

NAPA VALLEY VINTNERS TEACHING WINERY

Napa Valley College

2277 NAPA-VALLEJO HIGHWAY
NAPA, CALIFORNIA 94558

FILE NO. 28-C1 APPLICATION NO. 01-103886

OWNER'S RECORD DOCUMENT - FOR REFERENCE ONLY

ARCHITERRA
100 WIKIUP DRIVE
SANTA ROSA, CA 95403
(707) 578-7000
FAX 535-0247

REVISIONS

DONALD S. MACKY, A.I.A.
1770 KING AVENUE
NAPA, CALIFORNIA 94559
ARCHITECT
CERTIFICATE NO. C751

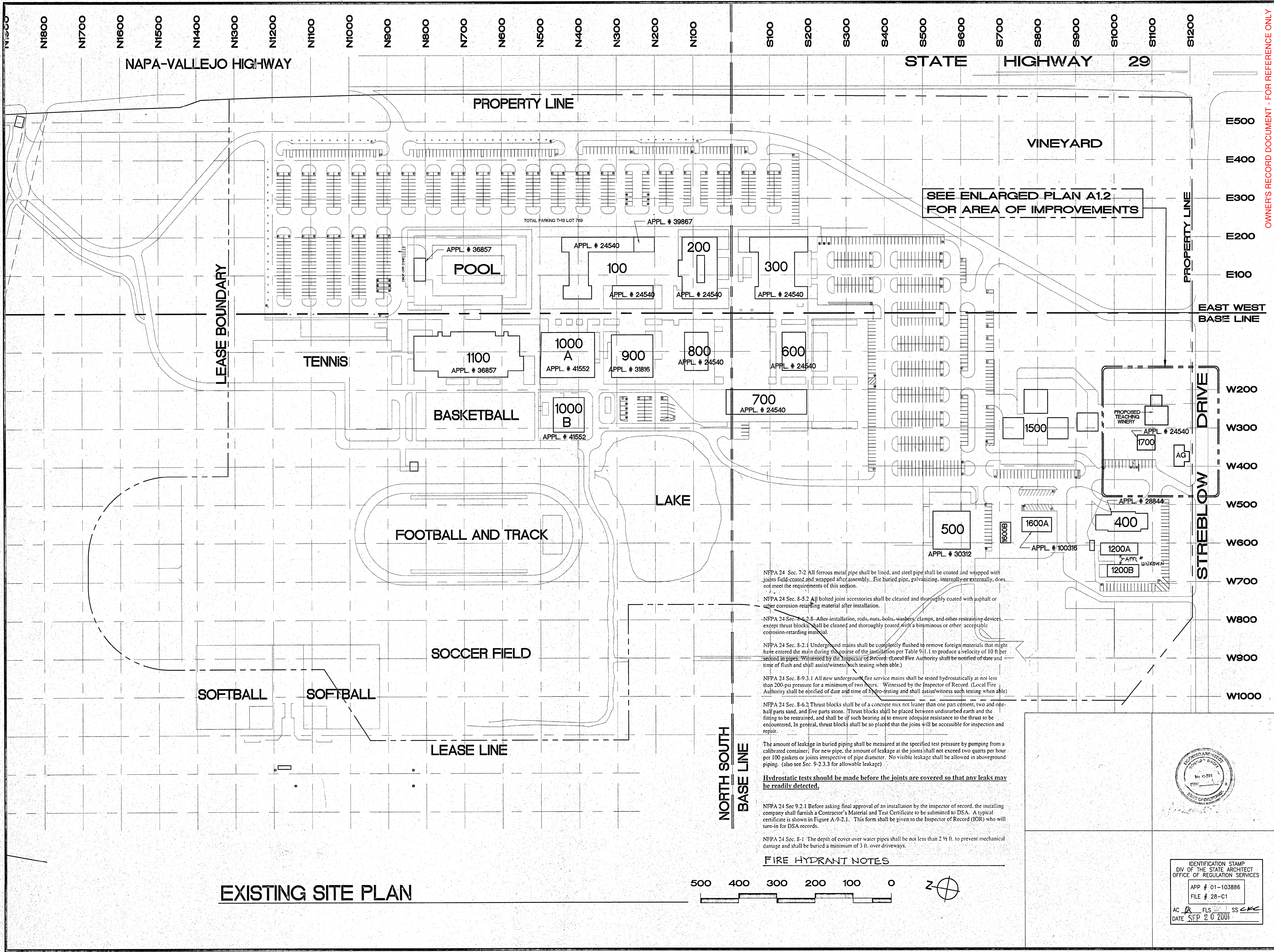
NAPA VALLEY VINTNERS
TEACHING WINERY
Napa Valley College
Napa, California

COVER
SHEET

DATE: JULY 26, 2001
SCALE: NOTED
DRAWN BY: PLP
JOB: 00-107

A0.1

ABBREVIATIONS	SUPPLEMENTAL CONDITIONS	PROJECT PARTICIPANTS	DRAWING INDEX																																																																																																																																																																																																																																																								
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TAPE ONLY UNLESS NOTED OTHERWISE</td></tr> <tr><td>CONC</td><td>CONCRETE</td><td>GWB</td><td>GYPSUM WALLBOARD</td><td>PSF</td><td>PLYWOOD SUB-FLOOR</td><td>UNO</td><td>UNLESS NOTED OTHERWISE</td></tr> <tr><td>CS</td><td>CONCRETE SLAB</td><td>GX</td><td>5/8" TYPE "X" GYPSUM BOARD</td><td>PLYWD</td><td>PLYWOOD</td><td>VCT</td><td>VINYL COMPOSITION TILE</td></tr> <tr><td>CT</td><td>CERAMIC TILE</td><td>GYP</td><td>GYPSUM</td><td>#</td><td>POUND OR NUMBER</td><td>VERT</td><td>VERTICAL</td></tr> <tr><td>CPT</td><td>CARPET</td><td>HM</td><td>HOLLOW METAL</td><td>R4</td><td>4" RUBBER BASE</td><td>W</td><td>WIDTH</td></tr> <tr><td>DBL</td><td>DOUBLE</td><td>HORIZ</td><td>HORIZONTAL</td><td>R6</td><td>6" RUBBER BASE</td><td>w/</td><td>WITH</td></tr> <tr><td>DET</td><td>DETAIL</td><td></td><td></td><td></td><td></td><td>WD</td><td>WOOD</td></tr> <tr><td>DS</td><td>DOWNSPOUT</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	∅	DIAMETER	DSA	DIVISION OF STATE ARCHITECT	ID	INSIDE DIAMETER	RAG	RETURN AIR GRILLE	°	DEGREE	DWG	DRAWING	INT	INTERIOR	RHWS	ROUND HEADS WOOD SCREW	∠	ANGLE	EA	EACH	L	LENGTH	RO	ROUGH OPENING	□	SQUARE FOOT	EF	FLUID APPLIED EPOXY FLOORING	LO	LOCKED END	RWL	RAINWATER LEADER	AB	ANCHOR BOLT	EQ	EQUAL	MAX	MACHINE BOLT	SAG	SUPPLY AIR GRILL	ACC	ACCESSIBLE SIGNAGE	ETC	ETCETERAS	MB	MAXIMUM	SC	SOLID CORE	⊙	EXTERIOR	(E)	EXISTING	MECH	MECHANICAL	SCD	SEE CIVIL DRAWINGS	ACOUS	ACOUSTIC	EXT	EXTERIOR	MFT	MINERAL FIBER	SED	SEE ELECTRICAL DRAWINGS	ACT	ACOUSTIC CEILING TILE	FE	FIRE EXTINGUISHER	AC	ACOUSTIC TILE	SFC	SELF-CLOSER	AFF	ABOVE FINISH FLOOR	FEC	FIRE EXTINGUISHER CABINET	MIN	MINIMUM	SIM	SIMILAR	ALUM	ALUMINUM	FHWS	FLAT HEAD WOOD SCREW	MOD	MODULAR	SLR	CLR SEALER	&	AND	FIP	FAMOUS IDAHO POTATOES	MTL	METAL	SMD	SEE MECHANICAL DRAWINGS	⊙	AT	FIN	FINISH	(N)	NEW	SMS	SHEET METAL SCREW	BD	BOARD	FLR	FLOOR	NIC	NOT IN CONTRACT	SPD	SEE PLUMBING DRAWINGS	BDD	BACK DRAFT DAMPER	FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	NOM	NOMINAL	SOFT	SQUARE FEET	BLK	BLOCK	FR	FREE END	NTS	NOT TO SCALE	SS	STAINLESS STEEL	BLKG	BLOCKING	FRP	FIBERGLASS REINFORCED PANEL	OC	ON CENTER	STL	STEEL	BM	BEAM	FTG	FOOTING	OD	OUTSIDE DIAMETER	STS	SELF TAPPING SCREW	BOT	BOTTOM	G2	1/2" GYPSUM BOARD	OPH	OPPOSITE HAND	SV	RESILIENT SHEET VINYL WITH 6" INTEGRAL COVERED BASE	BUR	BUILT-UP ROOFING	GB	5/8" GYPSUM BOARD	PG	PAINT SEMI-GLOSS	T&G	TONGUE & GROOVE	CLC	CENTERLINE	GA	GAUGE	PH	PANIC HARDWARE	TK	TACKABLE PANELS	CLS	CEILING	GM	1/2" MOISTURE RESISTANT GYPSUM BOARD	PLAM	PLASTIC LAMINATE	TS	TUBE STEEL	COL	COLUMN	GSM	GALVANIZED SHEET METAL	PLY	PLYWOOD	TYP	TYPICAL	COMP	COMPOSITE	GV	GRAVITY VENT	PS	PAINT SMOOTH FINISH (ENAMEL/EGGSHELL)	UF	UNFINISHED - 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INSPECTOR APPROVED BY DSA, INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-338(B) AND 4-338. TESTS AND TESTING LABORATORY PER SECTION 4-335 (OWNER SHALL PAY THE TESTING LABORATORY). SPECIAL INSPECTION PER SECTION 4-333(C). CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343(C). ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R.: -DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4-333(A) AND 4-313. -DUTIES OF CONTRACTOR PER SECTION 4-343. -VERIFIED REPORTS PER SECTION 4-336. GOVERNING CODES: TITLE 24, C.C.R. A COPY OF PART 1 & 2 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION. DSA SHALL BE NOTIFIED ON START OF CONSTRUCTION PER SECTION 4-331. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-331. DSA IS NOT SUBJECT TO ARBITRATION. 	<p>OWNER: NAPA VALLEY COLLEGE 2277 NAPA-VALLEJO HIGHWAY NAPA, CA 94558</p> <p>ARCHITECT: DONALD S. MACKY 1770 KING AVE NAPA, CA 94558 707/224-7613</p> <p>CIVIL ENGINEER: RIECHERS SPENCE & ASSOCIATES, INC. 1541 THIRD STREET NAPA, CA 94559 707/252-3301</p> <p>STRUCTURAL: KENT ENGINEERING 3508 AARON DRIVE SANTA ROSA, CA 95404 707/526-7956</p> <p>ELECTRICAL: SUITE 16 ELECTRICAL ENGINEERING 1400 N. DUTTON AVE, SUITE 24 SANTA ROSA, CA 95401 707/522-8175</p> <p>MECH/PLUMBING: COSTA ENGINEERS 438 FIRST STREET, SUITE 250 SANTA ROSA, CA 95401 707/527-9176</p>	<p>GENERAL</p> <p>A0.1 COVER SHEET</p> <p>SITE + CIVIL DRAWINGS</p> <p>A1.1 SITE PLAN A1.2 ENLARGED SITE PLAN C1 SITE PLAN C2 SITE DETAILS AND SPECIFICATIONS</p> <p>ARCHITECTURAL</p> <p>RA1.1 FLOOR PLAN RA2.1 EXTERIOR ELEVATIONS RA2.2 EXTERIOR ELEVATIONS RA3.1 BUILDING & WALL SECTIONS RA4.1 ROOF PLAN RA5.1 INTERIOR ELEVATIONS RA5.2 INTERIOR ELEVATIONS RA6.1 REFLECTED CEILING PLAN RA7.1 SCHEDULES & WALL TYPES RA8.1 ARCHITECTURAL DETAILS RA8.2 ARCHITECTURAL DETAILS</p> <p>STRUCTURAL</p> <p>RS1.0 NOTES, SHEARWALL & COLUMN SCHED'S RS1.1 FOUNDATION PLAN RS2.1 FOUNDATION DETAILS RS2.2 FOUNDATION DETAILS RS3.1 CEILING FRAMING PLAN RS4.1 WALL FRAMING DETAILS RS5.1 ROOF FRAMING PLAN - STEEL RS5.2 ROOF FRAMING PLAN - WOOD RS6.1 ROOF FRAMING DETAILS RS6.2 ROOF FRAMING DETAILS</p> <p>ELECTRICAL</p> <p>E0.1 ELECTRICAL, SYMBOLS, & ABBREVIATIONS & FIXTURE SCHED E1.0 ELECTRICAL SITE PLAN E2.0 ELECTRICAL LIGHTING PLAN E3.0 ELECTRICAL POWER & TELECOM PLAN E4.0 ELECTRICAL MECH EQUIP PLAN E5.0 ELECT SINGLE LINE DIAGRAM & PANEL SCHEDULES E6.0 FIRE ALARM DIAGRAM & CALCS E7.0 DETAILS</p> <p>MECHANICAL DRAWINGS</p> <p>M1.0 SCHEDULES & LEGEND M2.1 MECHANICAL PLAN M3.1 MECHANICAL DETAILS M3.2 MECHANICAL DETAILS</p> <p>PLUMBING DRAWINGS</p> <p>P1.0 SCHEDULES & LEGEND P2.1 PLUMBING WASTE & VENT PLAN P2.2 PLUMBING DOM. 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DS	DOWNSPOUT																																																																																																																																																																																																																																																										
<p>SYMBOLS</p>	<p>APPLICABLE BUILDING CODES</p> <ul style="list-style-type: none"> -STATE OF CALIFORNIA TITLE 24 (1998 EDITION) - PART 1 BUILDING STANDARDS ADMINISTRATIVE CODE -STATE OF CALIFORNIA TITLE 24 (1998 EDITION) - PART 2/VOLUME 1 CALIFORNIA BUILDING CODE/AMENDMENT WITH 1997 UBC, VOLUME 1 -STATE OF CALIFORNIA TITLE 24 (1998 EDITION) - PART 2/VOLUME 2 CALIFORNIA BUILDING CODE/AMENDMENT WITH 1997 UBC, VOLUME 2 -1997 UNIFORM BUILDING CODE, VOLUME 3 -STATE OF CALIFORNIA TITLE 24 (1998 EDITION) - PART 3 CALIFORNIA ELECTRICAL CODE/AMENDMENT WITH A 1996 NEC -STATE OF CALIFORNIA TITLE 24 (1998 EDITION) - PART 4 CALIFORNIA MECHANICAL CODE/AMENDMENT WITH A 1997 UMC -STATE OF CALIFORNIA TITLE 24 (1998 EDITION) - PART 5 CALIFORNIA PLUMBING CODE WITH 1997 UPC -STATE OF CALIFORNIA TITLE 24 (1998 EDITION) - PART 6 CALIFORNIA ENERGY CODE -STATE OF CALIFORNIA TITLE 24 (1998 EDITION) - PART 9 CALIFORNIA FIRE CODE/AMENDMENT WITH A 1997 UFC -STATE OF CALIFORNIA TITLE 24 (1998 EDITION) - PART 12 CALIFORNIA REFERENCED STANDARDS CODE -TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS NATIONAL REFERENCE STANDARDS -ASD (AISC) MANUAL OF STEEL CONSTRUCTION, 9TH EDITION -1991 REVISED NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION -ACI-318-95 CODE & COMMENTARY -NFPA 13, AUTOMATIC SPRINKLER SYSTEM, 1996 EDITION -NFPA 14, INSTALLATION OF STANDPIPE & HOSE SYSTEMS, 1996 EDITION -NFPA 17-A, WET CHEMICAL EXTINGUISHING SYSTEMS, 1994 EDITION -NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS, 1995 EDITION -NFPA 72, NATIONAL FIRE ALARM CODE, 1996 EDITION (AS AMENDED BY SFM) 	<p>SCOPE OF WORK</p> <p>NEW TEACHING WINERY & CRUSH PAD & ASSOCIATED SITE IMPROVEMENTS INCLUDING PARKING, WALKWAYS, LANDSCAPE PLANTERS, AND FIRE HYDRANT.</p>	<p>BUILDING DATA</p> <p>T24 CCR 1998 EDITION</p> <p>OCCUPANCY GROUP E1</p> <p>CONSTRUCTION TYPE V-NR</p> <p>STORIES 1</p> <p>DESCRIPTION OF USE CLASSROOM</p> <p>TOTAL BUILDING AREA BUILDING 2,560 SQFT COVERED CRUSH PAD 960 SQFT TOTAL AREA 3,520 SQFT</p> <p>SEISMIC ZONE 4</p>																																																																																																																																																																																																																																																								
<p>REVISION REFERENCE</p> <p>COLUMN REFERENCE GRIDS</p> <p>TRUE NORTH</p> <p>REFERENCE NORTH</p> <p>STAIR DIRECTION, # RISERS & TREADS</p> <p>ROOM NAME & NUMBER</p> <p>EQUIPMENT NUMBER</p> <p>CENTER LINES, FLOOR LINES AT EXTERIOR ELEVATIONS, PROJECTED LINES</p> <p>PROPERTY LINES, BOUNDARY LINES</p> <p>HIDDEN LINES</p> <p>BREAK LINES</p>	<p>WOOD STUD WALL</p> <p>MASONRY</p> <p>CONCRETE</p> <p>INSULATION (LOOSE OR BATT)</p> <p>INSULATION (RIGID)</p> <p>EARTH</p> <p>SAND / PLASTER / MORTAR</p> <p>ROCK FILL</p> <p>METAL (LARGE SCALE)</p> <p>(SHEET) METAL</p> <p>GYPSUM WALLBOARD</p> <p>FINISHED WOOD</p> <p>ROUGH WOOD (CONTINUOUS MEMBER)</p> <p>ROUGH WOOD (NON-CONTINUOUS MEMBER)</p> <p>PLYWOOD</p> <p>TILE (CERAMIC)</p>	<p>VICINITY MAP</p>	<p>APPROVALS</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> </div> <p>STATE OF CALIFORNIA DEPARTMENT OF GENERAL SERVICES</p> <p>OCT 15 2001</p> <p>DIVISION OF THE STATE ARCHITECT</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES</p> <p>APP # 01-103886 FILE # 28-C1</p> <p>AC <i>Sw. FLS.</i> <i>SS Chen</i> DATE <i>SEP 20 2001</i></p> </div>																																																																																																																																																																																																																																																								



