS
DATE MAR 0 5 2009

THIS IS A COMPLETE AUTOMATIC FIRE ALARM SUBMITTAL

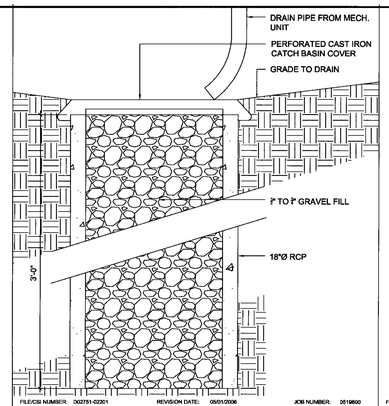
DE ENGINEERING, INC.
600 West Broadway Suite 250
Glendale, Ca. 91204(818) 265-9720

SOUTH EL MONTE HIGH SCHOOL
1001 DURFEE AVENUE, EL MONTE, CALIFORNIA
EL MONTE UNION HIGH SCHOOL DISTRICT
SITE SIGNAL, FA, TYPICAL PLANS, RISER DIAG. CALCS.

DATE 6-6-08
JOB NO. -
DRAWN CADD
CHECKED DIL EVANS

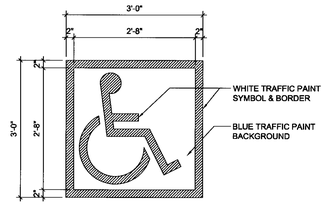
SHEET . OF

ESE-3



FILE/CSI NUMBER: D02751-02201 REVISION DATE: 05/01/2006 JOB NUMBER: 0519600

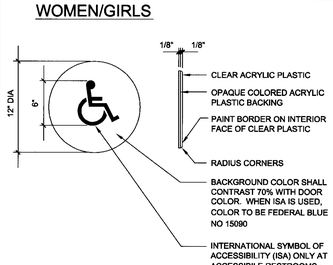
21 **DRY WELL** 1 1/2"=1'-0"



NOTES:
1. ALL STROKES TO BE 2" WIDE
2. PROVIDE TWO (2) COATS OF TRAFFIC PAINT
3. LOCATE SYMBOL AT CENTER OF STALL WHERE SHOWN ON SITE PLAN

FILE/CSI NUMBER: XD32-002 REVISION DATE: 04/03/2002 JOB NUMBER: JOB NUMBER

17 **ACCESS SYMBOL** N.T.S.

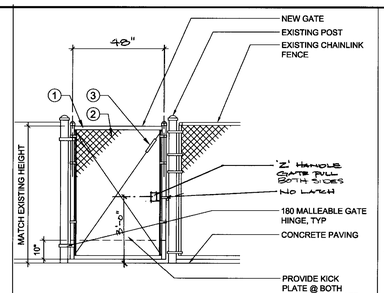


NOTE:
ATTACH SIGNS USING THREE FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE CENTERED ON THE DOOR AND MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO CENTER OF SIGN.

FOR SIGNAGE TEMPLATES, SEE DETAIL 11/-
FOR MOUNTING DETAILS, SEE DETAIL 15/-

FILE/CSI NUMBER: D10000-03101 REVISION DATE: 05/30/06 JOB NUMBER:

13 **RESTROOM SYMBOL** 1 1/2"=1'-0"

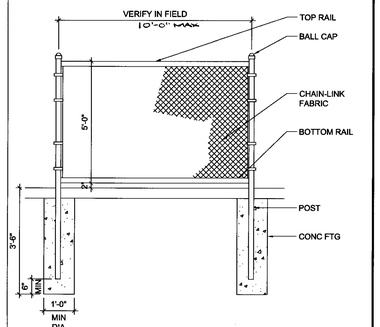


NOTES:
1. 2" OD GALV STL GATE FRAME (2.72 LB/FT)
2. 2" x 2" MESH x 9 GA GALV FENCE FABRIC WITH KNUCKLED TOP & BOTTOM
3. GALV AJUSTABLE TURNBUCKLE FOR 3/8" DIA TRUSS ROD

NOTE:
PROVIDE SHOP DRAWINGS FOR FULLY FUNCTIONING GATE AND FENCE ASSEMBLIES. DETAIL DRAWINGS ARE GENERIC IN NATURE AND DO NOT SHOW ALL PARTS NECESSARY, BUT REQUIRED

FILE/CSI NUMBER: FILE NUMBER REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

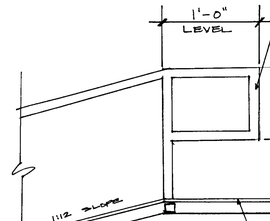
9 **SINGLE GATE** 3/8"=1'-0"



FILE/CSI NUMBER: D02000-04022 REVISION DATE: 04/01/2006 JOB NUMBER: JOB NUMBER

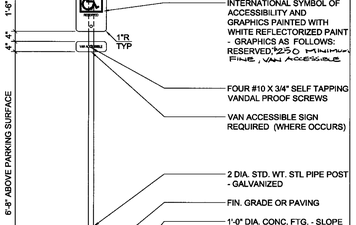
5 **CHAIN LINK FENCE** 1/2"=1'-0"

1



FILE/CSI NUMBER: D02751-02201 REVISION DATE: 05/01/2006 JOB NUMBER: 0519600

22 **CONCRETE WHEEL STOP** 1 1/2"=1'-0"

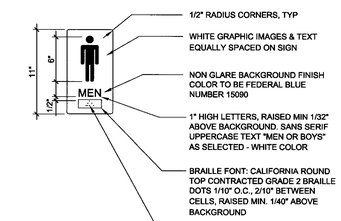


NOTE: PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.

FOR SIGNAGE TEMPLATES, SEE DETAIL 11/-
FOR MOUNTING DETAILS, SEE DETAIL 15/-

FILE/CSI NUMBER: D10000-10101 REVISION DATE: 05/30/06 JOB NUMBER:

14 **ROOM CONTROL SINAGE** 3"=1'-0"

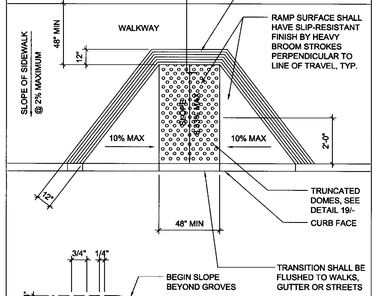


NOTE:
ATTACH SIGNS USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO THE CENTERLINE OF THE SIGN ON THE STRIKE SIDE OF THE DOOR.

FOR SIGNAGE TEMPLATES, SEE DETAIL 11/-
FOR MOUNTING DETAILS, SEE DETAIL 15/-

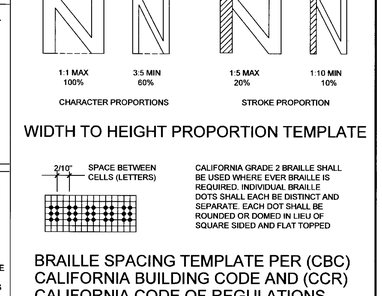
FILE/CSI NUMBER: D10000-04101 REVISION DATE: 05/30/06 JOB NUMBER:

10 **WALL MTD RESTRM SIGN** 1 1/2"=1'-0"



FILE/CSI NUMBER: D10000-16101 REVISION DATE: 05/30/06 JOB NUMBER:

6 **SIGNAGE MOUNTING DETAIL** 6"=1'-0"



FILE/CSI NUMBER: D02751-02201 REVISION DATE: 05/01/2006 JOB NUMBER: 0519600

2 **TYPICAL CONCRETE SLAB** 1 1/2"=1'-0"

FILE/CSI NUMBER: D02751-02201 REVISION DATE: 05/01/2006 JOB NUMBER: 0519600

23 **TRUCTED DOMES** 1 1/2"=1'-0"

FILE/CSI NUMBER: D10000-21201 REVISION DATE: 05/01/2006 JOB NUMBER: 0423700

15 **TOW AWAY SIGN** 1/2"=1'-0"

NOTE:
ATTACH SIGNS USING THREE FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE CENTERED ON THE DOOR AND MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO CENTER OF SIGN.

FOR SIGNAGE TEMPLATES, SEE DETAIL 11/-
FOR MOUNTING DETAILS, SEE DETAIL 15/-

FILE/CSI NUMBER: D10000-07101 REVISION DATE: 05/30/06 JOB NUMBER:

11 **RESTROOM SYMBOL** 1 1/2"=1'-0"

NOTE: PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.
FOR SIGNAGE TEMPLATES, SEE DETAIL 11/-
FOR MOUNTING DETAILS, SEE DETAIL 15/-

FILE/CSI NUMBER: D10000-21101 REVISION DATE: 05/30/06 JOB NUMBER:

7 **TACTILE EXIT SIGN** 3"=1'-0"

FILE/CSI NUMBER: D02751-02201 REVISION DATE: 05/01/2006 JOB NUMBER: 0519600

3 **TYPICAL CONCRETE SLAB** 1 1/2"=1'-0"

24 HANDRAIL DETAIL

20

FILE/CSI NUMBER: XD02-004 REVISION DATE: 04/11/2004 JOB NUMBER: JOB NUMBER

16 **PARKING SIGN** 1/2"=1'-0"

NOTE:
ATTACH SIGNS USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO THE CENTERLINE OF THE SIGN ON THE STRIKE SIDE OF THE DOOR.

FOR SIGNAGE TEMPLATES, SEE DETAIL 11/-
FOR MOUNTING DETAILS, SEE DETAIL 15/-

FILE/CSI NUMBER: D10000-08101 REVISION DATE: 05/30/06 JOB NUMBER:

12 **WALL MTD RESTRM SIGN** 1 1/2"=1'-0"

A GROOVE DETAIL

FILE/CSI NUMBER: FILE NUMBER REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

8 **CURB RAMP DETAIL** 1/4"=1'-0"

FILE/CSI NUMBER: D10000-15101 REVISION DATE: 05/30/06 JOB NUMBER:

4 **SIGNAGE TEMPLATES** FULL

DESIGN GROUP, INC.
Architects
2559 LUNES
LA VERNE, CA 91750

ARROYO/SO. EL MONTE HIGH PORTABLES

EL MONTE UNION HIGH SCHOOL DISTRICT
EL MONTE, CALIFORNIA

LICENSED ARCHITECT
REGISTRATION EXPIRATION DATE 08/31/2009
STATE OF CALIFORNIA

CONSULTANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 03-112317
AC FLS SPH SS
DATE MAR 05 2009

NO	DATE	BY	DESCRIPTION
			REVISIONS

DRAWN: RA	CHECKED: MP
DATE: JUNE, 2008	SCALE: AS NOTED
PROJECT NUMBER: 08102	

DETAILS

DRAWING NUMBER: 2.1

American Modular Systems Inc.

200-24 X 40 RELOCATABLE CLASSROOMS
WILLIAMS SCOTSMAN

TEST AND INSPECTION LIST

TESTING LABORATORY: _____ DATE: _____

NAME: 200 BUILDING STOCKPILE 24x40'S 04-904-120 THRU 04-904-319

DISTRICT/OWNER: WILLIAMS SCOTSMAN

DIVISION-FILE NO. 39-0 APPLICATION NO. _____

ARCHITECT: JOHN H. LAWDER

STRUCTURAL ENGINEER: _____

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

STRUCTURAL
TESTS
AND
INSPECTIONS

ORS 103-1 (R 11/85)

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

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

SUITABILITY TESTS	CONCRETE MATERIALS	GUNITE	MORTAR	GROUT
Sodium sulphate				
Structural strength				
Los Angeles rattler				
Clay (Hydrometer method)				
Reactivity tests				
Volume change				

MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE

MATERIAL	MAXIMUM SIZE	COMPRESSIVE STRENGTH, PSI, MINIMUM 28 DAYS
CONCRETE	1 1/2"	2500
CONCRETE	1 1/2"	3500

List of structural steel members to be tested:

3 1/2" x 3 1/2" x 1/4" SQ. COL.
C7X9.8
10 ga. & 12 ga. ROOF CEE
6 7/8" X 14 GA. FL. JOISTS 6"x14 ga. ROOF JOIST
6 7/8" x 12 ga. ALT. FL. JOIST 4"x12 ga. ALT. ROOF JOIST
3 1/2" x 10 ga. ALT. ROOF JOIST
2"x16" ga. STRAPS
3"x18" ga. ALT. STRAPS

TESTING MAY BE WAIVED IF STEEL HAS BEEN PROPERLY IDENTIFIED BY MFR'S MILL ANALYSIS AND TEST REPORTS PER TITLE 24, C.C.R., SECTION 2231.A.1

Other Tests and Inspections, together with special instructions:

GROUNDING TEST
EXPANSION ANCHORS
EPOXY ANCHORS

Copies of Reports to:

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

By: _____
AUTHORIZED REPRESENTATIVE

INDEX

SHEET No.	DESCRIPTION
TS-1	TITLE & BUILDING DATA NOTES
N-1	GENERAL NOTES AND SPECIFICATIONS
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2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS AND NOTES
4	INTERIOR ELEVATIONS AND OPTIONS
S1	WOOD FOUNDATION PLAN & DETAILS 50 PSF FLOOR LIVE LOAD
~~S1D~~	~~CONCRETE FOUNDATION PLANS~~ ~~50 PSF FLOOR LIVE LOAD & 100 PSF LIVE LOAD~~
~~S1F~~	~~CONCRETE FOUNDATION DETAILS~~
S2	FLOOR FRAMING PLAN AND DETAILS
S2A	BUILDING SECTIONS AND WALL DETAILS
S3	ROOF FRAMING PLANS AND DETAILS
S3A	ROOF SECTIONS & DETAILS
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M1	MECHANICAL PLAN & NOTES
M2	ENERGY MANDATORY MEASURES
E1	ELECTRICAL PLAN & NOTES

BUILDING DATA

CLASSROOMS

SERIAL NO.s 04-904-120 THRU 04-904-319

OCCUPANCY	E-1/B → B OCCUPANCY USES TO MEET THE REQUIREMENTS OF CBC TABLE 3-A AND CBC TABLE 5-A
TYPE OF CONSTRUCTION	V - NON-RATED
WIND LOAD (80 MPH EXPOSURE C)	21 LBS/SQ FT
FLOOR LIVE LOAD	50 LBS/SQ FT
ROOF LIVE LOAD	20 LBS/SQ FT (REDUCIBLE) THIS STRUCTURE IS DESIGNED TO SUPPORT A FIRE SPRINKLER SYSTEM
RAMP LIVE LOAD	100 LBS/SQ FT
BUILDING AREA	960 SQ FT
CLIMATE ZONES	1-16

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 CALIFORNIA 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 IAPMO 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

MODULES	MOMENT-RESISTANT
SYSTEM	(2) 12' X 40' MODULES
FOUNDATION	WOOD OR CONCRETE
SEISMIC	ZONE 4 SEISMIC SOURCE A DISTANCE FROM SEISMIC SOURCE ≤ 2 KM SOIL TYPE S_e

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC AA FLS CS SS
DATE MAR 0 5 2009

REGISTERED PROFESSIONAL ENGINEER
JOHN H. LAWDER
No. 2310
EXPIRATION 6-30-05
STATE OF CALIFORNIA

CBC 2001

FILE NO. 39-0
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-106166
AC AA FLS CS SS
DATE 4/13/04 (Shirley Fong)

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

BASED ON PC 02-104915

JOB NO.	
DATE: MARCH 31, 2004	
SHEET NUMBER	TS-1
BINDING ORDER	1

GENERAL NOTES AND SPECIFICATIONS

SECTION 1A — GENERAL REQUIREMENTS

1. GENERAL

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

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

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

2. SCOPE OF WORK

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

B. ALL REQUIREMENTS OF TITLES 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING,MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
5. ADDENDUMS SHALL BE SIGNED BY THE ARCHITECT & APPROVED BY D.S.A.
6. CHANGE ORDERS SHALL BE SIGNED BY THE OWNER & ARCHITECT & APPROVED BY D.S.A.
7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE DESIGNER/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
13. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", THIS PAGE.

    FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.
14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQ. BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALY RECOGNIZED TESTING LABORATORY.

FOUNDATION

1. ASSUMED ALLOWABLE SOIL BEARING: 1000 PSF.
2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED FIRM NATURAL SOIL, APPROVED COMPACTED FILL OR ON AN APPROVED PAVED SURFACE.

NOTE:THE FOUNDATION SYSTEM PRESENTED HEREIN COMPLIES WITH INTERPRETATION OF REGULATIONS, IR 16-1, ISSUED BY DIVISION OF THE STATE ARCHITECT FOR TEMPORARY BUILDINGS. THIS FOUNDATION SYSTEM IS NON-CONVENTIONAL AND THE STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY FOR ITS CONSTRUCTION OR LONGEVITY.

3. WORK NOT INCLUDED

A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.

B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM,INTERCOM SYSTEM,TV,TELEPHONE SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.

4. WHEELS AND HITCH

SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

5. ACCESSIBILITY OF SITE

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

TRIM/ FINISH NAILING

DESCRIPTION	SET	SIZE	LENGTH	FINISH
SIDING		.131	2 1/4"	GALV
CASING, SILL & INT. CORNER TRIM	X	16g	1 1/4"	N
2X FASCIA		.131	3"	GALV
SOFFIT		.131	2 1/4"	GALV
1X EXT. TRIM, WINDOWS, EXT. DOORS, EXT. TRIM		.113	2"	GALV

SECTION 5. STEEL

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

B. CBC SECT. 22134.4.1 SEE 1/S4
WELDING - ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24,PART 2,CCR, SECTION 2231.A.5 WELDING ELECTRODE SHALL BE E70XX.

1. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A-36 & A-570 GR.36 ~~UNLESS OTHERWISE NOTED.~~
2. PIPE COLUMNS SHALL COMFORM TO A.S.T.M. A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05%.
3. STEEL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE B OR A.S.T.M. A579 GRADE 50 FOR GAUGE TUBING-TYP. U.N.O.
4. STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.

C. ERECTION - STRUCTURAL STEEL ERECTED TRUE,STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.

D. NAILS,BOLTS, SCREWS AND NUTS ETC.- FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.

1. BOLTS FOR STRUCTURAL STEEL JOINTS SHALL CONFORM TO A.S.T.M. A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR MACHINE AND CARRIAGE BOLTS THROUGH STEEL TO BE DRILLED, OR TORCH PILOT HOLE AND REAM MIN. 1/16" TO CORRECT SIZE. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER.

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

F. SHOP PAINT

1. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
2. NON-EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.PRIME ALL EXPOSED STEEL SURFACES AFTER FIELD WELDING.

G. TESTS

1. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER T-24 PART 2,CCR SECTION 2231.A.1.

SECTION 6A — CARPENTRY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL CARPENTRY

2. MATERIALS

LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 17 OF WEST COAST LUMBER INSPECTION BUREAU, OR "GRADING RULES FOR LUMBER,3RD EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION OR W.C.L.I.B.. PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-95 FOR SOFTWOOD PLYWOOD,OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH CBC EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO.

A. JOISTS, PLATES, STUDS-DOUGLAS FIR OR HEM FIR S4S #2 U.N.O. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.

B. HEADERS,POSTS AND TIMBERS-DOUGLAS FIR S4S #1

C. BLOCKING - DOUG FIR #3,OR HEM FIR #3,OR STD. & BET.

D. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE,MASONRY OR EARTH, DOUG FIR #2 PRESSURE TREATED IN ACCORDANCE WITH CBC 1811.7 EACH PIECE SHALL BEAR AWPB STAMP. LP-22 GROUND CONTACT,D.F.#2 ABOVE GROUND.

E. PLYWOOD ROOF DECKING - SEE S3

F. PLYWOOD FLOOR DECKING - APA STURD-I-FLOOR 2-4-1 OR UNI-FLOOR BY PITTSBURGH TESTING LAB, 1-1/8"NOM. TONGUE AND GROOVE FLOOR SHEATHING, WITH EXTERIOR GLUE.

G. EXTERIOR SIDING/SHEATHING - APA TYPE 303,EXTERIOR. OR HARDIPANEL FIBER CEMENT SIDING AS MFG. BY JAMES HARDIE BUILDING PRODUCTS NER-405 REPORT

H. MOISTURE BARRIER - KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, UBC STANDARD 14-1 FOR KRAFT, 15-1 FOR FELT.

J. STUDS - DOUG FIR #2 OR HEM FIR #2 MOISTURE CONTENT NOT OVER19%.

K. FASTENERS - ALL NAILS SHALL BE CORROSION RESISTANT PER C.B.C. 2318A.3.4 COMMON NAILS-FOR EXT. SIDING & FNDN. ONLY.

L. BUILDING TRIM - 2X RESAWN SELECT D.F.,H.F.,OR CEDAR

M. DOOR/WINDOW TRIM - 1X4 REWAWN D.F.,H.F.,OR CEDAR.

N. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.

O. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 708.

P. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED.

Q. FOUNDATION LUMBER: ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".

3. WORKMANSHIP

A. FRAMING - SECURELY NAILED,BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBELED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.

B. NAILING - IN ACCORDANCE WITH TITLE 24,PART 2, CALIFORNIA BUILDING CODE,TABLE 23A-11-B-1

C. EXTERIOR WALLS - FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS,SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.

D. MACHINE APPLIED NAILING:
USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.
MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

E. MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.

F. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7B — SHEET METAL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.

2. MATERIALS

A. SHEET METAL - INSULATED STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A526. MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.

B. SOLDER - OF STAND,GRADE "A" OF EQUAL PARTSARD BRAND LEAD AND TIN ASTM B32.

C. FLUX - ZINC SATURATED MURIATIC ACID.

D. GUTTERS: 26 GA. G-90 GALV. STEEL.
DOWNSPOUTS: 2"X3" CONVOLUTED 30 GA. G-90 GALV. STEEL.
GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL.
GUTTER CLIPS: 18 GA. G-90 GALV. STEEL

3. WORKMANSHIP

SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES. CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7C — METAL ROOFING

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. TEST RESULTS SHOWING THE ROOFING SYSTEM WILL WITHSTAND THE UPLIFT OF A 80 MPH WIND SHALL BE SUBMITTED WITH THE PLANS AND SPECIFICATIONS.

2. MATERIALS

A. ROOFING - 3" INCH STANDING SEAM 22-GAUGE G-90 GALV. INTERLOCKING SHEET STL PANELS (G90).

B. ROOFING: CLASS B FIRE RATING

SECTION 7J — SEALANT

1. SCOPE OF WORK

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

2. MATERIALS

VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.

3. WORKMANSHIP

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

SECTION CONCRETE — CONCRETE (IF USED)

1. CONCRETE MORTAR AND RELATED MATERIALS TO CONFORM TO APPLICABLE PROVISIONS OF TITLE 24 EXCEPT AS MODIFED HEREIN.
2. REINFORCEING BARS:ASTM A615 OR ASTM A706 DEFORMED GRADE 40 BILLET STEEL.
3. EXPANSION JOINT FILLER: ASTM D994
4. FORM MATERIALS: SIDE FORMS DOUGLAS FIR, CONSTRUCTION GRADE OR BETTER: OR METAL FORMS.
5. PLACING REINFORCEMENT, PLACING CONCRETE SUFACE FINISHES, CURING AND REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF TITLE 24, PART 2.

ACCESSIBILITY STANDARDS

CALIFORNIA BUILDING CODE (PART 2, TITLE 24, CCR)
SEC. 1103B.1 BUILDING ACCESSIBILITY, GENERAL.
THE 2001 CBC REQUIRES THAT BUILDINGS EXCEEDING 10,000 SQUARE FEET ON ANY FLOOR MUST HAVE AN ACCESSIBLE MEANS OF VERTICAL ACCESS VIA RAMP, ELEVATOR, OR LIFT WITHIN 200 FEET OF TRAVEL OF EACH STAIR AND EACH STAIR AND EACH ESCALATOR.
TABLE 1115B-1 SUGGESTED DIMENSIONS FOR CHILDREN'S USE.
THE 2001 CBC REQUIRES A 27" MINIMUM DIMENSION FOR LAVATORY/SINK KNEE CLEARANCE, WICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK. THE 1998 CBS INCORRECTLY SPECIFIED A 29" MAXIMUM DIMENSION FOR LAVATORY/SINK KNEE CLEARANCE.
SECTION 1115B.7.1 (3) ACCESSIBLE WATER CLOSET COMPARTMENT.
THE 2001 CBC REQUIRES AN ACCESSIBLE TOILET STALL TO HAVE A MINIMUM WIDTH OF 60". THE 1998 CBSC SPECIFIED A MINIMUM WIDTH BASED ON PRESCRIBED TOILET FIXTURE CLEARANCES TO THE STALL SIDEWALLS, AND GENERALLY RESULTED IN A MINIMUM STALL WIDTH OF 57".
SECTION 1115B.6.2.4.1 WATER CONTROLS
THE 2001 CBC REQUIRES THAT THE FORCE TO OPERATE AWATER CONTROL (VALVE) FOR AN ACCESSIBLE SHOWER SHALL NOT EXCEED 5LBS. MAXIMUM FORCE (PULL). THE 1998 CBSC DID NOT ADDRESS THIS ISSUE.
Section 1117B.5 Signs and Identification (also refer to Sections 1003.2.8.1, 1003.2.8.2, 1003.2.8.4, 1003.2.8.5, 1003.8.6, 1003.2.8.1, 1003.3.3.13.1, 1003.3.1.10.)
The 2001 CBC makes several general design changes and clarifications to signage from the 1998 CBCS provisions:
*All ground floor exit door shall have tactile exit signage.
*At stairs, each floor shall receive tactile "stair level" signage in addition to special tactile at the exit discharge level.
*Each exit door that leads to a grade level exit by menas of a stairway shall have tactile exit signage.
*Each exit access door to a corridor or hallway that is required to have a visual exit sign shall be identified by tactile exit signage.
Section 1129B.4 (1), (2), (3) Accessible Parking Required.
The 2001 CBC requires the words "NO PARKING", in 12" height white letters, to be painted on the pavement within all parking space access aisles. Van parking access aisles shall be placed on the passenger side of the vihicle. Ramps may not encroach into any required access aisle. Parking space access aisles shall not exceed 2% slope in any direction.*
*Existing Sites:
At existing sites, any ramp which exceeds a 2
access aisles for accessible parking spaces per CBCS Section 1129B, may required removal and redesign per the path of travel (POT) provisions of CBCS Section 1134B, in order to approve the building placement.
Section 1133B.2.5 Closer Effort to Operate Doors.
The 2001 CBC requires that the effort to open an exterior (+INTERIOR) door shall not exceed 5 pounds (pull).
~~The 1998 CBC allowed a maximum pull effort of 8.5 punds.~~
Section 1133B.2.5 Door Closer.
The 2001 CBC requires that the sewep period of accessible doors shall be 3 seconds maximum, based on an open door position of 70 degreees (from closed), to a door position of 3" from the latch.
Sections 1133B.2.4.5 & 1133B.2.5.3 Recessed Doors.
The 2001 CBC requires that doors recessed 8" or more shall have strike edge clearances in accordance with Figure 11B-33 (a).
Section 1133B.4.2.6.2 Handrail Orientation.
The 2001 CBC specifies that at least one handrail shall be parallel to the direction of the stair run, and perpendicular to the edge of the stair nosing.
Section 1133B.2.4.5 Ramp Width.
The 2001 CBC requires that sign edges less than 80" above the finished floor must contain rounded or eased radius of 0.125" mimum.
California Building Standards Administrative Code (Part 1, Title 24, CCR)
Chapter 5, Articles 2, 3, & 4; California Building Code (Part 2, Title 24, CCR) Sections 1102A.3-C, 117A.4.7, 1102B, 1127B.5 (8), 1131B.4, 113B.8.3, 1133B.8.4, 1133B.8.5).
Detectable Warnings.
The 2001 CBCSAC requires that detectable warnings shall be evaluated and approved by DSA, and that only DSA-approved products shall be installed. Refer to the attached DSA Bulletin: Independent Entity Evaluation and Approval of Detectable Warnings and Directional Surfaces dated October 31, 2002.
The project plans or specifications shall indicate the requirement that the manufacturer shall provide a written five-year product warranty, in accordance with the Bulletin.

SECTION 8B — HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK

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

2. MATERIALS

A. DOORS - INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY,18 GA. 1 3/4" THICK PER CS242 MIN,REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.

B. FRAMES - 16 GA COLD ROLLED,2" FACES, CS242 MIN.3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX,PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.

3. WORKMANSHIP

ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARDP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP,WAVE,BUCKLE OR OTHER DEFECTS AFTER FABRICATION,DOORS AND FRAMES CLEANED THOUROUGHLY,ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

FINISH HARDWARE

SEE SHEET 1

SECTION 9E — PAINTING

1. SCOPE OF WORK

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

2. MATERIALS

A. FOR EXTERIOR WOOD:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	42-9M	1240	Y24W20	289-N
FINISH	QD-60-XX	1240-XXX	B54WZ102	GE2-NXX

B. FOR INTERIOR TRIM

REF. BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
FINISH	W450-XX	1650-XXX	A26W11	40XX

C. FOR METAL

REF. BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	43-4	1710	B50NZ6	15N
FINISH	10-XX	1700-XXX	B54WZ102	GE2-NXX

3. WORKMANSHIP

ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.

A. EXTERIOR - WOOD SIDING, TRIM AND SKIRTING FLAT OR SEMI-GLOSS LATEX - APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.

B. INTERIOR TRIM - TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.

C. INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.

D. METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.

E. RAMP - ONE COAT OF FERROX NON-SLIP SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. (0.7 MIN. C.O.F.) ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST FOR MAINTENANCE PAINTS 8010-91G-98A DATED JULY 1989. OR EQIAL.

F. SUBMIT ONE SET COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 13F — SITE ASSEMBLY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT . UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. ASSEMBLY OF ELEMENTS

A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT,(APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.

B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.

C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

NOTE:

WALL FINISH MATERIAL
FLAME SPREAD MAX = 200
SMOKE DENSITY MAX = 450
BUILDING INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450
PIPE INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450
DUCT INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 50

SECTION 15A — AIR CONDITIONING

1. SCOPE OF WORK (SEE SHEET M-1 FOR HVAC SPEC. AND NOTES)

CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.

2. EQUIPMENT

SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.

3. WORKMANSHIP

UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 16A — ELECTRICAL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS,LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.

2. MATERIALS

ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE AND NATIONAL FIRE PROTECTION ASSOCIATION

A. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX- GALV. STEEL W/ FACTORY APPLIED P.V.C. JACKET.

B. PANELBOARDS - FLUSH MOUNTED.

C. CONDUCTORS - COPPER,INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES.MINIMUM SIZE- #14.

D. RECEPTACLES - AS NOTED. +18" A.F.F. MIN.

E. CLOCK RECEPTACLE - AS NOTED.

F. SWITCHES - AS NOTED. +48" A.F.F. MAX.

G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.

3. WORKMANSHIP

MATERIALS AND EQUIPMENT INSTALLED IN A SECURE,NEAT WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANELBOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BLDG TO SITE TERMINATION BY SITE CONTRACTOR(N.I.C.).(FLEXIBLE CONDUIT S-BEND SEALTITE)

INSPECTION

INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS.

1. IN-PLANT INSPECTION.
2. ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE WHEN OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY OR FROM THE STORAGE FACILITY TO THE SITE THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM SSS-6). A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

COORDINATION OF WORK

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT,IF NECESSARY.
THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF AY MODULE.
ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED,UNLESS OTHERWISE SPECIFIED,SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE ARCHITECT THAT SUCH IS THE CASE.

CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS:

TWO (2) APPROXIMATELY 12' X 40' MODULES DESIGNED SO THAT TWO MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH AN IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAG 3"X1 -1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

1. MANUFACTURER'S BUILDING NUMBER.
2. DESIGN WIND LOAD / EXPOSURE
3. DESIGN ROOF LIVE LOAD
4. DESIGN FLOOR LIVE LOAD
5. D.S.A. APPLICATION NUMBER.

2-TAGS PER MODULE ONE ON EXTERIOR AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

EACH 12' X 40' MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

DIMENSIONS

THE BUILDINGS SHALL OCCUPY AN AREA OF 960 SQUARE FEET WITH A TOLERANCE OF MINUS 5 SQUARE FEET. THE BUILDINGS SHALL BE 24' X 40'. ALL BUILDINGS SHALL MEET THE SQUARE FOOTAGE REQUIREMENT. LINEAR DIMENSIONS SHALL BE VERTICAL TRIM FINISH LINE TO VERTICAL TRIM FINISH LINE.

FASCIA AND REQUIRED OVERHANGS ARE NOT INCLUDED IN THE CALCULATION OF THE SQUARE FOOTAGE THE BUILDING OCCUPIES. THE ENTRANCE WALL SHALL HAVE A 5' MINIMUM ROOF OVERHANG. THE REAR WALL SHALL HAVE A MINIMUM 2' OVERHANG. FULL LENGTH GUTTERS AND DOWNSPOUTS SHALL BE FURNISHED ON THE SIDES OF EACH OVERHANG AND EACH ROOF EDGE WHERE DRAINAGE OCCURS. THE INTERIOR HEIGHT,FLOOR TO CEILING SHALL BE 8'-6" U.O.N. THE MODULE SHALL BE CLEAR SPAN TYPE EXCEPT AS PROVIDED FOR IN THE BID SPECIFICATIONS NOTHING SHALL PROTRUDE MORE THAN 1" BELOW THE CEILING LEVEL.

ITEMS NOTED AS N.I.C. (NOT IN CONTRACT) OR "BY OTHERS" IS THE RESPONSIBILITY OF THE SCHOOL DISTRICT DEPENDING ON THE AGREEMENT WITH DISTRICT.

IN THE EVENT OF CONFLICT BETWEEN THESE SPECIFICATIONS AND THE DISTRICT BID SPECIFICATIONS, THE DISTRICT SPECIFICATIONS SHALL PREVAIL.

REGISTERED PROFESSIONAL ENGINEER — JOHN H. LAWDER — No. 2310 — STRUCTURAL — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC N.N. FLS [illegible] SS
DATE MAR 0 5 2009

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 106166
AC [illegible] FLS [illegible] SS [illegible]
DATE 4/13/04

FILE NO. PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-104915
AC [illegible] FLS [illegible] SS [illegible]
DATE JUL 2 2 2003

24 X 40
RELOCATABLE
CLASSROOMS

AMS
American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

LICENSED ARCHITECT — RANDALL PATRICK CAVANAGH — No. C 12631 — Ren. 3-31-05 — STATE OF CALIFORNIA

CUSTOMER:

GENERAL NOTES AND SPECIFICATIONS

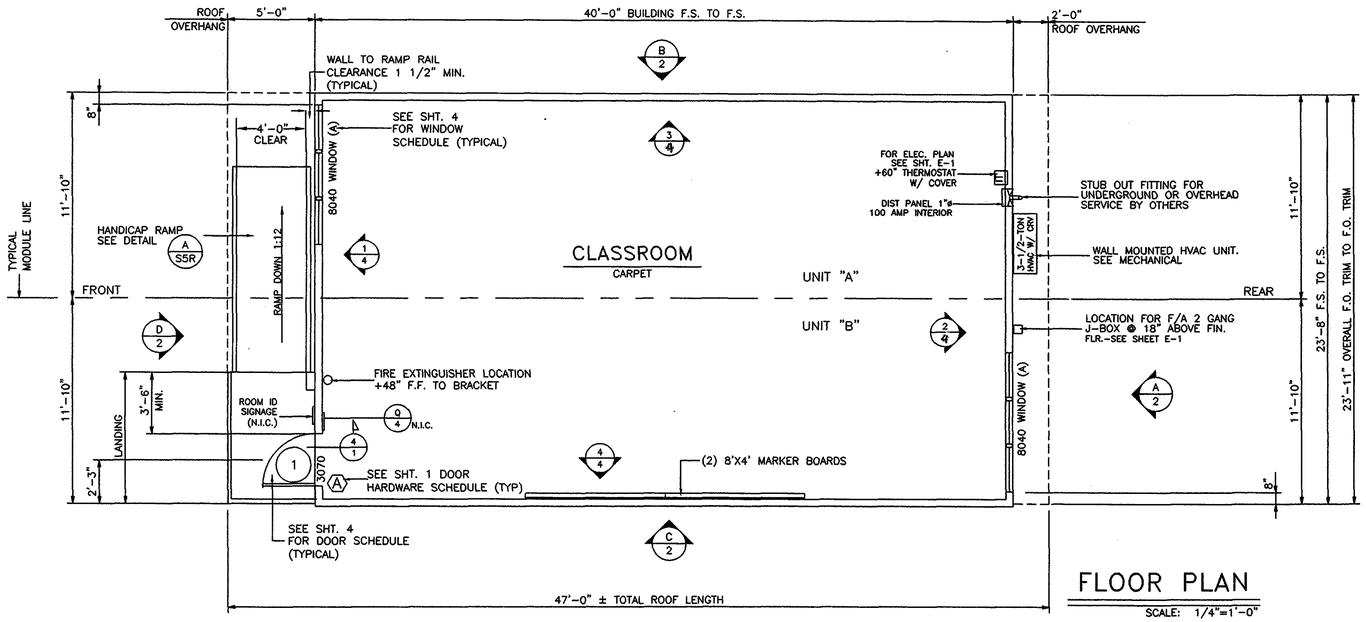
DATE:	04-28-08
SCALE:	NONE
DRAWN BY:	M.H.
CHECKED BY:	
CHECKED BY:	
SERIAL NO.	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
△			△		
△			△		
△			△		
△			△		

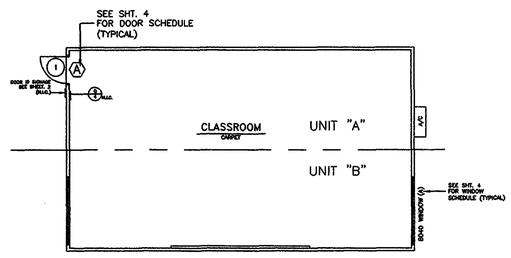
PROJECT No.

SHEET No.
N-1



FLOOR PLAN

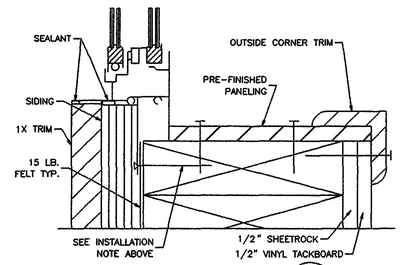
SCALE: 1/4"=1'-0"



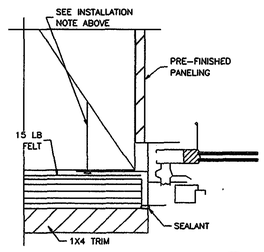
OPTIONAL FLOOR PLAN

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

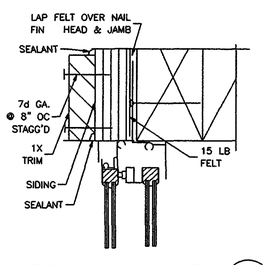
TYPICAL EXTERIOR WINDOW INSTALLATION NOTE:
SEE MANUF. SPECS FOR INSTALLATION
USE .131" X 2 1/2" @ 16" O.C. VERTICALS
USE .131" X 2 1/2" @ 24" O.C. HORIZONTALS



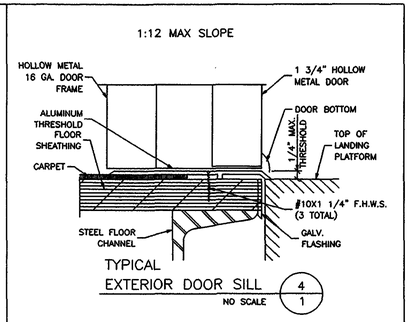
TYPICAL WINDOW SILL DETAIL 1/1 — NO SCALE



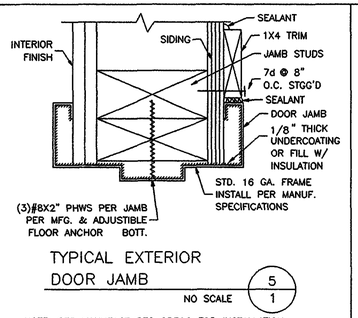
TYPICAL WINDOW JAMB 2/1 — NO SCALE



TYPICAL WINDOW HEAD 3/1 — NO SCALE

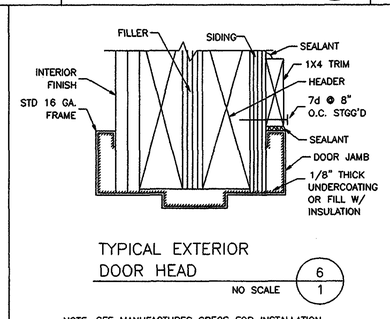


TYPICAL EXTERIOR DOOR SILL 4/1 — NO SCALE



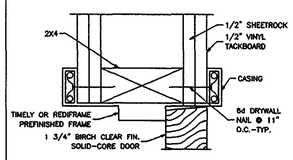
TYPICAL EXTERIOR DOOR JAMB 5/1 — NO SCALE

NOTE: SEE MANUFACTURES SPECS FOR INSTALLATION.

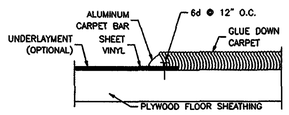


TYPICAL EXTERIOR DOOR HEAD 6/1 — NO SCALE

NOTE: SEE MANUFACTURES SPECS FOR INSTALLATION.



TYPICAL INTERIOR DOOR HEAD/JAMB 7/1 — NO SCALE



FLOORING DETAIL 8/1 — NO SCALE

NOTES
INTERIOR

1. Floor: Carpets – Units shall be carpeted as indicated on floor plan with direct glue down type per State of California Specification 7220-XXX-01, Group 1, Type A, Class 26. Color will be selected by District after award of bid. The carpet density shall be 4600 minimum. Pile yarn shall be branded nylon. No cross seams shall be allowed.
2. Base: Resilient Cove Base – Best quality, moulded rubber, 1/8" thick, 4" high, moulded top set Cove: Provide preformed base for square external corners and preformed end stops where base does not abut. Solid color as manufactured by "Johnsonite Co." Flexco, or equal. Apply cove to complete perimeter of classroom.
3. Interior walls shall be vinyl covered tackboard U.N.O. applied in one continuous length from floor to ceiling. The tackboard shall be industrial insulation board manufactured specifically as a substitute for vinyl covered wall panels. The board shall be asphalt free, shall have an ironed-on coating and shall have a minimum density of 18 lbs. per ft. The vinyl coating shall be made of virgin vinyl calendered base color, weighing a minimum of 8 oz. per square yard. The coating backing shall be sheeting or non-woven fabric. The vinyl coating shall be mechanically laminated, with the long edges wrapped, to the tackboard. Tackboard shall be applied over 1/2" sheetrock or 3/8" plywood sheathing. The vinyl wall covered panel shall have a Class III flame spread rating. The panel shall be approved for classroom use by The California State Fire Marshal. Reference brand: Vinyl covered tackboard as manufactured by Chatfield-Clarke or comparable. Care shall be taken in mounting the tackboard so that the texture of all panels will have the same orientation and color match.
4. Ceiling: Suspend T-Bar System, see sheet 3 for details etc. Materials and installation per CBC 2501.A.5 and IR #M-3 inclusive as applicable to classrooms.

DOORS & WINDOWS

Exterior Doors: Metal Doors – 3'-0"x7'-0" hollow metal door construction of 1 sheet of 18 ga. steel assembled per CS242 min and reinforced. (Reinforce both faces for closure) provide flush top on doors. Hardware reinforcement shall be 10 ga. min. for hinges, door frame shall be 16 ga. pressed steel frame ASTM A366 & C5242. Hardware reinforcement shall be 10 ga. plate. Frames shall be designed with integral stop and trim. Provide (3) anchors per jamb.

Interior Doors: 3'-0"x7'-0" Birch clear finish solid core door.

Exterior Windows: Provide anodized aluminum frame 5/8" minimum dual pane window units, as shown on floor plans. The 5/8" dimension is the minimum thickness for the dual glazed window panel consisting of two lights of glass and the air space. Glazing materiel shall be:

Exterior Lite – 3/16" minimum tempered glass or laminated as – 1 glass of solar grey glare reducing type with a light transmission factor of 45% maximum.

Interior Lite – 1/8" minimum clear tempered.

Minimum air space shalle be 1/4".
Space – Bent or sealed corner aluminum with desiccant
Sealer – Butyl primary seal and polysulfide of silicone secondary seal.

Certification – All glazing to be certified in accordance with ASTM E-773, E-774.

Header height shall be the same as the door. All operable sash shall have aluminum screens. Windows shall not be mounted to the exterior plywood surface. All windows shall meet the AAMA QS101-88 voluntary spec. For aluminum prime windows and sliding glass (ANSI), commercial grade.

DOOR HARDWARE SCHEDULE

(A)	EXTERIOR DOOR LOCKSET W/ LEVER RHODES SCHLAGE D70PD
(B)	INTERIOR PASSAGE LOCK SCHLAGE AL10 W/ SATURN LEVER
(C)	INTERIOR PRIVACY LATCH SCHLAGE A40S W/ SATURN LEVER

Exterior Door
A) Hinges: Hager 4-1/2X4-1/2 butts, 881279 US26D,1-1/2 pair each door with set screw in barrel and ball bearing design
C) Closer: Norton 8500DA or 8500BF series, LCN 1460 Del series or equal. (5 lbs. max. pressure)
D) Weatherstripping: All exterior doors shall be weatherstripped with Pemko 2990, Ultra WS207, at door jambs and head or equal.
E) Threshold: Threshold shall be Pemko 271 AV 5" aluminum with Pemko 216 AV Ultra TH042 door bottom.

FIRE EXTINGUISHER

1. Each portable classroom shall be equipped with pressure type fire extinguishers with 2A10BC UL rating. To be mounted on the interior wall of the building near the doorway(s) at a height of 4 feet to mounting bracket. Fire extinguishers shall be totally charged and have a dial indicating the state of charge.

MARKERBOARD SPECIFICATIONS

Chalkboards(standard) shall have green facing sheet.
Markerboards(extra cost option)
Markerboards shall be 5 mil thick melamine facing sheet suitable to accept dry erase felt markers. The facing sheet shall be laminated, using hot melt adhesive, to a medium density particleboard substrate with a minimum density of 45#/c. ft. The panel shall have a foil backing. The panels shall have extruded aluminum molding and chalkroll with a minimum of 2-15/16" projection from the face of the panel. A full length map rail shall be provided with cork insert and end stops. The map rail and chalkroll are to incorporate a channel to wrap around the panel. Three (3) map hooks, with clips, perpanel shall be provided. One flag holder, 1/2" size, shall be provided for each classroom. Each classroom shall be 2 sec. 4x8 panels installed side by side to make a 4x16 panel, centered on one of the long walls. Referenced brand: Chatfield-Clarke Co. series 500. Attach directly to studs and blocking W/#8x3" oval head wood screw @ 32" o.c. horizontally and @ 24" o.c. vertically.

REGISTERED PROFESSIONAL ENGINEER — JOHN H. LANDER — No. 2310 — Exp. 3-31-05 — STRUCTURAL — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 0 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2009

FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-106166
AC FLS SS
DATE 04/13/04

BASED ON PC 02-104915

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

CUSTOMER:
WILLIAMS SCOTSMAN
SERAIL NO.s #04-904-120 THRU 04-904-319

FLOOR PLAN & NOTES

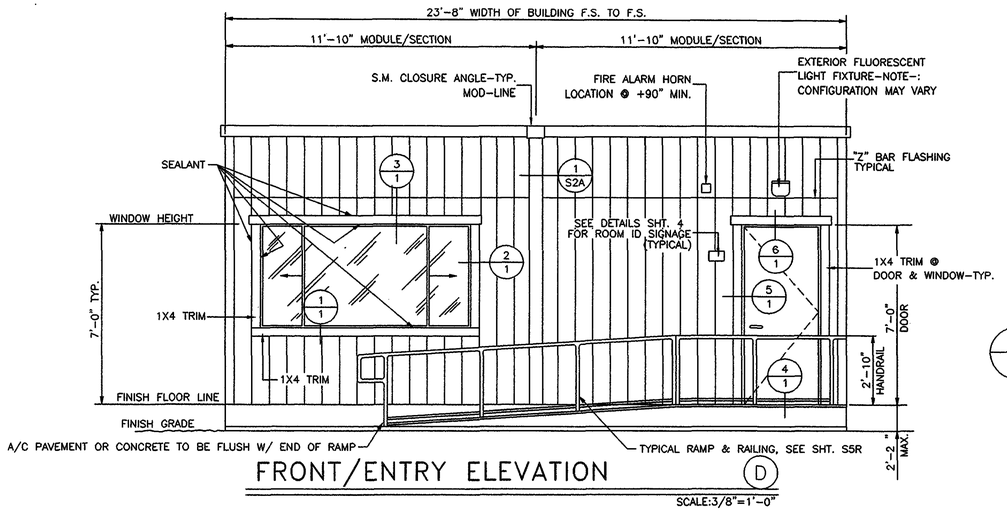
DATE: 03-30-04
SCALE: NONE
DRAWN BY: Y.A.
CHECKED BY: "
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			5		
2			6		
3			7		
4			8		

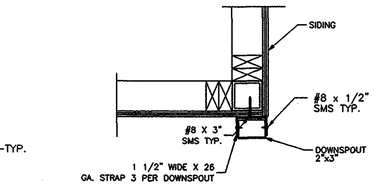
PROJECT No.

SHEET No. 1



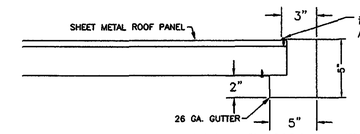
FRONT/ENTRY ELEVATION (D)

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



3/2 DOWNSPOUT DETAIL

1 1/2"=1'-0"



GUTTER: 26 GA., G-90 GALV. STEEL, FASTENED W/ #8 x 3/4" S.M.S. @ 48" O.C. MAX.
DOWNSPOUT: 2"x3" G-90 30 GA. CONVOLUTED GALV. STEEL
DOWNSPOUT STRAPS: 26 GA. STEEL X 1 1/2" WIDE ATTACHED TO BLDG. MAX. 6'-0" O.C.

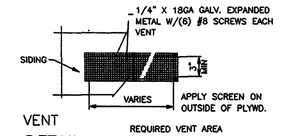
2/2 GUTTER AT OVERHANG DETAIL

ROOM ID SIGNAGE

SEE SHEET 4 DETAILS E/4 & 1/4

NOT A PART OF THIS CONTRACT (NOT PROVIDED BY A.M.S.)

NOTE:
ROOM IDENTIFICATION SHALL BE PROVIDED FOR ROOMS OR SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH THE FOLLOWING: CONTRACTED GRADE 2 BRAILLE SHALL BE USED. DOTS SHALL BE 1/10 INCH ON CENTER IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM 1/40 INCH ABOVE BACKGROUND. SIGNS SHALL BE INSTALLED ON WALL ADJACENT TO LATCH OUTSIDE OF DOOR. WHERE THERE IS NO SPACE ON THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTER OF THE SIGN.

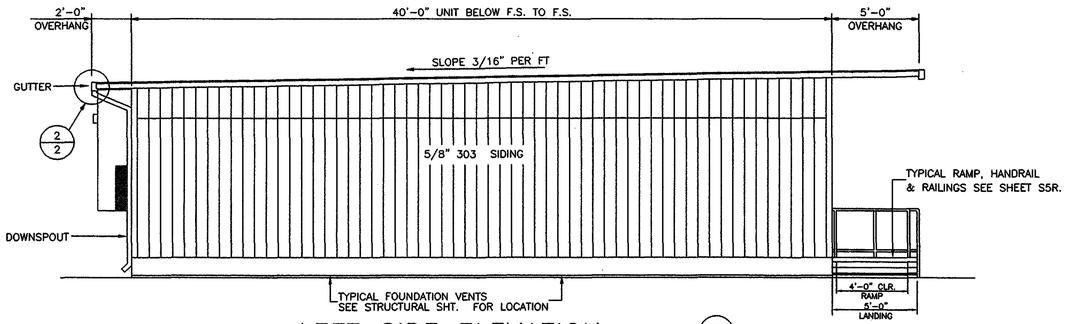


VENT DETAIL

REQUIRED VENT AREA = 6.4 SQ. FTG.

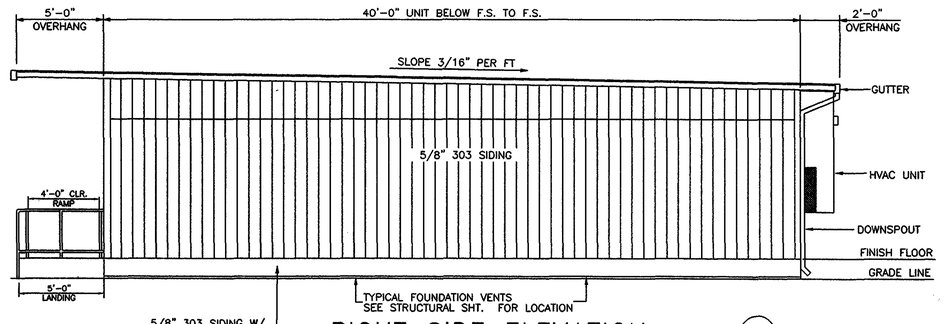
NO SCALE

SEE SHT. S1A, S1B OR S1C FOR NUMBER OF VENTS AND LOCATIONS. THIS DETAIL IS FOR WOOD FOUNDATIONS ONLY.



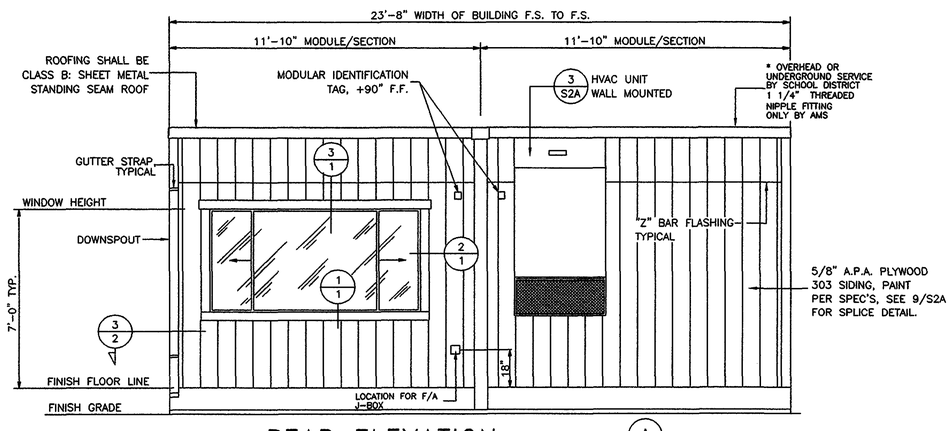
LEFT SIDE ELEVATION (B)

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



RIGHT SIDE ELEVATION (C)

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



REAR ELEVATION (A)

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

REGISTERED PROFESSIONAL ENGINEER JOHN H. LAWLER No. 23109 Exp. 3/31/05 STRUCTURAL STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC. FLS. SS
DATE MAR 0 5 2009

FILE NO.
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
02-106166
AC. FLS. SS
DATE 4/13/04

BASED ON PC 02-104015

24 X 40 RELOCATABLE CLASSROOMS

American Modular Systems Inc.
787 Sprockels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

CUSTOMER:
WILLIAMS SCOTSMAN
SERIAL NO.S #04-904-120 THRU 319

EXTERIOR ELEVATIONS

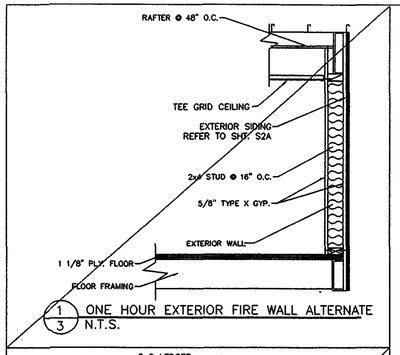
DATE: 03-30-04
SCALE: NONE
DRAWN BY: Y.A.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

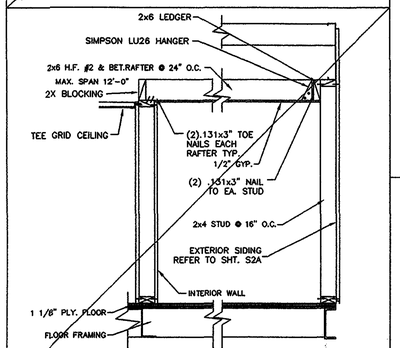
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			5		
2			6		
3			7		
4			8		

PROJECT No.

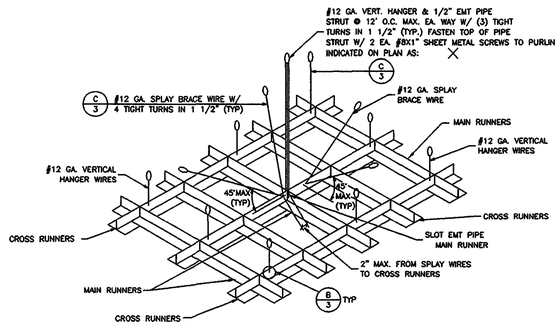
SHEET No. 2



1/3 ONE HOUR EXTERIOR FIRE WALL ALTERNATE
N.T.S.

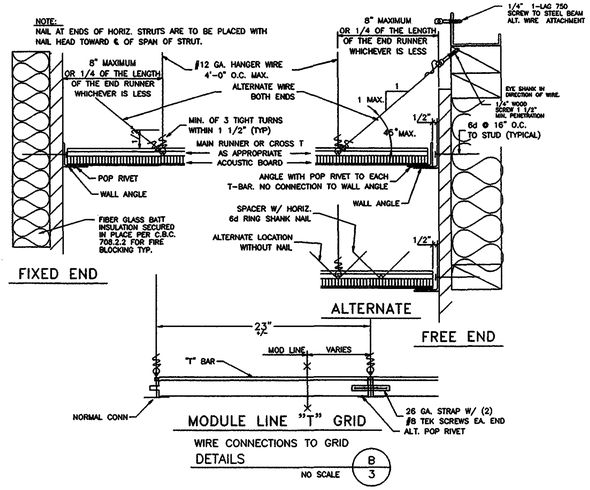


2/3 RESTROOM SHEET ROCK CEILING – ALTERNATE
N.T.S.

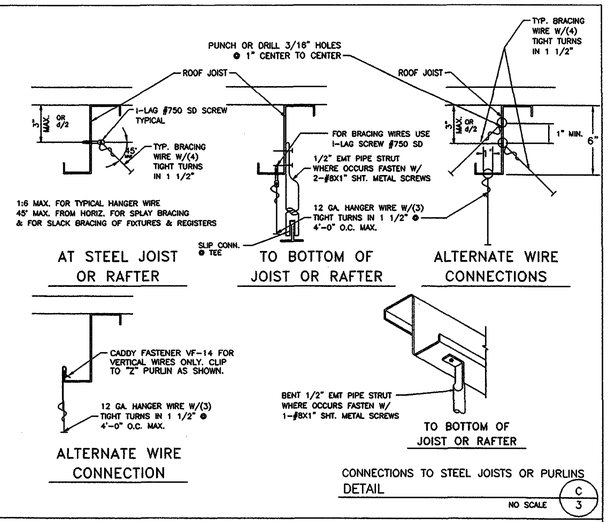


NOTE: SPLAYED BRACING WIRES SHALL BE SPACED NOT MORE THAN 12 FT. ON CENTER. OR MORE THAN 6 FT. FROM WALLS.

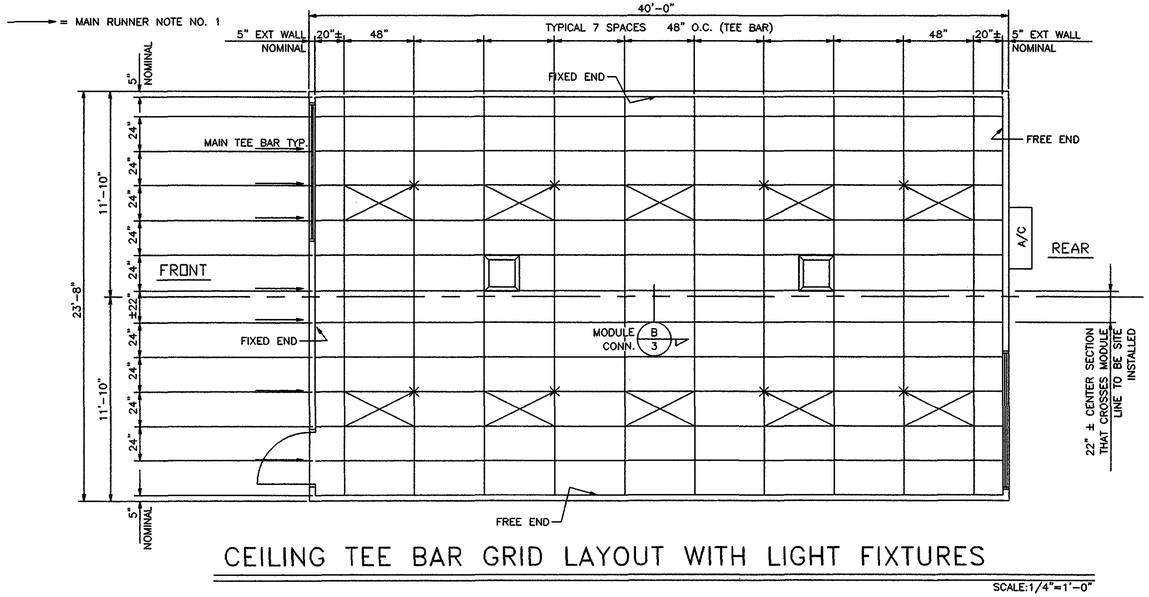
ATTACHMENT FOR CEILING GRID DETAIL
NO SCALE
A/3



WIRE CONNECTIONS TO GRID DETAILS
NO SCALE
B/3



CONNECTIONS TO STEEL JOISTS OR PURLINS DETAIL
NO SCALE
C/3



CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES

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

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

1. 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.
2. PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
4. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
5. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
6. PROVIDE SETS OF 4-#12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
   (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
   (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS

THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.

7. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
8. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC., IT IS ACCEPTABLE TO ATTACH LIGHT-WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA.
9. ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
10. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
11. CLASSIFICATION OF CEILING GRID:
    CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" PER ASTM C635
    MANUFACTURER'S CATALOG NUMBER – MAIN RUNNER HEAVY DUTY MAIN TEE OR EQUAL PER TABLE A.
    MANUFACTURER'S CATALOG NUMBER – CROSS RUNNER PER TABLE A.

    MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE N/A.
    ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS 1, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

TABLE A HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE
DONN/USG	DX-26	DX-424	DX-218
ARMSTRONG	7301	7341	7323
CHICAGO MET.	200-01	1204-01	1226-01

NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER

REGISTERED PROFESSIONAL ENGINEER JOHN R. LANDIS No. 2310 Exp. 3/31/06 STRUCTURAL STATE OF CALIFORNIA

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AC. FLS SS
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BASED ON PC 02-104915

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems Inc.
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CUSTOMER:
WILLIAMS SCOTSMAN
SERAIL NO.s #04-904-120 THRU 04-904-319

CEILING GRID, DETAILS AND NOTES

DATE: 03-30-04
SCALE: NONE
DRAWN BY: Y.A.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

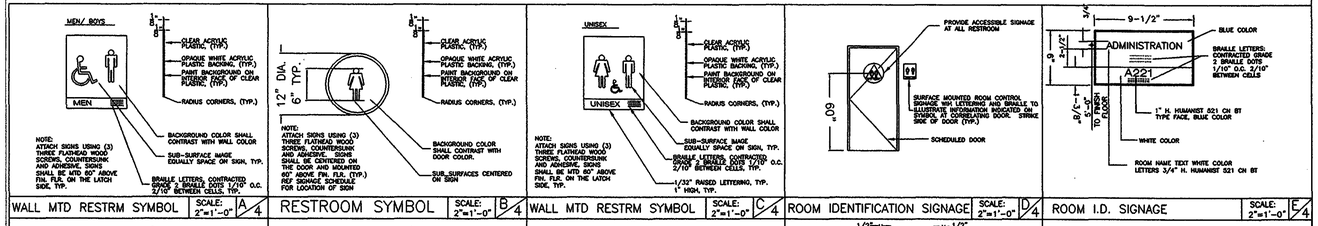
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			5		
2			6		
3			7		
4			8		

PROJECT No.

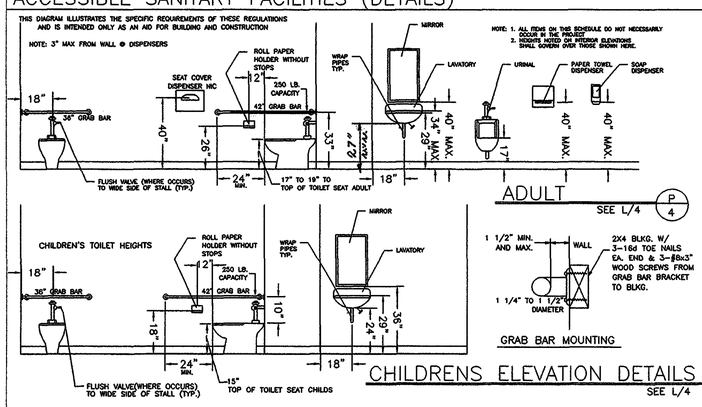
SHEET No. 3

ACCESSIBILITY SIGNAGE (AS REQUIRED–BY. DISTRICT)

NOTE:
PER CBC 1115.B.5 1–10 PLACE 12" ROUND OR TRIANGULAR SIGNS ON EACH TOILET ROOM DOOR @ +80" ON THE WALL ON THE LATCH SIDE OF DOOR FRAME. THIS SIGN SHALL READ AS FOLLOWS.



ACCESSIBLE SANITARY FACILITIES (DETAILS)

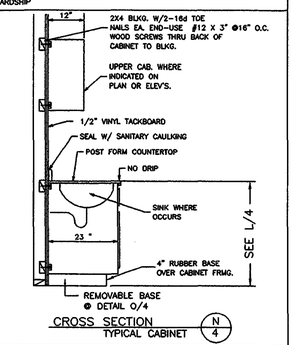


DIMENSIONS FOR ACCESSIBILITY IN TOILET FACILITIES

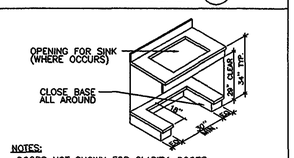
L 4

FIXTURE TYPE	ADULT (AGE 12 AND OVER) DIMENSION	ELEMENTARY DIMENSION	KINDERGARTEN & PRE-SCHOOL DIMENSION
TOILET CENTERLINE FROM WALL	18"	15"	12"
TOILET SEAT HEIGHT (TO TOP OF SEAT)	17"–19"	15"	10"–12"
GRAB BAR HEIGHT	33"	33"	10" ABOVE SEAT *
TOILET PAPER IN FRONT OF TOILET	12" MAX.	12" MAX.	6" MAX. **
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX.	N/A	N/A
DISPENSER OR MIRROR HEIGHT	40" MAX.	36" MAX.	32" MAX.
LAVATORY/SINK TOP HEIGHT	34" MAX.	29" MAX.	24" MAX.
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.
URINAL LIP HEIGHT	17" MAX.	15" MAX.	10" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	36" MAX.	28" MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.	31" MAX.	24" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.
RAMP/STAIR HANDRAIL HEIGHT	34"–38"	27"	22"

* = ABOVE SEAT
** = DEVIATES FROM CODE REQUIREMENTS AND REQUIRES A WRITTEN FINDING OF UNREASONABLE HARDSHIP



CROSS SECTION
TYPICAL CABINET
N 4



NOTES:
- DOORS NOT SHOWN FOR CLARITY. DOORS ARE TO BE PROVIDED.
- MODIFY BASE AS SHOWN FOR WHEELCHAIR ACCESS.
- ALL EXTERIOR SURFACES TO BE PLASTIC LAMINATE.

CROSS SECTION
ACCESSIBLE CABINET
N.T.S.
O 4

ROOM FINISHES SCHEDULE

ROOM NUMBER	ROOM NAME	FINISHES: FLOOR	BASE	WALLS: FRONT	WALLS: REAR	WALLS: RIGHT	WALLS: LEFT	CEILING	CEILING HEIGHT	REMARKS
1	CLASSROOM	A	D	F	F	F	F	J	8'-6"	
2	TOILET RM. (OPTIONAL)	B	E	I	I	I	I	J	8'-6"	

A – CARPET PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600, DIRECT GLUE DOWN.
B – VINYL SHEET FLOORING
C – VCT. ARMSTRONG STANDARD OR EXCELON
D – TOP SET BASE. 4" BURKE
E – TOP SET BASE. 6" BRINGANTINE OR SANDOVAL
F – WALL FINISH. 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING
G – 1/2" W.R. GYP BOARD, TAPE, TEXTURE, PAINTED FINISH
H – 1/2" GYP BOARD, TAPE, TEXTURE, PAINTED FINISH
I – 3/32" F.R.P. OVER 1/2" W.R. GYP BOARD
J – ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATIONS)
K – 1/2" VINYL TACKBOARD CLASS 1 OVER 5/8" TYPE "X" GYP BOARD BACKING

DOOR SCHEDULE SEE SHT. 1 FOR LOCATION

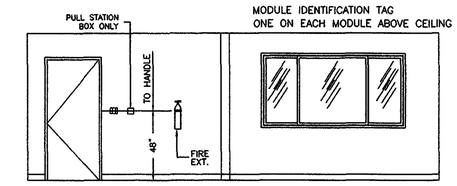
DOOR NO.	FRAME OPENING SIZE	MATERIAL	TYPE	FIRE RATING	HARDWARE SET NO.	QUANTITY	FRAMES: MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	JAMB THROAT	NOTE NO.
1	3'-0" x 7'-0"	H.M.		N/A	A	1	H.M.	6/1	6/1	4/1	5/1	
2	3'-0" x 7'-0"	S.C.		N/A	C	1	H.M.	7/1	7/1			

HM – HOLLOW METAL
AL – ALUMINUM
SST – STAINLESS STEEL
STL – STEEL FRAME. 16 ga. FULLY WELDED
WWF – WINDOW WALL FRAME
SC – SOLID CORE WOOD
HC – HOLLOW CORE WOOD

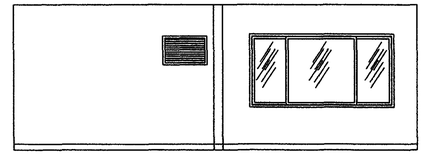
WINDOW SCHEDULE SEE SHT. 1 FOR LOCATION

WINDOW NO.	AMT.	TYPE	WIDTH	HEIGHT	FINISH	GLASS TYPE
(A)	2	SLD.	8'-0"	4'-0"	BRONZE	SOLAR GREY

Exterior Lite – 3/16" minimum tempered gloss or laminated as – 1 gloss of solar gray glare reducing type with a light transmission factor of 45% maximum.

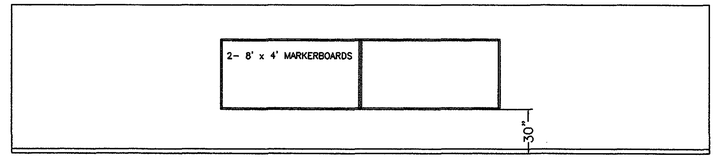


1/4 INTERIOR ELEVATIONS
1/4" = 1'-0"

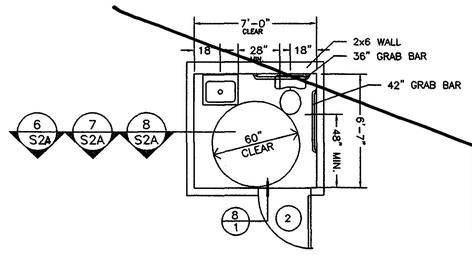


2/4 INTERIOR ELEVATIONS
1/4" = 1'-0"

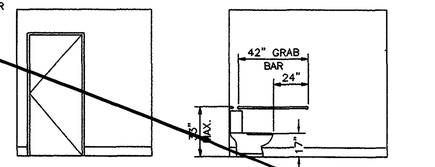
3/4 INTERIOR ELEVATIONS
1/4" = 1'-0"



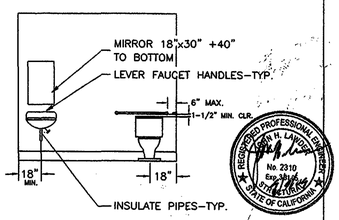
4/4 INTERIOR ELEVATIONS
1/4" = 1'-0"



6/4 INTERIOR ELEVATIONS (OPTIONAL)
1/4" = 1'-0"



5/4 INTERIOR ELEVATIONS (OPTIONAL)



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC. FLS. SS.
DATE MAR 0 5 2009

BASED ON PC 02-104915

FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-106166
AC. FLS. SS.
DATE 4/13/04

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

CUSTOMER:
WILLIAMS SCOTSMAN
SERIAL NO.s #04-904-120 THRU 04-904-319

INTERIOR ELEVATIONS AND OPTIONS

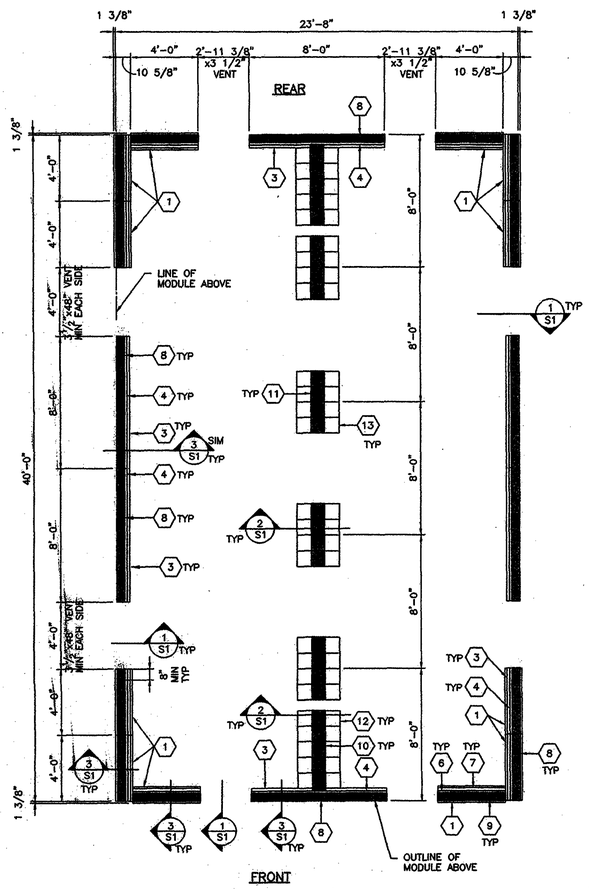
DATE: 04-01-04
SCALE: NONE
DRAWN BY: Y.A.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			5		
2			6		
3			7		
4			8		

PROJECT No.

SHEET No. 4



FOUNDATION PLAN

A / S1

1/4" = 1'-0"

NOTES:

1. TOP OF WOOD PADS TO BE LEVEL.
2. DO NOT INSTALL BUILDINGS IN AREAS OF WATER LINES.
3. SITE TO BE GRADED TO PREVENT WATER PONDING BENEATH THE STRUCTURE.
4. FOUNDATION PLYWOOD TO BE CUT PERPENDICULAR TO THE FACE GRAIN.
5. PER THE CONTRACT OF THIS PROJECT–THE BUILDING PAD MUST BE A MINIMUM OF 30'x50' AND SHALL NOT EXCEED 6" OUT OF LEVEL IN ANY DIRECTION.
6. VENT AREA REQUIRED=$\frac{(60-8)}{150}$=6.4 SF
   VENT AREA PROVIDED=6.4 SF

SILL RESTRAINT:

ON SOIL: 1"ø HOT DIPPED GALV PIPE W/ 12" MIN PENETRATION BELOW SOIL SURFACE @ 10'–0" OC, MIN 2 EA 2x ℄. DRILL SILL 1 1/4"ø MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ON A/C PAVING: 1"ø HOT DIPPED GALV PIPE W/ 12" MIN PENETRATION BELOW PAVING SURFACE @ 10'–0" OC, MIN 2 EA 2x ℄. DRILL SILL 1 1/4"ø MAX. ALT: 60d HOT DIPPED GALV NAILS THRU PREDRILLED SILL ℄ @ 32" OC.

ON CONC PAVING: 1"ø HOT DIPPED GALV PIPE W/ 12" MIN PENETRATION BELOW PAVING SURFACE @ 10'–0" OC, MIN 2 EA 2x ℄. DRILL SILL 1 1/4"ø MAX. ALT: 1/2"ø HILTI KBII's THRU SILL ℄ W/ 3 1/2" MIN CONC EMBEDMENT @ 5'–0" OC MAX.

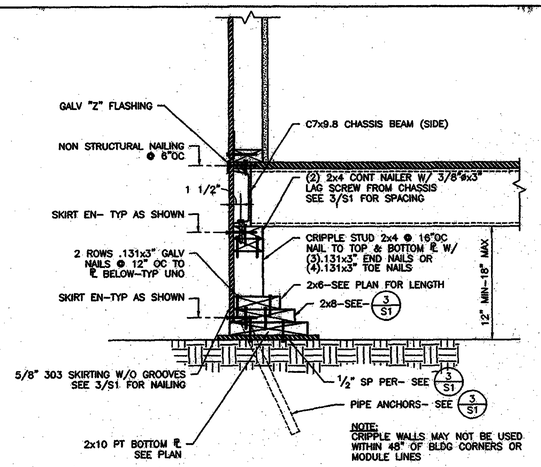
FOUNDATIONS:

ALL FOUNDATION MATERIALS IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED EXCEPT SHIMS MAY BE REDWOOD, HEM FIR OR CEDAR. PRESSURE TREATED DOUGLAS FIR, HEM FIR, PLYWOOD ETC. SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING: "THE MATERIAL IN THIS UNIT WAS TREATED PER 2001 CALIFORNIA BUILDING CODE. ALL MATERIAL FOR USE IN GROUND CONTACT SHALL BE STAMPED "FOR GROUND CONTACT" (LP22). ALL MATERIAL NOT USED IN GROUND CONTACT SHALL BE HF℔2 OR DF℔2 "FOR ABOVE GROUND USE." THE IN–PLANT INSPECTOR SHALL VERIFY THAT ALL PRESSURE TREATED FOUNDATION MATERIAL IS CUT FROM AWPB STAMPED STOCK AND THAT ALL CUTS AND HOLES ARE RE–TREATED PER SPECIFICATIONS. LP–2 AND LP–22 MATERIAL SHALL BE BANDED SEPARATELY FOR SHIPMENT TO THE JOB SITE. THE IN–PLANT INSPECTOR'S VERIFICATION OF EACH BANDED UNIT SHALL BE ATTACHED TO THE MATERIAL.
CONCRETE OR CONCRETE BLOCK FOUNDATIONS ARE NOT ALLOWED. THE FOOTING DESIGN SHALL PROVIDE FOR SHIMS AND BLOCKS NECESSARY TO PERMIT INSTALLATION ON SITES NOT LEVEL, BUT WITHIN TOLERANCE ALLOWED.
INSTALLATION SHALL BE PERMITTED ON EITHER SOIL, CONCRETE OR A/C PAVING, HAVING SUITABLE DESIGN BEARING CAPACITY. THE BUILDINGS SHALL BE SECURELY FASTENED TO THE FOUNDATIONS. THE FOUNDATIONS AND THE METHOD OF FASTENING SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND DSA. PADS SHALL BE DESIGNED FOR A MAXIMUM OF 1000 PSF LOAD ON THE SOIL. PADS SHALL NOT BE PLACED ON TURF.

