# BUILDING CODES AND STANDARDS

2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2001 CALIFORNIA BUILDING CODE VOLUMES 1, 2 AND 3 (PART 2 TITLE 24, CCR) (1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (1999 EDITION NATIONAL ELECTRICAL CODE WITH 2001 AMENDMENTS)

2001 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2000 EDITION IAMPO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)

2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)

2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 72, 1999 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

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

# MANUFACTURED RELOCATABLE MODULAR BUILDINGS STOCKPILE FOR (59) 24'x40' PORTABLE DSA CLASSROOMS

**WILLSCOT** 

FROM STOCKPILE TO SITE SPECIFIC RELOCATION PACKAGE FOR BAKERSFIELD CITY SD

# **NICHOLS ES**

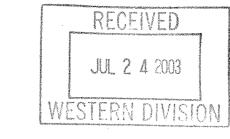
(x1) R.H. 24x40 CLASSROOM BLDG

Sn: 2AH10508-09

PC 4-104778

MODULAR STRUCTURES
INTERNATIONAL Inc.

920 CITRUS AVE. RIVERSIDE, CA. 92507 (909) 788—3035



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	CS	COVER SHEET, BLDG DATA, SHEET INDEX		<b>-</b>	NT NO OF THER PROPERTY OF THE
	G-1	GENERAL NOTES & SPECIFICATIONS		- Parties	ERIAL ODR ODR O SSSISSISSISSISSISSISSISSISSISSISSISSISS
BUILDING DATA	G-2	CONSTRUCTION NOTES, BLDG. MATERIALS, DOOR, WINDOW & FINISH SCHEDULES		1	MAT OF M OF W TO A THOU OF W THE THE
DOILDING DATA	<del>-0-3</del>	STANDARD ARCHITECTURAL PLUMBING DETAILS	· ·		THE COP COP SECULATION OF LEGISLAND OF LEGIS
OCCUPANCY: E-2	G-4	STANDARD ARCHITECTURAL DETAILS			AND ROPE CED. IN R CARDO CONS CONS CALL FALL FALL FALL
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TYPE OF CONSTRUCTION: V-NON RATED		FLOOR PLAN #1			DRAY SEPR SEPR SART WRIT INC INC INC
WIND LOAD: 80 M.P.H. EXPOSURE 'C'	A 1 21	24'x40' FLOOR PLAN, DUAL SLOPE EXTERIOR ELEVATIONS & ROOF PLAN			MANATE NO. S. L. S
	A 2 24	24'x40' INTERIOR ELEVATIONS  24'x40' REFLECTED CELLING DLAN & DETAILS			
	A 3 24	24'440' MECHANICAL DIANI		-	
FLOOR LIVE LOAD: 50 PSF	_ T 1 24	24',40' ELECTRICAL LICHTING (DOWED DLAN & FIDE ALADM		-	
ROOF LIVE LOAD: 20 PSF		2 1 X 10 ELECTRICAL EIGHTHACH TOWARD AND WAR		<b>-</b>	
		FLOOR PLAN			O
BUILDING AREA: 24'x40'=960 SQ. FT.	A-1.1-24	24'x40' FLOOR PLAN, DUAL SLOPE EXTERIOR ELEVATIONS & ROOF PLAN			
DUREDHNO MINEM. , ZT XTU - JUU JQ. II.		24'x40' INTERIOR ELEVATIONS	•	1	
	A-3.1-24	24'x40' REFLECTED CEILING PLAN & DETAILS			
	M-1.1-24	24'x40' MECHANICAL PLAN			
STRUCTURAL DESIGN: RIGID FRAME WITH CLEAR SPAN TRUSS	E-1.1-24	24'x40' ELECTRICAL LIGHTING/POWER PLAN & FIRE ALARM	, 4		Į Š
		. *		ARCHITECT STAMP	R R
MODULES: 12'x40'		STRUCTURAL		DATE SIGNED	SS X
	<del>S</del> 1	CENERAL NOTES & SPECIFICATIONS		JUL 15 2003	4
SEISMIC ZONE: 4	S-5	RIGID FRAME SECTIONS & DETAILS, DUAL SLOPE W/ LIGHT GA. SIDEWALL		- I was a second contract of the second contr	
ACTION AND ACCUPANT THE CALORO ACCOUNTS	S-10	FLOOR FRAMING PLAN & DETAILS W/ PLYWOOD FLOOR (80 & 90 MPH WIND)		The second secon	AR CO
SEISMIC NEAR SOURCE FACTORS: $Z=0.4$ , $P=1.0$ , $Ca=0.44xNa$ , $Na=1.5$ REDUCED TO 1.1 PER TITLE 24 SEC. 1629A.4.2 I=1.0, R=4.5, $Cv=0.64xNv$ , $Nv=2.0$	S-21	EXTERIOR WALL FRAMING ELEVATIONS (STEEL STUDS 80 & 90 MPH WIND)			5
	S 30			13/con	
ENERGY COMPLIANCE: CLIMATE ZONE 1 THRU 16	S-30 S-41	WOOD STUD WALL FRAMING DETAILS ( 80 MPH WIND)  ROOF FRAMING PLAN W/ 22 GA. ROOF (80 & 90 MPH WIND)		- No. 3602 3	Σ
NOTES:		ROOF FRAMING DETAILS W/ 22 GA. ROOF (80 & 90 MPH WIND)		- COTUS A	
THIS P.C. IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.	S-60	DUAL SLOPE TRUSS & DETAILS 20 PSF ROOF (80 MPH WIND)		LICENSE EXPIRES 6-30-2004	
				STRUCTURAL ENGINEER STAMP	III  -
THIS P.C. IS NOT APPROVED FOR 'A' OCCUPANCY USES.	R-1	RAMP FRAMING PLAN & DETAILS (4'-0" WIDE RAMP)		STRUCTURAL ENGINEER STAMP	JOB # 03-1012 03-1014
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE					DATE 7/8/03
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF				IJENTIFICATION STAMP OIV. OF THE STATE ARCHITEK.	
THE WORK, THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECT. 4-342, PART 1, TITLE 24, CCR. MIN INSPECTOR CLASS 2.		FOUNDATION		ONTICE OF REBULATION SEPTICES	DRAWN BY JAG
	<del>1</del>	WOOD PAD FOUNDATION & DETAILS (50 PSF FLOOR, 20 & 30 PSF ROOF)		04 V05478	
	F 4 4	W/ PLYWOOD FLOOR (80 MPH WIND)		AC AS FLAY 35	
	F-1.1	WOOD PAD FOUNDATION & DETAILS (50+20 PSF FLOOR, 20 & 30 PSF ROOF) W/ PLYWOOD FLOOR (80 MPH WIND)			APPROVED
	F-2	CONCRETE FOUNDATION PLAN ABOVE GRADE W/ PLYWOOD FLOOR		Ac: K.M. Smith	REVISIONS
		(80 & 90 MPH WIND)		- Par Officer of	
REVISION SUMMARY LOG	F-2.1	CONCRETE FOUNDATION DETAILS ABOVE GRADE W/ PLYWOOD FLOOR		STATE ACENCY STAMP	
REVISION DATE DESCRIPTION OF REVISION SHEET #		(80 & 90 MPH WIND)		STATE AGENCY STAMP	
	F-4	CONCRETE FOUNDATION PLAN FLUSH W/ SRADE W/ PLYWOOD FLOOR			
		(80 & 90 MPH WIND)	5		4
	F-4.1	CONCRETE FOUNDATION DETAILS FLUSH W/ GRADE W/ PLYWOOD FLOOR		-	
		(80 & 90 MPH WIND)		4	
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#### GENERAL SPECIFICATIONS

#### SECTION 1A

#### 1. GENERAL

- A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERA REQUIREMENTS APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH SECTION.
- . 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.
- . ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 19, AND 24 CALIFORNIA CODE OF REGULATIONS. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE DISTRICT
- SCOPE OF WORK
- A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT, AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDING AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.
- ALL REQUIREMENTS OF TITLE 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (C.C.R.) RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL
- 1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
- INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITEC INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED INSPECT THE GENERAL CONSTRUCTION, WELDING MECHANICAL AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICT
- ON SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY OF THE BUILDING INSTALLATION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
- 4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.

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

#### WHEELS AND HITCH

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

#### 6. GENERAL CONSTRUCTION

- A. STRUCTURAL FRAME EACH MODULE SHALL BE DESIGNED AS A MOMENT FRAME STRUCTURE TO WITHSTAND VERTICAL AND HORIZONTAL LOADS AND COMPLY WITH REQUIREMENTS OF THE DIVISION OF THE STATE ARCHITECT. THE NECESSARY PROVISIONS ARE INCORPORATED IN THE STRUCTURE TO PERMIT THE RELOCATION OF THE STRUCTURAL FRAME IN SECTIONS NOT EXCEEDING 12 FEET IN WIDTH.
- B. FLOOR THE FLOOR SHALL BE STEEL FRAMED WITH A DESIGN LIVE LOAD OF 50 lbs. PER SQUARE FOOT UNLESS OTHERWISE

#### SECTION 5A STRUCT, AND MISC. STEEL

#### . SCOPE OF WORK

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

- A. STRUCTURAL STEEL SHAPES- ASTM A-36, OPEN HEARTH OR ELECTRIC FURNACE ONLY. ALL REGULAR SHAPES AS DESCRIBED IN AISC CONSTRUCTION MANUAL, UNLESS OTHERWISE NOTED.
- B. COLD FORMED LIGHT GAUGE STEEL- ASTM A-570 GRADE 33.
- MINIMUM YIELD 33,000 PSI. C. STRUCTURAL PIPE - ASTM A-53 MIN. YIELD OF 35,000 PSI.
- STRUCTURAL TUBING ASTM A-500 MIN. YIELD OF 46,000 PSI.
- D. BOLT MATERIAL BOLTS AND NUTS, AMERICAN STANDARD REGULAR, AS DETAILED IN AISC CONSTRUCTION MANUAL, FABRICATED FROM STRUCTURAL QUALITY STEEL, ASTM A-307.
- . ARC-WELDING ELECTRODES- CLASS E-70 SERIES FOR WELDING A-36 STEEL TO A-36 AND E-60 SERIES FOR WELDING A-570 STEEL TO A-36, CONFORMING TO REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF AMERICAN WELDING SOCIETY, LATEST EDITION.
- . ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINUMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT LBS. AT MINUS 20 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

#### WORKMANSHIP

- A. GENERAL ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS, TITLES 21 AND 24 OF THE CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF LIGHT GAUGE STEEL STRUCTURAL
- B. WELDING- ALL WELDING DONE BY SHIELDING ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT.
- . ERECTION- STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND O ITS DESIGNED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDING AS INDICATED ON THE DRAWINGS.
- D. NAILS, BOLTS, SCREWS, NUTS, ETC .- FOR EXTERIOR WORK SHALL BE
- CADIUM PLATED OR GALVANIZED. E. HANDRAILS- FABRICATED AS DETAILED, WELDS GROUND SMOOTH.
- EXPOSED STEEL COATED WITH ONE COAT SHOP COAT. NON-EXPOSED STEEL COATED WITH ONE COAT SHOP COAT
- ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS
- PRIOR TO APPLICATION OF SHOPS COA G. TESTS- PROVIDE MILL CERTIFICATES OR TEST ALL MEMBERS. WELDS SHALL BE INSPECTED AND/OR TESTED PER T-24 SECTION 2231A.5

#### SECTION 6A CARPENTRY

#### 1. SCOPE OF WORK

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

LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 16" OF WEST COAST LUMBER INSPECTION BUREAU GRADING RULES FOR WESTERN LUMBER, 3rd EDITION" OF WESTERN WOOD PRODUCTS ASSOCIATION. PLYWOOD GRADE MARKED IN ACCORDANCE WITH "PRODUCT STANDARD PS 1-95 FOR SOFTWOOD" OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH UBC STANDARD 25-9.