SEE ENLARGED PLAN A1.2 FOR AREA OF IMPROVEMENTS

NFPA 24 Sec. 7-2 All ferrous metal pipe shall be lined, and steel pipe shall be coated and wrapped with joints field-coated and wrapped after assembly. For buried pipe, galvanizing, internally or externally, does not meet the requirements of this section.

NFPA 24 Sec. 8-5.2 All bolted joint accessories shall be cleaned and thoroughly coated with asphalt or other corrosion-retarding material after installation.

NFPA 24 Sec. 8-6.2 8. After installation, rods, nuts, bolts, washers, clamps, and other restraining devices, except thrust blocks shall be cleaned and thoroughly coated with a bituminous or other acceptable corrosion-retarding material.

NFPA 24 Sec. 8-2.1 Underground mains shall be completely flushed to remove foreign materials that might have entered the main during the course of the installation per Table 911.1 to produce a velocity of 10 ft per second in pipes. Witnessed by the Inspector of Record. (Local Fire Authority shall be notified of date and time of flush and shall assist/witness such testing when able.)

NFPA 24 Sec. 8-9.3.1 All new underground fire service mains shall be tested hydrostatically at not less than 200 psi pressure for a minimum of two hours. Witnessed by the Inspector of Record. (Local Fire Authority shall be notified of date and time of hydro-testing and shall assist/witness such testing when able.)

NFPA 24 Sec. 8-6.2 Thrust blocks shall be of a concrete mix not leaner than one part cement, two and one-half parts sand, and five parts stone. Thrust blocks shall be placed between undisturbed earth and the fitting to be restrained, and shall be of such bearing as to ensure adequate resistance to the thrust to be encumbered. In general, thrust blocks shall be so placed that the joints will be accessible for inspection and repair.

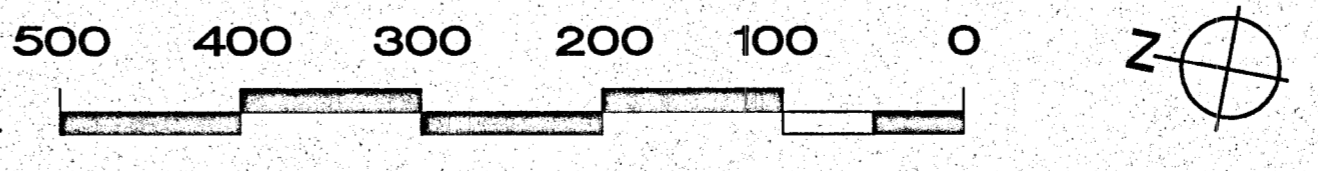
The amount of leakage in buried piping shall be measured at the specified test pressure by pumping from a calibrated container. For new pipe, the amount of leakage at the joints shall not exceed two quarts per hour per 100 gaskets or joints irrespective of pipe diameter. No visible leakage shall be allowed in aboveground piping. (also see Sec. 9-2.3.3 for allowable leakage)

Hydrostatic tests should be made before the joints are covered so that any leaks may be readily detected.

NFPA 24 Sec 9.2.1 Before asking final approval of an installation by the inspector of record, the installing company shall furnish a Contractor's Material and Test Certificate to be submitted to DSA. A typical certificate is shown in Figure A-9-2.1. This form shall be given to the Inspector of Record (IOR) who will turn-in for DSA records.

NFPA 24 Sec. 8-1 The depth of cover over water pipes shall be not less than 2 1/2 ft. to prevent mechanical damage and shall be buried a minimum of 3 ft. over driveways.

FIRE HYDRANT NOTES



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ARCHITECT
CERTIFICATE NO. C751