LEGEND

1. 1/2"x12" WIDE x 48" LONG, UNO ON PLAN, PT STRUCTURAL PLYWOOD W/ FACE GRAIN IN SHORT DIRECTION (CDX PLYWOOD)
2. NOT USED
3. 2x10x8'–0" LONG, UNO ON PLAN, PT ℄ ALT. 2x10 REDWOOD
4. 2x8x8'–0" LONG, UNO ON PLAN, ℄
5. NOT USED
6. 2x8x4'–0" LONG, UNO ON PLAN, ℄
7. 2x10x4'–0" LONG, UNO ON PLAN, ℄ (PT ℄ WHERE PLYWOOD DOES NOT OCCUR)
8. MULTIPLE 2x6x8'–0" LONG, UNO ON PLAN, AS REQ'D FOR HEIGHT
9. MULTIPLE 2x6x4'–0" LONG, UNO ON PLAN, AS REQ'D FOR HEIGHT
10. 2x10 ℄ W/ SHIM, SEE 2/S1
11. 2x10 BLKG, SEE 2/S1
12. (4) 2x12x2'–0" PT ℄ OR (5) 2x10x2'–0" PT ℄ OR (6) 2x8x2'–0" PT ℄, SEE 2/S1
13. (4) 2x12x2'–0" PT ℄ OR (4) 2x10x2'–0" PT ℄ OR (5) 2x8x2'–0" PT ℄, SEE 2/S1

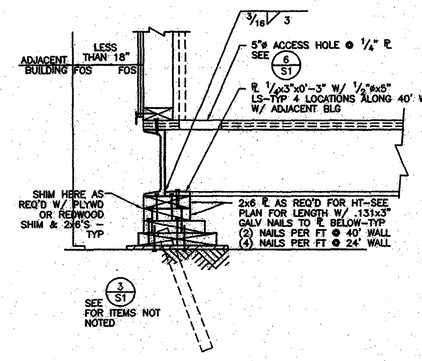
• 1" ø GALV. PIPE LOCATIONS–TYPICAL



FOUNDATION DETAIL

4 / S1

1 1/2" = 1'–0"

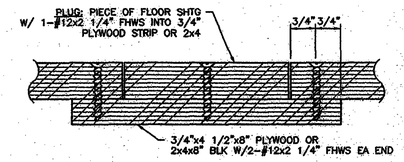


OPTIONAL FOR BUILDING PLACES LESS THAN 18" APART

FOUNDATION DETAIL

5 / S1

1 1/2"=1'–0"

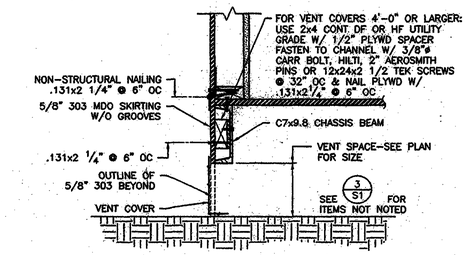


FILLER ACCESS HOLE

DETAIL

6 / S1

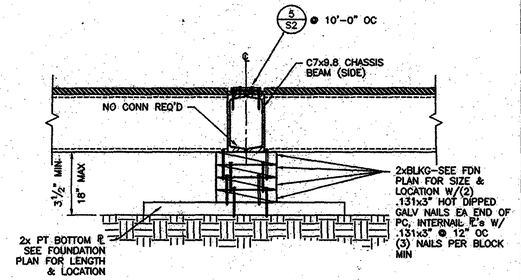
NO SCALE



FOUNDATION DETAIL

1 / S1

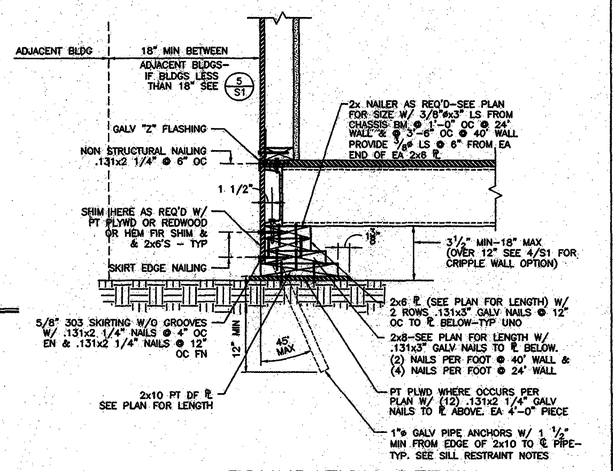
1 1/2" = 1'–0"



DETAIL

2 / S1

1 1/2" = 1'–0"



FOUNDATION DETAIL

3 / S1

1 1/2" = 1'–0"

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC ✓ FLS ✓ SS
DATE MAR 0 5 2004

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 **10** 6166
AC ✓ FLS ✓ SS
DATE 4/13/04

REGISTERED PROFESSIONAL ENGINEER Kenneth A. Luttrell No. 16919 EXP. 3-31-05 Structural Engineer STATE OF CALIFORNIA

2001 CBC FILE NO. PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPLICATION NO.: 02-104915
AC FLS SS AA
DATE JUL 22 2002

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AMS American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

LICENSED ARCHITECT Kenneth A. Luttrell No. C 12631 Exp. 9-30-05 STATE OF CALIFORNIA

CUSTOMER:

WOOD FOUNDATION PLAN & DETAILS
50 PSF FLOOR LIVE LOAD

DATE:	5/30/03
SCALE:	AS NOTED
DRAWN BY:	REM
DESIGNED BY:	MDB
CHECKED BY:	KAL
SERIAL NO.:	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 02156-01

SHEET No. S1

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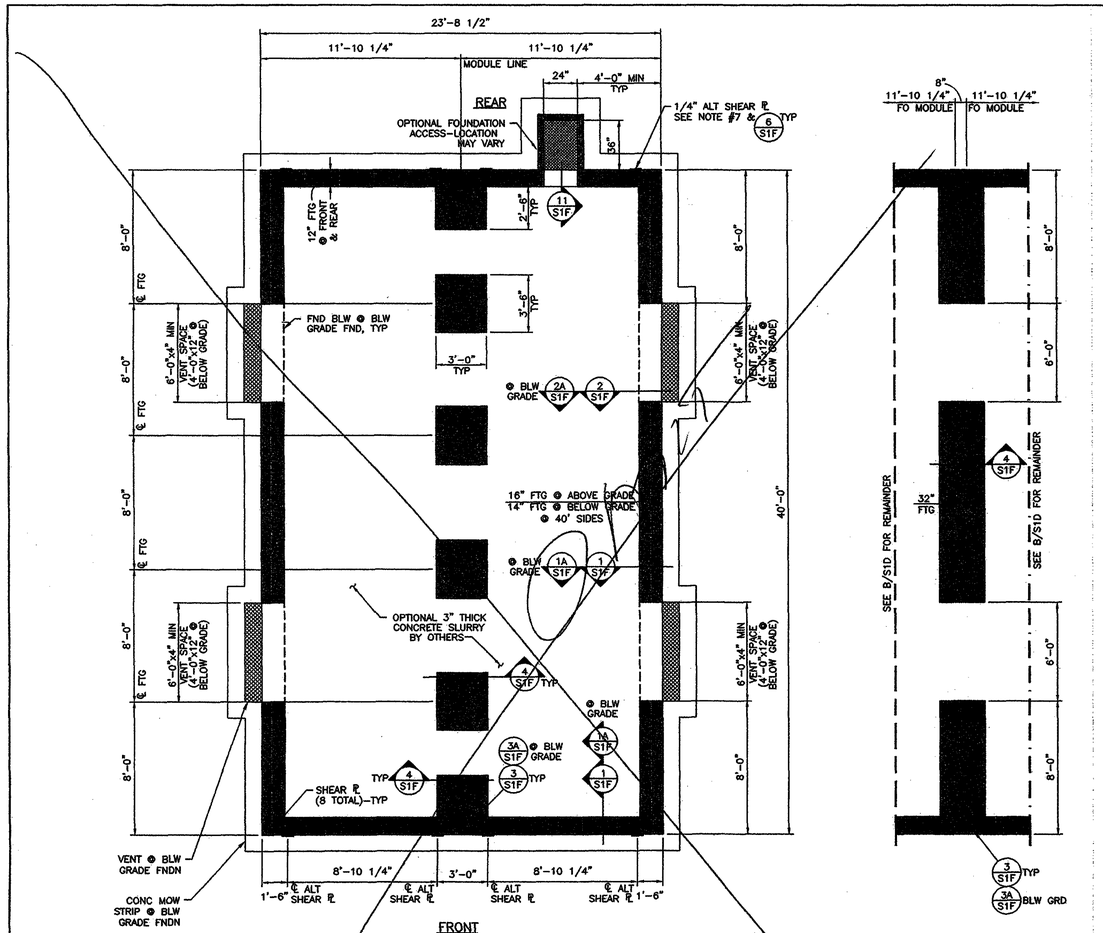


FRONT

100 PSF LIVE LOAD W/O PARTITIONS

FOUNDATION PLAN

B S1D 1/4" = 1'-0"

COMBINED

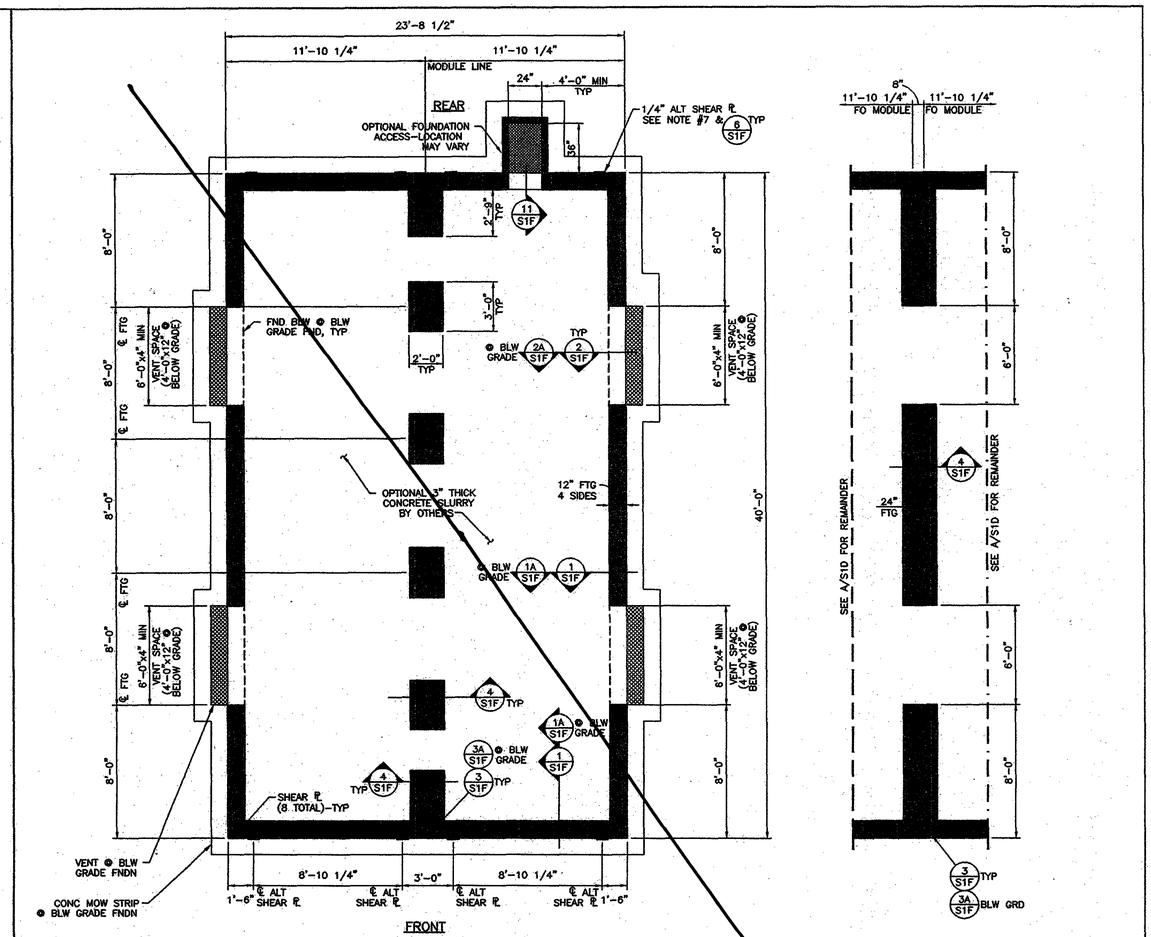
FOUNDATION PLAN

B1 S1D 1/4" = 1'-0"

CONCRETE PROPORTIONS ARE PER METHOD A OF TITLE 24, PART 2, SECTION 1905A.2.3 AND TABLE 19A-A-8			
MAXIMUM SIZE	MINIMUM SACKS OF CEMENT PER YARD OF CONCRETE	MAXIMUM WATER CEMENT RATIO IN GALLONS PER 94 LBS SACK OF CEMENT	PERMISSABLE ASSUMPTION TO MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH IN LBS PER SQUARE INCH
1 1/2 INCHES	5.8	6.75	2500 - SEE NOTE #2
1 1/2 INCHES	6.6	6.0	3500 - SEE NOTE #2

NOTES:

1. DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES.
2. IF CONCRETE WITH A COMPRESSIVE STRENGTH OF 2500 PSI IS SPECIFIED THEN TESTS OF THE CEMENT AND REINFORCING BARS MUST BE PERFORMED PER 2001 CBC. IF CONCRETE WITH A COMPRESSIVE STRENGTH OF 3500 PSI IS SPECIFIED THEN TESTING OF THE CEMENT AND REINFORCING BARS MAY BE WAIVED PER 1929A.6 AS THE CONCRETE WAS DESIGNED WITH A COMPRESSIVE STRENGTH OF 2500 PSI.
3. REINFORCING STEEL 40,000 PSI MINIMUM, PER ASTM A615.
4. MINIMUM SOIL BEARING CAPACITY 1000 PSF.
5. DESIGN SOIL BEARING CAPACITY 1000 PSI.
6. VENT AREA REQ'D = 960 SF($\frac{1 \text{ SF VENT}}{150 \text{ SF}}$)=6.4 SF
   VENT AREA PROVIDED = 8.0 SF
7. ALTERNATE SIDE PLATES MUST COMPLETELY REPLACE TYPICAL SHEAR ℄'s ALONG ANY ONE MODULE LINE (4 ALTERNATE SHEAR ℄'s @ INTERIOR MODULE LINE AND 2 ALTERNATE SHEAR ℄'s @ EXTERIOR MODULE LINE). COMBINATION OF TYPICAL AND ALTERNATE SHEAR ℄'s ALONG ANY ONE MODULE LINE IS NOT PERMITTED.



FRONT

50 PSF LIVE LOAD W/O PARTITIONS

FOUNDATION PLAN

A S1D 1/4" = 1'-0"

COMBINED

FOUNDATION PLAN

A1 S1D 1/4" = 1'-0"

CONCRETE PROPORTIONS ARE PER METHOD A OF TITLE 24, PART 2, SECTION 1905A.2.3 AND TABLE 19A-A-8			
MAXIMUM SIZE	MINIMUM SACKS OF CEMENT PER YARD OF CONCRETE	MAXIMUM WATER CEMENT RATIO IN GALLONS PER 94 LBS SACK OF CEMENT	PERMISSABLE ASSUMPTION TO MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH IN LBS PER SQUARE INCH
1 1/2 INCHES	5.8	6.75	2500 - SEE NOTE #2
1 1/2 INCHES	6.6	6.0	3500 - SEE NOTE #2

NOTES:

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3. REINFORCING STEEL 40,000 PSI MINIMUM, PER ASTM A615.
4. MINIMUM SOIL BEARING CAPACITY 1000 PSF.
5. DESIGN SOIL BEARING CAPACITY 1000 PSI.
6. VENT AREA REQ'D = 960 SF($\frac{1 \text{ SF VENT}}{150 \text{ SF}}$)=6.4 SF
   VENT AREA PROVIDED = 8.0 SF
7. ALTERNATE SIDE PLATES MUST COMPLETELY REPLACE TYPICAL SHEAR ℄'s ALONG ANY ONE MODULE LINE (4 ALTERNATE SHEAR ℄'s @ INTERIOR MODULE LINE AND 2 ALTERNATE SHEAR ℄'s @ EXTERIOR MODULE LINE). COMBINATION OF TYPICAL AND ALTERNATE SHEAR ℄'s ALONG ANY ONE MODULE LINE IS NOT PERMITTED.

REGISTERED PROFESSIONAL ENGINEER John H. Lampe No. 2310 Exp. 3-31-05 STRUCTURAL STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC ___ FLS ___ SS ___
DATE MAR 0 5 2004

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 10 6166
AC ___ FLS ___ SS SPR
DATE 4/13/04

2001 CBC
FILE NO. PC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO.
02-104915
AC ___ FLS ___ SS ___
DATE JUN 22 2004

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American Modular Systems Inc.
787 Sprecicels Ave. Manteca, CA 95336
(209)825-1921 Fax:(209)825-7018
americanmodular.com

LICENSED ARCHITECT Kenneth A. Luttrell No. C 12631 Ren. 2-31-05 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER Kenneth A. Luttrell No. 1419 EXP. 3-31-05 Structural Engineer STATE OF CALIFORNIA

CUSTOMER:

CONCRETE FOUNDATION PLANS
50 PSF FLOOR LIVE LOAD &
100 PSF FLOOR LIVE LOAD

DATE:	5/30/03
SCALE:	AS NOTED
DRAWN BY:	REM
DESIGNED BY:	MDB
CHECKED BY:	KAL
SERIAL NO.	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			5		
2			6		
3			7		
4			8		

PROJECT No. 02156-01

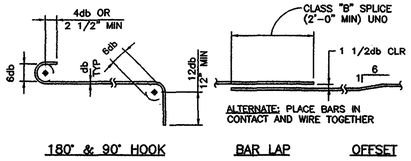
SHEET No. S1D

P:\02156\01\ACAD\STRU\S1d.dwg Time:Jun03,2003--09:42am Login:lawrencej Dimscale:1 LTScale:24

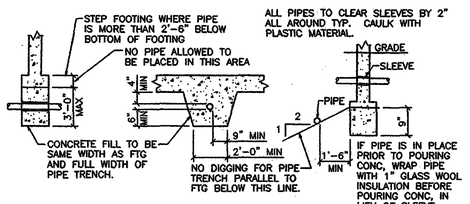
ANCHOR TYPE	HILTI KWIK BOLT II ICBO # 4627		SIMPSON WEDGEALL ICBO # 3631	
ANCHOR SIZE (IN)	1/2"ø	5/8"ø	1/2"ø	5/8"ø
MIN EMBED (IN)	3 1/2"	4"	3 3/8"	4 1/2"
TENSION TEST (LB)	3000#	3880#	2796#	4032#
INSTALLATION TORQUE (FT-LB)	45	95	60	90

1. TENSION TEST- 1.6 x ALLOWABLE TENSILE LOAD PER IR 19-1
2. NORMAL WEIGHT CONCRETE WITH f'c= 2500 PSI TO COMPLY WITH 1929A.6 FOR MATERIAL TEST WAIVER.

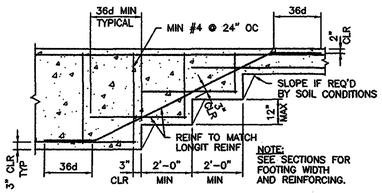
12 S1F ANCHOR BOLT SCHEDULE DETAIL
NO SCALE



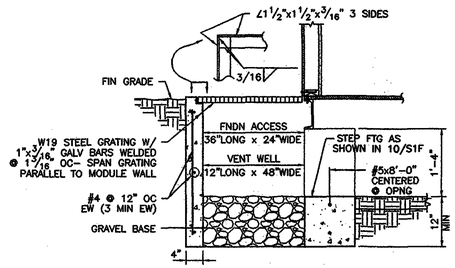
8 S1F TYPICAL REINFORCING BENDS DETAIL
1" = 1'-0"



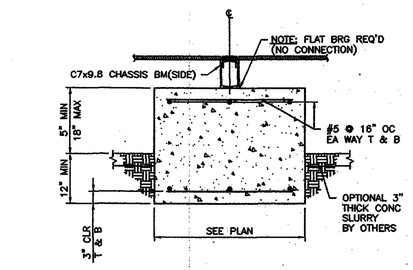
9 S1F PIPE SLEEVE DETAIL
1/2"=1'-0"



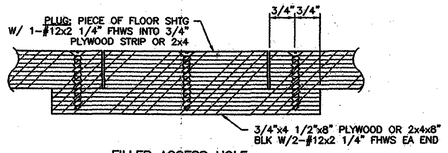
10 S1F STEPPED FOOTING DETAIL
3/8" = 1'-0"



11 S1F OPTIONAL FOUNDATION ACCESS SECTION
3/4" = 1'-0"



4 S1F SECTION
3/4" = 1'-0"



5 S1F FILLER ACCESS HOLE DETAIL
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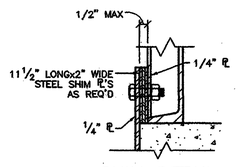
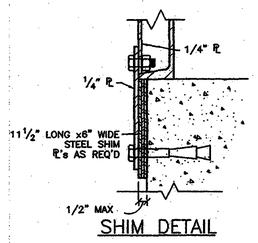
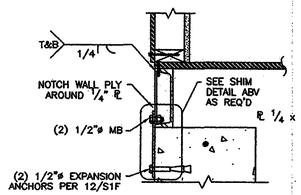


SHIM DETAIL

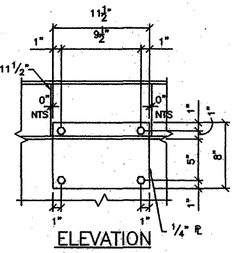


SHIM DETAIL



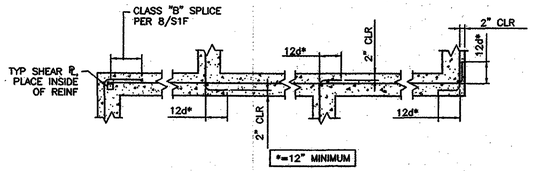
SECTION

NOTE: PROVIDE 3" CONC COVER OVER 1/4" ℄, FROM FACE & EDGES

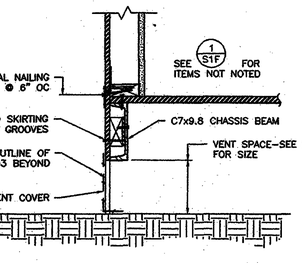


ELEVATION

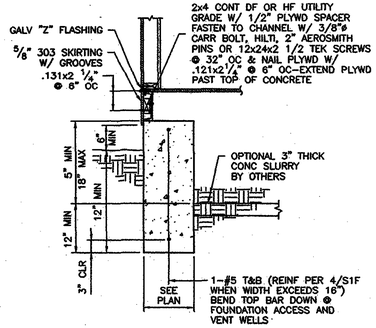
6 S1F ALTERNATE SHEAR PLATE DETAIL
1" = 1'-0"



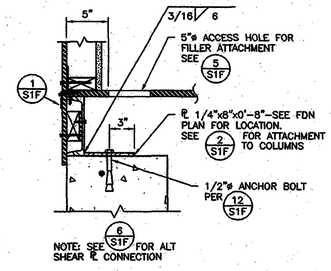
7 S1F TYP WALL & FTG REINF SPLICES DETAIL
NO SCALE



ABOVE GRADE SECTION
1 S1F 3/4" = 1'-0"

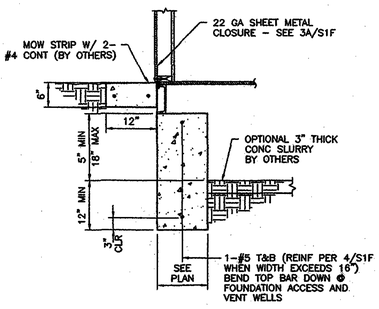


ABOVE GRADE DETAIL
2 S1F 1 1/2" = 1'-0"

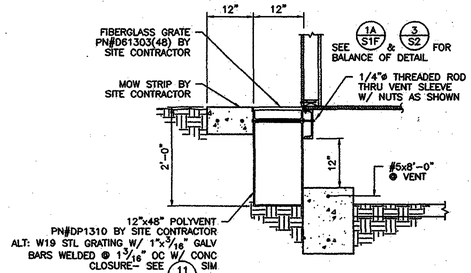


NOTE: SEE 6/S1F FOR ALT SHEAR ℄ CONNECTION

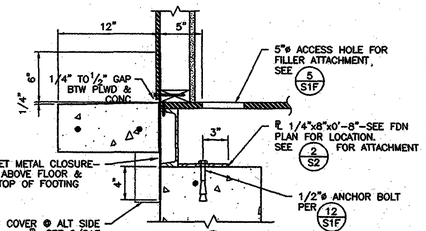
ABOVE GRADE SECTION
3 S1F 1 1/2" = 1'-0"



BELOW GRADE SECTION
1A S1F 3/4" = 1'-0"



BELOW GRADE DETAIL
2A S1F 3/4" = 1'-0"



BELOW GRADE SECTION
3A S1F 1 1/2" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER JOHN H. LANGE No. 2310 Exp. 06/30/05 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2003

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 106166
AC FLS SS
DATE 4/13/04

2001 CBC FILE NO. PC
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPLICATION NO. 02-104915
AC FLS SS
DATE JUL 22 2003

24 x 40
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American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1021 Fax (209)825-7018
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LICENSED ARCHITECT KENNETH A. LUTTRELL No. C 12631 Ren. 8-31-05 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER Kenneth A. Luttrell No. 1418 EXP. 8-31-05 Structural Engineer STATE OF CALIFORNIA

CUSTOMER:

CONCRETE FOUNDATION DETAILS

DATE:	5/30/03
SCALE:	AS NOTED
DRAWN BY:	REM
DESIGNED BY:	MDB
CHECKED BY:	KAL
SERIAL NO.	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 02156-01

SHEET No. S1F

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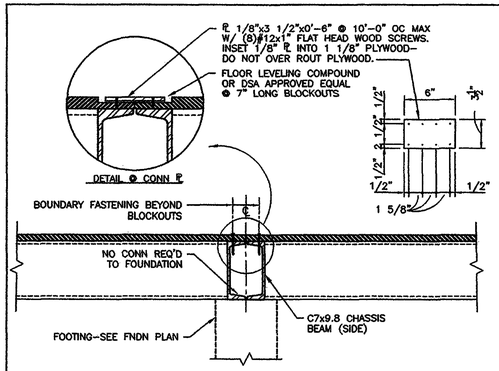
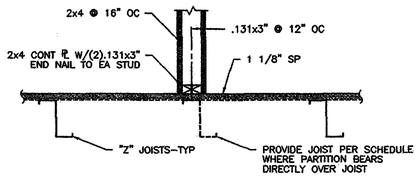


4/S2 DETAIL

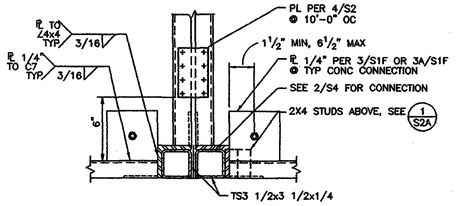
1 1/2" = 1'-0"



TYP INTERIOR NON-BEARING WALL BASE

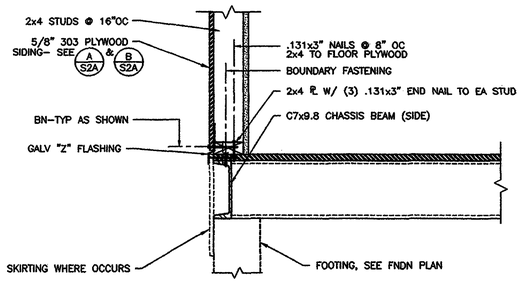
5/S2 DETAIL

1 " = 1'-0"



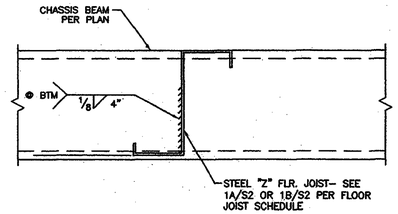
2/S2 PLAN DETAIL

NO SCALE



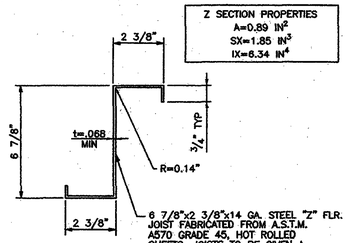
3/S2 DETAIL

1 1/2" = 1'-0"



1/S2 DETAIL

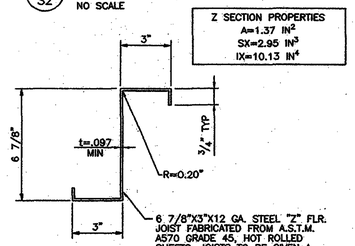
NO SCALE



14 GA JOIST

1A/S2 DETAIL

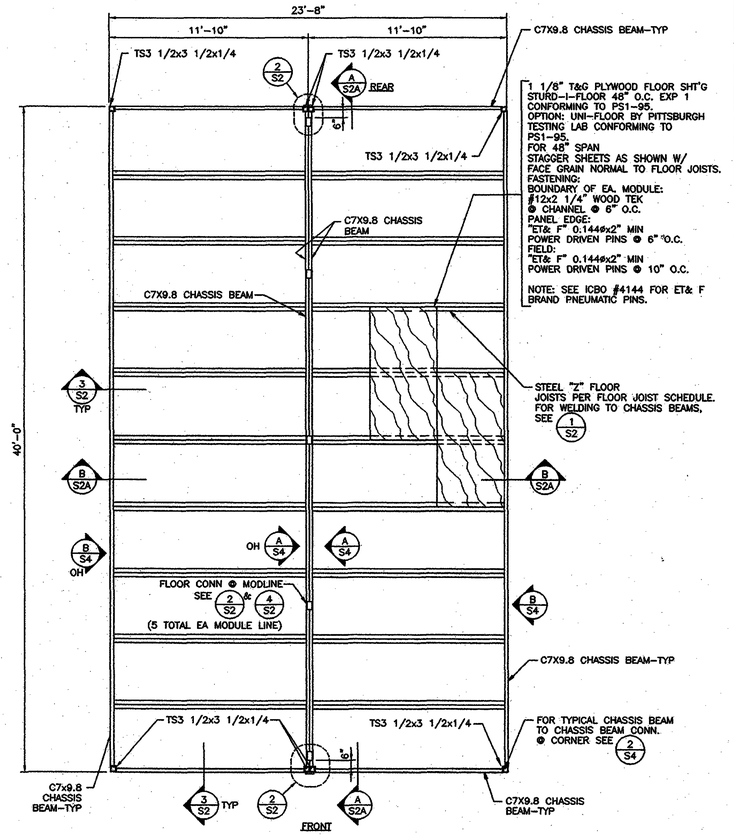
NO SCALE



12 GA JOIST

1B/S2 DETAIL

NO SCALE



NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.

A/S2 FLOOR FRAMING PLAN

1/4" = 1'-0"

FLOOR JOIST SCHEDULE

LIVE LOAD	SPACING	
	14 GA JOIST	12 GA JOIST
50 PSF	48" OC	48" OC
~~50+20 PSF~~	~~24" OC~~	~~48" OC~~
~~100 PSF~~	~~24" OC~~	~~24" OC~~
~~125 PSF~~		~~24" OC~~

NOTES:
1. FOR JOISTS SEE 1A/S2 AND 1B/S2.
2. SPACING IS TO CENTER LINE OF TOP FLANGE.
3. PROVIDE 12 GA JOIST WHERE PARTITION BEARS DIRECTLY OVER JOIST.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC ✓ FLS ✓ SS
DATE MAR 0 5 2009

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 106166
AC ✓ FLS ✓ SS
DATE 4/13/04

REGISTERED PROFESSIONAL ENGINEER
Kenneth A. Luttrell
No. 2310
Exp 9-30-05
STATE OF CALIFORNIA

2001 CBC
FILE NO. PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO.
02-104915
AC FLS SS
DATE 1111 2 2 2010

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AMS
American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

LICENSED ARCHITECT
PATRICK GRAHAM
No. C 12691
Ren. 8-31-05
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
Kenneth A. Luttrell
No. 2418
EXP. 9-30-05
Structural Engineer
STATE OF CALIFORNIA

CUSTOMER:

FLOOR FRAMING PLAN AND DETAILS

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			4		
2			5		
3			6		

PROJECT No. 02156-01

SHEET No. S2

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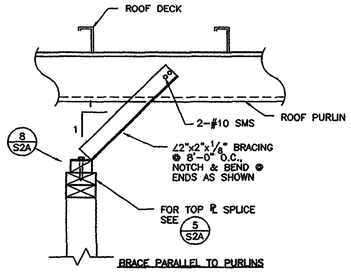
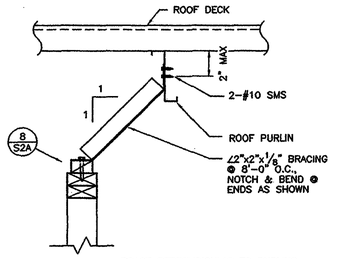
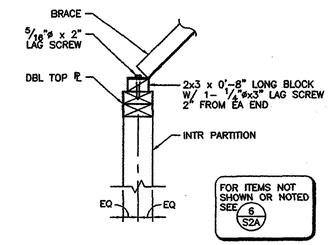
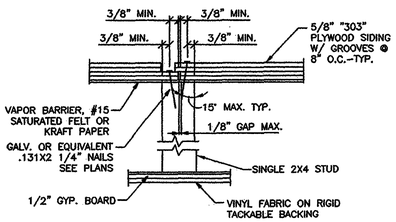




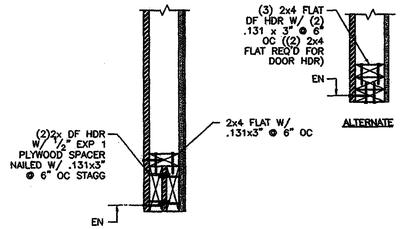
ALT. WALL FRAMING
DETAIL
7 S2A
1 1/2" = 1'-0"



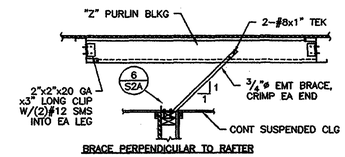
WALL FRAMING
DETAIL
8 S2A
1 1/2" = 1'-0"

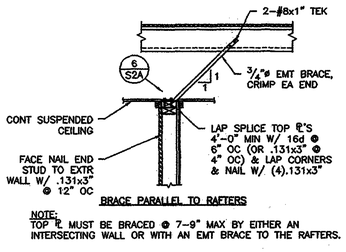


TYPICAL SIDING JOINT
DETAIL
9 S2A
NO SCALE



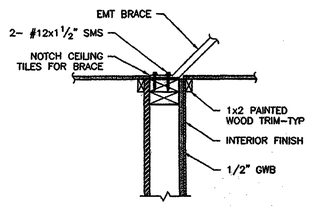
WALL FRAMING
DETAIL
4 S2A
1 1/2" = 1'-0"



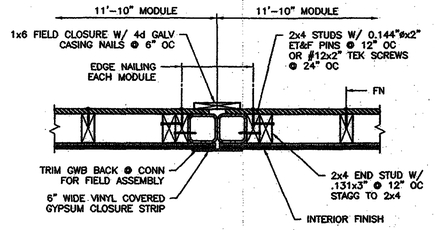


NOTE:
TOP ℄ MUST BE BRACED @ 7'-9" MAX BY EITHER AN INTERSECTING WALL OR WITH AN EMT BRACE TO THE RAFTERS.

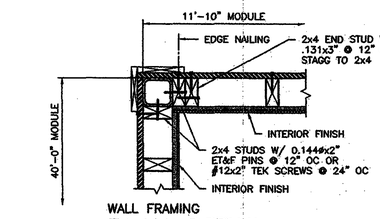
WALL FRAMING
DETAIL
5 S2A
NO SCALE



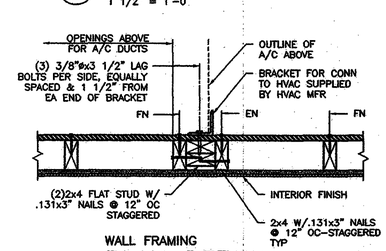
WALL FRAMING
DETAIL
6 S2A
1 1/2" = 1'-0"



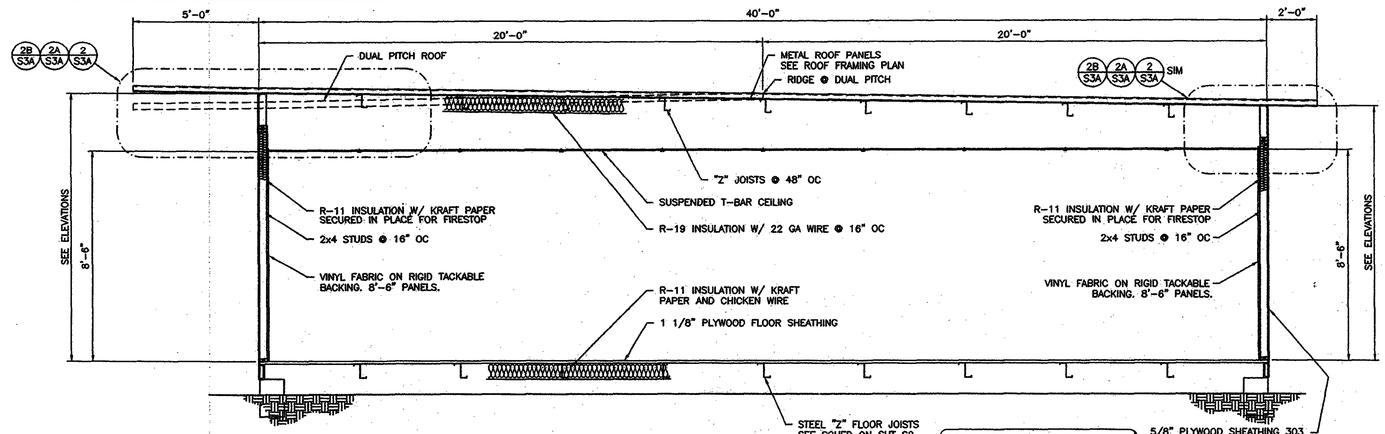
WALL FRAMING
PLAN DETAIL
1 S2A
1 1/2" = 1'-0"



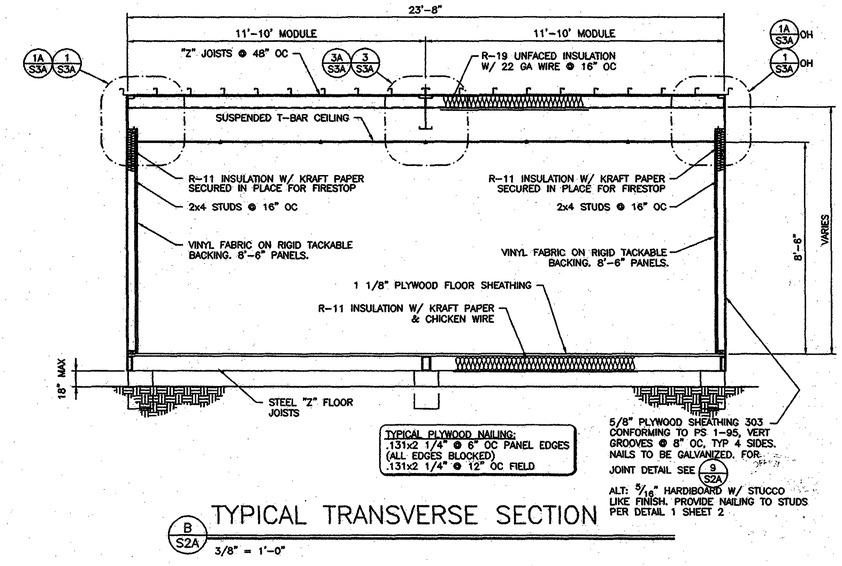
WALL FRAMING
PLAN DETAIL
2 S2A
1 1/2" = 1'-0"



WALL FRAMING
PLAN DETAIL
3 S2A
1 1/2" = 1'-0"



A S2A
TYPICAL LONGITUDINAL SECTION
3/8" = 1'-0"



B S2A
TYPICAL TRANSVERSE SECTION
3/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2009

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 10616 6
AC FLS SS
DATE 4/13/04

REGISTERED PROFESSIONAL ENGINEER
Louis H. Lawson
No. 2310
Expiration Date
STRUCTURAL
STATE OF CALIFORNIA

2001 CBC
FILE NO. PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO.
02-104915
AC FLS SS
DATE JUL 2 2 2003

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787 Sprockels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

LICENSED ARCHITECT
REGISTERED PROFESSIONAL ENGINEER
No. C 12931
Ren. 3-31-05
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
Kenneth A Luttrell
No. 1418
EXP. 3-31-05
Structural Engineer
STATE OF CALIFORNIA

CUSTOMER:

BUILDING SECTIONS AND WALL DETAILS

DATE:	5/30/03
SCALE:	AS NOTED
DRAWN BY:	REM
DESIGNED BY:	MDB
CHECKED BY:	KAL
SERIAL NO.	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			5		
2			6		
3			7		
4			8		

PROJECT No. 02156-01

SHEET No. S2A

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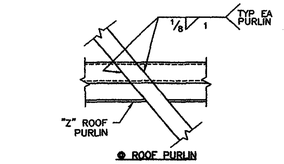
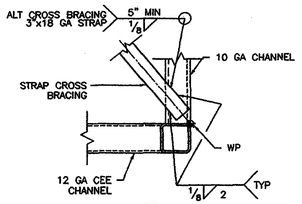
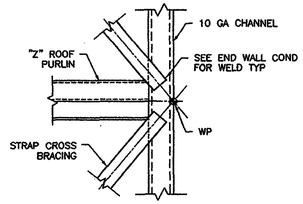


@ ROOF PURLIN

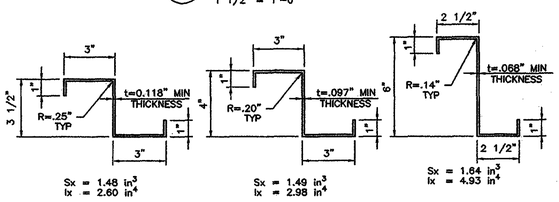


@ END WALL



@ ROOF CHANNEL

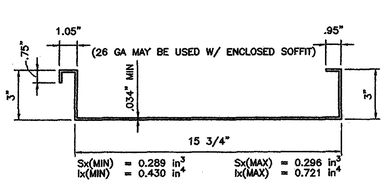
CROSS BRACING
1 S3 DETAIL
1 1/2" = 1'-0"



10 GA ROOF PURLIN | 12 GA ROOF PURLIN | 14 GA ROOF PURLIN

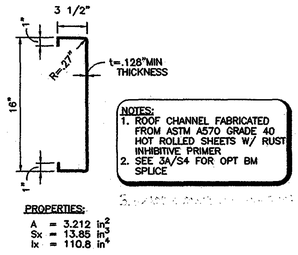
JOIST FABRICATED FROM ASTM A570 GRADE 36, HOT ROLLED SHEETS. JOISTS TO BE GIVEN A RUST INHIBITIVE COATING.

2 S3 DETAIL
3" = 1'-0"



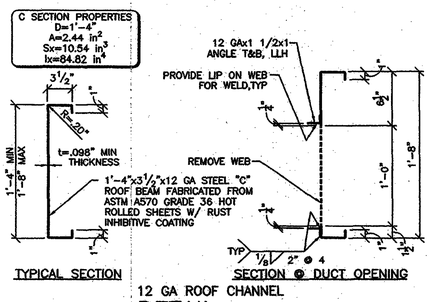
PAN FABRICATED FROM ASTM A570 GRADE 36, HOT ROLLED SHEETS. PAN TO BE GIVEN A RUST INHIBITIVE COATING.

3 S3 22 GA ROOF PAN DETAIL
3" = 1'-0"

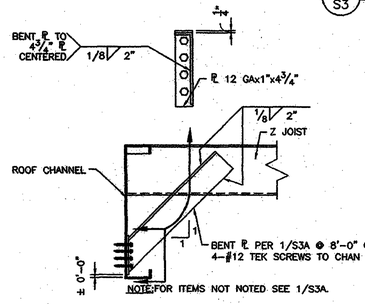


NOTES:
1. ROOF CHANNEL FABRICATED FROM ASTM A570 GRADE 40 HOT ROLLED SHEETS W/ RUST INHIBITIVE PRIMER
2. SEE 3A/S4 FOR OPT BM SPLICE

4 S3 10 GA ROOF CHANNEL DETAIL
1 1/2" = 1'-0"

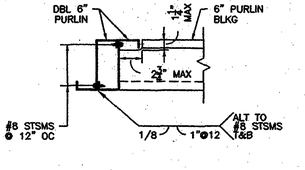


5 S3 12 GA ROOF CHANNEL DETAIL
1 1/2" = 1'-0"

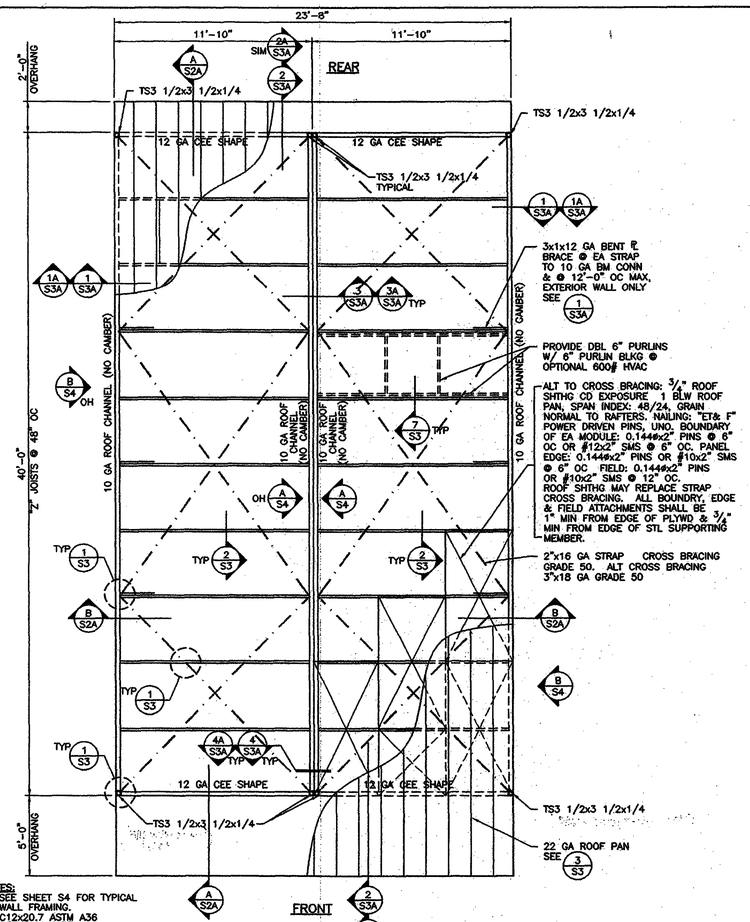


NOTE: FOR ITEMS NOT NOTED SEE 1/S3A.

6 S3 DETAIL
1 1/2" = 1'-0"

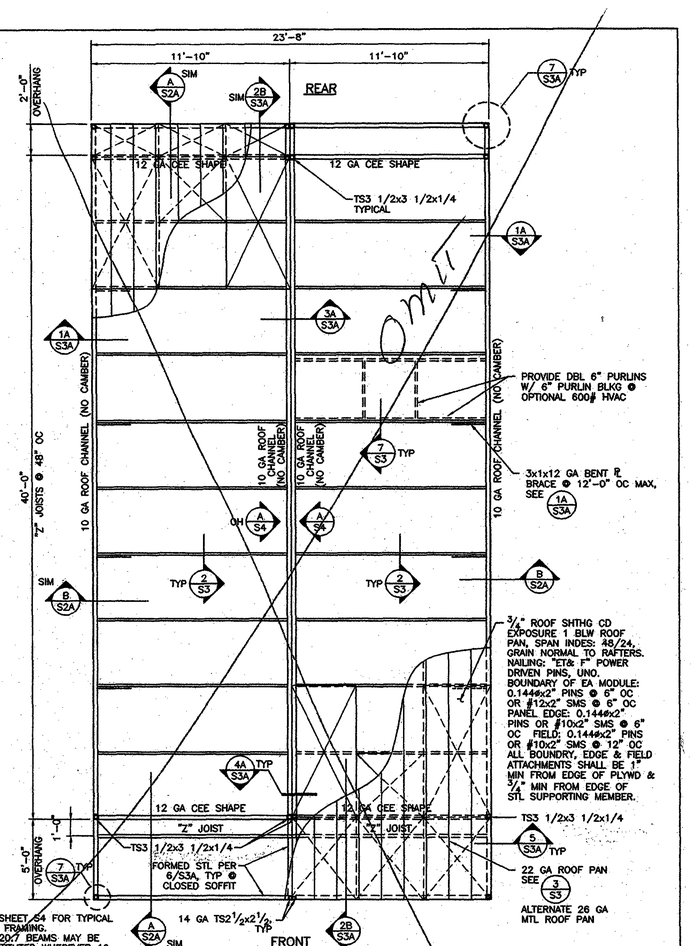


7 S3 DETAIL
1 1/2" = 1'-0"



NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.
2. C12x20.7 ASTM A36 BEAMS MAY BE SUBSTITUTED WHEREVER 10 GA ROOF CHANNELS ARE SHOWN ON ROOF PLAN.

MONO/DUAL PITCH – OPEN SOFFIT
A S3 ROOF FRAMING PLAN
1/4" = 1'-0"



NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.
2. C12x20.7 BEAMS MAY BE SUBSTITUTED WHEREVER 10 GA ROOF CHANNELS ARE SHOWN ON ROOF PLAN.

ALTERNATE
MONO/DUAL PITCH – CLOSED SOFFIT W/ 3/4" ROOF PLYWOOD
B S3 ROOF FRAMING PLAN
1/4" = 1'-0"

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2009

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 10 61 66
AC FLS SS
DATE 4/13/04

REGISTERED PROFESSIONAL ENGINEER JOHN H. LATTIN No. 2210 Exp. 6-30-04 STRUCTURAL STATE OF CALIFORNIA

2001 CBC FILE NO. PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPLICATION NO. 02-104915
AC FLS SS
DATE JUL 0 9 2003 JUL 22 2003

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems Inc.
787 Sprockels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

LICENSED ARCHITECT RANDALL PATRICK CRAWFORD No. C 12631 Ren. 6-30-05 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER Kenneth A. Luttrell No. 1418 EXP. 9-31-05 Structural Engineer STATE OF CALIFORNIA

CUSTOMER:

ROOF FRAMING PLAN AND DETAILS

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			5		
2			6		
3			7		
4			8		

PROJECT No. 02156-01

SHEET No. S3

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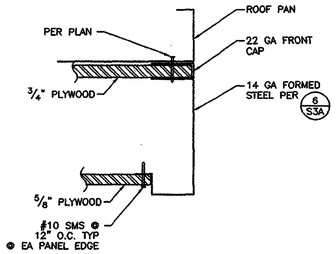
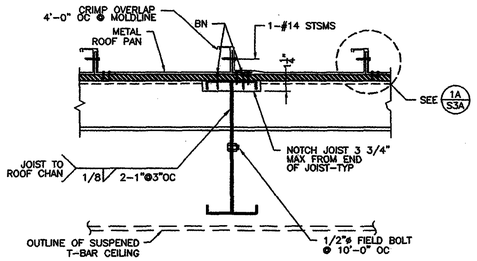


ALT ENCLOSED SOFFIT W/ PLYWOOD DECKING

5/S3A DETAIL

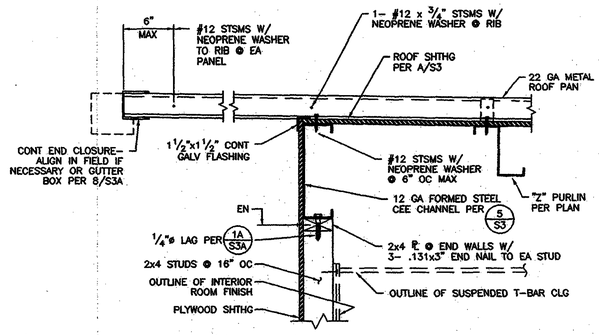
3" = 1'-0"



ALT W/ ROOF PLYWOOD SHTHG

3A/S3A DETAIL

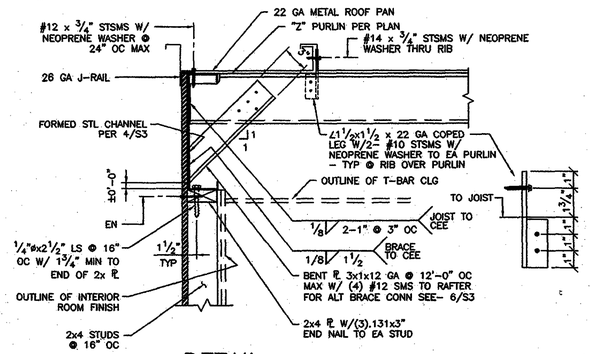
1 1/2" = 1'-0"



ALT W/ PLYWOOD SHTHG
(2'-0" OVERHANG DETAIL SIM)

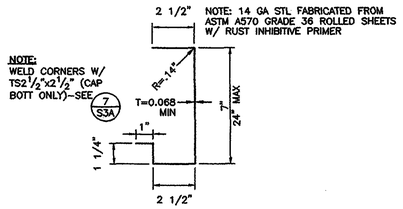
2A/S3A 5'-0" OVERHANG DETAIL

1 1/2" = 1'-0"



1/S3A DETAIL

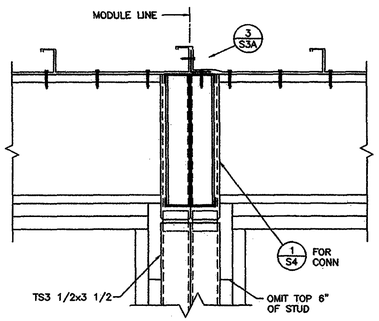
1 1/2" = 1'-0"



14 GA FORMED STEEL CEE ALT ENCLOSED SOFFIT

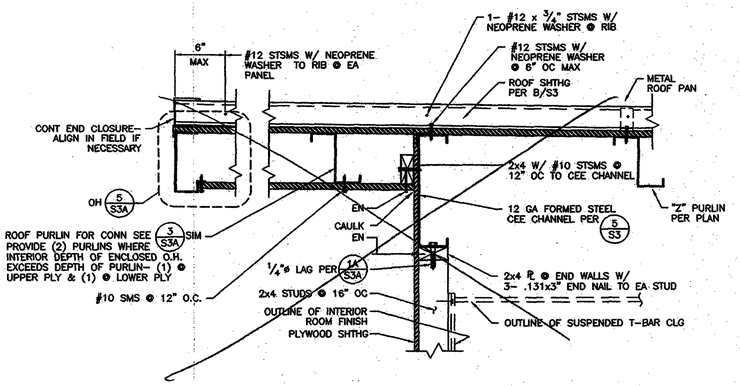
6/S3A DETAIL

3" = 1'-0"



4/S3A DETAIL

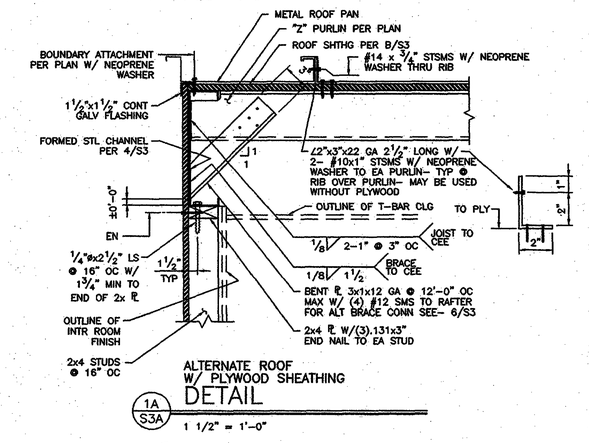
1 1/2" = 1'-0"



ALTERNATE ENCLOSED SOFFIT & ROOF PLYWOOD
(2'-0" OVERHANG DETAIL SIM)

2B/S3A 5'-0" OVERHANG DETAIL

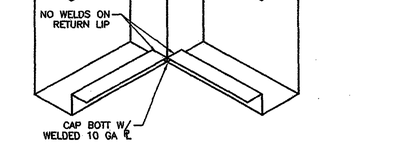
1 1/2" = 1'-0"



ALTERNATE ROOF W/ PLYWOOD SHEATHING

1A/S3A DETAIL

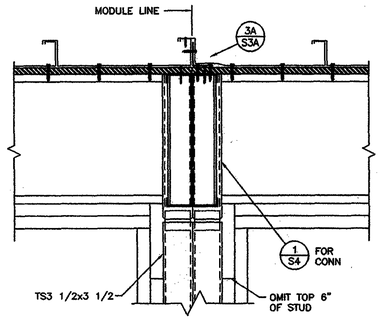
1 1/2" = 1'-0"



ALT ENCLOSED SOFFIT STL PROFILE

7/S3A DETAIL

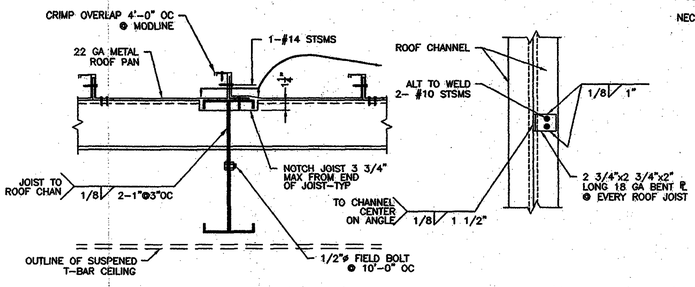
NO SCALE



ALT W/ PLYWOOD DECKING

4A/S3A DETAIL

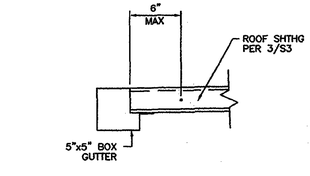
1 1/2" = 1'-0"



(2'-0" OVERHANG DETAIL SIM)

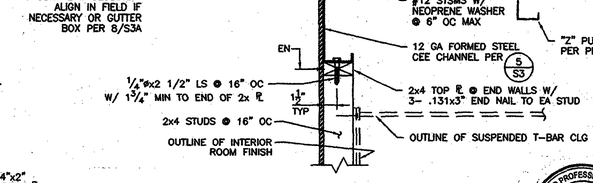
2/S3A 5'-0" OVERHANG DETAIL

1 1/2" = 1'-0"



8/S3A DETAIL

NO SCALE



(2'-0" OVERHANG DETAIL SIM)

2/S3A 5'-0" OVERHANG DETAIL

1 1/2" = 1'-0"

3/S3A DETAIL

1 1/2" = 1'-0"

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems Inc.
787 Sprecklels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
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LICENSED ARCHITECT — KEVIN PATRICK MANGAN — No. C 12837 — Exp. 5-31-05 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — Kenneth A. Luttrell — No. 1419 — EXP. 5-31-05 — Structural Engineer — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — DAVID L. LAWSON — No. 2310 — Exp. 3/31/06 — STRUCTURAL — STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2004

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 10 61 66
AC FLS SS
DATE 4/13/04

2001 CBC
FILE NO. PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPLICATION NO. 02-104915
AC FLS SS
DATE JUL 22 2003

CUSTOMER:

ROOF SECTIONS AND DETAILS

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			3		
2			4		

PROJECT No. 02156-01

SHEET No. S3A

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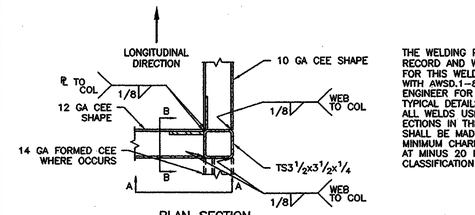
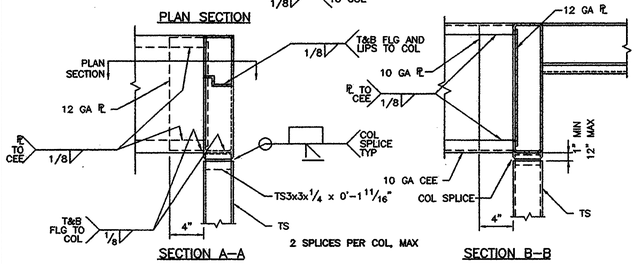
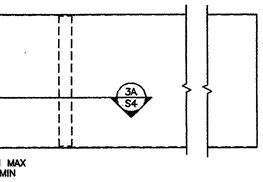
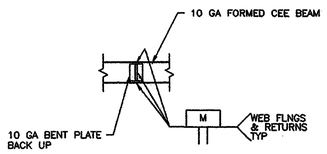


THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR THIS WELD SHALL BE PREPARED IN ACCORDANCE WITH AWSD.1-89 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO THE DSA. TYPICAL DETAILS 1/S4, 2/S4 AND 3A/S4. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT MINUS 20 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

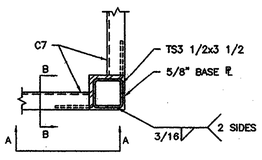


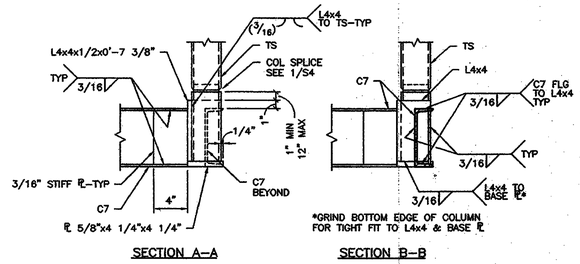


OPTIONAL BEAM SPLICE LOCATION
DETAIL
3 / S4
NO SCALE



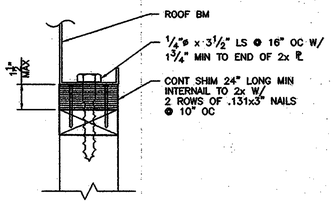
BEAM SPLICE
DETAIL
3A / S4
1 1/2" = 1'-0"



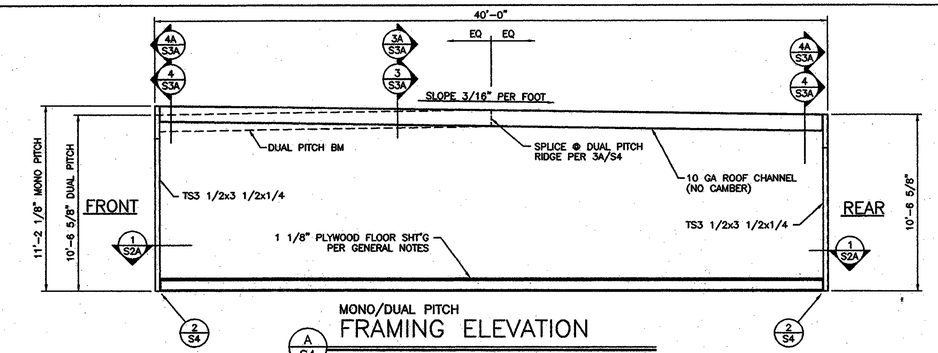


TOP CONNECTION
DETAIL
1 / S4
1 1/2" = 1'-0"

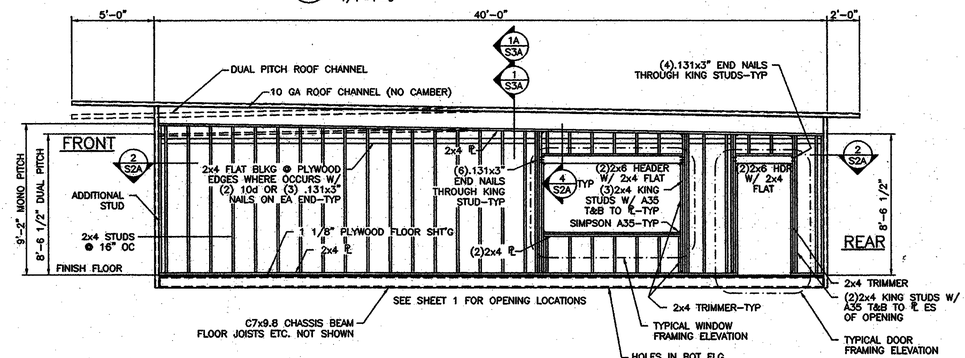
BOTTOM CONNECTION
DETAIL
2 / S4
1 1/2" = 1'-0"



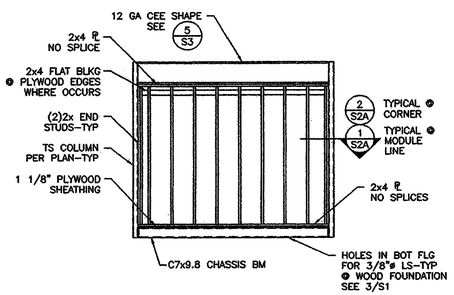
OPTIONAL SHIM @ SIDEWALL/ ENDWALL SIM
DETAIL
4 / S4
1 1/2" = 1'-0"



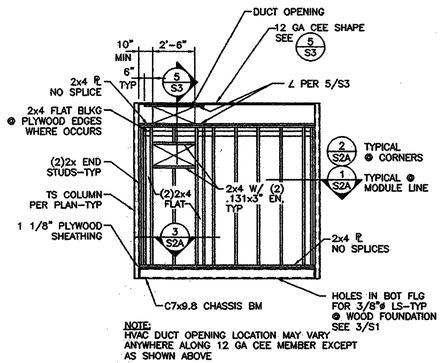
MONO/DUAL PITCH
FRAMING ELEVATION
A / S4
1/4"=1'-0"



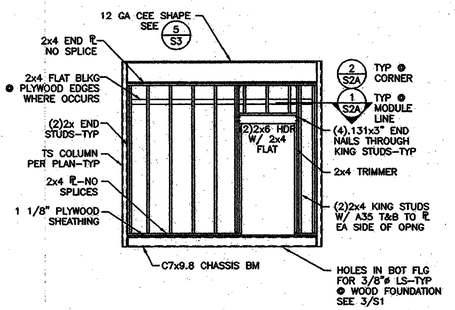
MONO/DUAL PITCH
FRAMING ELEVATION
B / S4
1/4" = 1'-0"



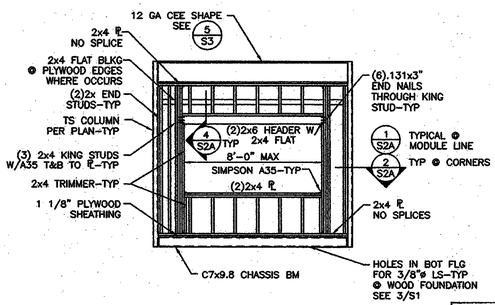
SOLID END WALL ELEVATION
C / S4
1/4" = 1'-0"



SEE SHEET 1 FOR OPENING LOCATION
HVAC END WALL ELEVATION
D / S4
1/4" = 1'-0"



SEE SHEET 1 FOR OPENING LOCATION
DOOR END WALL ELEVATION
E / S4
1/4" = 1'-0"



SEE SHEET 1 FOR OPENING LOCATION
WINDOW END WALL ELEVATION
F / S4
1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2004

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 10 6166
AC FLS SS
DATE 4/13/04

2001 CBC
FILE NO. PC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO.
02-104915
AC FLS SS
DATE JUL 2 2 2003

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems Inc.
787 Sprecklels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

LICENSED ARCHITECT — No. C 12631 — Exp. 3-31-05 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — Kenneth A. Luttrell — No. 1419 — EXP. 3-31-05 — Structural Engineer — STATE OF CALIFORNIA

CUSTOMER:

WALL FRAMING ELEVATIONS AND FRAME DETAILS

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 02156-01

SHEET No. S4

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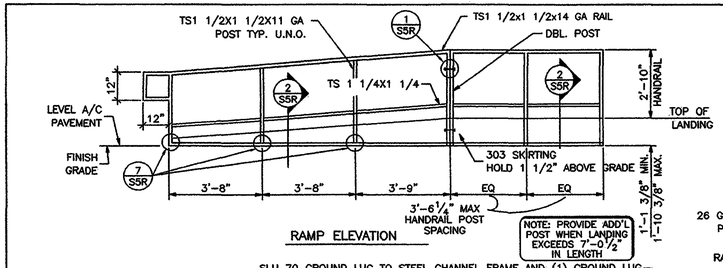
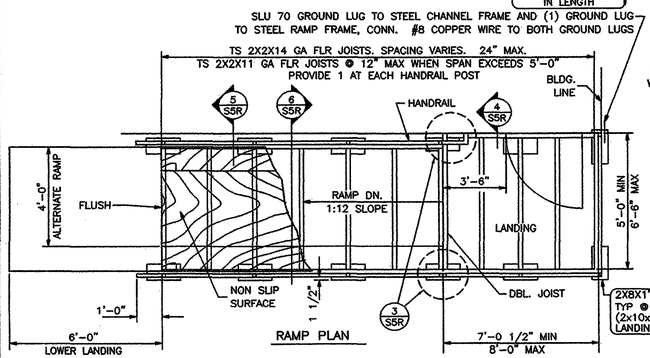


RAMP ELEVATION

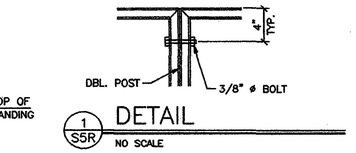


RAMP PLAN

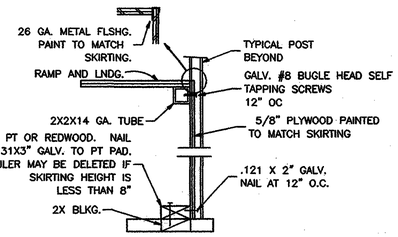
NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN) FOR MOVING

ALTERNATE: RAMP MAY BE FABRICATED 4'-0" WIDE. SEE 8/S5R FOR OPTIONAL RAMP

A S5R RAMP 3/8"=1'-0"

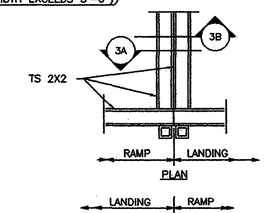


1 S5R DETAIL NO SCALE

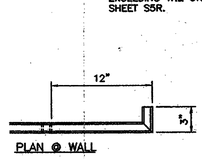


NOTE: FIT PLYWOOD WITHIN 1" MAX OF SOIL,PT PADS AND FRAMING

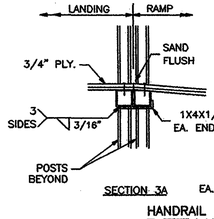
2 S5R RAMP SKIRT DETAIL NO SCALE



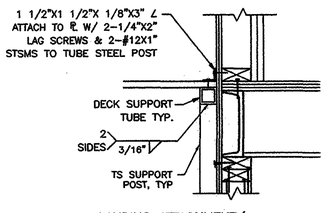
PLAN



PLAN @ WALL

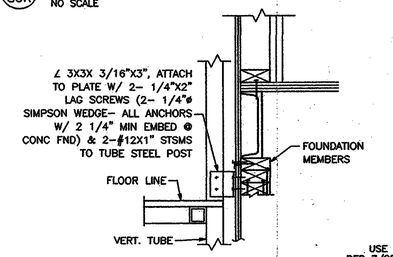


3 S5R HANDRAIL DETAIL NO SCALE



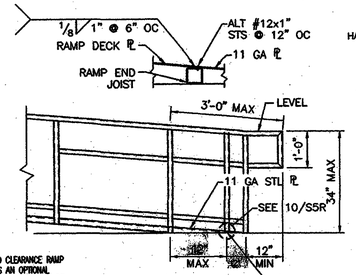
LANDING ATTACHMENT/ SUPPORT

4 S5R DETAIL NO SCALE



RAMP CONNECTION

5 S5R DETAIL NO SCALE



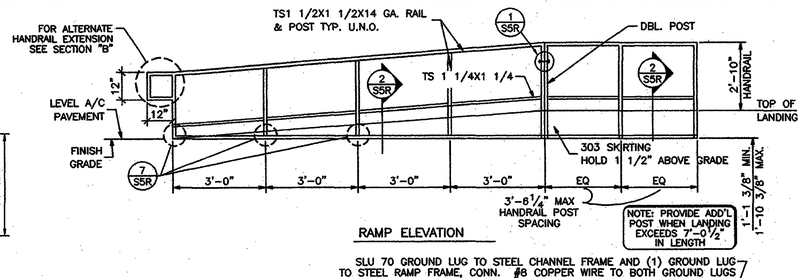
NOTE: THE ZERO CLEARANCE RAMP LAYOUT IS AN OPTIONAL METHOD ONLY. IT MUST BE APPROVED IN WRITING, IF AMS IS TO PROVIDE THIS OPTION. ARCHITECT/OWNER MUST TAKE INTO ACCOUNT VARYING SITE CONDITIONS, GRADE CHANGES, BUILDING SEPARATION, ETC.

TYP ZERO CLEARANCE RAMP DETAIL

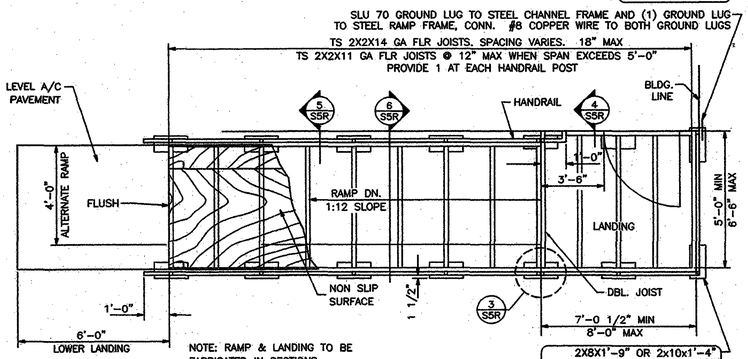
9 S5R NO SCALE

NOTES:

1. RAMPS: RAMPS SHALL NOT SLOPE MORE THAN 1" IN 12".
2. HANDRAILS: HANDRAILS AT BOTH SIDES OF RAMP @ 34".
3. LANDING AND RAMP TO HAVE NON SLIP SURFACE.
4. PROVIDE GROUNDING OF RAMP TO BLDG FRAME W/ #8 CU TO BOTH GROUND LUGS.
5. DUE TO VARYING SITE CONDITIONS THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 26". THEREFORE, IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE BUILDING COULD BE 26'-0" AT A SLOPE OF 1:12. ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY AMS INC. IS 12'-0" AT A SLOPE OF 1:12. THEREFORE, THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONS AND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS. IN NO WAY IS AMS INC. RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING THE ORIGINAL PLAN AS SHOWN ON SHEET S5R.



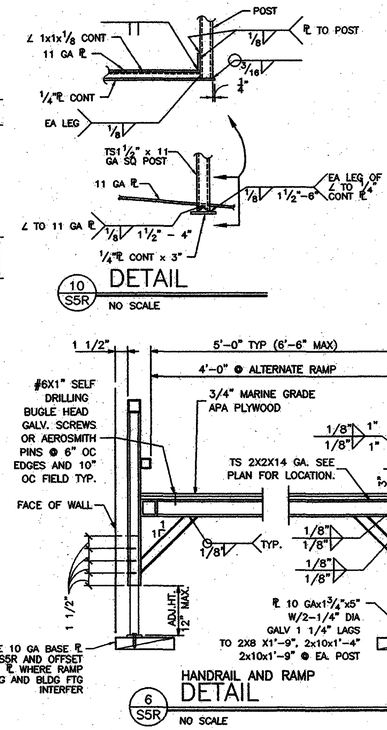
RAMP ELEVATION



NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN) FOR MOVING

RAMP PLAN

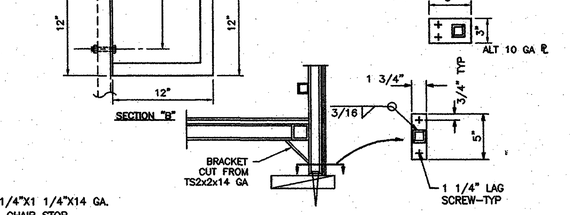
ALTERNATE: RAMP MAY BE FABRICATED 4'-0" WIDE. SEE 6/S5R

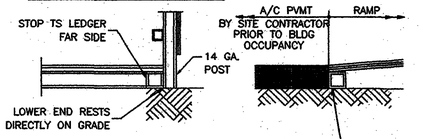


10 S5R DETAIL NO SCALE

6 S5R HANDRAIL AND RAMP DETAIL NO SCALE

8 S5R RAMP- OPTIONAL (14 GA POSTS) 3/8"=1'-0"





LOWER END POST

7 S5R DETAIL NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC. FLS SS
DATE MAR 0 5 2003

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 106160
AC. FLS SS
DATE 4/13/04

REGISTERED PROFESSIONAL ENGINEER No. 2310 Exp.3/06 STRUCTURAL STATE OF CALIFORNIA

2001 CBC
FILE NO.: PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO.
02-104915
AC. FLS SS
DATE JUL 22 2004

ENTRY RAMP AND LANDING SPECIFICATIONS

EACH BUILDING SHALL HAVE A RAMP AND LANDING TO CONFORM TO TITLE 24 CCR SECTIONS 1133B.5, 1006 AND 1007. THE RAMP AND LANDING STRUCTURES INCLUDING HANDRAIL AND WHEEL GUIDES ARE TO BE PREFABRICATED METAL IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE.
DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE. TUBING SHALL BE STEEL CONFORMING TO ASTM A500 GRADE B. THE RAMP SURFACE SHALL BE 3/4" MARINE GRADE PLYWOOD.
RAMP AND LANDING SHALL HAVE A NON-SLIP (0.7 MIN C.O.F.) SURFACE FINISH APPLIED. NON-SLIP FINISH SHALL BE AMCOE GRIP II MANUFACTURED BY AMERICAN CHEMICAL CO. OR EQUIVALENT. ALL RAMP SURFACES SHALL BE PAINTED AS INDICATED IN SPEC SECTION 9E. RAMPS SHALL HAVE HANDRAILS ON BOTH SIDES. WALL MOUNTED HANDRAILS SHALL BE OF SIMILAR CONSTRUCTIONN TO THE INTEGRAL RAMP HANDRAIL.
RAMP AND LANDING SHALL BE FULLY SKIRTED WITH THE SAME MATERIAL USED FOR BUILDING SKIRT. SIDES OF RAMP AND LANDING THAT DO NOT ADJOIN BUILDING WALL SHALL BE SKIRTED. ALL EDGES OF THE PLYWOOD SKIRT SHALL BE SUPPORTED AND PROTECTED FROM WEATHER. FOUNDATION MEMBERS SHALL BE AS FOR BUILDING FOUNDATION. ONLY THE FOUNDATION PAD RESTING ON GRADE MAY EXTEND BEYOND THE OUTSIDE FACE OF THE SKIRT 1" MAXIMUM

FLOOR DECKING:

3/4" MARINE EXT. APA 48/24 PLYWOOD W/ NON-SLIP SURFACE. (SEE ALTERNATE) DECK SURFACES SHALL BE SEALED ON ALL SIDES. FASTENED TO STEEL FLOOR MEMBERS WITH #10-24 X 1 1/4" LONG PLY-METAL TYPE SCREWS @ 12" O.C.

ALT. FLOOR DECKING:

1. 11 GA SHEET METAL WITH NON-SLIP SURFACE.