- A. HEADERS- HEM FIR STUD GRADE OR BETTER. PLATES HEM FIR STUD GRADE OR BETTER.
- SILLS AND LUMBER IN CONTACT WITH CONCRETE, MASONRY OR EARTH-HEMLOCK FIR PRESSURE TREATED WITH WOLMAN SALTS, TANALITH U OR CHROMATE COPPER ARSENIC; GRADE - 2x4; NO. 2 GRADE - 2x6, CUT ENDS

WITH EXTERIOR GLUE, ON OVERHANGS, C-C PLUGGED AND TOUCH

BLOCKING- HEM FIR STUD GRADE OR BETTER DIPPED IN PRESERVATIVE (CUPONAL). PLYWOOD ROOF DECKING- APA C-D GRADE, GROUP 1, EXPOSURE 1

- F. PLYWOOD FLOOR DECKING- APA STURD-I-FLOOR 48" O.C. 1-1/8"
- TONGUE AND GROOVE FLOOR SHEATHING G. EXTERIOR SIDING/SHEATHING- APA TYPE 303, EXTERIOR, M.D.O. O.C., SIDING. SHEATHING 1/2" CDX H. STUDS AND POSTS- HEM FIR STUD GRADE
- I. FASTENERS- ALL NAILS SHALL BE CORROSION RESISTANT PER UBC STANDARD 2304A.4. BUILDING TRIM- 1x RESAWN SELECT H.F. OR MASONITE.

## K. DOOR/WINDOW TRIM- 1x4 RESAWN H.F.

- A. FRAMING- SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL, PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES B. NAILING- IN ACCORDANCE WITH TITLE 24 C.C.R.- TABLE 23-II-B-1. NAILS SHALL BE CORROSION RESISTANT BOX NAILS.
- C. EXTERIOR WALLS- FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALLS AND STRUCTURAL MEMBERS PROVIDING WEATHERPROOF AND WATERTIGHT SEAL, NECESSARY CLOSURES, SEALS, FLASHING PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
- D. MACHINE APPLIED NAILING- SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUES SATISFACTORY PERFORMANCE PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT
- MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY. E. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM F. RETIGHTEN ALL BOLTS BEFORE CLOSING IN.

G. THE DESIGN MOISTURE CONTENT OF LUMBER IS 19% OR LESS

BEFORE FABRICATION, OTHER REVISION THRU CHANGE ORDER WILL

#### SECTION 7B SHEET METAL

- 1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.
- A. SHEET METAL- STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A123.
- MINIMUM 26 GA B. SOLDER- OF STANDARD BRAND, GRADE A OF EQUAL PARTS LEAD AND TIN ASTM B32.

## C. FLUX- ZINC SATURATED MURATIC ACID.

SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE, EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT.

#### SECTION 7J SEALANT

1. SCOPE OF WORK

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO SEAL THE BUILDINGS.
- "VULKEM" SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO
- INTERNATIONAL OR APPROVED EQUAL, TO BE USED @ ALL STANDING SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT, IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- SECTION 8B HOLLOW METAL DOORS & FRAMES
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS & FRAMES.
- A. DOORS- TYPE L FULL FLUSH INSULATED, MANUFACTURED BY 'STEELCRAFT' MANUFACTURING COMPANY OR APPROVED EQUAL, 18 GA. 1-3/4"

#### B. FRAMES- 16 GA. COLD ROLLED 2" FACES. SECTION 8D FINISH HARDWARE

#### 1. SCOPE OF WORK

CONTRACTOR SHALL SUPPLY AND INSTALL HARDWARE AS

#### SPECIFIED AND AS REQUIRED. 2. DOOR SCHEDULE- SEE SHEET G-2

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

#### SECTION 9E PAINTING

#### 1. SCOPE OF WORK

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

#### 2. MATERIALS

- A. EXTERIOR WOOD- VISTA BRAND 4100 PRIMER, 6000 FINISH. (OR EQUAL) B. INTERIOR TRIM- VISTA BRAND 7000 FINISH. (OR EQUAL) C. METAL- VISTA BRAND 7000 FINISH. (OR EQUAL)
- 3. WORKMANSHIP A. EXTERIOR- WOOD SIDING, TRIM AND SKIRTING- APPLY TWO COATS
- OF EXTERIOR FLAT ACRYLIC PAINT SPRAYED ON. B. INTERIOR TRIM- TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMIGLOSS LATEX OVER PRIMER. C. METAL- ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS
- OF ALKYD FINISH COAT OVER SHOP COAT D. RAMP- ONE COAT OF NON-SKID SURFACING.

#### SECTION 13F SITE ASSEMBLY

. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING

#### CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

- 2. ASSEMBLY OF ELEMENTS A. IN A LOCATION AS DETERMINED BY THE SCHOOL DISTRICT. THE CONTRACTOR SHALL PLACE CONCRETE LEVELING STRIPS OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS. B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING
- OR BUMPING C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS ON THE DRAWINGS. FLASHING, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

#### SECTION 15A MECHANICAL

#### 1. SCOPE OF WORK

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITION SYSTEM AS SHOWN ON THE DRAWINGS INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.
- . EQUIPMENT- SEE A/C INFORMATION SCHEDULE FOR SIZE AND TYPE 3. WORKMANSHIP
- UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. SECTION 16A ELECTRICAL

#### SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES IN OPERATING CONDITION READY FOR USE THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.

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

#### WORKMANSHIP

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

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

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

SOLE PLATE TO JOIST OR BLOCKING FACE NAIL 16d AT 16" O/C TOP PLATE TO STUD, END NAIL (2) 16d

STUD TO SOLE PLATE (4) 8d TOENAILS OR (2) 16d ENDNAIL DOUBLE STUDS, FACE NAIL 16d AT 24" O/C DOUBLE TOP PLATES, FACE NAIL 16d AT 16" O/C DOUBLE TOP PLATES, LAP SPLICE (8) 16d

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

CEILING JOIST TO PLATE, TOENAIL (3) 8d CONTINUOUS HEADER TO STUD, TOENAIL (4) 8d CEILING JOIST, LAPS OVER PARTITIONS, FACE NAIL (3) 16d CEILING JOIST TO PARALLEL RAFTERS FACE NAIL (3) 16d

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

1" BRACE TO EA. STUD AND PLATE, FACE NAIL (2) 8d BUILT UP CORNER STUDS 16d AT 24" O/C

SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING: 2 1/2" OR LESS 19/32" - 3/4",  $8d^4$  OR  $6d^5$ 

1 1/8" - 1 1/4" 10d OR 8d COMBINATION SUBFLOOR/UNDERLAYMENT TO FRAMING 3/4" OR LESS <sub>5</sub>6d<sup>5</sup>

 $1^{\circ}1/8" - 1^{\circ}1/4" \quad 10d^{\circ}OR \quad 8d^{\circ}$ PANEL SIDING TO FRAMING:

#### 1/2" OR LESS 6d<sup>6</sup> 5/8" 8d<sup>6</sup>

<u>FOOTNOTES</u> COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE

OTHERWISE STATED. <sup>2</sup>NAILS SPACED AT 6" O/C AT EDGES, 12" O/C AT INTERMEDIATE SUPPORTS " O/C AT ALL SUPPORTS WHERE SPANS ARE 48" OR MORE, FOR NAILING PLYWOOD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2315A.3.3 & 2315A.4. NAILS FOR WALL

#### SHEATHING MAY BE COMMON, BOX OR CASING. COMMON OR DEFORMED SHANK.

# <sup>4</sup>COMMON

<sup>5</sup>DEFORMED SHANK.

<sup>6</sup>CORROSION RESISTANT SIDING OR CASING NAILS CONFORMING

TO THE REQ. OF SECTION 2304A.3. <sup>7</sup> FASTENERS SPACED 3" O/C AT EXT. EDGES AND 6" O/C AT INTERMEDIATE SUPPORTS

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

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

OPANEL SUPPORTS AT 16". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS. 11 PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.

12 WHEN POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE

GRAIN SHALL BE USED INSTEAD OF TOENAILS.

#### A. MATERIALS AND WORKMANSHIP:

ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED.

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

THE CONTRACTOR SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

#### B. GENERAL DESIGN REQUIREMENTS:

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

A. D.S.A. APPROVAL NUMBER D. DESIGN FLOOR LIVE LOAD B. DESIGN WIND LOAD E. BUILDER'S NAME C. DESIGN ROOF LIVE LOAD 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.

ALL HORIZONTAL JOINTS IN SIDING SHALL BE PROTECTED BY GALVANIZED "Z BAR- $3/4 \times 5/8 \times 3/4$ " 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
- PLANS AND SPECIFICATIONS: CHANGES IN PLANS AND SPECIFICATIONS SHALL BE MADE BY THE ADDENDUM OR CHANGE ORDER, SIGNED BY THE ARCHITECT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE ANY RELATED WORK CAN BEGIN. CHANGE ORDERS SHALL ALSO BE SIGNED BY THE OWNER PRIOR TO APPROVAL BY DSA.
- 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.
- 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.
- 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.
- 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. <u>T-GRID CEILING</u>: 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."
- 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

2. INSTALLATION OF THE FIRE PROTECTIVE SIGNALING SYSTEM SHALL NOT BE

EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY. 4. ALARMS- SECTION 1006.2.4, CALIFORNIA FIRE CODE.

A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL

IF EMERGENCY WARNING SYSTEMS ARE REQUIRED, THEY SHALL ACTIVATE

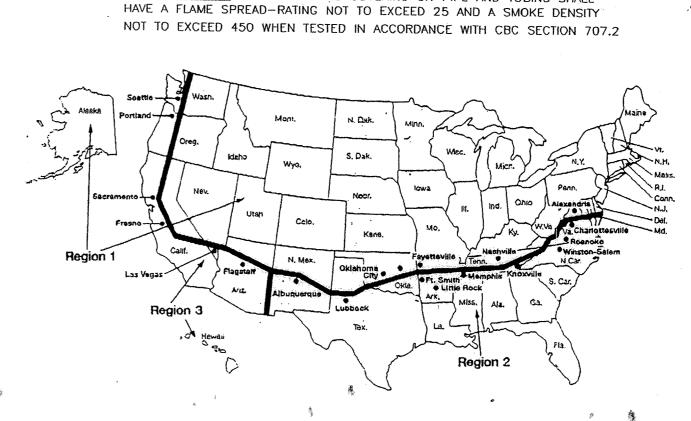
WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.

(A) LOCATE PER CFC 1006.2.4

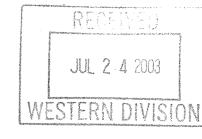
K. GROUNDING OF BUILDING COMPONENTS 1. THE OWNER, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS, SHALL RESPONSIBLE FOR PROVIDING THE NECESSARY GROUNDING OF THE

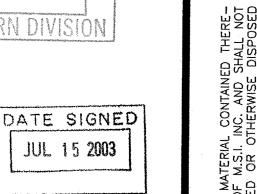
- BUILDING ELECTRICAL SYSTEM PER CEC 250-50, 250-52 AND 250-56. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY GROUNDING OF THE METAL PORTION BUILDING COMPONENTS (METAL FRAMED STEEL RAMP, ETC.) TO MEET THE REQUIREMENTS OF IR
- NO 16-1, ISSUED BY D.S.A. 3. THE PROJECT INSPECTOR SHALL WITNESS AND VERIFY THE GROUNDING
- TESTS.
- L. <u>MECHANICAL</u> 1. FACTORY-MADE AIR DUCTS. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. STANDARD NO. 10-1. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM. SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDNETIFICATION INDICATING COMPLIANCE WITH C.M.C STANDARD NO. 10-1 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF
- THEIR LISTING. 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. 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.
- NO. 9-6. AIR FILTERS SHALL COMPLY WITH ALL REQUIREMENTS OF STATE STANDARD NO. 12-71-1. PIPE AND TUBING. INSULATION AND COVERING ON PIPE AND TUBING SHALL