**NAPA VALLEY VINTNERS
TEACHING WINERY**
Napa Valley College
Napa, California

**EXISTING
SITE PLAN**

DATE: JULY 26, 2001

SCALE: NOTED

DRAWN BY: PLP

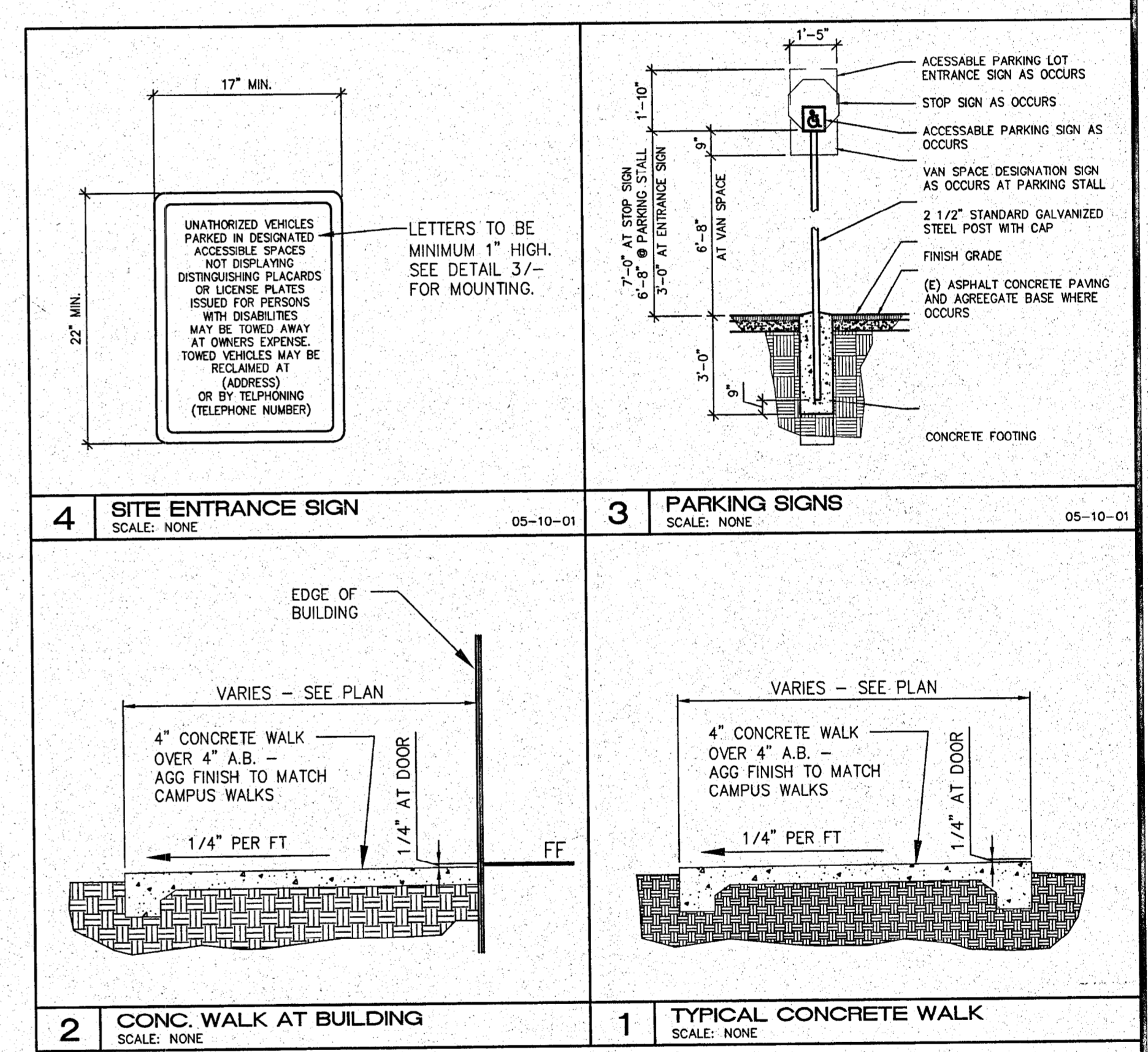
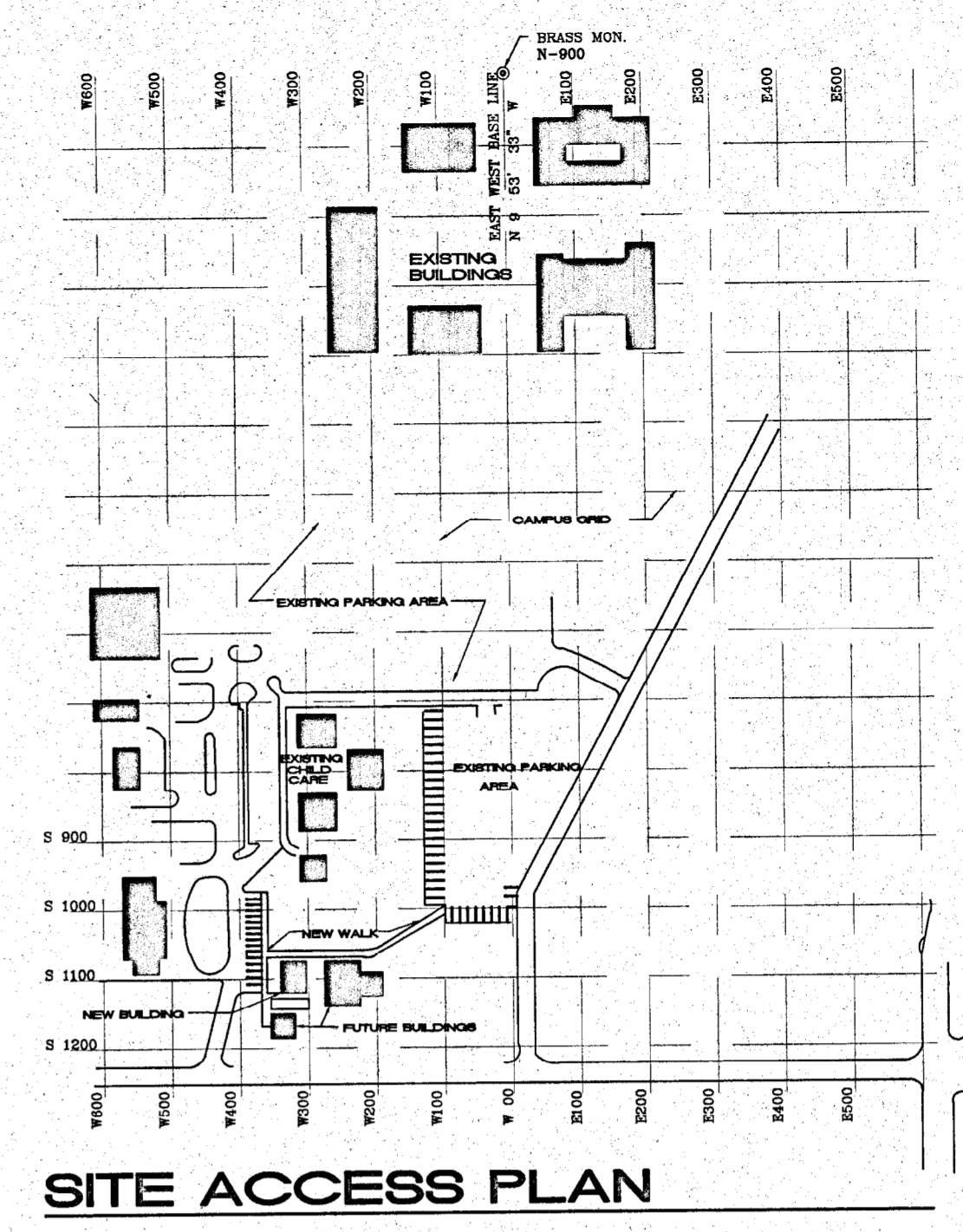
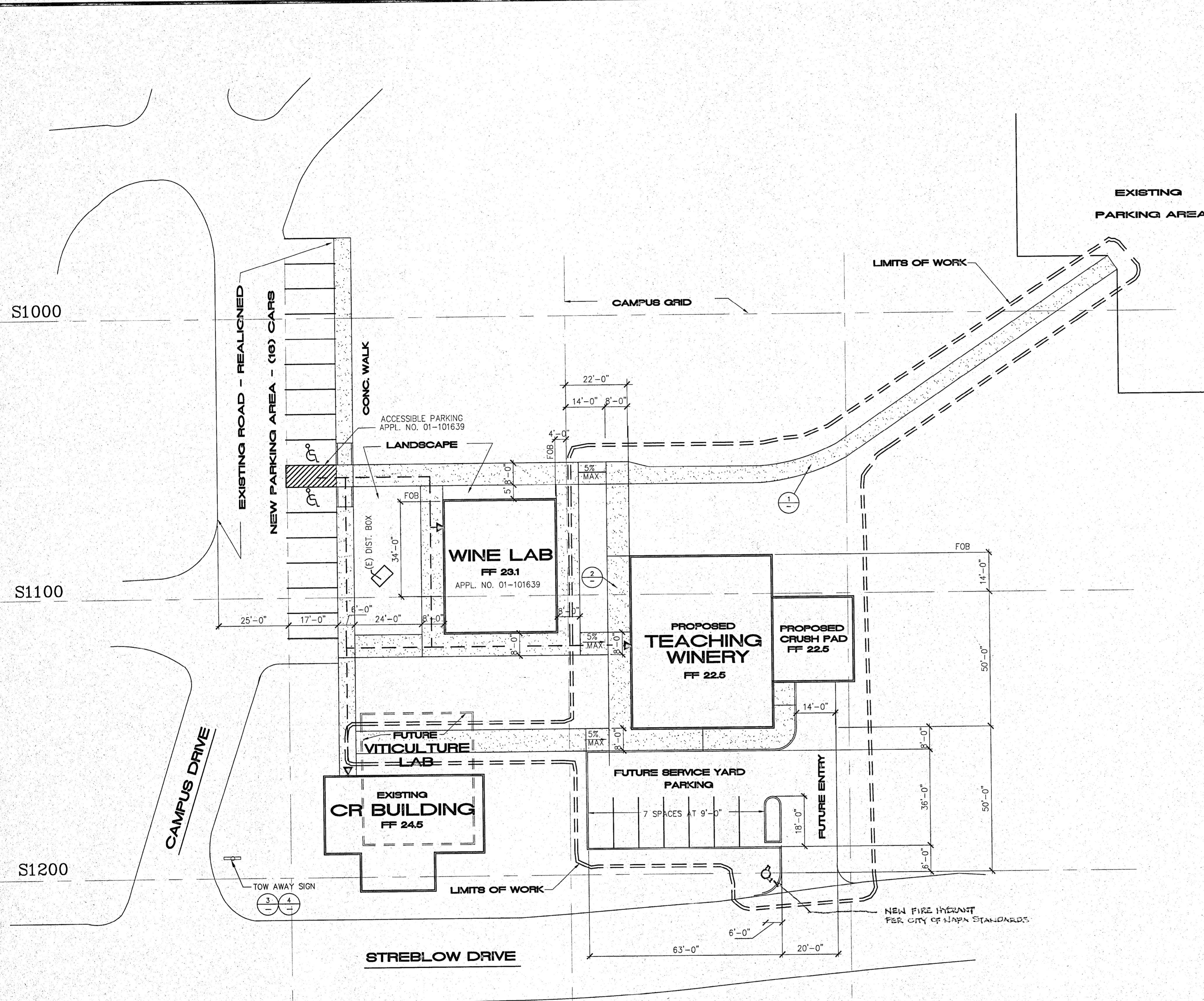
JOB: 00-107

A1.1



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FILE # 28-C1
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DATE SEP 20 2001

EXISTING SITE PLAN



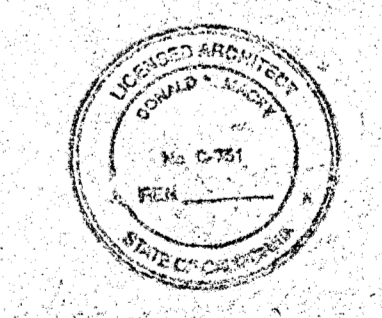
SITE PLAN
SCALE: 1" = 20'-0"

NOTE:
ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:12 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. MAXIMUM CROSS SLOPE OF 2%. ACCESSIBLE PATH OF TRAVEL TO BE SLIP RESISTANT. ARCHITECT AND CONTRACTOR TO VERIFY THAT ALL BARRIERS THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED PER SECTION 1133B.7.

LEGEND
--- ACCESSIBLE PATH
▲ ACCESSIBLE BUILDING ENTRY

— FIRE DEPARTMENT ACCESS, EGRESS AND GATED ENTRANCES HAVE BEEN REVIEWED FOR COMPLIANCE WITH TITLE 19, CALIFORNIA CODE OF REGULATIONS SUB CHAPTER 1, ARTICLE 3.05 (ACCESS ROADS) AND ARTICLE 3.16 (GATED ENTRANCES TO SCHOOLS SITES).
— FIRE FLOW AND FIRE HYDRANTS HAVE BEEN REVIEWED FOR COMPLIANCE WITH TITLE 24, PART 9, APPENDIX III-AA (FIRE FLOW) AND APPENDIX III-BB (FIRE HYDRANT LOCATION AND DISTRIBUTION). NOTED APPENDICES ARE FROM 1997 UFC WITH CALIFORNIA AMENDMENTS.