GROUNDING OF BUILDING COMPONENTS:

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECCESSARY CONNECTORS TO GROUND THE METAL PORTIONS OF THE BUILDING (I.E. FRAME, RAMP, ETC.) GROUNDING ROD, WIRES AND TESTING SHALL BE PROVIDED BY OTHERS AND MEET THE REQUIREMENTS OF I.R. M-5 ISSUED BY DSA.

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems Inc.
787 Synergistic Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

LICENSED ARCHITECT No. C 12831 Ren. 5-31-05 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER Kenneth A. Luttrell No. 1416 EXP. 3-31-05 Structural Engineer STATE OF CALIFORNIA

CUSTOMER:

RAMP PLAN, ELEVATIONS AND DETAILS

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			4		
2			5		
3			6		

PROJECT No. 02156-01

SHEET No. S5R

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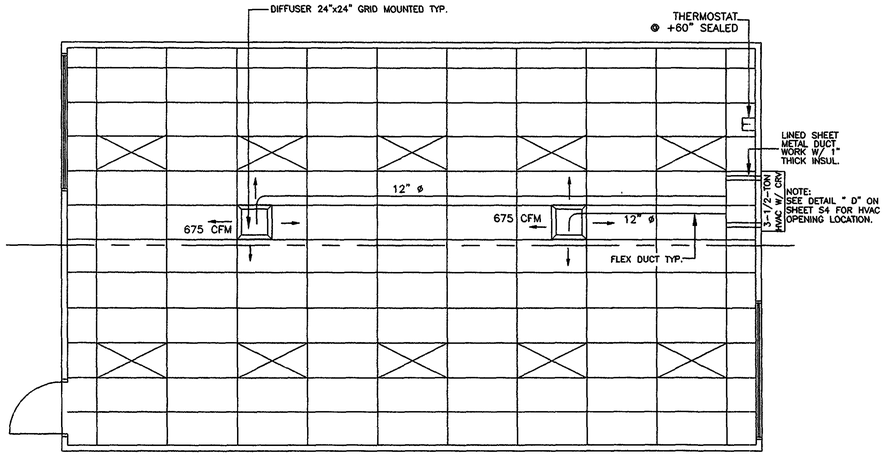
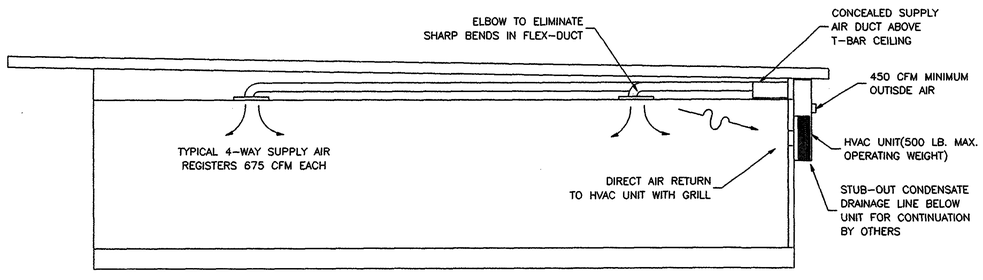


B / M1 HEAT/SUPPLY AIR DUCT LAYOUT

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



A / M1 HEAT/SUPPLY AIR DUCT CROSS SECTION

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

TITLE 24 ENERGY COMPLIANCE SUMMARY

PC # 02-104915

Note: See Title 24 Energy Compliance Report Booklet for More Details.

BUILDING DESCRIPTION: 24X40 Relocatable Building

Manufacturer: American Modular Systems

Zones: 14, 15 & 16

Envelope Measures

INSULATION

Roof: R-19 (Batt)

Wall: R-11 (Batt)

Floor: R-11 (Batt)

GLAZING

Panes: Dual U-Factor: 0.65

Frames: Metal SHGC: 0.34

Tinting: Solarban 60

Lighting Measures

Code:	Quantity:	Description:	Lamp/Ballast:	Total Watts:
A	8	(3) 4ft fluorescent T8 Elec Tandem	F32T8 / Electronic	704
b	2	(3) 4ft fluorescent T8 Elec	F32T8 / Electronic	226

Controls for Credit: Occ Sensor > 250 sq ft

Mechanical Measures

Modular:	Type:	Qty:	OSA:	Cooling Eff.:	Heating Eff.:
24x40	BARD WH602-A	1	710	10.20 SEER	7.00 HSPF

HP T-Stat: ■ Electric Heat (KW): 0.0 kw Duct Location: Conditioned Space

Economizer: ☐ Duct Insulation: R-4.2

HVAC CFM CHART

MODEL NUMBER	DISCRIPTION	MAX. CFM
WH421-A	3 1/2 TON HEAT PUMP	1400
~~WH482-A~~	~~4 TON HEAT PUMP~~	~~1556~~
~~WH602-A~~	~~5 TON HEAT PUMP~~	~~1700~~

NOTE
STUB OUT LOCATIONS FOR WATER, WASTE AND GAS ARE DIAGRAMITICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT THE FACE OF THE BUILDING.

DUCT SUPPORT
Flex duct to be supported with 1-1/2" wide x 26 ga. galv. strap @ max 6'-0" o.c. Attach to rafter W/2 #8 SMS @ each end.
Supply air plenum to be supported with 1-1/2" wide x 26 ga. galv. straps min. 2 per plenum.
Supply air box and diffusers to be supported with (2) 12 ga. hanger wires to box @ opposite corners.
Supply air box and diffusers to be braced with (2) 12 ga. slack wires to box @ opposite corners. Attach supply air diffusers to ceiling grid to resist a lateral load equal to the weight of the diffuser and supply air box W/2 #8 SMS.

THESE DRAWINGS COMPLY
WITH THE ENERGY CONSERVATION REQUIREMENTS
OF TITLE 24 OF THE STATE OF CALIFORNIA

GENERAL NOTES
HEATING VENTILATING AND AIR CONDITIONING (HVAC)

1. Heat Pump: Single package wall mounted air to air electric heat pump unit shall be rated in accordance with ARI Standard 240-77.
   Reference
   Brands: BARD WH421A-XXXXXX W/ CRV
   ~~BARD WH482A-XXXXXX~~
   ~~BARD WH60A-XXXXXX~~

   MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT

   All units shall be 230/208 volt, 1 phase system, UL tested & approved or comparable and meet current energy standards.

   A.) The system shall maintain an automatically controlled indoor classroom temperature of 78 degrees F. When the outdoor dry bulb temperature varies between 100 degrees F. in the summer
   B.) The system must maintain the above temperature when the damper is adjusted to use approximately one third fresh air.
2. Ductwork.
   A.) Construct all ductwork of galvanized sheet metal in accordance with C.M.C., Ashrae Guide Equipment volume and Smacna Low Velocity Duct Construction manual latest editions. All ductwork shall be insulated with 1" thick fiberglass duct wrap with vapor barrier. Provide 1" duct attenuation at all ductwork within 2'-0" of HVAC unit.

   B.) Non-metallic ductwork option: In accessible concealed portions of duct system rigid 1" fiberglass or insulated flex-duct with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 2' of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure.
   Reference Brands: Owens-Corning fiberglass ducttboard, 1" thick, and Micro-aire, TYPE 475.
   Non-metallic ductwork shall conform to NFPA 90-A and SMACNA Class 1 rating.
3. Air duct insulation and linings shall comply with flame spread less than or equal to 25, smoke generation less than or equal to 50.
4. Supply air diffusers shall be 675 CFM max. 12" round. 1" fiberglass or flexduct
   ductwork specifically designed to provide air thermal cooling systems. 24"x8"x1" Micro-Aire type #475 Owens-Corning, Knauf, Certainteed, or equal and 90- B: UL #131 test, class 1 rating with "SMACNA".
5. Registers and diffusers: Provide three (Min) 4-way throw air diffusers as manufactured Carnes, Titus, Hart and Cooley, Metalaire, Shoemaker, Barber-Coleman or Krueger commercial grade grills and registers
6. Air conditioning controls.
   Thermostat: Provide electronic programmable thermostat. Thermostat shall have the following functions.
   A.) 5 and 2 weekday/weekend programming with 4 separate time/temperature setting for 24-hour period.
   B.) Key board lockout switch.
   C.) Programmable display.
   D.) 2-hour override minimum.
   E.) Status Indicated Led's.
   F.) Battery back-up.
   Provide locking clear thermostat cover with thermostat cover with access hole for program override. White Rodgers IF92-371 @ +60" SEALED.
7. Thermal insulation
   A.) Roof Insulation: R-19 Unfaced.
   B.) Walls Insulation: R-11 Kraft Faced.
   C.) Floors Insulation: R-11 Kraft Faced.
   Flame spread and smoke development shall conform to California Building Code sec. 707.
8. Factory-made air ducts. Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of U.M.C. Standard No. 6-1. Each portion of a factory-made air duct system shall be identified by the manufacturer with a label or other suitable identification indicating compliancewith U.M.C. Standard No. 6-1 and its class designation. These ducts shall be listed and shall be installed in accordance with the terms of their listing and the requirements of UMC STD. 6-1.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC. FLS SS
DATE MAR 0 5 2009

REGISTERED PROFESSIONAL ENGINEER JOHN H. LAWLER No. 2310 MECHANICAL CALIFORNIA STATE OF CALIFORNIA

FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-106166
AC. FLS SS
DATE 04/13/04

BASED ON PC 02-104915

24 X 40
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CLASSROOMS

AMS American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

CUSTOMER:
WILLIAMS SCOTSMAN
SERAIL NO.s #04-904-120 THRU 04-904-319

MECHANICAL PLAN & NOTES

DATE: 03-30-04
SCALE: NONE
DRAWN BY: Y.A.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.

SHEET No. M1

Mechanical Mandatory Measures

Equipment and Systems Efficiency

☐ §111 Any appliance for which there is a California standard established in the Appliance Efficiency Regulations with comply with the applicable standard.

☐ §115(a) Fan type central furnaces shall not have pilot lights.

☐ §123 Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.

☐ §124 Air handling duct systems shall be installed and insulated in compliance with Sections 601, 603 and 604 of the Uniform Mechanical Code.

Controls

☐ §12(e) Each space conditioning system shall installed with one of the following:

☐ §122(E) Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of section 122(d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends; incorporate an automatic holiday "shut off" feature that turns off all loads for at least 24 hours, then resumes the normally scheduled operation; and has program backup capabilities that prevent the loss of the device's program and time settings for at least 10 hours if power is interrupted; or

☐ §122(a) An occupancy sensor to control the operating period of the systems; or

☐ §113(b) A 4-hour timer that can be manually operated to control the operating period of the system.

☐ §122(e) Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.

☐ §122(g) Each space conditioning system serving multiple zones with combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with devices, such as valves or dampers, that allow supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.

☐ §122 (A&B) Each space conditioning zone shall be controlled by an individual thermostatic control that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degF or lower. For cooling, the control shall be adjustable up to 85 degF or higher. Where used to control both heating and cooling, the control shall be capable of providing a dead band of at least 5°F within which the supply of heating and cooling is shut-off or reduced to a minimum.

☐ §122(c) Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.

☐ §122(b) Heat Pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone.

Ventilation

☐ §121(e) Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified in these plans.

☐ §122(f) Gravity or automatic dampers interlocked and closed on fan shutdown shall be provided on the outside air intakes and discharges of all space conditioning and exhaust systems.

☐ §122(f) All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.

☐ §121(f) Air Balancing: The system shall be balanced in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983), or Associated Air Balance Council (AABC) National Standards (1986); or

☐ §121(f) Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings, and shall be measured and certified by the installing licensed C-20 Mechanical contractor and certified by (1) the design mechanical engineer, (2) the installing licensed C-20 mechanical contractor, or (3) the person with overall responsibility for the design of the ventilation system; or

☐ §121(f) Outside Air Measurement: The System shall be equipped with a calibrated local or remote device capable of measuring the quantity of outside air on a continuous basis and displaying that quantity on a ready accessible displays; or

☐ §121(f) Another method approved by the Commission.

Envelope Mandatory Measures

☐ §118(a) **Installed Insulating Material** shall have been certified by the manufacturer to comply with California Quality Standards for Insulating material, Title 20

☐ §118(c) **All Insulating Materials** shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of the Title 24, Part 2

☐ §117(a) **All Exterior Joints** and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.

☐ §116(b) **Site Constructed Doors, Windows, and Skylights** shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).

☐ §116(a) **Manufactured Doors and Windows** installed shall have air infiltration rates not exceeding those shown in Table Number 1-E. of standards. manufactured fenestration products must be labeled for U-value according to NFRC procedures.

☐ §118(e) **Demising Walls in Nonresidential Buildings:** The Opaque portions of rates not exceeding those shown in framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-11 between framing members.

Mechanical Mandatory Measures – Cont.

Service Water Heating Systems

☐ §113(b) If a circulating hot water system is installed, it shall have a control capable of automatically turning off the circulating pump(s) when hot water is not required.

☐ §113(b) Lavatories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110°F.

☐ §113(b) Lavatories in restrooms of public facilities shall be equipped within of the following:

☐ Outlet devices that limit the flow of hot water to a maximum of 0.5 gallons per minute

☐ Foot actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute.

☐ Proximity sensors actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute

☐ Self-closing valves, and outlets devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.25 gallons/cycle (circulating system).

☐ Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.50 gallons/cycle (non-circulating system)

☐ Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.75 gallons/cycle (foot switches and proximity sensor controls).

Pools and Spas

☐ Pool and/or spa heating systems or equipment shall be installed only if the manufacturer has certified that the system or equipment meets the requirements of *114 and *115 of the Energy Efficiency Standards. Equipment shall not have a pilot light. All such systems shall be installed with at least 36" of pipe between the filter and the heater to allow for the future addition of solar heating equipment.

☐ A cover shall be provided for outdoor pools.

☐ A cover shall be provided for outdoor spas.

☐ Pools shall be installed with directional inlets that adequately mix the pool water.

☐ Pool circulation pump(s) shall be provided with a time switch that allows the pump to be set to run in the off-peak electrical demand period, and for the minimum time necessary to maintain the water in the conditions required by applicable public health standards.

Lighting Mandatory Measures

☐ §131(d)1 **For every floor, all interior lighting** systems shall be equipped with a separate automatic control to shut off the lighting. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutting off the lighting.

☐ §131(d)2 **Override for Building Lighting Shut-Off** The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.

☐ §119(h) **Automatic control Devices Certified** All automatic devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.

☐ §113(b) **Fluorescent Ballast and Luminaries Certified** All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.

☐ §132 **Tandem Wiring for One and Three Lamp Fluorescent Fixtures:** All one and three lamp fluorescents fixtures are tandem wired with two lamp ballasts were required by Standards Section 132; or all three lamp fluorescents fixtures are specified with electronic high-frequency ballasts and are exempt from tandem wiring requirements.

☐ §131(a) **Individual Room/Area Controls:** Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.

☐ §131(b) **Uniform Reduction for Individual Rooms** All rooms and areas greater than 100 square feet and more than 0.8 watts per square foot of lighting shall be controlled with Bi-level switching for uniform reduction of lighting within the room.

☐ §131(c) **Daylit Area Control** All rooms with windows and skylights, that are greater than 250 square feet, and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separate switch; or The effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of year is included on plans.

☐ §131(f) **Control of Exterior Lights** Exterior mounted fixtures and served from the electrical panel inside the building are controlled with a directional photo cell control on the roof and a corresponding relay in the electrical panel.

☐ §131(e) **Display Lighting: Display lighting** Exterior mounted fixtures and served shall be separately switched on circuits that are 20 amps of less.

REGISTERED PROFESSIONAL ENGINEER JOHN H. LAWLER No. 2310 Exp. 3/31/10 STRUCTURAL STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 1 1 2 3 1 7 AC ___ FLS ___ SS ___ DATE MAR 0 5 2009

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 02 106166 AC ___ FLS 02-53 SS ___ DATE 6/13/04

FILE NO. PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 02-104915 AC ___ FLS ___ SS ___ DATE ___

24 X 40
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American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

CERTIFIED ARCHITECT 3-3-05 DATE STATE OF CALIFORNIA

CUSTOMER:

ENERGY MANDATORY MEASURES

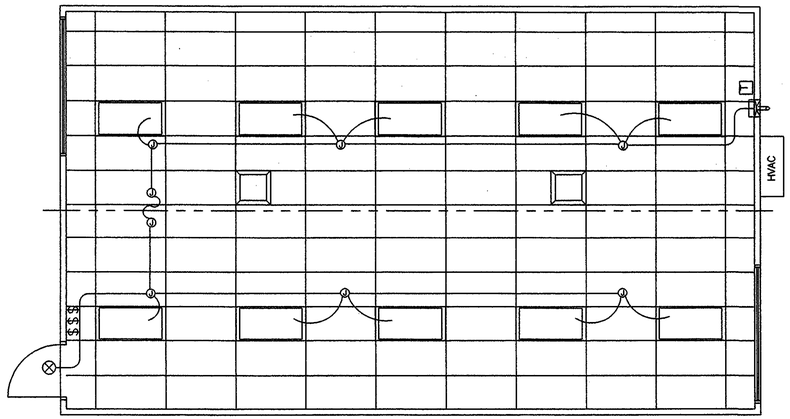
DATE: 06-12-03
SCALE: NONE
DRAWN BY: Y.A.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

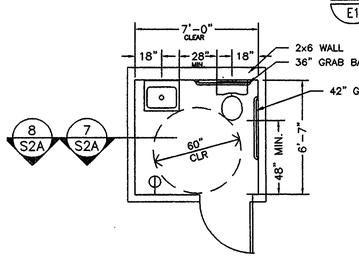
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			4		
2			5		
3			6		

PROJECT No.

SHEET No. M 2

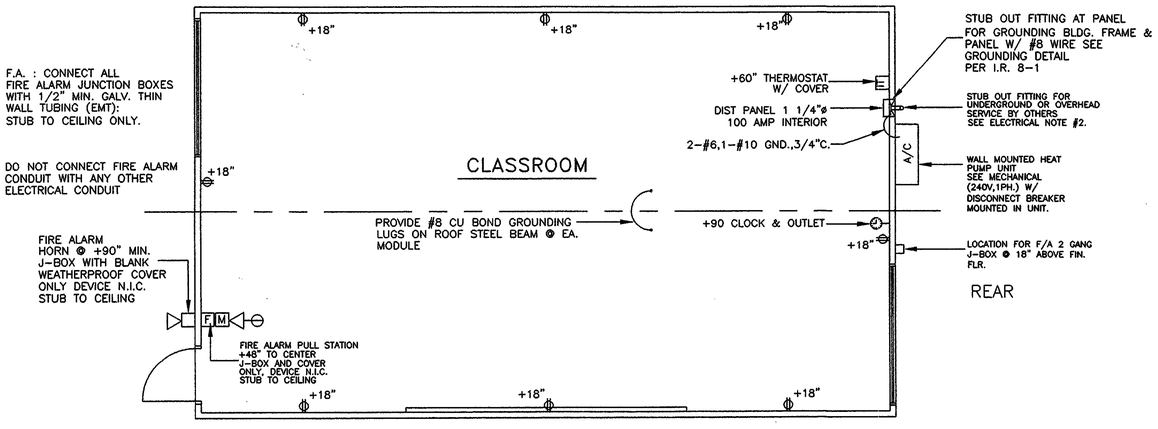


1 / E1 LIGHT FIXTURE PLAN
1/4" = 1'-0"



6 / 4 RESTROOM FLOOR PLAN (OPTIONAL)
1/4" = 1'-0"

The H.V.A.C. unit feeder circuit – panel circuit breaker, feeder wire, unit disconnect and fuses (where used) – is to be coordinated with the name plate data at the time ofmanufacture. H.V.A.C. units having KVA ratings larger than that indicated on this panel schedule will not be allowed to be installed on this building. If 60 degrees C. wire is to be used in this installation, calculations demonstrating ampacity be provided on the drawing.



2 / E1 ELECTRICAL PLAN
1/4" = 1'-0"

FIRE ALARM
Junction boxes – Galvanized sheet metal, square or rectangular with blank covers. Locate one box at rear of building near main electrical panel at +18- above finish floor for future connection.
Covers – Install gasketed, metal, waterproof, finish covers at exterior locations. Install finish covers at interior locations.

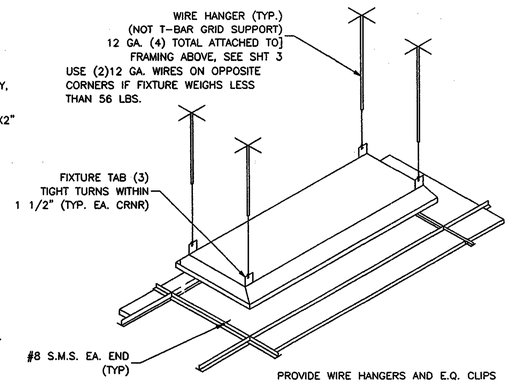
If testing results determine fire alarm audibility does not meet 15db over ambient noise levels, additional fire alarm signaling devices may be required by the enforcing anency

STANDARD ELECTRICAL SYMBOLS

- FLUORESCENT LIGHTING FIXTURE – SURFACE MOUNTED.
- FLUORESCENT LIGHTING FIXTURE – RESCESSED.
- FLUORESCENT LIGHTING FIXTURE – WALL MOUNTED (EXTERIOR)
- INCANDESCENT LIGHTING FIXTURE – WALL MOUNTED (INTERIOR).
- DUPLEX WALL CONVENIENCE OUTLETS +18".
- SINGLE POLE LIGHT SWITHCES +48", HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- ELECTRICAL CROSSOVER J-BOXES ABOVE T-BAR CEILING #1-4"X1", #22 4"X2"
- WALL CLOCK OUTLET WITH POWER OUTLET +84".
- SWITCH SUBSCRIPTS – a=DEVICE CONTROLLED.
- 15 AMP DUPLEX RECEPTACLE +18".
- JUNCTION BOX – SIZE AND TYPE AS REQUIRED.
- PANELBOARD – SEE SCHEDULE.
- TERMINAL CABINET – SIZE AND TYPE AS NOTED.
- CONDUIT CONCEALED IN CEILING OR WALL.
- CONDUIT CONCEALED BELOW FLOOR OR GRADE.
- HOMERUN TO RESPECTIVE PANEL TO TERMINAL.
- INDICATES 1#14 (GREEN) GROUND WIRE, OTHER SIZES AS INDICATED.

NOTE: BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION IS A 2#14 WIRE CIRCUIT, FOR MORE THAN 2#14 WIRES AS FOLLOWS, -III- 3#14, -IIII- 4#14 ETC. FOR OTHER SIZES AS FOLLOWS, -III-10 3#10, -III-6 4#6 ETC.

- (A) FIXTURE IDENTIFICATION – LETTER INDICATES TYPE.
- N.I.E.S. ABBREV. FOR NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPEC'S.
- MT ABBREV. FOR EMPTY CONDUIT WITH POLY PULL CORD.
- FUSED DISCONNECT SWITCH SIZE AS REQUIRED. PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT SUPPLIER.
- [W.E.F.] WALL MOUNTED EXHAUST FAN N.I.E.S. CONNECT AS REQUIRED.
- 50 AMP 250 VOLT RANGE RECEPTACLE.
- F FIRE ALARM STATION – OUTLET ONLY, 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"CENTERLINE
- FIRE ALARM HORN – OULET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.
- FIRE ALARM VISUAL ALARM– OUTLET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER BOTTOM +80". A.F.F. BUT NO GREATER THAN +96". IF CEILING MOUNTED PER NFPA72 TABLE 6-4.4.1(b).
- SPEAKER– OUTLET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"
- INTERCOM TELEPHONE– OUTLET ONLY– 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"
- M FIRE ALARM MINI HORN – OULET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.



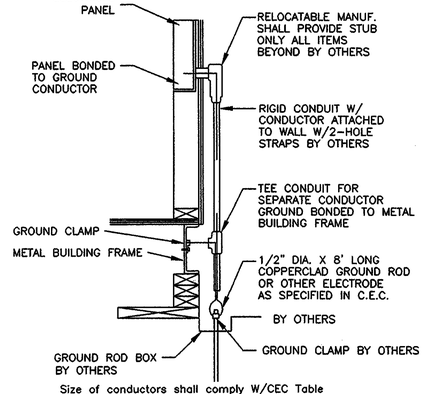
SUPPORT DETAIL

PROVIDE WIRE HANGERS AND E.Q. CLIPS AS REQUIRED BY CALIFORNIA SEISMIC REGULATIONS CBC 2501.A.5 & IR. M-3

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
	2'X4' FLOURESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS. T-8 ELECTRONIC BALLASTS (3)35 WATT TUBES, WT. 27 LBS.	SP41 32 W	CRESCENT MASTER 24GP332FSA11KOYU1 SLAVE 24GP332FSA11XXXV6
	FLOURESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE. .125 THICK CLEAR PRISMATIC ONE PIECE LENS W/ NEOPRENE GASKET & "POSIGRIP" STAINLESS STEEL SCREWS.	(2) 7W TT 2700 K	KENALL 3714 OR LITHONIA 202 2/7PL LP

SEE TYPICAL CLASSROOM LAYOUT FOR LOCATIONS OF ALL DEVICES.
FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.

THE LIGHTS FOR EACH ROOM OVER 250 SQUARE FEET SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR. WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE. IN CONJUCTION WITH BI-LEVEL SWITCHING.



Size of conductors shall comply W/CEC Table
Bond separate conductors from ground rod to electrical panel & metal building from.
In addition to the detail shown above, bond the electrical ground to metal water pipe embedded @ least 10' into the soil if available.
Electrical bond modules together W/#8 CU @ modline. By manufacturer. Check resistance to ground. If resistance exceeds 25 OHMS, install additional ground rods as required. Grounding detail per I-R M-3
INSPECTOR TO WITTNESS GROUNDING TEST.

A / E1 BUILDING GROUND DETAIL
N.T.S.

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITRCT.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC
2. ALLOW FOR 12' MOVEMENT IN ANY DIRECTION IF PAD FOUNDATION IS USED.
3. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
4. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

FIXTURE NOTES:
1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINATES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

ELECTRICAL
1. Electrical service drop and connections supplied by others.
2. Manufacturer to provide stub-out from back of electrical panel through the exterior wall for receiving either underground or overhead service & fitting for grounding cable.
3. Electrical panel board shall be recess mounted inside the building. Sized to accommodate all connected loads including spaces as shown. Overcurrent protective devices in the panel boards have adequate short circuit interrupting capacity. All buses including bus shall be copper or aluminum.
4. 2x4 Flourescent fixtures shall be steel frame, lens shall be hinged and locked in place by two locking devices. The lens diffusers shall be KHS, Inc. #KSH-12, Carolite, Inc. #C-12 or Plaskolite, Inc. #PL21A. Minimum lens thickness shall be .125 inch.
5. Flourescent ballast shall be energy saver while maintaining full light output, class "P" equipped with thermal protectors, guaranteed against failure for (2) years and be replaced from inside the fixture.
6. Clock – 12" dial clock on clock outlet.
   A) Clock shall be General Electric model 2912 129V 60 cycle
   B) Clock outlet shall be Bryant #2828 or equal with seperable hanging clip & app'd recept.

120/208 VOLT IS EXCEPTABLE

VOLTS: 120/240 SINGLE PHASE			PANEL: A					FEED: EXTERIOR LB			
MAIN: 100 AMP MAIN BKR.			LOCATION: INTERIOR					MOUNTING: FLUSH			
LOAD	WATTS A	WATTS B	BRK. AMP	C I R	A	B	C I R	BRK. P	AMP	WATTS A	WATTS B	LOAD
LIGHTS, FLUORESCENT	570		15	1	1		2	2	70	6600		A/C HVAC UNIT
LIGHTS, FLUORESCENT		570	15	1	3		4	2	70		6600	
EXTERIOR LIGHT & CLOCK	100		15	1	5		6					SPACE
DUPLEX RECEPT.		720	15	1	7		8					
DUPLEX RECEPT.	720		15	1	9		10					
SPACE				11			12					
				13			14					
				15			16					
PHASE WATTAGE	1390	1290		17			18			6600	6600	PHASE WATTAGE
TOTAL WATTS "A"LEG: 7990			TOTAL WATTS A+B= 15880					TOTAL WATTS "B" LEG 7890				
TOTAL WATTS: 15880		67 AMPS	120/240V					SINGLE PHASE				100AMP BUS.

FEEDERS: TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

3 / E1 ELECTRICAL DISTRIBUTION PLAN
1/4" = 1'-0"

NOTE
STUB OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES. LOCATIONS SHOWN ARE DIAGRAMITICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.

NOTE:
THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT AND SMOKE DETECTORS WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575

REGISTERED PROFESSIONAL ENGINEER No. 23101 Exp. 3-31-05 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2004
BASED ON PC 02-104915

FILE NO.
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
02-106166
AC FLS SS
DATE 4/13/04

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

CUSTOMER:
WILLIAMS SCOTSMAN
SERAIL NO.s #04-904-120 THRU 04-904-319

ELECTRICAL PLAN & NOTES

DATE: 03-30-04
SCALE: NONE
DRAWN BY: Y.A.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			5		
2			6		
3			7		
4			8		

PROJECT No.

SHEET No. E1

JOB# 4736

MODULAR CLASSROOM BUILDING

FOR WILLIAMS SCOTSMAN

BUILDING SIZE: 24'x40'(50 UNITS)

STOCKPILE

DGS State of California • Department of General Services • Gray Davis, Governor
DIVISION OF THE STATE ARCHITECT
Headquarters• 1130 K Street, Suite 101 • Sacramento, CA 95814 • (916) 445-8100

PC-04-104796

STRUCTURAL TESTS AND INSPECTIONS

Testing Laboratory: | Date: | File Number:
Name: | | Application Number:
District Office:
Architect:
Structural Engineer:

The following tests and inspections, as checked, will be required as identified in applicable specifications.

CONCRETE/ FILL	Concrete	Gunite	Grout	Mortar	
☐ Fill material, acceptance tests					Test of aggregates for mix design only
☐ Compaction control, continuous					Suitability tests of aggregates as detailed below
☐ Compaction tests only as ordered					Mix designs
☐ Bearing capacity of compacted fill					Continuous batch plant inspection
REINFORCING STEEL					Inspect placing
☐ Sample and test bar steel					Sample
☐ Sample and test mesh					Compression tests
☐ Inspect placing at job					Pick up samples at job
STRUCTURAL STEEL					Samples delivered to laboratory
☒ Sample and test as detailed below					Deliver sample forms to job site
☒ Shop fabrication inspection					Sample and test cement
☐ Field erection inspection					
☒ Inspection of welds - Shop					
☐ Inspection of welds - Field					
☐ Inspection of riveting or bolting - Shop					
☐ Inspection of riveting or bolting - Field					
☐ Sample and test high strength bolts and washers					
MASONRY/ BLOCK					
☐ Sample and test					
☐ Test only					
☐ Inspection of placing					
☐ Core drill samples					
GLUED LAMINATED STRUCTURAL LUMBER					
☐ Fabricating inspection					
☐ Sample and test steel connectors					
☐ Inspect fabrication of steel connectors					

Suitability Tests	Concrete	Gunite	Grout	Mortar
☐ Sodium sulphate				
☐ Structural strength				
☐ Los Angeles rattler				
☐ Clay (Hydrometer method)				
☐ Reactivity tests				
☐ Volume change				

Mix designs: Concrete, Gunite, Mortar, or Grout

Material	Maximum Size	Compressive Strength, PSI, Minimum						

List of structural steel members to be tested:
ALL UNIDENTIFIED STEEL PER CBC CHAPTER 22A(MILL CERTS)

Is this list continued on reverse? ☐ YES ☐ NO

Other tests and inspections, together with special instructions:
SEE S1.0 NOTES

Copies of reports to: OPSC, AOR

Are these instructions continued on reverse? ☐ YES ☐ NO

By: _____ Authorized Representative

DSA 103-T (Revised 6/98)

(Old 101419)

BUILDING DATA

STRUCTURAL DESIGN: ORDINARY MOMENT RESISTANT FRAME
TYPE OF CONSTRUCTION: V-N
WIND LOAD (EXP C): 80 MPH
SEISMIC ZONE 4, SEISMIC SOURCE TYPE A, DISTANCE ≤1.25 MILES
Z = .4 I = 1.0 Cv = 1.28 Nv = 2.0
R = 4.5 Ca = 0.66 Na = 1.5 SOIL TYPE = S_D
FLOOR LIVE LOAD: 50 PSF
ROOF LIVE LOAD: 20 PSF
OCCUPANCY: 24'x40' CLASSROOM: E-2
BUILDING AREA: 24'x40' BUILDING = 960 SF
-COMPLIES WITH CLIMATE ZONES 1-15
THIS PC IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.

APPLICABLE CODES

2001 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, 2, AND 3 (PART 2, TITLE 24, CCR)
(1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ELECTRICAL CODE (CEC), (PART 3, TITLE 24, CCR)
(1999 EDITION NATIONAL ELECTRICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, CCR)
(2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, CCR)
(2000 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS.

LEGEND

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

ABBREVIATIONS

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

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

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SHEET INDEX

ARCHITECTURAL

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A1.1 FLOOR PLAN
~~A1.2 [illegible]~~
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~~A2.02 REFLECTED CEILING PLAN (10 LIGHTS)~~
~~A2.03 REFLECTED CEILING PLAN (12 LIGHTS)~~
A2.04 REFLECTED CEILING PLAN (12 LIGHTS)
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A3.01 ROOF PLAN 22 GA.
~~A3.02 ROOF PLAN 26 GA.~~
A3.03 ROOF DETAILS
A4.01 EXTERIOR ELEVATIONS (DUAL PITCH) W/ FASCIA
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A5.02 INTERIOR ELEVATIONS
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~~A8.0 SPECIFICATIONS~~
~~A8.1 SPECIFICATIONS~~
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~~S2.1 ROOF FRAMING DETAILS (TYP.)~~
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~~S3.01 STRUCTURE ELEVATIONS & DETAILS (DUAL PITCH) W/O FASCIA~~
~~S3.02 STRUCTURE ELEVATIONS & DETAILS (DUAL PITCH) W/O FASCIA~~
~~S4.0 WALL FRAMING (WOOD)~~
~~S4.0M WALL FRAMING (METAL)~~
~~S4.1 WALL FRAMING (WOOD)~~
~~S4.1M WALL FRAMING (METAL)~~
~~S5.0 WALL FRAMING DETAILS (WOOD)~~
~~S5.0M WALL FRAMING DETAILS (METAL)~~
~~S5.1 WALL FRAMING DETAILS (WOOD)~~
~~S5.1M WALL FRAMING DETAILS (METAL)~~
~~S5.2 WALL FRAMING DETAILS (WOOD)~~
~~S5.2M WALL FRAMING DETAILS (METAL)~~

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~~M1.01 MECHANICAL (HVAC) PLAN - 5 TON~~
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~~E1.02 ELECTRICAL PLAN~~
E1.03 ELECTRICAL PLAN
~~E1.04 ELECTRICAL PLAN~~

RAMP

~~R1.01 1 FOOT RAMP/LANDING PLAN~~
R1.02 RAMP/STAIRS DETAILS
~~R2.01 8FT RISE RAMP/LANDING PLAN~~
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~~R4.01 CONCRETE RAMP/LANDING~~
R5.01 5 FOOT RAMP/LANDING PLAN, 11" RISE/RUN
~~R5.02 5 FOOT RAMP/LANDING, [illegible]~~

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APP03 1 1 2 3 1 7
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DATE MAR 0 5 2003

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OFFICE OF REGULATION SERVICES
04 105455
AC. ARCH. FLS. STRUCT. SS. NB
DATE JUL 1 7 2003
RE: P.E. COREY
AE: A.M. SMITH
SS: V. GARCIA

FILE PATH:

PC
CBC 2001

NOTES

SECTION 2213A.4.1 OF THE 2001 CBC
ALL WELDS IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT MINUS 20 DEGREES F.

IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
04 10 34
AC. ARCH. FLS. STRUCT. SS.
DATE JUL 10 2003
ACS: XAVIER DUEZO, Architecture, LLP

REVISIONS			Electrical Engineer's Seal	Mechanical Engineer's Seal	PC Professional of Record Seal	Architects Seal
1					LICENSED ARCHITECT PHILIP WALLACE WALLACK Reg. C-24858 7-31-03 RENEWAL DATE STATE OF CALIFORNIA	
2						
3						
4						
5						

IDENTIFICATION STAMP
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PC-04
104796
AC. ARCH. FLS. STRUCT. SS.
DATE 5/4/03

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

PROJECT NUMBER: 4736
WILLIAM SCOTTSMAN

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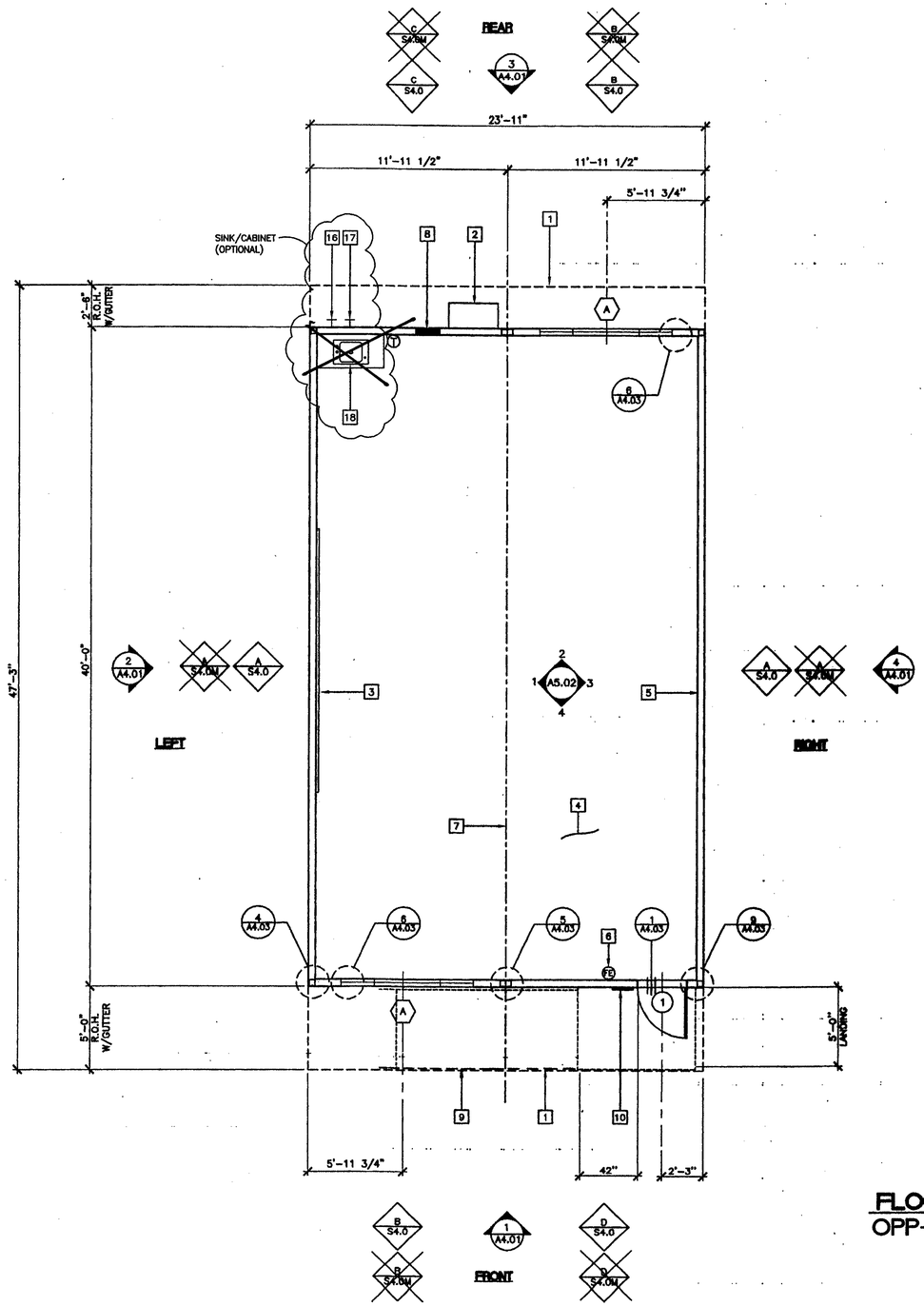
COVER SHEET

DRAWN BY: CL
DATE: 07/07/03
CHECKED BY:
DATE:
MODTECH Series No.
A.0

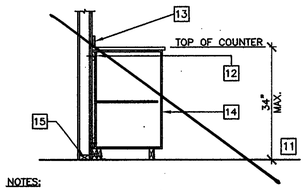
PROJECT NO. 4736
PC-04-104796



FLOOR PLAN
OPP-HAND

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

24x40

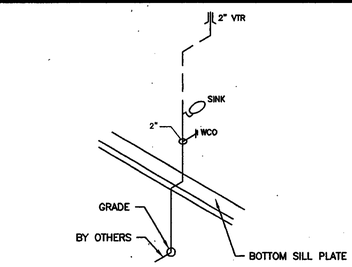


NOTES:
1. SEE PLANS AND ELEVATIONS FOR EACH SPECIFIC DESIGN.
2. REMOVE TOE KICK AND BASE FOR ACCESSIBLE CONDITION
3. PROVIDE U SHAPED WIRE PULLS AT ALL ACCESSIBLE CASEWORK OR EQUAL.

(OPTIONAL)

SCALE: NTS

BASE CABINET ANCHORAGE | 1

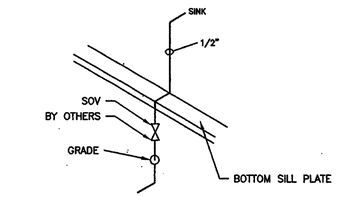


(OPTIONAL)

SCALE: NTS

PIPE SHALL BE TYPE ABS

SINK CABINET WASTE | 2



(OPTIONAL)

SCALE: NTS

PIPE SHALL BE TYPE 'L' COPPER

SINK CABINET COLD WATER SUPPLY | 3

KEY NOTES

1. ROOF OVERHANG
2. HVAC UNIT (HV)
3. 2 – 8'x4' PORCELAIN STEEL MARKER BOARDS (SEE SPEC'S FOR TYPE)
4. FINISH FLOORING (FIN)
5. INTERIOR FINISH (FIN)
6. FIRE EXTINGUISHER – 5 LBS DRY CHEMICAL WITH 2A–10BC UL RATING WALL MOUNTED BRACKET, HANDLE AT 48" AFF
7. MODLINE (M)
8. ELECTRICAL PANEL
9. RAMP/LANDING (RAMP) SEE RAMP DRAWINGS
10. SIGNAGE PROVIDED AND INSTALLED BY DISTRICT PRIOR TO OCCUPANCY, SEE A6.02
11. FINISH FLOOR
12. 4"x22 GA CONTINUOUS METAL STRAPS WITH #14 STSMS AT 24" OC
13. BACK SPLASH
14. BASE CABINET
15. BOTTOM PLATE
16. COLD WATER P.O.C. SEE DETAIL# 3
17. WASTE P.O.C. SEE DETAIL# 2
18. ~~CLASSROOM SINK, TYP. SEE A6.02~~ ~~SINK, CRAC ADA 1725-A 6R~~ ~~FAUCET, CHICAGO 350, BUBBLER, 350 18~~

(OPTIONAL)

NOTES

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

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FILE PATH:

PROJECT NO. 4736

PC-04-104796

REVISIONS	Electrical Engineer's Seal	Mechanical Engineer's Seal	PC Professional of Record Seal	Architects Seal
1			LICENSED ARCHITECT No. C-18439 12/31/05 RENEWAL DATE STATE OF CALIFORNIA	
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MODTECH INC.™
2830 BARRETT AVENUE FAX (909) 943-4014
PERRIS, CALIF. 92572 FAX (909) 940-0427

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WILLIAM SCOTTSMAN

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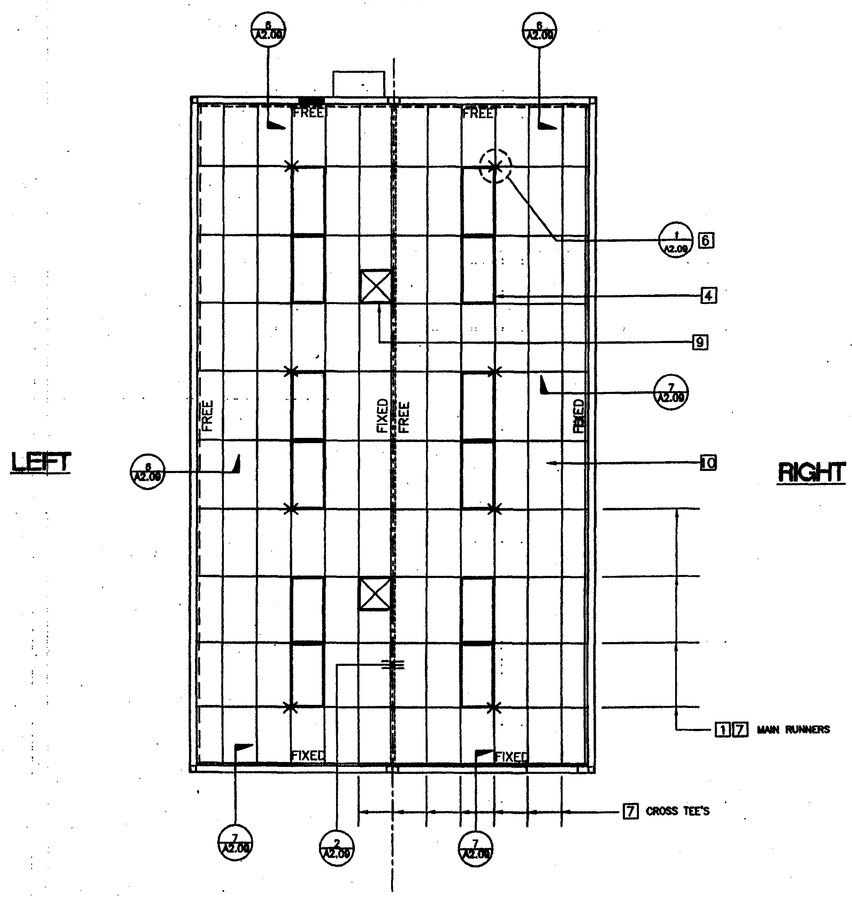
MODTECH Index No.

FLOOR PLAN

A1.1

REAR



LEFT

RIGHT

FRONT

REFLECTED CEILING PLAN (24'X40')
OPP-HAND

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

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JUL 17 2003

KEY NOTES

1. MAIN RUNNERS @ 4'-0" W/12GA. HANGER WIRES @ END OF EACH RUNNER.
2. AT THE END OF ROWS OF RUNNERS A 12GA. HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF WALL OR SOFFIT.
3. VERTICAL WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTERBRACING WIRES.
4. PROVIDE 2-12GA. SLACK WIRES TO HOUSING OF ALL LIGHT FIXTURES AT DIAGONAL CORNERS. WIRES SHALL BE ATTACHED TO STRUCTURE OF LIGHT FIXTURES: 2 X 4 RECESSED, ATTACH FIXTURE TO GRID W/1-#8 SHEET METAL SCREW AT EACH CORNER.
5. RUNNERS MAY BE ATTACHED TO WALLS OR MOLD AT 2-ADJACENT WALLS, OTHER WALLS NO ATTACHMENT. CLEARANCE OF 1/2" BETWEEN END OF RUNNERS AND FACE OF WALL.
6. CEILING AREAS SHALL HAVE 2/4-WAY SPLAYS PER DETAIL 1 ON SHEET A2.09 IN LOCATIONS INDICATED ON DRAWINGS. WIRES TAUT BUT NOT TO DISTORT GRID.
7. T-BAR PART NUMBERS

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

8. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES.
9. REGISTERS SHALL BE POSITIVELY ATTACHED W/4-10GA. SHEET METAL SCREWS. (TYP. 1- @ EA. CORNER)
10. CEILING PANELS: 2910

LEGEND

- T & T BAR CEILING
- 2'X 4' ELEC. FIXTURE RECESSED
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- SPLAY WIRE 4 WAY
- INDICATES FIXED SIDE (SEE DETAIL 7/A2.09)
- INDICATES FREE SIDE (SEE DETAIL 6/A2.09)

FILE PATH:

REVISIONS			
1	GL	ADDED & MODIFIED REFLECTED CLG.	7/9/03
2			
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Electrical Engineer's Seal

Mechanical Engineer's Seal

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LICENSED ARCHITECT
HANS JOACHIM MILLOCK
No. C-30809
12/31/04
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REFLECTED CEILING PLAN 12 LIGHTS

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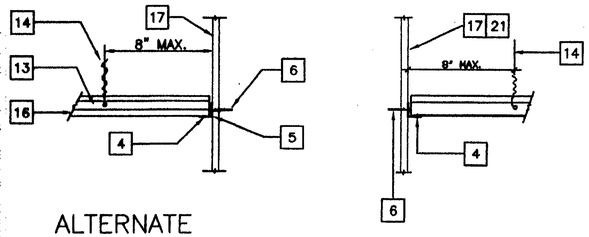
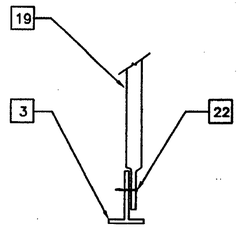


ALTERNATE

TYPICAL FIXED SIDE

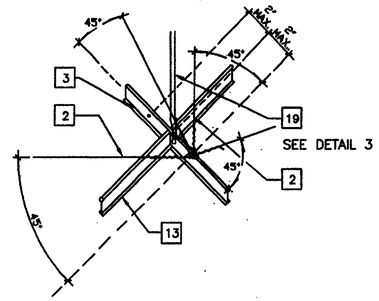
7



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

ALT. CONN. AT BOTTOM

4

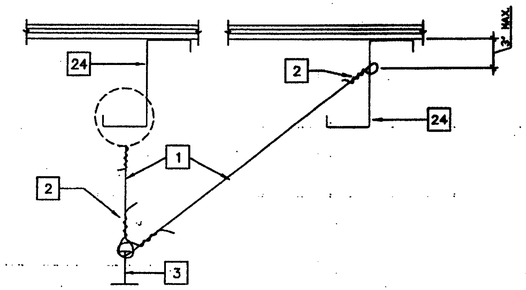


SIESMIC SPLAY - 4 WAY

1

KEY NOTES

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



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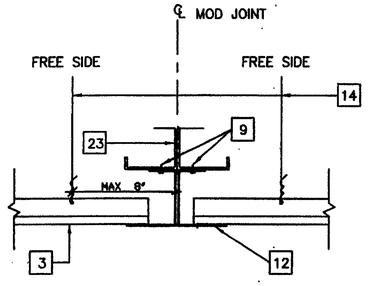
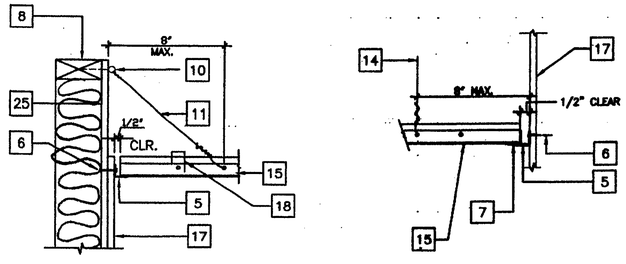


NOTE: LAY-IN CEILING TILE NOT SHOWN FOR CLARITY.

GRID AT MOD LINE

SCALE 3"=1'

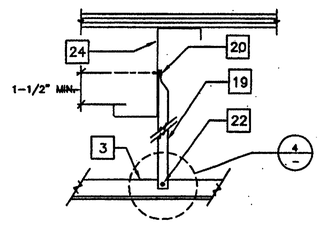
2



ALTERNATE

TYPICAL FREE SIDE

6



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

3

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04 [illegible] 84
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Note:
1. FIRE BLOCKING TO BE PROVIDED AT CEILING LEVEL AT ALL WALLS. FIRE BLOCKING MAT OF WOOD, GYPSUM BOARD, CEMENT FIBER BOARD OR BATTS OR BLANKETS OF MINERAL OR GLASS FIBER INSULATION PER CBC SECTION 708.2.2.

FILE PATH:

PROJECT NO. 4736

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REVISIONS	Electrical Engineer's Seal	Mechanical Engineer's Seal	PC Professional of Record Seal	Architects Seal
1			No. C-24608 12/31/04 RENEWAL DATE STATE OF CALIFORNIA	
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REFLECTED CEILING DETAILS

A2.09

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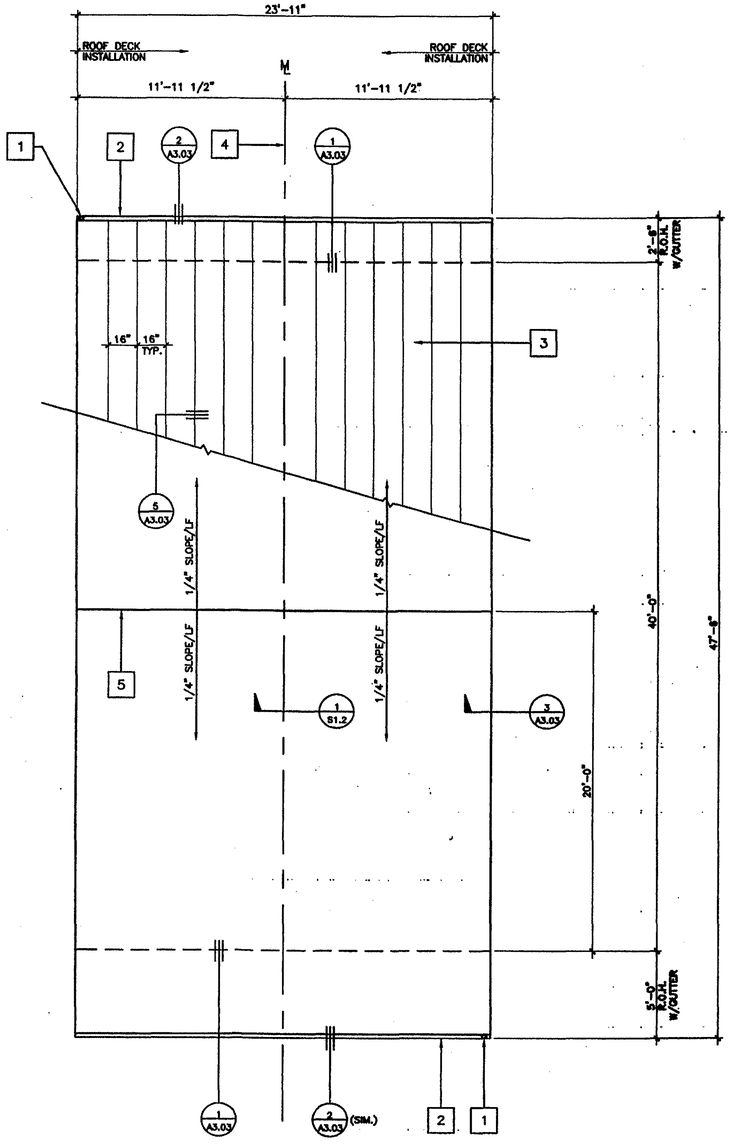

LEFT

RIGHT

FRONT

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

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

KEY NOTES

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

NOTES

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

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Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal

LICENSED ARCHITECT FRED WILLIAM MILLIGER No. C-24888 RENEWAL DATE 8/31/03 STATE OF CALIFORNIA

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ROOF PLAN

A3.01

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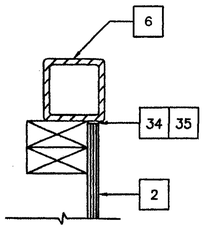
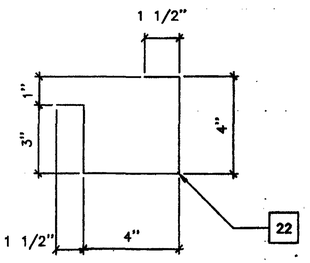
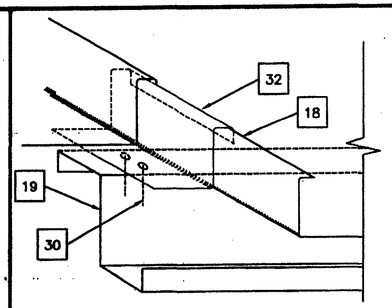


17 EXT. FINISH TO COLUMN

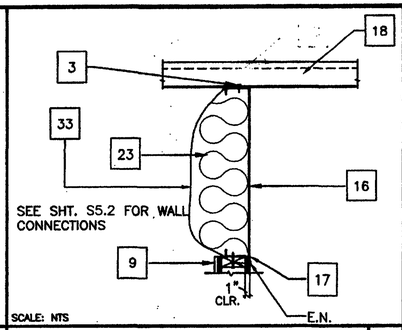


SCALE: 3"=1' CONT. GUTTER 26GA. AT FRONT

13 CONT. GUTTER AND CLOSURE



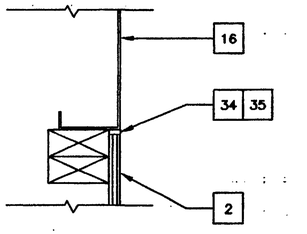
9 ROOF STANDING SEAM



SCALE: NTS

5 END WALL AT ROOF

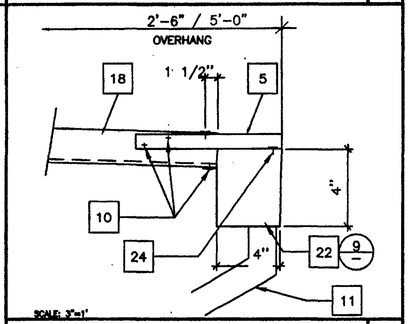
1



18

14 EXT. FINISH TO BEAM/HEADER

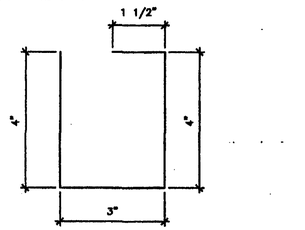
10



SCALE: 3"=1'

GUTTER • ROOF HEADER

2

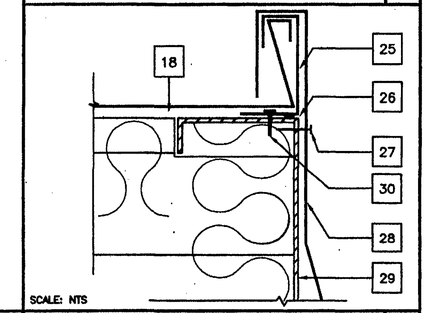


SCALE: NTS CONT. GUTTER 26GA. AT REAR

19

15 CONT. GUTTER AND CLOSURE

11



SCALE: NTS

6 ROOF FLASHING AT SIDE WALL

3

20

16

12

8

4

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AC FLS SS
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KEY NOTES

1	TYP. INTERIOR FINISH
2	TYP. EXTERIOR FINISH
3	#14STSMS X 3/4" W/NEO WASHER 3 PER PAN MAX 6" O.C. AT HEADER FRONT AND REAR
~~4~~	~~2X4 STUD TYP. 16" O.C.~~
5	1 1/2"X1 1/2" X 22GA ∠ CLIP AT 32" O.C.
6	TUBE STEEL SEE [STR]
7	NOT USED
8	SEALANT TYP. (SEE SPECIFICATIONS)
9	EXTERIOR WALL (SEE S5.0 FOR CONNECTIONS)
10	#14 STSMS AT EA STANDING RIB (16" OC)
11	DOWNSPOUT
~~12~~	~~#8 STSMS 1 AT EA SIDE OF DOWNSPOUT TO BRACKET~~
13	NOT USED
~~14~~	~~ATTACHMENT BRACKET(TYP 3 PLACES: TOP, BOTTOM & MIDSPAN W/ 2 #10 STSMS, BRACKET TO STUD) SEE NOTE AT DETAIL 8~~
~~15~~	~~2 X 4 SILL PLATE PER 4/S5.1~~
16	ROOF HEADER SEE [STR]
17	1/4" GAP w/ 3/8" DIA BACKER ROD 1/4" CAULKING/COLOR CAULK, MATCH PAINT
18	STANDING SEAM ROOF (SEE A3.01 FOR GA.)
19	ROOF PURLIN SEE [STR]
~~20~~	~~FLOOR BEAM SEE [STR]~~
~~21~~	~~22GA GALV. FLASHING (AT BELOW GRADE CONC. FOUNDATION ONLY)~~
22	CONTINUOUS 26GA. GUTTER (SEE DETAIL #9)
23	INSULATION (SEE SPECS FOR TYPE AND SIZE)
24	#14 STSMS AT EACH CLIP (32" O.C.)
25	22 GA STARTER/END ROOF CLIP—DETAIL #3
26	1/4" CONTINUOUS BEAD OF SEALANT AROUND ENTIRE PERIMETER OF FRAME
27	#10 STSMS WITH NEOPRENE WASHER FOR FLASHING INTO ROOF BEAM @ 24" O.C.
28	26 GA GALVANIZED IRON FLASHING AT SIDE WALL
29	C 14x12 GA HEADER
30	(2) BZH [illegible] OTIS KNURLED DRIVE PINS ROOF CLIP TO EACH PURLIN, TO ROOF BEAM AND TO HEADER. (PURLINS @ 4.0 O.C.)
~~31~~	~~22 GA STANDING SEAM ROOF PAN~~
32	22 GA ROOF CLIP (AT EA. PURLIN)
33	PROVIDE VAPOR BARRIER OVER INSULATION AT ROOF BEAMS AND CEILING
34	1/4" GAP w/ 3/8"ø BACKER ROD
35	1/4" CAULKING/COLOR CAULK, MATCH PAINT

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Electrical Engineer's Seal

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LICENSED ARCHITECT FRED WINSTON HALLOCH No. C-24628 12/31/08 RENEWAL STATE OF CALIFORNIA

Architects Seal

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PROJECT NUMBER: 4736

WILLIAM SCOTTSMAN

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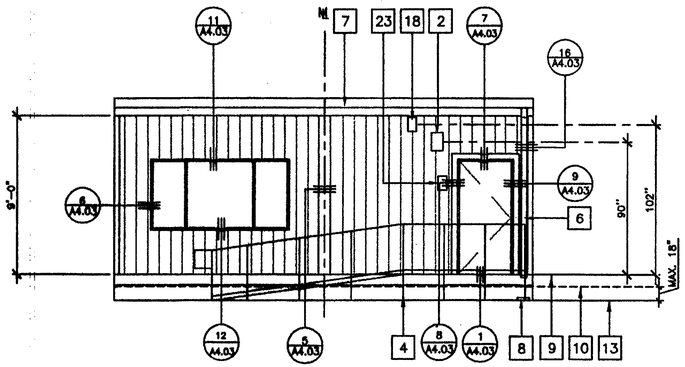
DATE:

ROOF DETAILS

MODTECH Index No.

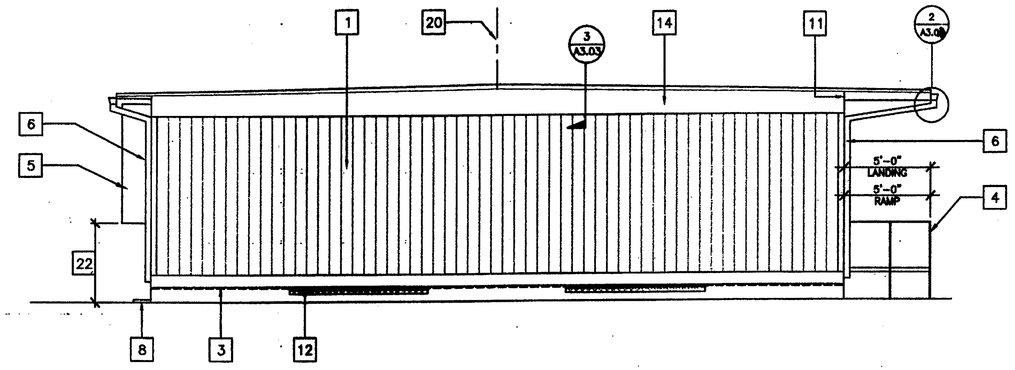
A3.03



1 FRONT ELEVATION

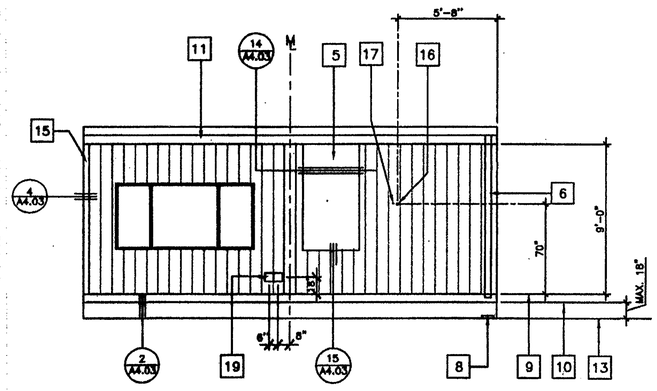
OPP-HAND

1/4" = 1'-0"



2 LEFT ELEVATION

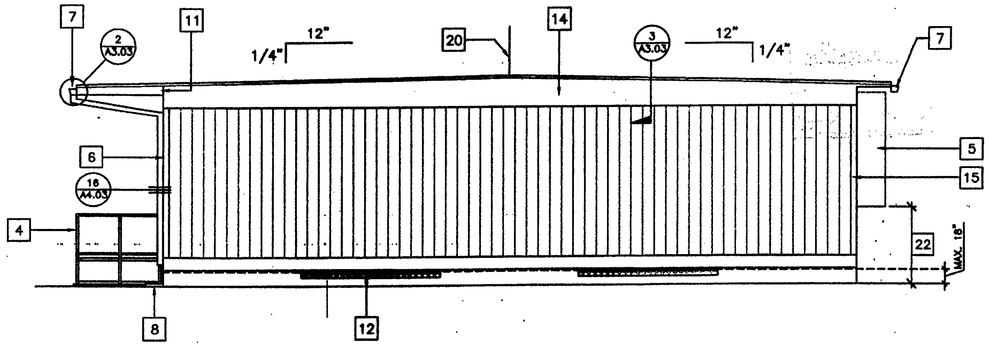
1/4" = 1'-0"



3 REAR ELEVATION

OPP-HAND

1/4" = 1'-0"



4 RIGHT ELEVATION

1/4" = 1'-0"

KEY NOTES

1. TYPICAL EXTERIOR SIDING (SEE A6.02)
2. EXTERIOR LIGHT FIXTURE (SEE SPEC'S)
3. TOP OF SKIRTING
4. RAMP AND LANDING (RAMP) SEE RAMP DRAWINGS
5. HVAC UNIT. SEE (HV)
6. DOWNSPOUT (TYP.) FOR (2). FASTEN TO BLD'G. TYP 3 PLACES (SEE 16/A4.03)
7. CONTINUOUS GUTTER WITH DOWNSPOUT (LOCATION OF DOWNSPOUT SHOWN ON ROOF PLAN) SEE A3.01
8. SPLASH BLOCK (BY OTHERS)
9. FINISH FLOOR LINE
10. BOTTOM FLANGE OF FLOOR BEAM
11. ROOF HEADER
12. VENT. SEE FOUNDATION PLAN
13. FINISH GRADE
14. ROOF BEAM SEE (STR)
15. COLUMN SEE (STR)
16. ELECTRICAL STUB-OUT SEE (EL)
17. GROUND STUB-OUT SEE (EL)
18. J BOX FOR EXT. FA HORN SEE (EL)
19. NEMA 6" X 6" GUTTER BOX SEE (EL)
20. RIDGE
21. NOT USED
22. IF HVAC UNIT IS LOCATED IN ANY PATH OF TRAVEL OR CIRCULATION AREA AND HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" THEN PROTECTION MUST BE PROVIDED BY DISTRICT PRIOR TO OCCUPANCY
23. SIGNAGE PROVIDED AND INSTALLED BY DISTRICT PRIOR TO OCCUPANCY. SEE SHEET A6.02

NOTES

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

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04 105455
AC FLS SS
DATE JUL 17 2003

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APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2003

FILE PATH:

PROJECT NO. 4736

PC-04-104796

REVISIONS	Electrical Engineer's Seal	Mechanical Engineer's Seal	PC Professional of Record Seal	Architects Seal
1			LICENSED ARCHITECT FREDERICK MANNICK No. C-34528 RENEWAL 12/31/05 STATE OF CALIFORNIA	
2				
3				
4				
5				

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CBC 2001
IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
PC-04 104796
AC FLS SS
DATE 5/5/03

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

PROJECT NUMBER: 4736
WILLIAM SCOTTSMAN

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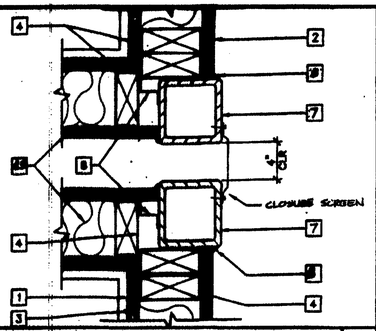
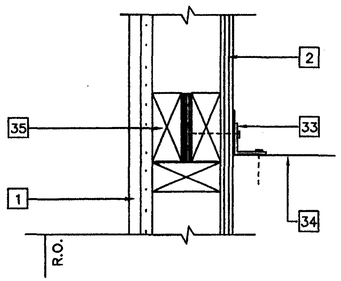
Modtech Index No.

EXTERIOR ELEVATIONS W/ FASCIA

A4.01

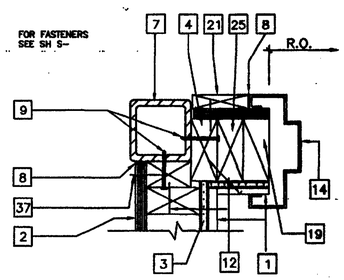


CLOSURE BETWEEN BLDG'S | 17



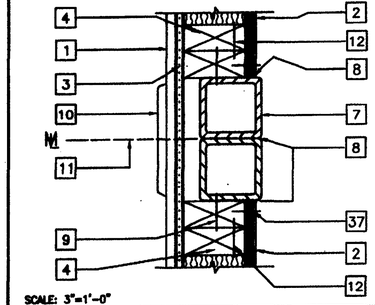
SCALE: NTS AC UNIT ATTACHMENT (SIDES)

UNIT ATTACHMENT | 13



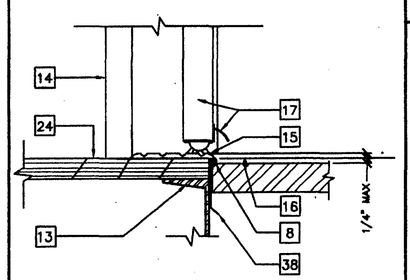
SCALE: 3"=1'-0"

DOOR JAMB | 9



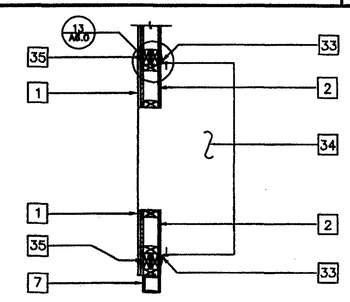
SCALE: 3"=1'-0"

COLUMN • MODLINE | 5



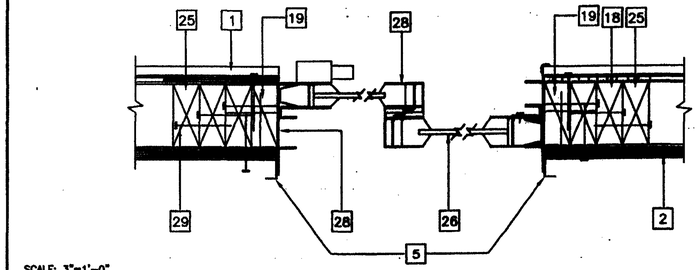
SCALE: 3"=1'-0"

THRESHOLD | 1



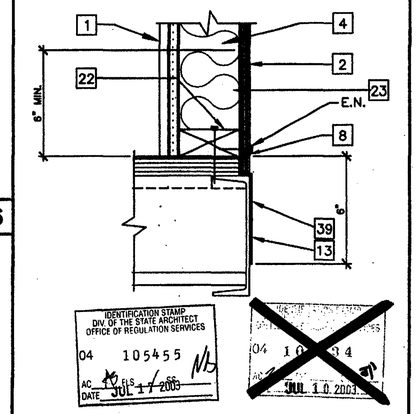
SCALE: NTS REF: SEE C/S5.0

18 | A.C. UNIT (PLAN)



SCALE: 3"=1'-0"

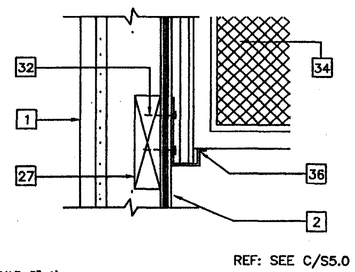
WINDOWS SECTION • JAMBS | 14 | 6



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 105455 AC 10 FLS 66 DATE JUL 17 2003

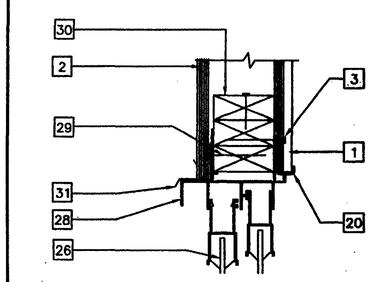
NOTE: FLASHING AS SHOWN SUPPLIED BY MODTECH. SEE NOTE #21 ANY OTHER FLASHING OR EXTENSION IS THE RESPONSIBILITY OF THE SITE CONTRACTOR OR SCHOOL DISTRICT

SCALE: 3"=1'



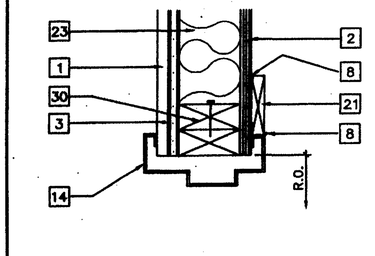
SCALE: 3"=1' REF: SEE C/S5.0

19 | A.C. UNIT (BOTTOM)



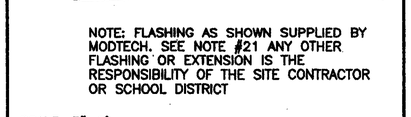
SCALE: 1 1/2"=1'-0"

WINDOW HEADER | 15 | 11



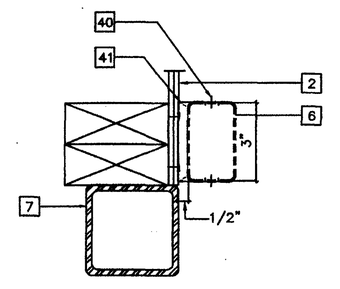
SCALE: 3"=1'-0"

DOOR HEADER | 7



SCALE: 3"=1'-0"

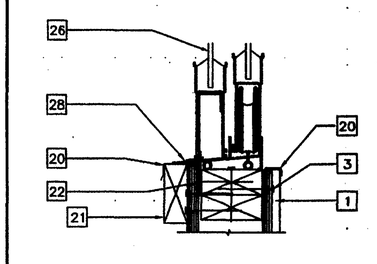
TYPICAL SILL • FLOOR | 2



NOTE: DOWN SPOUT ATTACHES TO COLUMN AT FRONT AND TO STUD AT REAR IN ORDER TO MISS RAMP RAILING AT FRONT

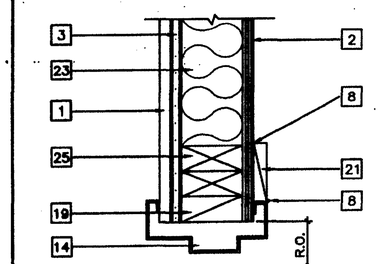
SCALE: 4"=1'

20 | DOWNSPOUT ATTACHMENT | 16



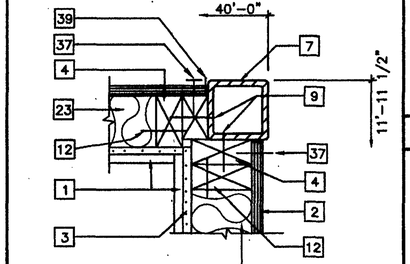
SCALE: 1 1/2"=1'-0"

SILL PLATE | 12



SCALE: 3"=1'-0"

DOOR JAMB | 8



SCALE: 3"=1'-0"

CORNER COLUMN | 4

KEY NOTES

1. TYP. INTERIOR FINISH (SEE FINISH SCHEDULE)
2. TYPICAL EXTERIOR FINISH
3. 1/2" GYPSUM BOARD BACKING W/ 7d COOLER NAILS AT MAX 7" O.C. TYP. AT EA. STUD
4. 2X4 STUD TYP. AT 16" O.C. MAX.
5. CORNER MOLD
6. DOWNSPOUT
7. TUBE STEEL COLUMN SEE STR
8. CAULKING
9. #10 S.T.S.M.S. AT MAX. 24" O.C. (ALT. HILTI 0.145 SHOT PIN) 2X FILLER TO COLUMN
10. VINYL CLOSURE
11. MODULE JOINT
12. 16d AT 24" O.C. FACE NAIL OR 16d AT 12" O.C. TOE NAIL (SEE SHEET S5.2)
13. FLOOR BEAM SEE STR
14. PRESSED STEEL FRAME (K.D. TYPE SEE A6.02)
15. ALUMINUM THRESHOLD (SEE HARDWARE SCHEDULE)
16. FINISH LANDING SEE FLOOR PLAN AND FOUNDATION FOR TYPE AND FINISH
17. DOOR AND DOOR BOTTOM (SEE HARDWARE SCHEDULE)
18. (2) 2X4 KING STUD (SEE SHEET S5.0)
19. 2X4 TRIMMER (SEE SHEET S5.0)
20. "Z" MOLD 26GA
21. 4" ABTCO TRIM
22. (2) 2X4 SILL PLATE W/ 16d AT 16" O.C.
23. INSULATION (SEE SPECS. FOR SIZE AND TYPE)
24. FINISH FLOORING (SEE FINISH SCHEDULE SHEET A6.02)
25. 2X4 JAMB STUDS (SEE SHEET S5.0) DETAILS FOR NUMBER OF STUDS REQUIRED AND NAILING SCHEDULE FOR NAILING
26. WINDOW GLAZING (SEE WINDOW SCHEDULE SHEET A6.02)
27. 2X6 LET IN (SEE WALL FRAMING SHEET C/S4.0)
28. ALUMINUM WINDOW FRAME WITH NAIL-ON FINISH. INSTALL W/ MIN. 3" BLDG. PAPER BETWEEN FINISH AND FRAMING. INSTALL WITH 8d AT MAX. 24" O.C.
29. 16d BOX STAGGERED AT MAX 24" O.C.
30. HEADER 12/S5.0
31. 26 GA DRIP FLASH
32. 6-3/8"ø X 2" GALVANIZED LAG SCREWS
33. L 1-1/2"x1-1/2"x1/8"x18" LONG (BY HVAC MFR.) ATTACHED TO A/C W/ 4-#10 SELF TAPPING SHEET METAL SCREWS AND ATTACH TO WALL W/ 3"ø X 2" GALVANIZED LAG SCREWS
34. SIDE OF HVAC UNIT SEE HV
35. (3) 2X4 W/ PLYWOOD SPACER- BUILT- UP POST. 8d AT O.C. STAGGERED SPACER TO FIRST 2X4 16d AT 12" O.C. SECOND 2X4 12d AT 12" O.C. STAGGERED THIRD 2X4 ALTERNATE USE 4X4 POST
36. 11GA. X24" STEEL SUPPORT BRACKET
37. EN - 8d BOX ELECTRO GALV. AT 6" O.C. FN - 8d BOX ELECTRO GALV. AT 12" O.C.
38. 26 GA GALVANIZED FLASH AT DOOR SILL
39. 22 GA. GALV. FLASHING (AT BELOW GRADE CONC. FOUNDATION ONLY)
40. #8 STSMS - 1 AT EA SIDE OF DOWNSPOUT TO BRACKET
41. ATTACHMENT BRACKET (TYP 3 PLACES: TOP, BOTTOM & MIDSPAN W/ 2-#10 STSMS, BRACKET TO STUD) SEE NOTE AT DETAIL 8

NOTES

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

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

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

FILE PATH:

PROJECT NO. 4736

PC-04-104796

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal — LICENSED ARCHITECT FRED VINCENT HAMILTON No. C-04629 RENEWAL 12/31/05 STATE OF CALIFORNIA

Architects Seal

PC CBC 2001 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 104796 AC FLS SS DATE 5/9/03

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

PROJECT NUMBER: 4736
WILLIAM SCOTTSMAN

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 1 1 2 3 1 7 AC 10 FLS SS DATE MAR 05 2009

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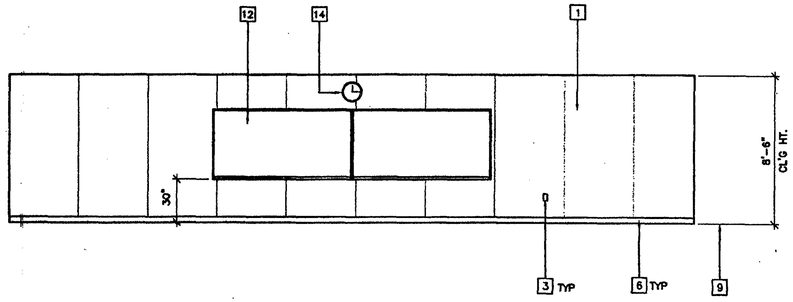
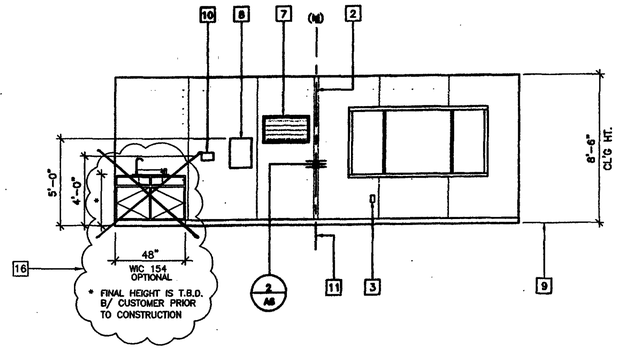
ARCHITECTURAL DETAILS

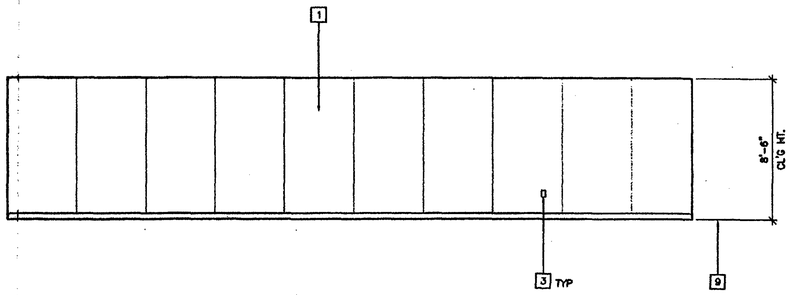
A4.03



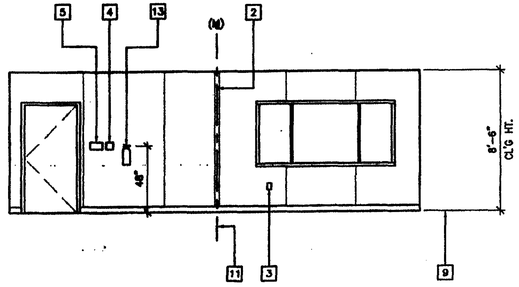
1 LEFT ELEVATION



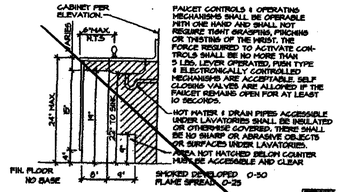
2 REAR ELEVATION OPP-HAND



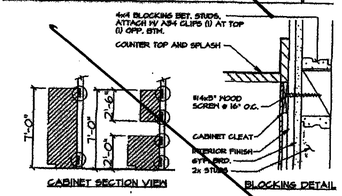
3 RIGHT SIDE ELEVATION



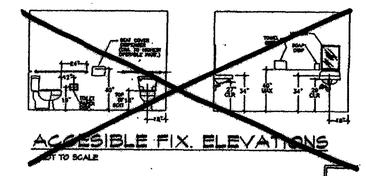
4 FRONT ELEVATION OPP-HAND



H.C. SINK CAB. SEC.