4. AIR FILTERS. AIR FILTERS SHALL BE LISTED UNITS PER U.F.C. STANDARD



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





Na 3502

LICENSE EXPIRES 6-30-2004

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AS NOTED APPROVED REVISIONS STATE AGENCY STAMP

DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICE

SHEET NO. FLS MY SS KT 5-30-03

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ATERIAL CONTAINE
M.S.I. INC. AND
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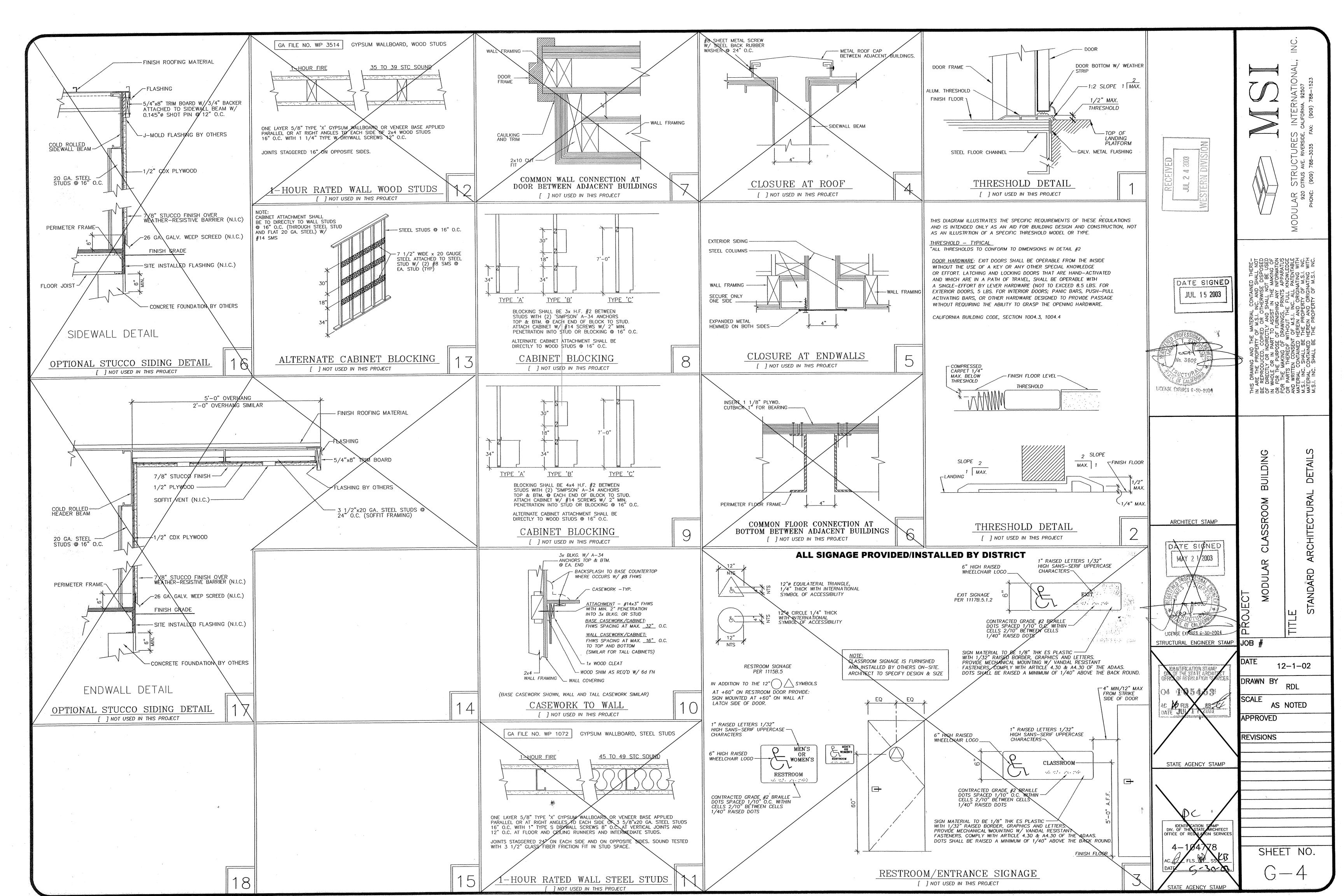
CONSTRUCTION NO	OTES & MATERIALS:		
CHASSIS CONSTRUCTION: CHECK ONE	STEEL COLUMNS: CHECK ONE	INTERIOR FINISH SCHEDULE	T WARRING GROUP (
BOX SIZE: 12'x40'  FRAME: PERIMETER	CORNER COLUMNS: 3 1/2"x3 1/2"x1/4" OR 4"x4"x1/4"  MIDSPAN COLUMN © SIDEWALL: N.A.	ROOM FLOOR BASE WALLS CEILING	HARDWARE GROUP 1
MAIN RAIL/SIZE: 7"x9.8# C-CHANNEL @ PLYWOOD FLOOR OR	STEEL POST HEIGHT: 9'-0"		QTY. DESCRIPTION  3 HINGES HA
10"x15.3# C-CHANNEL @ CONCRETE FLOOR	REFERENCE DETAIL SHEET:		4.
No. OF AXLES:			1 LOCKSET, LEVER HANDLE IA  1 CLOSER, 5 LBS CLOSING NO
MISC: —	TRUSS TYPE 20 PSF ROOF LOAD: YES OR NO	S) S) S) S) S S) S S S S S S S S S S S	PRESSURE
	SIDEWALL BEAM TYPE: 18/23/18x3 1/2"x10 GA. CHANNEL @ DOUBLE SLOPE C	THERS)  THERS)  VINYL  VINYL  VINYL  VINYL  GRID ©  GRID ©  GRID ©	1 THRESHOLD PE
FLOOR FRAMING: CHECK ONE	ENDWALL HEADER: 18 x 3 1/2" x 12 GA. CHANNEL @ DOUBLE SLOPE AND	——	1 DOOR BOTTOM PE
50 PSF 50 PSF 50+20 PSF 100 PSF 125 PSF	TRUSS CONFIGURATION @ MODLINE: DOUBLE SLOPE OR SINGLE SLOPE	CLASSROOMS   CLASSROOMS  CLASSROOMS	1 WEATHERSTRIP PE
JOIST SIZE & GRADE: 7"x11 GA. Z-MEMBER @ PLYWOOD FLOOR OR	TOP CHORD: L 3"x3"x3/8"	RESTROOMS	1 DOOR STOP QU
6"x8.2 C-CHANNEL @ CONCRETE FLOOR DIST SPACING: SEE CHART ON FLOOR FRAMING PLAN 48" O.C.	BOTTOM CHORD: <u>L 3"x3"x3/8"</u> WEBS: <u>L 2"x2"x3/16" @ 1ST TWO BAYS, L 1 1/2"x1 1/2"x3/16" @ ALL OT</u>	'HERS	
INSULATION: R-11 UNFACED OR R-19 UNFACED	OVERHANCE: 5'-0" @ FRONT & 2'-0" @ REAR		
POTTON ENCLOSURE: CANVEX CW-600	OVERHANG MATERIAL: L 4"x3"x3/8" X OR 10"x3"x12 GAUGE C-CHANNEL		HARDWARE GROUP 2
FLOOR DECK: PLYWOOD DECKING OR LIGHTWEIGHT CONCRETE	SOFFITS: OPEN SOFFITS OR CLOSED SOFFITS REFERENCE DETAIL SHEET:		QTY. DESCRIPTION
REFERENCE DETAIL SHEET:	MISC:		3 HINGES HA
		NOTE:	1 PRIVACY LEVER SC
	TRUSS TYPE 30 PSF ROOF LOAD: YES OR NO TRUSS CONFIGURATION: DOUBLE SLOPE OR SINGLE SLOPE	FINISH WALL COVERING & FINISH CEILING SHALL BE FLAME SPREAD CLASS 1	
EXTERIOR WALLS WOOD STUD OPTION: CHECK ONE USED NOT USED	SIDEWALL BEAM TYPE: 18/23/18x3 1/2"x10 GA. CHANNEL @ DOUBLE SLOPE (	OR	
WIND LOAD: 88 MPH EXP. C OR 90 MPH EXP. C STUD SIZE & GRADE: 2"x4" H.F. #2 OR 2"x6" H.F. #2	18/28x3 1/2"x10 GA. CHANNEL @ SINGLE SLOPE	WINDOW SCHEDULE	
SPACING: 16" O.C.	ENDWALL HEADER: 18"x3 1/2"x12 GA. CHANNEL @ DOUBLE SLOPE AND 18"x28"x3 1/2"x12 GA. CHANNEL @ HIGH SIDE OF SINGLE SLOPE	ROUGH OPENING WINDOW SIZE TYPE FRAME SCREEN GLAZING MANUFACTURE/SERIES/DESCRIPTION	HARDWARE GROUP 3
SIDE WALL HEIGHT: 9'-0"	TRUSS TOP CHORD: L 4"x3"x3/8"	A VERIFY VERIFY 8'-0"x4'-0" XOX CLEAR ANODIZED ALUM. FRAME YES GREY TINT SCREENS DUAL GLAZE, HORIZONTAL SLIDER, ALUMINUM FRAMED SCREENS	QTY. DESCRIPTION
INSULATION: R-13 UNFACED OR R-DOUNFACED	TRUSS BOTTOM CHORD: L 4"x3"x3/8"  TRUSS WEBS: L 2"x2"x3/16" @ 1ST TWO BAYS, L 1 1/2"x1 1/2"x3/16" @ ALL 0	OTHERS B	3 HINGES H
FIRE RESISTIVE CONSTRUCTION:	OVERHANGS: 5'-0" @ FRONT & 2'-0" @ REAR		1 PANIC HARDWARE VO
REFERENCE DETAIL SHEET:	OVERHANG MATERIAL: L 5"X3"X3/8" OR 10"X3"X12 GAUGE C-CHANNEL		1 CLOSER, 5 LBS CLOSING NI PRESSURE
MISC:	SOFFITS: OPEN SOPFITS OR CLOSED SOFFITS REFERENCE DETAIL SHEET:		1 THRESHOLD P
	MISC:	DOOR SCHEDULE	1 DOOR BOTTOM P
EXTERIOR WALLS STEEL STUD OPTION: CHECK ONE SUSED NOT USED	CITE CONDITIONS SUSSESSED OUT	SYM. WIDTH HEIGHT THK. TYPE FIRE RATING FRAME GLAZING REMARKS	1 WEATHERSTRIP P
WIND LOAD: 80 MPH EXP. C OR 90 MPH EXP. C STUD SIZE & GRADE: 3 1/2" x 20 GAUGE OR 5 1/2" x 20 GAUGE	SITE CONDITIONS: CHECK ONE  FOUNDATION TYPE: WOOD PAD OR CONCRETE	1 3'-0" 6'-8" 1 3/4" HOLLOW METAL 15 GA. METAL 18 GA. HOLLOW METAL DOOR	1 DOOR STOP
SPACING: 16" O.C.	FLASHING REQUIRED: CONCRETE FLUSH W/ GRADE OR CONCRETE ABOVE W/ GRADE	DE DE TIMELT PRETIVISHED INTERIOR LEGACT DOUR & FRAME	1 EXTERIOR TRIM, LEVER HANDLE VI
SIDE WALL HEIGHT: 9'-0"	RAMP & LANDING: SEE FLOOR PLAN FOR RAMP AND LANDING		
INSULATION: R-13 UNFACED OR R-19 UNFACED	SKIRTING REQUIRED: YES OR NO ROUGH SAWN T-1-11 UNGROOVE FIXTURE MOUNTING HEIGHTS: ADULT HEIGHT ELEMENTARY KIDDIE	4	
FIRE RESISTIVE CONSTRUCTION:	MISC.:		HARDWARE GROUP 4
REFERENCE DETAIL SHEET:			QTY. DESCRIPTION
MISC:	ON-SITE SCOPE OF WORK:		3 HINGES
	1. ALL UNDER FLOOR PLUMBING FURINISHED AND INSTALLED ON-SITE.		1 PASSAGE LEVER S
EXTERIOR WALL SIDING: CHECK ONE	2. 3.		
5/8" THK. DURATEMP APA RATED GROOVED @ 8" O.C.	4.		NOTE:
1/2" CDX PLYWOOD W/ STUCCO ON—SITE	5.		PANIC HARDWARE IS REQUIRED TO BE THE CONFIGURATION OF ANY ROOM PRO
MISC.: I.C.B.O.# FOR DURATEMP SIDING (ER-4856)	VARIABLE MATERIAL SPECIFICATIONS:  ROOFING:		LOAD OF 50 OR GREATER, CBC 1007.3
	FIRE RATED PER UBC STANDARD 15-2 CLASS 'A' BASE SHEET FINISHED GRADE 25-30# ASPHALT COATED		
	MULE-HIDE EPDM MEMBRANE ROOFING SYSTEM:	VINYL COMPOSITION TILE:	
INTERIOR WALLS: CHECK ONE  STUD SIZE & GRADE: 2"x4" H.F. #2 OR 3 1/2"x20 GAUGE STEEL STUDS	(ETHYLENE-PROPYLENE-DIENE TERPOLYMER MEMBRANE) ADHESIVELY OR MECHANICALLY ATTACHED OVER INSULATED, COMBUSTIBLE OR NON-COMBUSTIBLE DECKS, CLASS 'A'.	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	
STUD SPACING: 16" O.C.	THE EPDM MEMBRANES ARE SYNTHETIC RUBBER SINGLE-PLY SHEETS HAVING A MIN. NOMINAL THICKNESS OF 45 MILS (1.1 MM).	MAX. 450. MIN. COEFFICIENT OF FRICTION TO BE 0.5 PER ASTM D2047	
PARTITION HEIGHT: TO RAFTERS OR BELOW RAFTERS	INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS.  (I.C.B.O.# ER-5867)	TOP SET BASE: BURKE MOLDED RUBBER 1/8" THICK, 4" HEIGHT, COVE STYLE	
INSULATION: YES OR NO	1/4" DENS-DECK ROOF BOARD: USED AS A UNDERLAYMENT FOR THE EPDM MEMBRANE ROOFING SYSTEM. FLAME SPREAD: O, SMOKE DEVELOPED: O PER, ASTM E 84.	#502-P, OR EQUIV.	
REFERENCE DETAIL SHEET:	INSTALL PER ROOFING MANUFACTURER INSTALLATION INSTRUCTIONS. WINDOWS:	MARKER BOARDS: 1/2" PARTICLE BOARD SUBSTRATE, FULL WIDTH MAP RAIL W/ CORK	
MISC.:	HORIZONTAL SLIDING , 50% VENTING, ANODIZED ALUMINUM FRAME.  PERFORMANCE RATED PER AAMA GS101-88 FOR COMMERCIAL USE AND	INSERT AND SIX MAP HOOKS, EXTRUDED ALUMINUM MOLDING WITH FLAG HOLDER.	
	MEDIUM EXPOSURE, NAIL-ON FIN FASTENED DIRECTLY TO FRAMING AND BEHIND SIDING MATERIAL, REMOVABLE SCREEN AT VENT SASHES.	NOTE: ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 7 & 8.	
	LAMINATED OR TEMPERED GLAZING TO BE NOTED ON FLOOR PLAN.  DUAL GLAZED WINDOWS TO HAVE MINIMUM 1/4" AIR SPACE AND 1/8"	CFC AND TITLE 19 CCR	
ROOF DETAILS:  TYPE OF DRAIN SYSTEM: 26 GA. GUTTERS AND DOWN SPOUTS	GLASS (SEE WINDOW SCHEDULE FOR SIZES)		
REFERENCE DETAIL SHEET:	INTERIOR WALL COVERINGS: APPLIED OVER MINIMUM 1/2" GYPSUM BOARD, OR MINIMUM 3/8"		
MISC.:	(*)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		
ROOF FRAMING: CHECK ONE	BOARD, 4'-0"x9'-0", LONG EDGES BEVELED.  FLAME SPREAD = 65  SMOKE DENSITY = 175		
ROOF LOAD: 20 PSF OR 30 PSF OR 7"x1 1/2"x11 GA. Z-MEMBER OR 7"x1 1/2"x11 GA. Z-MEMBER	FRP: FIBERGLASS REINFORCED PLASTIC PANELS, 4'-0"x8'-0", WITH COLOR MATCHED PVC MOLDINGS OVER 1/2 GYPSUM		
RAFTER SPACING: 48" O.C.	FLAME SPREAD AND SMOKE DEVELOPMENT, CLASS C PER ASTM-E84 SMOKE DENSITY NOT TO EXCEED 450. FLAME SPREAD	NOT TO EXCEED 200	
INSULATION: R-19 UNFACED OR R-30 UNFACED  FINISH ROOFING: 22 GAUGE GALV. STANDING SEAM ROOF X	CEILING TYPE: SUSPENDED SYSTEM, PERFORMANCE RATED ASTM C635 HEAVY DUTY		
26 GAUGE GALV. STANDING SEAM ROOF	ACOUSTIC LAY-IN CEILING PANELS:  LIGHT REFLECTIVE LR-1, FIRE RATED CLASS-A PER ASTM E84.		
BUILT-UP 3-PLY ROOFING EPDM W/ 1/4" DENSDECK UNDERLAYMENT	VINYL FACED FIBERGLASS, 5/8" THICK, ARMSTRONG OR EQUIV. CLASS A: FLAME SPREAD 25 (UL LABELED) PER ASTM E 1264 SMOKE DENSITY NOT TO EXCEED 450.		
ROOF SHEATHING: 3/4" C-D PLYWOOD @ NON 22 GAUGE ROOFING  ROOF SLOPE: 1/4" PER 12" DOUBLE SLOPE	CARPET:  DIRECT GLUE-DOWN, PERFORMANCE RATED PER STATE OF CALIFORNIA		*
ROOF SLOPE: 1/4 PER 12 DOUBLE SLOPE  REFERENCE DETAIL SHEETS:	SPECIFICATION 7220-21L-01. (GROUP I, TYPE A, CLASS 24) 4600 MIN. DENSITY. THE CARPET IS TO HAVE A MINIMUM CRITICAL FLUX		
DRAFT STOP CONSTRUCTION:	OF .25 WATT/CM .  VINYL SHEET FLOORING:		4
ROOF MOUNT HVAC: CHECK ONE YES NO	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		
MISC:	SMOKE DENSITY MAX. 450. MIN. COEFFICIENT OF FRICTION TO BE 0.5 PER ASTM D2047		