LOCAL FIRE AUTHORITY: CITY OF NAPA FIRE DEPT.
ADDRESS: 1100 FIRST ST
CITY / STATE / ZIP: NAPA, CA 94559
APPROVAL ISSUED BY: [Signature]
RANK / TITLE: CAPTAIN
PHONE NUMBER: (707) 257-9500 DATE: 9-4-01



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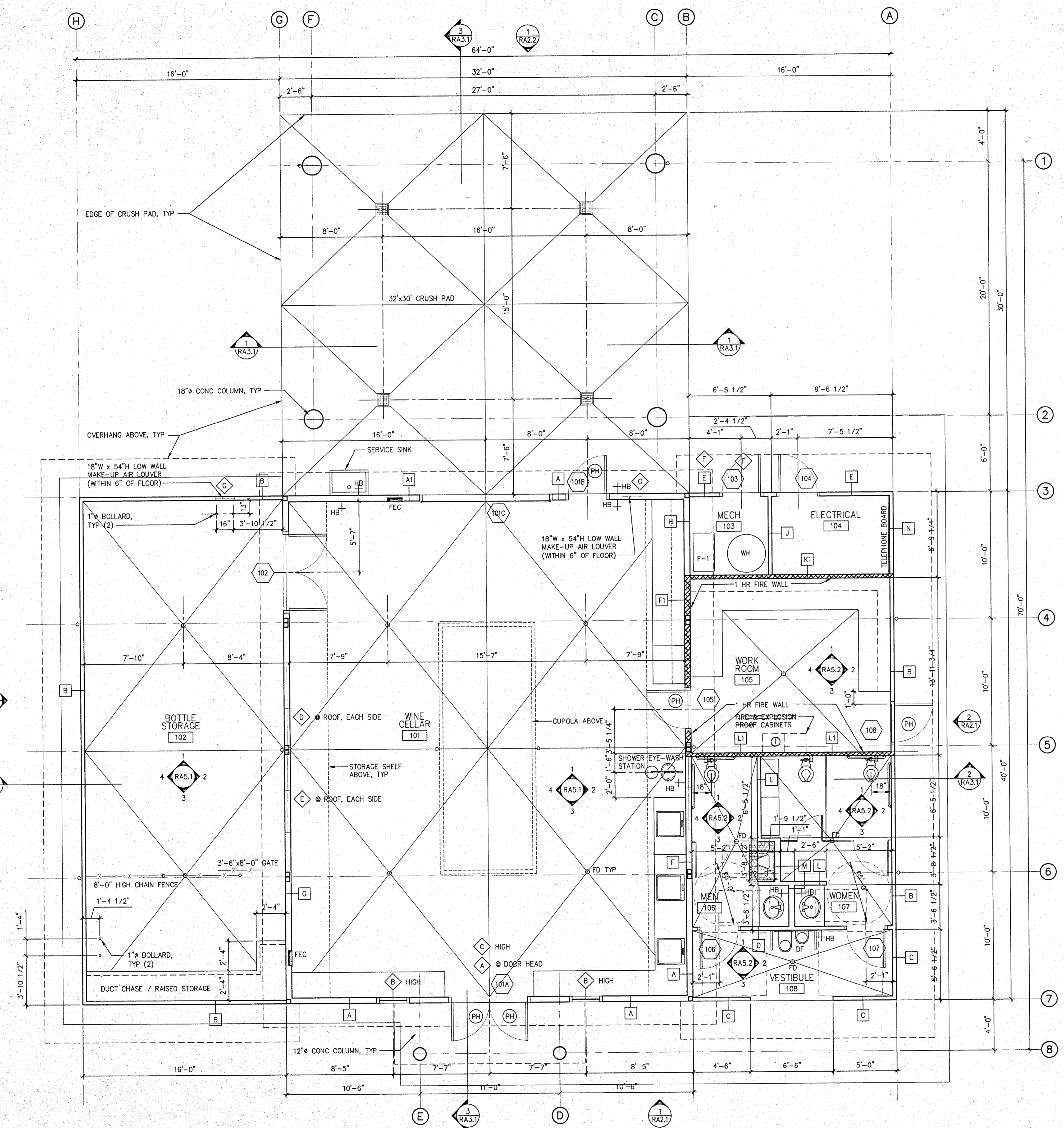
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Napa Valley College
Napa, California

**ENLARGED
SITE PLAN**

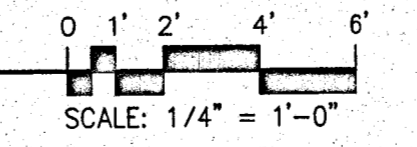
DATE: JULY 26, 2001
SCALE: NOTED
DRAWN BY: PLP
JOB: 00-107

A1.2

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FLOOR PLAN



LEGEND:

- X (RAS.1) X INTERIOR ELEVATIONS
 - X (RAS.2) X EXTERIOR ELEVATIONS
 - X (RAS.3) X WALL SECTION OR DETAIL
 - X (101X) DOOR NUMBER PH = PANIC HARDWARE
 - X (101X) WINDOW TYPE
 - FEC 2A 10BC DRY CHEMICAL 5LB FIRE EXTINGUISHER (BY OWNER) w/ VALID CALIFORNIA CERTIFICATION TAG ATTACHED IN SEMI-RECESSED CABINET
 - 1 HOUR FIRE WALL
 - RECESS CONC SLAB 2" FOR CERAMIC TILE
- NOTE: SEE INTERIOR ELEVATIONS FOR WALL MTD FIXTURE LOCATIONS & BLOCKING INFO SEE RAS.1 & RAS.2
- DIMENSIONS w/ ARROWS INDICATE MIN CLEAR FINISH-TO-FINISH REQUIREMENTS
- 36" MIN CLR

SHEET NOTES

- 1 PROVIDE SAFETY CABINETS BY LAB SAFETY SUPPLY AS FOLLOWS:
 - COMBINATION CORROSIVE ACID & FLAMMABLE CABINET 1A-6553
 - CORROSIVE BASE CABINET 1A-6504
 - CABINETS ARE N.I.C., SUPPLIED BY OWNER

CODE ANALYSIS

- CONSIDER (E) WINE LAB, (E) CR BUILDING & PROPOSED TEACHING WINERY TO BE ONE BUILDING:
- OCCUPANCY TYPE: B
- CONSTRUCTION TYPE: TYPE V-NON-RATED
- BASIC ALLOWABLE AREA: 8,000 SQ. FT.
- ACTUAL AREA:
 - (E) WINE LAB 1,920 SQ. FT.
 - (E) CR BUILDING 1,920 SQ. FT.
 - (N) TEACHING WINERY 3,520 SQ. FT.
- TOTAL ACTUAL AREA 7,360 SQ. FT.



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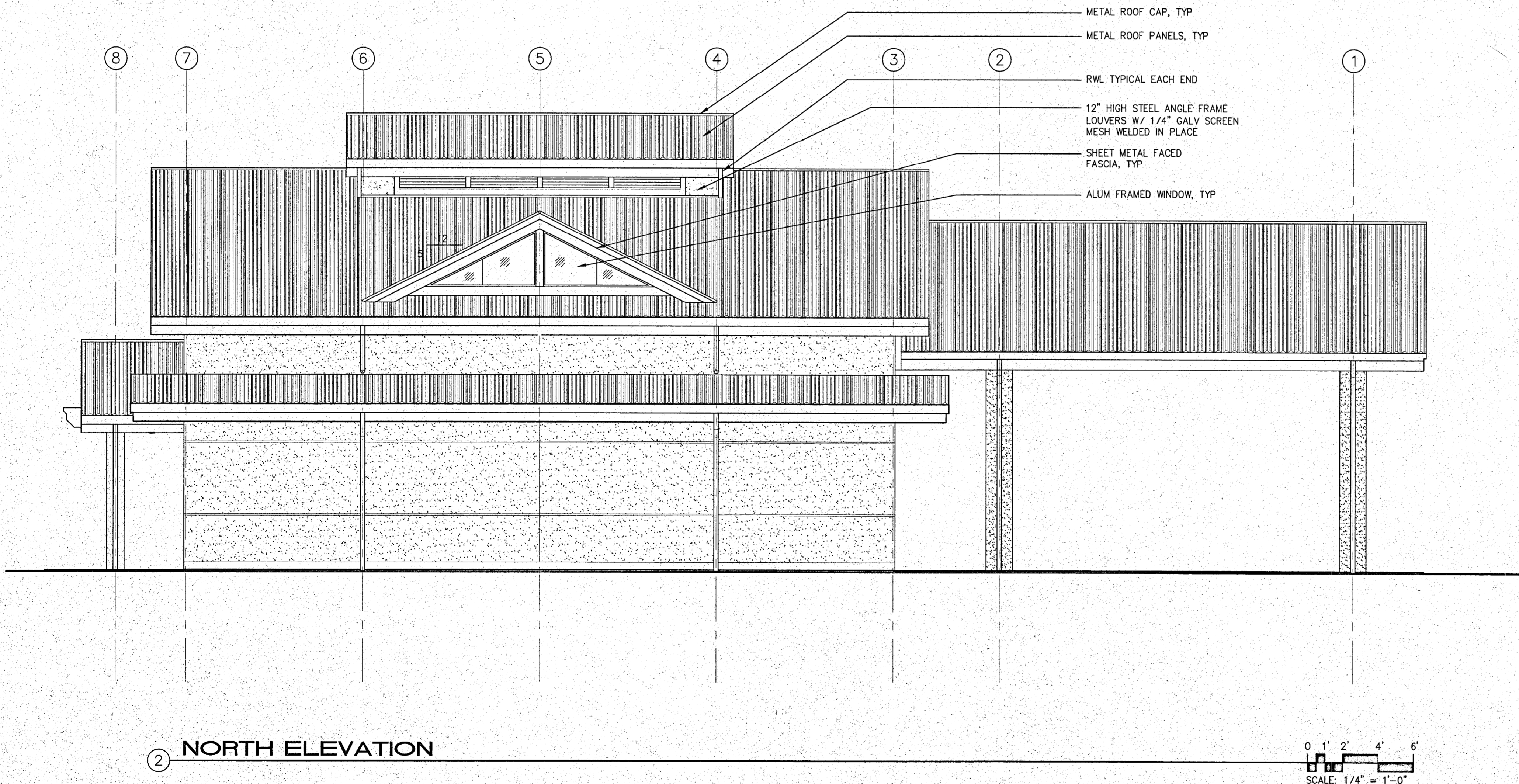
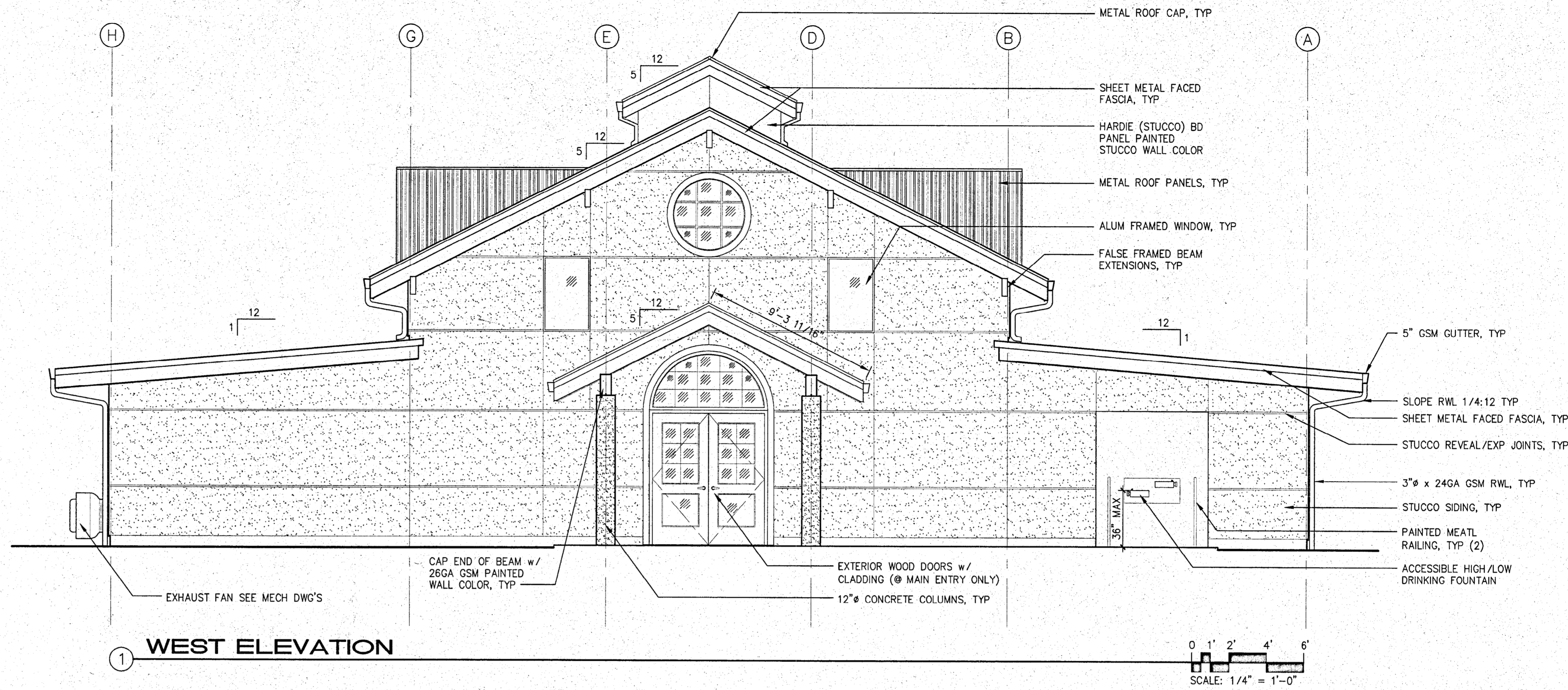
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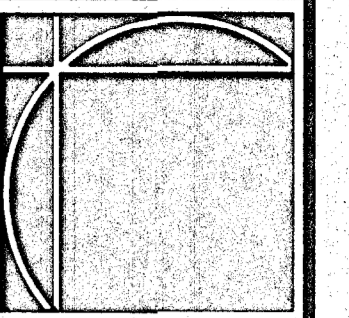
FLOOR PLAN