CABINET ATTACHMENT



ACCESIBLE FIX. ELEVATIONS

NOT TO SCALE

DIMENSION	ADULT A	ADULT E	ADULT K
TOILET CENTERLINE FROM WALL	18"	15"**	13"**
TOILET SEAT HEIGHT	17"-19"	15"	10"-12"
GRAB BAR HEIGHT (SIDE)	33"	27"**	20"-22"
		DIM TO TOP OF SEAT	
TOILET PAPER IN FRONT OF TOILET	12" MAX.	6"MAX**	6"MAX**
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX	12"MAX.	N/A
DISPENSER OR MIRROR HEIGHT	40" MAX.	36" MAX.	32" MAX.
LAVATORY/SINK TOP HEIGHT	34" MAX.	29" MAX.	24" MAX.
LAVATORY/SINK KNEE CLEARANCE	29" MIN.	29" MIN.	19" MIN.
URINAL LIP HEIGHT	17" MAX.	13" MIN.	13" MIN.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	31" MAX	32" MAX
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.	32" MAX	30" MAX
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.
RAMP/STAIR HANDRAIL HEIGHT	34"-38"	27"	23"

** DEVIATES FROM CODE REQUIREMENTS AND REQUIRES A WRITTEN FINDING OF UNREASONABLE HARDSHIP

Dec-14-00 09:39A

RECOMMENDED ACCESSIBILITY DIMENSIONS

KEY NOTES

1	TYPICAL INTERIOR FINISH (FIN)
2	CLOSURE AT MODULAR JOINT
3	DUPLEX WALL RECEPTACLE (EL)
4	J-BOX FOR FIRE ALARM PULL STATION (EL)
5	LIGHT SWITCH (EL)
6	BASE
7	RETURN AIR GRILL
8	ELECTRICAL PANEL (EL)
9	FINISH FLOOR LINE (FIN)
10	THERMOSTAT (HV) SEE MECHANICAL PLANS
11	MODULAR JOINT
12	8040 PORCELAIN STEEL MARKER BOARD, TYPICAL FOR (2)
13	FIRE EXTINGUISHER: 5 LBS DRY CHEMICAL WITH 2A-10BC UL RATING ON WALL MOUNTED BRACKET, HANDLE AT 48" AFF
14	ELECTRIC CLOCK (EL)
~~15~~	~~SINK/CABINET (OPTIONAL)~~

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 105455
AC FLS SS
DATE JUL 17 2003

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2004

INTERIOR ELEVATIONS (24'x40')

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

REVISIONS					
1					
2					
3					
4					
5					

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
LICENSED ARCHITECT
FRED VIRGIL HALLOCK
No. C-24628
12/31/03
RENEWAL DATE
STATE OF CALIFORNIA

Architects Seal

PC
CBC 2001
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104796
AC FLS SS
DATE 5/1/03

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

PROJECT NUMBER: 4736
WILLIAM SCOTTSMAN

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DRAWN BY: GL
DATE: 07/07/03
CHECKED BY:
DATE:

INTERIOR ELEVATIONS 24'x40'

MODTECH Index No.
A5.02

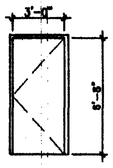
PROJECT NO.4736
PC-04-104796
FILE PATH:

DOOR SCHEDULE

DOORS							FRAMES					
DOOR NUMBER	FRAME OPENING SIZE	MATERIAL	TYPE	FIRE RATING	HARDWARE SET NO.	QUANTITY	MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	JAMB THROAT	NOTE NO.
1	3'-0" X 6'-8"	HM	A	NA	1	1	HM	7/A4.03	8/A4.03	1/A4.03	5-1/8"	

HM – HOLLOW METAL
AL – ALUMINUM
SST – STAINLESS STEEL
STL – STEEL
WWF – WINDOW WALL FRAME
SC – SOLID CORE WOOD
HC – HOLLOW CORE WOOD
SCL – SOLID CORE WOOD LEGACY

DOOR ELEVATIONS



TYPE A

DOOR NOTES

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

HARDWARE SCHEDULE

HARDWARE SET #1

LOCKSET	– SCHLAGE D70PD, WITH RHODES LEVER, OR EQUAL
BUTTS	– 1-1/2 PAIR HAGER 1191 BB 4-1/2 x 4-1/2 NRP 26D OR EQUAL.
CLOSER	– NORTON 8500 DA / LCN 460 OR EQUAL
THRESHOLD	– PEMCO 271A OR EQUAL
DOOR BOTTOM	– PEMCO 216AV OR EQUAL
WEATHERSTRIP	– PEMCO 299AV OR EQUAL
DOOR STOP	– QUALITY #44 OR EQUAL

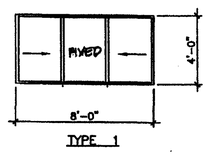
HARDWARE SET #2

LOCKSET	– SCHLAGE D53PD, WITH RHODES LEVER, OR EQUAL
BUTTS	– 1-1/2 PAIR HAGER BB1279 4-1/2 x 4-1/2 26D OR EQUAL.

WINDOW SCHEDULE

AMT.	TYPE	WIDTH	HEIGHT	FINISH	WIN. NO.	GLASS TYPE
2	1	8'-0"	4'-0"	ANODIZED	A	7/32" MIN, SOLAR GRAY 46%, DUAL GLAZE

WINDOW ELEVATIONS

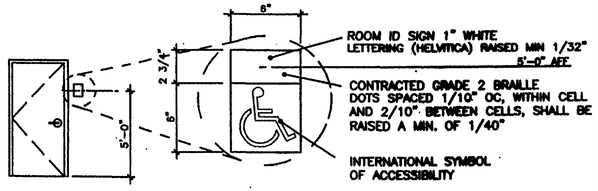


TYPE 1

WINDOW NOTES

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

ACCESSIBILITY SIGNAGE (BY DISTRICT)



ENTRY DOOR FROM EXTERIOR VIEW

ROOM FINISH SCHEDULE

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

A – CARPET PER STATE OF CALIF SPEC 7220-51E-04 COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600, DIRECT GLUE DOWN WITH 4" TOPSET BASE.
B – VINYL SHEET FLOORING
C – SELF COVE BASE – 6"
D – 4" BURKE
E – 6" BRIGANTINE OR SANDOVAL
F – 1/2" VINYL TACKBOARD CLASS-1 OVER 1/2" GYP. BOARD BACKING
G – 1/2" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH
H – 3/8" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH
I – 1/2" GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH
J – 3/8" GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH
K – 1/8" MARLITE OVER 1/2" W.R. GYP. BOARD
L – ACCOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATIONS)
M – 3/32" FRP OVER 1/2" WR GYP. BOARD

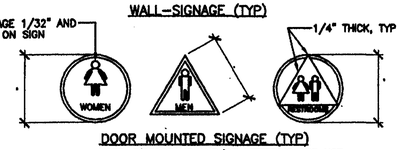
FINISH NOTES

1. SUB-FLOOR PREP:

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

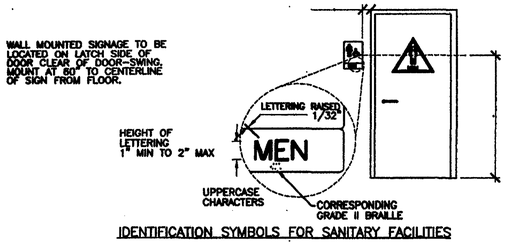
TOILET ROOM SIGNAGE (BY DISTRICT)

WALL-SIGNAGE (TYP)



DOOR MOUNTED SIGNAGE (TYP)

NOTE: PICTOGRAMS AND/OR LETTERING ARE NOT REQUIRED ON DOOR-MOUNTED SIGNAGE. ALL CIRCLES AND TRIANGLES ARE 1/4" THICK.



IDENTIFICATION SYMBOLS FOR SANITARY FACILITIES

INTERNATIONAL SYMBOL OF ACCESS (WHEEL CHAIR SYMBOL) REQUIRED DOOR OR AT STRIKE SIDE ROOM IDENTIFICATION

NOTES

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

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PROJECT NUMBER: 4736

WILLIAM SCOTTSMAN

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SCHEDULE SHEET

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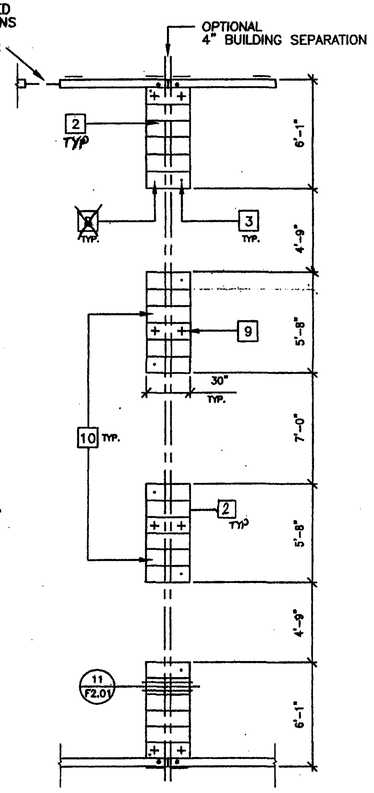
A6.02

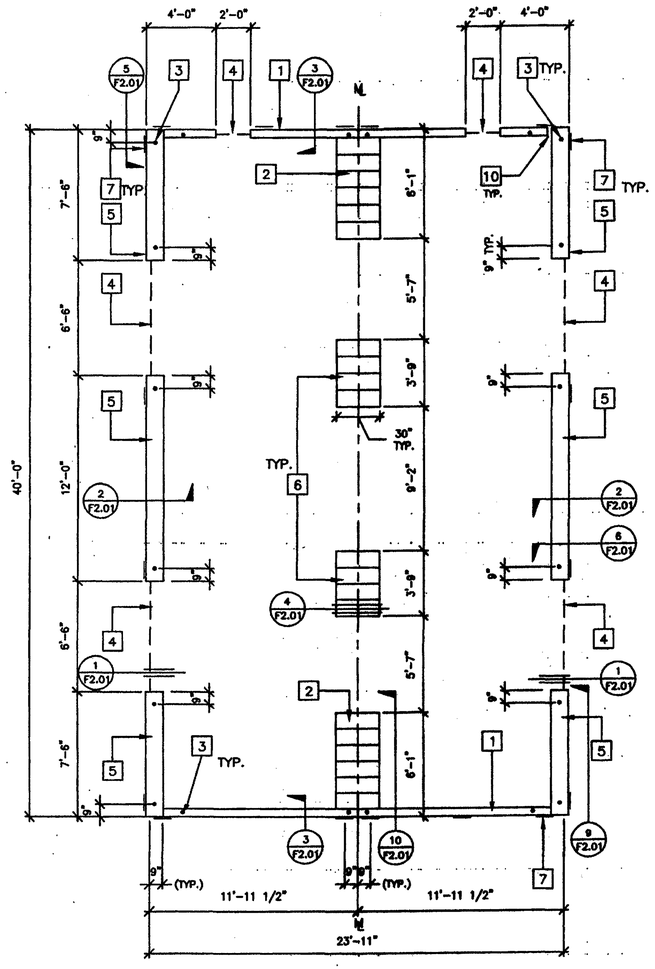
PROJECT NO. 4736
PC-04-104796

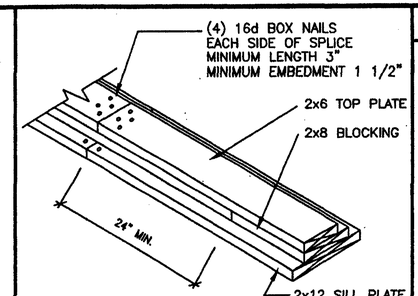
3"x24" ENDWALL VENTS AS REQUIRED
FOR ADJACENT BUILDING APPLICATIONS
MIN. 18" FROM BUILDING CORNERS
MIN. 12" BLOCKING BETWEEN VENTS



FOOTINGS AT ADJACENT BUILDING
(OPTIONAL 4" SEPARATION)

BUILDING CLOSURE AT 4" SEPARATION NOTES:
- FOR ROOF DETAIL AT ADJACENT BLDG SEE F/S2.0
- FOR WALL DETAIL AT ADJACENT BLDG SEE 17/S4.03 OR S4.03M





IF ADDITIONAL PLATES ARE REQUIRED,
ABOVE THE 2x6 TOP PLATES SHOWN,
TOP PLATE SHOWN, USE 2x4 PLATES

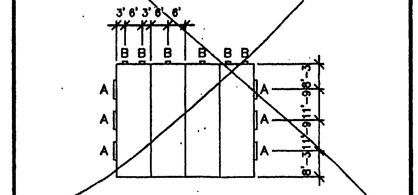
FOUNDATION SPLICE DETAIL | 1

VENT CALCS.

BLD'G SIZE 24' X 40'= 960
VENTILATION REQ'D 960 ÷ 150= 6.4SF
3"X6'-6" VENT=1.625SF X 4 = 6.5SF
3"X2'-0" = 0.5 SF X 2 = 1.0 SF
TOTAL VENTING PROVIDED = 7.5 SF

24'x40' VENT CALCS | 2

BLD'G SIZE 48' X 40'= 1920
VENTILATION REQ'D 1920 ÷150= 12.8SF
VENT A: 3"x6'-6" = 1.625SF x 6 = 9.725SF
VENT B: 3"x2'-0" = 0.5 SF x 6 = 3.0 SF
TOTAL VENTING PROVIDED = 12.72 SF OK



48'x40' VENT CALCS/KEY PLAN 3

KEY NOTES

1. 2"X6" SILL PLATE (END WALL)
2. 6- 2X12X30" LONG SILL PADS
3. PIPE TO GRADE (TYP.)
4. 3" HIGH BY 6'-6" LONG VENT AT SIDEWALLS
   3" HIGH BY 2'-0" LONG VENT AT ENDWALLS
5. 2X12 SILL PLATE (SIDE WALL)
6. 4-2X12X30" LONG SILL PADS
7. 6"X12"X10 GA. PLATES
   5 AT ENDWALL, 4 AT SIDEWALL
8. ~~TIE PLATE - S.S/F2.0~~
   ~~AT 70 MPH WIND DESIGN LOAD:~~
   ~~MIN (4) AT EACH ENDWALL~~
   ~~(3) AT EACH SIDEWALL~~
   ~~AT 80 MPH WIND DESIGN LOAD:~~
   ~~MIN (5) AT EACH ENDWALL~~
   ~~(4) AT EACH SIDEWALL~~
9. 5/8" DIA x 4" LAGS
10. 2" CUTOUT OF SILL PLATE FOR DRAINAGE, FIELD TO LOCATE AT LOWEST CORNER OF FOUNDATION

NOTES

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

   THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.
8. FOR FOUNDATIONS USING (4) PLATES, USE SHEET F2.01 FOR DETAILS IN LIEU OF SHEET F2.0

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FOUNDATION - WOOD SILL

24' X 40' 50 PSF LL
SCALE 1/4" = 1'

PC
CBC 2001

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FOUNDATION PLAN

F1.01

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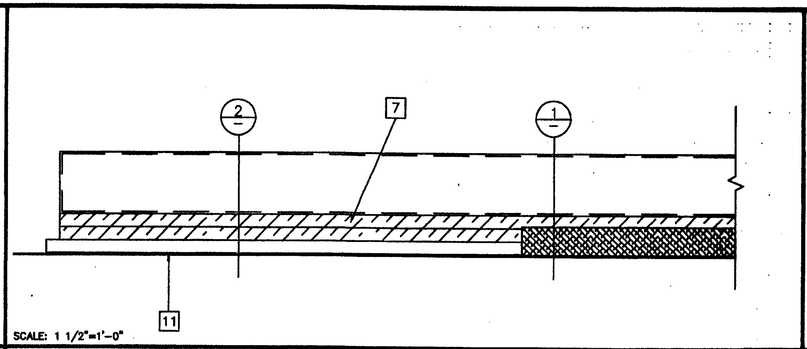
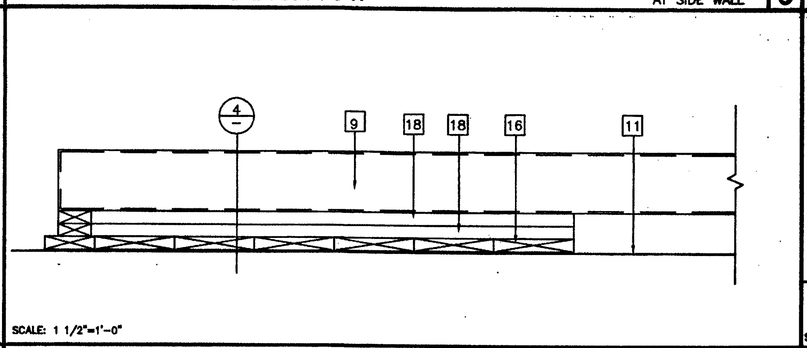


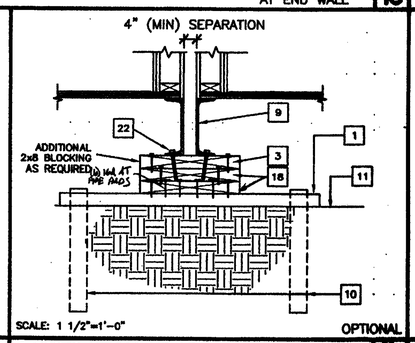
SCALE: 1 1/2"=1'-0"

FOUNDATION ELEVATION AT SIDE WALL 9



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

MODLINE PAD ELEVATION AT END WALL 10

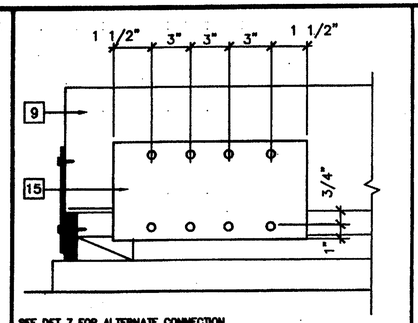


SCALE: 1 1/2"=1'-0" OPTIONAL

FOUNDATION AT ADJACENT BUILDING 11

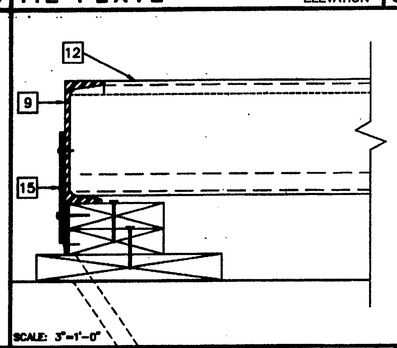
PC

CBC 2001



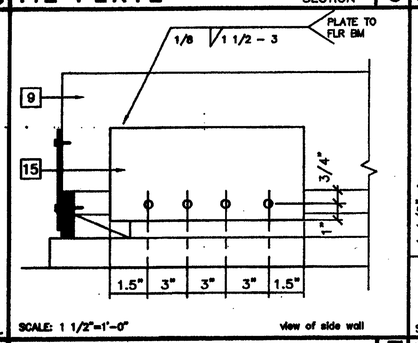
SEE DET 7 FOR ALTERNATE CONNECTION
SCALE: 3" = 1'-0" view of side wall

TIE PLATE ELEVATION 5



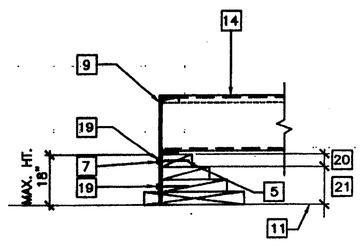
SCALE: 3"=1'-0"

TIE PLATE SECTION 6



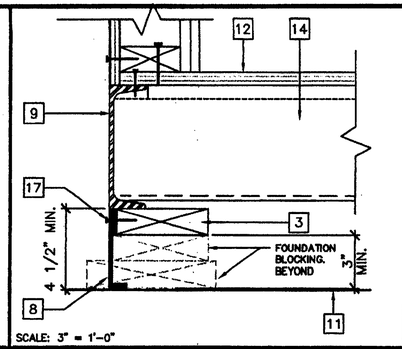
SCALE: 1 1/2"=1'-0" view of side wall

TIE PLATE WELD ALTERNATE 7



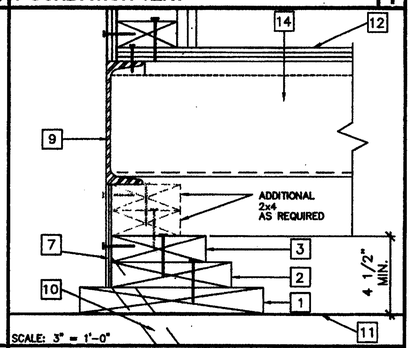
SCALE: 1 1/2"=1'-0"

ADD BLK'S/SHIMS TO LEVEL FOUN. 8



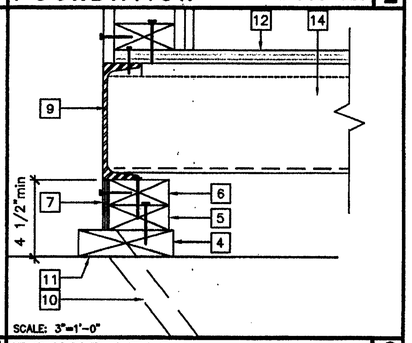
SCALE: 3" = 1'-0"

FOUNDATION VENT 1



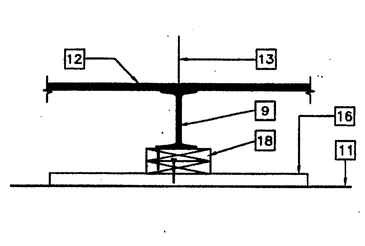
SCALE: 3" = 1'-0"

FOUNDATION AT SIDE WALL 2



SCALE: 3"=1'-0"

FOUNDATION AT END WALL 3



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

FOUNDATION PAD AT MODLINE 4

KEY NOTES

1. 2x12 PT CONTINUOUS SILL PLATE – SEE FOUNDATION SCHEDULE
2. 2x8 BLOCKING. FACE OR TOE NAIL 16d GALV. BOX NAILS AT 5" O.C. TO SILL PLATE (H.D.G.)
3. 2x6 CONT. TOP PLATE. FACE OR TOE NAIL 16d GALV. BOX NAILS AT 12" OC TO BLOCKING. OMIT NAILS AT VENT OPENING (H.D.G.)
4. 2x6 PT SILL PLATE
5. 2x4 BLOCKING. FACE OR TOE NAIL 16d GALV BOX NAILS TO BLOCKING AT 12" OC (H.D.G.)
6. 2x4 CONT. TOP PLATE. FACE OR TOE NAIL 16d GALV. BOX NAILS AT 12" OC TO BLOCKING (H.D.G.)
7. MINIMUM 5/8" PLYWOOD SKIRTING W/10d GALV BOX NAILS AT 4" O.C. END WALL EN AND 6" OC SIDE WALL EN AND TYPICAL 12" OC FN. (H.D.G.)
8. VENT:24x40= 960 SF / A50 = 6.4 SF REQD. 3'x 6'-6" = 1.3x4 = 6.5 SF > 6.4 SF OK
9. PERIMETER FLOOR BEAM/ HEADER STR
10. SILL RESTRAINT. SEE NOTE 1 / F1.01
11. FINISH GRADE
12. PLYWOOD SUB FLOOR
13. MODLINE
14. FLOOR JOIST STR
15. 6x12 x10 GA PLATE W/4– 1/4" DIA. SMS TO BEAM AND 4–1/4" DIA LAG SCREWS TO TOP PLATE. FOR ALTERNATE WELD ~~SEE 9/F2.0 — PAINTED~~
16. 2x12 x 2'–6" SILL PADS. SEE FOUNDTION PLAN FOR QUANTITY
17. 10d GALV BOX NAILS AT 4" OC OVER VENTS (H.D.G.)
18. 2x8 CONT TOP PLATE/ BLOCKING W/ 16d GALV BOX NAILS AT 12" OC (H.D.G.)
19. EN SEE NOTE #7
20. ADD BLOCKING OR SHIMS AS REQ. TO MAX. HT. SEE DETAIL #2 & #8
21. MIN. FOUNDATION HEIGHT. SEE DETAIL #2
22. 5/8" DIA x 4" LAGS (FOR LOCATION SEE PLAN)

H.D.G. = HOT DIP GALVANIZED

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WILLIAM SCOTTSMAN

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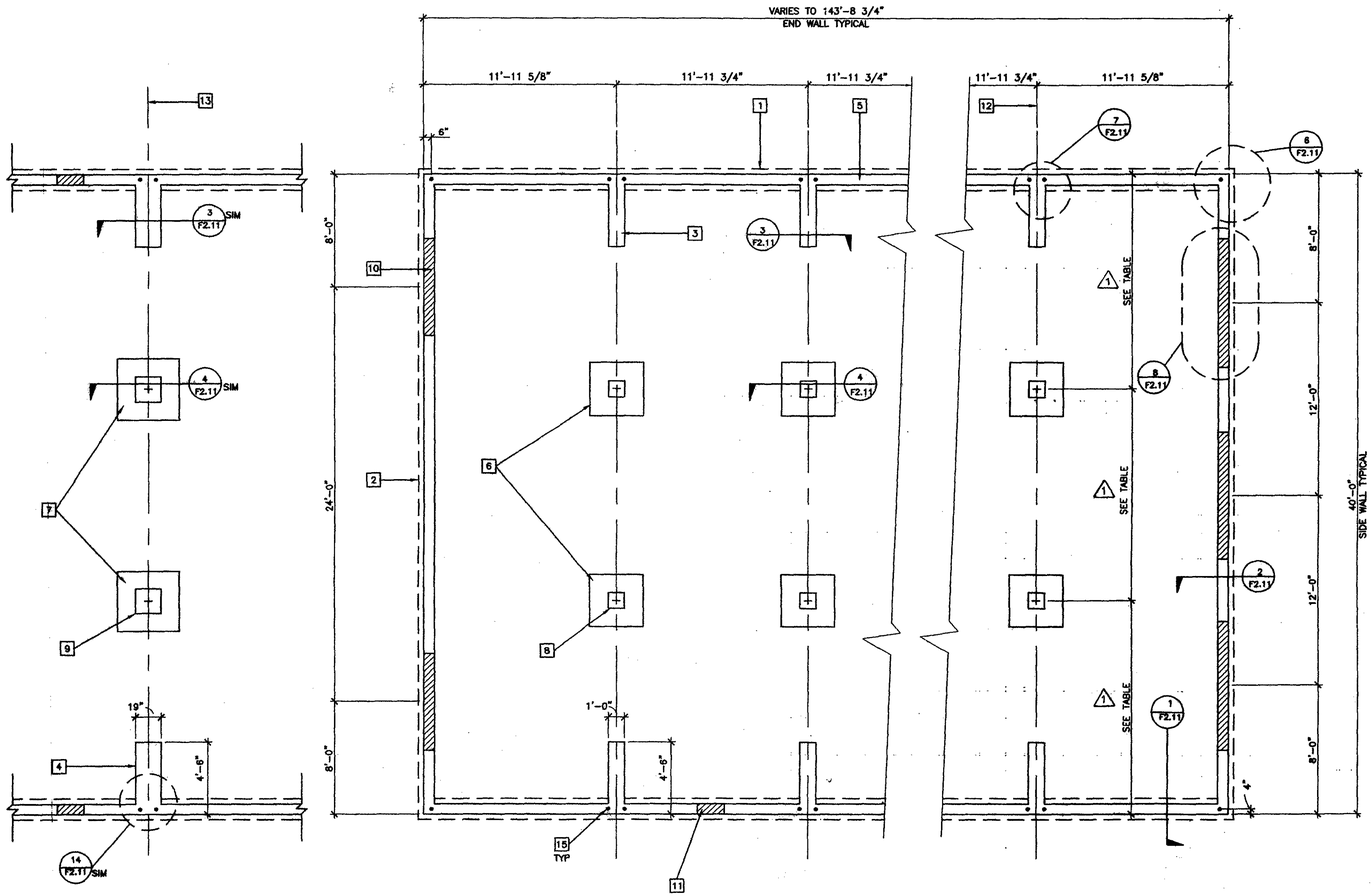
FOUNDATION PLAN w/ 3 PLATES

F2.01



FOOTINGS AT ADJACENT BUILDING
(OPTIONAL 4" SEPARATION)

FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	50 PSF WOOD FLR	50 PSF CONC FLR	50+20 PSF WOOD FLR	50+20 PSF CONC FLR	100 PSF	125 PSF
SIDEWALL	12"	12"	12"	12"	SEE SHEET F3.02	SEE SHEET F3.02
ENDWALL	17"	17"	19"	19"		
PAD	3'-4" 3-#5 EW	3'-4" 3-#5 EW	4'-0" 3-#5 EW	3'-10" 2-#5 EW		
PAD AT 4" SEPARATION	3'-9" 3-#5 EW	3'-8" 2-#5 EW	4'-3" 3-#5 EW	4'-1" 2-#5 EW		
NO. OF PADS AND SPACING	2 13'-4"	3 10'-0"	2 13'-4"	3 10'-0"		

VENTING SCHEDULE (WOOD FLOORS ONLY)

BUILDING	(SF) AREA	(SF) VENTING REQUIRED	SIDE WALL VENTING	SIDE WALL VENT AREA	END WALL VENTING	END WALL VENT AREA	TOTAL VENT SUPPLIED
24'x40'	960	6.4	(5) A	7.8	–	–	7.8
36'x40'	1440	9.6	(4) B	9.6	–	–	9.6
48'x40'	1920	12.8	(6) B	14.4	–	–	14.4
60'x40'	2400	16	(4) C (2) B	12.92 4.8	–	–	17.7
72'x40'	2880	19.2	(6) C	19.38	–	–	19.4
84'x40'	3360	22.4	(6) C	19.38	(2) A (1) D	3.65	23.03
96'x40'	3840	25.6	(6) C	19.38	(4) A (1) D	6.6	25.9
108'x40'	4320	28.8	(6) C	19.38	(6) A (1) D	9.5	28.9
120'x40'	4800	32	(6) C	19.38	(9) A	31.1	32.52
132'x40'	5280	35.2	(6) C	19.38	(11) A	16.1	35.5
144'x40'	5760	38.4	(6) C	19.38	(13) A (1) D	24.49	39.09

LEGEND	VENT	SIZE	AREA (SF)	GRATE SIZE
	A	3'-9"x5"	1.56	4'x8"
	B	5'-9"x5"	2.40	6'x8"
	C	7'-9"x5"	3.23	8'x8"
	D	1'-9"x5"	0.73	2'x8"
ACCESS (OPTIONAL)	E	2'-9"x18"	4.13	3'x2'

NOTE: DELETE ALL UNDER FLOOR VENTS FOR CONCRETE FLOOR OPTION.

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KEY NOTES

1. END WALL FOOTING – SEE FOOTING SCHEDULE
2. SIDE WALL FOOTING – SEE FOOTING SCHEDULE
3. INTERIOR RETURN FOOTING – SEE FOOTING SCHEDULE
4. MODLINE RETURN AT 4" SEPARATION – OPTIONAL
5. STEM WALL – 8" TYPICAL UON
6. MODLINE PAD
7. MODLINE PAD AT 4" SEPARATION – OPTIONAL
8. 12" DIA OR SQUARE PEDESTAL (TYPICAL AT MODLINE)
9. 19" DIA OR SQUARE PEDESTAL (TYPICAL AT MODLINE)
10. TYPICAL VENT
11. ADDITIONAL END WALL VENTS AS REQUIRED (48" MAXIMUM LENGTH) OR INCREASE VENT HEIGHT AS REQUIRED AT SIDEWALLS
12. MODLINE
13. 4" BUILDING SEPARATION AT ADJACENT BUILDINGS – OPTIONAL
14. NOT USED
15. ANCHOR BOLT LOCATION – (1) AT EACH CORNER OF BUILDING AND (2) AT EACH MODLINE LOCATION

NOTES

1. SOIL TYPE AND FOUNDATION
   A. BEARING : SOIL BEARING VALUE OF 1000 PSF USED FOR DESIGN.
   B. FOOTINGS: ALL FOOTINGS SHALL EXTEND 12 INCHES MINIMUM INTO NATIVE SOIL OR APPROVED ENGINEERED FILL.
2. CONCRETE
   ALL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM STRENGTH AT 28 DAYS: FOOTINGS: fc' = 3000 PSI (DESIGN BASED ON f'c = 2000 PSI).
   CONCRETE SHALL CONFORM TO TITLE 24, SECTION 1905A.2.3 METHOD A OR B. ALL CEMENT SHALL BE TYPE 1 OR TYPE 11 PER ASTM C-150.
   METHOD "A" NON-DESIGNED MIX PER TABLE 19A-A-8.
   MINIMUM 7.1 SACKS PER YARD. WATER CONTENT SHALL NOT EXCEED 6 GALLONS PER SACK. AGGREGATE SHALL BE 3/4" TO 1" MAXIMUM SIZE BUT NOT MORE THAN 3/4" OF MINIMUM CLEAR BAR SPACING.
   METHOD "B" PER SECTION 1905A.3.1,
   CONCRETE SUPPLIER SHALL PROVIDE CONCRETE MIX DESIGN AND A BREAK HISTORY OF 30 CONSECUTIVE BREAKS IDENTIFIED TO THAT MIX DESIGN. ALTERNATE – PROVIDE 15 CONSECUTIVE BREAKS IDENTIFIED TO THAT MIX DESIGN WITH A STANDARD DEVIATION CALCULATIONS.
   ANCHOR BOLTS, DOWELS, REINFORCING STEEL AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
3. REINFORCING STEEL GRADE 40.
   ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706, AND WELDED PER AWS D1.4-98
4. FOR FOOTINGS USING TRENCH FOR FORMING WIDTH SHALL BE INCREASED 2" EA. SIDE
5. THE ABOVE FOUNDATION PLAN HAS 1/4" ADDED AT EACH MOD LINE AND 1/8" AT EACH SIDE WALL AND DOES NOT MATCH THE FLOOR PLAN. THIS IS REQUIRED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
6. MAX VENT LENGTH AT SIDE WALLS IS 8'-0"
   MAX VENT LENGTH AT END WALLS IS 4'-0"
   MIN DISTANCE FROM VENT TO EDGE OF MODULE IS 2'-0"
   MIN DISTANCE BETWEEN VENTS IS 2'-0"
7. DELETE ALL UNDER FLOOR VENTS WHEN SINGLE STORY BUILDING OR BOTTOM FLOOR OF TWO STORY BUILDING UTILIZES THE CONCRETE FLOOR OPTION.
8. FOR WELDED ANCHORAGE DELETE CANNOUTS. PROVIDE 1-ANCHOR PLATE AT EACH CORNER OF BUILDING AND 2-ANCHOR PLATES AT EACH MODLINE.

24X40 = 8	72X40 = 24
36X40 = 12	84X40 = 28
48X40 = 16	94X40 = 32
60X40 = 20	108X40 = 36

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FOUNDATION PLAN

ABOVE GRADE CONCRETE
SCALE: 1/4" = 1'-0"

FILE PATH: 2440-F2.01.DWG

REVISIONS

1	MCA	ADDED PAD SPACING TABLE	11/06/03
2			
3			
4			
5			

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REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON C-SMM 36027 STRUCTURAL STATE OF CALIFORNIA
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FOUNDATION PLAN AGC – 50, 50+20 PSF

F2.01a

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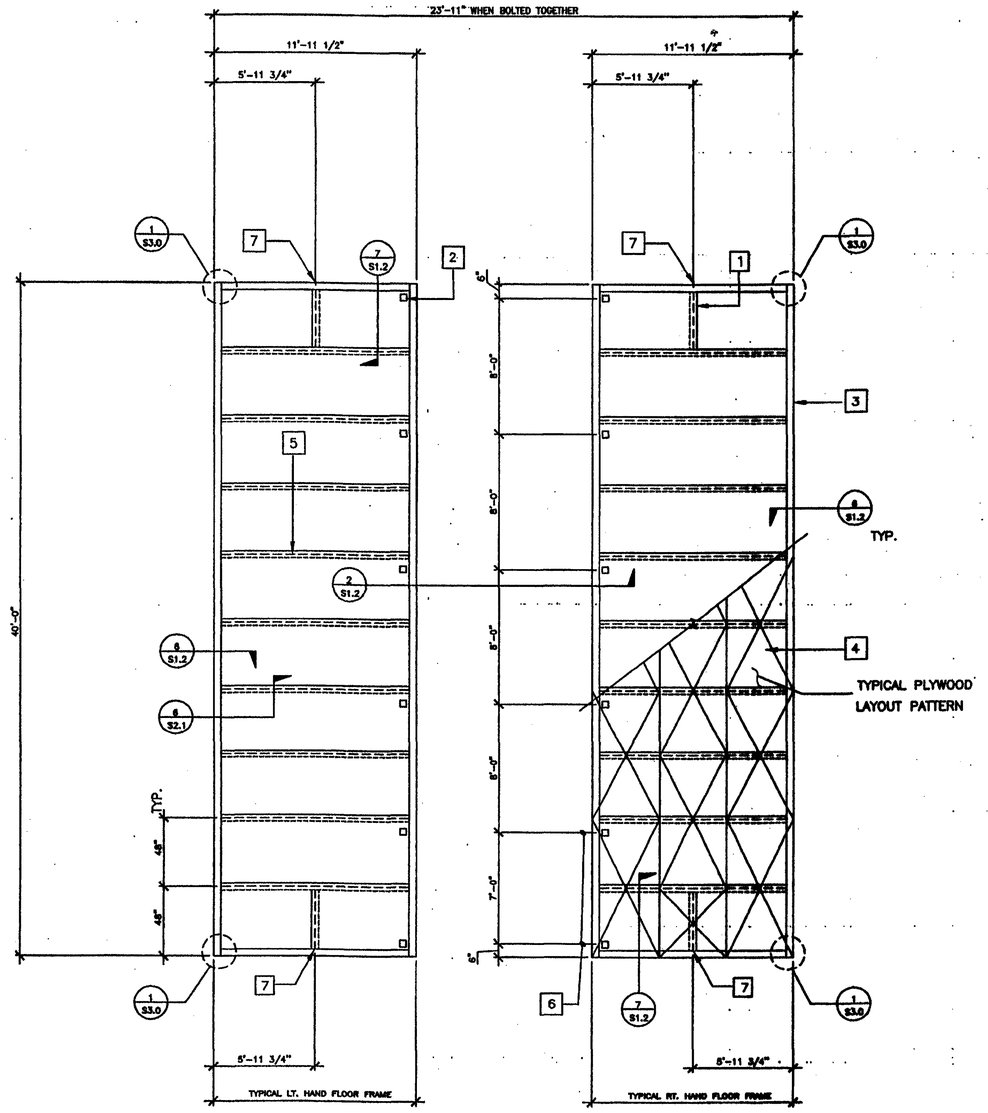

FLOOR FRAMING PLAN

SCALE 1/4"=1'-0"

FLOOR LIVE LOAD - 50 PSF

KEY NOTES

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

NOTES

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

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FLOOR JOIST TABLE

LIVE LOAD PSF	JOIST SPACING STANDARD	OPTIONAL UP GRADE TO STIFFEN FLOOR		
		32"	24"	16"
50	48"			

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2					
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2830 BARRETT AVENUE FAX (909) 943-4014
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FLOOR FRAMING PLAN

S1.0

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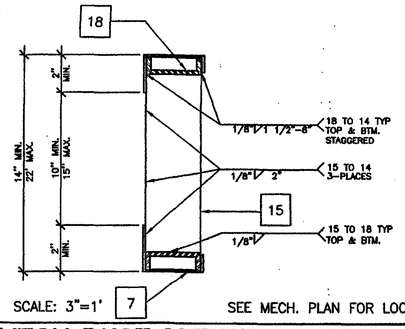
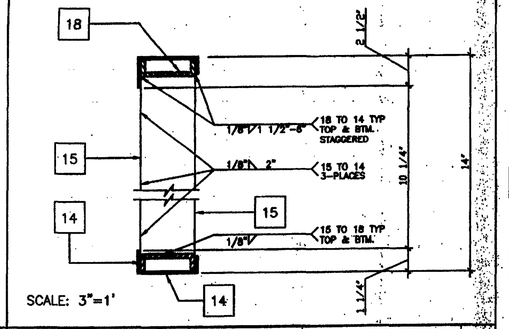


SCALE: 3"=1'

SEE MECH. PLAN FOR LOCATION

MECH. DUCT OPENING IN ROOF BM. 8



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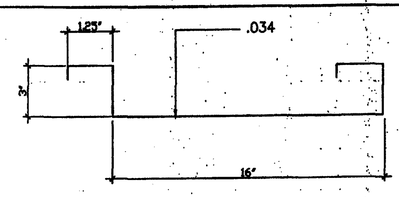
MECH. DUCT OPENING IN HEADER 4

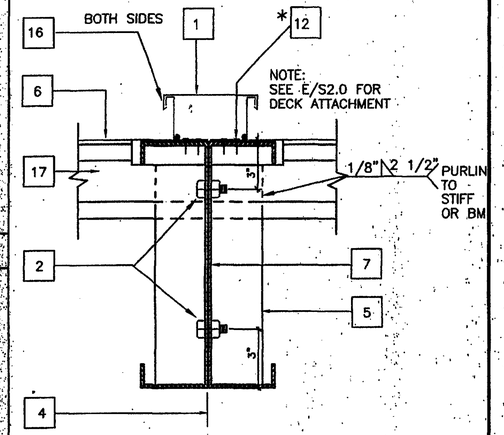


Sx(MIN) = 0.296 IN3
Ix(MIN) = 0.446 IN4

Sx(MAX) = 0.33 IN3
Ix(MAX) = 0.603 IN4

SCALE: NTS

ROOF PAN (22GA.) 5

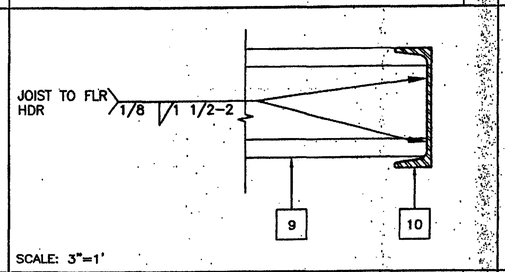


SEE 9/S2.2 FOR TYP. WELD STIFFENER TO BEAM

* DO NOT PENETRATE METAL ROOF DECK

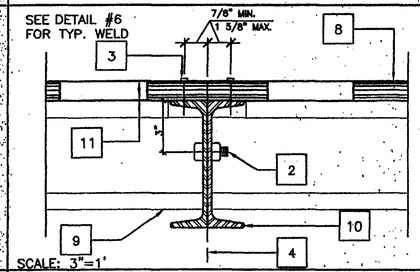
SCALE: 3"=1'

ROOFING • MODLINE 1



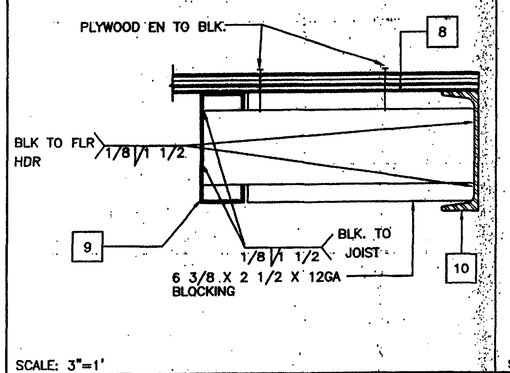
SCALE: 3"=1'

FLOOR FRAME/JOIST TO BEAM 6



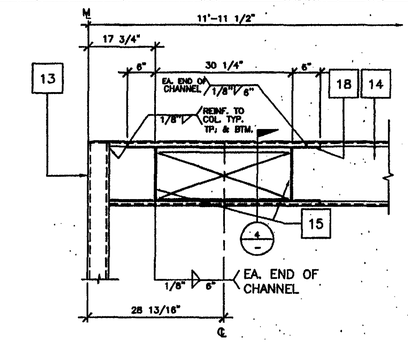
SCALE: 3"=1'

MODULE JOINT AT FLR. 12'-0" 2



SCALE: 3"=1'

BLOCK AT MIDSPAN 10



SCALE: 1"=1'

ELEVATION-OPENING 7

KEY NOTES

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

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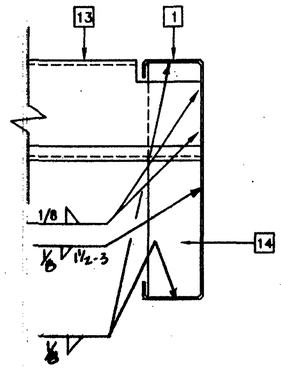
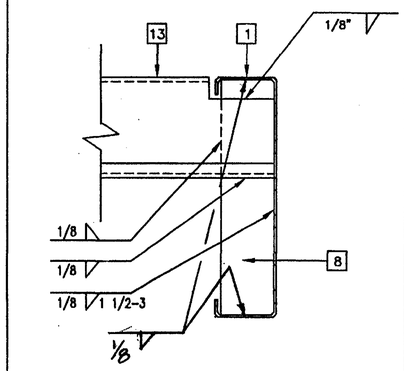
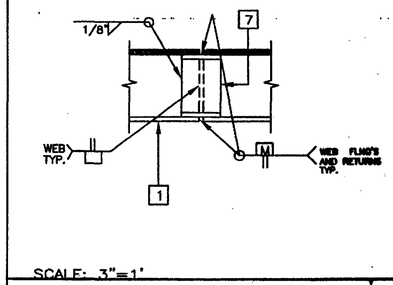


PURLIN AT INT. SIDE WALLS | 13

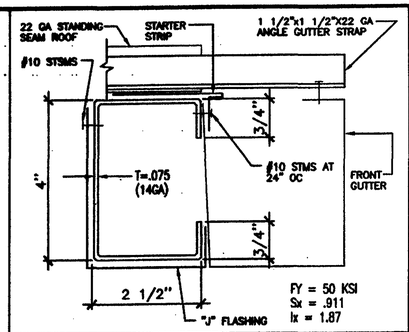


PURLIN AT EXT. SIDE WALLS | 11

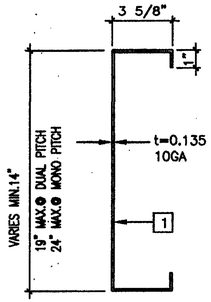


SCALE: 3"=1'

BEAM SPLICE AT RIDGE | 8



OPTIONAL FACIA AT 5' OVERHANG BM. | 4



19 X 3 1/2 X 10 GA. Sx = 17.728 IN 3, Ix = 168.414 IN 4

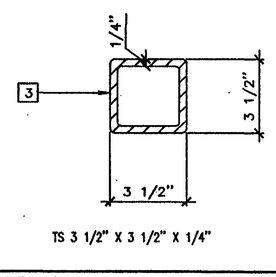
24 X 3 1/2 X 10 GA. Sx = 25.17 IN 3, Ix = 302.04 IN 4

SCALE: 3"=1'

TAPERED ROOF BEAM | 1

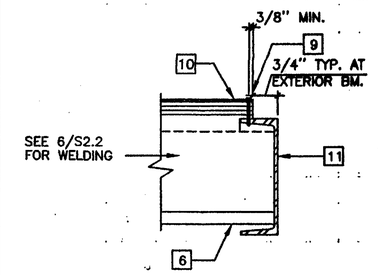
KEY NOTES

1. 10GA. TAPERED RF. BM. SEE DETAIL #1 & #7
2. NOT USED
3. TS 3 1/2"X3 1/2"X1/4" COLUMN
4. ⊏ 14"X12GA. RF. HDR. SEE DETAIL #3
5. NOT USED
6. FLOOR JOIST SEE DETAIL #6
7. 10GA. BENT PLATE BACK-UP
8. STIFFENER PLATE 3"X1/4" THICK AT 4'-0" OC
9. #10 STSMS @ 6" O.C. (SEE S1.0)
10. PLYWOOD FLR. SHEATHING
11. FLOOR BEAM SEE DETAIL #5
12. NOT USED
13. ⊓ 6" X 2 1/2" X 14GA PURLIN
    ALT: ⊓ 4" X 3" X 12GA DETAIL #2
14. STIFFENER PLATE 3"X1/4" THICK AT 8'-0" OC



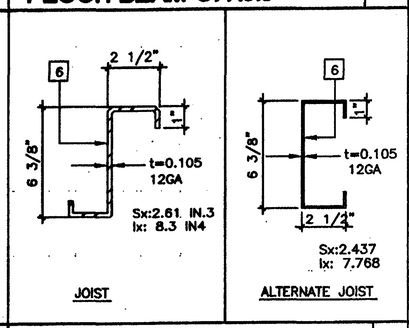
TS 3 1/2" X 3 1/2" X 1/4"

CORNER COLUMN | 12

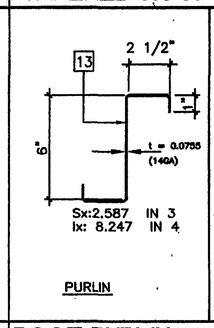


SCALE: 3"=1'

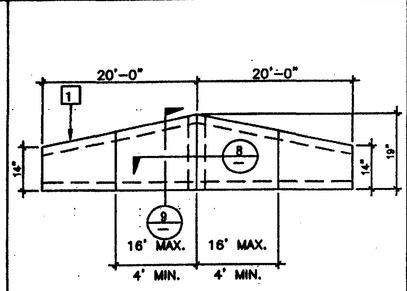
FLR LOIST AT FLOOR BEAM | 10



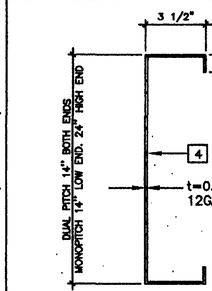
FLOOR JOIST | 6



ROOF PURLIN 3" = 1'-0" | 2



BM. SPLICE • RIDGE (DUAL SLOPE) | 7



SCALE: 3"=1'

ROOF HEADER | 3

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PROJECT NO. 4736

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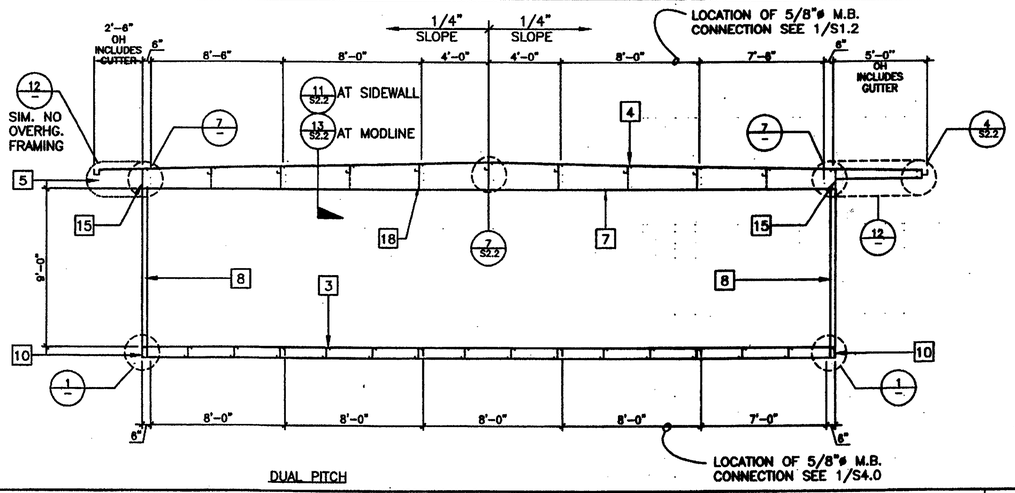
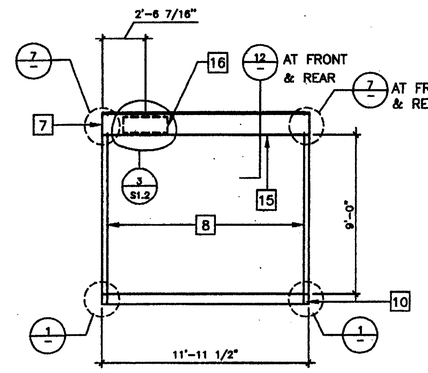


DUAL PITCH

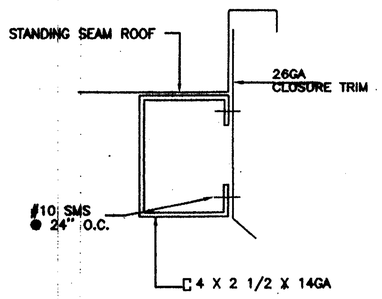
10 SECTION AT SIDEWALL



B SECTION AT ENDWALL A

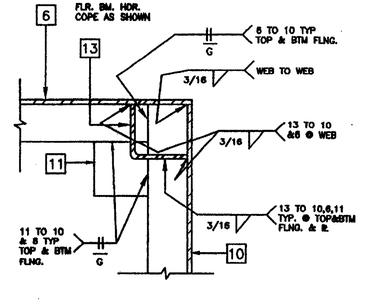
KEY NOTES

1. EN ø PLYWOOD EDGES
2. 22GA STANDING SEAM ROOF
3. 6 3/8"X2 1/2"X12GA. FLR. JOIST 6/S2.2
4. 6X2 1/2"X14GA. ROOF PURLIN 2/S2.2
5. ~~3"X3"X3"X20GA ROOF END CLOSURE W/#10 STDMG W/NEOPRENE WASHER TOP & BOTT.~~
6. [7 X 9.8 FLOOR HEADER
7. [10 GA. TAPERED ROOF BEAM (SEE 1/S2.2) OR 12/S2.2 REFER TO RF. FRAMING PLAN
8. T.S. 3 1/2"X3 1/2"X1/4" COLUMN
9. BACK-UP PLATE MIN. 10 GA.
10. [7X9.8 FLOOR CHANNEL
11. 3 1/2"X3 1/2"X1/4" STEEL PLATE WELDED FLUSH TO TOP AND BOTTOM OF CHANNEL FLANGES
12. NOT USED
13. 3 1/2X3 1/2X1/4 STIFFENER ANGLE COPE TO FIT C7 X 9.8
14. STIFFENER TS 3 1/2X3 1/2X1/4
15. [14"X3 1/2"X12GA. HEADER (SEE 3/S2.2)
16. LOCATION OF HVAC OPENING
17. 3"X3"X1/4" THICK X 1/2" LONG INSERT POST
18. 1/4" FULL DEPTH STIFFENER PLATE AT 4'-0" OC AT EXTERIOR SIDEWALLS ONLY FOR 80 MPH DESIGN WIND LOAD ONLY
19. 1/4" BASE PLATE-INSERT FLUSH WITH STIFFENER TUBE
20. (1) 3"x3"x10 GA TUBE STEEL BACK-UP TUBE OR (4) 10 GA BACK-UP PLATES



SEE 4/S2.2

SECTION THRU OVERHANG BEAM 11



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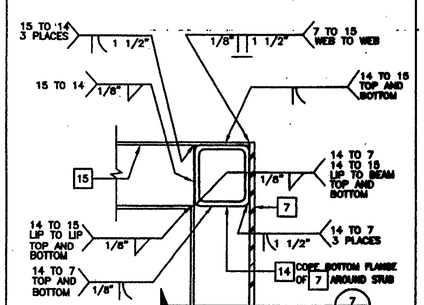
STIFFENER SECTION AT FLOOR 8



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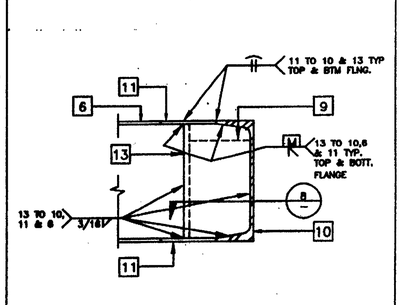
STIFFENER AT ROOF 6



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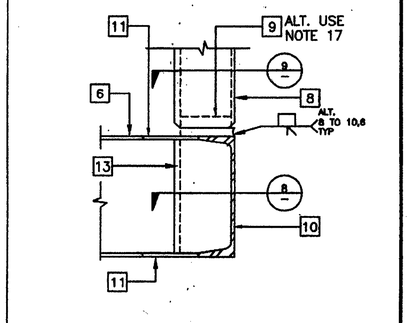
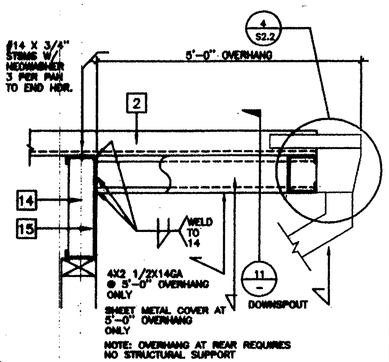
COLUMN CONN. AT FLOOR 4



SCALE: 3"=1'

COLUMN CONN. AT FLR. 1



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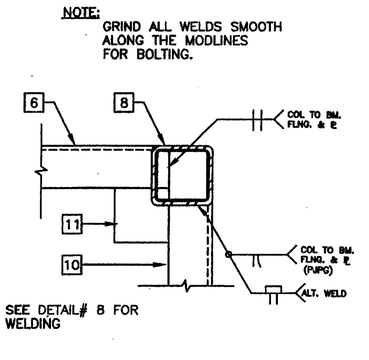
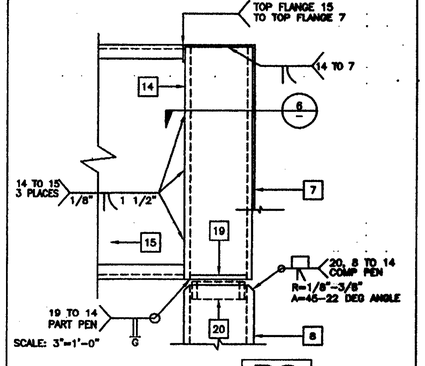
GUTTER AT OVRHNG AT FRONT 12



SEE DETAIL# 8 FOR WELDING

SCALE: 3"=1'

COLUMN AT FLOOR 9



SCALE: 3"=1'-0"

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COLUMN AT ROOF 7

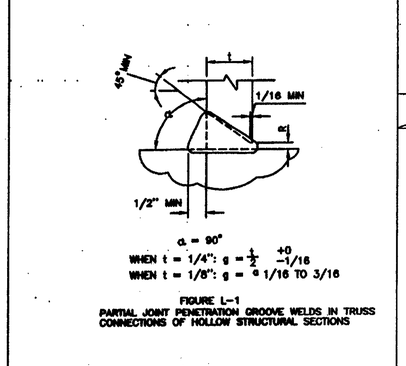
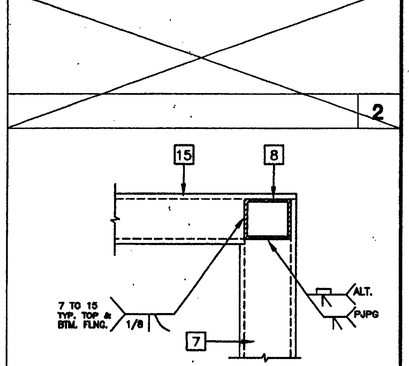


FIGURE L-1
PARTIAL JOINT PENETRATION GROOVE WELDS IN TRUSS CONNECTIONS OF HOLLOW STRUCTURAL SECTIONS

P.J.G.P. WELD DETAIL 5



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COLUMN AT ROOF BEAM 3

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Mechanical Engineer's Seal

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No. C-29934
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MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4736

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WILLIAM SCOTTSMAN

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DATE:

MODTECH Index No.

STRUCTURAL ELEVATIONS W/ FASCIA

S3.0

PROJECT NO.4736

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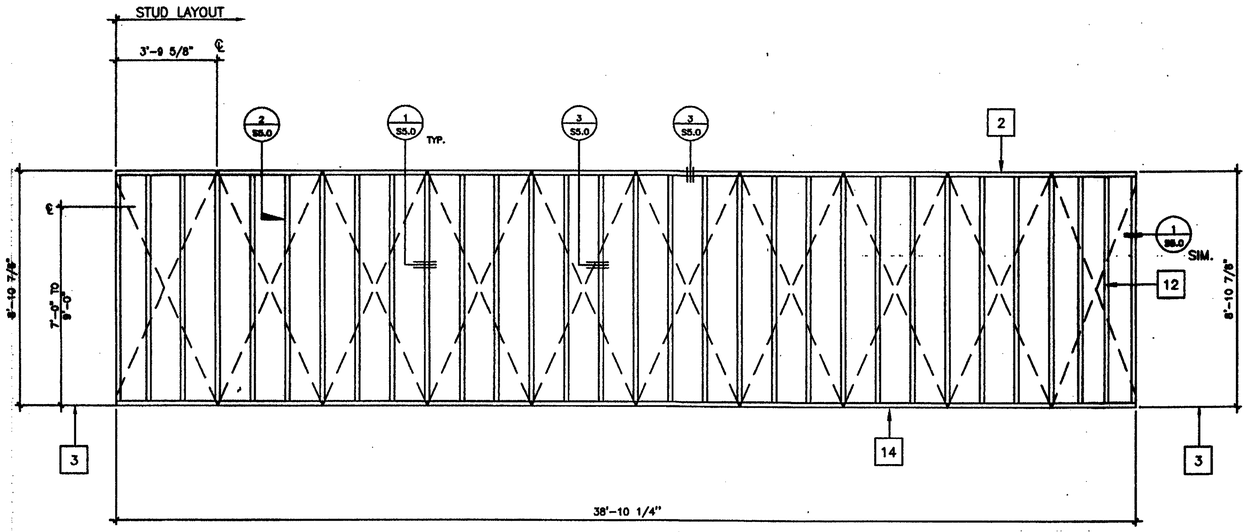

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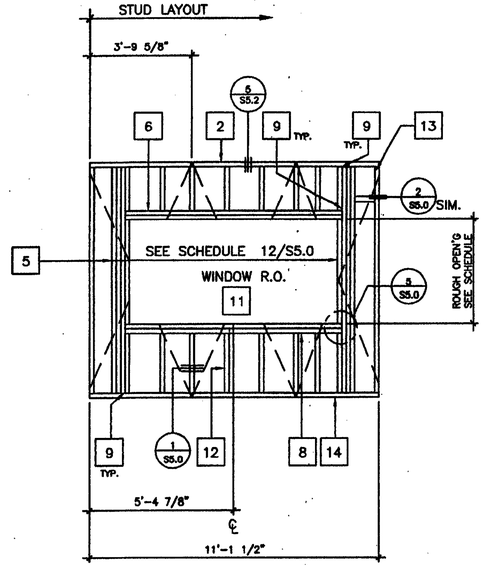

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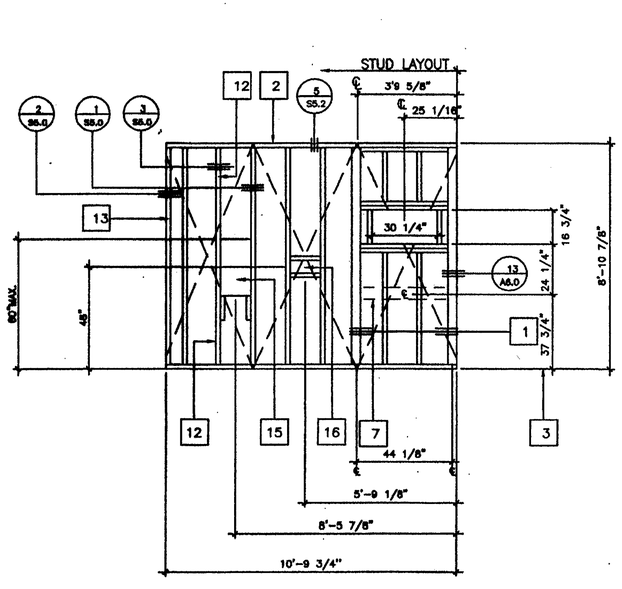

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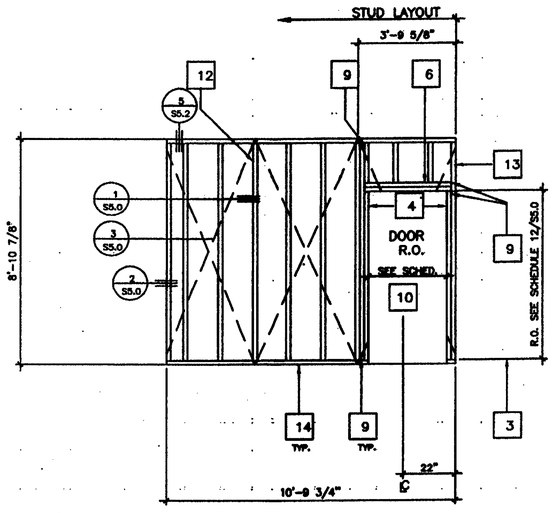

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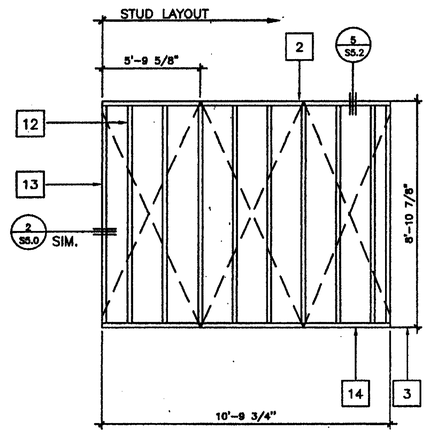

E

SCALE 3/8"=1'

KEY NOTES

1	4 X 4 POST ALT.:USE 2-2X4 W/FACE NAILING
2	2X4 TOP PLATE
3	FINISH FLOOR
4	2X4 FULL HGT. KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANTITY SHT S5.0)
5	FULL HEIGHT STUDS AND 1-2X4 TRIMMER (SEE WINDOW SCHEDULE FOR JAMB STUDS REQUIRED. SHEET S5.0.
6	HEADER (SEE SCHEDULE)
7	2"x6" LET IN FOR AC SUPPORT
8	WINDOW SILL PLATE (SEE SCHEDULE)
9	A 34 CLIPS AT HEADER & SILL TO FULL HGT. STUDS AND FULL HGT. STUDS TO TOP AND BOTTOM PLATES.SEE 4/S5.0
10	REQUIRED OPENING FOR A 3068 DOOR (SEE DETAIL 7/S5.0)
11	REQUIRED OPENING FOR A 8040 WINDOW (SEE DETAIL 6/S5.0)
12	2X4 STUD AT 16" O.C. TYPICAL
13	2X4 NAILER TYPICAL AT EACH END
14	2X4 SILL PLATE
15	FRAME FOR ELECTRICAL PANEL
16	THERMOSTAT LOCATION 4S BOX
17	~~2"x4" BLOCKING AT EXTERIOR PLYWOOD SIDING JOINT~~

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Mechanical Engineer's Seal

PC Professional of Record Seal
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FRED LINDSEY HALLOCK
No. C-24809
12/31/05
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PROJECT NUMBER: 4736
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WALL FRAMING

WOOD STUDS

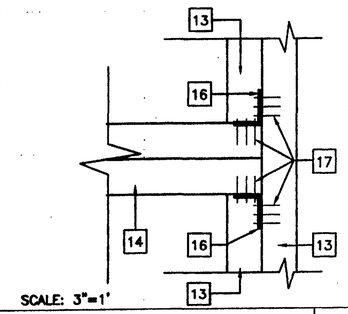
Modtech Index No.
S4.0

NAILING SHEDULE

CONNECTION	NAILING [1]
1. JOIST TO SILL OR GIRDER,TOENAIL	2–10d
2. BRIDGING TO JOIST, TOENAIL END END	2–8d
3. 1" X 6" (25 mm X 152mm) SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL.	2–78d
4. WIDER THAN 1" X 6" (25 mm X 152 mm) SUBFLOOR TO EACH JOIST, FACE NAIL.	3–8d
5. 2" (51MM) SUBFLOOR TO JOIST OR GRINDER, BLIND AND FACE NAIL.	2–16d
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL.	16d at 16" (406mm) o.c.
SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PENELS	3–16d per 16" (406mm)
7. TOP PLATE TO STUD, END NAIL.	2–16d
8. STUD TO SOLE PLATE	4–8d, toenail or 2–16d, end nail
9. DOUBLE STUDS, FACE NAIL.	16d at 24" (610mm) o.c.
10. DUOBLE TOP PLATES, TYPICAL FACE NAIL.	16d at 16" (406mm) o.c.
DOUBLE TOP PLATES, LAP SPLICE.	8–16d
11. BLOCKING BETEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL.	3–8d
12. RIM JOIST TO TOP PLATE, TOENAIL.	8d at 6" (152mm) o.c.
13. TOP PLATES, LAP AND INTERSECTIONS, FACE NAIL.	2–16d
14. CONTINUOUS HEADER, TWO PIECES.	16d at 16" (406mm) o.c. along each edge
15. CEILING JOIST TO PLATE, TOENAIL.	3–8d
16. CONTINUOUS HEADER TO STUD, TOENAIL.	4–8d
17. CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL.	3–16d
18. CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL.	3–16d
19. RAFTER TO PLATE, TOENAIL.	3–8d
20. 1" (25 mm) BRACE TO EACH STUD AND PLATE, FACE NAIL.	2–8d
21. 1" X 8" (25 mm X 203 mm) SHEATHING OR LESS TO AECH BEARING, FACE NAIL.	2–8d
22. WIDER THAN 1" X 8" (25mm X 203mm) SHEATHING TO EACH BEARING, FACE NAIL.	3–8d
23. BUILT–UP CORNER STUDS	16d at 24" (610mm) o.c.
24. BUILT–UP GIRDER AND BEAMS.	20d AT 32" (813 mm) O.C. AT TOP AND BOTTOM AND STAGGERED 2–20d AT ENDS AND AT EACH SPLICE.
25. 2" (51mm) PLANKS	
26. WOOD STRUCTURAL PANELS AND PARRICLEBOARD:[2] SUBFLOOR, ROOF AND WALL SHEARING (TO FRAMING): (1 INCH=25.4mm)	
1/2" AND LESS	6d[3]
19/32" – 3/4"	8d[4] OR 8d[5]
7/8" – 1"	8d[3]
1 1/8" – 1 1/4"	10d[4] OR 8d[5]
COMBINATION SUBFLOOR–UNDERLAYMENT (TO FRAMING): (1 INCH=25.4mm)	
3/4" AND LESS	6d[5]
7/8" – 1"	8d[5]
1 1/8" – 1 1/4"	10d[4] OR 8d[5]
27. PANEL SIDING (TO FRAMING): 1/2" (13 mm) OR LESS	6d[6]
5/8" (16 mm)	8d[6]
28. FIBREBOARD SHEATHING 1/2" (13 mm)	NO. 11 GA[8] 6d[4]
25/32" (20 mm)	NO. 16 GA.[8] NO 11 GA.[8] 8d[4] NO.16 GA.[8]
29. INTER PANELING 1/4" (6.4 mm)	4d 10
3/8" (9.5 mm)	6d 11

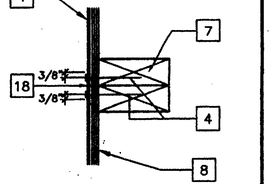
NOTE: All nail shall be box nails unless otherwise noted.

1. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
2. NAILS SPACED AT 6"(152MM) ON CENTER AT EDGES, 12"(305MM) AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152MM) AT ALL SUPPORTS WHERE SPANS ARE 48"(1219MM) OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE DIAPHRAMS AND SHEAR WALLS, REFERTO SECTION 2314.3. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.
3. COMMON OR DEFORMED SHANK
4. COMMON
5. DEFORMED SHANK
6. CORROSION–RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2325.1.
7. FASTENERS SPACED 3 INCHES(76MM) ON CENTER AT EXTERIOR EDGES AND 6 INCHES(152MM) ON CENTER AT INTERMEDIATE SUPPORTS.
8. CORROSION–RESISTANT ROOFING NAILS W/7/16(11MM) HEAD AND 1 1/2 INCH(38MM) LENGHT FOR 1/2 INCH(13MM) SHEATHING AND 1 3/4 INCH(44MM) LENGHT FOR 25/32 INCH(20MM) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2325.1.
9. CORROSION–RESISTANT STAPLES WITH NOMINAL 7/16 INCH(11MM) CROWN AND 1 1/8 INCH(29MM) LENGHT FOR 1/2 INCH(13MM) SHEATHING AND 1 1/2 INCH(38MM) LENGHT FOR 25/32 INCH(20MM) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2325.1.
10. PANEL SUPPORTS AT 16 INCHES(406MM) 120 INCHES(508MM) IF STRENGGHT AXIS IS IN THE LONG DIRECTION OF PANEL, UNLESS OTHERWISE MARKED. CASING OR FINISH NAILS SPACED 6 INCHES(152MM) ON PANEL EDGES. 12 INCHES (102MM) AT INTERMEDIATE SUPPORTS.
11. PANEL SUPPORTS AT 24 INCHES(610MM). CASING OR FINISH NAILS SPACED 6 INCHES(152MM) ON PANEL EDGES. 12 INCHES(305MM) AT INTERMEDIATE SUPPORTS.
12. NAIL DRAWN INTO PRESSURE TREATED SILL PLATES SHOULD BE GALV.