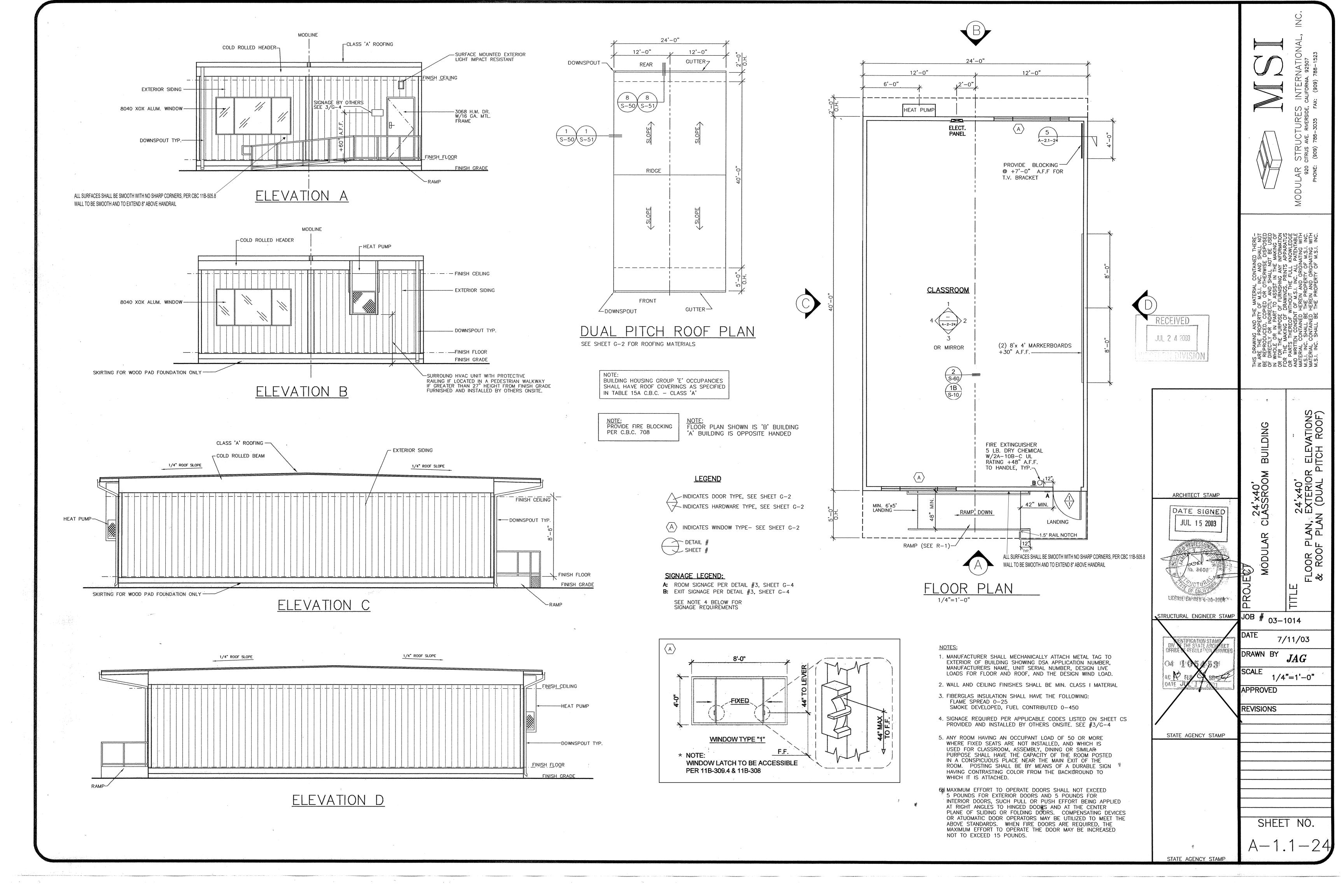
PART NO. AGAR BB1191 .5"x4.5" NRP AL LHV75-LFIC SAT ORTON 1601 EMCO 271A EMCO 216AV PEMCO 279PAV MODULAR STRUCTU 920 citrus ave. riv phone: (909) 788–30 UALITY 431 PART NO. HAGAR RC1749 4.0"x4.0" L2 SCHLAGE D40S RHODES, 200 FINISH PART NO. HAGAR BB1191 4.5"x4.5" NRP VON DUPRIN SERIES 22 EXIT DEVICE NORTON 1601 PEMCO 271A PEMCO 216AV THIS DRAWIN ARE THE BE REPROJUCE OF WHOLE OR FOR THE POR PARTS AND WRITTE MATERIAL OF M.S.I. INC. PEMCO 279PAV UALITY 431 ON DUPRIN 230L PART NO SPECIFICATIONS, NOTES & SCHEDULE HAGAR RC1749 4.0"x4.0" L2 NG SCHLAGE D10S RHODES, 26D FINISH BUILDII CLASSROOM NSTALLED WHEN ROVIDES AN OCCUPANT 3.10 ARCHITECT STAMP DATE SIENED DATE SIGNED BUILDING CONSTRUCTION JUL 15 2003 MAY 2/2003 MODULAR LECENSE EXPREES 6-30-2004 LICENSE EXPINES 6-30-2004 STRUCTURAL ENGINEER STAMP JOB # 12-1-02 DENTIFICATION STA NOT THE STATE ARD DRAWN BY R.D.L. SCALE AS NOTED APPROVED REVISIONS STATE AGENCY STAMP JUL 2 4 2003 WESTERN DIVISION IDENTIFICANON STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

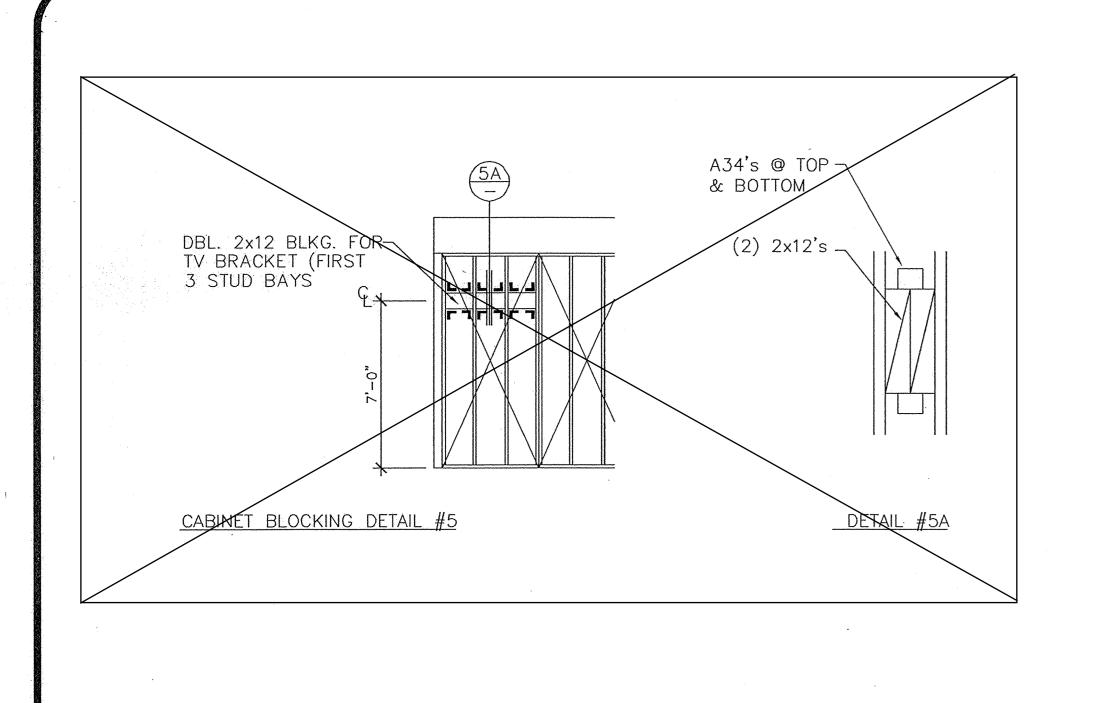
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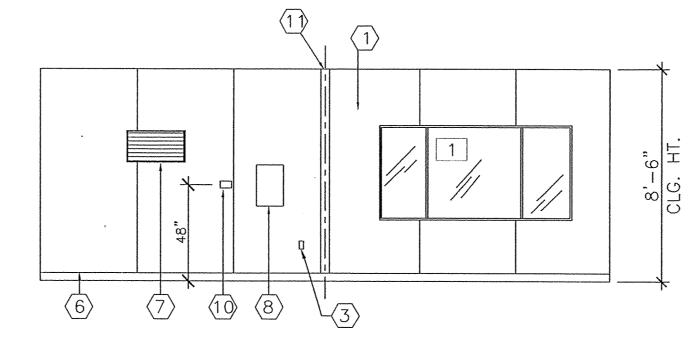
FLS WX SS 83