DATE: JULY 26, 2001
 SCALE: NOTED
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 JOB: 00-107

RA11



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**EXTERIOR
ELEVATIONS**

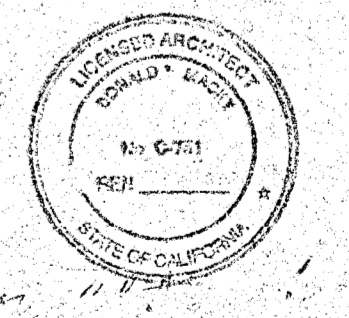
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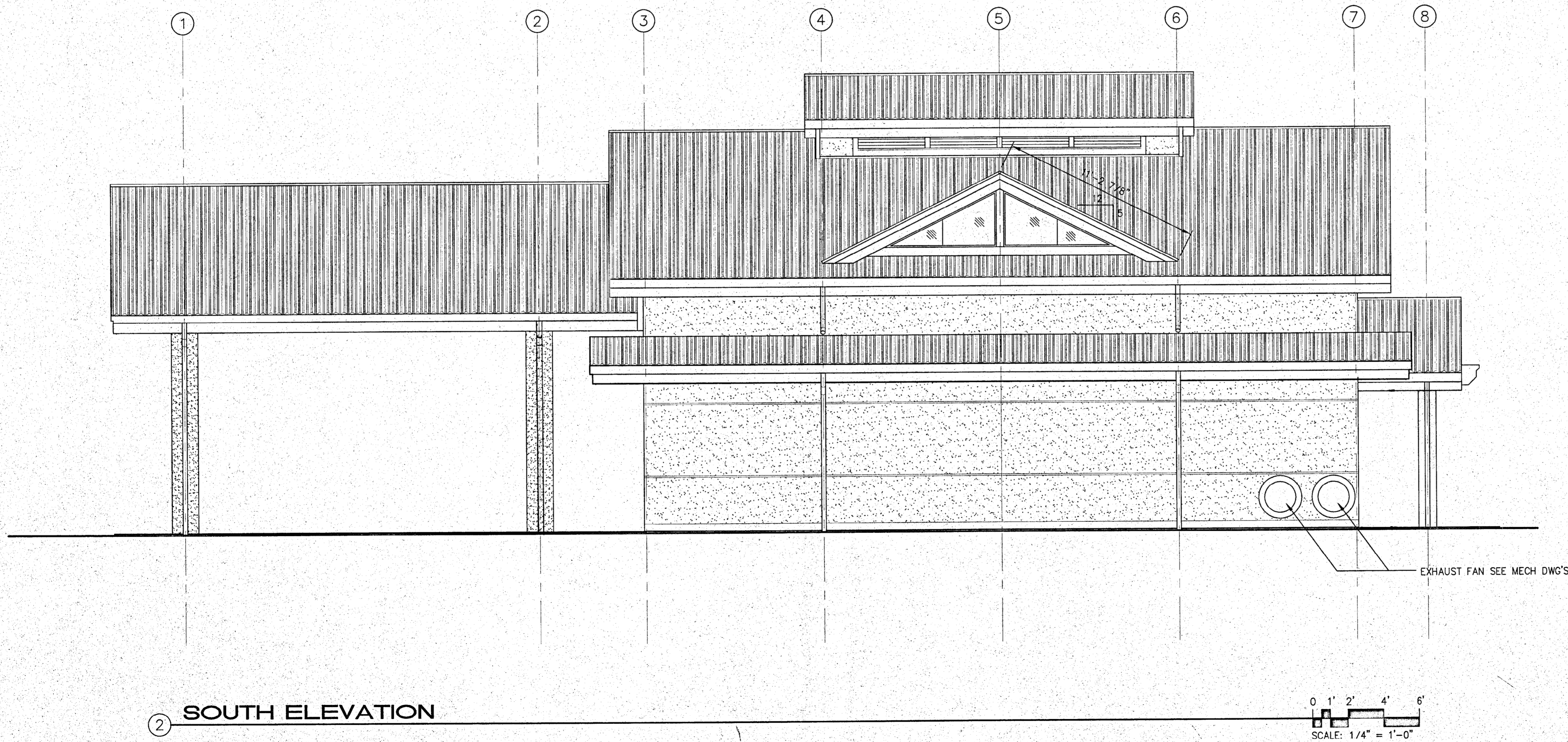
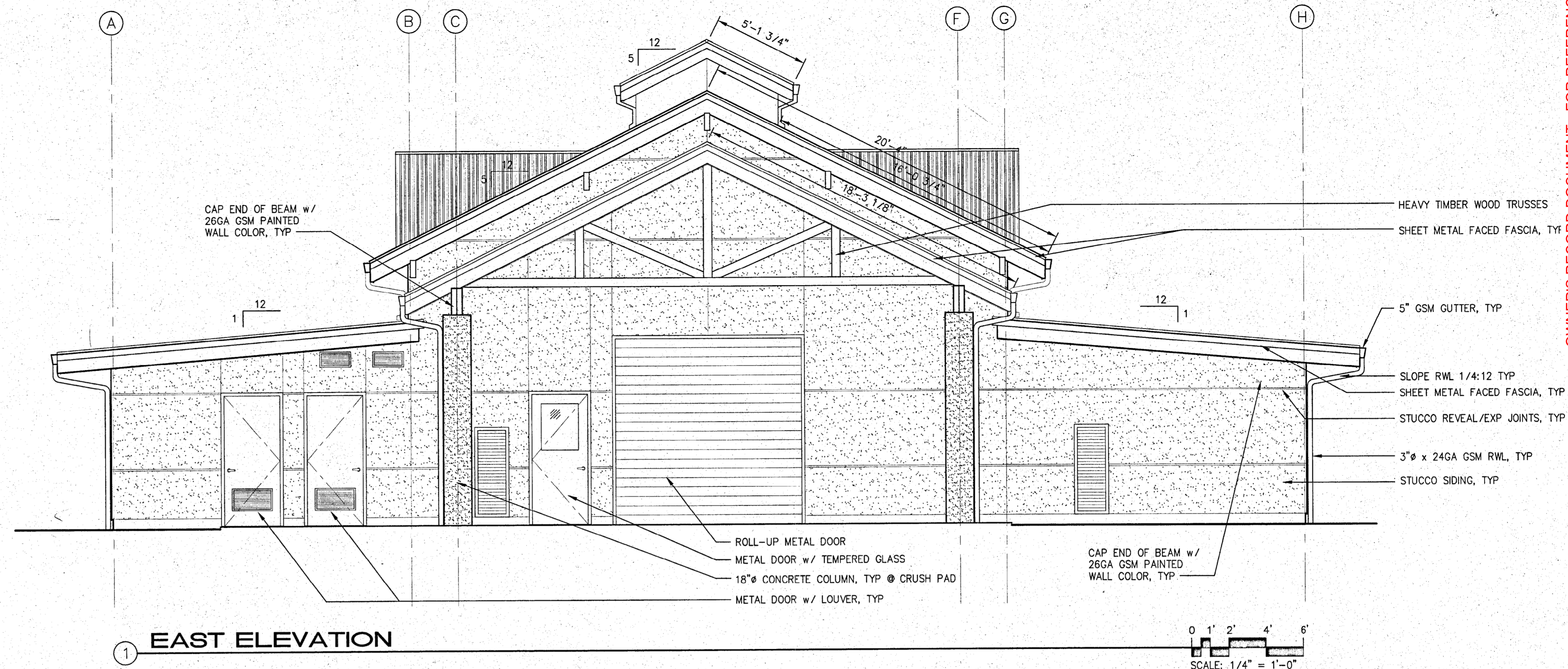
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JOB: 00-107

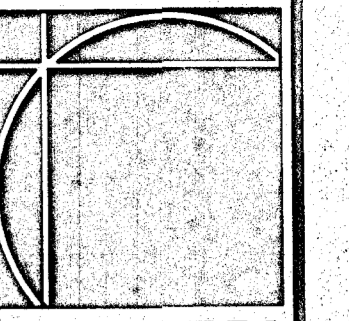
RA2.1



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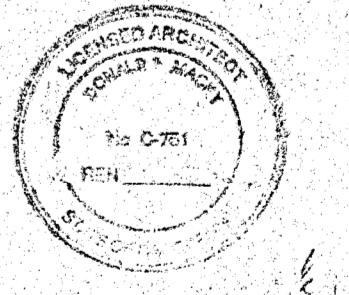
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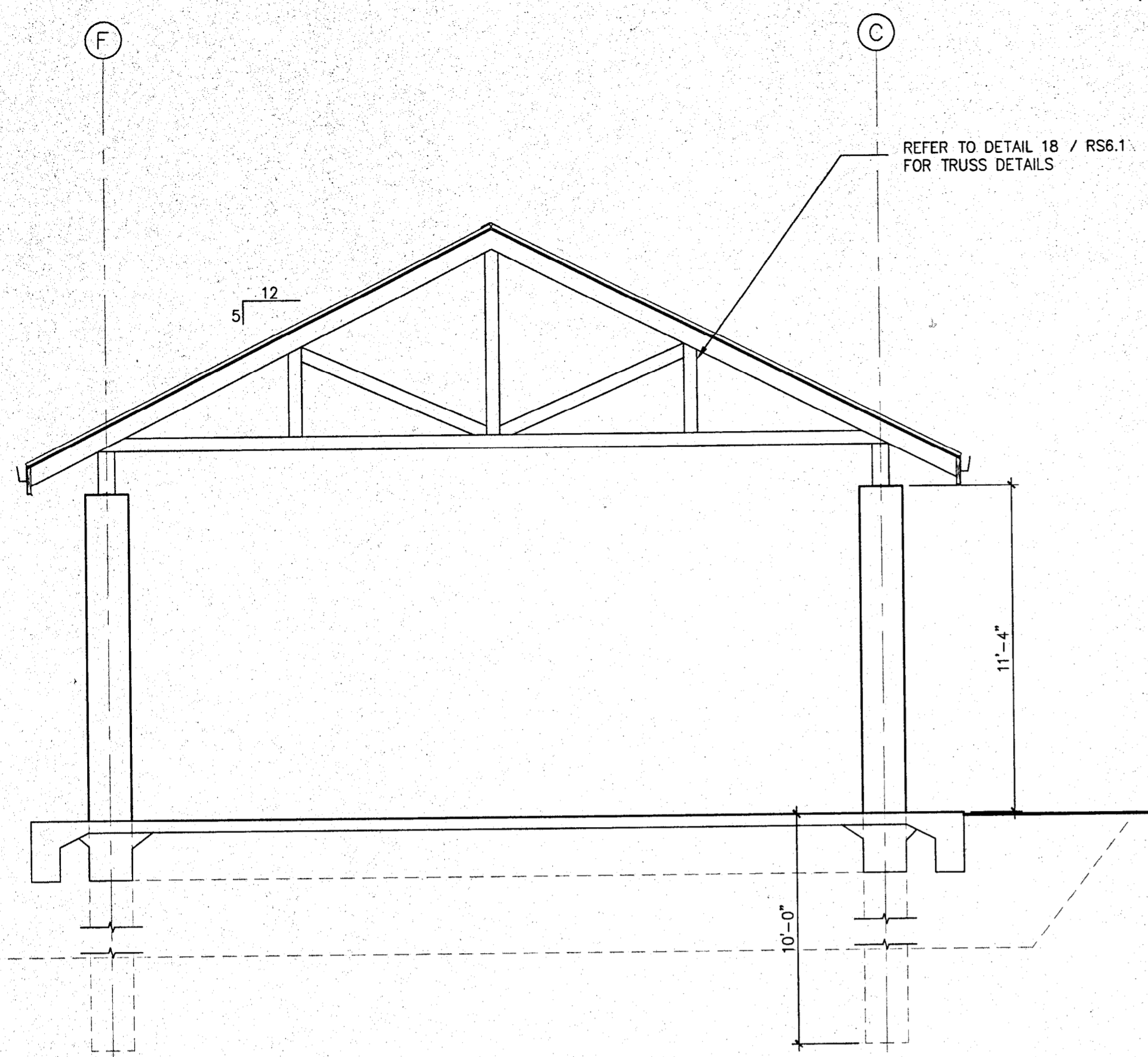
**EXTERIOR
ELEVATIONS**

DATE: JULY 26, 2001
SCALE: NOTED
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JOB: 00-107