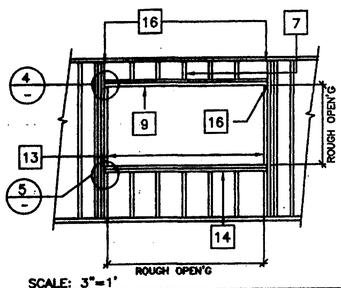
SCALE: 3"=1'

9 **WINDOW SILL AT JAMB** 5



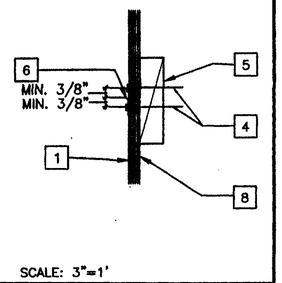
SCALE: 3"=1'

DETAIL AT VERT. PLYWOOD EDGES 1



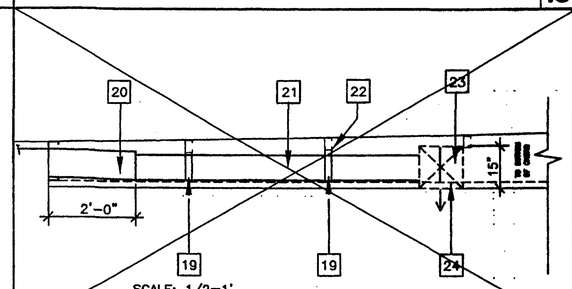
SCALE: 3"=1'

10 **TYP. WINDOW FRAMING** 6



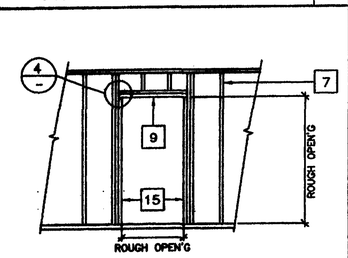
SCALE: 3"=1'

DETAIL AT HORIZ. PLYWOOD JOISTS 2



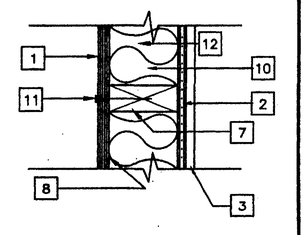
SCALE: 1/2=1'

SECTION: HVAC IN ROOF 11



SCALE: 3"=1'

TYP. DOOR FRAMING 7



SCALE: 3"=1'

SECTION AT STUD 3

KEY NOTES

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

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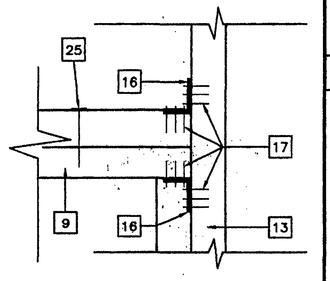
OPENING SCHEDULE				ROUGH OPENING	
OPENING	HDR.	SILL	JAMB	HEIGHT	WIDTH
3068	(2) 2X4	(2) 2X4	(2) 2X4 *	81 1/4"	38"
8040	(3) 2X4	(2) 2X4	(3) 2X4 *	48 1/8"	96 1/8"

* FULL HEIGHT STUDS

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

ROUGH OPENING SCHEDULE 12



SCALE: 3"=1'

HEADER DETAIL 4

NOTES

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

04 105455
JUL 10 2003

REVISIONS			
1			
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Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
LICENSED ARCHITECT
PROFESSIONAL SEAL
No. C-24626
12/31/03
RENEWAL DATE
STATE OF CALIFORNIA

Architects Seal

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CBC 2001
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OFFICE OF REGULATION SERVICES
PC–04
104796
AC. FLS. SS.
DATE 5/3/07

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

PROJECT NUMBER: 4736
WILLIAM SCOTTSMAN

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DATE:

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FRAMING DETAILS

WOOD STUDS

S5.0

PROJECT NO.4736
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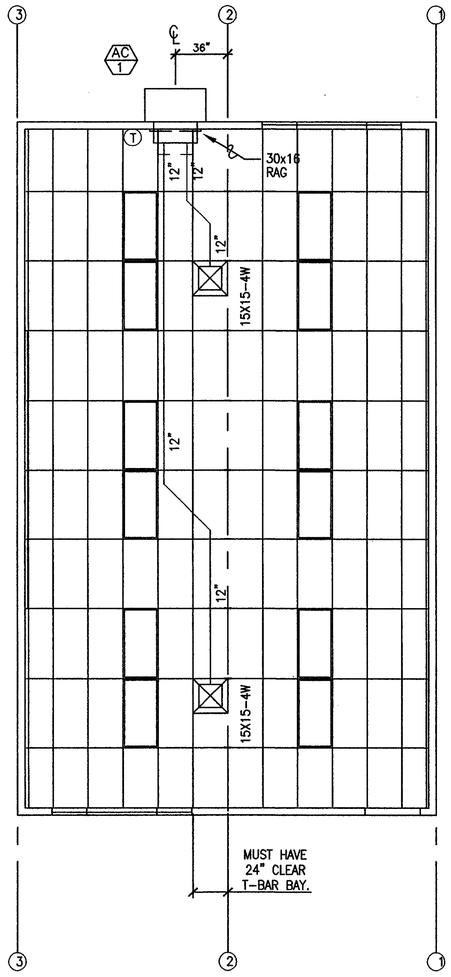
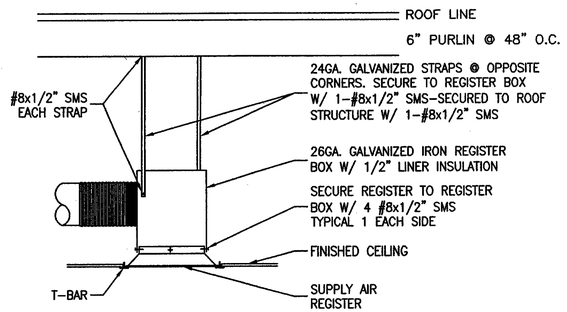


AIR CONDITIONING PLAN VIEW 24'X40' BUILDING

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

TYP. OF 1 BUILDING.



REGISTER BOX DETAIL

N.T.S.

EQUIPMENT & MATERIAL SCHEDULE

AC 1 — MARVAIR MODEL# AVP42HPA05NB WALL MOUNTED HEAT PUMP
42,500 BTUH COOLING, SEER = 10.20
42,500 BTUH HEATING, HSPF = 6.60
1,400 CFM NOMINAL @.2"S.P.,WT. = 545 LBS.
208/230v-1PH-60CY, MAX. F.L.A. = 48.53 AMPS
WITH FACTORY MOTORIZED DAMPER

SUPPLY AIR PLENUM: GALV. IRON SHEETS W/ 1/2" LINER INSULATION

INTERIOR DUCTWORK:FLEX DUCT CLASS 1 UL-181

REGISTER BOXES: GALV. IRON SHEETS W/ 1/2" LINER INSULATION

SUPPLY AIR REGISTERS: METALAIRE '7650-6' SERIES

RETURN AIR GRILLES: METALAIRE 'RH' SERIES

THERMOSTAT: WHITE RODGERS '1F92' SERIES

ATTACH ALL SUPPLY AND RETURN AIR REGISTERS TO REGISTER BOXES WITH 4-#8x1/2" S.M.S. - ATTACH REGISTER BOX TO ROOF STRUCTURE WITH 2-1 1/2" GALV. STRAPS AT OPPOSITE CORNERS

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LEGEND AND ABBREVIATIONS

SUPPLY DUCT	DIRECTIONAL AIR FLOW
RETURN DUCT	BAROMETRIC RELIEF DAMPER THRU WALL
12" NUMBER INDICATES DUCT SIZE	UCD UNDERCUT DOOR
RETURN REGISTER	(R) BAROMETRIC RELIEF DAMPER THRU ROOF
RETURN REGISTER	(T) THERMOSTAT (+ 48")
SUPPLY REGISTER	DAMPER
EXHAUST FAN	EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE BOTTOM = IDENTIFICATION
12"x12" HOLE THRU BEAM	E ELECTRICAL LOCATION
16"x12" HOLE THRU BEAM	CD CONDENSATE DRAIN
FIRE DAMPER	G GAS LOCATION

MECHANICAL (HVAC) PLAN (12-LIGHTS)

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

PC
CBC 2001

REVISIONS	Electrical Engineer's Seal	Mechanical Engineer's Seal	PE Professional of Record Seal	Architects Seal	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 104796 AC FLS SSN DATE 5/9/03
1 2 3 4 5			REGISTERED PROFESSIONAL ENGINEER MECHANICAL 16/31/02 STATE OF CALIFORNIA		

MODTECH INC.™
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WILLIAM SCOTTSMAN

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MECHANICAL (HVAC) PLAN 3 1/2 TON

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PROJECT NO. 4736

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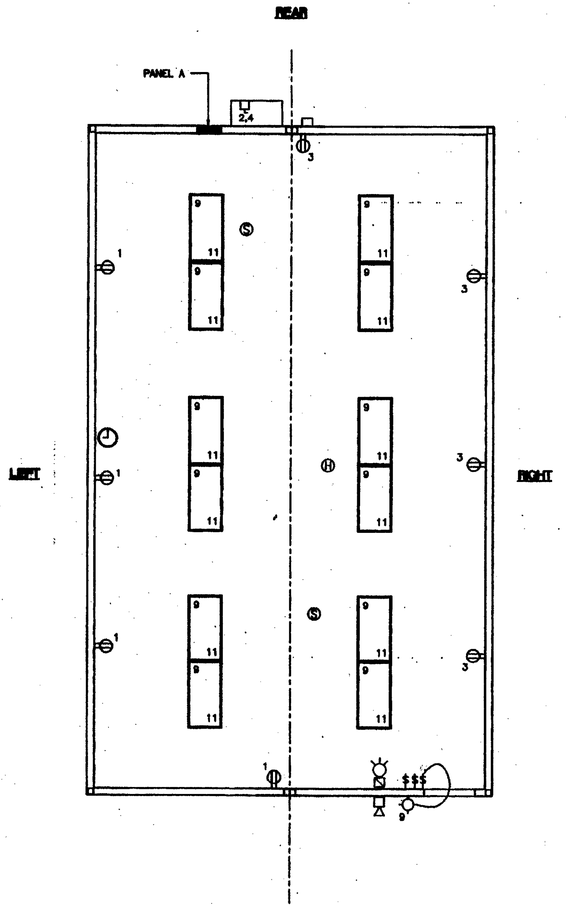
FILE PATH: --

ELECTRICAL PANEL SCHEDULE

MAIN: 100 AMP 12 POLE — PANEL: A — LOCATION: REAR/INTERIOR — FEED: REAR — MOUNTING: FLUSH

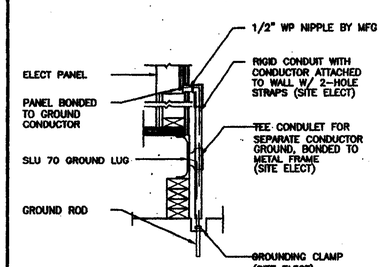
LOAD	WATTS A⌀	WATTS B⌀	BREAKER Amps	P	CKT	A	B	CKT	P	BREAKER Amps	WATTS A⌀	WATTS B⌀	LOAD
RECEPTACLE	720		20	1	1			2	2	60	7080		HVAC (3 1/2T)
RECEPTACLE/CLOCK		720	20	1	3			4	--	--		7080	HVAC (3 1/2T)
					5			6					
					7			8					
INT/EXT LIGHTS	900		20	1	9			10					
INT. LIGHTS		840	20	1	11			12	--	--	40		FIRE ALARM (DEDICATED)
WATTS/PHASE A = 8700	1620	1560									7080	7120	B = 8680 WATTS/PHASE
TOTAL 17380 WATTS	72 AMPS		120/240 VOLTS						SINGLE ⌀		THREE WIRE		



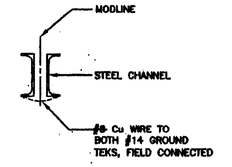
ELECTRICAL PLAN (24'x40')
OPP-HAND
SCALE: 1/4" = 1'-0"

GENERAL GROUNDING NOTES

1. EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURRIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL)
2. TESTING: TEST FOR RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 8'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (BY SITE ELECTRICAL)
3. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.
4. GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.



TYP GROUNDING DETAIL | 1



GROUND JUMPER • MOD LINE | 2

ELECTRICAL LEGEND

- 2'x4' T8 LIGHTS W/ELECT. BALLAST
- EXTERIOR LIGHT FIXTURE AT +93" AFF
- SWITCH AT +48" AFF
- SWITCH AT +48" AFF FOR EXT. LIGHT
- DUPLEX WALL RECEPTACLE 15A 125V 3-WIRE AT +18" AFF UON
- HVAC UNIT (HV)
- 4SD J-BOX FOR FIRE ALARM PULL STATION AT +48" AFF, 3/4" CO TO OR . PULLSTRING
- 4SD J-BOX FOR FIRE ALARM STROBE/HORN AT +80" TO TO BOTTOM OF DEVICE AFF. 3/4" CO TO PULLSTRING.
- 4SD J-BOX FOR FIRE ALARM HORN AT +96" AFF 3/4" CO TO . PULLSTRING
- WEATHER PROOF GUTTER BOX (8"x6"x4") AT +18" AFF RECEIVE 3/4" CO FROM FA DEVICE, PULLSTRING
- ELECTRICAL PANEL AT +80" AFF TO CENTERLINE 1 1/4" POWER NIPPLE POC, GND JUMPER BY SITE ELECT
- CLOCK AT +90" AFF
- (H) 4SD J-BOX FOR HEAT DETECTOR (ATTIC) * MAX 25' FROM ANY WALL AND 50' BETWEEN THEM.
- (S) 4SD J-BOX FOR SMOKE DETECTOR (ATTIC) * MAX 15' FROM ANY WALL AND 30' BETWEEN THEM.
- [D] 2 GANG J-BOX AT 18" w/ CONDUIT STUBBED UP TO ATTIC SPACE.

NOTES

1. SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE ARCHITECTS INFORMATION ONLY:

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

FOR ELECTRICAL DRAWINGS:

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

EQUIPMENT ON GRADE	33% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	40% OF OPERATING WEIGHT

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

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

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

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AC. FLS SS
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JUL 10 2003

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PROJECT NO. 4736

PC- 04-104796

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Electrical Engineer's Seal

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LICENSED ARCHITECT
WILLIAM SCOTTSMAN HALLOCK
No. C-26886
12/31/03
RENEWAL DATE
STATE OF CALIFORNIA

Architects Seal

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MODTECH, INC.
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WILLIAM SCOTTSMAN

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ELECTRICAL PLAN W/O DATA

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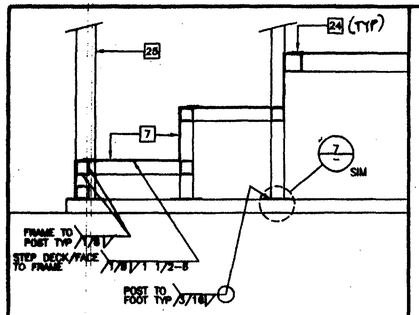
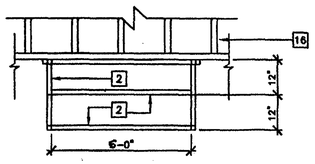


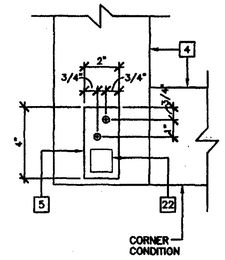
SCALE: 1 1/2"=1'-0" (OPTIONAL)

STAIR SECTION 16



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

STAIR FRAMING PLAN 12



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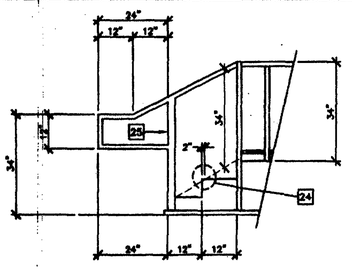
ADJUSTABLE LEG BASE PLATE 8



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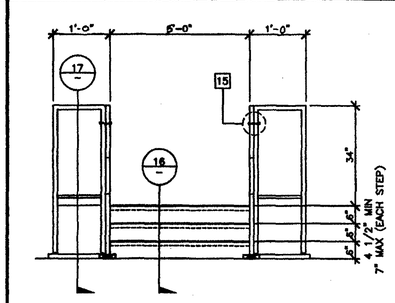
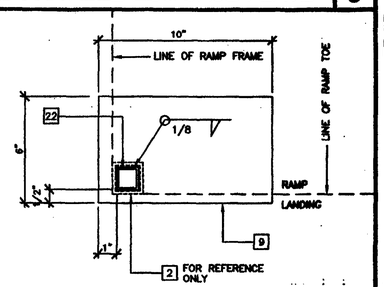
STAIR ELEVATION 17



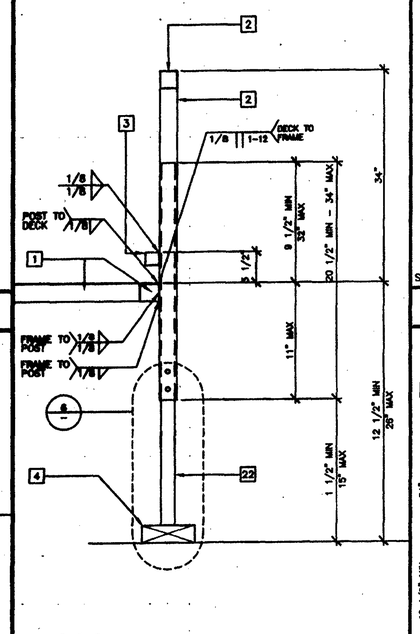
SCALE: 1/2"=1'-0" (OPTIONAL)

STAIR ELEVATION 13



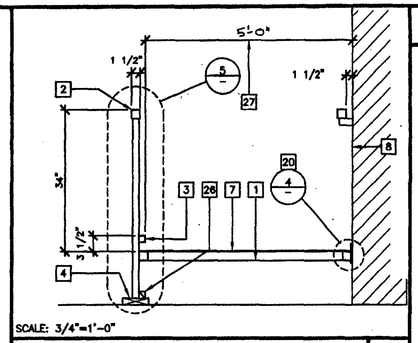
SCALE: 3"=1'-0"

BASE PLATE AT RAMP TOE 9



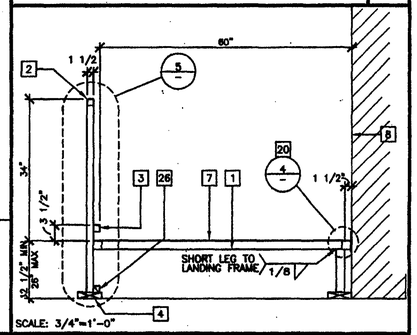
SCALE: 3"=1'-0"

ADJUSTABLE LEG 5



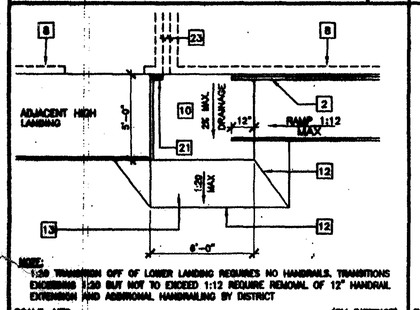
SCALE: 3/4"=1'-0"

SECTION AT RAMP 1



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

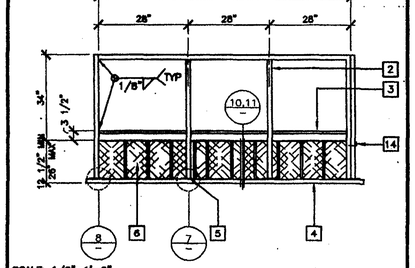
SECTION AT LANDING 2



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

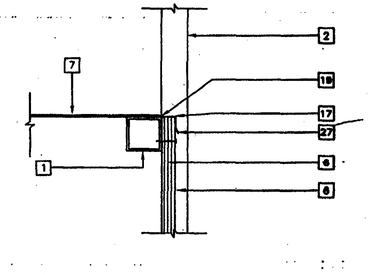
SCALE: NTS (BY DISTRICT)

RAMP TRANSITION 18



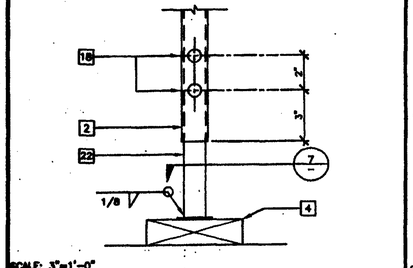
SCALE: 1/2"=1'-0"

LANDING ELEVATION 14



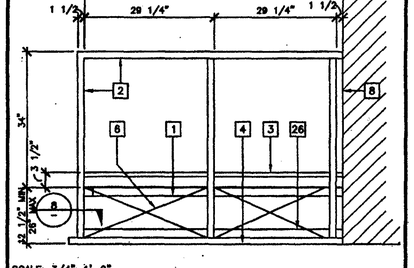
SCALE:3"=1'-0"

SKIRT FLASHING 10



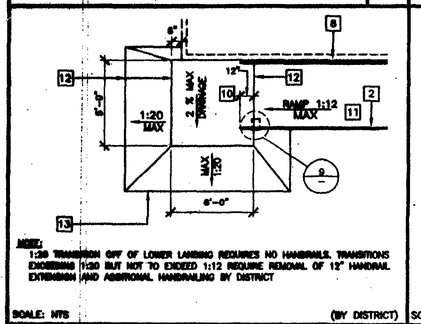
SCALE: 3"=1'-0"

ADJUSTABLE LEG 6



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

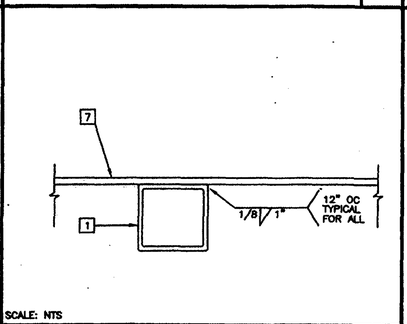
END ELEVATION 3



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

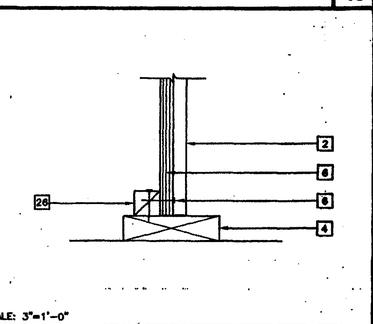
SCALE: NTS (BY DISTRICT)

RAMP TRANSITION 19



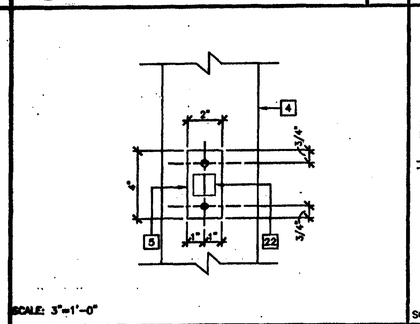
SCALE: NTS

SECTION AT INTERIOR FRAME 15



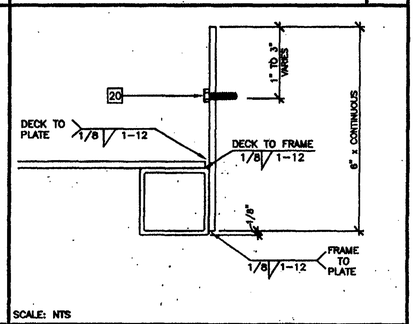
SCALE: 3"=1'-0"

SKIRT AT SILL PLATE 11



SCALE: 3"=1'-0"

ADJUSTABLE LEG BASE PLATE 7



SCALE: NTS

SECTION AT PLATE 4

KEY NOTES

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

04 10 4 JUL 10 2003

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DATE JUL 17 2003

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DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAY 05 2003

FILE PATH:

PROJECT NO. 4736

PC-04-104796

REVISIONS

1		
2		
3		
4		
5		

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
LICENSED ARCHITECT
FRED VINCENT WALLACE
No. C-20598
12/31/03
RENEWAL DATE
STATE OF CALIFORNIA

Architects Seal

PC
CBC 2001
IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
PC-04
104796
AC FLS SS
DATE 5/7/03

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

PROJECT NUMBER: 4736
WILLIAM SCOTTSMAN

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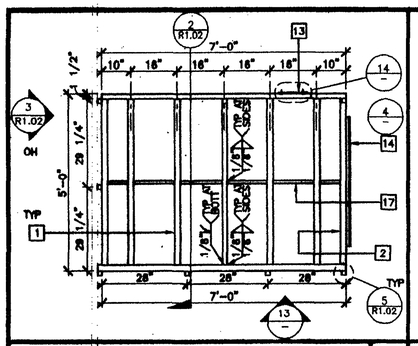
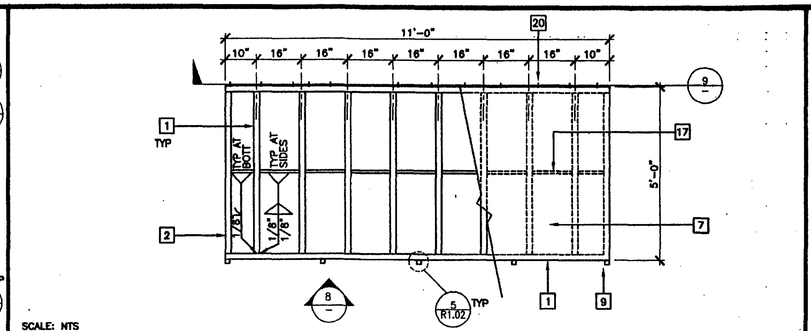
DATE:

RAMP/LANDING DETAILS

Modtech Index No.
R1.02



LANDING FRAME | 12



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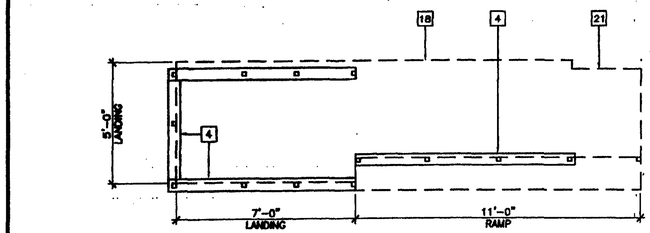
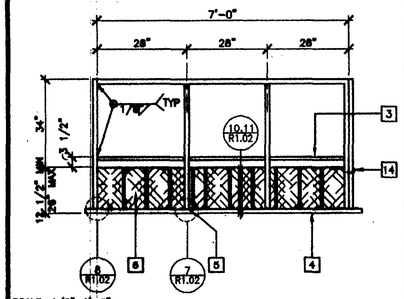
RAMP FRAME | 7



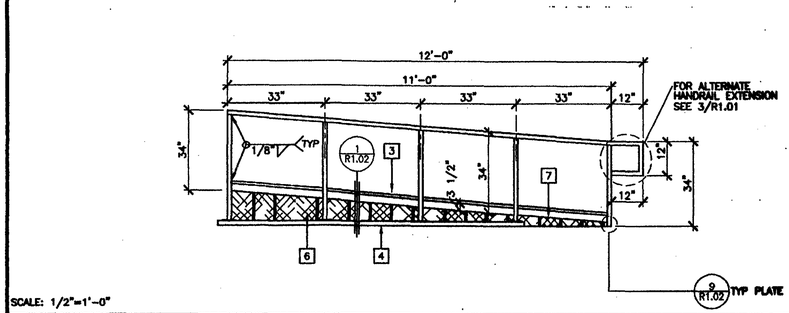
SCALE: 3/8"=1'-0"

SILL PLAN FOR RAMP AND LANDING | 1



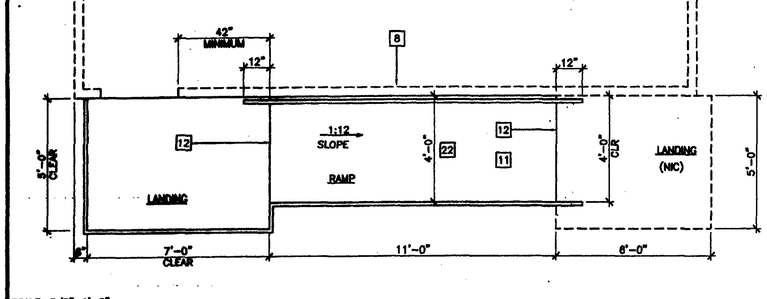
SCALE: 1/2"=1'-0"

LANDING ELEVATION | 13



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

RAMP ELEVATION | 8



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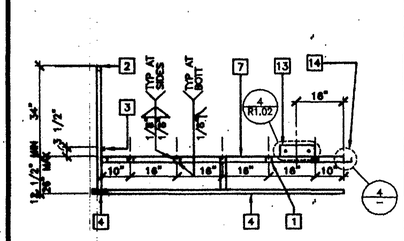
RAMP AND LANDING AT BUILDING | 2



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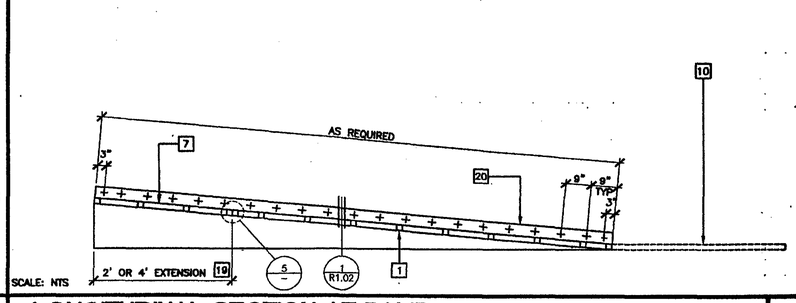
SECTION AT LANDING | 14



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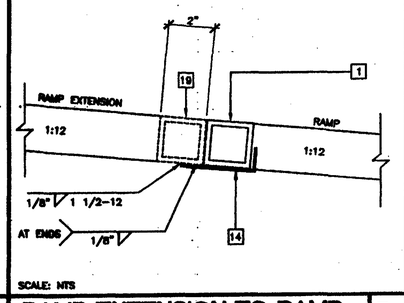
LONGITUDINAL SECTION AT RAMP | 9



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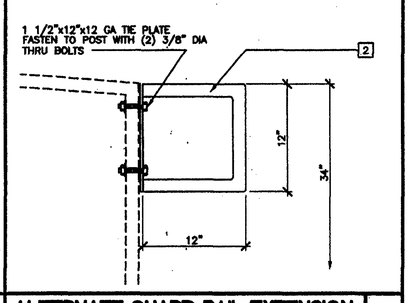
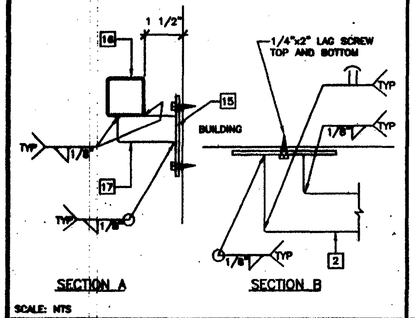
RAMP EXTENSION TO RAMP | 5

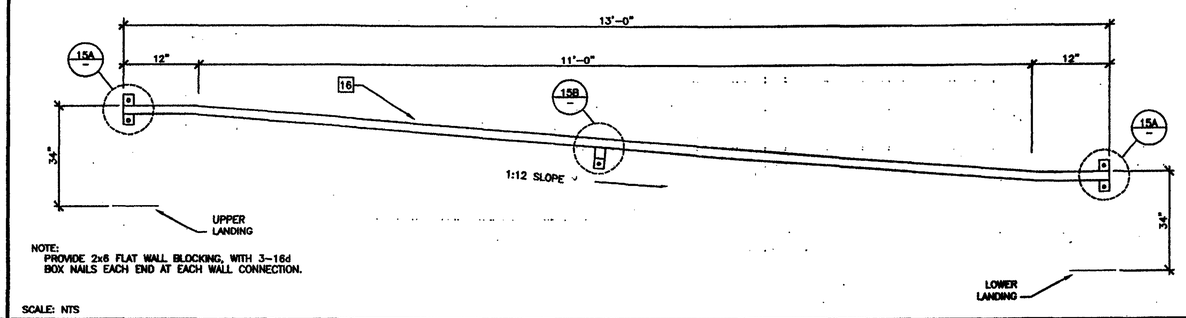


ALTERNATE GUARD RAIL EXTENSION | 3



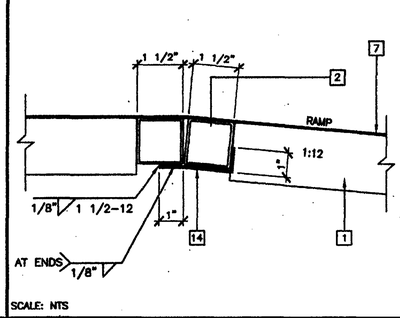
SCALE: NTS

HANDRAIL CONNECTION | 15



SCALE: NTS

HANDRAIL ATTACHED TO BUILDING (OPTIONAL) | 6



SCALE: NTS

RAMP AT LANDING | 4

KEY NOTES

1. TS 2"x2"x14 GA
2. TS 1 1/2"x1 1/2"x14 GA (Fy = 39KSI). ROUNDED OR BEVELED AT CORNERS
3. TS 1"x1"x16 GA WHEELCHAIR GUIDE
4. 2"x8" PRESSURE TREATED SILL PLATE
5. 2"x4"x12 GA BASE PLATE WITH (2) 1/4"x1" LAGS
6. SKIRTING: PLYWOOD TO MATCH BUILDING SIDING. BLOCK ALL EDGES. ATTACH WITH 8d AT 6" OC EDGES AND 12" OC FIELD. AT EDGE CONNECTION TO TUBE STEEL USE #14x2" TEK SCREWS AT 6" OC
7. 12 GA METAL DECK: NON-SLIP SURFACE. DESIGN COEFFICIENT OF FRICTION GREATER THAN 6%. MAINTAINABLE FOR 1 YEAR
8. EXISTING BUILDING
9. 6"x10"x12 GA BASE PLATE AT RAMP TOE
10. LOWER LANDING BY DISTRICT
11. RAMP BY MODTECH
12. FLUSH TRANSITION
13. 6"x12"x10 GA PLATE WITH (2) 1/4"x3" LAGS TO STRUCTURAL FRAME OF BUILDING
14. 3"x1"x3'-0"x10 GA BENT PLATE
15. 2"x4"x 1/8" PLATE
16. TS 1 1/2"x1 1/2"x14 GA HANDRAIL – CONTINUOUS AND UNINTERRUPTED. ROUNDED OR BEVELED AT CORNERS
17. TS 1"x1"x16 GA RAIL SUPPORT
18. LINE OF RAMP/LANDING ABOVE
19. RAMP EXTENSION FRAME
20. 6"x10 GA CONTINUOUS PLATE WITH 1/4"x2" TEK SCREWS AT 9" OC INTO WOOD OR FOUNDATION BLOCKS OR #14x2" TEK SCREWS INTO STEEL AT 9" OC
21. NOTCH BOTTOM PLATE (MUD SILL) AS REQUIRED TO CLEAR RAMP TOE. MAX NOTCH 1 1/2"x4'-0" LONG.
24. NOTCH BOTTOM PLATE (MUD SILL) AS REQUIRED TO CLEAR RAMP TOE. MAX NOTCH 1 1/2"x4'-0" LONG.

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AC. FLS SS
DATE JUL 17 2003

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APP03 112317
AC. FLS SS
DATE MAR 05 2020

NOTES

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

FILE PATH: ---

REVISIONS	Electrical Engineer's Seal	Mechanical Engineer's Seal	PC Professional of Record Seal	Architects Seal	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
1			LICENSED ARCHITECT, PROFESSIONAL SEAL, No. C-19998, 12/31/05, RENEWAL DATE, STATE OF CALIFORNIA		PC-04 104796 AC. FLS SS DATE
2					
3					
4					
5					

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PROJECT NUMBER: 4736
WILLIAM SCOTTSMAN

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DRAWN BY: GL
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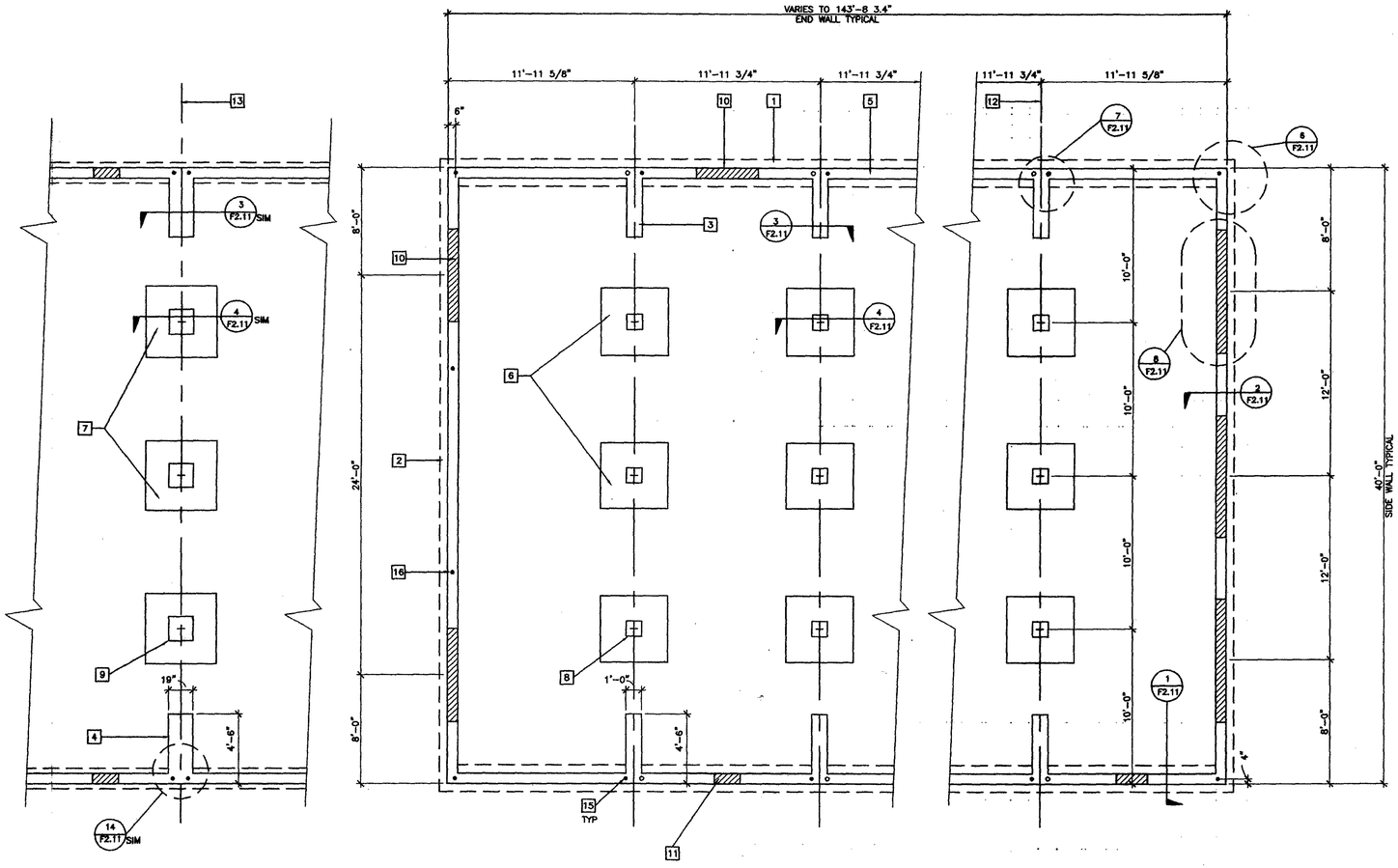
DATE:

RAMP/LANDING 11' RAMPS

MODTECH Index No.
R5.01

PROJECT NO.4736
PC-04-104796



FOOTINGS AT ADJACENT BUILDING
(OPTIONAL 4" SEPARATION)

FOUNDATION PLAN

ABOVE GRADE CONCRETE
SCALE: 1/4" = 1'-0"

DATE SIGNED
APR 28 2003

PC
CBC 2001

FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	50 PSF	50+20 PSF	100 PSF	125 PSF
SIDEWALL	SEE SHEET F2.01	SEE SHEET F2.01	12"/14"*	14"/15"*
ENDWALL			20"/21"*	21"/23"*
PAD			4'-0"/4'-0"* 3-#5 EW	4'-4"/4'-9"* 3-#5 EW
PAD AT 4" SEPARATION			4'-3"/4'-7"* 3-#5 EW	4'-7"/4'-11"* 3-#5 EW

* = VALUE FOR CONCRETE FLOOR

VENTING SCHEDULE (WOOD FLOORS ONLY)

BUILDING	(SF) AREA	(SF) VENTING REQUIRED	SIDE WALL VENTING	SIDE WALL VENT AREA	END WALL VENTING	END WALL VENT AREA	TOTAL VENT SUPPLIED
24'x40'	960	6.4	(4) A	7.0	–	–	7.0
36'x40'	1440	9.6	(6) A	10.5	–	–	10.5
48'x40'	1920	12.8	(6) B	14	–	–	14
60'x40'	2400	16	(6) B	14	(2) C	2.33	16.33
72'x40'	2880	19.2	(6) B	14	(4) C (1) D	2.25	19.25
84'x40'	3360	22.4	(6) B	14	(7) C (1) D	8.75	22.75
96'x40'	3840	25.6	(6) B	14	(10) C	11.66	25.66
108'x40'	4320	28.8	(6) B	14	(13) C	15.16	29.16
120'x40'	4800	32	(6) B	14	(15) C (1) D	18.07	32.07
132'x40'	5280	35.2	(6) B	14	(18) C (1) D	21.57	33.57
144'x40'	5760	38.4	(6) B	14	(21) C	24.49	38.49

LEGEND

VENT A 6'x3.5" = 1.75 SF
VENT B 8'x3.5" = 2.33 SF
VENT C 4'x3.5" = 1.166 SF
VENT D 2'x3.5" = 0.583 SF

NOTE: DELETE ALL UNDER FLOOR VENTS THE CONCRETE FLOOR OPTION.

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OFFICE OF REGULATION SERVICES
04 105455
AC. — FLS — SS NA
DATE MAY 2 0 2004

KEY NOTES

1. END WALL FOOTING – SEE FOOTING SCHEDULE.
2. SIDE WALL FOOTING – SEE FOOTING SCHEDULE
3. INTERIOR RETURN FOOTING – SEE FOOTING SCHEDULE
4. MODLINE RETURN AT 4" SEPARATION – OPTIONAL
5. STEM WALL – 8" TYPICAL UON
6. MODLINE PAD
7. MODLINE PAD AT 4" SEPARATION – OPTIONAL
8. 12" DIA OR SQUARE PEDESTAL (TYPICAL AT MODLINE)
9. 19" DIA OR SQUARE PEDESTAL (TYPICAL AT 4" SEPARATION)
10. TYPICAL VENT
11. ADDITIONAL END WALL VENTS AS REQUIRED (24" MAXIMUM LENGTH) OR INCREASE VENT HEIGHT AS REQUIRED AT SIDEWALLS
12. MODLINE
13. 4" BUILDING SEPARATION – ADJACENT BUILDINGS – OPTIONAL
14. NOT USED
15. ANCHOR BOLT LOCATION – (1) AT EACH CORNER OF BUILDING. (2) AT EACH MODLINE LOCATION.
16. ANCHOR BOLT AT SIDEWALL – 13'-4" OC FOR BUILDING SIZE 60'x40' OR LARGER

NOTES

1. SOIL TYPE AND FOUNDATION
   A. BEARING: SOIL BEARING VALUE OF 1000 PSF USED FOR DESIGN.
   B. FOOTINGS: ALL FOOTINGS SHALL EXTEND 12 INCHES MINIMUM INTO NATIVE SOIL OR APPROVED ENGINEERED FILL.
2. CONCRETE
   ALL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM STRENGTH AT 28 DAYS: FOOTINGS: fc' = 3000 PSI (DESIGN BASED ON f'c = 2000 PSI),
   CONCRETE SHALL CONFORM TO TITLE 24 SECTION 1905A.2.3 METHOD A OR B. ALL CEMENT SHALL BE TYPE 1 OR TYPE 11 PER ASTM C-150.
   METHOD "A" NON-DESIGNED MIX PER TABLE 19A-A-8.
   MINIMUM 7.1 SACKS PER YARD. WATER CONTENT SHALL NOT EXCEED 6 GALLONS PER SACK. AGGREGATE SHALL BE 3/4" TO 1" MAXIMUM SIZE BUT NOT MORE THAN 3/4" OF MINIMUM CLEAR BAR SPACING.
   METHOD "B" PER SECTION 1905A.3.1,
   CONCRETE SUPPLIER SHALL PROVIDE CONCRETE MIX DESIGN AND A BREAK HISTORY OF 30 CONSECUTIVE BREAKS IDENTIFIED TO THAT MIX DESIGN. ALTERNATE – PROVIDE 15 CONSECUTIVE BREAKS IDENTIFIED TO THAT MIX DESIGN WITH A STANDARD DEVIATION CALCULATIONS.
   ANCHOR BOLTS, DOWELS, REINFORCING STEEL AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
3. REINFORCING STEEL GRADE 40.
   ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706, AND WELDED PER AWS D1.4-98
4. FOR FOOTINGS USING TRENCH FOR FORMING WIDTH SHALL BE INCREASED 2" EA. SIDE
5. THE ABOVE FOUNDATION PLAN HAS 1/4" ADDED AT EACH MOD LINE AND 1/8" AT EACH SIDE WALL AND DOES NOT MATCH THE FLOOR PLAN. THIS IS REQUIRED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
6. MAX VENT LENGTH AT SIDE WALLS IS 8'-0"
   MAX VENT LENGTH AT END WALLS IS 4'-0"
   MIN DISTANCE FROM VENT TO EDGE OF MODULE IS 2'-0"
   MIN DISTANCE BETWEEN VENTS IS 2'-0"

FILE PATH: 2440-F2.02.DWG

REVISIONS					Electrical Engineer's Seal	Mechanical Engineer's Seal	PC Professional of Record Seal	Architects Seal	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
1							REGISTERED PROFESSIONAL ENGINEER G. LOW No. 3602 STRUCTURAL STATE OF CALIFORNIA		PC-04 104801 AC. — FLS — SS NA DATE 5/1/03
2									
3									
4									
5									

LICENSE EXPIRES 9-30-2003

MODTECH™ inc.
2830 BARRETT AVENUE PERRIS, CALIF. 92571
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PROJECT NUMBER:

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FOUNDATION PLAN AGC – 100, 125 PSF

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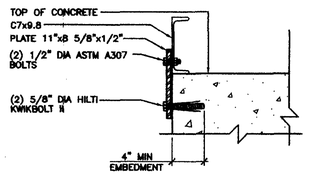
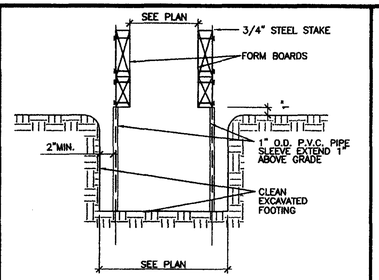
DATE:
MODTECH Index No.
F2.02

PC-04-104801 PROJECT NO.



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

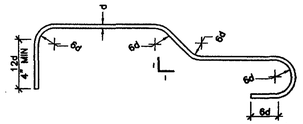
ALTERNATE FOUNDATION ANCHORAGE | 16



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

NOTE: USE STAKE PULLER TO REMOVE STEEL STAKES. DO NOT BANG TO LOOSEN.

FOOTING FORMS | 12

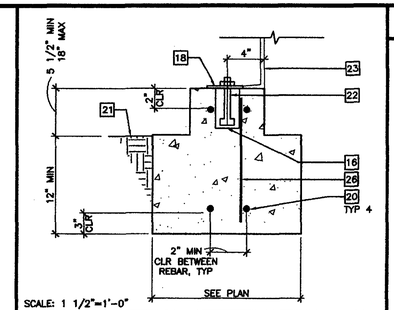


(FOR #7 BARS OR SMALLER)

SCALE: NTS

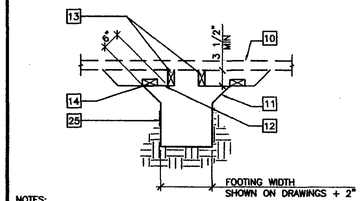
TYPICAL REINFORCING BENDING DETAIL | 9

| 5



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

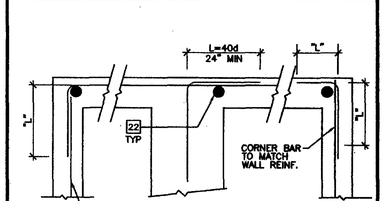
TYPICAL END WALL FOOTING | 1



NOTES:
1. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
2. FOOTING WIDTHS SHALL NOT BE MORE THAN 4" WIDER THAN SHOWN ON PLAN.
3. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.

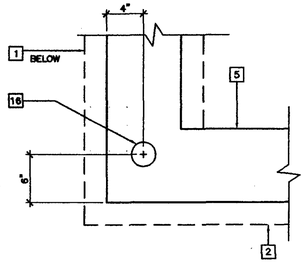
SCALE: NTS

FOOTING FORMS (ALTERNATE) | 13



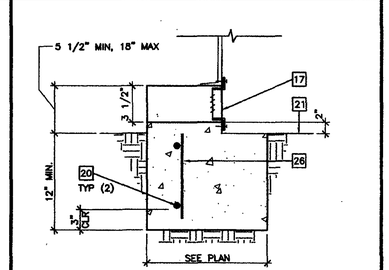
SCALE: NTS

TYPICAL REINFORCING AT CORNER AND INTERSECTIONS | 10



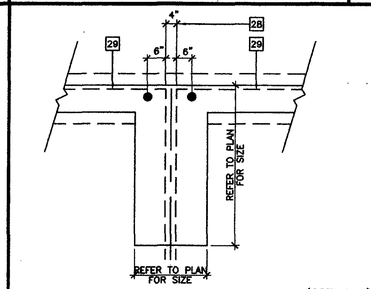
SCALE: 1 1/2"=1'-0"

ANCHOR BOLT AT CORNER | 6



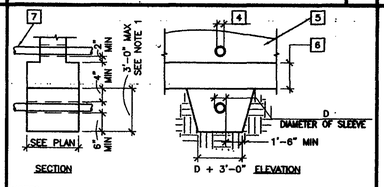
SCALE: 1 1/2"=1'-0"

TYPICAL SIDE WALL FOOTING | 2



SCALE: NTS (OPTIONAL)

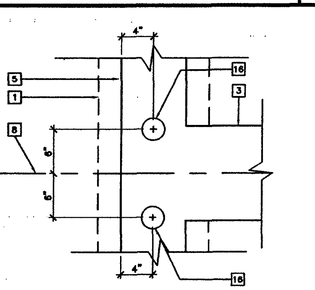
ANCHOR BOLT AT ADJACENT BUILDING | 14



NOTES:
1. FOOTINGS SHALL BE STEPPED SO THAT THIS DIMENSION DOES NOT EXCEED 3'-0".
2. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
3. TRENCH BELOW FOOTING SHALL BE FILLED WITH CONCRETE BEFORE POURING FOOTING. CONCRETE FILL SHALL BE THE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH.
4. WHERE ELECTRICAL, CONDUIT OCCURS, NO SLEEVE IS REQUIRED.

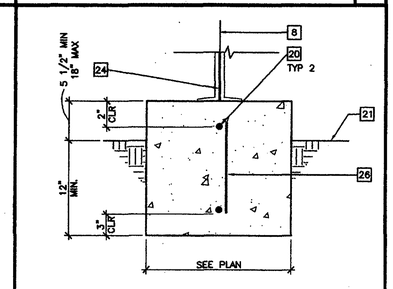
SCALE: NTS

PIPE SLEEVE THROUGH FOOTINGS TYPICAL | 11



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

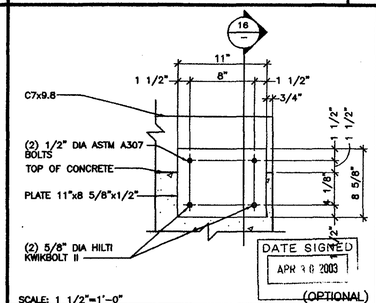
ANCHOR BOLT AT MODLINE | 7



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

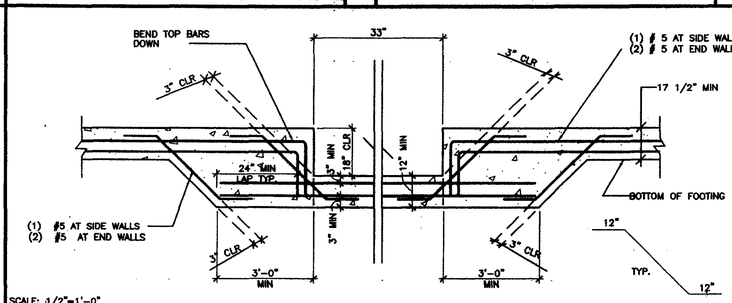
INTERIOR RETURN FOOTING | 3

PC
CBC 2001



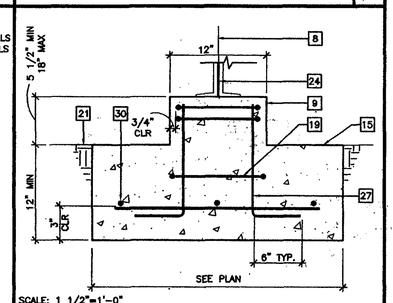
SCALE: 1 1/2"=1'-0" (OPTIONAL)

ALTERNATE FOUNDATION ANCHORAGE | 15



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

ACCESS VENT ELEVATION | 8



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

INTERIOR PAD FOOTING | 4

KEY NOTES

1. END WALL FOOTING – SEE FOOTING SCHEDULE
2. SIDE WALL FOOTING – SEE FOOTING SCHEDULE
3. MODLINE RETURN
4. SLEEVE DIAMETER 2" LARGER THAN PIPE DIAMETER
5. STEM WALL
6. FOOTING: FOR PIPES IN THIS AREA LOWER FOOTING SO PIPES PASS THROUGH STEM WALL
7. PIPE THROUGH STEM WALL
8. MODLINE
9. CONCRETE PEDESTAL – 12" MINIMUM AT INTERIOR PAD, 19" MINIMUM AT 4" SEPARATION (OPTIONAL)
10. STARTER WALL AFTER SET. CLEAN TO REMOVE LAITANCE AND SCUM
11. CUT BACK SPALL
12. CONTINUOUS CLEAN-OUT. STAKES NOT PERMITTED WITHIN FOOTING AREA
13. MINIMUM FORMWORK (UNLESS FULLY FORMED)
14. 2x PLANKING
15. CONCRETE INTERIOR PAD FOOTING – SEE FOUNDATION PLAN FOR SIZES
16. 3" DIAx6" DEEP CANOUT IN FOUNDATION (BY CONCRETE SUB-CONTRACTOR). AT TIME OF BUILDING INSTALLATION BACK FILL EACH CANNOUT WITH ANCHOR BOLT IN PLACE. USE HIGH STRENGTH EMBECO 636 NON-SHRINK, METALLIC AGGREGATE GROUT.
17. OPTION 1: 12 GA GALVANIZED EXPANDED DIAMOND MESH. IMBED 1 1/2" INTO WET CONCRETE AT 2 SIDES AND BOTTOM. OPTION 2: 3/16"x1 1/2"x1 1/2" GALVANIZED ANGLE FRAME WITH 12 GA GALVANIZED EXPANDED DIAMOND MESH WELDED TO END OF INTERIOR ANGLE LEG. ANCHOR WITH 3 FASTENERS AT BOTTOM INTO CONCRETE AND 3 FASTENERS AT TOP INTO FLOOR CHANNEL.
18. ANCHOR PLATE
19. #5 STEEL @ . 2 AT TOP AND 8" OC
20. #5 STEEL REINFORCING BARS CONTINUOUS
21. FINISH GRADE LINE
22. 3/4" ANCHOR BOLT A307 WITH 12" EMBEDMENT OR 3/4" DIA THREADED ROD A36 WITH 8" EMBEDMENT
23. FLOOR HEADER
24. FLOOR BEAM
25. NEAT CUT TRENCH
26. #3 VERTICAL AT 24" OC FOR BUILDINGS 60'x40' AND GREATER ONLY
27. (4) #5xL VERTS
28. 4" BUILDING SEPARATION – ADJACENT BUILDINGS – OPTIONAL
29. BUILDING LINE
30. (3) #5'S EACH WAY AT BOTTOM

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Mechanical Engineer's Seal

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REGISTERED PROFESSIONAL ENGINEER JAMES T. SWANSON No. 38602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

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MODTECH™ INC.
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PROJECT NUMBER:

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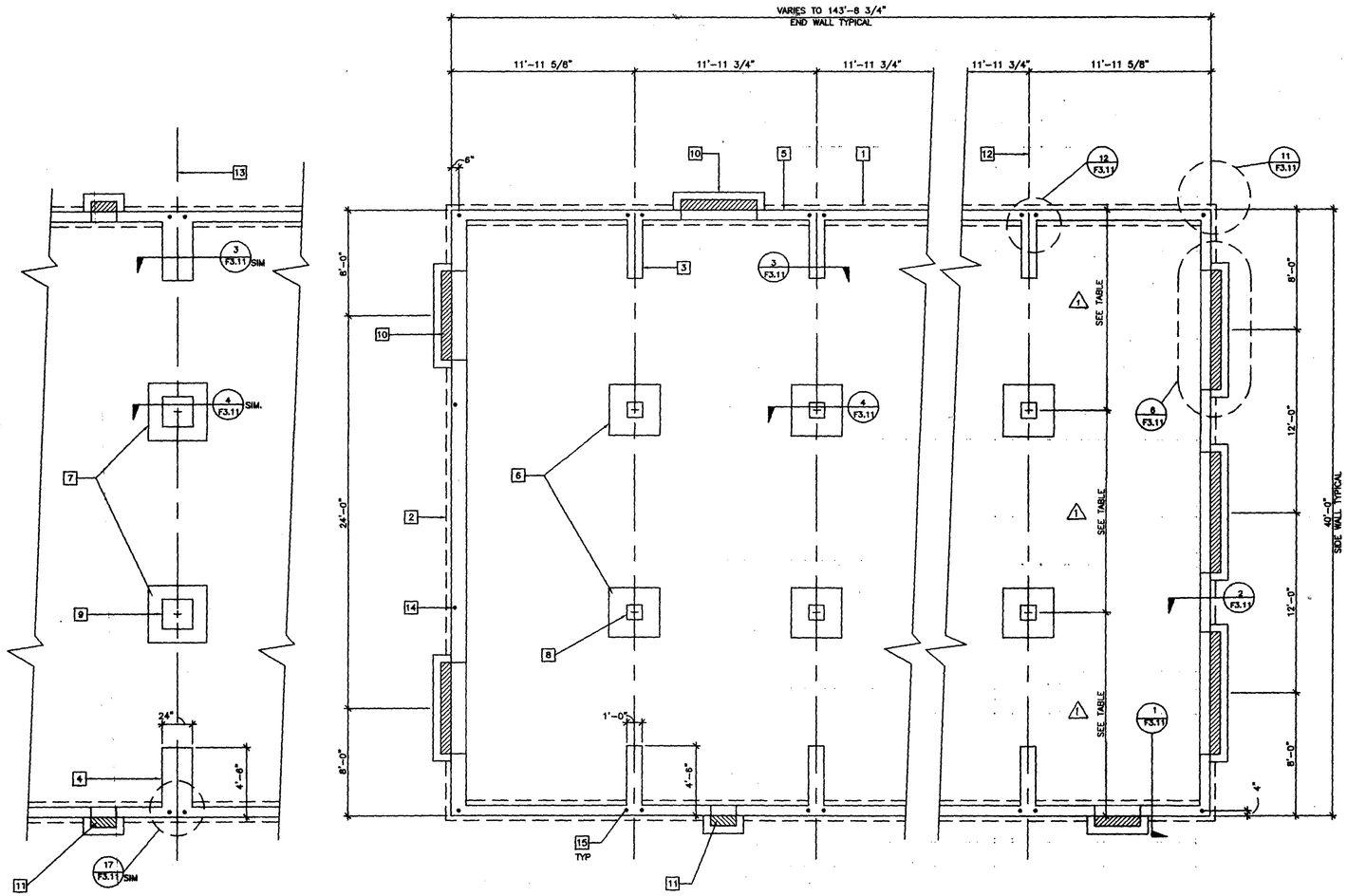
FOUNDATION DETAILS ABOVE GRADE CONCRETE

F2.11

PROJECT NO. PC-04-104801



FOOTINGS AT ADJACENT BUILDING
(OPTIONAL 4" SEPARATION)

FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	50 PSF WOOD FLR	50 PSF CONC FLR	50+20 PSF WOOD FLR	50+20 PSF CONC FLR	100 PSF	125 PSF
SIDEWALL	12"	12"	12"	12"	SEE SHEET F3.02	SEE SHEET F3.02
ENDWALL	17"	17"	19"	19"		
PAD	3'-4" 3-#5 EW	3'-8" 2-#5 EW	4'-0" 3-#5 EW	3'-10" 2-#5 EW		
PAD AT 4" SEPARATION	3'-9" 3-#5 EW	4'-2" 2-#5 EW	4'-3" 3-#5 EW	4'-1" 2-#5 EW		
NO. OF PADS AND SPACING	2 13'-4"	3 10'-0"	2 13'-4"	3 10'-0"		

VENTING SCHEDULE (WOOD FLOORS ONLY)

BUILDING	(SF) AREA	(SF) VENTING REQUIRED	SIDE WALL VENTING	SIDE WALL VENT AREA	END WALL VENTING	END WALL VENT AREA	TOTAL VENT SUPPLIED
24'x40'	960	6.4	(5) A	7.8	–	–	7.8
36'x40'	1440	9.6	(4) B	9.6	–	–	9.6
48'x40'	1920	12.8	(6) B	14.4	–	–	14.4
60'x40'	2400	16	(4) C (2) B	12.92 4.8	–	–	17.7
72'x40'	2880	19.2	(6) C	19.38	–	–	19.4
84'x40'	3360	22.4	(6) C	19.38	(2) A (1) D	3.65	23.03
96'x40'	3840	25.6	(6) C	19.38	(4) A (1) D	6.6	25.9
108'x40'	4320	28.8	(6) C	19.38	(6) A (1) D	9.5	28.9
120'x40'	4800	32	(6) C	19.38	(9) A	31.1	32.52
132'x40'	5280	35.2	(6) C	19.38	(11) A	16.1	35.5
144'x40'	5760	38.4	(6) C	19.38	(13) A (1) D	24.49	39.09

LEGEND	VENT	SIZE	AREA (SF)	GRATE SIZE
	A	3'-9"x5"	1.56	4'x8"
	B	5'-9"x5"	2.40	6'x8"
	C	7'-9"x5"	3.23	8'x8"
	D	1'-9"x5"	0.73	2'x8"
ACCESS (OPTIONAL)	E	2'-9"x18"	4.13	3'x2'

NOTE: DELETE ALL UNDER FLOOR VENTS FOR CONCRETE FLOOR OPTION.

KEY NOTES

1. END WALL FOOTING – SEE FOOTING SCHEDULE
2. SIDE WALL FOOTING – SEE FOOTING SCHEDULE
3. INTERIOR RETURN FOOTING – SEE FOOTING SCHEDULE
4. MODLINE RETURN AT 4" SEPARATION – OPTIONAL
5. STEM WALL – 8" TYPICAL UON
6. MODLINE PAD
7. MODLINE PAD AT 4" SEPARATION – OPTIONAL
8. 12" DIA OR SQUARE PEDESTAL (TYPICAL AT MODLINE)
9. 19" DIA OR SQUARE PEDESTAL (TYPICAL AT 4" SEPARATION)
10. TYPICAL VENT
11. ADDITIONAL END WALL VENTS AS REQUIRED (20" MAXIMUM LENGTH) OR INCREASE VENT HEIGHT AS REQUIRED AT SIDEWALLS
12. MODLINE
13. 4" BUILDING SEPARATION AT ADJACENT BUILDING – OPTIONAL
14. ANCHOR BOLT AT SIDEWALL – 13'-4" OC FOR BUILDING SIZE 60'x40' OR LARGER
15. ANCHOR BOLT LOCATION – (1) AT EACH CORNER OF BUILDING AND (2) AT EACH MODLINE LOCATION

NOTES

1. SOIL TYPE AND FOUNDATION
   A. BEARING: SOIL BEARING VALUE OF 1000 PSF USED FOR DESIGN.
   B. FOOTINGS: ALL FOOTINGS SHALL EXTEND 12 INCHES MINIMUM INTO NATIVE SOIL OR APPROVED ENGINEERED FILL.
2. CONCRETE
   ALL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM STRENGTH AT 28 DAYS: FOOTINGS: fc' = 3000 PSI (DESIGN BASED ON f'c = 2000 PSI).
   CONCRETE SHALL CONFORM TO TITLE 24 SECTION 1905A.2.3 METHOD A OR B. ALL CEMENT SHALL BE TYPE 1 OR TYPE 11 PER ASTM C-150.
   METHOD "A" NON-DESIGNED MIX PER TABLE 19A-A-8.
   MINIMUM 7.1 SACKS PER YARD. WATER CONTENT SHALL NOT EXCEED 6 GALLONS PER SACK. AGGREGATE SHALL BE 3/4" TO 1" MAXIMUM SIZE BUT NOT MORE THAN 3/4" OF MINIMUM CLEAR BAR SPACING.
   METHOD "B" PER SECTION 1905A.3.1.
   CONCRETE SUPPLIER SHALL PROVIDE CONCRETE MIX DESIGN AND A BREAK HISTORY OF 30 CONSECUTIVE BREAKS IDENTIFIED TO THAT MIX DESIGN. ALTERNATE – PROVIDE 15 CONSECUTIVE BREAKS IDENTIFIED TO THAT MIX DESIGN WITH A STANDARD DEVIATION CALCULATIONS.
   ANCHOR BOLTS, DOWELS, REINFORCING STEEL AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
3. REINFORCING STEEL GRADE 40.
   ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706, AND WELDED PER AWS D1.4-98
4. FOR FOOTINGS USING TRENCH FOR FORMING WIDTH SHALL BE INCREASED 2" EA. SIDE
5. THE ABOVE FOUNDATION PLAN HAS 1/4" ADDED AT EACH MOD LINE AND 1/8" AT EACH SIDE WALL AND DOES NOT MATCH THE FLOOR PLAN. THIS IS REQUIRED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
6. MAX VENT LENGTH AT SIDE WALLS IS 8'-0"
   MAX VENT LENGTH AT END WALLS IS 4'-0"
   MIN DISTANCE FROM VENT TO EDGE OF MODULE IS 2'-0"
   MIN DISTANCE BETWEEN VENTS IS 2'-0"
7. FOR WELDED ANCHORAGE DELETE CANNOUTS. PROVIDE 1-ANCHOR PLATE AT EACH CORNER OF BUILDING AND 2-ANCHOR PLATES AT EACH MODLINE.

24X40 = 8	72X40 = 24
36X40 = 12	84X40 = 28
48X40 = 16	96X40 = 32
60X40 = 20	108X40 = 36

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FOUNDATION PLAN

BELOW GRADE CONCRETE
SCALE: 1/4" = 1'-0"

FILE PATH: 2440-F3.01.DWG

REVISIONS			
1	MCA	ADDED PAD SPACING TABLE	11/06/03
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER
JAMES A. SIMPSON
No. 35607
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

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FOUNDATION PLAN BGC – 50, 50+20 PSF

F3.01

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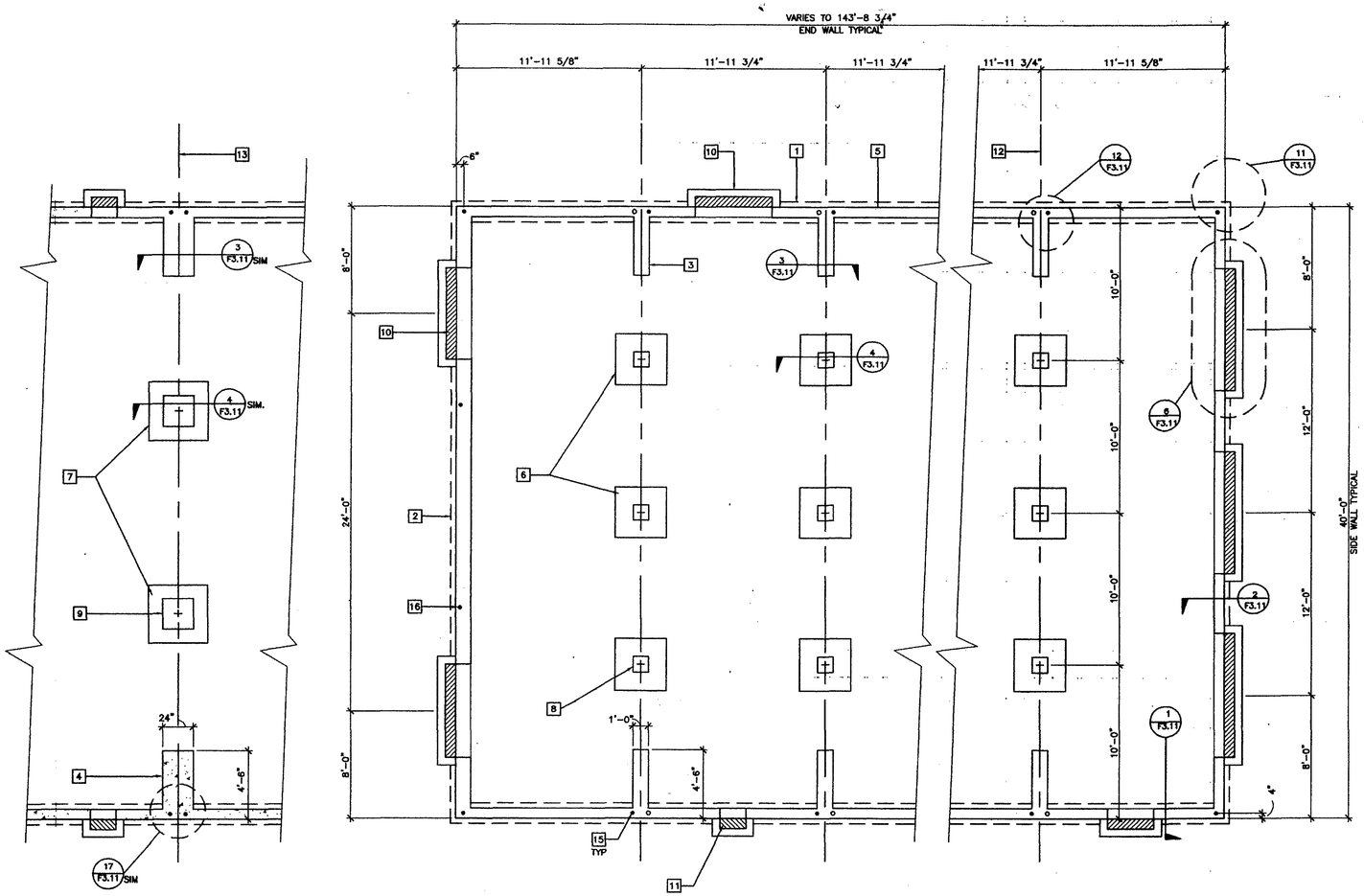

FOOTINGS AT ADJACENT BUILDING
(OPTIONAL 4" SEPARATION)

FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	50 PSF	50+20 PSF	100 PSF	125 PSF
SIDEWALL	SEE SHEET F3.01	SEE SHEET F3.01	12"/14"*	14"/16"*
ENDWALL			20"/21"*	21"/23"*
PAD			4'-0"/4'-4"* 3-#5 EW	4'-4"/4'-8"* 3-#5 EW
PAD AT 4" SEPARATION			4'-3"/4'-7"* 3-#5 EW	4'-7"/4'-11"* 3-#5 EW

* = VALUE FOR CONCRETE FLOOR

VENTING SCHEDULE (WOOD FLOORS ONLY)

BUILDING	(SF) AREA	(SF) VENTING REQUIRED	SIDE WALL VENTING	SIDE WALL VENT AREA	END WALL VENTING	END WALL VENT AREA	TOTAL VENT SUPPLIED
24'x40'	960	6.4	(5) A	7.8	–	–	7.8
36'x40'	1440	9.6	(4) B	9.6	–	–	9.6
48'x40'	1920	12.8	(6) B	14.4	–	–	14.4
60'x40'	2400	16	(4) C (2) B	12.92 4.8	–	–	17.7
72'x40'	2880	19.2	(6) C	19.38	–	–	19.4
84'x40'	3360	22.4	(6) C	19.38	(2) A (1) D	3.65	23.03
96'x40'	3840	25.6	(6) C	19.38	(4) A (1) D	6.6	25.9
108'x40'	4320	28.8	(6) C	19.38	(6) A (1) D	9.5	28.9
120'x40'	4800	32	(6) C	19.38	(9) A	31.1	32.52
132'x40'	5280	35.2	(6) C	19.38	(11) A	16.1	35.5
144'x40'	5760	38.4	(6) C	19.38	(13) A (1) D	24.49	39.09

LEGEND	VENT	SIZE	AREA (SF)	GRATE SIZE
	A	3'-9"x5"	1.56	4'x8"
	B	5'-9"x5"	2.40	6'x8"
	C	7'-9"x5"	3.23	8'x8"
	D	1'-9"x5"	0.73	2'x8"
ACCESS (OPTIONAL)	E	2'-9"x18"	4.13	3'x2'

NOTE: DELETE ALL UNDER FLOOR VENTS THE CONCRETE FLOOR OPTION.

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KEY NOTES

1. END WALL FOOTING – SEE FOOTING SCHEDULE
2. SIDE WALL FOOTING – SEE FOOTING SCHEDULE
3. INTERIOR RETURN FOOTING – SEE FOOTING SCHEDULE
4. MODLINE RETURN AT 4" SEPARATION – OPTIONAL
5. STEM WALL – 8" TYPICAL UON
6. MODLINE PAD
7. MODLINE PAD AT 4" SEPARATION – OPTIONAL
8. 12" DIA OR SQUARE PEDESTAL (TYPICAL AT MODLINE)
9. 24" DIA OR SQUARE PEDESTAL (TYPICAL AT 4" SEPARATION)
10. TYPICAL VENT
11. ADDITIONAL END WALL VENTS AS REQUIRED (20" MAXIMUM LENGTH) OR INCREASE VENT HEIGHT AS REQUIRED AT SIDEWALLS
12. MODLINE
13. 4" BUILDING SEPARATION AT ADJACENT BUILDING – OPTIONAL
14. NOT USED
15. ANCHOR BOLT LOCATION – (1) AT EACH CORNER OF BUILDING. (2) AT EACH MODLINE LOCATION.
16. ANCHOR BOLT AT SIDEWALL – 13'-4" OC FOR BUILDING SIZE 60'x40' OR LARGER

NOTES

1. SOIL TYPE AND FOUNDATION
   A. BEARING: SOIL BEARING VALUE OF 1000 PSF USED FOR DESIGN.
   B. FOOTINGS: ALL FOOTINGS SHALL EXTEND 12 INCHES MINIMUM INTO NATIVE SOIL OR APPROVED ENGINEERED FILL.
2. CONCRETE
   ALL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM STRENGTH AT 28 DAYS: FOOTINGS: f'_c = 3000 PSI (DESIGN BASED ON f'_c = 2000 PSI),
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   METHOD "A" NON-DESIGNED MIX PER TABLE 19A-A-B.
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   ANCHOR BOLTS, DOWELS, REINFORCING STEEL AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
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   ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706, AND WELDED PER AWS D1.4-98
4. FOR FOOTINGS USING TRENCH FOR FORMING WIDTH SHALL BE INCREASED 2" EA. SIDE
5. THE ABOVE FOUNDATION PLAN HAS 1/4" ADDED AT EACH MOD LINE AND 1/8" AT EACH SIDE WALL AND DOES NOT MATCH THE FLOOR PLAN. THIS IS REQUIRED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
6. MAX VENT LENGTH AT SIDE WALLS IS 8'-0"
   MAX VENT LENGTH AT END WALLS IS 4'-0"
   MIN DISTANCE FROM VENT TO EDGE OF MODULE IS 2'-0"
   MIN DISTANCE BETWEEN VENTS IS 2'-0"

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FOUNDATION PLAN

BELOW GRADE CONCRETE
SCALE: 1/4" = 1'-0"

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Mechanical Engineer's Seal

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REGISTERED PROFESSIONAL ENGINEER JAMES T. STAPLETON No. C36052 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

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FOUNDATION PLAN BGC – 100, 125 PSF

F3.02

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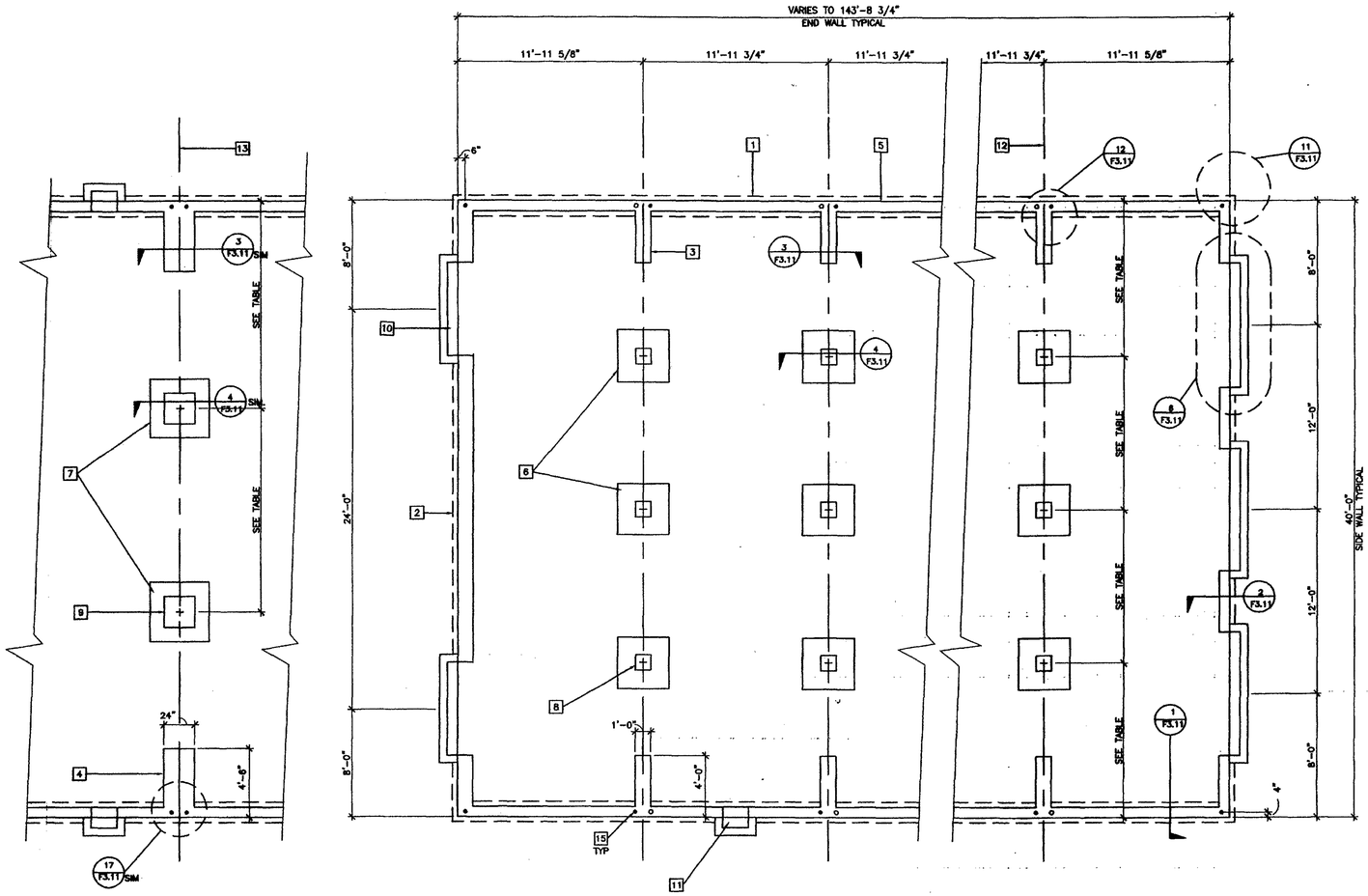


FOOTINGS AT ADJACENT BUILDING
(OPTIONAL 4" SEPARATION)

FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	50 PSF		50+20 PSF		100 PSF		125 PSF	
	STD. FLR	CONC FLR	STD. FLR	CONC FLR	STD. FLR	CONC FLR	STD. FLR	CONC FLR
SIDEWALL	12"	12"	12"	12"	14"	16"	16"	18"
ENDWALL	19" 2–#5	19" 2–#5	21" 2–#5	21" 2–#5	21" 2–#5	23" 2–#5	23" 2–#5	25" 2–#5
PAD	3'–4" 3–#5EW	3'–8" 2–#6EW	4'–0" 3–#5EW	3'–10" 2–#6EW	4'–0" 3–#5EW	4'–4" 3–#6EW	4'–4" 3–#5EW	4'–9" 4–#6EW
PAD AT 4" SEPARATION	4'–7" 3–#5EW	4'–11" 3–#6EW	4'–11" 3–#5EW	5'–3" 3–#6EW	4'–9" 3–#5EW	5'–2" 3–#6EW	5'–2" 3–#5EW	5'–8" 3–#6EW
NO. OF PADS AND SPACING	2 13'4"	3 10'–0"	2 13'4"	3 10'–0"	3 10'–0"	3 10'–0"	3 10'–0"	3 10'–0"

* = VALUE FOR CONCRETE FLOOR

VENTING SCHEDULE

BUILDING	(SF) AREA	(SF) VENTING REQUIRED	SIDE WALL VENTING	SIDE WALL VENT AREA	END WALL VENTING	END WALL VENT AREA	TOTAL VENT SUPPLIED
24'x40'	960	6.4	(5) A	7.8	–	–	7.8
36'x40'	1440	9.6	(4) B	9.6	–	–	9.6
48'x40'	1920	12.8	(6) B	14.4	–	–	14.4
60'x40'	2400	16	(4) C (2) B	12.92 4.8	–	–	17.7
72'x40'	2880	19.2	(6) C	19.38	–	–	19.4
84'x40'	3360	22.4	(6) C	19.38	(2) A (1) D	3.65	23.03
96'x40'	3840	25.6	(6) C	19.38	(4) A (1) D	6.6	25.9
108'x40'	4320	28.8	(6) C	19.38	(6) A (1) D	9.5	28.9
120'x40'	4800	32	(6) C	19.38	(9) A	31.1	32.52
132'x40'	5280	35.2	(6) C	19.38	(11) A	16.1	35.5
144'x40'	5760	38.4	(6) C	19.38	(13) A (1) D	24.49	39.09

LEGEND	VENT	SIZE	AREA (SF)	GRATE SIZE
	A	3'–9"x5"	1.56	4'x8"
	B	5'–9"x5"	2.40	6'x8"
	C	7'–9"x5"	3.23	8'x8"
	D	1'–9"x5"	0.73	2'x8"
ACCESS (OPTIONAL)	E	2'–9"x18"	4.13	3'x2'

NOTE: DELETE ALL UNDER FLOOR VENTS WHEN SINGLE STORY BUILDING OR BOTTOM FLOOR OF TWO STORY BUILDING UTILIZES THE CONCRETE FLOOR OPITON.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC ✓ FLS ✓ SS
DATE MAR 0 5 2003
REV 1

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 105455
AC — FLS — SS
DATE MAY 2 0 2004

KEY NOTES

1. END WALL FOOTING – SEE FOOTING SCHEDULE
2. SIDE WALL FOOTING – SEE FOOTING SCHEDULE
3. INTERIOR RETURN FOOTING – SEE FOOTING SCHEDULE
4. MODLINE RETURN AT 4" SEPARATION – OPTIONAL
5. STEM WALL – 8" TYPICAL UON
6. MODLINE PAD
7. MODLINE PAD AT 4" SEPARATION – OPTIONAL
8. 12" DIA OR SQUARE PEDESTAL (TYPICAL AT MODLINE)
9. 24" DIA OR SQUARE PEDESTAL (TYPICAL AT MODLINE)
10. TYPICAL VENT
11. ADDITIONAL END WALL VENTS AS REQUIRED (48" MAXIMUM LENGTH) OR INCREASE VENT HEIGHT AS REQUIRED AT SIDEWALLS
12. MODLINE
13. 4" BUILDING SEPARATION AT ADJACENT BUILDING – OPTIONAL
14. NOT USED
15. ANCHOR BOLT LOCATION – (1) AT EACH CORNER OF BUILDING. (2) AT EACH MODLINE LOCATION.
16. NOT USED

NOTES

1. SOIL TYPE AND FOUNDATION
   A. BEARING: SOIL BEARING VALUE OF 1000 PSF USED FOR DESIGN.
   B. FOOTINGS: ALL FOOTINGS SHALL EXTEND 12 INCHES MINIMUM INTO NATIVE SOIL OR APPROVED ENGINEERED FILL.
3. REINFORCING STEEL GRADE 40.
   ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A–615 WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A–706, AND WELDED PER AWS D1.4–98
4. FOR FOOTINGS USING TRENCH FOR FORMING WIDTH SHALL BE INCREASED 2" EA. SIDE
5. THE ABOVE FOUNDATION PLAN HAS 1/4" ADDED AT EACH MOD LINE AND 1/8" AT EACH SIDE WALL AND DOES NOT MATCH THE FLOOR PLAN. THIS IS REQUIRED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
6. MAX VENT LENGTH AT SIDE WALLS IS 8'–0"
   MAX VENT LENGTH AT END WALLS IS 4'–0"
   MIN DISTANCE FROM VENT TO EDGE OF MODULE IS 2'–0"
   MIN DISTANCE BETWEEN VENTS IS 2'–0"

DATE SIGNED
APR 3 0 2003

PC
CBC 2001

FOUNDATION PLAN

BELOW GRADE CONCRETE
SCALE: 1/4" = 1'–0"

REVISIONS	Electrical Engineer's Seal	Mechanical Engineer's Seal	PC Professional of Record Seal	Architects Seal
1			REGISTERED PROFESSIONAL ENGINEER STRUCTURAL STATE OF CALIFORNIA	
2			LICENSE EXPIRES 6-30-2004	
3				
4				
5				

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC–04
104801
AC FLS SS
DATE 5/1/03

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943–4014
FAX (909) 940–0427

PROJECT NUMBER:

© MODTECH, INC. 2002

FOR 10'–6" COLUMNS AND 4'–0" PARAPETS

FOUNDATION PLAN

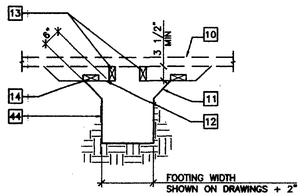
BGC – 100, 125 PSF

DRAWN BY:
DATE:
CHECKED BY:
DATE:
MODTECH Index No.