STATE AGENCY STAMP

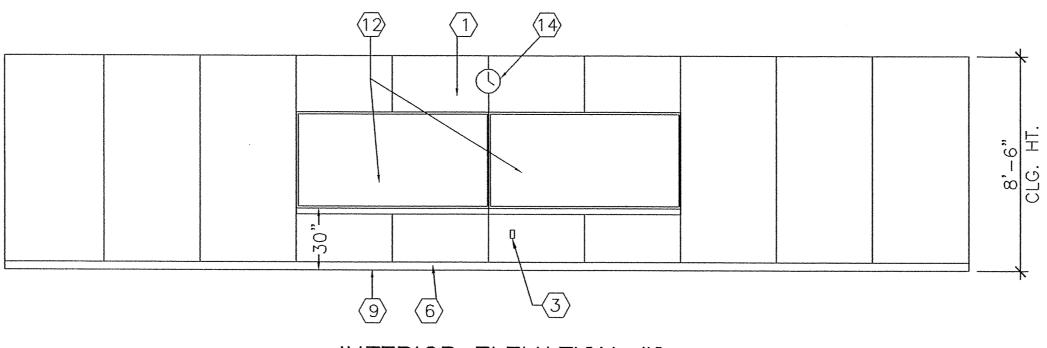




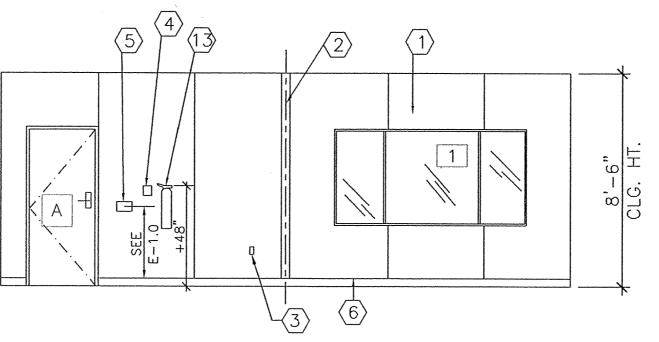




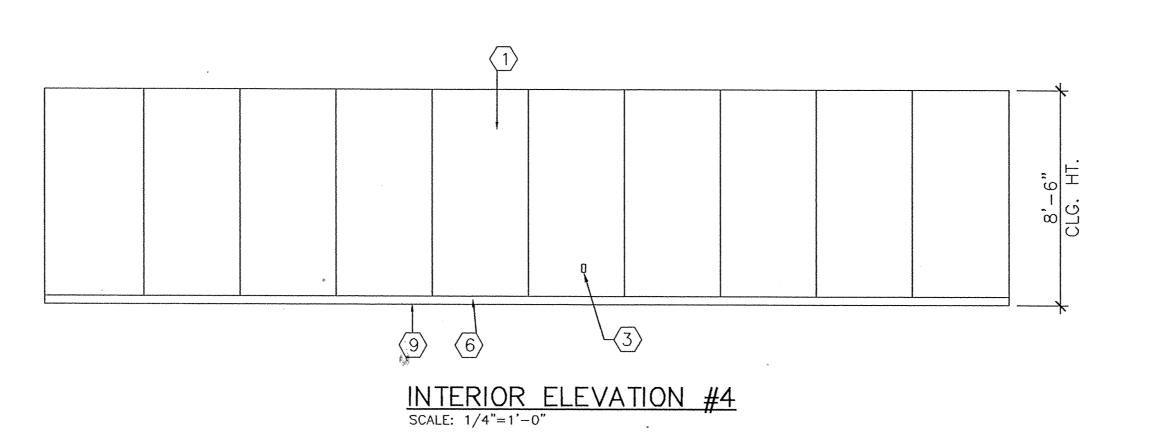




INTERIOR ELEVATION #2
SCALE: 1/4"=1'-0"

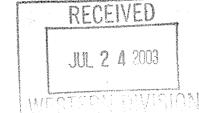


INTERIOR ELEVATION #3
SCALE: 1/4"=1'-0"

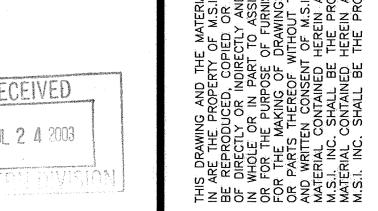




- A EXTERIOR DOOR
- 1 EXTERIOR WINDOW
- 1 TYPICAL INTERIOR FINISH
- (2) CLOSURE AT MODULAR JOINT
- 3 DUPLEX WALL RECEPTACLE +18" A.F.F. (SEE POWER PLAN)
- (4) FIRE ALARM PULL STATION (SEE POWER PLAN)
- (5) LIGHT SWITCH (SEE LIGHTING PLAN)
- (6) TOP SET BASE (TYPICAL) SEE FINISH SCHEDULE
- 7 RETURN AIR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



- (11) MODULAR JOINT
- (12) (2) 8'-0" x 4'-0" MARKERBOARD
- (13) FIRE EXTINGUISHER
- 14) 12" DIA. ELECTRIC CLOCK (SEE ELECTRICAL POWER PLAN)

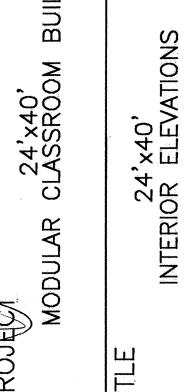


MODULAR STRUCTURES
920 CITRUS AVE. RIVERSIDE
PHONE: (909) 788–3035

DATE SIGNED

JUL 15 2003

BUILDING 24'x40' CLASSROOM



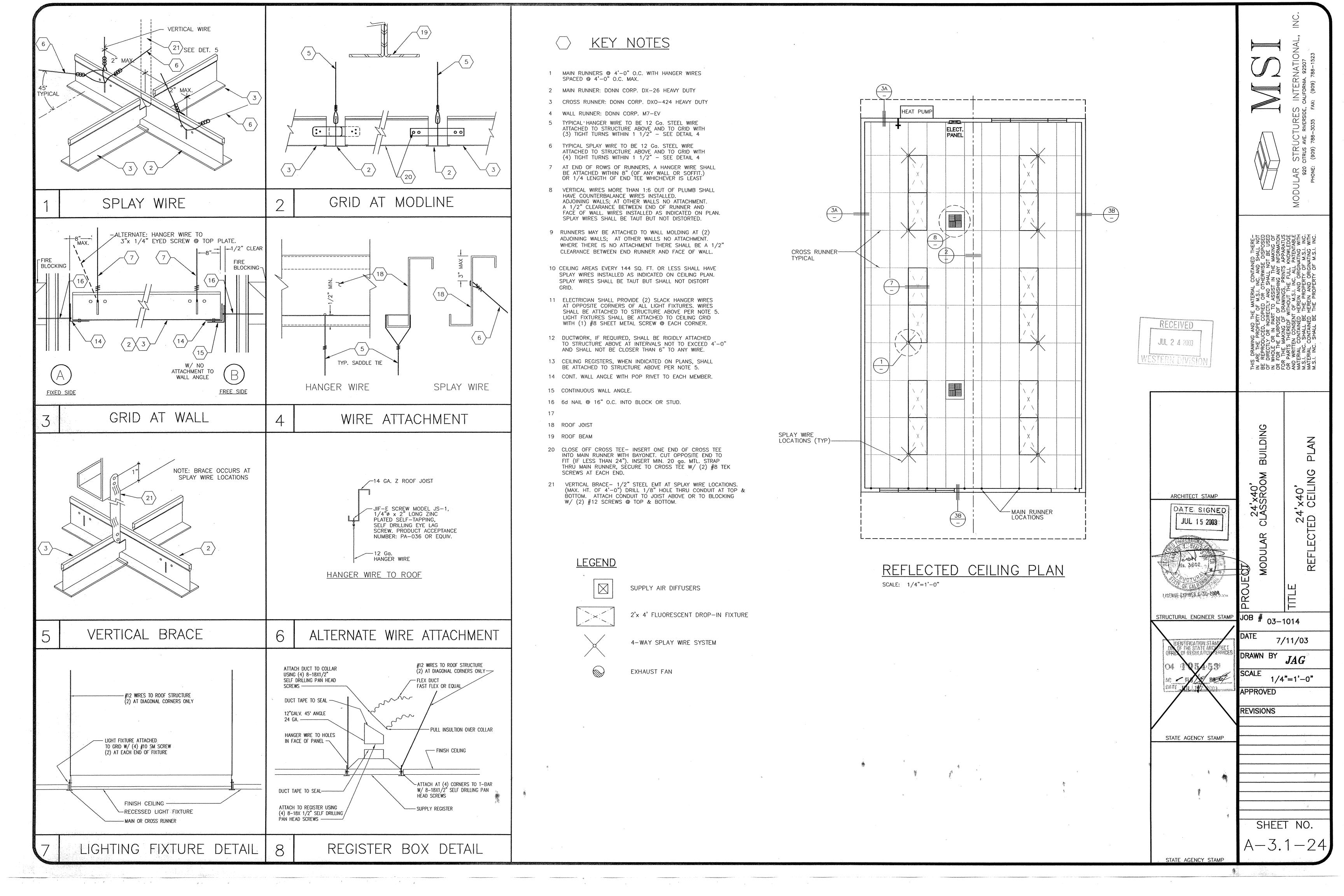
STRUCTURAL ENGINEER STAMP JOB # 03-1014 7/11/03