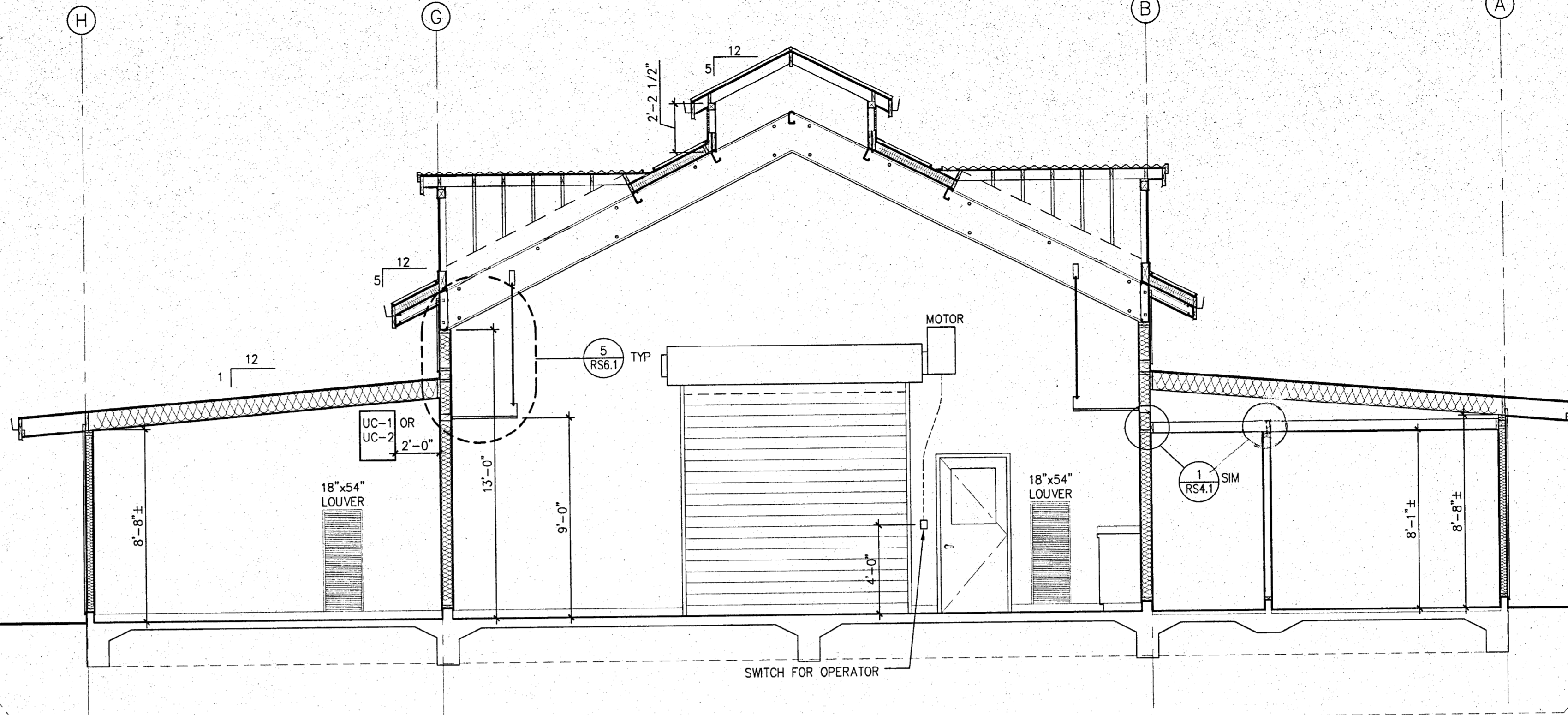
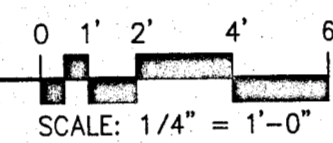
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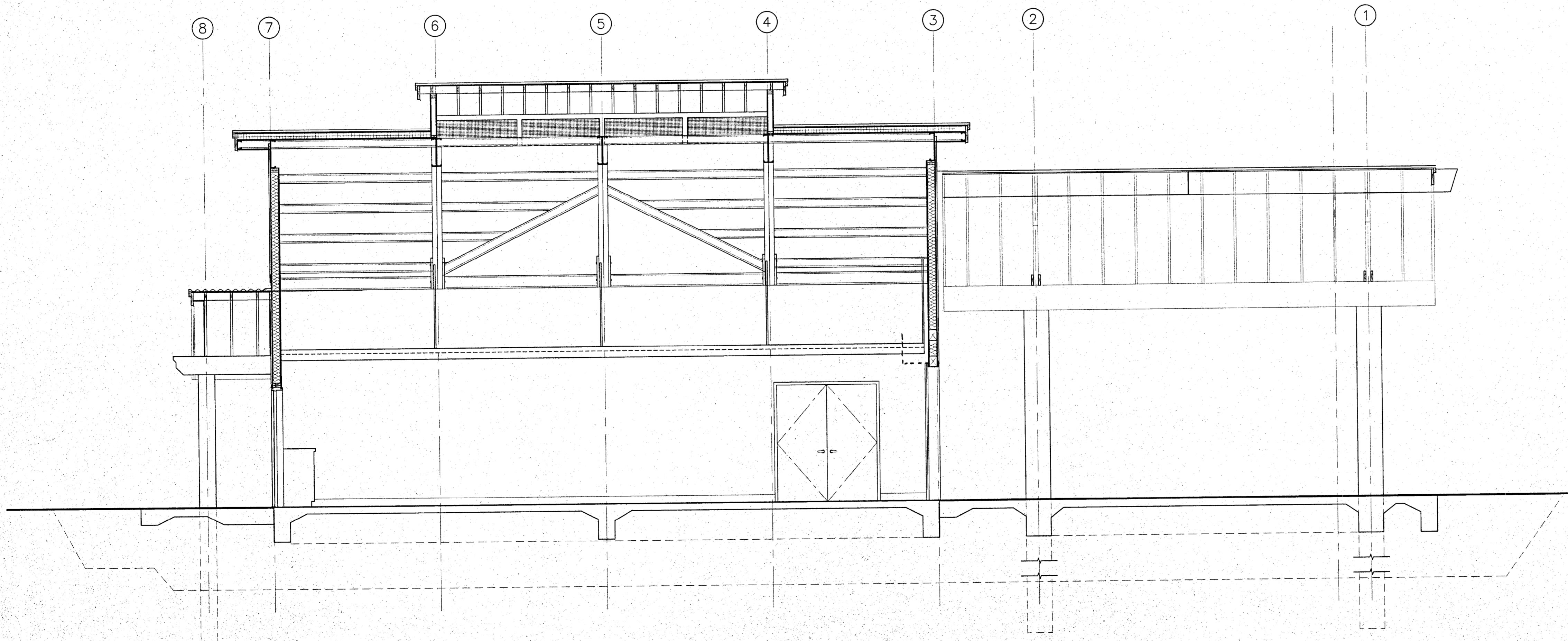
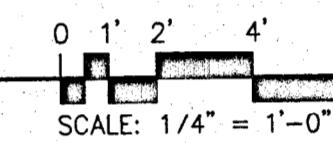
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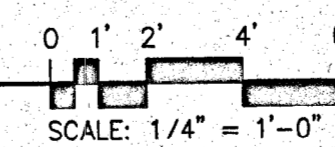
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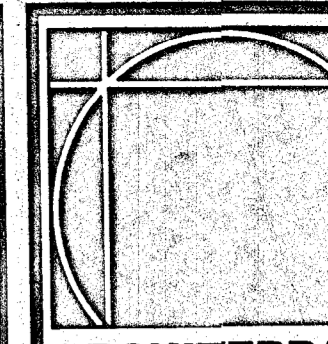
2 BUILDING SECTION



3 BUILDING SECTION



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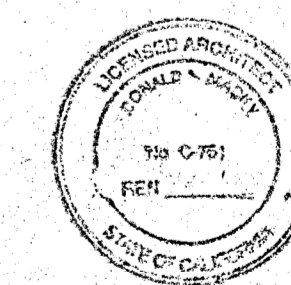
**BUILDING +
WALL SECTIONS**

DATE: JULY 26, 2001

SCALE: NOTED

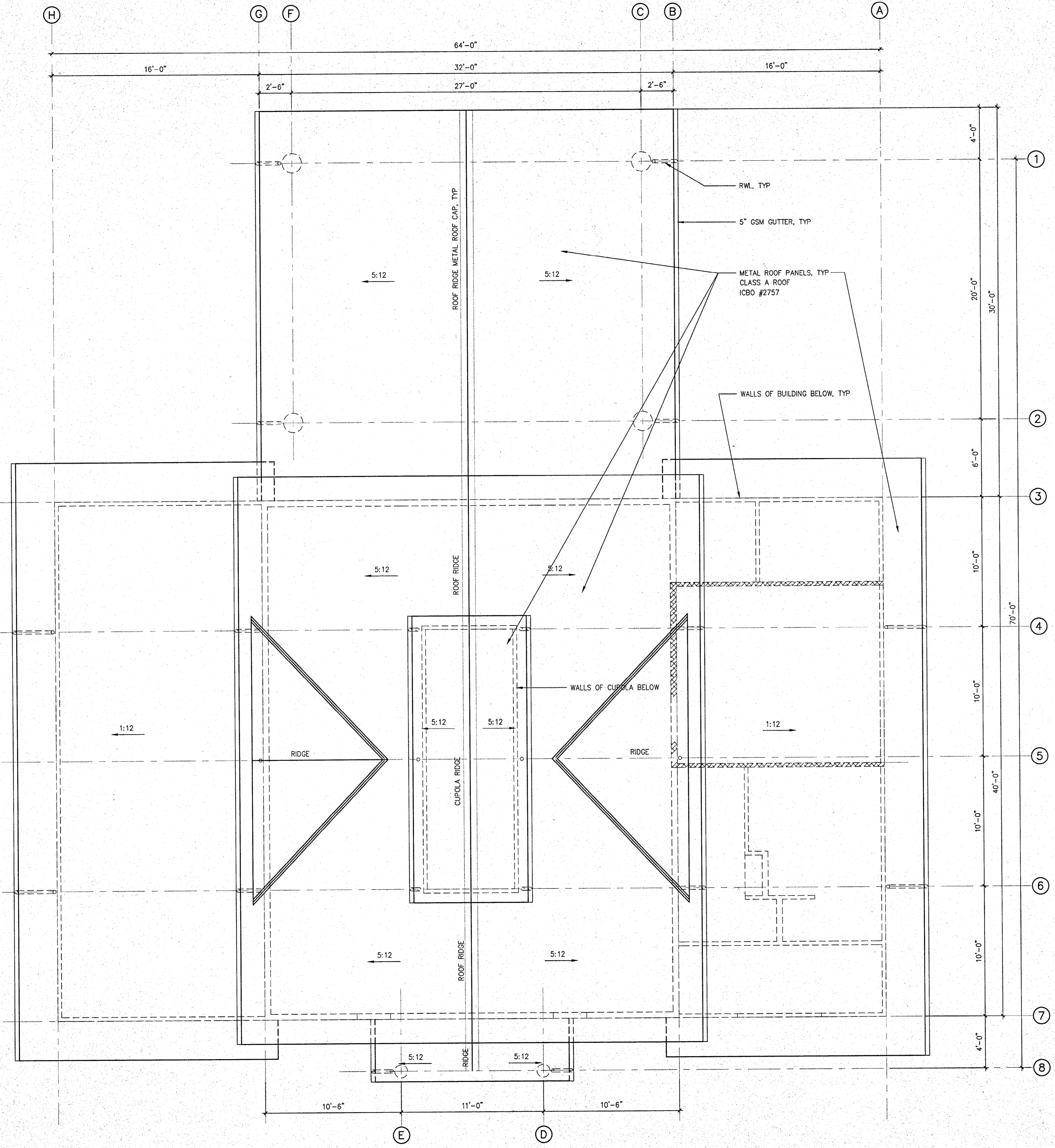
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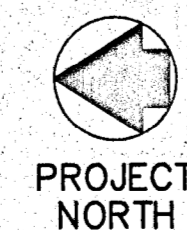
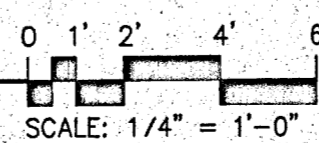