F3.03

PROJECT NO. PC–04–104801

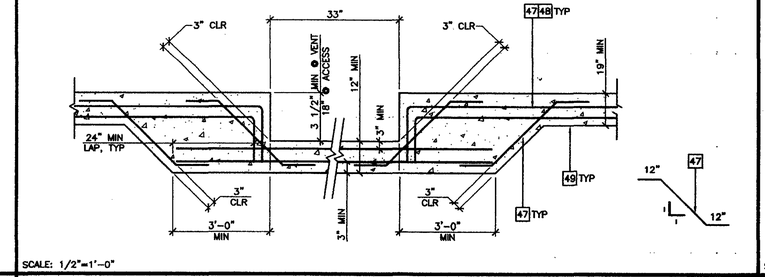
FILE PATH: 2440–F3.03.DWG



NOTES:
1. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
2. FOOTING WIDTHS SHALL NOT BE MORE THAN 4" WIDER THAN SHOWN ON PLAN.
3. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.

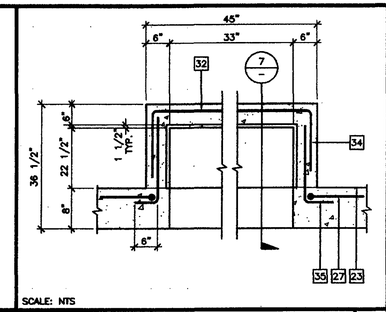
SCALE: NTS

FOOTING FORMS - PERMANENT | 16



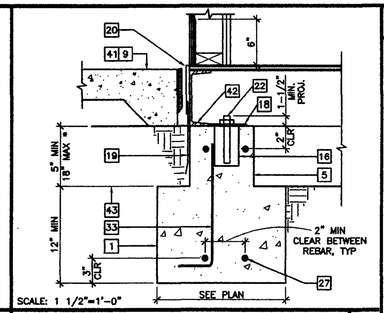
SCALE: 1/2"=1'-0"

ACCESS VENT ELEVATION | 9



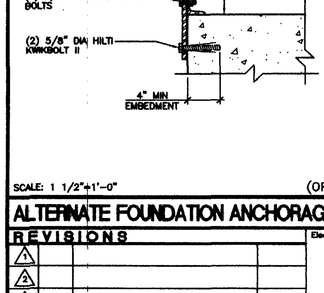
SCALE: NTS

ACCESS VENT | 5



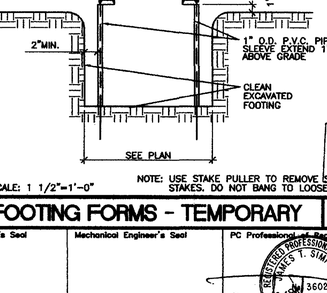
SCALE: 1 1/2"=1'-0"

TYPICAL ENDWALL FOOTING | 1



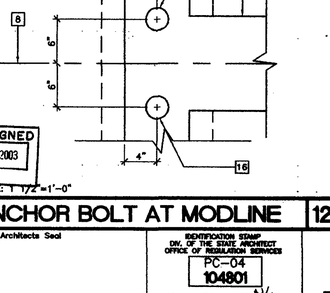
SCALE: NTS (OPTIONAL)

ANCHOR BOLT AT ADJACENT BLDG. | 17



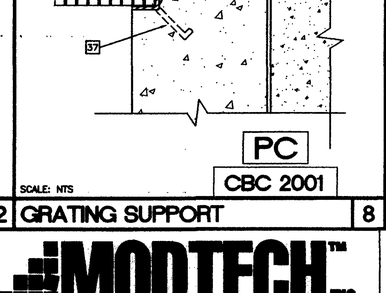
SCALE: 1 1/2"=1'-0"

THRESHOLD | 13



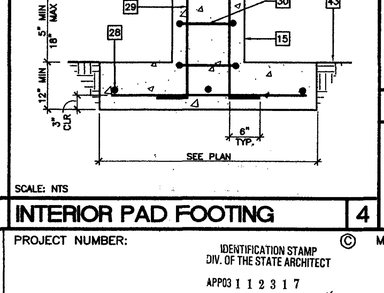
SCALE: 1 1/2"=1'-0" (ALTERNATE)

VENT AT ABOVE GRADE | 10



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

TYPICAL VENT | 6



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

TYPICAL SIDEWALL FOOTING | 2

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

ALTERNATE FOUNDATION ANCHORAGE | 18

NOTES:
1. FOOTINGS SHALL BE STEPPED SO THAT THIS DIMENSION DOES NOT EXCEED 3'-0".
2. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
3. TRENCH BELOW FOOTING SHALL BE FILLED WITH CONCRETE BEFORE POURING FOOTING. CONCRETE FILL SHALL BE THE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH.
4. WHERE ELECTRICAL, CONDUIT OCCURS, NO SLEEVE IS REQUIRED.

SCALE: NTS

PIPES PERPENDICULAR TO FOOTINGS | 14

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

ANCHOR BOLT AT CORNER | 11

SCALE: NTS

ACCESS/VENT SECTION | 7

SCALE: NTS

INTERIOR RETURN FOOTING | 3

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

ALTERNATE FOUNDATION ANCHORAGE | 19

NOTE: USE STAKE PULLER TO REMOVE STEEL STAKES. DO NOT BANG TO LOOSEN.

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

FOOTING FORMS - TEMPORARY | 15

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

ANCHOR BOLT AT MODLINE | 12

PC
CBC 2001

SCALE: NTS

GRATING SUPPORT | 8

SCALE: NTS

INTERIOR PAD FOOTING | 4

KEY NOTES

1. END WALL FOOTING – SEE FOOTING SCHEDULE
2. SIDE WALL FOOTING – SEE FOOTING SCHEDULE
3. MODLINE RETURN FOOTING – SEE FOOTING SCHEDULE
4. SLEEVE DIAMETER 2" LARGER THAN PIPE DIAMETER
5. STEM WALL
6. FOOTING. FOR PIPES IN THIS AREA LOWER FOOTING SO PIPES PASS THROUGH STEM WALL.
7. PIPE THROUGH STEM WALL
8. MODLINE (M)
9. CONCRETE FLATWORK (BY DISTRICT)
10. STARTER WALL AFTER SET. CLEAN TO REMOVE LAITANCE AND SCUM.
11. CUT BACK SPALL
12. CONTINUOUS CLEAN-OUT. STAKES NOT PERMITTED WITHIN FOOTING AREA.
13. MINIMUM FORMWORK (UNLESS FULLY FORMED)
14. 2x PLANKING
15. CONCRETE INTERIOR PAD FOOTING – SEE FOUNDATION PLAN FOR SIZES
16. 3" DIAx6" DEEP CANOUT IN FOUNDATION (BY CONCRETE SUB-CONTRACTOR). AT TIME OF BUILDING INSTALLATION BACK FILL EACH CANNOUT WITH ANCHOR BOLT IN PLACE. USE HIGH STRENGTH EMBECO 636 NON-SHRINK, METALLIC AGGREGATE GROUT.
17. OPTION 1: 12 GA GALVANIZED EXPANDED DIAMOND MESH. EMBED 1 1/2" INTO WET CONCRETE AT 2 SIDES AND BOTTOM. OPTION 2: 3/16"x1 1/2"x1 1/2" GALVANIZED ANGLE FRAME WITH 12 GA GALVANIZED EXPANDED DIAMOND MESH WELDED TO END OF INTERIOR ANGLE LEG. ANCHOR WITH 3 FASTENERS AT BOTTOM INTO CONCRETE AND 3 FASTENERS AT TOP INTO FLOOR CHANNEL.
18. ANCHOR PLATE – 3/S1.01
19. COUNTER FLASHING (BY OTHERS)
20. GALVANIZED FLASHING, BY MODTECH
21. NOT USED
22. 3/4" ANCHOR BOLT A307 WITH 5" EMBEDMENT OR 3/4" DIA THREADED ROD A36 WITH 5" EMBEDMENT
23. LINE OF BUILDING
24. DOOR
25. DOOR FRAME
26. ALUMINUM THRESHOLD
27. #5 TOP AND BOTTOM CONTINUOUS
28. 3–#5'S EACH WAY AT BOTTOM
29. 4–#5 X L VERTS
30. #4 SQUARE TIES AT 8" OC
31. #4 SQUARE TIES; 2 AT TOP OF FOOTING
32. #4 CONTINUOUS
33. #3 VERTICAL AT 24" OC FOR BUILDINGS 60'x40' AND GREATER ONLY
34. LAP 4"
35. STANDARD 90° HOOK TYPICAL
36. DRYWELL 3" DEEP WITH 3/8" PEA GRAVEL (ONLY AT ACCESS)
37. 3/8"ø x3" ANCHOR BOLT WELDED TO ANCHOR FRAME
38. 1 1/4"x1"x1/4" ANGLE FRAME
39. HORIZONTAL GRATE: GRATE OPENING TO BE MAXIMUM 1" EXCEPT 1/2" IN PATH OF TRAVEL. (UPGRADE CHANGE ORDER REQUIRED) SEE ARCHITECTURAL SITE PLAN.
40. CONCRETE AREAWAY WALL
41. FINISH GRADE
42. STEEL FLOOR FRAME (STR)
43. FINISH PAD ELEVATION – REFER TO GENERAL NOTES
44. NEAT CUT TRENCH
45. 4" BUILDING SEPARATION AT ADJACENT BUILDING – OPTIONAL
46. BUILDING LINE
47. 1–#5 AT SIDE WALLS, 2–#5 AT END WALLS
48. BEND TOP BARS DOWN
49. BOTTOM OF FOOTING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 105455
AC — FLS — SS 18
DATE MAY 20 2004
Rev 1

NOTES

FOR DETAILS 1 THROUGH 4:
* 1. 11" MIN/30" MAX ON BUIDLINGS OVER 2160 SQ. FT.

FILE PATH: 2440-F3.11.DWG

PROJECT NO. PC-04-104801

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER JAMES T. STAMPFLI
No. M.E. 3602
LICENSE EXPIRES: 30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC — FLS — SS
DATE 4/1/03

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC — FLS — SS
DATE MAR 05 2003

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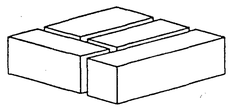
DRAWN BY:
DATE:
CHECKED BY:
DATE:

MODTECH Index No.

FOUNDATION DETAILS BELOW GRADE CONCRETE

F3.11



MSI

MODULAR STRUCTURES
INTERNATIONAL, Inc.

920 CITRUS AVE. RIVERSIDE, CA. 92507
PHONE (909) 788-3035 FAX (909) 788-1523

24'x40', ~~36'x40', & 48'x40'~~

RELOCATABLE CLASSROOM BUILDING

PC #100073

750 RELOCATABLE 24'x40' CLASSROOMS FOR GE CAPITAL MODULAR SPACE

NOTES:

1. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CHANGE ORDER APPROVED BY THE OFFICE OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
2. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE OFFICE 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.

APPLICABLE CODES – NEW CONSTRUCTION

NFPA 13– AUTOMATIC SPRINKLER SYSTEMS,	1994 EDITION
NFPA 14– STANDPIPES SYSTEMS,	1993 EDITION
NFPA 17A– WET CHEMICAL SYSTEMS,	1990 EDITION
NFPA 24– PRIVATE FIRE MAINS,	1992 EDITION
NFPA 253– CRITICAL RADIANT FLUX OF COVERING SYSTEMS,	1989 EDITION
NFPA 2001– CLEAN AGENT FIRE EXTINGUISHING SYSTEMS,	1994 EDITION
NFPA 72 – NATIONAL FIRE ALARM CODE	1993 EDITION

1994 UBC AND 1995 CALIFORNIA AMENDMENTS (95 CALIFORNIA BUILDING CODE – PART 2, TITLE 24, CCR)
1993 NEC AND 1995 CALIFORNIA AMENDMENTS (95 CALIFORNIA ELECTRICAL CODE W/ 1997 SUPPLEMENT – PART 3, TITLE 24, CCR)
1994 UMC AND 1995 CALIFORNIA AMENDMENTS (95 CALIFORNIA MECHANICAL CODE – PART 4, TITLE 24, CCR)
1994 UPC AND 1995 CALIFORNIA AMENDMENTS (95 CALIFORNIA PLUMBING CODE – PART 5, TITLE 24, CCR)
1994 UNIFORM FIRE CODE WITH STATE AMENDMENTS (CALIFORNIA FIRE CODE – PART 9, TITLE 24, CCR)
1994 BUILDING STANDARDS CODE (1995 STATE REFERENCED STANDARDS CODE – PART 12, TITLE 24, CCR)
TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS.

OMIT	PAGE	DESCRIPTION
	T	TITLE SHEET
	G-1	GENERAL SPECIFICATIONS
	G-3	ARCHITECTURAL STANDARD DETAILS
	G-4	PLUMBING GENERAL NOTE AND DETAILS
	A-1-24	24'x40' FLOOR PLAN
X	~~A-1-36~~	~~36'x40' FLOOR PLAN~~
X	~~A-1-48~~	~~48'x40' FLOOR PLAN~~
	A-2-24	24'x40' EXTERIOR ELEVATION
X	~~A-2-36~~	~~36'x40' EXTERIOR ELEVATION~~
X	~~A-2-48~~	~~48'x40' EXTERIOR ELEVATION~~
	A-3-24	24'x40' ROOF PLAN
X	~~A-3-36~~	~~36'x40' ROOF PLAN~~
X	~~A-3-48~~	~~48'x40' ROOF PLAN~~
	A-4-24	24'x40' INTERIOR ELEVATION
X	~~A-4-36~~	~~36'x40' INTERIOR ELEVATION~~
X	~~A-4-48~~	~~48'x40' INTERIOR ELEVATION~~
	A-6-24	24'x40' REFLECTED CEILING PLAN & DETAILS
X	~~A-6-36~~	~~36'x40' REFLECTED CEILING PLAN & DETAILS~~
X	~~A-6-48~~	~~48'x40' REFLECTED CEILING PLAN & DETAILS~~
	M-1-24	24'x40' MECHANICAL PLAN
X	~~M-1-36~~	~~36'x40' MECHANICAL PLAN~~
X	~~M-1-48~~	~~48'x40' MECHANICAL PLAN~~
	E-1-24	24'x40' ELECTRICAL PLAN
X	~~E-1-36~~	~~36'x40' ELECTRICAL PLAN~~
X	~~E-1-48~~	~~48'x40' ELECTRICAL PLAN~~

OMIT	PAGE	DESCRIPTION
	S-1	STRUCTURAL GENERAL NOTES
	S-1A	STRUCTURAL GENERAL NOTES
X	~~S-5~~	~~SINGLE SLOPE COLD ROLLED/BUILDING CROSS SECTIONS~~
	S-5A	DOUBLE SLOPE COLD ROLLED/TRUSS RIGID FRAME
	S-10	FLOOR FRAMING PLAN
X	~~S-10-1~~	~~OPTIONAL FLOOR FRAME & DETAILS~~
	S-11	FLOOR CONSTRUCTION DETAILS
	S-20	SINGLE OR DOUBLE ROOF PITCH–EXTERIOR WALLS
X	~~S-25~~	~~STEEL FRAMING DETAIL~~
X	~~S-26~~	~~STEEL FRAMING DETAIL~~
	S-30	GENERAL INT. AND EXT. WALL CONSTRUCTION DETAILS
	S-40	GENERAL ROOF CONSTRUCTION LAYOUT
X	~~S-50~~	~~ROOF CONSTRUCTION DETAILS FOR 'C' CHANNEL WITH 22 GA. METAL ROOFING~~
	S-52	ROOF CONSTRUCTION DETAILS FOR 'C' CHANNEL WITH PLYWOOD
X	~~S-60~~	~~ROOF CONSTRUCTION DETAILS FOR COLD ROLLED WITH METAL ROOFING~~
	S-62	ROOF CONSTRUCTION DETAILS FOR COLD ROLLED AND PLYWOOD ROOFING
	S-70	STEEL TRUSS FOR DOUBLE PITCH ROOF (20 PSF)
X	~~S-70A~~	~~STEEL TRUSS FOR DOUBLE PITCH ROOF (30 PSF)~~
	F-1	WOOD FOUNDATION (50 PSF FLOOR) W/ 20 PSF ROOF
X	~~F-2~~	~~WOOD FOUNDATION (50+20 PSF FLOOR) W/ 20 PSF ROOF~~
X	~~F-3~~	~~WOOD FOUNDATION (100 PSF FLOOR) W/ 20 PSF ROOF~~
X	~~F-4~~	~~WOOD FOUNDATION (125 PSF FLOOR) 20 PSF ROOF~~
X	~~F-5~~	~~WOOD FOUNDATION (50 PSF FLOOR) W/ 30 PSF ROOF~~
X	~~F-6~~	~~WOOD FOUNDATION (50+20 PSF FLOOR) W/ 30 PSF ROOF~~
X	~~F-7~~	~~WOOD FOUNDATION (100 PSF FLOOR) W/ 30 PSF ROOF~~
X	~~F-8~~	~~WOOD FOUNDATION (125 PSF FLOOR) W/ 30 PSF ROOF~~
X	~~F-9~~	~~CONCRETE FOUNDATION (50, 50+20, 100, & 125 PSF FLOOR) WITH 20 PSF ROOF~~
X	~~F-9A~~	~~CONCRETE FOUNDATION (50, 50+20, 100, & 125 PSF FLOOR) WITH 30 PSF ROOF~~
X	~~F-10~~	~~CONCRETE FOUNDATION DETAILS~~
	R-1	RAMP FRAMING PLAN AND DETAILS

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 102419
AC FLS SS
DATE FEB 7 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 102417
AC FLS SS
DATE ~~SEP 27 2000~~

BUILDING DATA

OCCUPANCY	E-1 AND E-2
TYPE OF CONSTRUCTION	V – N
WIND LOAD	70 MPH. EXP. 'C'
FLOOR LIVE LOAD	50 PSF. ~~50 PSF + 20 PSF PARTITIONS, 100 PSF FLOOR L.L. & 125 PSF FLOOR L.L.~~
ROOF LIVE LOAD	20 PSF (REDUCIBLE FOR AREA), OPTIONAL 30 PSF
BUILDING AREA	960, 1440 & 1920 SQ. FT.
STRUCTURAL DESIGN	RIGID FRAME

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ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP
REGISTERED PROFESSIONAL ENGINEER JAMES T. SAWYER No. 3005 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2000

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4 100116 AC
DATE JAN 15 1998

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4 100073 AC
DATE JAN 15 1998

STATE AGENCY APPROVAL

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

PC-100073

PROJECT
24'X40', ~~36'X40', & 48'X40'~~
MODULAR CLASSROOM BUILDINGS

TITLE
TITLE SHEET AND BUILDING DATA

JOB #

DATE 12-8-97

DRAWN BY R.D.L.

SCALE NONE

APPROVED

REVISIONS

SHEET NO. T

GENERAL SPECIFICATIONS

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 E ADDENDUM OR CHANGE ORDER, SIGNED BY THE ARCHITECT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. 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 3504.1, CALIFORNIA BUILDING 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 CBC 3504.1, SECTION 2-4.9.1

K. GROUNDING OF BUILDING COMPONENTS
1. THE OWNER, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS, SHALL RESPONSIBLE FOR PROVIDING THE NECESSARY GROUNDING OF THE BUILDING ELECTRICAL SYSTEM PER CEC 250-81, 250-83 AND 250-84.
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 8-1, 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 IDENTIFICATION 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 USTED 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

VARIABLE SPECIFICATIONS

1. FOUNDATION
[ ] 50PSF PT WOOD PADS
[ ] 125PSF PT WOOD PADS
[ ] CONCRETE _____ PSF

2. FOUNDATION VENTS
PROVIDE ONE SQUARE FOOT OF NET FREE FLOW AREA PER 150 SQUARE FEET OF FOUNDATION PERIMETER.
[ ] SCREEN VENTS
[ ] EXPANDED METAL
[ ] OTHER _____

3. RAMP, LANDING AND STAIRS
[ ] PORTABLE STEEL MODULES
[ ] CONCRETE, PROVIDE STEEL HANDRAILS
[ ] OTHER _____

4. ROOF OVERHANGS
[ ] 5'-0" AT FRONT, 2'-0" AT REAR
[ ] 5'-0" AT BOTH FRONT AND REAR
[ ] OTHER _____

5. DROP SOFFIT
[ ] MATCH RAFTER SIZE
[ ] OPEN SOFFIT
[ ] CLOSED SOFFIT
[ ] OTHER _____

6. EXTERIOR PLYWOOD SIDING (STRUCTURAL)
EXTERIOR SIDING MUST MEET MINIMUM STRUCTURAL REQUIREMENTS SPECIFIED IN GENERAL SPECIFICATIONS PARAGRAPH 2.
[ ] 5/8" 4x8 DURATEMP APA RATED SIDING GROOVED AT 8" O.C., OR EQUIV.
[ ] 5/8" 4x8 WOO APA 303-OL GROOVED AT 8" O.C.
[ ] 5/8" 4x8 T1-11 APA 303 GROOVED AT 8" O.C.
[ ] OTHER _____

7. PLYWOOD SKIRTING (NON-STRUCTURAL)
[ ] 5/8" NON-GROOVED DURATEMP APA RATED SIDING, OR EQUIV.
[ ] 5/8" WOO APA 303-OL GROOVED AT 8" O.C.
[ ] OTHER _____

8. FASCIA AND CLOSE-UP TRIM (NON-STRUCTURAL)
[ ] 1/2" THICK TEXTURED HARDBOARD
[ ] OTHER _____

9. DOOR, WINDOW AND CORNER TRIM (NON-STRUCTURAL)
[ ] 1x4 RESAWN DRY SPRUCE
[ ] OTHER _____

10. GUTTERS AND DOWN SPOUTS
PROVIDE ONE SET PER BUILDING MODULE
[ ] 26 GA GALVANIZED STEEL
[ ] HEAVY DUTY DOWN-SPOUTS 26 GA.
[ ] OTHER _____

11. PAINT
EXPOSED STEEL PAINTED WITH PRIMER FOR WEATHER PROTECTION THEN WITH ALKID FINISH OVER SHOP PRIMER USING ENAMEL DUNN EDWARDS OR EQUAL. EXPOSED WOOD PAINTED WITH 1-FLAT LATEX PRIMER, 1-FLAT LATEX FINISH COAT.

12. ROOFING
[ ] 22 GA GALVANIZED STEEL STANDING SEAM, FIRE RATED PER UBC STANDARD 32-7 CLASS-A.
[ ] 26 GA GALVANIZED STEEL STANDING SEAM, FIRE RATED PER UBC STANDARD 32-7 CLASS-A.
[ ] 30 GA GALVANIZED STEEL STANDING SEAM, FIRE RATED PER UBC STANDARD 32-7 CLASS-A.
[ ] BASE SHEET FINISHED GRADE 25-30# ASPHALT COATED
[ ] EDGE FLASHING 26 GA. GALVANIZED
[ ] OTHER _____

13. INSULATION
SEE GENERAL NOTES FOR STANDARDS AND FIRE RATING.
[ ] R11 AT FLOOR AND WALLS, R19 AT ROOF
[ ] OTHER _____
[ ] SOUND INSULATION (SEE FLOOR PLAN FOR LOCATION)

14. EXTERIOR DOORS
[ ] STEEL 3068, STEEL CRAFTED OR EQUIV.; HOLLOW METAL
[ ] STEEL 3070 1-3/4" THK, 18GA FACE SHEETS, SOUND DEADENED,
[ ] STEEL 3070 1-3/4" THK, 18GA FACE SHEETS, SOUND DEADENED,
[ ] OTHER _____

15. INTERIOR DOORS
[ ] SC WOOD 3068 STANDARD CAL. WOOD OR EQUIV.
[ ] SC WOOD 3070 1-3/4" THK, EMBOSSED HARDBOARD FACE SHEETS. PREFINISHED
[ ] OTHER _____

16. FRAMES
STEEL KNOCKDOWN 3068 STANDARD OR 3070 (OPTIONAL), 16GA, 3 ANCHORS PER JAMB
[ ] PREFINISHED DARK BRONZE
[ ] PAINTED SELECTED COLOR
[ ] OTHER _____

17. LOCKSETS AND LATCHSETS
FINISH 626 BRUSHED CHROME
[ ] D70PD CLASSROOM SCHLAGE OR EQUIV. (LEVER HANDLE)
[ ] D40S PRIVACY SCHLAGE OR EQUIV. (LEVER HANDLE)
[ ] D10S PASSAGE SCHLAGE OR EQUIV. (LEVER HANDLE)
[ ] A70PD CLASSROOM SCHLAGE OR EQUIV. (KNOB HANDLE)
[ ] PANIC HARDWARE, VON DUPRIN 99L OR EQUIV. WITH RIM CYLINDER
[ ] OTHER _____

18. BUTTS
SOLID BRASS OR BRONZE, 3 PER DOOR, FINISH 260 BRUSHED CHROME
[ ] HAGAR BB1191 NRP 4-1/2"x4-1/2"
[ ] OTHER _____

19. CLOSURES
ADJUST TO 8.5# OPERATING PRESSURE FOR EXTERIOR, OR 5.0# FOR INTERIOR, FINISH BRUSHED ALUMINUM.
[ ] DORMA P7601
[ ] NORTON 1601 OR EQUIV.
[ ] OTHER _____

20. THRESHOLDS
MAXIMUM 1/2" HEIGHT
[ ] PEMKO 271A (BRUSHED ALUMINUM)
[ ] OTHER _____

21. BOTTOM SWEEPS
[ ] PEMKO 216AV (BRUSHED ALUMINUM WITH VINYL SEAL)
[ ] OTHER _____

22. WEATHER-STRIPPING
[ ] FOAM FILLED VINYL, FRICTION FIT INTO PREPARED FRAME
[ ] PEMKO 279PAV (BRUSHED ALUMINUM WITH VINYL SEAL)
[ ] OTHER _____

23. STOPS
[ ] FLOOR MOUNTED HAGAR 267F OR EQUAL 3" HEIGHT (EXTERIOR), OR EQUIV. NOT ALLOWED IN ANY PATH OF TRAVEL
[ ] WALL MOUNTED HAGAR 236W OR EQUAL BUMPER (INTERIOR)
[ ] FLOOR MOUNTED QUALITY 431 OR EQUAL DOME (INTERIOR)
[ ] OTHER _____

24. OPTIONAL EXTRA ITEMS AND HARDWARE
[ ] VISION LIGHTS SIZE: _____
GLASS: _____
[ ] LOUVERS SIZE: _____
[ ] OTHER _____

25. 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 FLOOR PLAN FOR SIZES)

FRAMES:
[ ] CLEAR ANODIZED
[ ] OTHER _____

GLAZING:
[ ] DUAL, 3/16" GRAY TINT
[ ] DUAL, 1/4" GRAYLITE 14
[ ] DUAL, OBSCURED
[ ] SINGLE, 3/16" GRAY TINT
[ ] SINGLE, 1/4" GRAYLITE 14
[ ] SINGLE, OBSCURED
[ ] OTHER _____

26. 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.
[ ] FRP: FIBERGLASS REINFORCED PLASTIC PANELS, 4'-0"x8'-0", WITH COLOR MATCHED PVC MOLDINGS OVER 1/2 GYPSUM
[ ] OTHER _____

27. CEILING GRID
SUSPENDED SYSTEM, PERFORMANCE RATED ASTM C635 HEAVY DUTY
[ ] DOMN DX EXPOSED SYSTEM, STEEL, PREFINISHED WHITE
DX-26 MAIN RUNNER HEAVY DUTY DX-424 CROSS RUNNER HEAVY DUTY
[ ] ARMSTRONG PRELUDE EXPOSED SYSTEM, STEEL, PREFINISHED WHITE
7XXX-WH MAIN RUNNER HEAVY DUTY 7XXX-WH CROSS RUNNER HEAVY DUTY
[ ] CHICAGO METALLIC 200 SERIES EXPOSED SYSTEM, STEEL, PREFINISHED WHITE
200-01 MAIN RUNNER HEAVY DUTY 1214-01 CROSS RUNNER HEAVY DUTY

28. 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.
[ ] VINYL FACED GYPSUM BOARD, 1/2" THICK USG STIPPLE PATTERN, CLASS 1
[ ] OTHER _____

29. CARPET
DIRECT GLUE-DOWN, PERFORMANCE RATED PER STATE OF CALIFORNIA SPECIFICATION 7220-21L-01. (GROUP I, TYPE A, CLASS 24) 4500 MIN. DENSITY. THE CARPET IS TO HAVE A MINIMUM CRITICAL FLUX OF .25 WATT/CM^2.
[ ] 26oz.
[ ] 28oz.
[ ] OTHER _____
[ ] FACTORY INSTALLATION: 2-1/2"W ALUMINUM THRESHOLD AT MODULE JOINTS, AS REQUIRED
[ ] ON SITE INSTALLATION: BUTT SEAMS

30. 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 MAXIMUM 450.
[ ] ARMSTRONG CLASSIC CORLON, SANDOVAL PATTERN, 6'-0" WIDE, OR EQUIV.
[ ] OTHER _____

[ ] FACTORY INSTALLATION: 2-1/2"W ALUMINUM THRESHOLD AT MODULE JOINTS, AS REQUIRED
[ ] ON SITE INSTALLATION: BUTT SEAMS

31. 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 MAXIMUM 450.
[ ] ARMSTRONG STANDARD EXCELON, OR EQUIV.
[ ] OTHER _____

[ ] FACTORY INSTALLATION: 2-1/2"W ALUMINUM THRESHOLD AT MODULE JOINTS, AS REQUIRED
[ ] ON SITE INSTALLATION: BUTT SEAMS

32. TOP SET BASE
[ ] BURKE MOLDED RUBBER 1/8" THICK, 4" HEIGHT, COVE STYLE #502-P, OR EQUIV.
[ ] OTHER _____

33. CHALKBOARDS / MARKER BOARDS
TWO 4'-0"x8'-0" BOARDS MOUNTED SIDE BY SIDE, U.N.O.
[ ] MARKER BOARD, PLASTIC WHITE LAMINATE
[ ] MARKER BOARD, SMOOTH PORCELAIN WRITING SURFACE
[ ] CHALKBOARD, MATTE BAKED ENAMEL WRITING SURFACE
[ ] CHALKBOARD, MATTE PORCELAIN WRITING SURFACE
[ ] OTHER _____

34. FIRE EXTINGUISHER
PRESSURIZED, WITH CHARGE INDICATOR DIAL, MOUNTING HANDLE AT +48" MAX. A.F.F., NEAR EXTERIOR DOOR
[ ] UL RATED 2A10BC
[ ] OTHER _____

35. HEAT PUMPS AND THERMOSTATS
THERMOSTAT MOUNTED AT +54" (SEALED) SIDE APPROACH, +48" (NOT SEALED) A.F.F. NEAR RETURN AIR GRILL. WHITE ROGERS 1F92 WITH WH UNITS AND 1F90 WITH WAG UNITS, OR EQUIV.
[ ] BARD WH42-ILA08 (LOCKOUT)
[ ] BARD WH48-A10
[ ] BARD WH48-LA10 (LOCKOUT)
[ ] BARD WAG40A-A54C (NG / ELECTRIC)
[ ] BARD WAG40A-A54C (LPG / ELECTRIC)
[ ] OTHER _____

HVAC UNIT TO CONFORM TO CURRENT SMACNA STANDARDS, ARI 240-77, AND HVAC UL LISTING. PROVIDE POSITIVE MEANS OF DISCONNECT PER SEC. 309 CMC. (BARD, INTERTHERM, MARVAIR, OR EQUIV.)

36. DUCTWORK
WITHIN 3'-0" OF THE HVAC UNIT, PROVIDE SHEET METAL DUCTING
[ ] NONMETALLIC OPTION: IN SEMI-CONCEALED ACCESSIBLE LOCATIONS BEYOND 3'-0" FROM THE HVAC UNIT, PROVIDE FLEXIBLE ROUND 2-PLY POLYESTER DUCT WITH COILED WIRE REINFORCING AND 1-1/2" FIBERGLASS INSULATION AND POLYETHYLENE JACKET, OR RIGID 1" FIBERGLASS BOARD WITH FOIL VAPOR BARRIER FORMED INTO RECTANGULAR DUCTS. FLAME SPREAD (0-25) SMOKE (0-50)
[ ] SHEET METAL OPTION: PROVIDE GALVANIZED SHEET METAL DUCTWORK WITH 1" FIBERGLASS INSULATION WITH VAPOR BARRIER.
[ ] OTHER _____

ALL DUCTWORK TO CONFORM TO CURRENT SMACNA MANUAL, CMC, NFPA 90-A AND B, AND HAVE SMACNA CLASS-1 RATING.

37. REGISTER & DIFFUSERS
MIN. (2) 4-WAY. CARNES, TITUS, COOLEY, COLEMAN KRUEGER OR EQUIV.
- COMMERCIAL GRADE

38. ELECTRICAL PANELS
SEE ELECTRICAL PANEL SCHEDULE FOR SIZE.
[ ] SINGLE PHASE POWER
[ ] THREE PHASE POWER

39. ELECTRICAL OUTLETS
LOCATE PER FLOOR PLANS AT +15"MIN - 18" MAX. A.F.F. U.O.N.
[ ] DUPLEX OUTLETS, LEWTON 5014 OR EQUAL
[ ] OTHER _____

40. EXTERIOR LIGHTING
[ ] INCANDESCENT, WEATHER-PROOF VANDAL-RESISTANT HOUSING, WITH 60WATT LAMP, FAIL-SAFE IBO-102 OR EQUAL (K3636)
[ ] FLUORESCENT, WEATHER-PROOF VANDAL-RESISTANT HOUSING, WITH TWO 7WATT LAMPS, FAIL-SAFE FBP-142 OR EQUAL
[ ] OTHER _____

41. INTERIOR LIGHTING
PLASTIC LENS FIRE RATING CONFORMING TO CURRENT CBC SECTION 5208. ACRYLIC PRISMATIC, BUILT-IN REFLECTION HOUSING, SWITCHES PNS 501 OR EQUIV.
[ ] LAY-IN 1-LAMP, FLUORESCENT, 2'-0" x 4'-0", WITH 34 WATT ENERGY SAVER LAMPS, LITHONIA 2GT-340 OR EQUAL
[ ] LAY-IN 2-LAMP, FLUORESCENT, 2'-0" x 4'-0", WITH 34 WATT ENERGY SAVER LAMPS, LITHONIA 2GT-240 OR EQUAL
[ ] LAY-IN 4-LAMP, FLUORESCENT, 2'-0" x 4'-0", WITH 34 WATT ENERGY SAVER LAMPS, LITHONIA 2GT-440 OR EQUAL
[ ] 50 FT. CANDLES AT 30" AFF.
[ ] OTHER _____

42. CLOCK
[ ] 12" DIAMETER, ACCUTREC 2012BE OR EQUAL
[ ] REC. EAGLE OR EQUAL
[ ] OTHER _____

43. FIRE ALARM SYSTEM
[ ] PROVIDE 1/2" EMT CONDUIT AND COVERED METAL JUNCTION BOXES, LOCATE PER ELECTRICAL FLOOR PLAN, FOR FUTURE WIRE AND EQUIPMENT BY OTHERS.
[ ] OTHER _____

44. COMMUNICATIONS SYSTEM
[ ] SPECIFY: _____

45. CASEWORK - WOOD WORK INSTITUTE OF AMERICA (WIC) CUSTOM GRADE
[ ] WOOD
SOLID OAK FACE FRAMES, FLAT PANEL OAK DOORS AND DRAWER FRONTS, CLEAR LACQUER FINISH. MELAMINE/PARTICLE BOARD BOXES, WITH LAMINATE COUNTER TOPS, LAYOUT PER FLOOR PLAN AND CASEWORK ELEVATIONS. TOPS FORMED W/4" SPLASH, UNO.
[ ] LAMINATE
FULL OVERLAY STYLE DOORS AND DRAWER FRONTS, MELAMINE/PARTICLE BOARD BOXES, WITH LAMINATE COUNTER TOPS, LAYOUT PER FLOOR PLAN AND CASEWORK ELEVATIONS
[ ] OTHER _____

46. PLUMBING
[ ] SEE ATTACHED PLUMBING AND RESTROOM ACCESSORIES SPECIFICATIONS. SEE SHEET P1

47. RESTROOM ACCESSORIES
[ ] SEE ATTACHED PLUMBING AND RESTROOM ACCESSORIES SPECIFICATIONS. SEE SHEET P1

48. ROOF CONSTRUCTION (CLASS A ROOFING)
[ ] SINGLE PITCH
[ ] DOUBLE PITCH
[ ] 22 GA. METAL
[ ] PLYWOOD ROOF WITH
[ ] 26 GA. METAL
[ ] 30 GA. METAL
[ ] BUILT UP ROOF

49. OPTIONS
[ ] METAL STUDS FRAMING
[ ] RESTROOMS
[ ] CONCRETE FOUNDATION
[ ] WOOD FOUNDATION

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP01 [illegible]
AC [illegible] FLS [illegible] SS
DATE SEP 2 7 2001

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

PC-100073

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC N/A FLS CLASS
DATE MAR 0 5 2003

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 [illegible]
AC [illegible] FLS [illegible] SS
DATE FEB 7 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4 100118
AC [illegible] FLS [illegible] SS
DATE JAN 1 5 2003

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100073
AC [illegible] FLS [illegible] SS
DATE JAN 1 5 1999

STATE AGENCY APPROVAL
ARCHITECT APPROVAL
STRUCTURAL ENGINEER'S STAMP
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON NO. 3602 CIVIL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-
STATE AGENCY APPROVAL
STATE AGENCY APPROVAL
STATE AGENCY APPROVAL

PROJECT
24'X40', ~~36'X40', & 48'X40'~~
MODULAR CLASSROOM BUILDING

TITLE
GENERAL SPECIFICATIONS AND ARCHITECTURAL GENERAL NOTES

JOB #

DATE 1-9-98

DRAWN BY R.D.L.

SCALE NONE

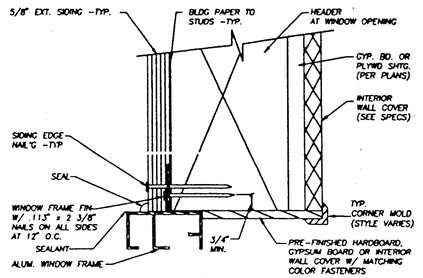
APPROVED

REVISIONS

SHEET NO.
G-1

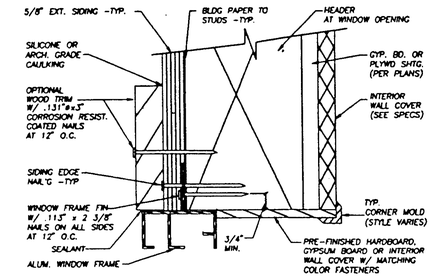
12

8



(SIM. AT SILL AND JAMB)

5 EXTERIOR WINDOW HEAD - TYP. SCALE 6"=1'-0"



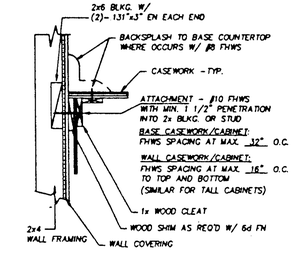
(SIM. AT SILL AND JAMB)

1 EXTERIOR WINDOW HEAD WITH TRIM - TYP. SCALE 6"=1'-0"

13

9

6



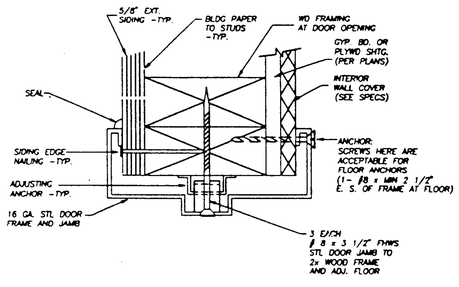
(BASE CASEWORK SHOWN, WALL AND TALL CASEWORK SIMILAR)

2 CASEWORK TO WALL ATTACHMENT

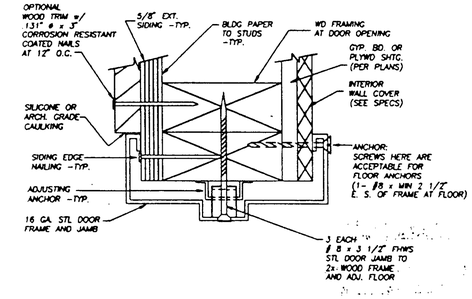
14

10

7



EXTERIOR DOOR JAMB METAL FRAME SCALE 6" = 1'-0"



3 EXTERIOR DOOR JAMB METAL FRAME WITH TRIM SCALE 6" = 1'-0"

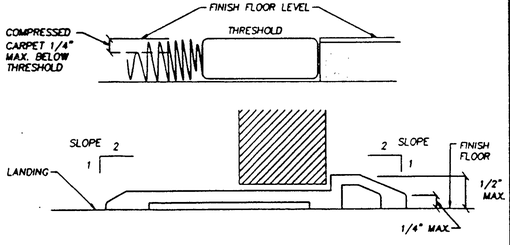
THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION, NOT AS AN ILLUSTRTION OF A SPECIFIC THRESHOLD MODEL OR TYPE.

THRESHOLD - TYPICAL
"ALL THRESHOLDS TO CONFORM TO DIMENSIONS IN FIGURE 33-5B

DOOR HARDWARE: EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY OTHER SPECIAL KNOWLEDGE OR EFFORT. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE-EFFORT BY LEVER HARDWARE (NOT TO EXCEED 8.5 LBS. FOR EXTERIOR DOORS, 5 LBS. FOR INTERIOR DOORS), PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.

CALIFORNIA BUILDING CODE, SECTION 1004.3, 1004.4

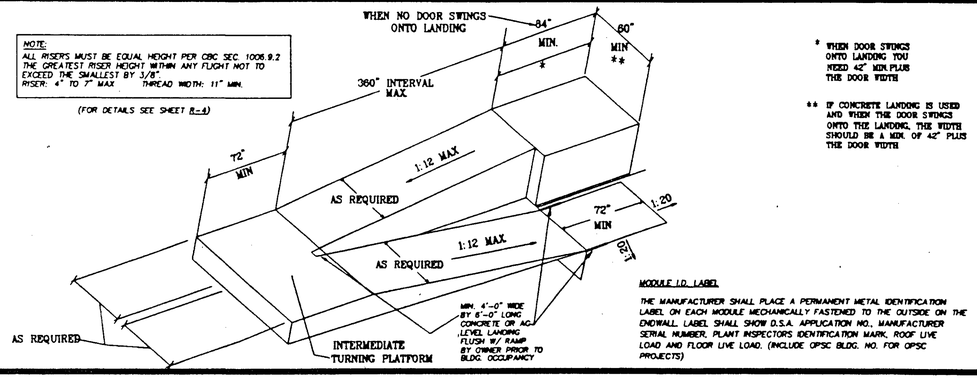
FOR HARDWARE: SEE SPECIFICATION SHEET.



33-5B - THRESHOLDS

FIGURE NO. 33-5

11



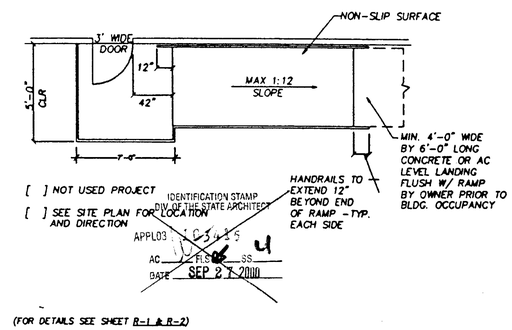
* WHEN DOOR SWINGS ONTO LANDING YOU NEED 42" MIN. PLUS THE DOOR WIDTH

** IF CONCRETE LANDING IS USED AND WHEN THE DOOR SWINGS ONTO THE LANDING, THE WIDTH SHOULD BE A MIN. OF 42" PLUS THE DOOR WIDTH

MODULE I.D. LABEL

THE MANUFACTURER SHALL PLACE A PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE MECHANICALLY FASTENED TO THE OUTSIDE ON THE ENDWALL. LABEL SHALL SHOW D.S.A. APPLICATION NO., MANUFACTURER SERIAL NUMBER, PLANT INSPECTORS IDENTIFICATION MARK, ROOF LIVE LOAD AND FLOOR LIVE LOAD. (INCLUDE OPSC BLDG. NO. FOR OPSC PROJECTS)

RAMP WITH INTERMEDIATE SWITCH-BACK PLATFORM



(FOR DETAILS SEE SHEET R-1 & R-2)

4 PORTABLE STEEL RAMP AND LANDING - TYPE "A"

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ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES R. SIMPSON No. 3902 CIVIL STRUCTURAL STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-2000

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
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DATE MAR 0 5 2001

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC 4 FLS RS 60
DATE FEB 7 2001

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4 100118
AC 4 FLS 60
DATE JAN 1 5 1998

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4 100073
AC 4 FLS 60
DATE JAN 1 5 1998

STATE AGENCY APPROVAL

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PC-

PROJECT
24'X40', 36'X40', & 48'X40'
MODULAR CLASSROOM BUILDING

TITLE
ARCHITECTURAL STANDARD DETAILS

JOB #

DATE 12-8-97

DRAWN BY R.D.L.

SCALE NONE

APPROVED

REVISIONS

SHEET NO.
G-3

GENERAL PLUMBING SPECIFICATIONS

A. PLUMBING EQUIPMENT, FIXTURE AND ACCESSORIES:
FURNISH AND INSTALL ALL PIPING, VALVES, VENTS, STOPS, AND TRAPS REQUIRED TO CONNECT ALL FIXTURES AND EQUIPMENT. PROVIDE ALL ELECTRICAL CONNECTIONS AS REQUIRED.

B. 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 GRADE SPECIFIED.

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

IN EACH OF THE SECTIONS FOLLOWING, ONE OF THE ITEMS MUST BE CHECKED AS BEING APPLICABLE TO THIS BUILDING. ALL ITEMS NOTED AS STRUCTURAL MUST MEET THE MINIMUM STRUCTURAL REQUIREMENTS SET FORTH IN THE STRUCTURAL PAGES AND NOTES.

VARIABLE PLUMBING SPECIFICATIONS

1. WATER CLOSETS
   [] HANDICAP 18"H TANK/BOWL, 3 GPF, KOHLER K-3527-ET OR EQUAL (HANDICAP FOR ADULT, HIGH SCHOOL AND MIDDLE SCHOOL)
   [] STANDARD 14"H TANK/BOWL, 3 GPF, KOHLER K-3520-ET OR EQUAL (HANDICAP FOR ELEMENTARY SCHOOL AND GENERAL USE)
   [] WALL HUNG FV/BOWL, 3 GPF, KOHLER K-4430-ET WITH ZURN Z-6000 FLUSH VALVE OR EQUALS
   [] OTHER _____

2. URINALS
   [] WALL HUNG, 1.0 GPF, KOHLER K-5016 WITH ZURN Z-6003 FLUSH VALVE OR EQUALS
   [] OTHER _____

3. LAVATORIES
   [] WALL HUNG, 14x12, GERBER 12-354 WITH DELTA FAUCET 523 .5gpm OR EQUALS, HC ACCESSIBLE
   [] WALL HUNG, 19x17, GERBER 12-314 WITH DELTA FAUCET 523 .5gpm OR EQUALS, HC ACCESSIBLE
   [] WALL HUNG, 20x18, KOHLER K-2032 WITH DELTA FAUCET 523 .5gpm OR EQUALS, HC ACCESSIBLE
   [] OTHER _____

4. SINKS
   [] CLASSROOM 25x17, 18GA. STAINLESS STEEL, JUST CRA-1725-A-GR, WITH KOHLER K-7895 LEVER HANDLE COLD ONLY GOOSENECK FAUCET, AND HAWS 5056 LEVER HANDLE DRINKING BUBBLER OR EQUALS
   [] CLASSROOM 31x19, 18GA. STAINLESS STEEL, JUST CRA-1931-A-GR, WITH KOHLER K-7894 LEVER HANDLE HOT & COLD GOOSENECK FAUCET & HAWS 5056 LEVER HANDLE DRINKING BUBBLER OR EQUALS
   [] KITCHEN DOUBLE BOWL 33x21, MINIMUM 20GA. STAINLESS STEEL, JUST DL-2133-B-GR WITH KOHLER K-15171-CP SINGLE HANDLE SWING SPOUT HOT AND COLD FAUCET OR EQUALS
   [] OTHER _____

5. GARBAGE DISPOSERS
   [] BATCH-FEED, 3/4HP, IN-SINK-ERATOR #17 OR EQUAL
   [] CONTINUOUS FEED, 1/2HP, IN-SINK-ERATOR BADGER-V OR EQUAL

6. DRINKING FOUNTAIN
   [] WALL HUNG, STAINLESS STEEL, HANDICAP ACCESSIBLE, PUSH BOTTON OPERATION, HAWS 1118 OR EQUAL
   [] OTHER _____

7. WATER HEATERS
   [] 2.5 GALLON, 120V RHEEM 81VP2S OR EQUAL
   [] 6 GALLON, 120V RHEEM 81VP6S OR EQUAL
   [] 10 GALLON, 120V UNDER COUNTER, RHEEM 81VP10S OR EQUAL
   [] 20 GALLON, 120V UNDER COUNTER, RHEEM 81VP20S OR EQUAL
   [] OTHER _____

8. GRAB BARS
   [] ONE EACH 36" AND 42" LONG PER HANDICAP WC, 1-1/2" DIAMETER, STAINLESS STEEL CONCEALED VANDAL RESISTANT MOUNTING, BOBRICK B-6206 OR EQUAL
   [] OTHER _____

9. TOILET PAPER DISPENSERS
   [] ROLL TYPE, STAINLESS STEEL, CONCEALED VANDAL RESISTANT MOUNTING AND SPINDLE, BOBRICK B-685.60 OR EQUAL
   [] FOLDED TISSUE TYPE, STAINLESS STEEL, CONCEALED VANDAL RESISTANT MOUNTING AND LOCK, BOBRICK B-272 OR EQUAL
   [] OTHER _____

10. PAPER TOWEL DISPENSERS
   [] FOLDED TISSUE TYPE, STAINLESS STEEL, CONCEALED VANDAL RESISTANT MOUNTING AND LOCK, BOBRICK B-262 OR EQUAL
   [] OTHER _____

11. SOAP DISPENSERS
   [] LIQUID TYPE, STAINLESS STEEL, CONCEALED VANDAL RESISTANT MOUNTING AND LOCK, BOBRICK B-2111 OR EQUAL
   [] OTHER _____

12. MIRRORS
   [] 18x30, 1/4" PLATE GLASS, STAINLESS STEEL CHANNEL FRAME, CONCEALED VANDAL RESISTANT MOUNTING, BOBRICK B-165 OR EQUAL
   [] OTHER _____

13. RESTROOM PARTITIONS
   FLOOR MOUNTED AND OVERHEAD BRACED, LAYOUT PER FLOOR PLAN
   [] STEEL WITH BAKED ENAMEL FINISH, KNICKERBOCKER OR EQUAL
   [] OTHER _____

14. EXHAUST/VENTILATOR FAN
   SWITCH CONTROLLED AT MAX. 48" A.F.F., HANDICAP ACCESSIBLE WITH WEATHERPROOF SCREENED WALL CAP
   [] CEILING/WALL FAN - 50cfm, 2.0sones, BROAN 688 OR EQUAL
   [] WALL VENTILATOR - 180cfm, 5.0sones, BROAN 509 OR EQUAL
   [] OTHER _____

15. OPTIONAL EXTRA ITEMS AND HARDWARE
   [] SPECIFY: _____

PLUMBING NOTES

1. ALL VENTS TO ROOF AND VENT RISER CONNECTIONS TO BE OFFSET ABOVE CEILING FROM WALLS IN ORDER TO PREVENT PENETRATION THROUGH TOP PLATES.
2. ALL WASTE DROPS IN WALLS TO BE OFFSET PRIOR TO WALL BOTTOM PLATES.
3. FOR ALLOWABLE CUTTING/NOTCHING/BORED HOLES IN 2x WALL STUDS AND JOISTS, SEE TYPICAL DETAILS ON STRUCTURAL SHEETS.
4. TOILET CURB ON FLOORS: FOR TOILET ROOMS WITH MORE THAN TWO (2) FIXTURES IN RELOCATABLE BUILDINGS, PROVIDE A CONTINUOUS VINYL FLOORING, ARMSTRONG "RHINO 90402" OR EQUAL WITH FULLY SEALED JOINTS. VINYL FLOORING TO EXTEND A MIN. OF SIX (6) INCHES UP THE STUD WALL FROM THE FINISH FLOOR LEVEL. (REF: 2317 CBC: AND IR 25-5 D.S.A.)
5. ALL INTERIOR COLD AND HOT WATER IS OVERHEAD PIPING EXCEPT AT INSIDE WALLS UNLESS OTHERWISE NOTED.
6. ALL DRAIN AND SEWER FITTINGS BELOW FLOOR LINE SITE INSTALLED.
7. SEWER/WATER STUB OUTS: SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON PLANS AND CONNECTIONS SHOULD BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHOULD BE COORDINATED WITH BUILDING MANUFACTURER AND SITE CONTRACTOR/OWNER.

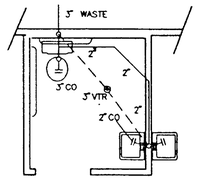
DIMENSION

	A
TOILET CENTERLINE FROM WALL	18"
TOILET SEAT HEIGHT	17"-19"
GRAB BAR HEIGHT (SIDE)	33"-36"+
TOILET PAPER IN FRONT OF TOILET	12" MAX.
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX.
DISPENSER OR MIRROR HEIGHT	40" MAX.
LAVATORY/SINK TOP HEIGHT	34" MAX.
LAVATORY/SINK KNEE CLEARANCE	29" MIN.
URINAL LIP HEIGHT	17" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.
RAMP/STAIR HANDRAIL HEIGHT	34"-38"

A = ADULT DIMENSIONS (AGE 12 AND OVER)
+ = 33" IF TANK DOES NOT INTERFERE. 36" IF TANK TOILET DOES NOT ALLOW LOWER GRAB BAR HEIGHT.

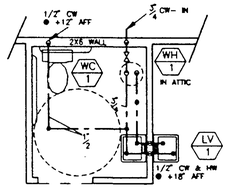
PLUMBING LEGEND

COLD WATER
HOT WATER
WASTE
VENT
CLEAN OUT
VENT THRU ROOF
SHUT OFF VALVE
PIPE UP
PIPE DOWN



WASTE & VENT PLUMBING

FIXTURE UNITS - 8

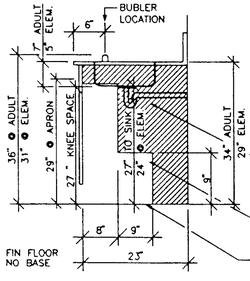


SUPPLY PLUMBING

DEVELOPED LENGTH - 40'
ASSUMED WATER PRESSURE 46 - 60 PSI
FIXTURE UNITS - 9

ACCESSIBLE SINK COUNTERS

	COUNTER HEIGHT	KNEE SPACE	SINK DEPTH MAX.	DRINKING FOUNTAIN/ BUBBLER HEIGHT	BUBBLER
ADULT	34"	27"	7"	36"	2"
ELEMENTARY	30"	24"	6"	NONE	NONE
ELEMENTARY	29"	24"	5"	31"	2"
KINDER	24"	-	ANY	26"	2"



ACCESSIBLE SINK CAB. SECT.

FAUCET CONTROLS & OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVER OPERATED, PUSH TYPE & ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE . SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

HOT WATER & DRAIN PIPES ACCESSIBLE UNDER SINK SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES.

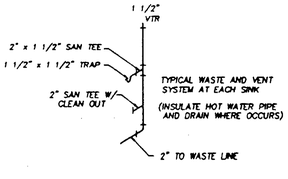
AREA NOT HATCHED BELOW COUNTER MUST BE ACCESSIBLE AND CLEAR WITHOUT BASEBOARD/TOEBOARD

CONTINUE FLOORING TO BACK OF COMPARTMENT

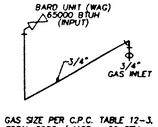
FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	WASTE	VENT	C.W.	H.W.
WC 1	VITRIOUS CHINA FLOOR MOUNTED SIPHON JET TANK TYPE WATER CLOSET WITH ELONG. OPEN FRONT SEAT. FIXTURE SHALL BE LOW VOLUME FLUSH TYPE. INSTALL FIXTURE IN COMPLIANCE WITH STATE REQUIREMENTS FOR THE PHYSICALLY HANDICAPPED.	3"	2"	1/2"	-
LV 1	20" x 17" VITRIOUS CHINA WALL MOUNTED LAVATORY. 1/2" ANGLE STOPS WITH SUPPLY AND WALL ESCUTCHEON. CHROME PLATE P-TRAP. INSTALL IN ACCORDANCE WITH STATE REQUIREMENTS FOR THE PHYSICALLY HANDICAPED	2"	1-1/2"	1/2"	1/2"
WH 1	6 GALLON ELECTRIC WATER HEATER WITH P & T THRU FLOOR TO OUTSIDE OF STRUCTURE. WATER HEATER SHALL BE ENERGY COMMISION APPROVED.	-	-	3/4"	3/4"

NOTE: SUPPORT AT 4'-0" O.C. AND AT ALL TURNS WITH 3/4" METAL PLUMBING STRAPS



PLUMBING FOR OPTIONAL SINK
N.T.S.

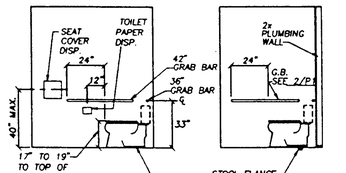


GAS SIZE PER C.P.C. TABLE 12-3.
TOTAL 6500 / 1100 = 59 CFM
MAX. DISTANCE OF TRAVEL = 24 FT.

NOTES:
1. GAS LINE SHALL BE GALV. STEEL (BLACK PIPE) SUPPORTED AT 4'-0" O.C. AND AT ALL TURNS WITH EWT BRACKET AND 2-#8 SCREWS WITH MIN. 1 1/2" PENETRATION TO BLKG. OR STUD
2. GAS SHUT-OFF SHALL BE WITHIN 3 FT. OF BARD UNITS PER C.P.C., PART 5, SECTION 1213.

GAS HEAT PUMP SYSTEM
N.T.S.

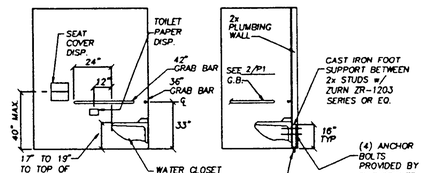
THE DRAWINGS BELOW ONLY ILLUSTRATE THE SPECIFIC REQUIREMENTS FOR INSTALLING THE FIXTURES AND THE ACCESSORIES SHOWN. SEE PROJECT SPECIFICATIONS FOR THE ACCESSORIES AND FIXTURES THAT APPLY TO THIS PROJECT.



WATER CLOSET (FLOOR MTD)

1A ACCESS/ATTACH DETAIL

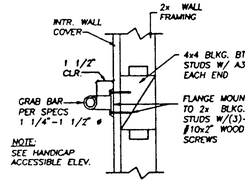
[ ] SEE VARIABLE ITEM NO. 1
[ ] NOT USED THIS PROJECT



WATER CLOSET (WALL MTD)

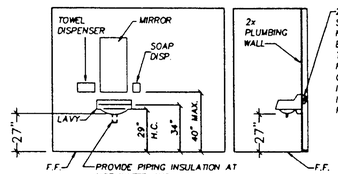
1B ACCESS/ATTACH DETAIL

[ ] SEE VARIABLE ITEM NO. 1
[ ] NOT USED THIS PROJECT



2 ATTACHMENT DETAIL

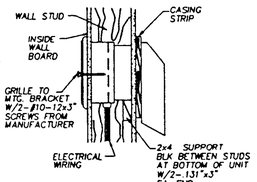
[ ] USED THIS PROJECT W/ 1A & 1B



LAVATORY - WALL HUNG

3 ACCESS/ATTACH DETAIL

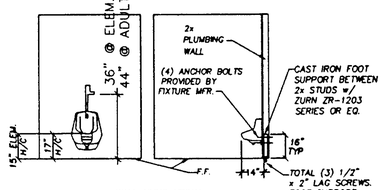
[ ] SEE VARIABLE ITEM NO. 3
[ ] NOT USED THIS PROJECT



WALL OPENING SIZE: PER MFR SPECS.

4 WALL EXHAUST FAN ATTACHMENT

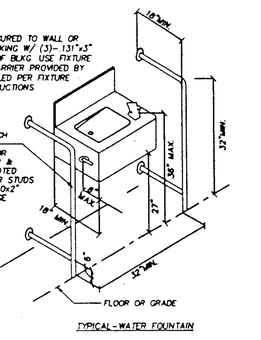
[ ] SEE VARIABLE ITEM NO. 15
[ ] NOT USED THIS PROJECT



WALL HUNG URINAL

5 ACCESS/ATTACH DETAIL

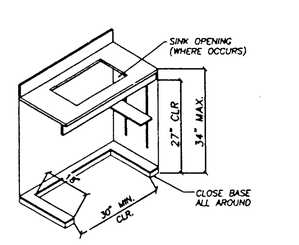
[ ] SEE VARIABLE ITEM NO. 2
[ ] NOT USED THIS PROJECT



TYPICAL - WATER FOUNTAIN

6 ACCESS WATER FOUNTAIN

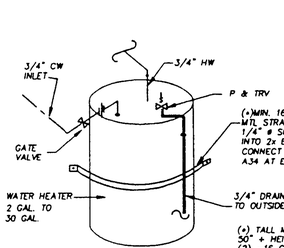
[ ] SEE VARIABLE ITEM NO. 6
[ ] NOT USED THIS PROJECT



NOTES:
- DOORS NOT SHOWN FOR CLARITY DOORS ARE TO BE PROVIDED
- MODIFY BASE AS SHOWN FOR WHEELCHAIR ACCESS
- PROVIDE ADJUSTABLE METAL STANDARDS AND REMOVABLE SHELF (INTERMEDIATE AND BOTTOM)
- 30" CLR. W/ CABINETS IN A 90° POSITION

7 ACCESSIBLE CABINET

[ ] SEE VARIABLE ITEM NO. 4
[ ] NOT USED THIS PROJECT



LOW BOY / WIDGET TYPE SHOWN

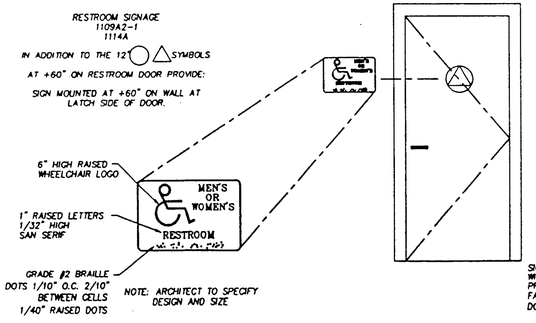
8 WATER HEATER

[ ] SEE VARIABLE ITEM NO. 7
[ ] NOT USED THIS PROJECT

RESTROOM SIGNAGE
1109A2-1
1114A

IN ADDITION TO THE 12" ○ △ SYMBOLS AT +60" ON RESTROOM DOOR PROVIDE:

SIGN MOUNTED AT +60" ON WALL AT LATCH SIDE OF DOOR.



NOTE:
CLASSROOM SIGNAGE IS FURNISHED AND INSTALLED BY OTHERS ONSITE.

SIGN MATERIAL TO BE 1/8" THK ES PLASTIC WITH 1/32" RAISED BORDER, GRAPHICS AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ VANICAL RESISTANT FASTENERS. COMPLY WITH ARTICLE 4.30 & A4.30 OF THE ADAAS. DOTS SHALL BE RAISED A MINIMUM OF 1/4" ABOVE THE BACK ROUND.

9 SIGNAGE

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PC-100073

ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP
LICENSE EXPIRES 6-30-2000

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03: 3
AC FLS 6
DATE FEB 7 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS 6
DATE SEP 27 2000

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4 100118
AC FLS 68
DATE JAN 15 1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
100073
AC FLS 68
DATE JAN 15 1998

PROJECT
24'X40', 36'X40', & 48'X40'
MODULAR CLASSROOM BUILDING

TITLE
PLUMBING GENERAL NOTES & DETAILS

JOB #

DATE 1-9-98

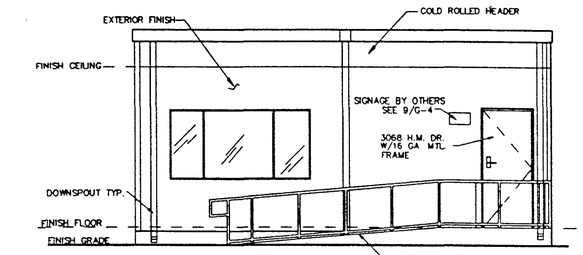
DRAWN BY R.D.L.

SCALE NONE

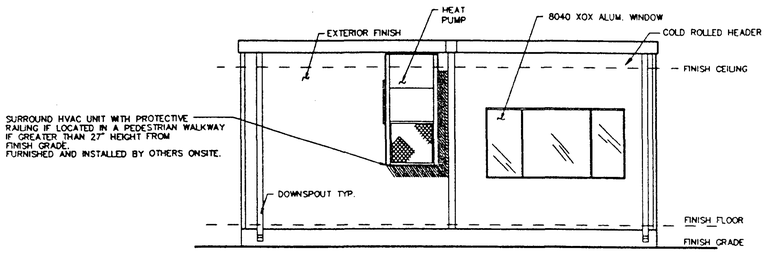
APPROVED

REVISIONS:

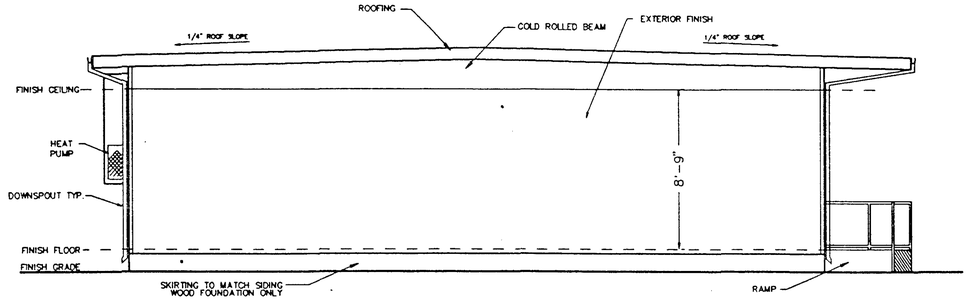
SHEET NO.
G-4



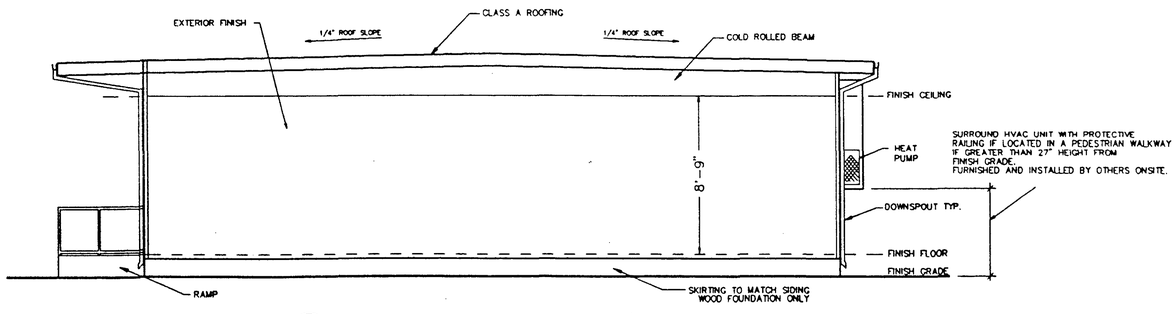
ELEVATION (A)



ELEVATION (B)

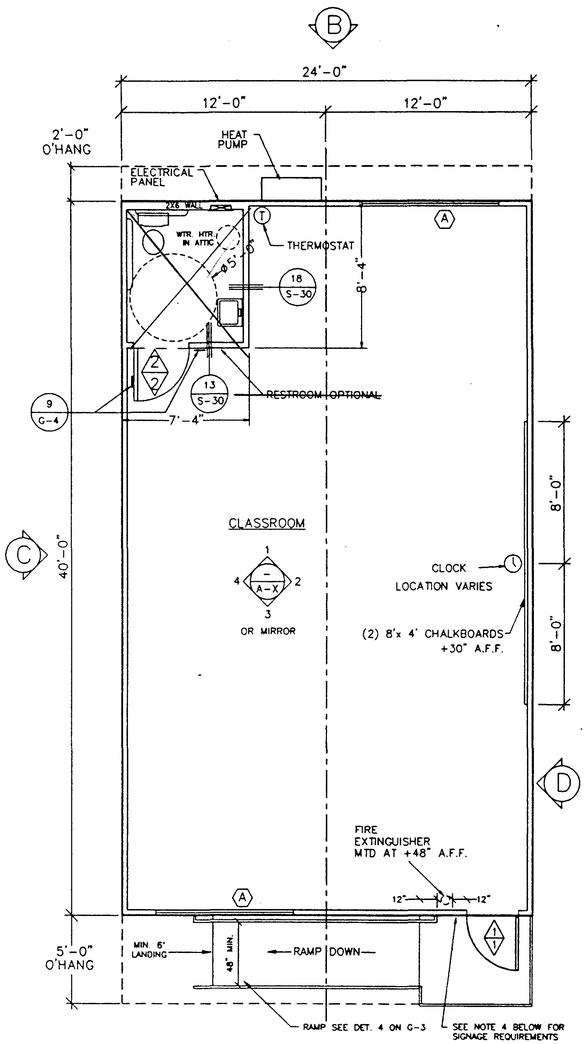


ELEVATION (C)



ELEVATION (D)

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



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

FLOOR PLAN

INDICATES DOOR TYPE — SEE SHEET G-1
INDICATES HARDWARE TYPE

(A) INDICATES WINDOW TYPE– SEE SHEET G-1

NOTES:

1. MANUFACTURER SHALL MECHANICALLY ATTACH METAL TAG TO EXTERIOR OF BUILDING SHOWING OSA 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 T-1 PROVIDED AND INSTALLED BY OTHERS ONSITE. SIM. TO DET. 9 ON G-4.
5. ANY ROOM HAVING AND 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. (OCCUPANT LOAD 48)
6. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8-1/2 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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PC-100073

ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2000

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS CR SS
DATE MAR 05 2003

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03-
AC FLS CR SS
DATE FEB 7 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03
AC FLS CR SS
DATE SEP 07 2000

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF REGULATION SERVICES OFFICE OF REGULATION SERVICES
4 100118
AC D SS
DATE JAN 5 1998

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF REGULATION SERVICES OFFICE OF REGULATION SERVICES
4 100073
AC D SS
DATE JAN 5 1998

PROJECT
24'X40' MODULAR CLASSROOM BUILDING

TITLE
FLOOR PLAN & EXTERIOR ELEVATIONS

JOB #

DATE 1-9-98

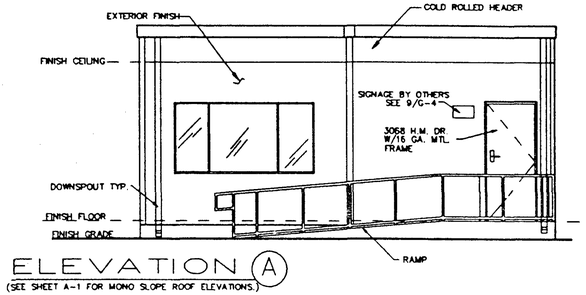
DRAWN BY R.D.L.

SCALE

APPROVED

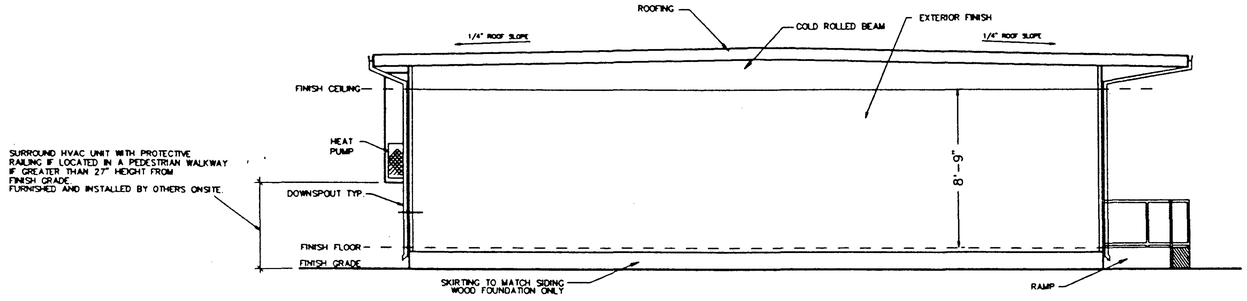
REVISIONS

SHEET NO.
A-1-24



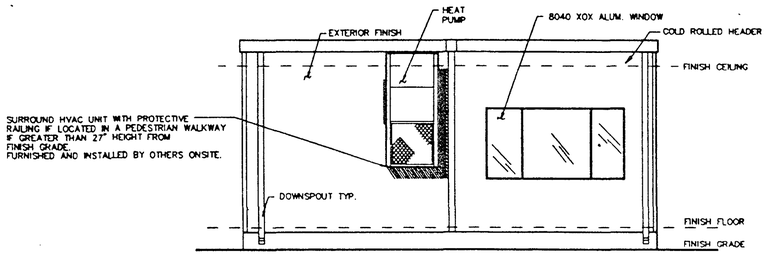
ELEVATION (A)

(SEE SHEET A-1 FOR MONO SLOPE ROOF ELEVATIONS.)



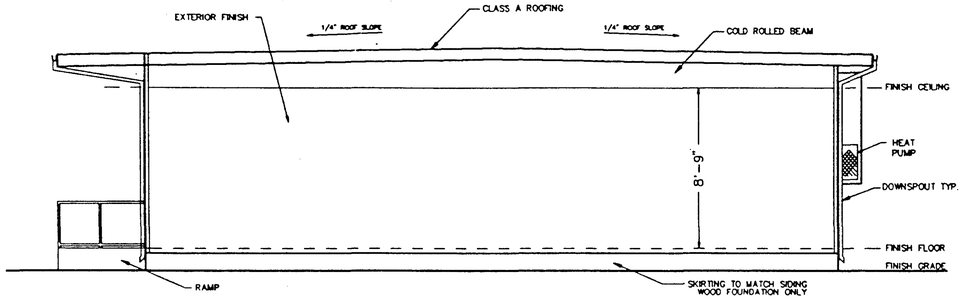
ELEVATION (C)

(SEE SHEET A-1 FOR MONO SLOPE ROOF ELEVATIONS.)