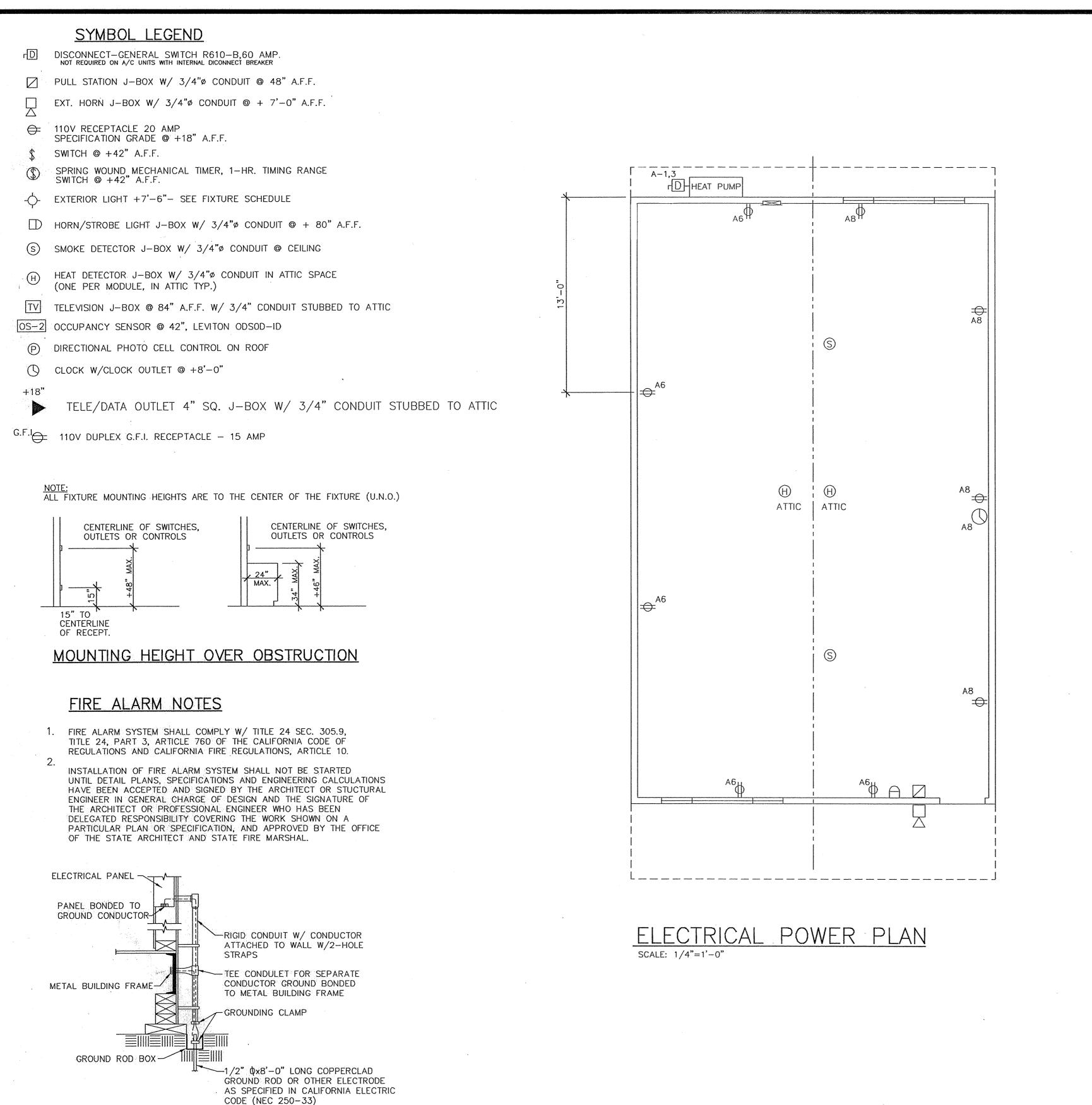
**REVISIONS** 

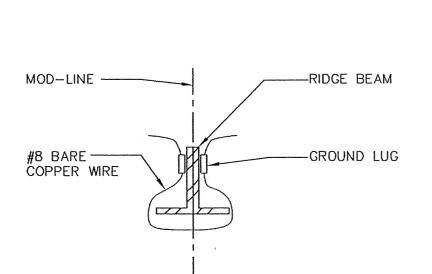
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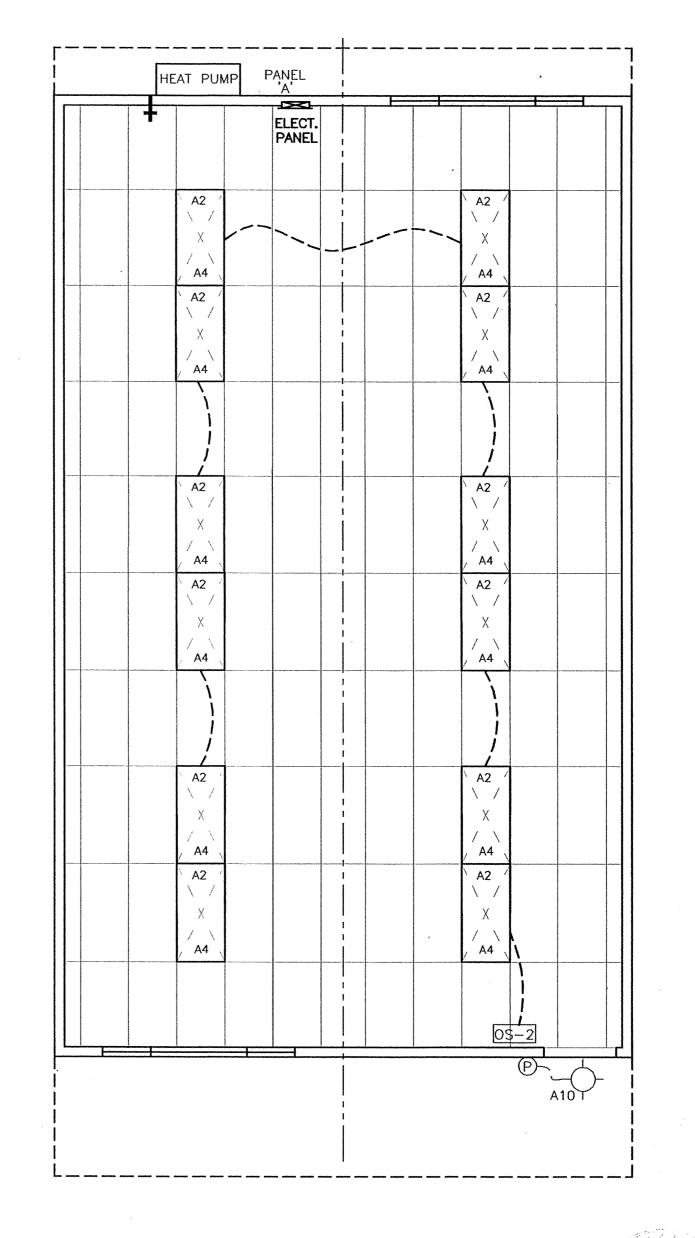
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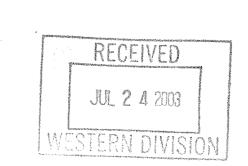




PANELBOARD	SCH	EDUL	.E												PANEL A
VOLTS 120/240		PHASE	<u> </u>	1	-			BU	SS _	100	) A			FEED	ВОТТОМ
MAIN BRKR 100 A	3	WIRE		3				МО	UNT	F	LUSI	1	-	LOCA	ATION INTERIOR
DESCRIPTION	William I	TTS	WIRE SIZE	BREAKER	POLE	CKT. NO.	A	В	CKT, NO.	POLE	BREAKER	WIRE SIZE	WA		DECODIDATION
DESCRIPTION HVAC 3.5 TON	AØ	Bø		<b></b>			H	$\dashv$	7	<del>                                     </del>			Aø 576	Bø	DESCRIPTION LIGHTS
HVAC 3.5 TON	6900	6900	6	60	2	3	+	1	4	1	20	12			LIGHTS/PORCH
J.BOX FOR W.H.	1500		12	20	1	5		1	6	1	20	12	1080		RECEPT.
	<b> </b>		_	_	-	7		1	8	1	20	12		1080	RECEPT.
			_	_	-	9			10	1	20	,12	75		EXT. LIGHT
			_	_	-	11	1		12	-	_	-			_
SUB TOTAL	8,400	6,900				·		•					1,731	1,731	SUB TOTAL
LOAD KW A 8,556	* L.C.L. = 1,227 x 1.25 = 1,534									TOTAL LOAD					
B 8,631 TOT 17,187	OTHER = $15,960$ MAX DEMAND = $17,494$ MAX DEMAND _ $72.9$ AMPS														

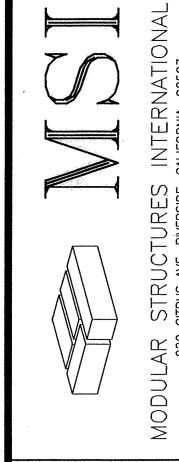


ELECTRICAL LIGHTING PLAN SCALE: 1/4"=1'-0"

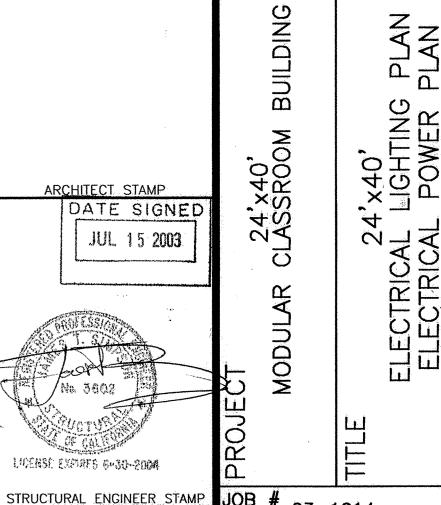


人们的 经地位分别 网络

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



THIS DRA IN ARE TI BE REPR OF DIREC IN WHOLE OR FOR T FOR THE OR PART! AND WRIT MATERIAL MATERIAL MATERIAL MATERIAL MATERIAL



JOB # 03-1014 7/11/03

DRAWN BY JAG 1/4"=1'-0"

APPROVED

REVISIONS

STATE AGENCY STAMP

SHEET NO.

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ACCEPTABLE GROUNDING DETAIL BY OWNER

5. PROJECT INSPECTOR SHALL, WITNESS GROUNDING TEST.

1. SIZE OF CONDUCTORS SHALL COMPLY W/NEC TABLE 250-95.

& 250-83).

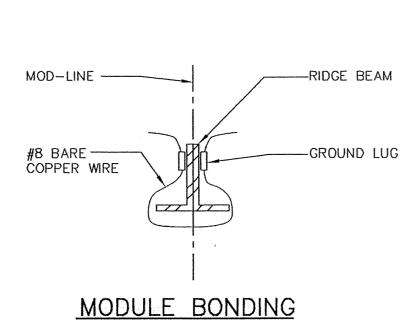
INCLUDING RAMP TO STEEL FRAME.

25 OHMS OR LESS (NEC 250-84).

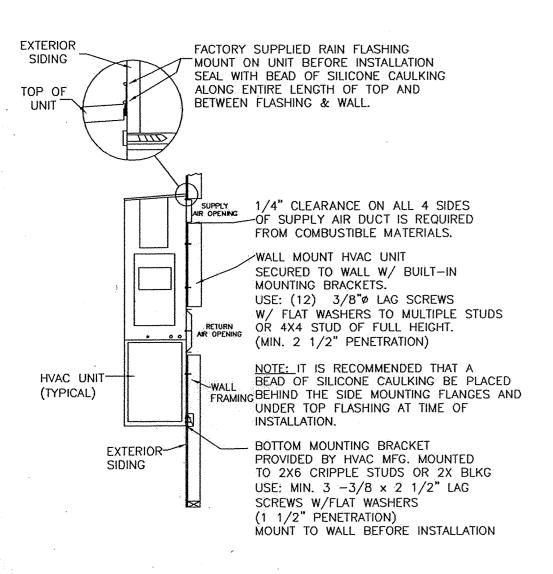
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & TO METAL BUILDING FRAME (NEC 250-81) IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (NEC 250-81

3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).

4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS W/CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO

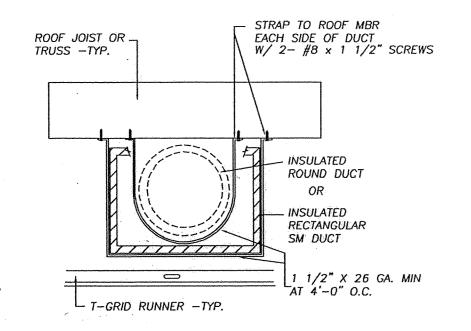


#### SIZE OF SUPPLY AND RETURN AIR OPENINGS AS PER MFG.'S SPECS ACCORDING TO SIZE OF HVAC UNIT



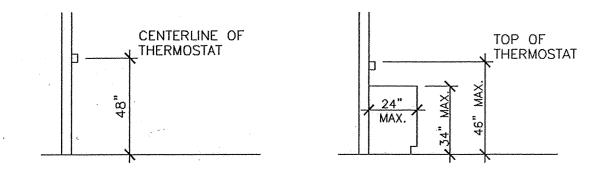
AIR FILTER: SEE GEN. NOTES ON ARCH'L SHEET OF PLANS

# HVAC MOUNTING



# DUCT MOUNTING

FACTORY-MADE AIR DUCTS: SEE GENERAL NOTES



# MOUNTING HEIGHT OVER OBSTRUCTION

## MECHANICAL NOTES

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

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

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

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

TAP

RANGE

 TAP
 RANGE

 240
 253-216

 208
 220-187

BARD HV	AC OPENING	<pre>   SUPPLY </pre>						
10 SEER	SIZE	OPENING						
WA/WH	1.0 TON	18 X 6						
WA/WH	1.5 / 2.0 TON	21 X 9						
WA/WH	2.5 / 3.0 TON	29 X 9						
WA/WH	3.5 / 4.0 TON 5.0 / 6.0 TON	31 X 11						
	<b>,</b>							
12 SEER	SIZE	OPENING						
WA/WH	2.0 TON	29 X 9						
WA/WH	2.5 TON	29 X 9						
WA/WH	3.0 TON	31 X 11						
GAS/ELEC.	SIZE	OPENING						
WG	2.0 / 2.5 3.0 TON	29 X 9						
WG	3.0 TON 3.5 / 4.0 5.0 TON	31 X 11						

## EQUIPMENT & MATERIAL SCHEDULE

3.5 TON

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

NOTE:

ADJUST OUTSIDE AIR DAMPER TO A MIN. OF 352 CFM

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



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

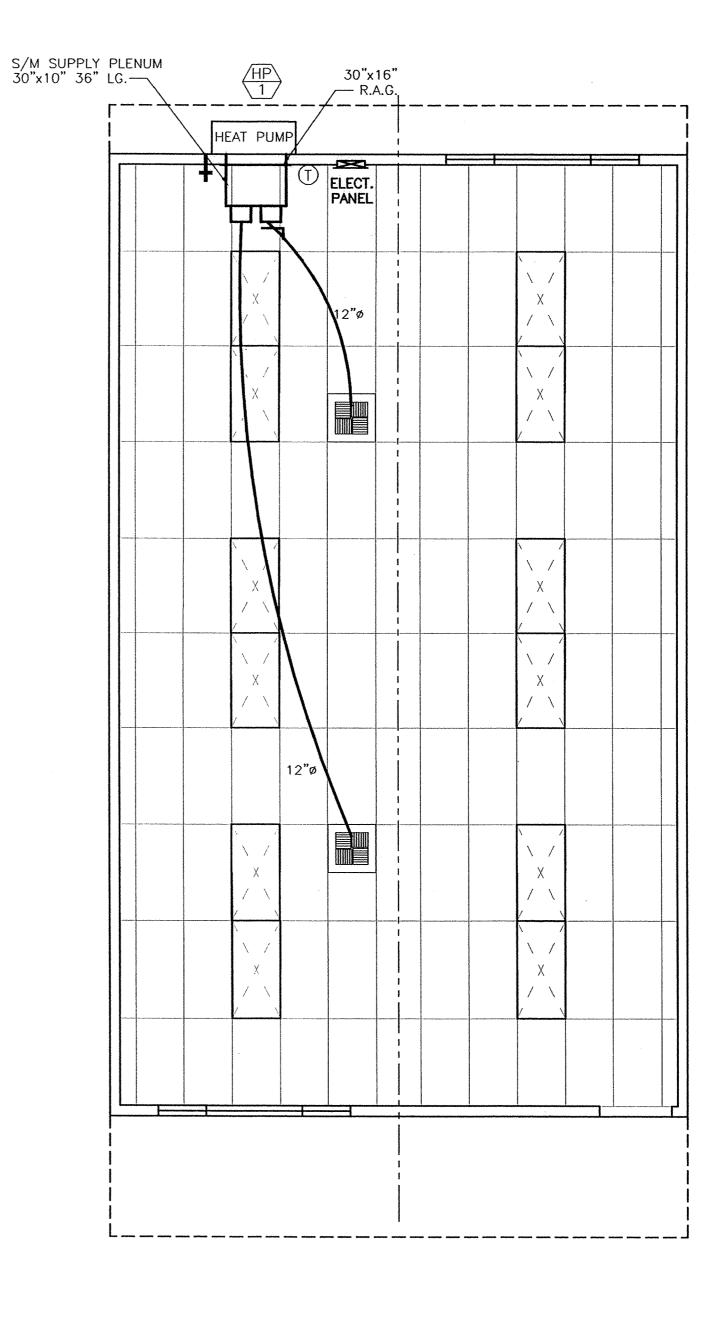
SUPPLY REGISTER, CEILING, AIRMATE 604M 8x8, MLD, 4 WAY FIXED BLADE



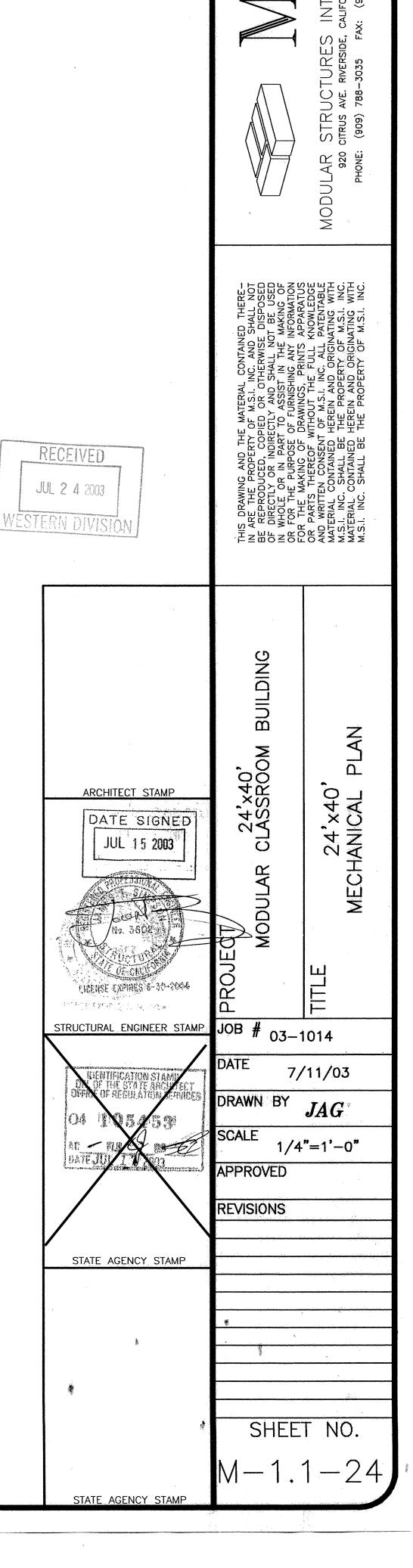
EXHAUST FAN 109 CFM, BROAN #L100 WITH 6" DUCT TO BROAN # 634 ROOF CAP

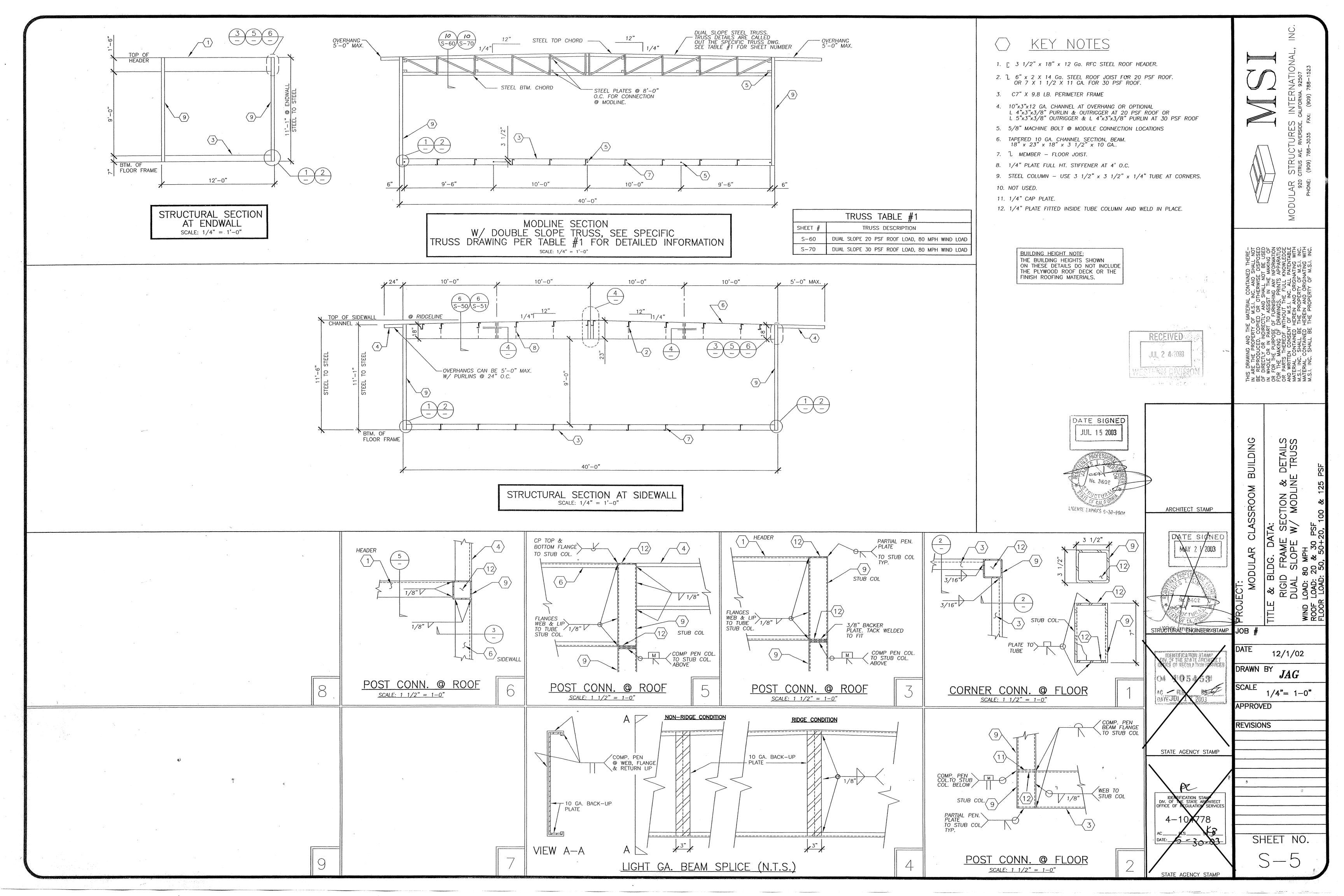


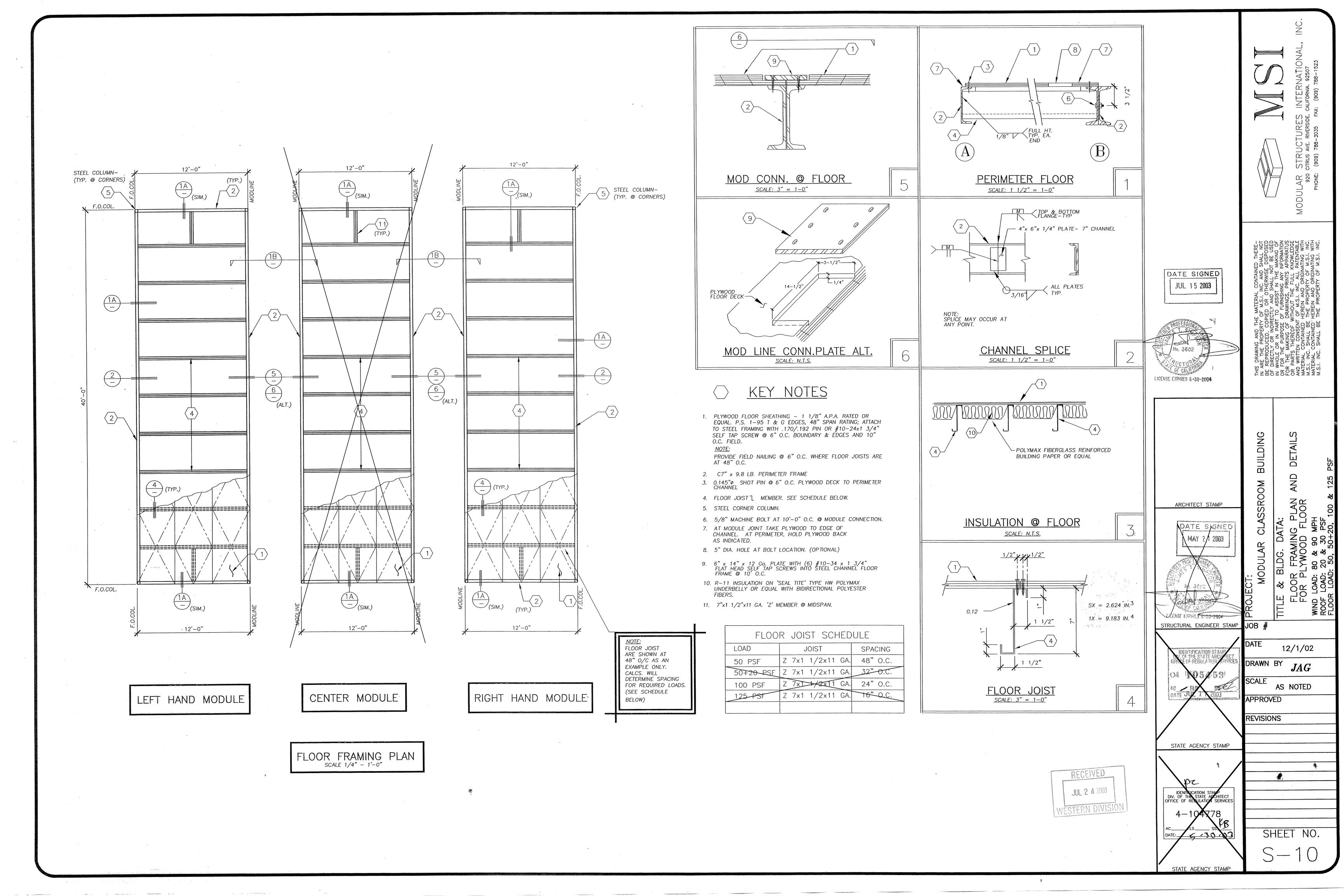
SUPPLY BALANCE DAMPER (SIZE AS NOTED)