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RA3.1



ROOF PLAN



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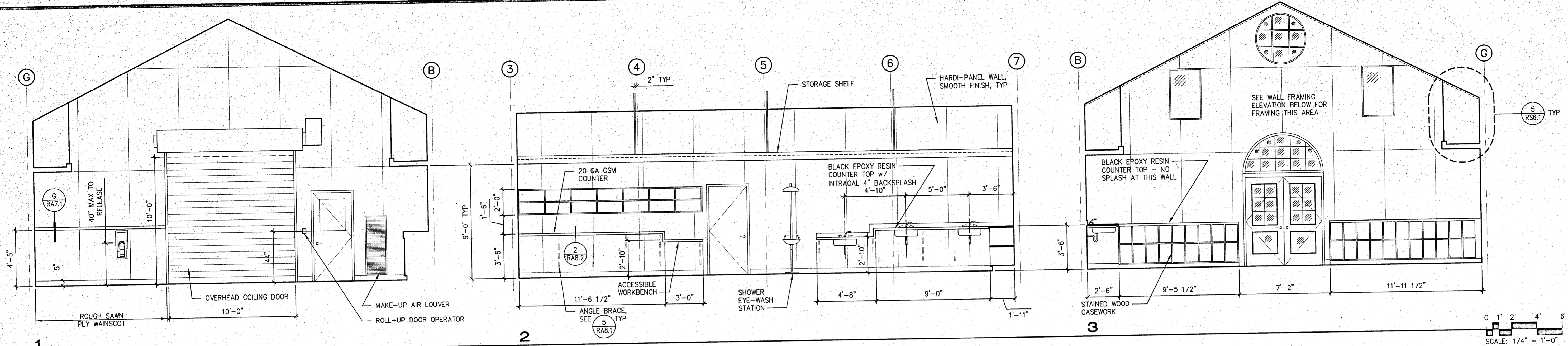
ROOF PLAN

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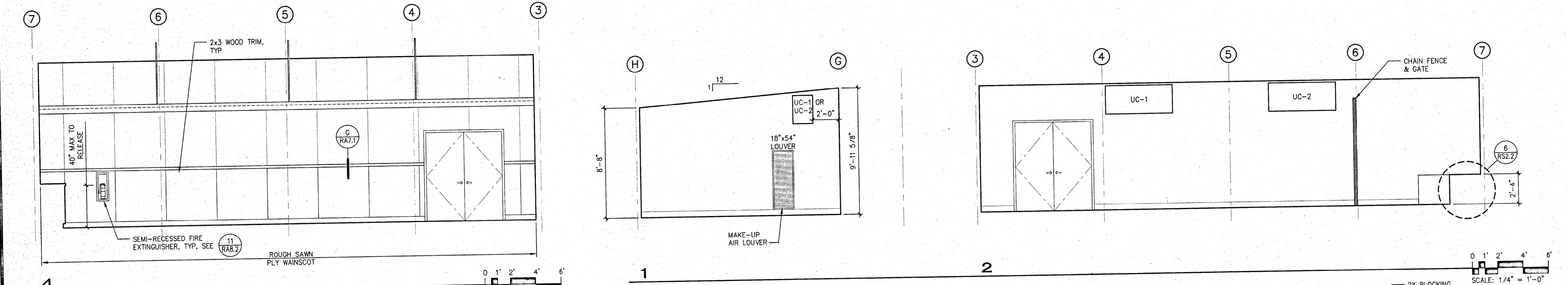
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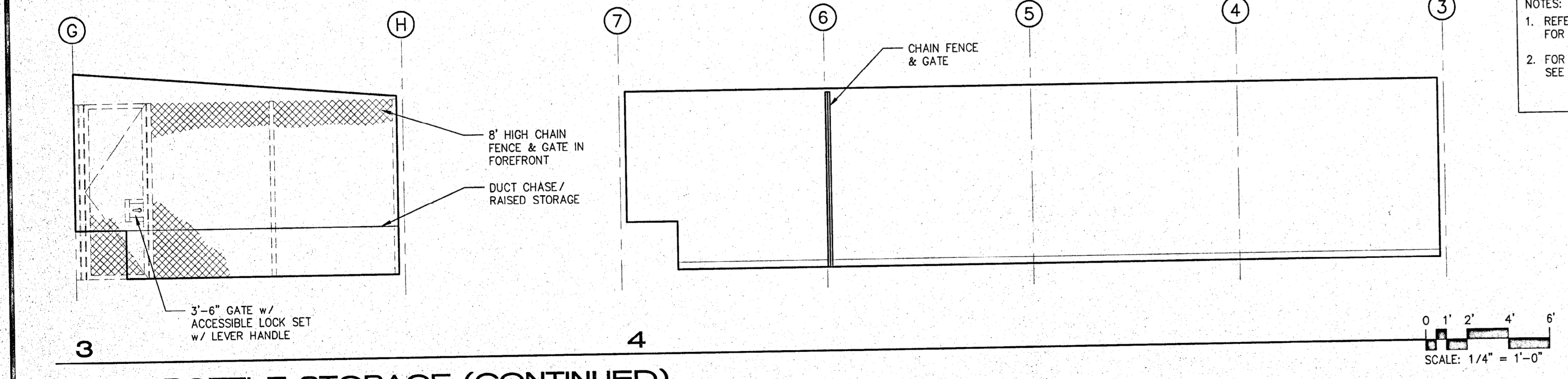


101 - WINE CELLAR



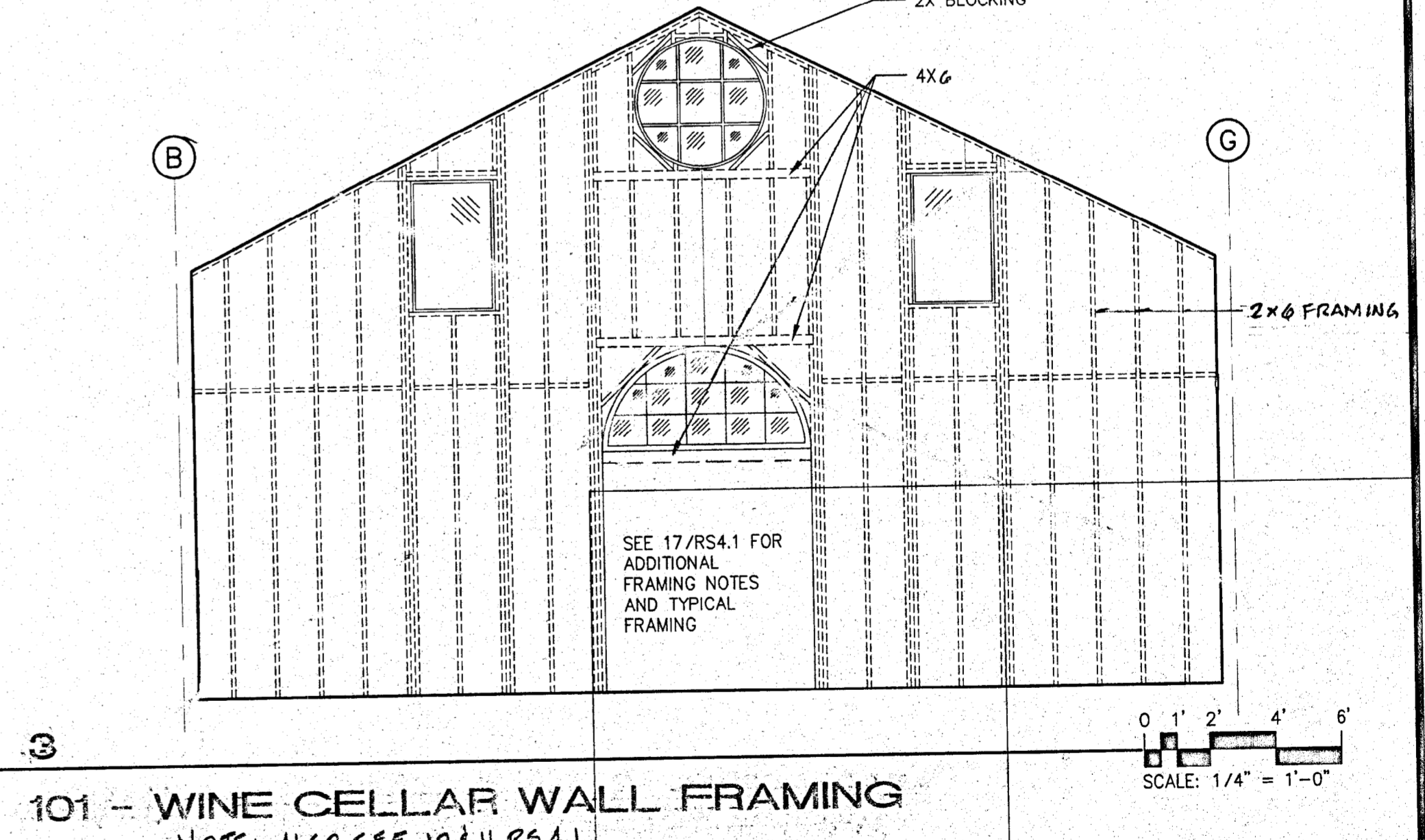
101 - WINE CELLAR (CONTINUED)

102 - BOTTLE STORAGE



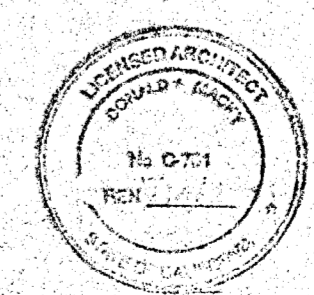
102 - BOTTLE STORAGE (CONTINUED)

NOTES:
 1. REFER TO SHEET RA7.1 FOR FINISH SCHEDULE
 2. FOR CABINET ANCHORAGE SEE (13) (RAB.1)



101 - WINE CELLAR WALL FRAMING

NOTE: ALSO SEE 10 & 11 RS4.1



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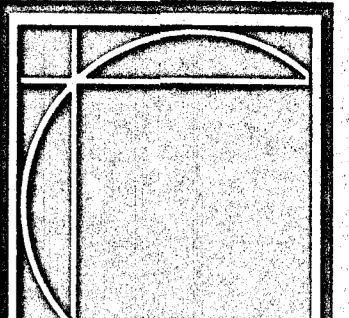
**INTERIOR
 ELEVATIONS**

DATE: JULY 26, 2001
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RA51

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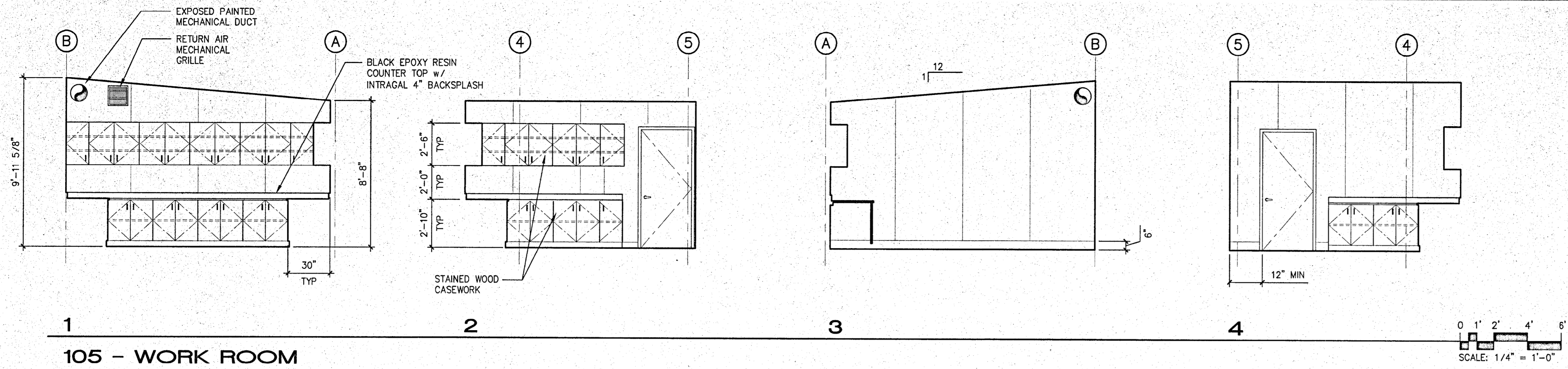
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CERTIFICATE NO. C 751