ELEVATION (B)

(SEE SHEET A-1 FOR MONO SLOPE ROOF ELEVATIONS.)



ELEVATION (D)

(SEE SHEET A-1 FOR MONO SLOPE ROOF ELEVATIONS.)

IDENTIFICATION STAMP
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PC-

ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP

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

LICENSE EXPIRES 6-30-2000

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
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APP# 3
AC FLS SS 60
DATE FEB 7 2001

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APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 05 2001

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IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
4 100118
AC FLS SS
DATE JAN 15 1999

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4 100073
AC FLS SS
DATE JAN 15 1999

PROJECT
24'X40' MODULAR CLASSROOM BUILDING

TITLE
EXTERIOR ELEVATIONS (DUAL PITCH ROOF)

24x40

JOB 1

DATE 12-8-97

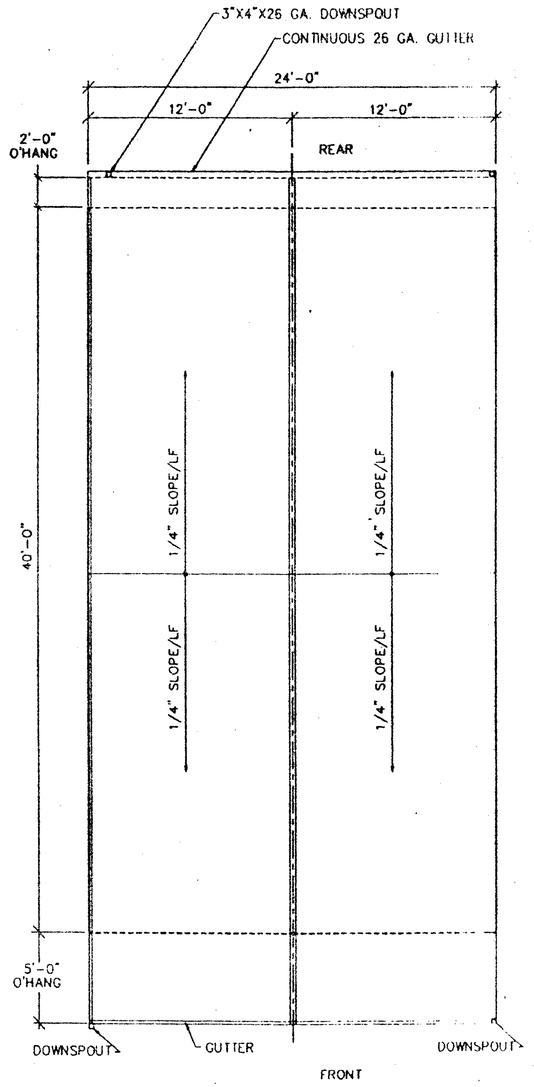
DRAWN BY R.D.L.

SCALE

APPROVED

REVISIONS

SHEET NO.
A-2-24



DUAL PITCH ROOF PLAN

SEE SHEET G-1 FOR ROOFING MATERIALS

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

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STRUCTURAL ENGINEERS STAMP
LICENSE EXPIRES 6-30

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AC FLS SS
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AC FLS SS
DATE FEB 7 2001

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OFFICE OF REGULATION SERVICES
4 100023
AC FLS SS
DATE JAN 16 1998

STATE AGENCY APPROVAL

PROJECT
24'X40' MODULAR CLASSROOM BUILDING

TITLE
ROOF PLANS (DUAL PITCH)

JOB #

DATE 1-9-98

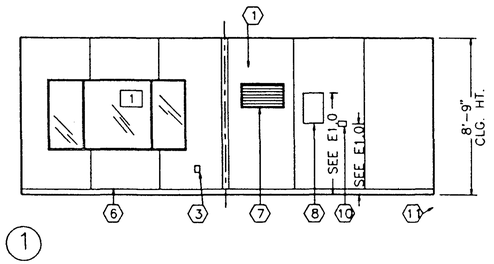
DRAWN BY R.D.L.

SCALE

APPROVED

REVISIONS

SHEET NO.
A-3-24



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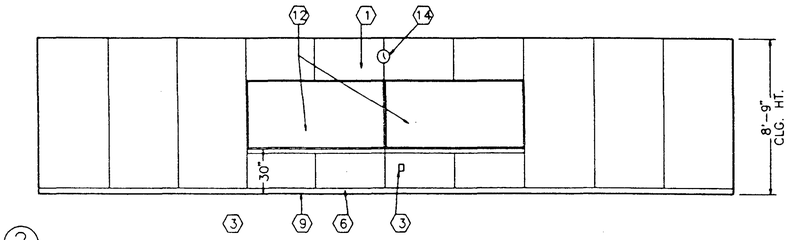

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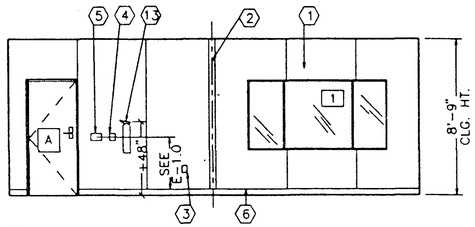

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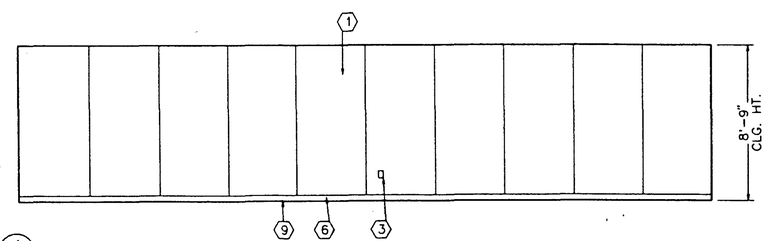

4

NOTES:

- A — EXTERIOR DOOR (SEE DOOR SCHEDULE SHT. A5.0)
- 1 — EXTERIOR WINDOW (SEE WINDOW SCHEDULE SHT. A5.0)
- ⟨1⟩ TYPICAL INTERIOR FINISH (SEE FINISH SCHEDULE SHT. A5.0)
- ⟨2⟩ CLOSURE AT MODULAR JOINT
- ⟨3⟩ DUPLEX WALL RECEPTACLE +18" AFF TO CENTER (SEE E1.0)
- ⟨4⟩ FIRE ALARM PULL STATION (SEE E1.0)
- ⟨5⟩ LIGHT SWITCH (SEE E1.0)
- ⟨6⟩ TOP SET BASE (TYPICAL) SEE FINISH SCHEDULE
- ⟨7⟩ RETURN AIR GRILL
- ⟨8⟩ ELECTRICAL PANEL (SEE E1.0)
- ⟨9⟩ FINISH FLOOR
- ⟨10⟩ THERMOSTAT SEE MECH. DWGS. AND SHT. E1.0
- ⟨11⟩ MODULAR JOINT
- ⟨12⟩ 8'-0" X 4'-0" MARKERBOARD
- ⟨13⟩ FIRE EXTINGUISHER: 5 LBS. DRY CHEM W/ 2AQ-10BC UL RATING ON WALL, HANDLE AT +48" AFF
- ⟨14⟩ 12" DIA. ELECTRIC CLOCK (SEE SHT. E1.0)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03
AC FLS SS
DATE

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ARCHITECT APPROVAL

REN 9-30-01
STATE OF CALIFORNIA

STRUCTURAL ENGINEERS STAMP

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SUMNER
No. 1603
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2000

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03-
AC FLS SS
DATE FEB 7 2001

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 05 2003

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4 100118
AC FLS SS
DATE JUN 15 1999

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
10.0073
AC FLS SS
DATE JUN 13 1998

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DIV. OF THE STATE ARCHITECT
APP03
AC FLS SS
DATE SEP 27 2000

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

P.C.-

PROJECT 24'X40' MODULAR CLASSROOM BUILDING

TITLE INTERIOR ELEVATIONS

24x40

JOB

DATE 12-8-97

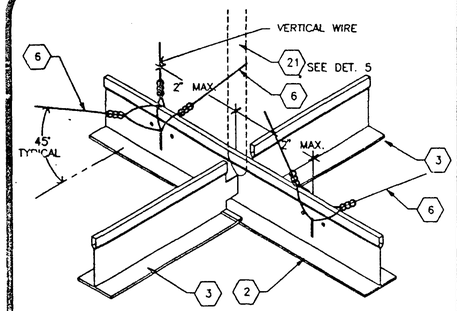
DRAWN BY R.D.L.

SCALE

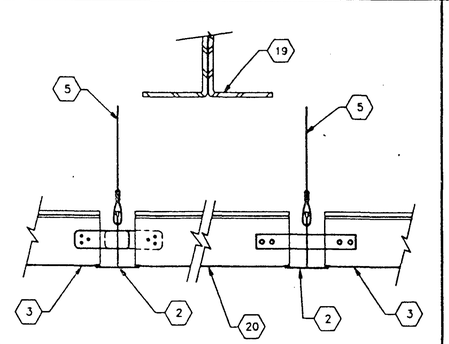
APPROVED

REVISIONS

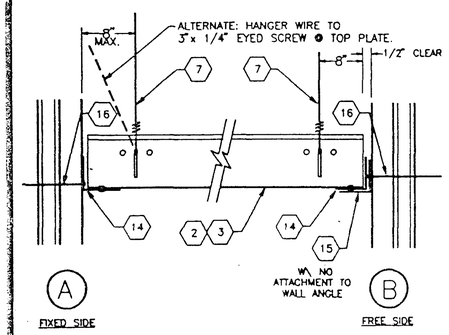
SHEET NO.
A-4-24



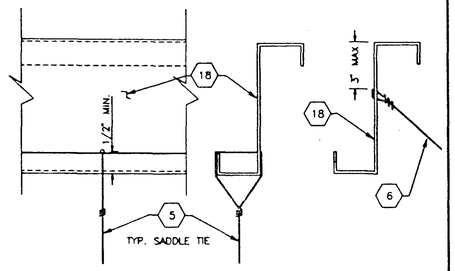
1 SPLAY WIRE



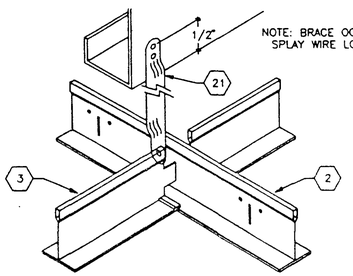
2 GRID AT MODLINE



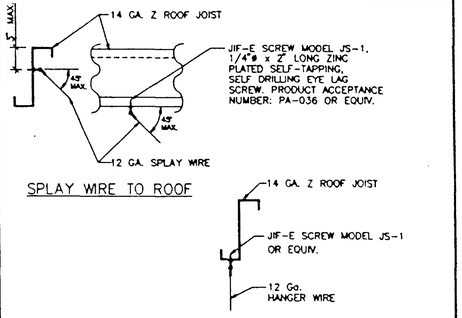
3 GRID AT WALL



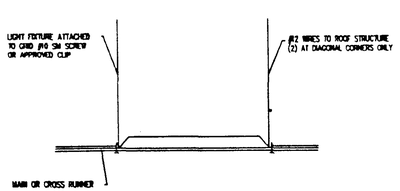
4 WIRE ATTACHMENT



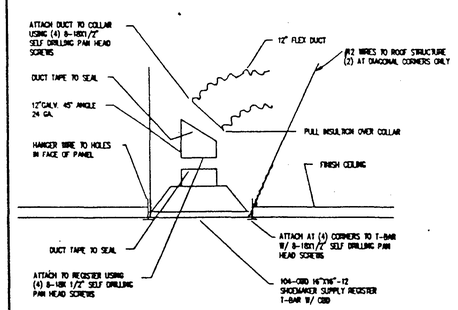
5 VERTICAL BRACE



6 ALTERNATE WIRE ATTACHMENT



7 LIGHTING FIXTURE DETAIL NTS



8 REGISTER BOX DETAIL NTS

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. W7-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 DISTORT.

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 (2) #8 SHEET METAL SCREWS.

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.

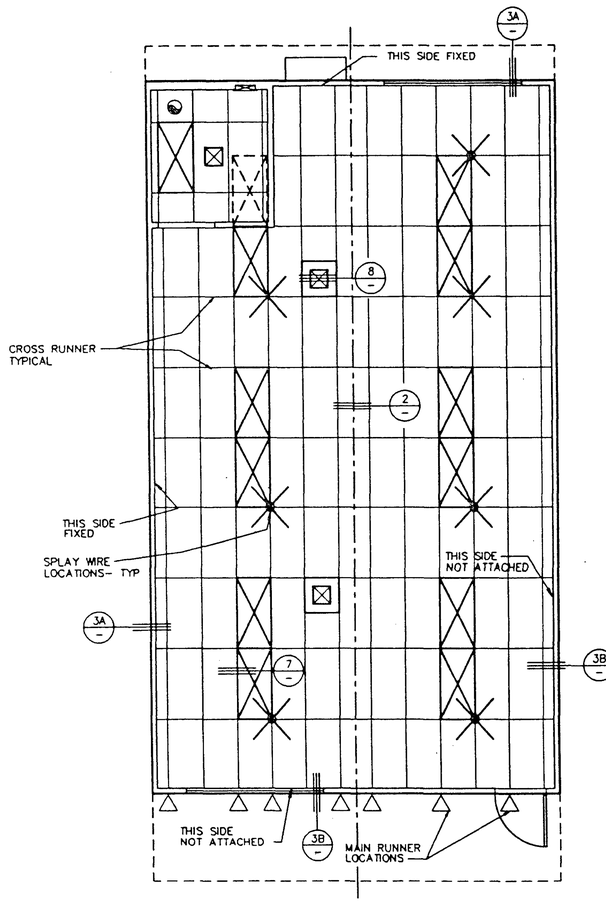
17

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 CONDUIT AT SPLAY WIRE LOCATIONS. DRILL 1/8" HOLE THRU CONDUIT AT TOP & BOTTOM. ATTACH CONDUIT TO JOIST ABOVE OR TO BLOCKING W/ (2) #8 SCREWS.



REFLECTED CEILING PLAN

LEGEND

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

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STRUCTURAL ENGINEERS STAMP
No 3802 JAMES T. SUTTON REGISTERED STRUCTURAL ENGINEER STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2000

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 05 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03-
AC FLS SS
DATE FEB 7 2001

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4 100118
AC FLS SS
DATE JAN 15 1998

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4 100073
AC FLS SS
DATE JAN 15 1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03-
AC FLS SS
DATE SEP 6 1 2000

STATE AGENCY APPROVAL

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920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 786-3035 FAX: (909) 786-1523

PC-

PROJECT
24'X40' MODULAR CLASSROOM BUILDING

TITLE
REFLECTED CEILING PLAN

JOB #

DATE 12-8-97

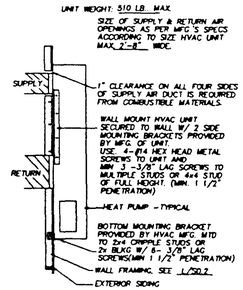
DRAWN BY R.D.L.

SCALE

APPROVED

REVISIONS

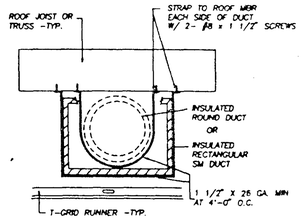
SHEET NO.
A-6-24



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

HVAC MOUNTING

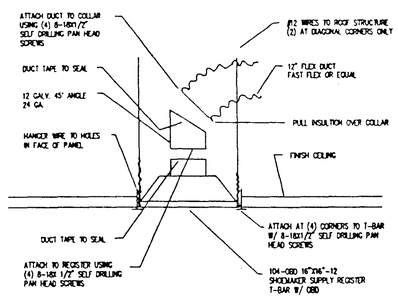
SCALE: 3/8" = 1'-0"



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

DUCT MOUNTING

SCALE: 1" = 1'-0"



REGISTER BOX DETAIL

NTS

EQUIPMENT & MATERIAL SCHEDULE

(HP 1) HEAT PUMP 'BARD' WALLMOUNT, WH421-LA08VX4, OR EQUIV.
41,500 NOM. BTUH COOLING CAPACITY
41,000 NOM. BTUH HEATING CAPACITY FROM COMPRESSOR
OR 27,300 NOM. BTUH HEATING CAPACITY FROM HEAT STRIP
BUT NOT BOTH
MCA 46, MOCP 50, 1500 CFM @ .3 ESP, UNIT WEIGHT 510 LB..
230 VOLT, 60 CYCLE, SINGLE PHASE

INTERIOR DUCTWORK- FLEX DUCT W/ 1"
INSULATION- CLASS 1 U.L.-181
FLAME SPREAD - 15
SMOKE DEVELOPED - 25

LEGEND

(T) THERMOSTAT - WHITE ROGERS 1F92-71
MOUNT AT +48" A.F.F.

16"x16" LAY-IN, 4-WAY OPPOSED BLADE SUPPLY AIR DIFFUSER

EXHAUST FAN (BROAN #670 OR EQUAL)
50 CFM

MECHANICAL NOTES

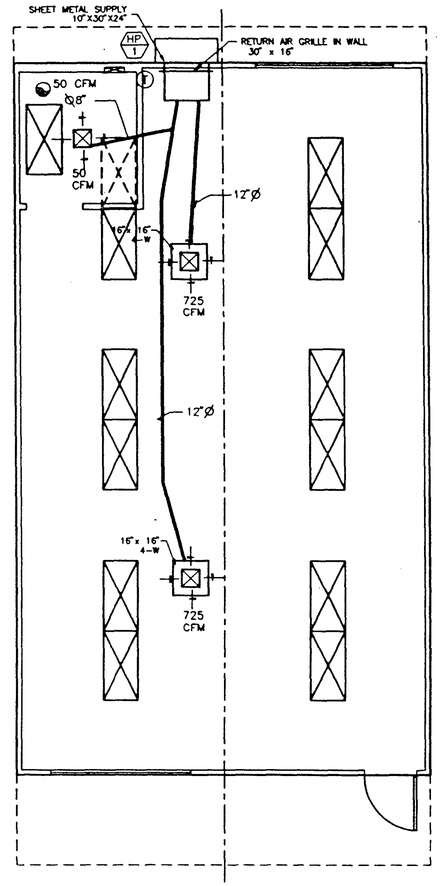
ROUND FLEX DUCT SHALL BE 'GLASS FLEX' ABL-181 OR EQUAL U.L. LISTED CLASS 1 FLEXIBLE DUCT WITH 13/16" THICK FIBERGLASS INSULATION. NON-PERFORATED LINER AND ADJUSTABLE SHEET METAL COLLARS.

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



MECHANICAL PLAN

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APPROVED
AC FLS SS
DATE

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ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 38602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2000

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03
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DATE FEB 7 2001

STATE AGENCY APPROVAL

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APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 05 2001

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4 100118
AC
DATE JAN 15 1998

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
41000073
AC FLS SS
DATE JAN 15 1998

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APPROVED
AC FLS SS
DATE

PROJECT
24'X40' MODULAR CLASSROOM BUILDING

TITLE
MECHANICAL PLAN

24x40

JOB #

DATE 12-8-97

DRAWN BY R.D.L.

SCALE

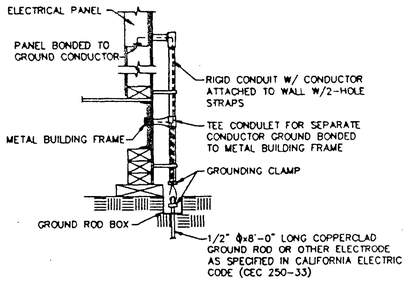
APPROVED

REVISIONS

SHEET NO.
M-1-24

SYMBOL LEGEND

- DISCONNECT–GENERAL SWITCH R610–B,60 AMP. NOT REQUIRED ON A/C UNITS WITH INTERNAL DISCONNECT BREAKER
- PULL STATION @ +48" A.F.F.
- EXT. HORN @ +7'–0" A.F.F.
- 110V. RECEPTACLE 20 AMP. HOSP. GRADE @ +15" A.F.F.
- SWITCH @ +42" A.F.F.
- THERMOSTAT @ +48" A.F.F.
- CLOCK @ +8'–0"
- EXTERIOR LIGHT– SEE FIXTURE SCHEDULE
- STROBE LIGHT @ +80" A.F.F.

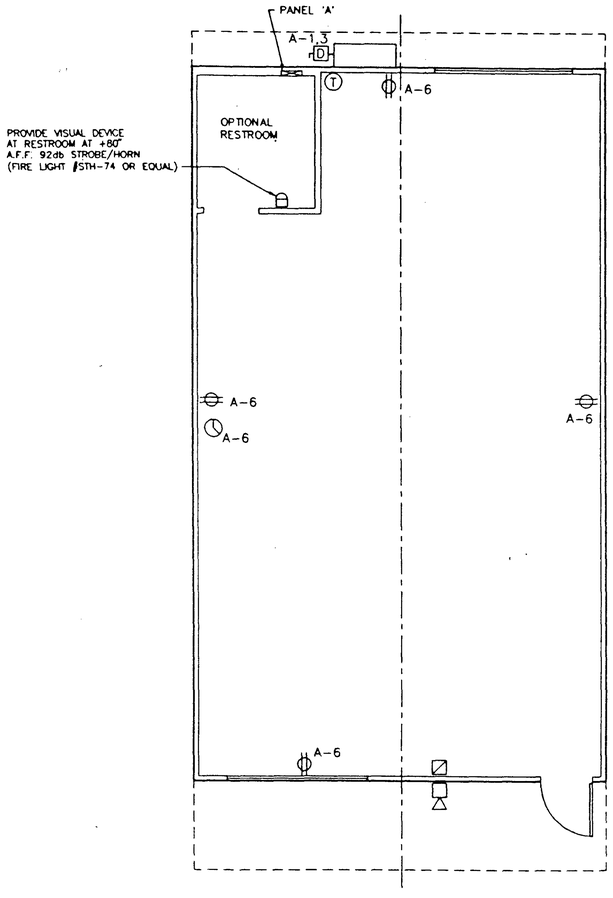


NOTES:
1. SIZE OF CONDUCTORS SHALL COMPLY W/CEC TABLE 250–95.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & TO METAL BUILDING FRAME (CEC 250–81) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (CEC 250–81 & 250–83).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). INCLUDING RAMP TO STEEL FRAME.

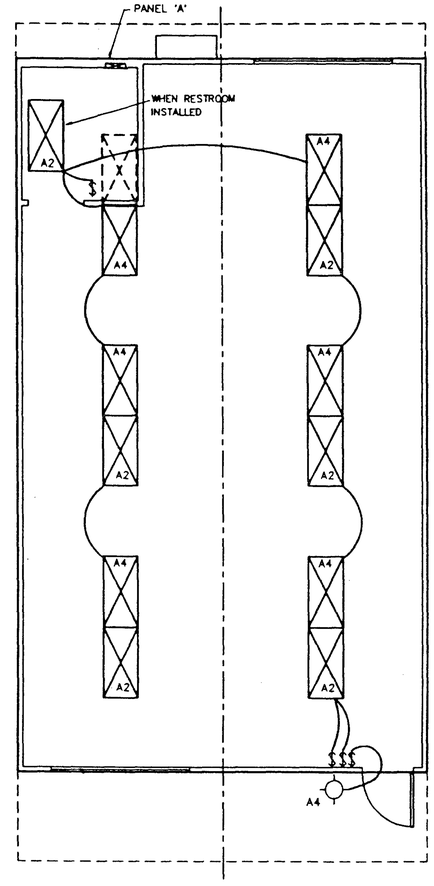
   CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS W/CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'–0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250–84).
5. PROJECT INSPECTOR SHALL WITNESS GROUNDING TEST.

ACCEPTABLE GROUNDING DETAIL

BY OWNER



ELECTRICAL POWER PLAN



ELECTRICAL LIGHTING PLAN

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.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP# 03 1 1 2 3 1 7 AC. FLS SS DATE SEP 2 7 2000

PANELBOARD SCHEDULE W/ OPTIONAL WATER HEATER — PANEL A(1)

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

DESCRIPTION	WATTS A@	WATTS B@	WIRE SIZE	BREAKER	POLE	CKT. NO	O A	O B	CKT. NO	POLE	BREAKER	WIRE SIZE	WATTS A@	WATTS B@	DESCRIPTION
HVAC 3.5 TON	5290	—	8	50	2	1			2	1	20	12	864	—	LIGHTS
HVAC 3.5 TON	—	5290	8	–	–	3			4	1	20	12	—	964	LIGHTS/PORCH
OPTIONAL WATER HEATER	—	1400	12	20	1	5			6	1	20	12	720	—	RECEPT
–	—	—	–	–	–	7			8	–	–	–	—	—	–
–	—	—	–	–	–	9			10	–	–	–	—	—	–
–	—	—	–	–	–	11			12	–	–	–	—	—	–
SUB TOTAL	5290	6690											1584	964	SUB TOTAL

LOAD KW A 6,874 B 7,654 TOT 14,528 — *L.C.L. = 1.828 x 1.25 = 2,285 OTHER = 12,700 MAX DEMAND = 14,985 — TOTAL LOAD CONN. 60.5 AMPS MAX DEMAND 62.4 AMPS

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 A@	WATTS B@	WIRE SIZE	BREAKER	POLE	CKT. NO	O A	O B	CKT. NO	POLE	BREAKER	WIRE SIZE	WATTS A@	WATTS B@	DESCRIPTION
HVAC 3.5 TON	5290	—	8	50	2	1			2	1	20	12	864	—	LIGHTS
HVAC 3.5 TON	—	5290	8	–	–	3			4	1	20	12	—	964	LIGHTS/PORCH
–	—	—	–	–	–	5			6	1	20	12	720	—	RECEPT
–	—	—	–	–	–	7			8	–	–	–	—	—	–
–	—	—	–	–	–	9			10	–	–	–	—	—	–
–	—	—	–	–	–	11			12	–	–	–	—	—	–
SUB TOTAL	5290	5290											1584	964	SUB TOTAL

LOAD KW A 6,874 B 6,254 TOT 13,128 — *L.C.L. = 1.828 x 1.25 = 2,285 OTHER = 11,300 MAX DEMAND = 13,585 — TOTAL LOAD CONN. 54.7 AMPS MAX DEMAND 56.6 AMPS

FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
⊠	2'x 4' FLUORESCENT DROP–IN LIGHT FIXTURE, ACRYLIC PRISMATIC LENS, ENERGY SAVING BALLAST, (4) 35 WATT TUBES. WEIGHT– 27 lbs	144 WATTS	
⊕	INCANDESCENT SURFACE MOUNTED EXTERIOR LIGHT FIXTURE WITH IMPACT RESISTANT ENCLOSURE.	100 WATTS	

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ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP
LICENSE EXPIRES 8-31-2002

STATE AGENCY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP# 03 1 1 2 3 1 7 AC. FLS SS DATE MAR 0 5 2019

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP# 3 AC. FLS SS 60 DATE FEB 7 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 4 100118 AC. FLS SS DATE JAN 0 5 1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 4 100973 AC. FLS SS DATE JAN 1 3 1998

PC–

PROJECT 24'X40' MODULAR CLASSROOM BUILDING

TITLE ELECTRICAL LIGHTING PLAN
ELECTRICAL POWER PLAN
PANEL SCHEDULE

JOB #

DATE 12-8-97

DRAWN BY R.D.L.

SCALE

APPROVED

REVISIONS

SHEET NO. E–1–24

GENERAL NOTES:

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 1994 EDITION OF THE CALIFORNIA BUILDING CODE, CCR TITLE 24, PART 2 (CBC) AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1, LATEST REVISIONS (MODIFICATIONS TO THE 1994 UNIFORM BUILDING CODE (UBC), UBC STANDARDS AND UBC RECOGNIZED STANDARDS. – NOTE, ALL UBC RECOGNIZED STANDARDS AS APPLICABLE ARE REQUIRED FOR THIS PROJECT.) ALSO REFER TO THE DIVISION OF THE STATE ARCHITECT – STRUCTURAL SAFETY SECTION "INTERPRETATIONS OF REGULATIONS". SEE ESPECIALLY IR 23-6. THESE STRUCTURES ARE DESIGNED PER THE MODIFIED REQUIREMENTS TEMPORARY FOUNDATIONS (U.O.N.).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS.
3. DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO DETAILS FOR SIMILAR CONSTRUCTION SHOWN ON THESE DRAWINGS.
4. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS.
6. TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
7. WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.
8. PROVIDE OPENINGS, CURBS, FRAMING AND/OR SUPPORTS FOR ITEMS INDICATED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL OR OTHER DRAWINGS INCLUDED IN CONSTRUCTION DOCUMENTS.
9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.
10. ALL ELEVATIONS ARE REFERENCED FROM TOP OF FINISHED FIRST FLOOR ELEVATION = 0'-0".
11. PROVIDE INSPECTIONS, TESTS AND REPORTS IN ACCORDANCE WITH CCR TITLE 24, PART 2 AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1.
12. IN ADDITION TO CONTINUOUS PROJECT INSPECTION, THE FOLLOWING SPECIAL INSPECTIONS SHALL BE REQUIRED, AS A MINIMUM:
    A. INSPECTION OF ALL WELDING FOR STRUCTURAL STEEL, PER TITLE 24, PART 2, SECTION 2212A.5.
    B. INSPECTION FOR CONCRETE AND CONCRETE REINFORCEMENT PLACEMENT, PER TITLE 24, PART 1, CHAPTER 4, GROUP 1 AND TITLE 24, PART 2, SECTION 1701A.
13. ALL REQUIRED INSPECTIONS AND TESTS ARE THE RESPONSIBILITY OF THE OWNER. ALL INSPECTORS SHALL PROVIDE REPORTS AS REQUIRED BY TITLE 24, PART 1, CHAPTER 4, GROUP 1.
14. DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE – DO NOT SCALE PLANS OR DETAILS.
15. WHEN MODULE IS RELOCATED – DO NOT REINSTALL NAILS OR SCREWS IN EXISTING HOLES.

WOOD:

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 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 NO. 2.
2. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1-95. 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 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 ANSI/ASME STANDARD B18.2.1-1981 AND 1991 EDITION OF THE NDS. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN BOLT DIAMETER. RE-TIGHTEN BOLTS BEFORE CLOSING IN WORK. BOLTS SHALL BE FULL BODY STEEL BOLTS WITH MINIMUM YIELD STRENGTH OF 45,000 PSI.
4. LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD B18.2.1 AND THE REQUIREMENTS OF THE 1991 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER LAG SCREWS NEED NOT HAVE PRE-DRILLED HOLES IF IT CAN BE SHOWN THAT THE WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL DIAMETER BODY LAG SCREWS WITH BENDING YIELD STRENGTHS PER TABLES 9.3 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 SCREW HEADS WHICH BEAR ON WOOD.
6. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1 AND THE REQUIREMENTS OF THE 1991 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS PER TABLES 11.3 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 FULL HEAD COMMON NAILS PER ALL REQUIREMENTS OF 1991 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 23A-I-Q. 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, PART 2; WITH MINIMUM BENDING YIELDS PER TABLE 12.3B IN NDS. (SEE NAIL EQUIVALENCE BELOW.)
10. NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP. U.O.N.)
    6d EQUALS .113" DIA. – PROVIDE 1.36" MIN. POINT PENETRATION
    8d EQUALS .131" DIA. – PROVIDE •1.57" MIN. POINT PENETRATION
    10d EQUALS .148" DIA. – PROVIDE •1.78" MIN. POINT PENETRATION
    16d EQUALS .162" DIA. – PROVIDE •1.94" MIN. POINT PENETRATION
    • 1 1/2" AT 2x MEMBERS
11. EXCEPT WHERE MORE STRINGENT CONSTRUCTION IS SHOWN ON THE DRAWINGS, WOOD CONSTRUCTION SHALL COMPLY WITH TITLE 24, PART 2, SECTION 2326A, CONVENTIONAL LIGHT-FRAME CONSTRUCTION PROVISIONS, AS A MINIMUM.
12. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303A.1.3, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS FROM AGENCY APPROVED BY DSA. ALL FOUNDATION MEMBERS SHALL BE MARKED AS "FOR GROUND CONTACT (LP22)" OR "FOR ABOVE GROUND USE (LP2)" AS APPROPRIATE. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2% OR AN APPROVED EQUIVALENT). WHERE NOTED, MEMBERS BELOW THE SUB FLOOR THAT ARE NOT A PART OF THE FOUNDATION SHALL BE PRESSURE TREATED PER LP2. A QUALITY CONTROL STAMP IS NOT REQUIRED FOR STRUCTURAL MEMBERS BELOW THE SUB FLOOR THAT ARE NOT PART OF THE FOUNDATION.
13. IF MACHINE NAILING IS UTILIZED FOR THIS PROJECT, CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF CCR TITLE 24, PART 2, SECTIONS 2311A.3.3. AND 2514A.3. MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
14. POWDER DRIVEN FASTENERS SHALL BE BY HILTI, INC., HILTI FASTENING SYSTEMS – OR EQUAL. INSTALL IN ACCORDANCE WITH DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS AND ICBO APPROVALS.

CONCRETE:

1. CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS IN ACCORDANCE WITH ASTM C31 AND C39. TESTING SHALL BE IN ACCORDANCE WITH CBC (CCR TITLE 24, PART 2) SECTION 1905A.6. THREE CYLINDERS FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN BY THE OWNER'S TESTING LABORATORY NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED. PROVIDE 6% ENTRAINED AIR BY VOLUME WITH ADMIXTURE PER ASTM C260 FOR SITES ABOVE 1500 FEET IN ELEVATION, SEE ALSO CBC SECTION 1904A.2.
2. ALL CONCRETE SHALL BE CONSOLIDATED BY MECHANICAL VIBRATORS.
3. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CBC (CCR TITLE 24, PART 2) AND ACI STANDARD 318, LATEST EDITION, OF THE AMERICAN CONCRETE INSTITUTE, UNLESS SHOWN OR NOTED OTHERWISE ON THESE DRAWINGS.
4. AGGREGATE SHALL CONFORM TO ASTM C33 AND CBC SECTION 1903A.3. GRADING OF COMBINED AGGREGATE SHALL BE PER TITLE 24, PART 2, TABLE 19A-J. (1" MAX. AGGREGATE).
5. CEMENT SHALL BE ASTM C150, TYPE I OR TYPE II. SEE ALSO REQUIREMENTS OF CBC SECTION 1903A.2.
6. REINFORCING STEEL SHALL BE DEFORMED CONFORMING TO ASTM A615 GRADE 40 UNLESS OTHERWISE NOTED.
7. WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.
8. WELDING OF REINFORCING STEEL SHALL BE PERFORMED ONLY WHERE INDICATED ON THE DRAWINGS AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE CBC, UBC STANDARD 19-2 AND THE REINFORCING STEEL WELDING CODE, AWS D1.4, LATEST REVISION, OF THE AMERICAN WELDING SOCIETY. PROVIDE WELDING PROCEDURE AND MILL TEST REPORTS FOR ALL REINFORCEMENT TO BE WELDED. REINFORCING WITH C.E. ABOVE .75 SHALL NOT BE WELDED. ARCHITECT SHALL APPROVE WELDING PROCEDURE, WELDER QUALIFICATIONS AND MILL TEST REPORTS PRIOR TO EXECUTION OF WELDING. PROVIDE INSPECTION PER SECTION 1928A.12, TITLE 24, PART 2.
9. COVERAGE FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CBC AND ACI STANDARD 318 UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
10. LAP SPLICES FOR REINFORCING BARS SHALL BE 50 BAR DIAMETERS OR 18" MINIMUM UNLESS SHOWN OTHERWISE ON THE DRAWINGS. WIRE BARS TOGETHER AT LAPS OR SPLICES. STAGGER LAPS IN ADJACENT HORIZONTAL OR SLOPING REINFORCING BARS A MINIMUM OF THE REQUIRED SPLICE LENGTH. HOOKS AND BENDS SHALL BE CBC STANDARD PER CCR TITLE 24, PART 2, SECTION 1907A.1 THROUGH 1907A.3 UNLESS SHOWN OTHERWISE. WELDED WIRE FABRIC SHALL BE SPLICED BY LAPPING A MINIMUM OF 12 INCHES OR TWO CROSS WIRES, WHICHEVER IS GREATER.
11. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ASTM C94 (UBC STANDARD 19-3) AND ACI STANDARD 304. ALSO COMPLY WITH REQUIREMENTS OF CCR TITLE 24, PART 2, SECTION 1905A.
12. ALL EMBEDDED ITEMS SHALL BE PLACED ACCURATELY AND SECURED PRIOR TO BEGINNING CONCRETE PLACEMENT.
13. CONSTRUCTION JOINTS SHALL BE LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. CONSTRUCTION JOINTS SHALL COMPLY WITH CBC SECTION 1906A.4. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS OR APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER AND DSA.
14. PROVIDE SHOP DRAWINGS FOR ALL REINFORCING STEEL TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY FABRICATION.
15. CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGNS TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE. CONCRETE MIX DESIGNS SHALL BE PER CBC SECTION 1905A.2, METHOD A (TABLE 19A-A-7). [ALTERNATE MIX DESIGN: METHOD B OR C MAY BE USED PER CBC SECTION 1905A.2 THROUGH 1905A.3. METHOD B OR C MIX DESIGNS SHALL BE SIGNED BY A CIVIL ENGINEER LICENSED IN CALIFORNIA.]
16. ALL GROUT SHALL BE NONMETALLIC NON-SHRINK HIGH STRENGTH GROUT BY MASTER BUILDERS OR EQUIVALENT AS APPROVED BY THE ARCHITECT. UTILIZE PRODUCTS RECOMMENDED BY THE MANUFACTURER FOR EACH APPLICATION AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
17. REINFORCING AND EMBEDMENT ITEMS SHALL BE FREE OF EXCESSIVE SCALE OR RUST, DIRT, GREASE, OIL OR ANY OTHER SUBSTANCE THAT WILL IMPAIR BOND WITH CONCRETE.
18. OWNER SHALL PROVIDE INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24 FOR THE PLACEMENT OF CONCRETE AND CONCRETE REINFORCEMENT, FOR BOLTS INSTALLED IN CONCRETE AND FOR SAMPLING CONCRETE. OWNER'S INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
19. ADDITIONALLY, PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1928A. A PLACING RECORD SHALL BE MAINTAINED FOR ALL CONCRETE PLACED IN THE STRUCTURE.
20. BATCH PLANT INSPECTION, CEMENT AND REINFORCING TESTS ARE NOT REQUIRED. THE QUANTITIES OF CONCRETE MATERIALS SHALL BE CERTIFIED BY A LICENSED WEIGHMASTER AND THE QUALITY OF MATERIALS SHALL BE VERIFIED BY THE OWNER'S TESTING AGENCY. COMPLY WITH ALL REQUIREMENTS OF TITLE 24, PART 2, SECTIONS 1928A.5.2 AND 1928A.6.
21. ALL CONCRETE WORK SHALL BE FORMED. CASTING OF FOUNDATION CONCRETE AGAINST SIDES OF FOOTING EXCAVATIONS SHALL NOT BE ALLOWED EXCEPT AS SPECIFICALLY APPROVED BY ARCHITECT, STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
22. MAX. CONC. SLUMP TO BE 3"

CONCRETE FOUNDATION:

1. FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW.
2. FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF, AS PER TITLE 24, TABLE 18A-I-A.
3. THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE TYPICAL FOOTING STEP DETAILS ON THESE DRAWINGS.
4. CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.
5. PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
6. FOUNDATIONS ARE DESIGNED AS FIXED FOUNDATIONS IN ACCORDANCE WITH TITLE 24, CHAPTER 18A. (REFERENCE IR 23-6)
   A. ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS BY 2" MINIMUM.

STRUCTURAL STEEL:

1. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE ASTM A36 UNLESS NOTED OTHERWISE.
2. TUBE MEMBERS SHALL BE ASTM A500 WITH MIN. YIELD STRESS OF 46,000 PSI., PIPE MEMBERS SHALL BE ASTM A53 WITH A MIN. YIELD STRESS OF 35,000 P.S.I.
3. UNLESS OTHERWISE NOTED, LIGHT GAUGE STEEL PLATE (10 GAUGE AND LESS) SHALL BE GALVANIZED AND PER THE REQUIREMENTS OF ASTM A36, ASTM A446 OR EQUAL WITH MINIMUM YIELD STRESS OF 33,000 PSI.
4. ALL BOLTS SHALL BE ASTM A307 MACHINE BOLTS UNLESS NOTED OTHERWISE.
5. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC) AND THE STRUCTURAL WELDING CODE – STEEL, AWS D1.1, LATEST EDITION, OF THE AMERICAN WELDING SOCIETY. INSPECTION OF ALL WELDING SHALL BE PROVIDED, SEE NUMBER 8, BELOW.
6. FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) (UBC CHAPTER 22, DIVISION IX). ALSO COMPLY WITH REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. (THERE ARE NO SELF-SUPPORTING FRAMES ON THIS PROJECT – TEMPORARY BRACING IS REQUIRED UNTIL ALL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE IN PLACE.)
7. PRIME ALL STEEL SURFACES WITH AN APPROVED PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE AND SURFACES TO RECEIVE FIELD WELDS. TOUCH-UP FIELD WELDS AND OTHER EXPOSED STEEL SURFACES AFTER ERECTION. ALTERNATE: PROVIDE GALVANIZED PER ASTM STANDARDS.
8. PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24, PART 2, SECTION 2212A (CBC). ALL STEEL SHALL BE PROPERLY IDENTIFIED PER SECTION 2212A.1.
9. WELDING SHOULD BE IN ACCORDANCE WITH IR-27-8 (REV. 10-25-95) SECTION K, ITEMS 1-8, 10-14, AND 18-23. SEE SHT. S-1A.

ABBREVIATIONS:

A.B.	ANCHOR BOLT	HCB	HOLLOW CONCRETE BLOCK
ABV.	ABOVE	HD	HOLDOWN
ADDL.	ADDITIONAL	HDR.	HEADER
ADJ.	ADJACENT	HK.	HOOK
ALT.	ALTERNATE	HORIZ.	HORIZONTAL
APPROX.	APPROXIMATE	H.S.	HIGH STRENGTH
ARCH.	ARCHITECTURAL		
		INFO.	INFORMATION
BLDG.	BUILDING	INTR.	INTERIOR
BLKG.	BLOCKING	INTRM.	INTERMEDIATE
BLW.	BELOW		
BM.	BEAM	JT.	JOINT
B.O.	BOTTOM OF	LCTN.	LOCATION
BOT.	BOTTOM		
B.S.	BOTH SIDES	MAX.	MAXIMUM
BTWN.	BETWEEN	MECH.	MECHANICAL
		MFR.	MANUFACTURER
C.J.	CONSTRUCTION JOINT	MIN.	MINIMUM
℄	CENTERLINE	MOD.	MODULE
CLG.	CEILING		
CLR.	CLEAR	(N)	NEW
CMU	CONCRETE MASONRY UNIT	N.S.	NEAR SIDE
COL.	COLUMN	N.T.S.	NOT TO SCALE
CONC.	CONCRETE		
CONSTR.	CONSTRUCTION	O.C.	ON CENTER
CONN.	CONNECTION	O.H.	OPPOSITE HAND/OVERHANG
CONT.	CONTINUOUS	OPNG.	OPENING
CP	COMPLETE PENETRATION	OPP.	OPPOSITE
CSK.	COUNTERSINK		
		PC.	PIECE
DBL.	DOUBLE	PL. (℗)	PLATE
DET.	DETAIL	PPT/PT	PRESSURE PRESERVATIVE TREATED
D.F.	DOUGLAS FIR		
DIAG.	DIAGONAL	P.W.	PLYWOOD
DIM.	DIMENSION		
D.O.	DITTO	REINF.	REINFORCEMENT
DRWG.	DRAWING	REQD.	REQUIRED
DIA., #	DIAMETER	RWD.	REDWOOD
(E)	EXISTING	SHTHG.	SHEATHING
EA.	EACH	SIM.	SIMILAR
E.F.	EACH FACE	SQ.	SQUARE
E.J.	EXPANSION JOINT	STD.	STANDARD
ELEV.	ELEVATION	STG'D.	STAGGERED
E.N.	END NAIL	STIFF.	STIFFENER
EQ.	EQUAL	S.W.	SHEARWALL
EQUIP.	EQUIPMENT	SYM.	SYMMETRICAL
E.S.	EACH SIDE		
EXTR.	EXTERIOR	T&B	TOP & BOTTOM
E.W.	EACH WAY	T&G	TONGUE & GROOVE
		THRU	THROUGH
F.F.	FINISH FLOOR	T.N.	TOE NAIL
F.G.	FINISH GRADE	T.O.	TOP OF
FIN.	FINISH	T.O.C.	TOP OF CONCRETE
FLR.	FLOOR	T.O.S.	TOP OF STEEL
F.N.	FACE NAIL	TS	TUBE STEEL
FND.	FOUNDATION	TYP.	TYPICAL
F.O.C.	FACE OF CONCRETE		
F.O.M.	FACE OF MASONRY	U.O.N.	UNLESS OTHERWISE NOTED
F.O.S.	FACE OF STUD	VERT.	VERTICAL
F.S.	FAR SIDE		
FTG.	FOOTING	W/	WITH
GA.	GAGE	W.P.	WORK POINT
GALV.	GALVANIZED	WWF	WELDED WIRE FABRIC
G.L.	GRID LINE	WND.	WINDOW
GLB	GLU-LAM BEAM		
GYP. BD.	GYPSUM BOARD		

PAD FOUNDATIONS: (SLIDING)

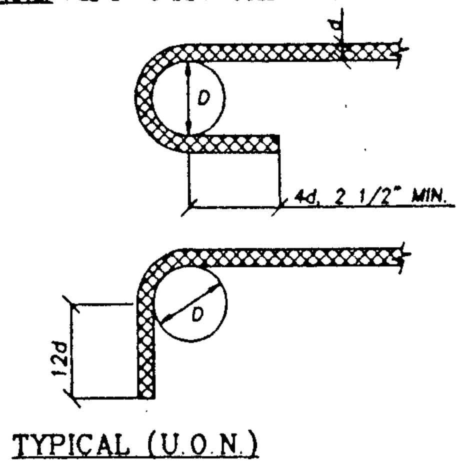
1. FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW
2. FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF, AS PER IR 23-6.
3. THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE FOOTING SHIM DETAILS ON THESE DRAWINGS.
4. CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.
5. PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
6. VERIFY THAT NO PIPES, UTILITIES, OR OTHER SUCH ITEMS OCCUR BELOW FOOTINGS.
7. FOUNDATIONS ARE DESIGNED AS "SLIDING FOUNDATION", IN ACCORDANCE WITH IR 23-6, TEMPORARY FOUNDATIONS.
   a. STAIRS AND RAMPS SHALL BE PROPERLY ANCHORED TO BUILDING TO PREVENT SEPARATION.
   b. ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS BY 12" MINIMUM.
   c. ALL UTILITY CONNECTIONS MUST ALLOW FOR 12" MINIMUM HORIZONTAL MOVEMENT IN ANY DIRECTION WITHOUT DAMAGE.
8. FINISH GRADES SHALL BE WITHIN MAX. 14" BELOW BOTTOM OF FLOOR JOISTS, WITHOUT EXCEPTION.

PAD FOUNDATIONS: (RESTRAINED)

1. FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW.
2. FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF, AS PER IR 23-6.
3. THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE FOOTING SHIM DETAILS ON THESE DRAWINGS.
4. CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.
5. PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
6. VERIFY THAT NO PIPES, UTILITIES, OR OTHER SUCH ITEMS OCCUR BELOW FOOTINGS.
7. FOUNDATIONS ARE DESIGNED AS "RESTRAINED FOUNDATION", IN ACCORDANCE WITH IR 23-6, TEMPORARY FOUNDATIONS.
   a. ANCHOR FOOTINGS AT BUILDING PERIMETER WITH 1" # GALVANIZED STANDARD STEEL PIPES DRIVEN FLUSH WITH TOP OF WOOD FOUNDATION PADS AND PENETRATING SOIL 12" MINIMUM AT A MAXIMUM SPACING OF 10'-0" O.C. AT SIDEWALLS AND AT EACH CORNER EACH MODULE AT ENDWALLS.
   b. STAIRS AND RAMPS SHALL BE PROPERLY ANCHORED TO BUILDING TO PREVENT SEPARATION.
   c. ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS BY 2" MINIMUM.
8. FINISH GRADES SHALL BE WITHIN MAX. 18" BELOW BOTTOM OF FLOOR JOISTS, WITHOUT EXCEPTION.

TYPICAL DETAILS:

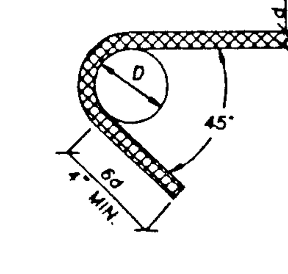
NOTE: ALL BARS BENT COLD – NO FIELD BENDING ALLOWED.



INSIDE BEND DIAMETERS

BAR SIZE	D
#3 TO #8	6d
#9, #10, #11	8d
#14, #18	10d

TYPICAL (U.O.N.)

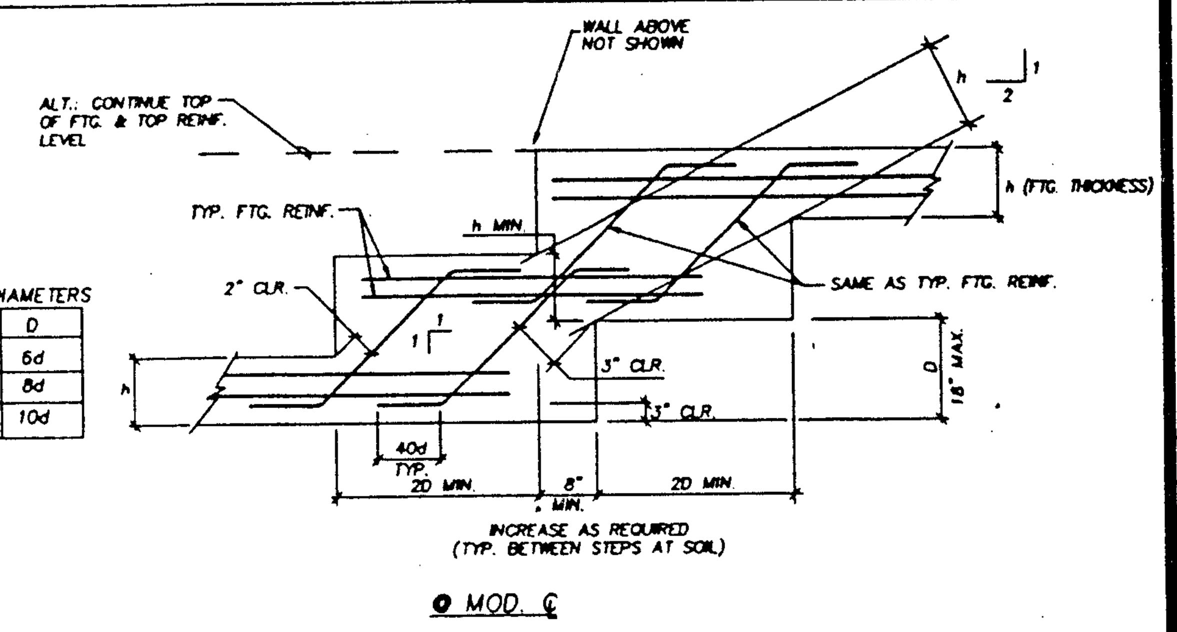


INSIDE BEND DIAMETERS

BAR SIZE	D
#3	1 1/2"
#4	2"
#5	2 1/2"

STIRRUPS & TIES

A / S-1 STD HOOKS AND BENDS IN REINF. STEEL (05/25/93)



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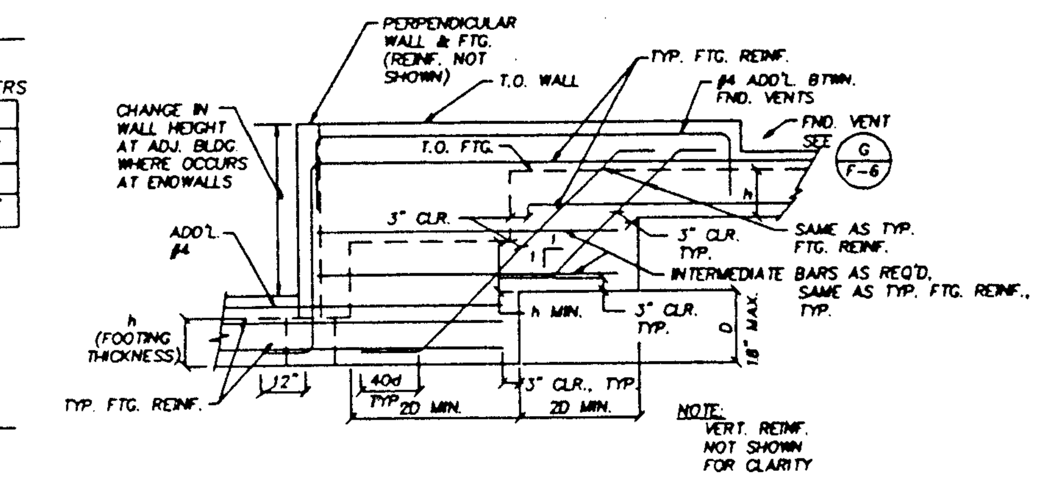
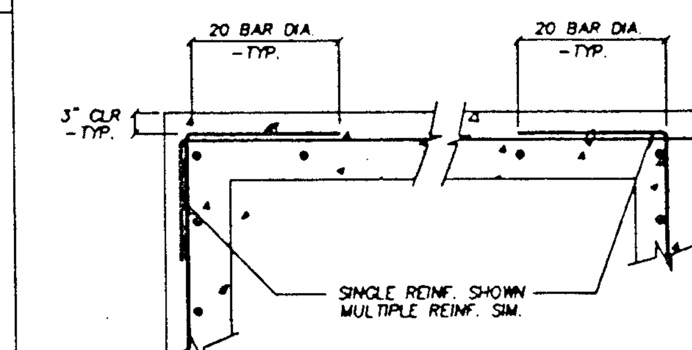
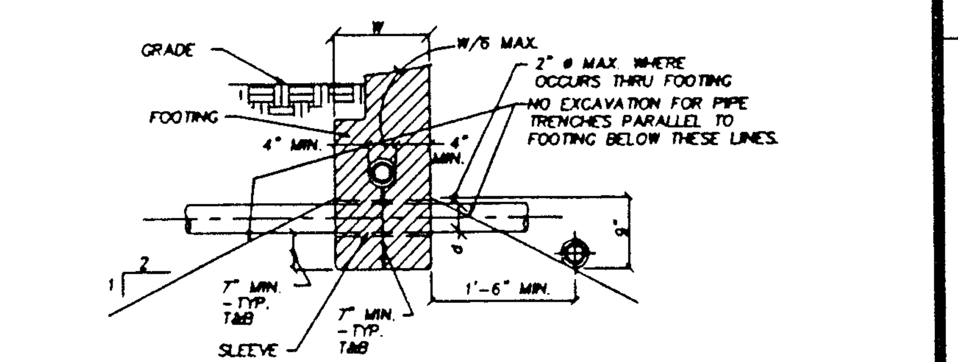


AT ENDWALL / SIDEWALL

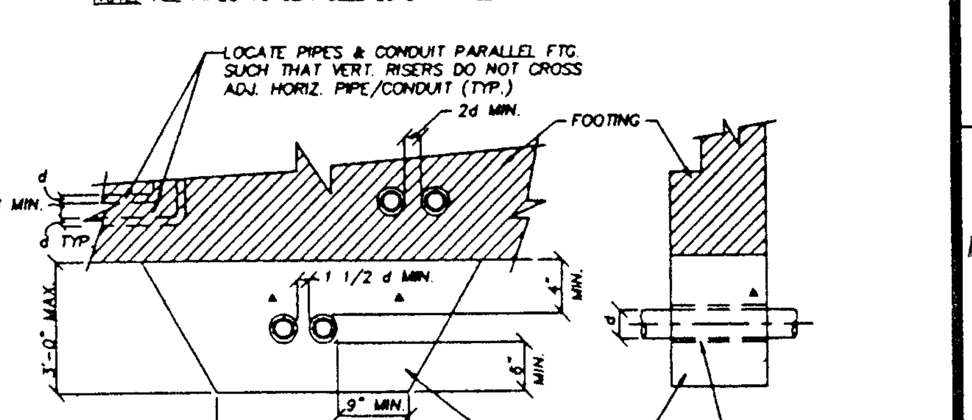
B / S-1 STEP FOOTING DETAIL (11/06/92)



C / S-1 CONC. REINF. DETAIL (11/06/92)



NOTE: ALL PIPES TO CLR. SLEEVES BY 1" ALL AROUND –CAULK AS REQ'D



NOTE: ALL PIPES TO CLEAR SLEEVES BY 1" ALL AROUND – CAULK AS REQUIRED. PIPE NEVER TO BE MORE THAN 2'-6" BELOW BOTTOM OF FOOTING; STEP FOOTING IF REQUIRED PER TYPICAL STEP DETAILS.

D / S-1 PIPES AT FOOTINGS (12/03/94)

POWER DRIVEN SHOT PINS (LOW VELOCITY)

SHOT PINS MAY BE USED FOR SHEAR LOADS AND THEY MAY BE USED IN TENSION TO SUPPORT LOADS LESS THEN 100 POUNDS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT, ECT. ANY SHOT ANCHORS MUST HAVE ICBO APPROVAL FOR THE TYPE OF CONCRETE USED ON THE JOB. SHOT PINS MAY NOT BE USED IN CONCRETE CURBS.

THE ALLOWABLE LOADS SHALL BE 100 POUNDS OR 80% OF ICBO APPROVED VALUES, WHICHEVER IS LESS. QUALIFICATION FOR USE OF ALL POWER ACTUATED TOOLS MUST MEET ANSI A10.3 STANDARD AS REQUIRED BY THE MANUFACTURER AND ALL OSHA REQUIREMENTS.

TESTING – THE OPERATOR, TOOL, AND FASTENER SHALL BE PRE-QUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TEST UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

MACHINE APPLIED NAILING

USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE OFFICE OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED. (REFERENCE – TITLE 24, PART 2, SEC. 2314A.3)

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ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30 2000

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DATE JAN 1 5 1998

STATE AGENCY APPROVAL

PROJECT
24'X40', ~~36'X40' & 48'X40'~~
MODULAR CLASSROOM BUILDING

TITLE
STRUCTURAL GENERAL NOTES

JOB #	
DATE	1-9-98
DRAWN BY	R.D.L.
SCALE	NONE
APPROVED	
REVISIONS	

SHEET NO.
S-1

GENERAL NOTES:

1R-27-8
WELDING REQUIREMENTS:

1. THE WELDING REQUIREMENTS IN AWS D1.1 (1994 EDITION) AS MODIFIED IN CBC, CHAPTER 22A, DIVISION VIII OR DIVISION IX, CURRENT EDITION SHALL BE STRICTLY ENFORCED. WELD ACCESS HOLES MAY BE LARGER THAN THE MINIMUM REQUIRED IN AWS D1.1, SECTION 3.2.5.

2. THE SPECIAL INSPECTION REQUIREMENTS IN AWS D1.1, SECTIONS 6.1 THROUGH 6.6 SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH A FABRICATION/ERECTION INSPECTOR AND THE OWNER TO EMPLOY A VERIFICATION INSPECTOR. VISUAL INSPECTION MEANS THAT THE INSPECTOR VISUALLY INSPECTS THE WELDING FOR ADHERENCE TO THE APPROVED WELD PROCEDURE SPECIFICATION STARTING WITH FIT-UP AND PROCEEDING THROUGH THE WELDING PROCESS (SEE AWS D1.1, SECTION 6.2 THROUGH 6.5 AND 8.15). RELIANCE ONLY UPON USE OF NON-DESTRUCTIVE EXAMINATION (NDE) AT THE END OF THE WELDING SHOULD BE AVOIDED. USE VISUAL INSPECTION IN CONJUNCTION WITH NDE FOR A SOUND WELD.

3. A WELDING PROCEDURE SPECIFICATION (WPS), WITH THE INFORMATION REQUIRED BY AWS D1.1, SECTION 5, SHALL BE SUBMITTED TO THE OWNER'S ENGINEER AND THE ENFORCEMENT AGENCY FOR ACCEPTANCE PRIOR TO THE START OF WORK. THE WPS SHALL BE USED IN PROVIDING THE REQUIRED SPECIAL INSPECTION. THE WPS SHALL CONTAIN THE ACTUAL VALUES TO BE USED FOR THE WELDING PARAMETERS AND VARIABLES SO THAT INSTRUCTION IS PROVIDED TO WELDERS; AS A MINIMUM THE WPS SHALL LIST THE POSITION, ELECTRODE TYPE AND SIZE, TRAVEL SPEED, ELECTRODE STICK-OUT, VOLTAGE AND AMPERAGE WITH ACCEPTABLE LIMITS, BEAD SIZE, WELD SEQUENCE, STRESS RELIEVING, AND OTHER PERTINENT DATA. A COPY OF THE FILLER METAL MANUFACTURER'S TECHNICAL DATA SHEET SHALL BE SUBMITTED WITH EACH WPS. WELDING CONSUMABLES MUST BE USED WITHIN THE POSITIONS, THICKNESSES, TEMPERATURES, AND OTHER PARAMETERS PROVIDED BY THE MANUFACTURER. FOR WPS'S WHICH REQUIRE QUALIFICATION, PROCEDURE QUALIFICATION RECORDS (PQRs) SHALL ALSO BE SUBMITTED FOR ACCEPTANCE. PRODUCTION WELDING HEAT INPUT SHALL BE LIMITED BASED ON THE PQR.

4. WPS'S FOR GROOVE WELDS JOINING THE BEAM FLANGES TO THE COLUMN SHALL MEET OR EXCEED THE WORKMANSHIP AND TECHNIQUE REQUIREMENTS OF AWS D1.1. WPS'S FOR FCAW SHALL BE QUALIFIED BY TESTING IN ACCORDANCE WITH AWS D1.1, SECTION 5. THE TESTS SHALL INCLUDE CHARPY V-NOTCH (CVN) TESTS OF THE WELD METAL (SEE ITEM 8 BELOW).

5. SHIELDED METAL ARC WELDING (SMAW) AND FLUX CORE ARC WELDING (FCAW), BOTH SELF SHIELDED (FCAW-SS) AND GAS SHIELDED (FCAW-G), ARE SUITABLE PROCESSES.

6. MAXIMUM DIAMETER OF ELECTRODES ALLOWED FOR SMAW IS PER AWS D1.1, SECTION 4.6. MAXIMUM DIAMETER OF ELECTRODES ALLOWED FOR FCAW IS PER AWS D1.1, SECTION 4.14 EXCEPT THAT THE MAXIMUM DIAMETER FOR THE FLAT AND HORIZONTAL POSITION SHALL BE LIMITED TO 7/64 INCH.

7. MAXIMUM WIDTH AND THICKNESS OF WELD LAYERS SHALL BE PER AWS D1.1, SECTION 4.6 FOR SMAW AND SECTION 4.14 FOR FCAW EXCEPT THAT: A) THE THICKNESS OF A ROOT LAYER SHALL NOT EXCEED 1/4" INCH; B) THE MAXIMUM WIDTH OF A LAYER IN ANY POSITION SHALL NOT EXCEED 5/8" INCH; AND C) THE WIDTH OF A WEAVE BEAD SHALL NOT EXCEED 3 TIMES THE ELECTRODE (WIRE) DIAMETER, D, WHEN D > 3/32 INCH, OR 5 TIMES THE ELECTRODE DIAMETER WHEN D ≤ 3/64 INCH.

8. THE FILLER METAL USED SHALL HAVE A NOTCH TOUGHNESS NOT LESS THAN OF 20 FT-LBS AS MEASURED BY A STANDARD CHARPY V-NOTCH (CVN) TEST, ASTM E-23. THE CVN TEST TEMPERATURE SHALL BE AT LEAST 0 DEGREES F. THE MINIMUM REQUIRED ENERGY ABSORPTION IS 20 FT-LBS AVERAGE. ONE SPECIMEN MAY BE LESS THAN THE MINIMUM AVERAGE, BUT NOT LESS THAN 15 FT-LBS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE APPLICABLE FILLER METAL SPECIFICATION REFERENCED IN AWS D1.1 AND MAY BE PERFORMED BY THE MANUFACTURER.

10. ALL WELDS SHALL BE STARTED AND ENDED WITH A FULL CROSS SECTION WELD FOR A MINIMUM LENGTH OF ONE INCH ON WELD TABS ("RUN OFF" TABS) EXCEPT AT ACCESS HOLES IN BEAM/GIRDER WEBS (SEE AWS D1.1, SECTION 3.12). ALL WELD TABS SHALL BE REMOVED, THE AFFECTED AREA GROUND SMOOTH AND MAGNETIC PARTICLE TESTED FOR DEFECTS. MINIMUM WELD TAB LENGTH SHALL BE THE GREATER OF ONE INCH OR 1.5 TIMES THE BEAM FLANGE THICKNESS, BUT NEED NOT EXCEED FOUR INCHES.

11. IF BACKING BARS ARE USED UNDER THE BOTTOM BEAM FLANGE TO COLUMN FLANGE CJP GROOVE WELD, THE BACKING BAR SHALL BE REMOVED, THE REMOVAL AREA GROUND TO SOUND, BRIGHT METAL AND THE AREA MAGNETIC PARTICLE TESTED FOR DEFECTS. A REINFORCING FILLET WELD, AT LEAST 1/4" OF THE BOTTOM FLANGE THICKNESS BUT NOT GREATER THAN 3/8" INCH, SHALL BE PLACED IN THIS LOCATION (SIMILAR TO AWS D1.1, FIGURE 2.4, NOTE J).

12. IF A BACKING BAR IS USED UNDER THE TOP BEAM FLANGE TO COLUMN CJP GROOVE WELD, AND IS NOT REMOVED, THE BACKING BAR SHALL BE ATTACHED TO THE COLUMN AND BEAM FLANGES BY EITHER A FILLET WELD ALONG THE COMPLETE BAR LENGTH ON THE UNDER SIDE OF THE BAR, OR BY A PARTIAL PENETRATION WELD FROM THE UNDERSIDE OF THE BAR, FOR THE FULL LENGTH OF THE BAR. OTHER METHODS OF WELDING THE BAR TO THE COLUMN AND BEAM MAY BE USED SUBJECT TO THE ENGINEERS APPROVAL.

13. WELD "DAMS" ARE NOT ALLOWED. WELD "DAMS" ARE WELD TABS NOT ALIGNED IN SUCH A MANNER TO PROVIDE AN EXTENSION OF THE JOINT PREPARATION PER AWS D1.1, SECTION 3.12. WELD "DAMS" ARE TYPICALLY PERPENDICULAR TO PROPER WELD TABS.

14. ALL TACK WELDS SHALL BE OF THE SAME QUALITY AS THE FINAL WELDS. THIS INCLUDES REQUIREMENTS FOR PREHEAT. ALL TACK WELDS NOT INCORPORATED INTO THE FINAL WELDS SHALL BE REMOVED.

18. MILL SCALE SHALL BE REMOVED FROM THE COLUMN IN THE AREA WHERE THE BEAM FLANGES WILL BE WELDED TO THE COLUMN.

19. CONTRACTOR SHALL SUBMIT TO THE ENGINEER AND THE ENFORCING AGENCY, FOR ACCEPTANCE, A QUALITY CONTROL OR INSPECTION PLAN THAT ADDRESSES ALL INSPECTION ISSUES, INCLUDING IN PROCESS AND FINAL INSPECTION THAT ARE ADDRESSED IN AWS D1.1.

20. THE QUALIFICATION OF THE CONTRACTOR'S INSPECTORS AND NDE PERSONNEL SHALL BE SUBMITTED TO THE ENGINEER AND ENFORCEMENT AGENCY FOR ACCEPTANCE.

21. IN CASES OF DIFFERENCES OF OPINION BETWEEN THE OWNER'S INSPECTOR AND THE CONTRACTOR'S INSPECTOR REGARDING CONFORMANCE OF A WELD WITH THE SPECIFICATIONS, THE ISSUE SHALL BE BROUGHT TO THE OWNER'S ENGINEER AND THE ENFORCEMENT AGENCY AS PART OF THE RESOLUTION PROCESS.

22. ALL GROOVE WELDS IN THE GIRDER-TO-COLUMN CONNECTION SHALL BE ULTRASONICALLY (UT) EXAMINED FOR THE FULL LENGTH. BACKING BAR REMOVAL AREAS AND FILLET WELDS ON CONTINUITY PLATES SHALL BE EXAMINED FOR THE FULL LENGTH BY THE MAGNETIC PARTICLE TESTING (MPT) METHOD.

23. SHEAR CONNECTION PLATES SHALL BE SIZED SO THAT THEY DO NOT INTERFERE WITH WELDERS ACCESS TO MAKE FLANGE WELDS OR TO PERFORM WORK WHICH IS REQUIRED TO INSTALL OR REMOVE BACKING OR TO PLACE REINFORCING FILLET WELDS.

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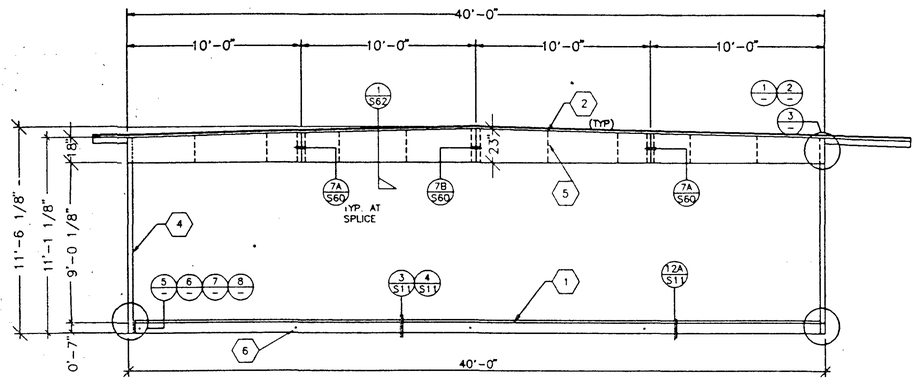
PROJECT
24'X40', 36'X40', & 48'X40'
MODULAR CLASSROOM BUILDING

TITLE
STRUCTURAL GENERAL NOTES

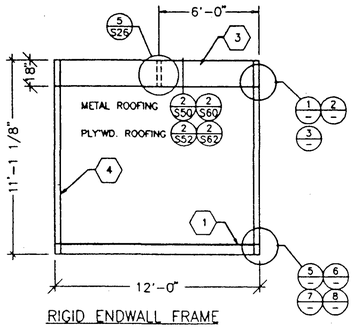
JOB #

DATE 12-8-97
DRAWN BY R.D.L.
SCALE NONE
APPROVED
REVISIONS

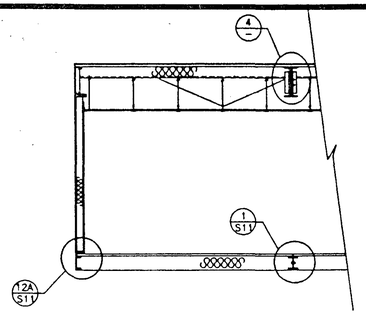
SHEET NO.
S-1A



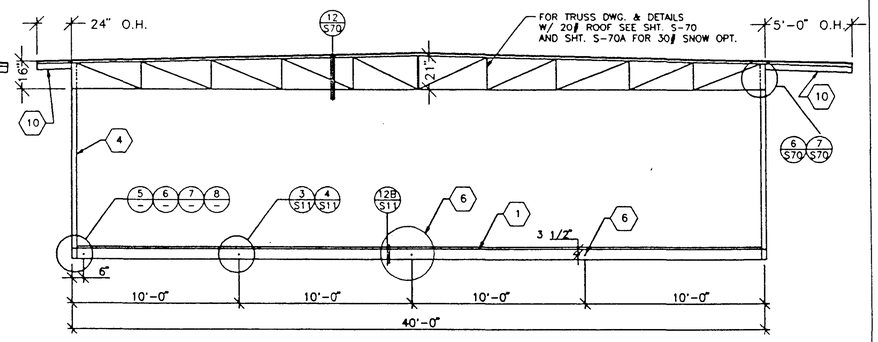
SIDEWALL STRUCTURAL ELEVATION



RIGID ENDWALL FRAME



MULTI WIDE CROSS SECTION



LONGITUDINAL CROSS SECTION

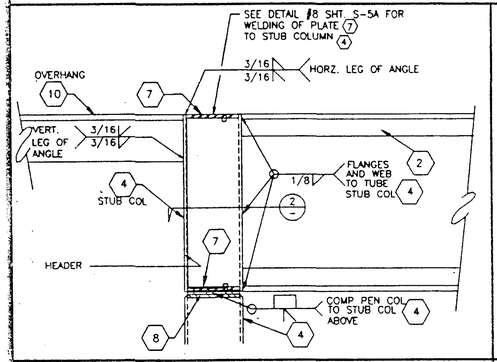
STRUCTURAL CROSS SECTIONS (COLD ROLLED)

SCALE 1/4" = 1'-0"

KEYNOTES

NOTES

1. [7"x 9.8 lb PERIMETER FLOOR FRAME
2. [18 X 23 X 18 X 3 1/2 X 10 GA. BEAM
3. [18 X 3 1/2 12 GA. HEADER
4. 3 1/2"x 3 1/2"x 3/16" TUBE STEEL COLUMN AT 20# ROOF
   3 1/2"x 3 1/2"x 1/4" TUBE STEEL COLUMN AT 30# ROOF
5. 3/16" x FULL HEIGHT STIFFENER IN CHANNEL AT PURLIN LOCATION, SEE SHEET S-5
6. 5/8" MACHINE BOLT @ MODULE CONNECTION LOCATIONS AT 8 FT. O.C. AT ROOF AND 10 FT. O.C. AT FLOOR (TYPE 1)
7. 1/4" PLATE FILLED INSIDE TUBE COLUMN AND WELD IN PLACE
8. 3/8" CAP PLATE FITTED INSIDE TUBE COLUMN AND WELD IN PLACE
9.
10. 4 x 3 x 3/8" AT PERIMETER ROOF OVERHANG FOR OPTIONAL 30 PSF ROOF



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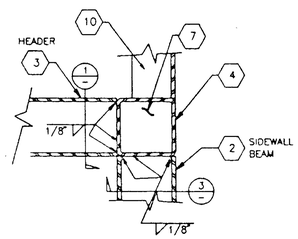

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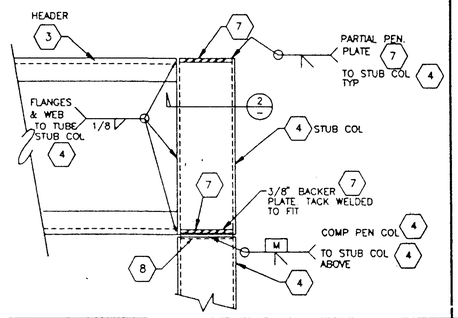

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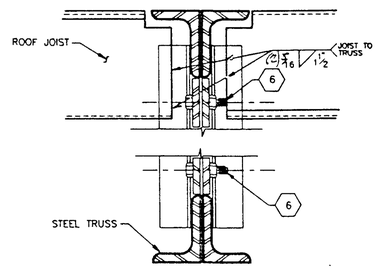
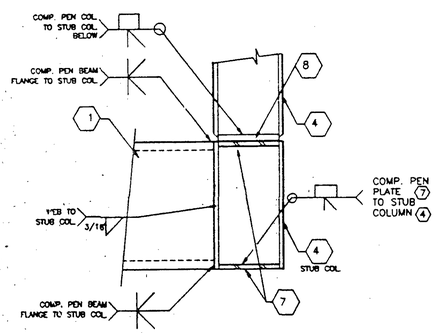
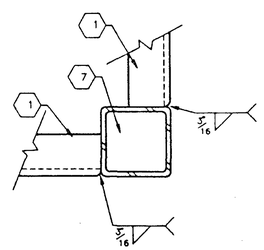


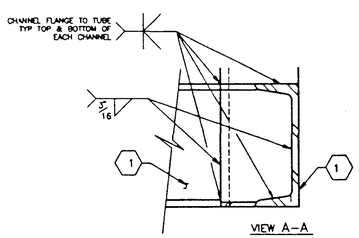
4 MOD. LINE @ ROOF



5 COLUMN CONN. @ FLOOR

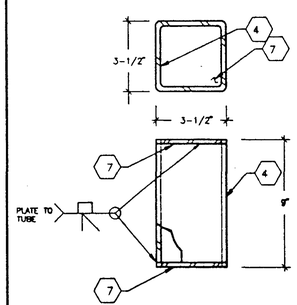


6 CORNER CONNECTION @ FLOOR



VIEW A-A

7 STUB TUBE TO FLOOR FRAME



8 TUBE PLATE WELDMENT

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AC RS SS
DATE JAN 15 1998

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AC FLS SS
DATE SEP 27 2000

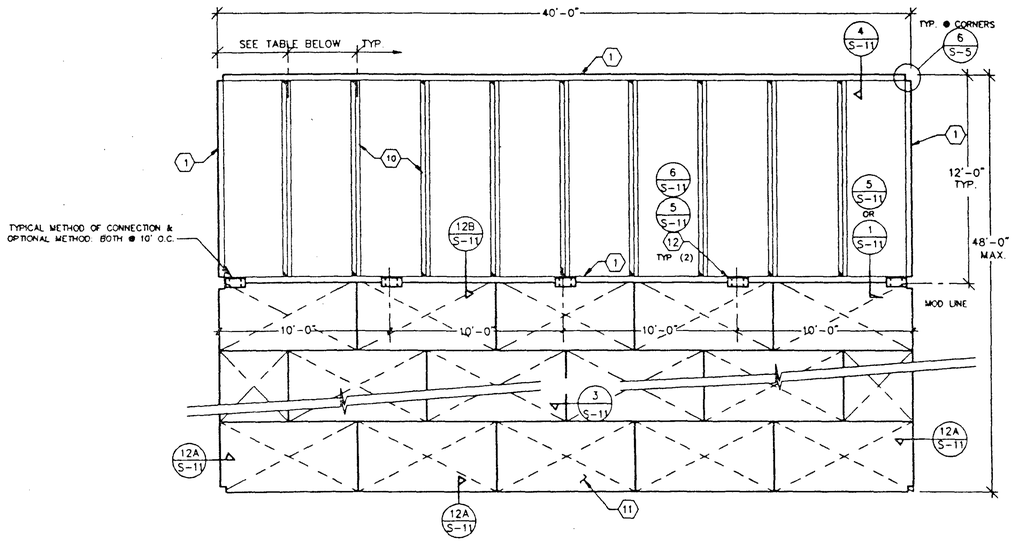
PROJECT
24'X40', ~~36'X40'~~, & ~~48'X40'~~
MODULAR CLASSROOM BUILDING

TITLE
DOUBLE SLOPE COLD ROLLED/
TRUSS RIGID FRAME

JOB #

DATE 1-9-98
DRAWN BY R.D.L.
SCALE NONE
APPROVED
REVISIONS

SHEET NO.
S-5A



FLOOR FRAMING PLAN

NOTES

1. [7"x 9.8 lb STEEL CHANNEL PERIMETER FRAME
10. Z 7"x 1.5 W X1" LIP X 11 GAGE STEEL FLOOR JOIST
11. FLOOR SHEATHING- 1-1/8" APA RATED STURD-I-FLOOR OR EQUAL, P.S. 1-83 T & G EDGES, 48" SPAN RATING; ATTACH TO STEEL FRAMING WITH .170/.192 PIN AT 10" OC FIELD AND BOUNDARY 6" OC.
OR #10-24 X 1 3/4 SELF TAP SCREW @ 6" O.C. BOUNDARY & EDGES AND 10" O.C. FIELD. NOTE: PROVIDE FIELD NAILING AT 6" O.C. WHERE FLOOR JOIST ARE AT 48" O.C.
12. 6" x 14" x 12 Ga. PLATE WITH (6) #10-34 X 1 3/4 X 2-1/2" FLAT HEAD SELF TAP SCREWS INTO STEEL CHANNEL FLOOR FRAME (TYPE II)

TABLE 1

FLOOR LOAD	JOIST SPACING	
50 PSF	48" O.C.	
~~50 + 20 PSF~~	~~32" O.C.~~	
~~100 PSF~~	~~24" O.C.~~	
~~50 PSF + 20 PSF~~	~~16" O.C.~~	~~OPTIONAL STIFFENED FLOOR~~
~~125 PSF~~	~~16" O.C.~~	

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APP03- 1 1 2 3 1 7
AC FLS SS
DATE FEB 7 2001

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2001

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4 100118
AC FLS SS
DATE JAN 1 5 1998

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
100073
AC FLS SS
DATE JAN 1 5 1998

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03-
AC FLS SS
DATE SEP 2 7 2000

PROJECT
~~24'X40', 36'X40', & 48'X40'~~
MODULAR CLASSROOM BUILDING

TITLE
FLOOR CONSTRUCTION

JOB #

DATE 12-8-97

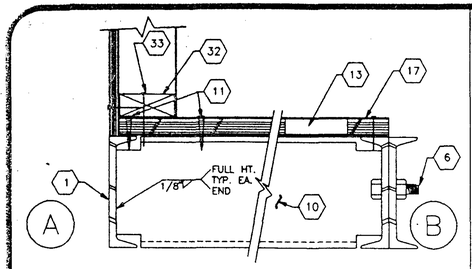
DRAWN BY R.D.L.