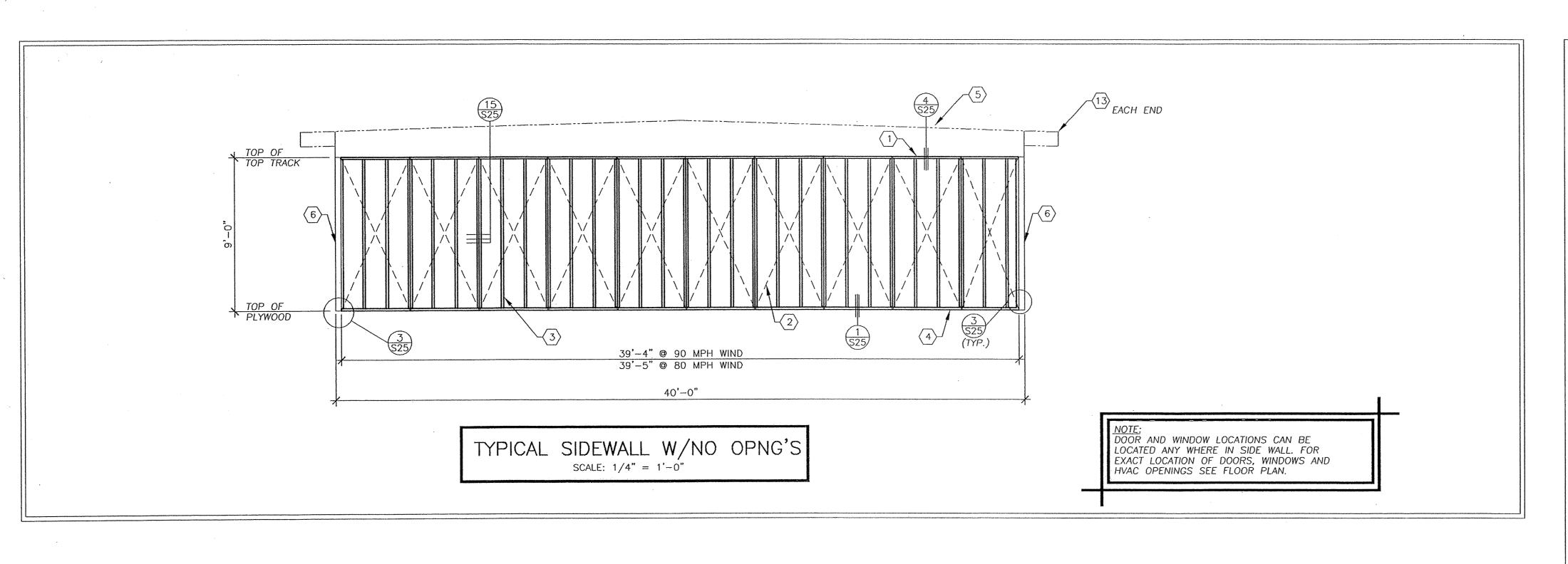


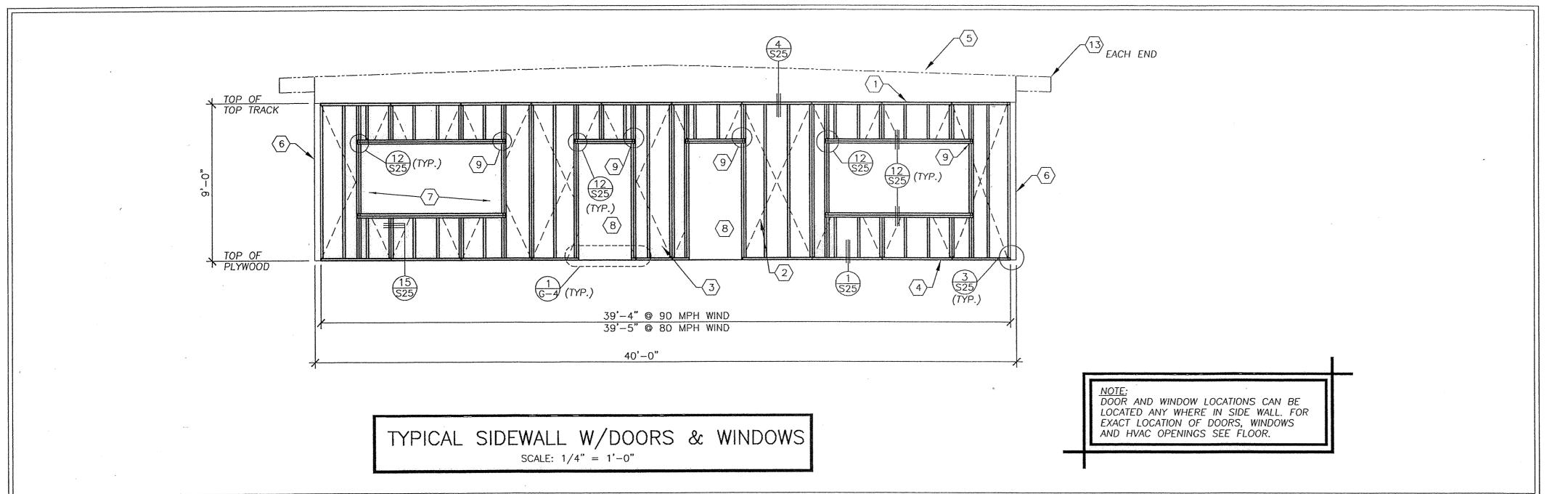
MECHANICAL PLAN

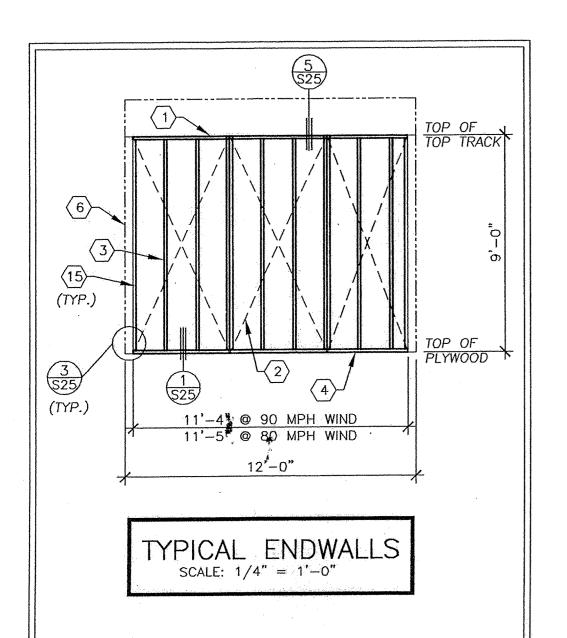


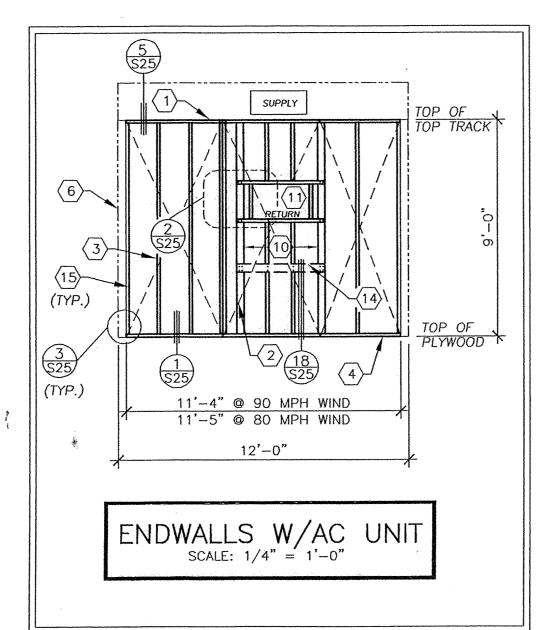


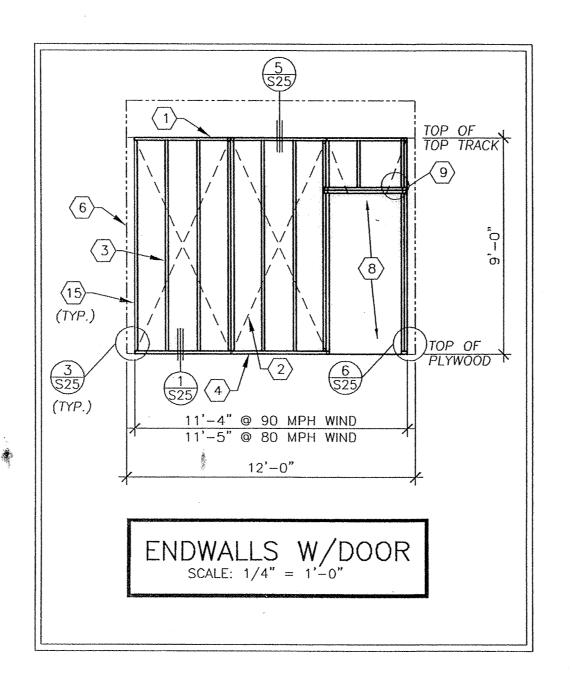


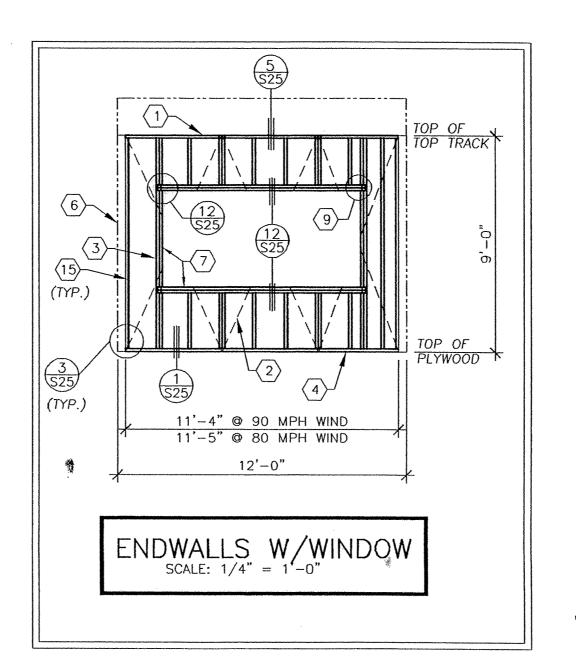














- 2. PLYWOOD SIDING/SHEATHING NAIL SIDING WITH CORROSION RESISTANT 8d BOX NAILS @ 6" BOUNDARY & EDGES, 12" FIELD.
- 3. 3 1/2" x 20 GA. STUDS @ 16" O.C.
- 4. CONTINUOUS 3 1/2" x 20 GA. BTM. TRACK.
- 5. STEEL FRAME- SEE SHEET S-50 S-51 "STRUCTURAL SECTIONS" FOR MEMBER TYPES AND SIZES.
- 6. STEEL CORNER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

NOTE:
FOR EXACT LOCATION
OF DOORS, WINDOWS

AND HVAC OPENINGS, SEE FLOOR PLAN.

- 14. NOTCH (1) PC. OF 3 1/2" x 20 GA. TRACK AROUND STUDS TO PRÓVIDE BLKG..
- 15. 2 x 4 SHIM LOCATED BETWEEN 4 x 4 STL. POST AND FIRST 3 1/2" x 20 GA. STUD @ OUTSIDE OF BLDG.

#### WALL FRAMING NOTES FOR STUCCO SIDING OPTION:

STUDS TO BE 3 1/2" x 20 GA. @ 16" O.C. 4'-0" WALL OPENINGS - (1) 3 1/2" x 20 GA. TRACK AS HEADER

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

> ILDING ARCHITECT STAMP DATE SIGNED DATE SIGNED JUL 15 2003 MAY 2 1 2003 TUENDE EAMOLS 8-40-5004 LUCENSE EXPIRES 6-10-2004 STRUCTURAL ENGINEER STAMP 12/1/02 DRAWN BY JAG1/4" = 1-0"**APPROVED** REVISIONS STATE AGENCY STAMP JUL 2 4 2003 IDENTINCÁTION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 5-30-05 SHEET NO. S-2

THIS DRA BE REPR OF DIREC IN WHOLE OR FOR THE OR PART AND WRIT MATERIAL MATERIAL MATERIAL MATERIAL MAS.I. ING

STATE AGENCY STAMP