SCALE NONE

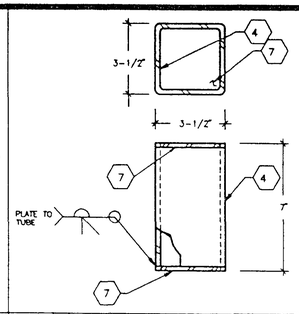
APPROVED

REVISIONS

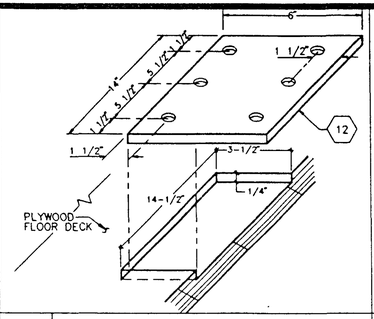
SHEET NO.
S-10



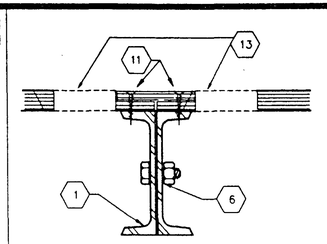
12 PERIMETER FLOOR



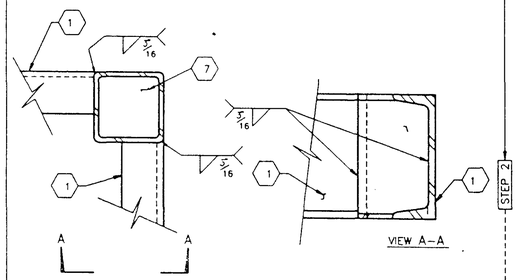
8 TUBE PLATE WELDMENT



5 ALT. MOD CONN. PLATE TYPE II



1 TYP. MOD CONN. @ FLR. TYPE I



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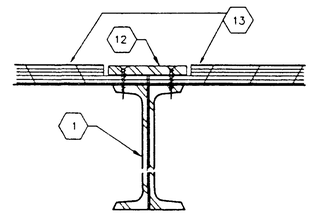
9 POCKET TUBE TO FLOOR FRAME



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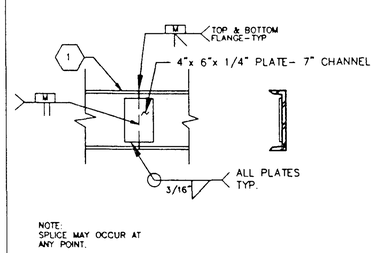
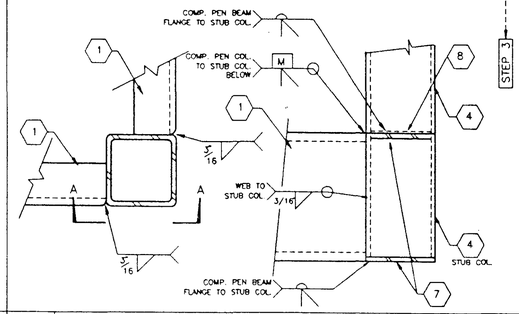
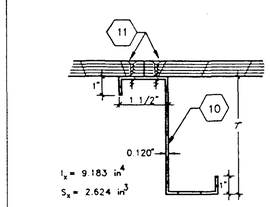


2 CHANNEL SPLICE



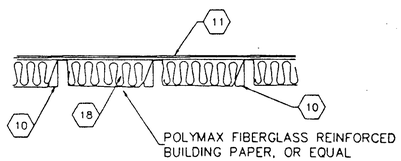
10 COLUMN CONN. @ FLOOR

7



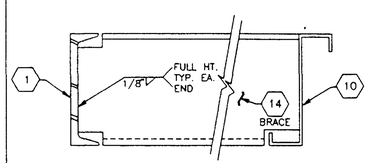
FLOOR JOIST

3 TYPICAL JOISTS



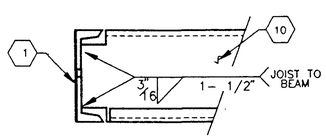
15 INSULATION @ FLOOR

11



BRACE AT FLOOR

BRAKE AT FLOOR



FLOOR JOIST TO CHANNEL

4 FLOOR JOIST DETS.

KEYNOTES

NOTES

1. [7"x 9.8 lb PERIMETER FLOOR FRAME
6. 5/8" MACHINE BOLT @ MODULE CONNECTION LOCATIONS AT 8 FT. O.C. AT ROOF AND 10 FT. O.C. AT FLOOR
10. Z 7" X 11 GA. FLOOR JOIST
11. FLOOR SHEATHING- 1-1/8" APA RATED STURD-I-FLOOR OR EQUAL, P.S. 1-83 T & G EDGES, 48" SPAN RATING, ATTACH TO STEEL FRAMING WITH .170/.192 PIN OR #10-24 X 1 3/4 SELF TAP SCREW @ 6" O.C. BOUNDARY & EDGES AND 10" O.C. FIELD
12. 6" x 14" x 12 Go. PLATE WITH (6) #10-34 x 1 3/4" FLAT HEAD SELF TAP SCREWS INTO STEEL CHANNEL FLOOR FRAME (TYPE II)
13. 5" DIA. HOLE AT BOLT LOCATION. (CONN. TYPE 1)
14. 7"x 11 Go. STEEL BRACE WELDED TO PERIMETER FRAME AND FLOOR JOIST.
15. N/A
16. N/A
17. AT MODULE JOINT TAKE PLYWOOD TO EDGE OF CHANNEL. AT PERIMETER, HOLD PLYWOOD BACK AS INDICATED.
18. R-11 INSULATION ON 'SEAL TITE' TYPE HW POLYMAX UNDERBELLY OR EQUAL WITH BIDIRECTIONAL POLYESTER FIBERS.
32. 2X4 BOTTOM PLATE
33. 131 X 3 1/4@ NAIL (8d NAIL) AT 8" O.C.

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

PC-100073

ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3402 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2000

STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC — FLS — SS
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STATE AGENCY APPROVAL
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AC — FLS — SS
DATE FEB 7 2001

STATE AGENCY APPROVAL
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4 100113
AC — FLS — SS
DATE JAN 15 1998

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 —
AC — FLS — SS
DATE SEP 2 2009

PROJECT
24'X40', 36'X40', & 48'X40'
MODULAR CLASSROOM BUILDING

TITLE
FLOOR CONSTRUCTION DETAILS

JOB #

DATE 1-9-98

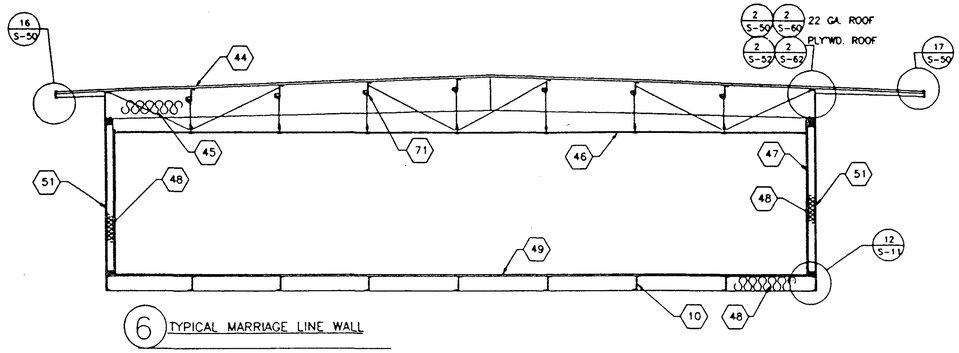
DRAWN BY R.D.L.

SCALE NONE

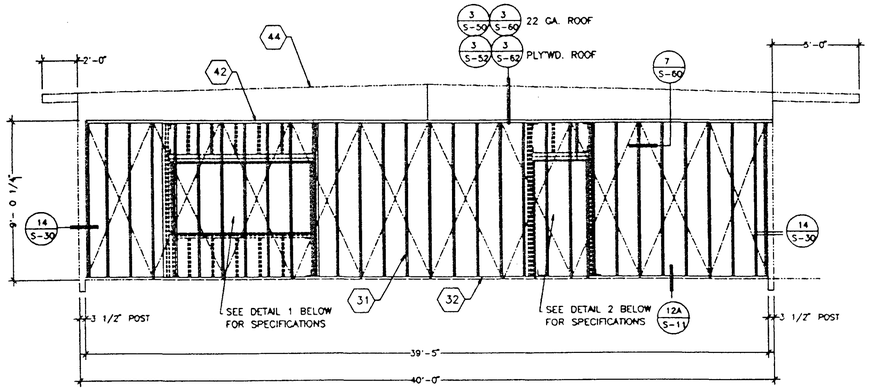
APPROVED

REVISIONS

SHEET NO.
S-11

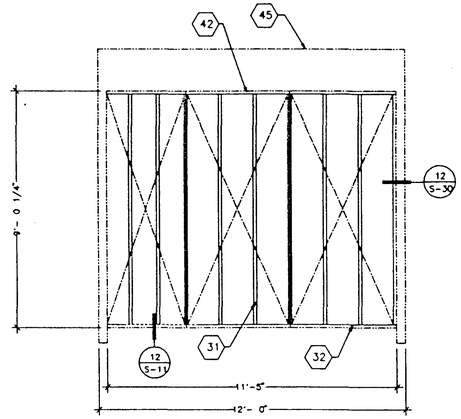


6 TYPICAL MARRIAGE LINE WALL



4 TYPICAL SIDEWALL

NOTE:
DOORS AND WINDOWS MAY BE INSTALLED IN SIDEWALL AT ANY POINT IN ANY COMBINATION.



5 TYPICAL BLANK WALL

KEYNOTES

10 STEEL FLOOR JOIST- SEE SHEET S-11

31 STUDS- 2x4 H.F. STUD GRADE @ 16" O.C.

32 TOP AND BOTTOM PLATE- 2x4 H.F. STD & BETTER.

34 FRAME FOR 4'-0"x 4'-0", WINDOW:
USE (2) FULL HEIGHT HEM FIR 2x4 STUDS WITH (1) 2x4 TRIMMER BOTH SIDES, (2) 2x4 FLAT FOR WINDOW SILL AND (2) 2x4 FLAT FOR HEADER.

35 FRAME FOR 8'-0"x 4'-0", WINDOW:
USE (3) FULL HEIGHT HEM FIR 2x4 STUDS WITH (1) 2x4 TRIMMER BOTH SIDES, (2) 2x4 FLAT FOR WINDOW SILL AND (3) 2x4 FLAT FOR HEADER.

36 FRAME FOR 3'-0"x 6'-8" OR 7'-0" DOOR. USE (2) FULL HEIGHT 2x4 JAMB STUDS WITH (1) 2x4 TRIMMER BOTH SIDES, & (2) 2x4 FOR HEADER.

37 NAIL THRU VERTICAL STUD INTO HORIZONTAL HEAD OR SILL WITH MIN. (4) .131 X 3 1/4" NAILS PER CONNECTION. TYPICAL AT CORNERS OF ALL OPENINGS.

38 4x4 H.F. #2 POST

39 SEE SHEET G-1 FOR A/C SIZE AND TONAGE.

40 TYPICAL 'SIMPSON' A35 CLIPS (4) PLACES TO TOP AND BOTTOM PLATES.

41 TYPICAL 'SIMPSON' A35 CLIPS (4) PLACES TO WINDOW SILL AND HEADER OR (2) PLACES TO DOOR HEADER.

42 2x4 PLATE- H.F. STD. GRD. OR BETTER.

43 FIRE BLOCKING. SEE SECTION 708 OF 1994 C.B.C.

44 ROOF SHEATHING. SEE ROOF SECTION

45 R-19 FIBERGLASS INSULATION.

46 SUSPENDED CEILING

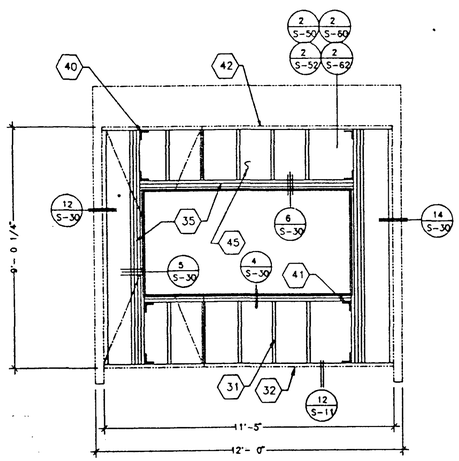
47 TYPICAL INTERIOR FINISH- SEE SHEET G-1

48 R-11 FIBERGLASS INSULATION.

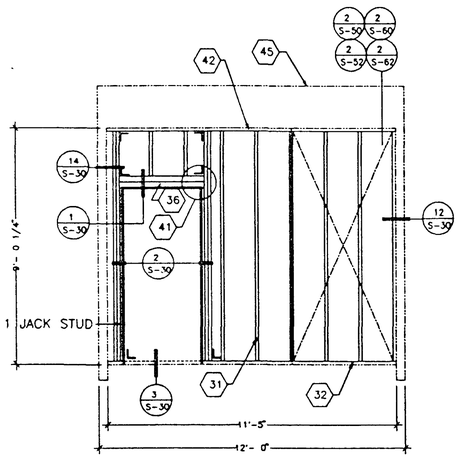
49 PLYWOOD FLOOR SHEATHING- SEE SHEET S-11

51 PLYWOOD SIDING/SHEATHING- SEE SHEET G-1 FOR MATERIAL. NAIL SIDING WITH CORROSION RESISTANT 8d NAILS @ 6" BOUNDARY & EDGES, 12" FIELD. OR KNURLED PIN #43-31208 BY DUO-FAST, OR KNURLED AKN BY ET&F OR EQUAL FOR METAL STUD CONSTRUCTION.

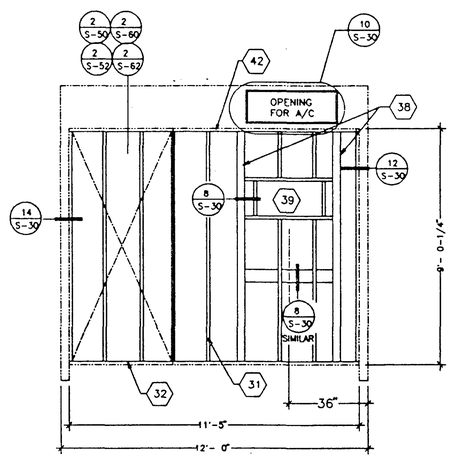
71 STEEL ROOF JOIST- SEE SHEET S-40



1 TYPICAL ENDWALL WITH WINDOW



2 TYPICAL ENDWALL WITH DOOR



3 TYPICAL ENDWALL WITH A/C

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ARCHITECT APPROVAL

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LICENSE EXPIRES 6-30-2000

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

PC-

PROJECT '24'X40', ~~36'X40', & 48'X40'~~ MODULAR CLASSROOM BUILDING

TITLE TYPICAL EXTERIOR WALL CONSTRUCTION FOR SINGLE OR DOUBLE ROOF PITCH

JOB #

DATE 12-8-97

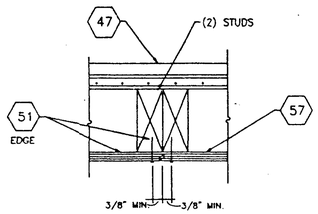
DRAWN BY R.D.L.

SCALE NONE

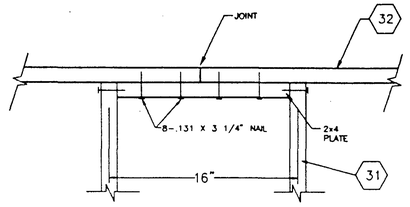
APPROVED

REVISIONS

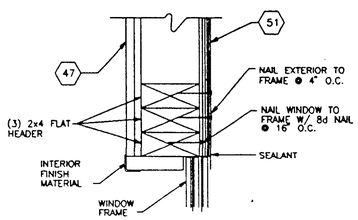
SHEET NO. S-20



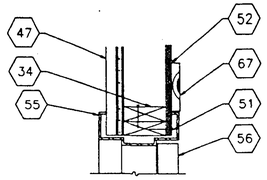
16 PANEL JOINT



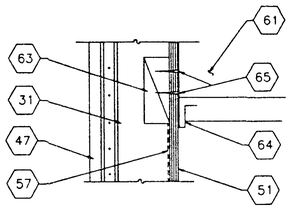
11 TOP PLATE SPLICE



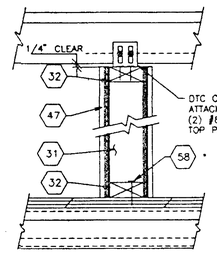
6 WINDOW HEADER



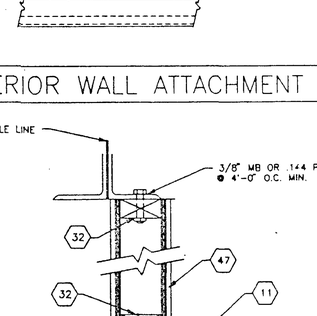
1 DOOR HEAD



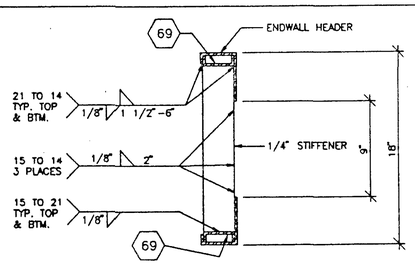
17 A/C BOTTOM BRACKET



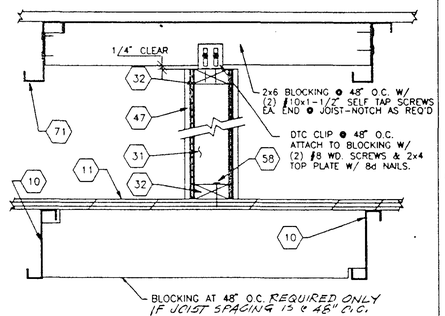
18 INTERIOR WALL ATTACHMENT



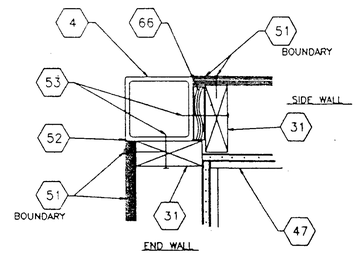
19 INT. WALL ATTACH @ MOD LINE



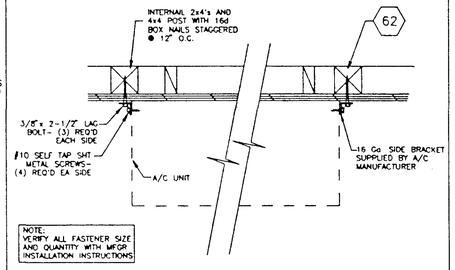
20 A/C OPENING IN HEADER



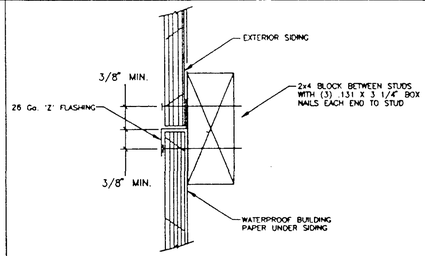
13 INTERIOR WALL ATTACHMENT



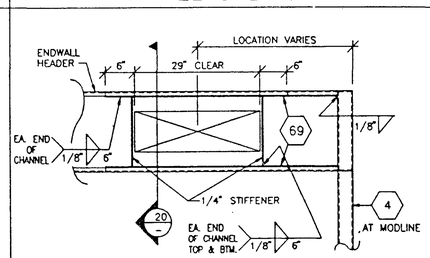
14 COLUMN AT CORNER



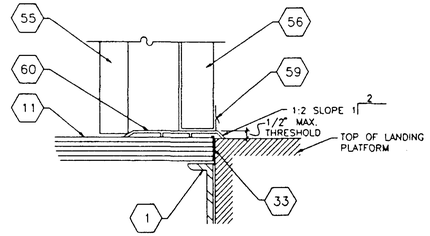
8 A/C SIDE BRACKETS



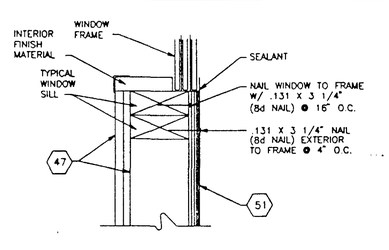
9 PANEL SPLICE



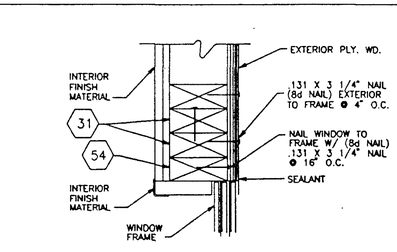
10 A/C OPENING IN HEADER



3 THRESHOLD



4 WINDOW SILL



5 WINDOW JAMB

KEYNOTES

1. STEEL FLOOR CHANNEL
4. STEEL TUBE COLUMN - SEE SHEET S-5
10. STEEL FLOOR JOIST
11. FLOOR SHEATHING
31. 2x4 FULL HT STUDS
32. 2x4 TOP & BOTTOM PLATE, NAIL TO PLYWOOD
33. GALV METAL FLASHING
34. HEADER - (2) 2x4 H.F. STD GRADE FLAT
47. TYPICAL INTERIOR FINISH - SEE SHEET G-1 FOR MATERIALS
51. EXTERIOR PLYWOOD SIDING/SHEATHING - NAIL W/ CORROSION RESISTANT (.131 X 3 1/4" NAILS) 8d BOX NAILS AT 6" O.C. BOUNDARY & EDGES, AND 12" O.C. FIELD WITH MOISTURE BARRIER. SEE SHEET G-1 FOR MATERIALS.
52. SEALANT
53. 'HILTI' DN57-P8 @ 24" O.C. (OR RAMSET 1514 SD) OR .171 PIN AT 24" O.C.
54. 2x4 TRIMMER
55. HOLLOW METAL DOOR FRAME
56. METAL DOOR
57. WATERPROOF MEMBRANE
58. 16d NAIL OR .144 PIN AT 16" O.C.
59. DOOR BOTTOM W/ WEATHER STRIP
60. ALUM THRESHOLD
61. WALL MTD. A/C
62. 4x4 H.F. STUD GRAD POST
63. 2X6 BLOCK BETWEEN STUDS, ATTACH TO STUDS W/ (2) 16d BOX NAILS EA. END
64. 11 GA x 24" LONG STEEL BOTTOM BRACKET
65. 3/8" DIA x 2-1/2" LAG BOLTS
66. 3/4" SPACER-PLYWOOD
67. 1x4 TRIM (OPTIONAL)
68. VINYL WRAPPED CLOSE-OFF BATT. ATTACH W/ #8x2 1/4" PAN HEAD WOOD SCREWS STAGGERED 24" O.C. AND (2) SCREWS TOP AND BOTTOM
69. 3 1/4"x1"x4'-6" [x 10 GA. CHANNEL TOP & BOTTOM.
71. ROOF JOIST, SEE SHEET S-40

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

PC-100073

ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP
LICENSE EXPIRES 6-30-2000

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 03 1 1 2 3 1 7
AC FLS SS
DATE MAR 0 5 2003

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DATE FEB 7 2003

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OFFICE OF REGULATION SERVICES
4 100118 SS
AC FLS
DATE JAN 1 5 1999

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4 100073 SS
AC FLS
DATE JAN 1 5 1999

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DIV. OF THE STATE ARCHITECT
APP# [illegible]
AC
DATE [illegible]

PROJECT
24'X40', ~~36'X40'~~, & ~~48'X40'~~
MODULAR CLASSROOM BUILDING

TITLE
GENERAL INTERIOR AND EXTERIOR WALL CONTRUCTION DETAILS

JOB #

DATE 1-9-98

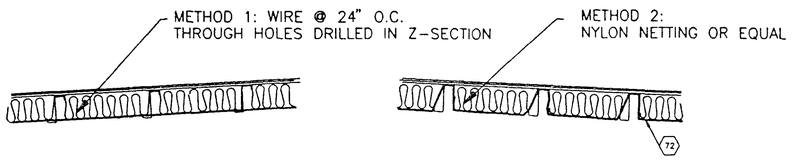
DRAWN BY R.D.L.

SCALE NONE

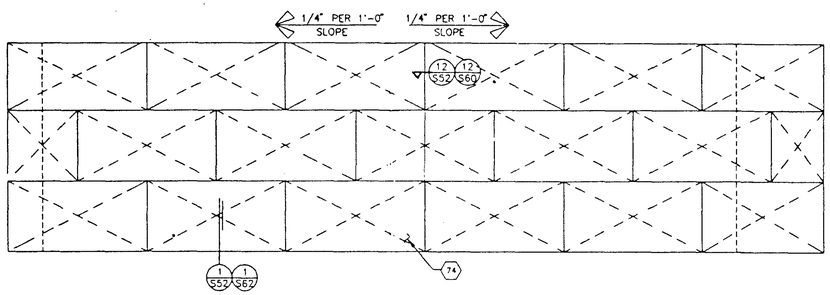
APPROVED

REVISIONS

SHEET NO.
S-30

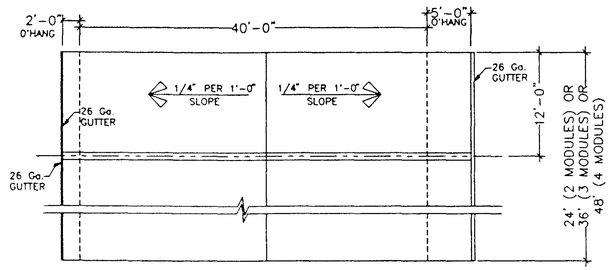


INSULATION @ ROOF



PLYWOOD DECKING LAYOUT

DUAL PITCH SLOPE SHOWN



DOUBLE SLOPE ROOF PLAN

KEYNOTES

2. [18"x 18-23 X 3 1/2" X 10 Ga.
3. [18"x3 1/2x12 Ga. RFC STEEL ROOF HEADER.
71. ⌊ 6"x 14 Ga. STEEL ROOF JOIST @ 48" O.C. FOR 20 PSF ROOF LL AND 32 O.C. FOR 30 PSF ROOF LL OR ⌊ 7"x1 1/2"x 11 GA. FOR 30 PSF ROOF LL W/ JOIST AT 48" O.C.
72. 2"x 20 Ga. STRAPS W/ 3" MIN. 1/8" FILLET WELD EACH END TO ROOF BEAM/HEADER TYP.
73. 1 1/2"x1 1/2"x3/16" BRACE
74. ROOF SHEATHING- 3/4" C-D EXPOSURE 1, 48/24 SPAN RATING, PS 1-83, APA RATED OR EQUAL, SQUARE EDGE W/ PLYWOOD CLIPS @ 16" O.C. LONG EDGES ON UNSUPPORTED EDGES; ATTACH TO STEEL FRAMING WITH #10-24 X 1 3/4 SELF TAP SCREWS @ 6" O.C. BOUNDARY & EDGES AND 6" O.C. FIELD WHERE JOIST ARE AT 48" O.C. AND 12" O.C. WHERE JOIST ARE AT 32" O.C.
75. 22 GAGE GALVANIZED METAL ROOFING. SEE SHEET S-50 & S-60
76. 16/21/16 STEEL TRUSS. SEE SHEET S-70
77. NYLON NETTING FOR INSULATION SUPPORT OR EQUAL.

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PROJECT
24'X40', ~~36'X40', & 48'X40'~~
MODULAR CLASSROOM BUILDING

TITLE:
GENERAL ROOF CONSTRUCTION LAYOUT

JOB #

DATE 1-9-98

DRAWN BY R.D.L.

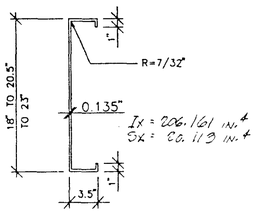
SCALE NONE

APPROVED

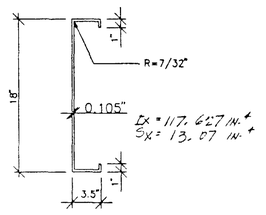
REVISIONS

SHEET NO.
S-40

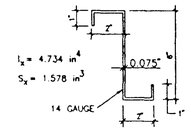
2 [18" x 3 1/2" x 10 GA. CHANNEL (BEAM)



3 [18" x 3 1/2" x 12 GA. CHANNEL (HDR)

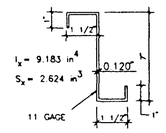


7 6" x 14 GA. ROOF JOIST

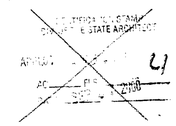


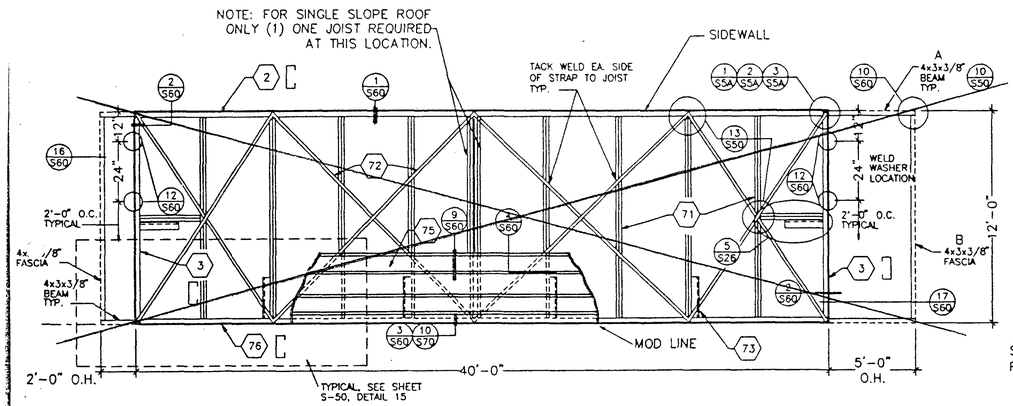
20 PSF ROOF

7 7" x 11 GA. ROOF JOIST



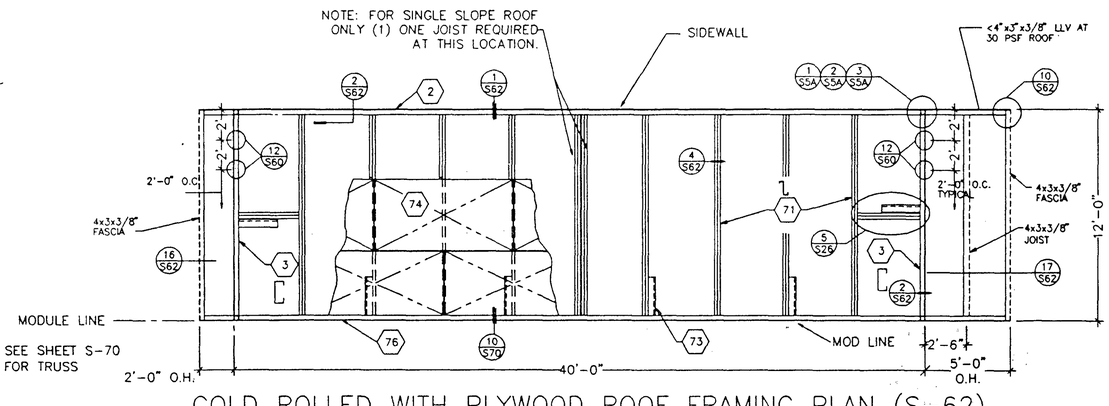
30 PSF ROOF





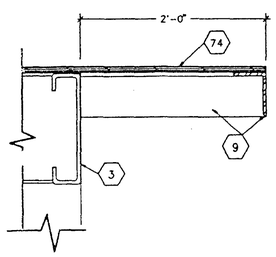
COLD ROLLED WITH 22 GA. METAL ROOF FRAMING PLAN (S-60)

~~METAL ROOF TO BE APPLIED PER APPROVED & LISTED MANUFACTURER'S INSTALLATION INSTRUCTIONS~~ ~~DOUBLE SLOPE~~

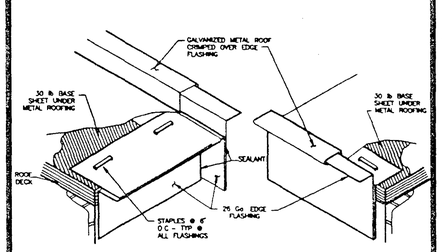


COLD ROLLED WITH PLYWOOD ROOF FRAMING PLAN (S-62)

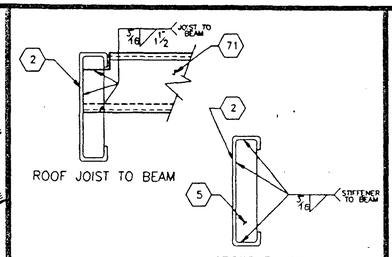
26 OR 30 GAGE BUILT UP ROOF TO BE APPLIED & LISTED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS DOUBLE SLOPE



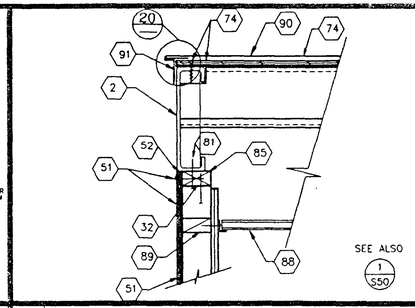
16 | 2' OVERHANG



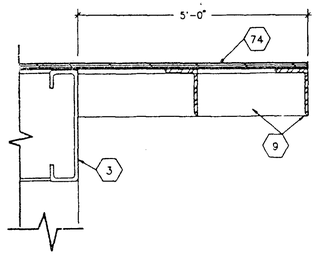
11 | METAL ROOF @ CORNER



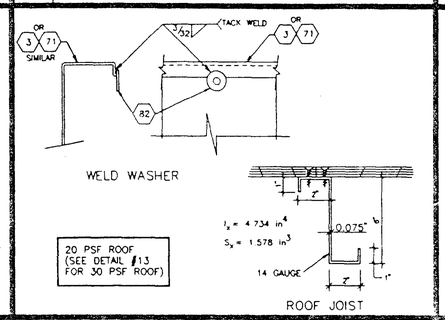
6 | ROOF JOIST DETAILS



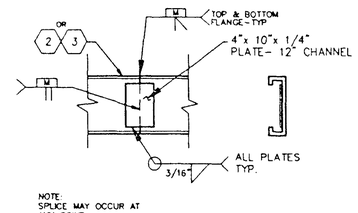
1 | ROOF AT SIDEWALL



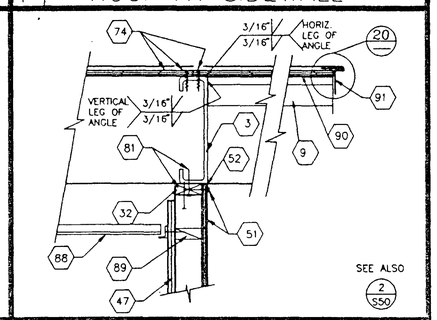
17 | 5' OVERHANG



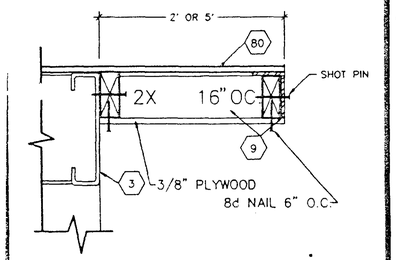
12 | ROOF JOIST (EDGE COND.)



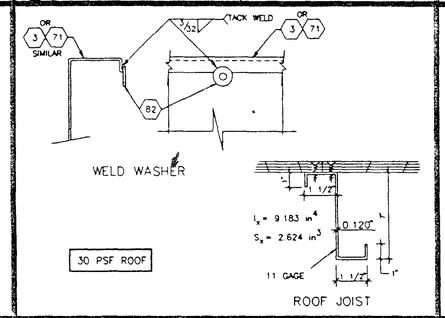
7 | CHANNEL SPLICE



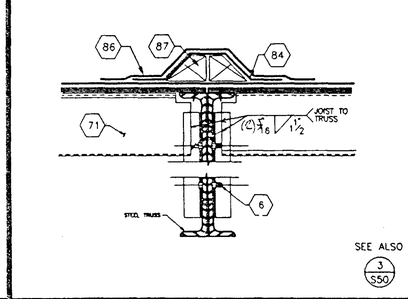
2 | ROOF AT ENDWALL



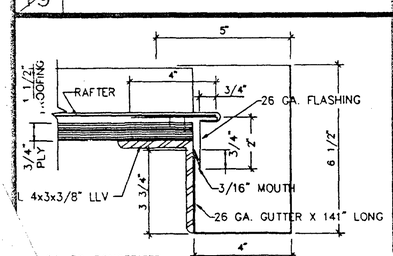
18 | 2' OR 5' OVERHANG OPTIONAL SOFFIT



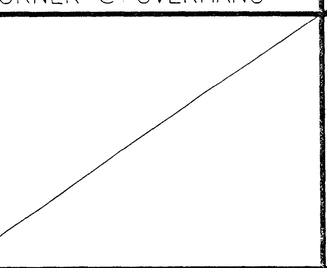
13 | ROOF JOIST (EDGE COND.)



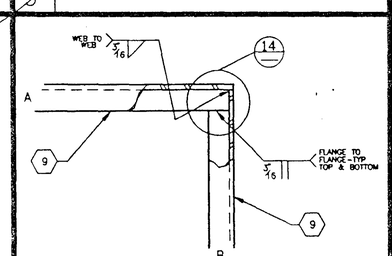
3 | MOD. LINE @ ROOF (BUILT UP)



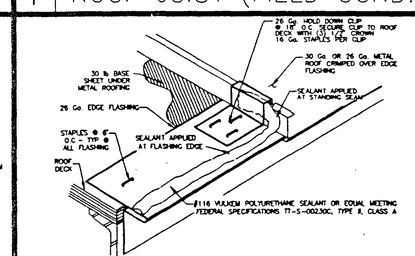
20 | FASCIA



14 | CORNER @ OVERHANG



10 | ANGLE TO ANGLE @ O.H



5 | METAL ROOF @ PERIMETER

KEYNOTES

2. 10 GA. STEEL ROOF BEAM
3. 12 GA. STEEL ROOF HEADER
5. 3/16" FULL HEIGHT STIFFENER @ 4'-0" O.C. OR AT ROOF JOIST.
6. 5/8" MACHINE BOLT AT MODULE LINE.
9. ¶ 4" X 3" X 3/8" @ PERIMETER OF ROOF OVERHANG, OR USE ¶ 5" X 3" X 3/8" LLV OUTRIGGER BEAM AT 30 PSF SNOW
32. 2X4 D.F. TOP PLATE - INTERNAL TO 2X4 CONT. PLATE W/ .131 X 3 1/4" BOX NAILS @ 8" O.C.
47. INTERIOR FINISH - SEE SHEET G-1
51. TYP. EXTERIOR FINISH - SEE SHEET G-1.
71. 6" X2" W X 1" LIP X 14 GA. ROOF JOIST
74. 30 GAGE, 26 GAGE OR BUILD UP ROOF OVER ROOF SHEATHING - 3/4" C-D EXPOSURE 1, 48/24 SHAP RATING, PS 1-74, APA RATED OR EQUAL, SQUARE EDGE W/ PLYWOOD CLIPS @ 16" O.C. ON UNSUPPORTED EDGES, ATTACH TO STEEL FRAMING WITH #10 X 2" SELF TAP SCREWS OR .170 PIN @ 6" O.C. BOUNDARY & EDGES AND 6" O.C. FIELD WHERE JOIST ARE AT 48" O.C. & 12" O.C. WHERE JOIST ARE AT 32" O.C.
81. 2X4 H.F. CONT. PLATE- ATTACH TO CHANNEL W/ 0.170# SHOT PIN @ 16" O.C. OR 3/8" BOLT AT 24" O.C. MIN.
84. FIBERGLASS BASE 12" WIDE NAIL EDGE 12" O.C.
86. MINERAL SURFACE CAP SHEET 16" WIDE SET IN COLD PROCESS CEMENT, NAIL AS REQUIRED, SPOT COAT NAIL HEADS.
87. CONTINUOUS WOOD CANT STRIP, EXTEND ROOFING TO TOP OF CANT STRIP
88. SUSPENDED CEILING
89. 2X4 BLOCK @ CEILING LINE
90. ROOFING MATERIAL 26 GAGE, 30 GAGE OR BUILT UP ROOFING
91. 26 GA. FLASHING

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APP03
AC FLS SS
DATE SEP 27 2004

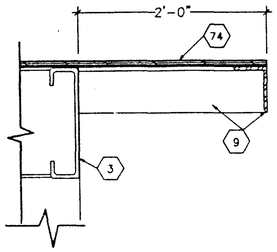
PROJECT
24'X40', 36'X40', & 48'X40'
MODULAR CLASSROOM BUILDING

TITLE
ROOF CONSTRUCTION DETAILS
FOR 'C' CHANNEL AND PLYWOOD

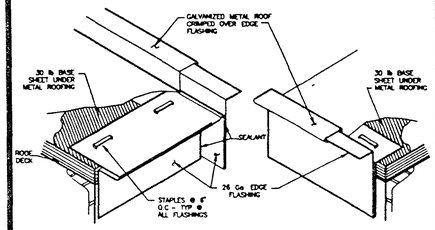
JOB #

DATE 1-9-98
DRAWN BY R.D.L.
SCALE NONE
APPROVED
REVISIONS

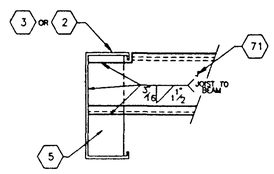
SHEET NO.
S-52



16 2' OVERHANG

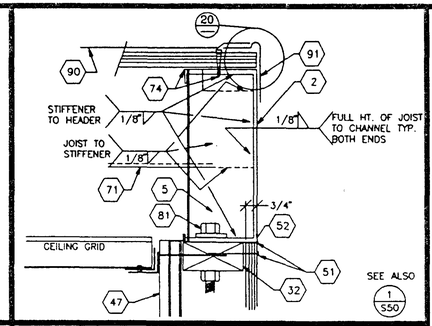


11 METAL ROOF @ CORNER



ROOF JOIST TO BEAM OR HEADER

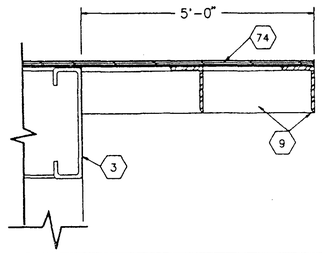
6 ROOF JOIST DETAILS



1 ROOF AT SIDEWALL

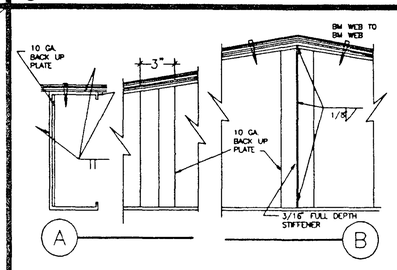
KEYNOTES

2. 10 GA. STEEL ROOF BEAM
3. 12 GA. STEEL ROOF HEADER
5. 3/16" FULL HEIGHT STIFFENER @ 4'-0" O.C. OR AT ROOF JOIST
6. 5/8" MACHINE BOLT @ MODULE CONNECTION
9. L 4"x 3"x 3/8" @ PERIM. OF ROOF OVERHANG, L 4"x 3"x 3/8" LLV AT 30 PSF SNOW.
32. 2 x 4 TOP PLATE OR BOTTOM PLATE
47. TYPICAL INTERIOR FINISH - SEE SHEET G-1
52. SEALANT
71. ROOF JOIST
74. ROOF SHEATHING - 3/4" C-D EXPOSURE 1, 48/24 SPAN RATING, PS 1-74, APA RATED OR EQUAL, SQUARE EDGE W/ PLYWOOD CLIPS @ 16" O.C. ON UNSUPPORTED EDGES, ATTACH TO STEEL FRAMING WITH #10 x 2" SELF TAP SCREWS OR .170 PIN @ 6" O.C. BOUNDARY & EDGES AND 6" O.C. FIELD WHERE JOIST ARE AT 48" O.C. AND 12" O.C. WHERE JOIST ARE AT 32" O.C.
81. 1/2" MACHINE BOLT @ 24" O.C. MIN. OR .170 PIN AT 16" O.C.
83. TYPICAL EXTERIOR FINISH - SEE SHEET G-1
84. FIBERGLASS BASE 12" WIDE. NAIL EDGES 12" O.C.
86. MINERAL SURFACE CAP SHEET 18" WIDE SET IN COLD PROCESS CEMENT, NAIL AS REQUIRED, SPOT COAT NAIL HEADS.
87. CONTINUOUS WOOD CANT STRIP. EXTEND ROOFING TO TOP OF CANT STRIP.
90. ROOFING MATERIAL 26 GAGE, 30 GAGE OR BUILD UP ROOF
91. GALVANIZED 26 GAGE METAL FLASHING.

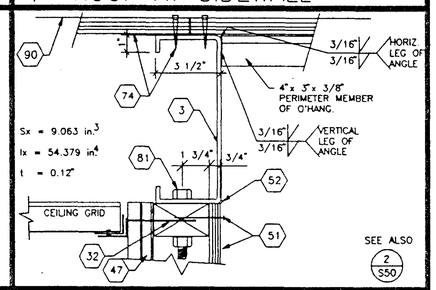


17 5' OVERHANG

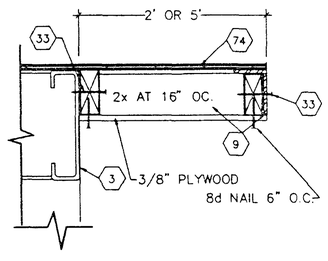
12



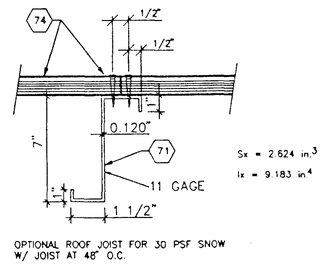
7 PLYWOOD ROOF AT BEAM



2 ROOF AT ENDWALL



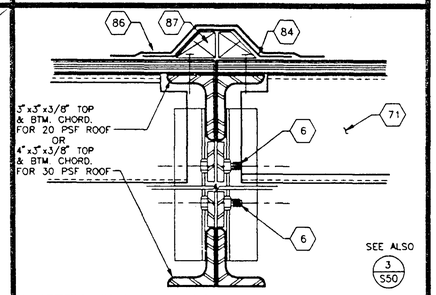
18 2' OR 5' OVERHANG OPTIONAL



OPTIONAL ROOF JOIST FOR 30 PSF SNOW W/ JOIST AT 48" O.C.

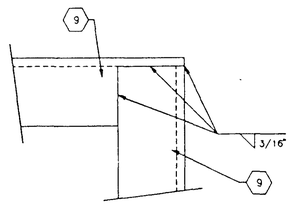
13 ROOF JOIST (EDGE COND.)

8



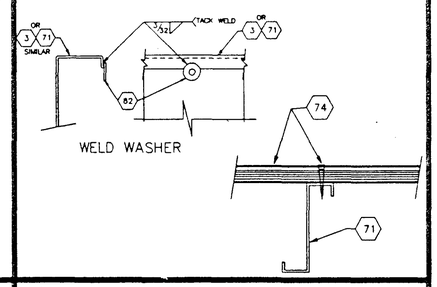
3 MOD. CONN. AT ROOF

19

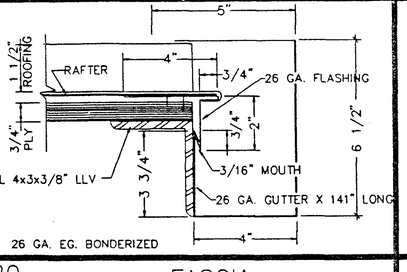


14 CORNER @ OVERHANG

9

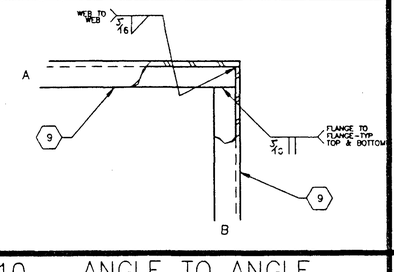


4 ROOF JOIST (FIELD COND.)

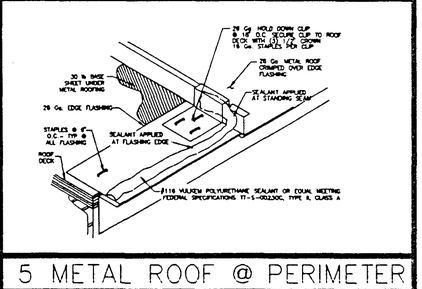


20 FASCIA

15



10 ANGLE TO ANGLE



5 METAL ROOF @ PERIMETER

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PROJECT
24'X40', ~~36'X40', & 48'X40'~~
MODULAR CLASSROOM BUILDING

TITLE
ROOF CONSTRUCTION DETAILS

JOB #

DATE 1-9-98

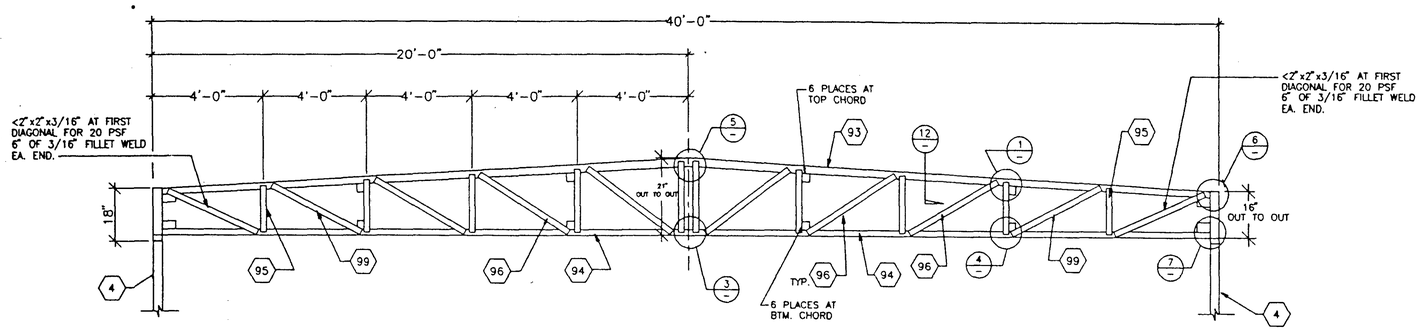
DRAWN BY R.D.L.

SCALE NONE

APPROVED

REVISIONS

SHEET NO.
S-62

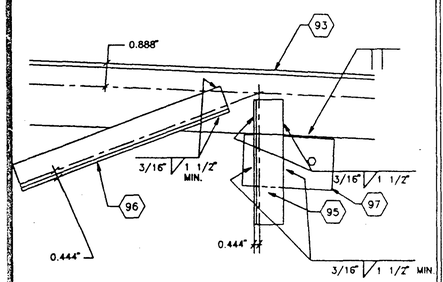


TRUSS ELEVATION

A

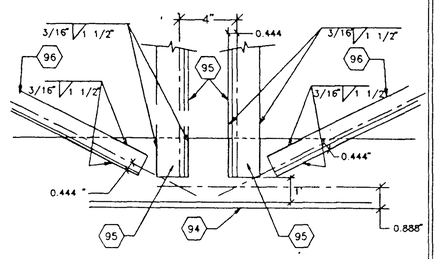
KEYNOTES

4. 3 1/2"x3 1/2"x3/16" STEEL TUBE
6. 5/8" MACHINE BOLT FOR MODULE CONNECTION
7. 1/4" CAP PLATE
71. ROOF JOIST
93. ∠ 3"x3"x3/8" TOP CHORD.
94. ∠ 5"x5"x3/8" 1/2" CHAMBER AT MIDPOINT FOR 20 PSF ROOF OR ∠ 4"x3"x3/8" 1/2" CHAMBER AT MIDPOINT FOR 30 PSF ROOF
95. ∠ 1 1/2"x1 1/2"x3/16" VERTICAL MEMBER
96. ∠ 1 1/2"x 1 1/2"x 3/16" DIAGONAL MEMBER TYP. (WITH 4" OF 3/16" FILLET WELD AT EA. END OF DIAGONAL & VERTICAL FOR 30 PSF ROOF, 3" OF FILLET WELD AT 20 PSF ROOF)
97. 3/8"x3"x5 1/2" PLATE WITH 11/16" HOLE FOR 5/8" MACHINE BOLT LOCATE PLATES @ 8'-0" O.C. FOR MODULE CONNECTION. SEE DETAIL 8.
98. 1 1/2"x1 1/2"x3/16" BRACE @ EVERY OTHER JOIST
99. 1 1/2"x 1 1/2"x 3/16" DIAGONAL (WITH 4" OF 3/16" FILLET WELD EACH END)

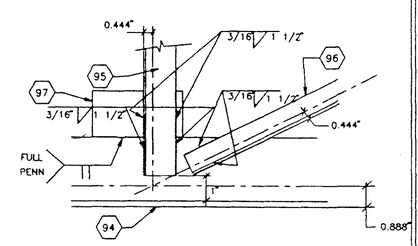


VERT. & DIAG. TOP CHORD — 1

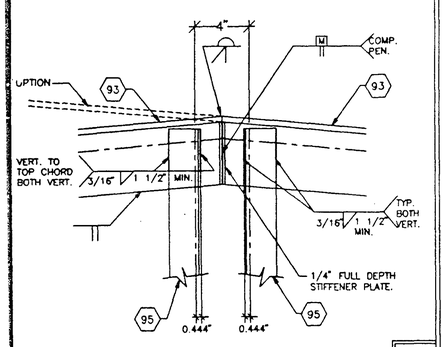
2



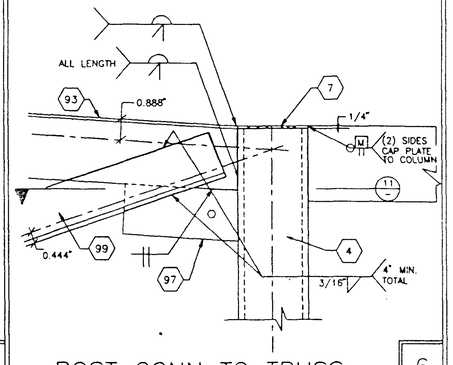
BOTTOM CHORD AT MIDSPAN — 3



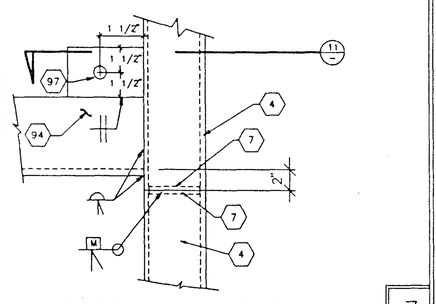
VERT & DIAG TO BOTTOM CHORD — 4



TOP CHORD AT MIDPOINT — 5



POST CONN TO TRUSS — 6



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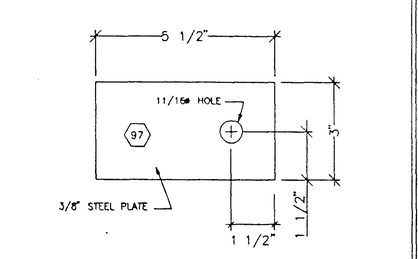
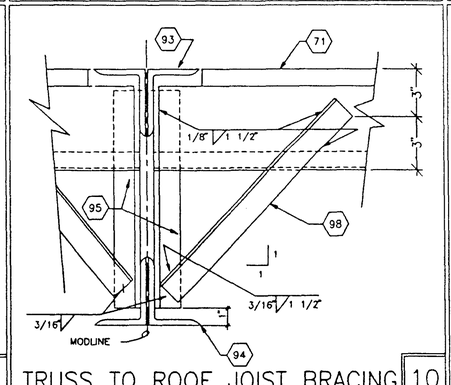
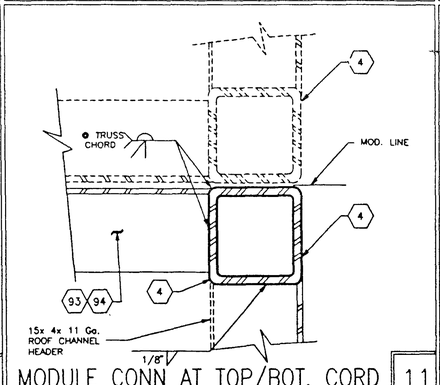


TIE PLATES — 8

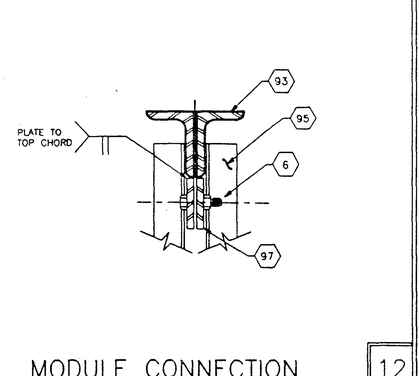
9



TRUSS TO ROOF JOIST BRACING — 10



MODULE CONN AT TOP/BOT. CORD — 11



MODULE CONNECTION — 12

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PROJECT
24'X40', ~~36'X40', & 48'X40'~~
MODULAR CLASSROOM BUILDING

TITLE
STEEL TRUSS SECTION DETAILS
FOR DOUBLE PITCH ROOF

JOB #

DATE 1-9-98

DRAWN BY R.D.L.

SCALE NONE

APPROVED

REVISIONS

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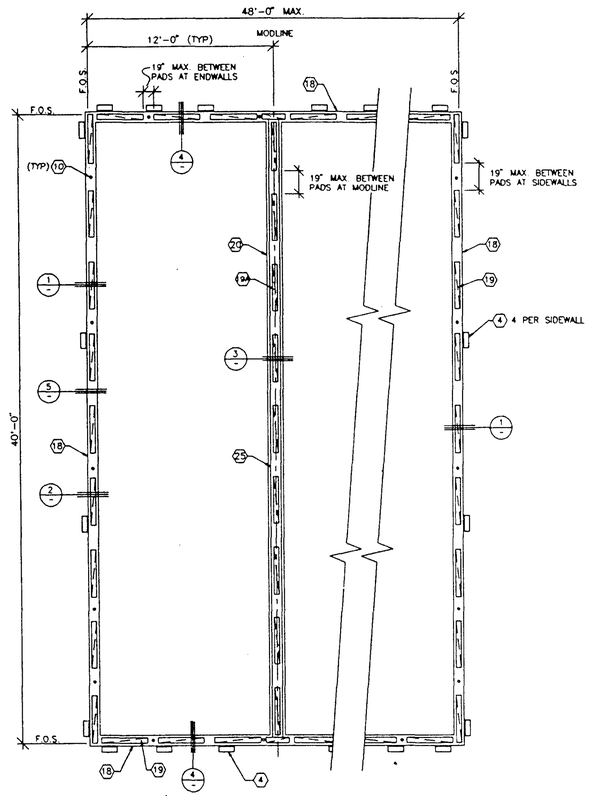
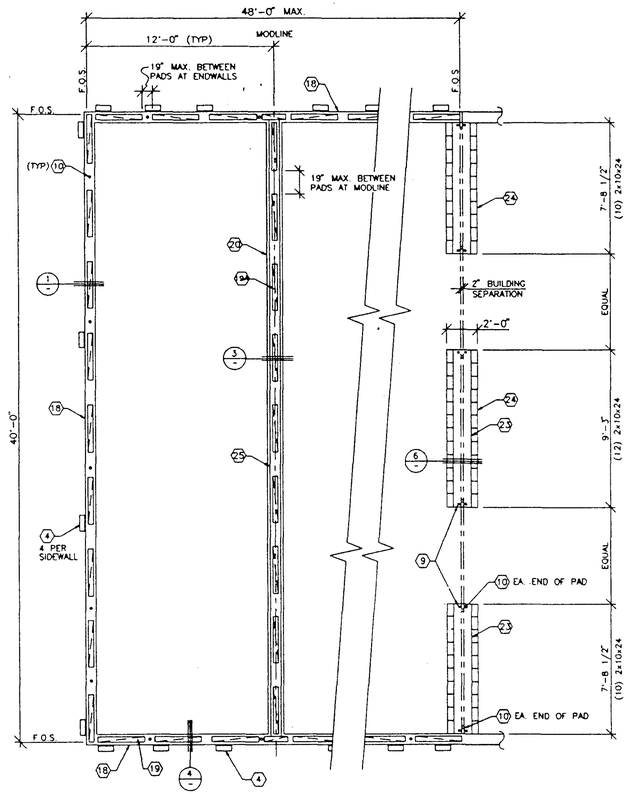
S-70



MULTI-WIDE FOUNDATION PLAN (N.T.S.)

50 P.S.F. FLOOR LIVE LOAD
20 PSF ROOF LOAD



FOUNDATION PLAN @ ADJACENT BUILDING (N.T.S.)

50 P.S.F. FLOOR LIVE LOAD
20 PSF ROOF LOAD

KEYNOTES

1 MAXIMUM SOIL BEARING PRESSURE - 1000 PSF.

2 ALL FOUNDATION LUMBER SHALL BE H.F. #2
ALL LUMBER IN CONTACT WITH GRADE SHALL BE STAMPED "FOR GROUND CONTACT"

ALL FOUNDATION NAILS SHALL BE CORROSION RESISTANT PER U.B.C. STANDARD 25. 1717.

3 2X4 CONTINUOUS. INTERNAIL TO EACH PAD WITH 16d BOX NAILS @ 5" O.C. STAGGERED.

4 TIE PLATE - 12"X6"X 10Ga. PLATE W/ (8) 5/16" HOLES AS SHOWN FOR (4) 1/4"X 3/4" LONG SELF TAP SCREWS INTO CHANNEL & (4) 1/4"X 3" LAG BOLTS. (SEE SCHEDULE 2)

5 5/8" PLYWOOD PERIMETER SKIRTING. NAIL TO FOUNDATION PADS WITH 8d BOX NAILS @ 12" O.C. TOP AND BOTTOM

6 NOT USED.

7 TAPERED SHIMS - NAIL TO FOUNDATION PADS WITH 16d BOX NAILS @ 12" O.C. NAIL 2X12 FOUNDATION PLATE TO TAPERED SHIMS WITH 16d BOX NAILS @ 12" O.C. STAGGERED ALONG EACH TAPERED SHIM. (PER SLOPE OF GROUND AT SITE)

8 PLYWOOD OR WOOD SHIM - MIN. 8" LONG, MAX. 16" BETWEEN SHIMS. NAIL TO PLATES WITH MIN. (3) 16d BOX NAILS PER SHIM MAX. 1-1/2" SHIM HEIGHT AT ANY LOCATION.

9 11/16" HOLE IN PURLIN FOR 5/8" X 4" LAG BOLT (SEE SCHEDULE 1 FOR AMOUNT)

10 DRIVE 1" DIA. X 15" G.I. PIPE @ 10'-0" O.C. MAX. DRILL SILL PLATE 1-1/4" MAX. PIPE MAY BE DRIVEN AT MAX. 45 ANGLE TO VERTICAL.

11 7"x9.8# STEEL FLOOR CHANNEL.

13 5/8" MACHINE BOLT @ MODULE CONNECTION.

14 PLYWOOD FLOOR DECK. ATTACH PLYWOOD FLOORING TO STEEL CHANNEL WITH #10 X 1 1/2 S.T.S

18 CONTINUOUS 2X8 P.T.H.F. SILL PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2X4 BLOCK LOCATION

19 2X4X3'-0" LONG BLOCKS. NAIL BLOCKS TOGETHER WITH 16d BOX NAILS @ 4" O.C. AND (2) 16d NAILS AT EACH END.

19A 2x6x3'-0" LONG BLOCKS. NAIL BLOCKS TOGETHR WITH 16d BOX NAILS @ 4" O.C. AND (2) 16d NAILS AT EA. END.

20 CONTINUOUS 2X12 P.T.H.F. SILL PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2X8 BLOCK LOCATIONS.

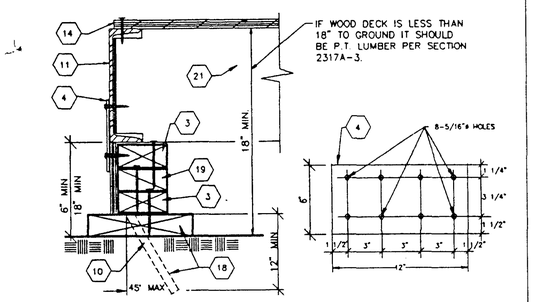
21 FLOOR JOIST OR BLOCK BETWEEN FLOOR JOIST.

23 CONTINUOUS 2X12X(SEE PLAN). NAIL (2) 16d AT EACH END AND 12" O.C.

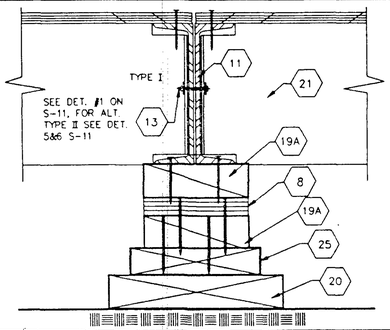
24 2X10X24" LONG SILL PADS. P.T.H.F. (SEE PLAN FOR QUANTITY 10 AT ENDS & 12 AT INTERIOR)

25 CONTINUOUS 2X8 H.F. PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2X6 BLOCK LOCATIONS.

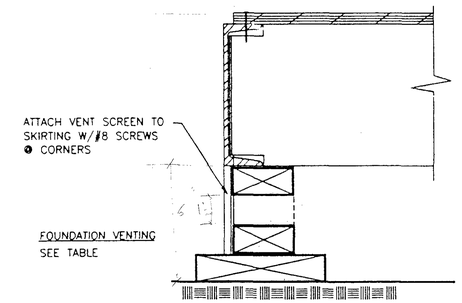
* NOTE:
UBC 2317.7 WHERE MOISTURE DUE TO CLIMATE AND GROUND WATER CONDITIONS IS NOT CONSIDERED EXCESSIVE, THE BUILDING OFFICAL MAY ALLOW OPERABLE LOUVERS AND MAY ALLOW THE REQUIRED NET AREA OF VENT OPENINGS TO BE REDUCED TO 10 PERCENT OF THE REQUIRED AMOUNT, PROVIDED THE UNDER-FLOOR GROUND SURFACE AREA IS COVERED WITH AN APPROVED VAPOR RETARDER.



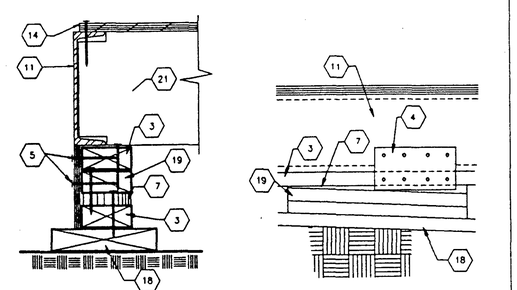
FOUNDATION AT SIDEWALL | 1



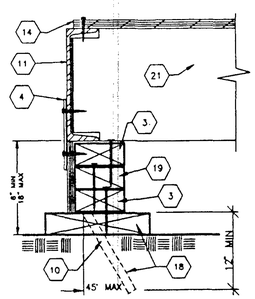
FOUNDATION AT MOD LINE | 3



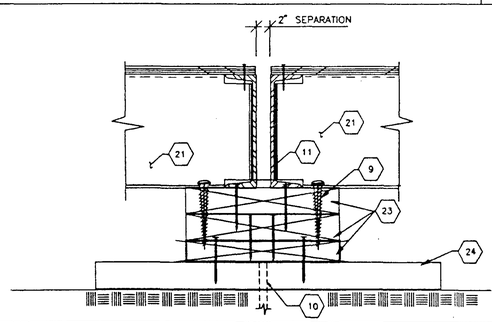
FOUNDATION VENTING | 5



SHIMMING AND SKIRTING (SIDEWALL SHOWN) | 2



FOUNDATION AT ENDWALL | 4



COMMON PAD | 6

SCHEDULE 1

LAG SCHEDULE-20 PSF ROOF			
BUILDING SIZE	FLOOR LOAD	LAG BOLTS AT EA. BUILDING	REQUIRED VENTS PER BUILDING (SQ.FT.) *
24'x40'	50 PSF	4	6.4
~~36'x40'~~	~~50 PSF~~	~~4~~	~~9.6~~
~~48'x40'~~	~~50 PSF~~	~~6~~	~~12.8~~

SCHEDULE 2

FACE PLATE SCHEDULE-20 PSF ROOF				
BUILDING SIZE	FLOOR LOAD	FACE PLATES AT SIDES	FACE PLATES AT ENDS	TOTAL
24'x40'	50 PSF	4	7	22
~~36'x40'~~	~~50 PSF~~	~~5~~	~~6~~	~~22~~
~~48'x40'~~	~~50 PSF~~	~~7~~	~~7~~	~~28~~

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ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP
REGISTERED PROFESSIONAL ENGINEER
No. 3602
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 1 1 2 3 1 7
AC — FLS — SS
DATE MAR 0 5 2009
STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 100119
AC FLS SS
DATE FEB 7 2001
STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4 100118
AC
DATE JAN 15 1998
STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
100073
FLS SS
DATE JAN 13 1998
STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP
AC
DATE SEP 3 2008

PROJECT
24'X40', ~~36'X40', & 48'X40'~~
MODULAR CLASSROOM BUILDING

TITLE
WOOD FOUNDATION

JOB #

DATE 1-9-98

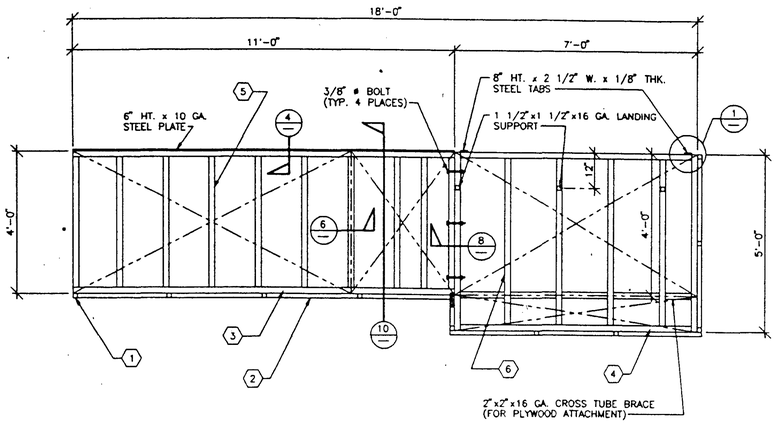
DRAWN BY R.D.L.

SCALE NONE

APPROVED

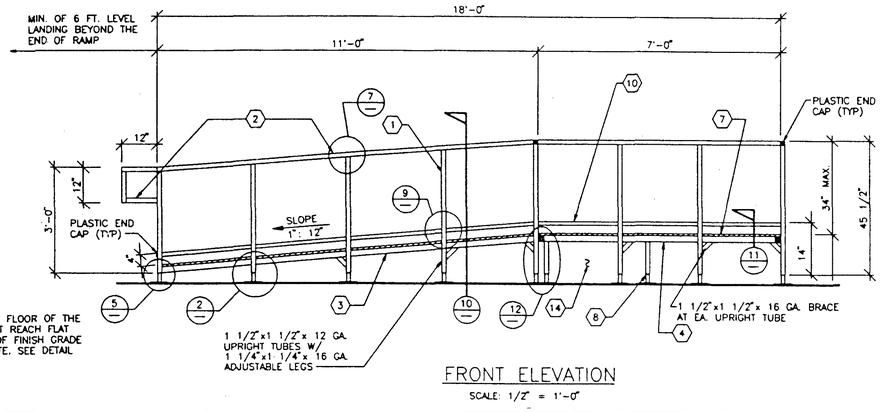
REVISIONS

SHEET NO.
F-1



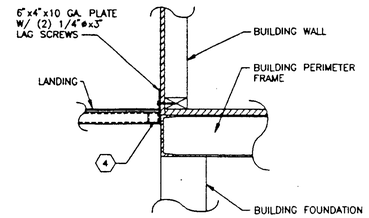
FRAMING PLAN

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

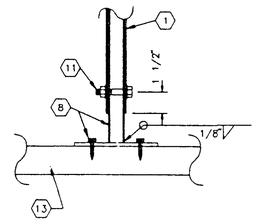


FRONT ELEVATION

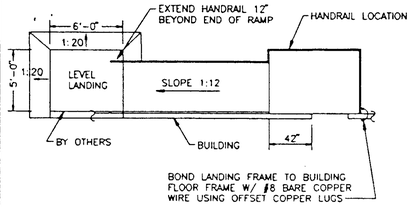
SCALE: 1/2" = 1'-0"



LANDING TO BUILDING 1



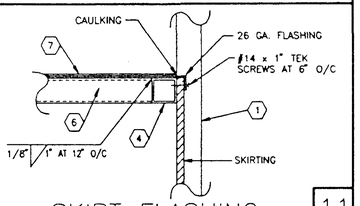
BASE 2



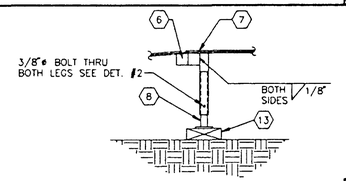
HANDRAIL LOCATIONS 3

KEY NOTES

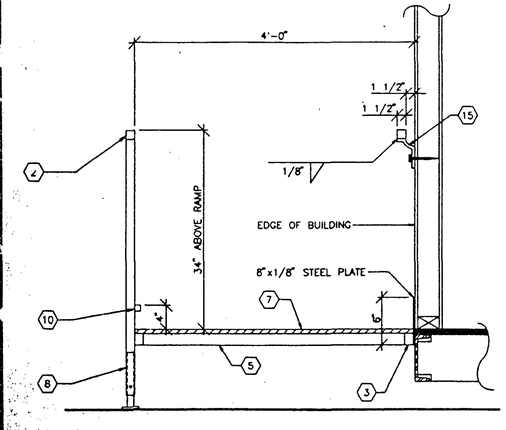
1. UPRIGHT TUBE - 1 1/2" x 1 1/2" x 12 GA. SQ. TUBE. (Fy = 39 ksi)
2. HANDRAIL TUBE - 1 1/2" x 1 1/2" x 16 GA. SQ. TUBE. (Fy = 39 ksi)
3. RAMP PERIMETER TUBE - 1 1/2" x 1 1/2" x 16 GA. SQ. TUBE
4. LANDING PERIMETER TUBE - 2" x 2" x 16 GA. SQ. TUBE
5. RAMP CROSS TUBE - 1 1/2" x 1 1/2" x 16 GA. SQ. TUBE
6. LANDING CROSS TUBE - 2" x 2" x 16 GA. SQ. TUBE
7. 3/4" PLYWOOD DECK W/ NON SKID SURFACE (TUF TREAD OR EQUAL)
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.
14. SKIRTING - SAME AS BUILDING FINISH
15. HANDRAIL MOUNTING BRACKET W/ 3/8"ø x 4" LAG BOLT TO STUD OR BLOCK.
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.



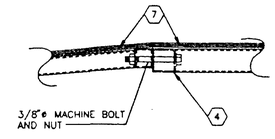
SKIRT FLASHING 11



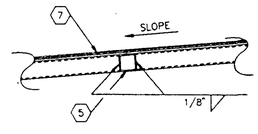
BASE LEG 12



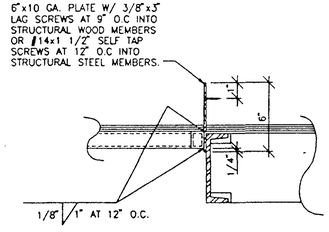
SECTION AT RAMP 10



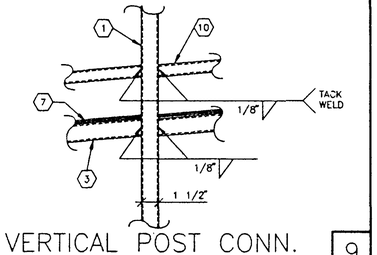
RAMP / LANDING TRANSITION 8



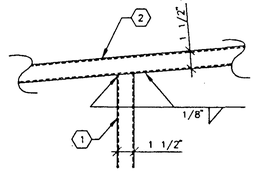
DECK & JOIST CONN. 6



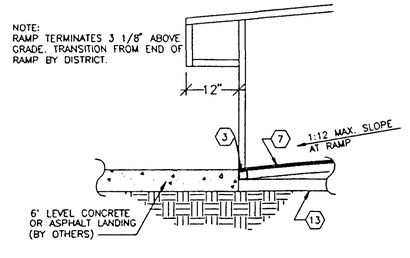
RAMP TO BUILDING 4



VERTICAL POST CONN. 9



POST TO HANDRAIL 7



CONC. LANDING TO RAMP 5

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 100118 AC FLS SS ED DATE FEB 7 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 1 1 2 3 1 7 AC KK FLS SS DATE MAR 05 2009

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 4 100118 AC FLS SS DATE JAN 15 1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 4 100073 AC FLS SS DATE JAN 15 1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 100118 AC FLS SS ED DATE SEP 8 2000

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ARCHITECT APPROVAL

STRUCTURAL ENGINEERS STAMP

REGISTERED PROFESSIONAL ENGINEER M.S.T. SIU No. 36223 CIVIL STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-2000

STATE AGENCY APPROVAL

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MSI

MODULAR STRUCTURES INTERNATIONAL, INC.

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

PC-100073

PROJECT 24'X40', ~~36'X40', & 48'X40'~~ MODULAR CLASSROOM BUILDING

TITLE RAMP & LANDING PLANS & DETAILS

JOB #

DATE 1-9-98

DRAWN BY R.D.L.

SCALE NONE

APPROVED

REVISIONS

SHEET NO. R-1