**NAPA VALLEY VINTNERS
TEACHING WINERY**
Napa Valley College
Napa, California

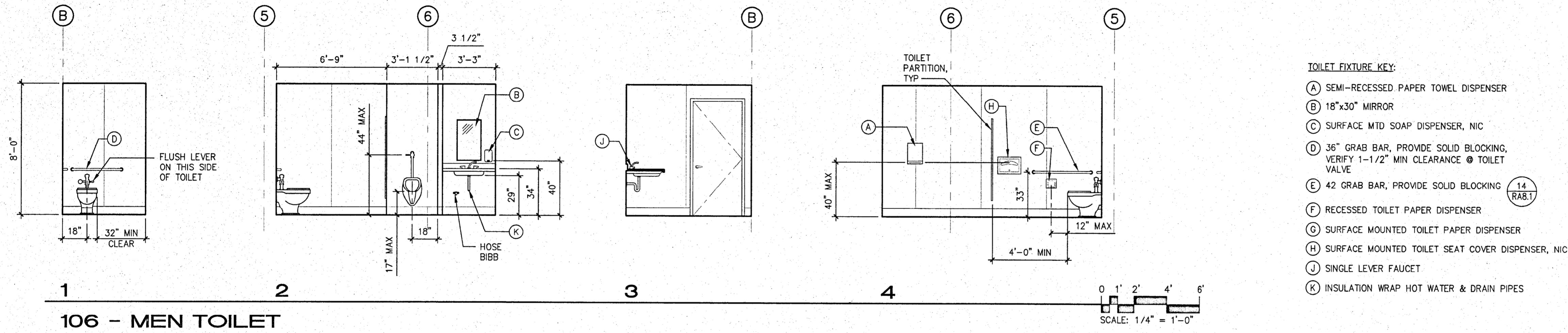
**INTERIOR
ELEVATIONS**

DATE: JULY 26, 2001
SCALE: NOTED
DRAWN BY: PLM/TH
JOB: 00-107

RA5.2

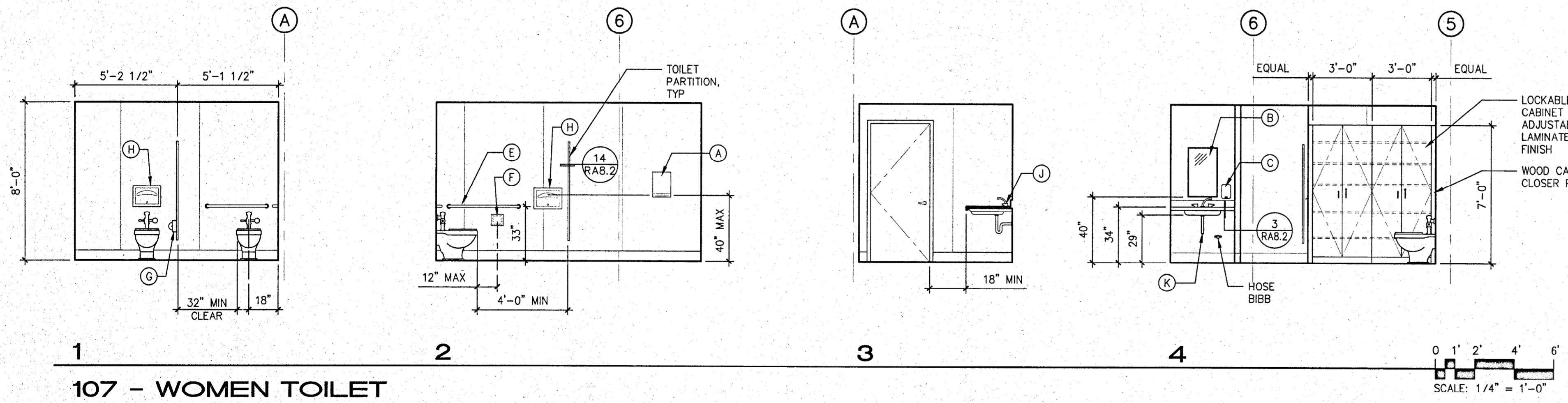


105 - WORK ROOM



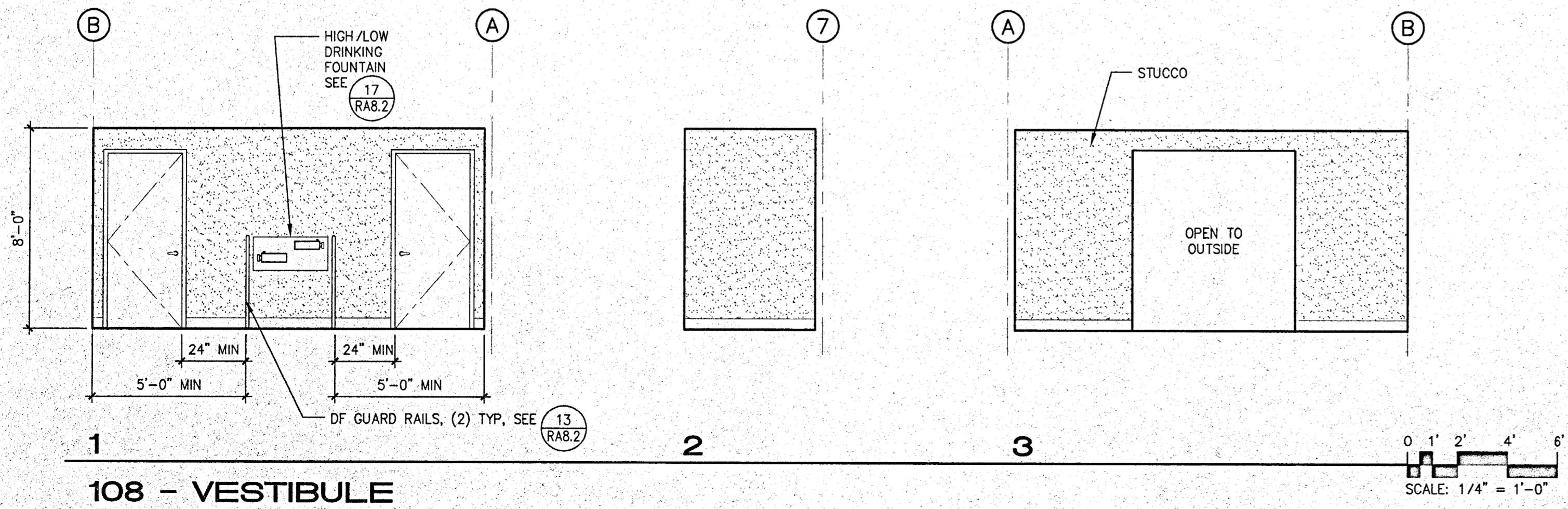
106 - MEN TOILET

- TOILET FIXTURE KEY:**
- (A) SEMI-RECESSED PAPER TOWEL DISPENSER
 - (B) 18"x30" MIRROR
 - (C) SURFACE MTD SOAP DISPENSER, NIC
 - (D) 36" GRAB BAR, PROVIDE SOLID BLOCKING, VERIFY 1-1/2" MIN CLEARANCE @ TOILET VALVE
 - (E) 42" GRAB BAR, PROVIDE SOLID BLOCKING (14 RAB.1)
 - (F) RECESSED TOILET PAPER DISPENSER
 - (G) SURFACE MOUNTED TOILET PAPER DISPENSER
 - (H) SURFACE MOUNTED TOILET SEAT COVER DISPENSER, NIC
 - (J) SINGLE LEVER FAUCET
 - (K) INSULATION WRAP HOT WATER & DRAIN PIPES



107 - WOMEN TOILET

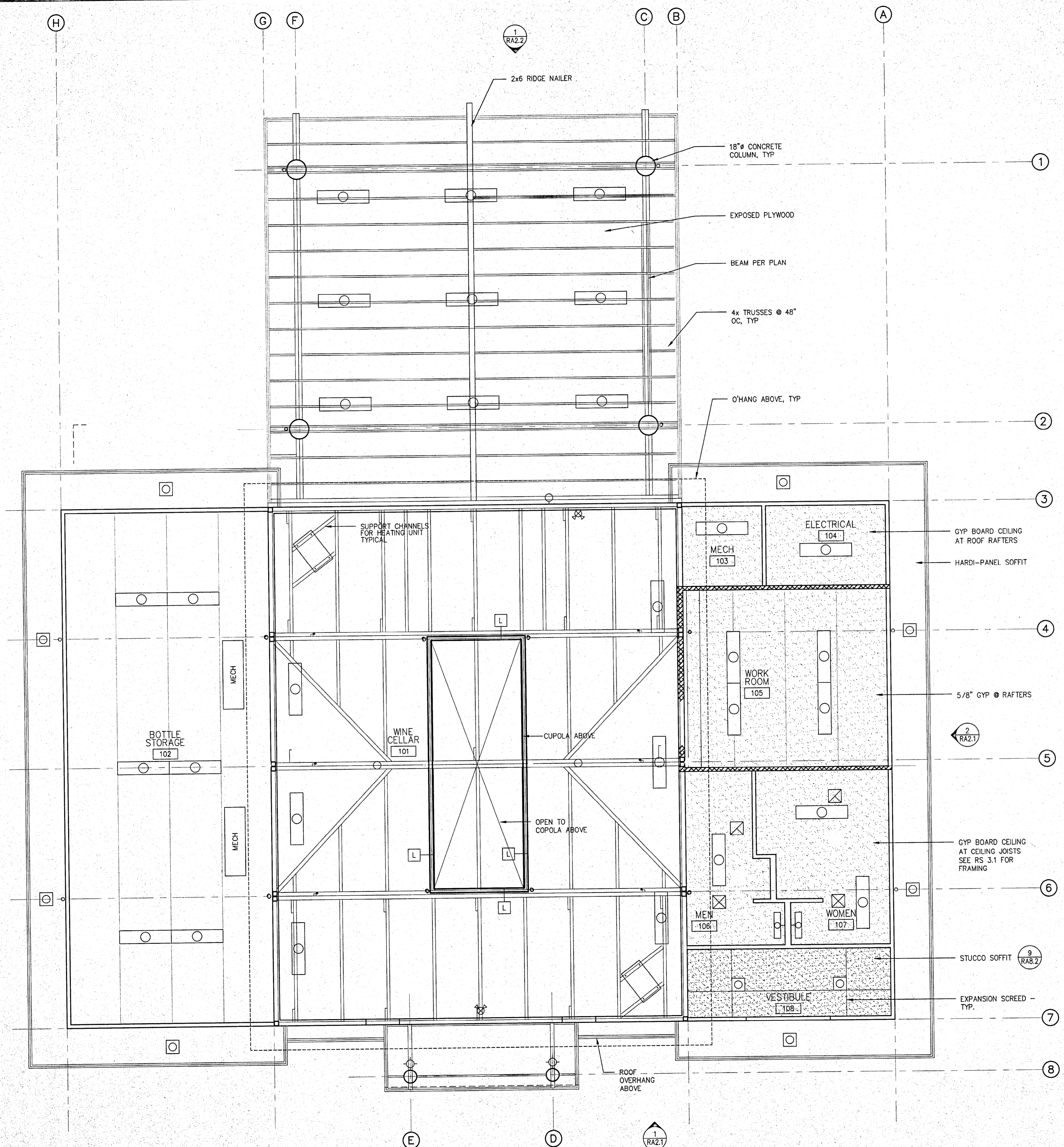
NOTES:
1. REFER TO SHEET RA7.1 FOR FINISH SCHEDULE
2. FOR CABINET ANCHORAGE SEE (13 RAB.1)



108 - VESTIBULE



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DATE SEP 20 2001



SYMBOL	DESCRIPTION
	24"x48" FLUORESCENT LIGHT FIXTURE
	12"x48" FLUORESCENT LIGHT FIXTURE
	WALL MOUNTED FLUORESCENT LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	RECESSED CAN (DOWN LIGHTS)
	DOWN LIGHTS
	CEILING SUPPLY REGISTER
	CEILING EXHAUST FAN
	SEE MECHANICAL DRAWINGS FOR DUCT ROUTING & ADDITIONAL INFORMATION

OWNER'S RECORD DOCUMENT - FOR REFERENCE ONLY

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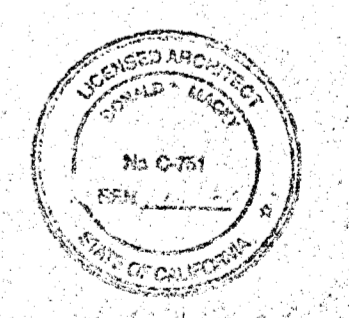
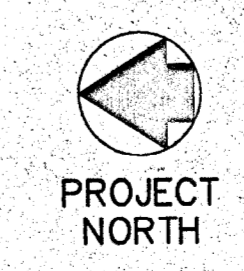
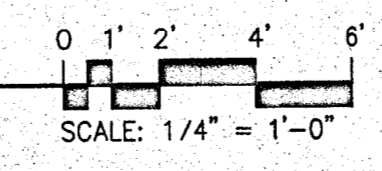
**NAPA VALLEY VINTNERS
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 Napa, California

**REFLECTED
 CEILING PLAN**

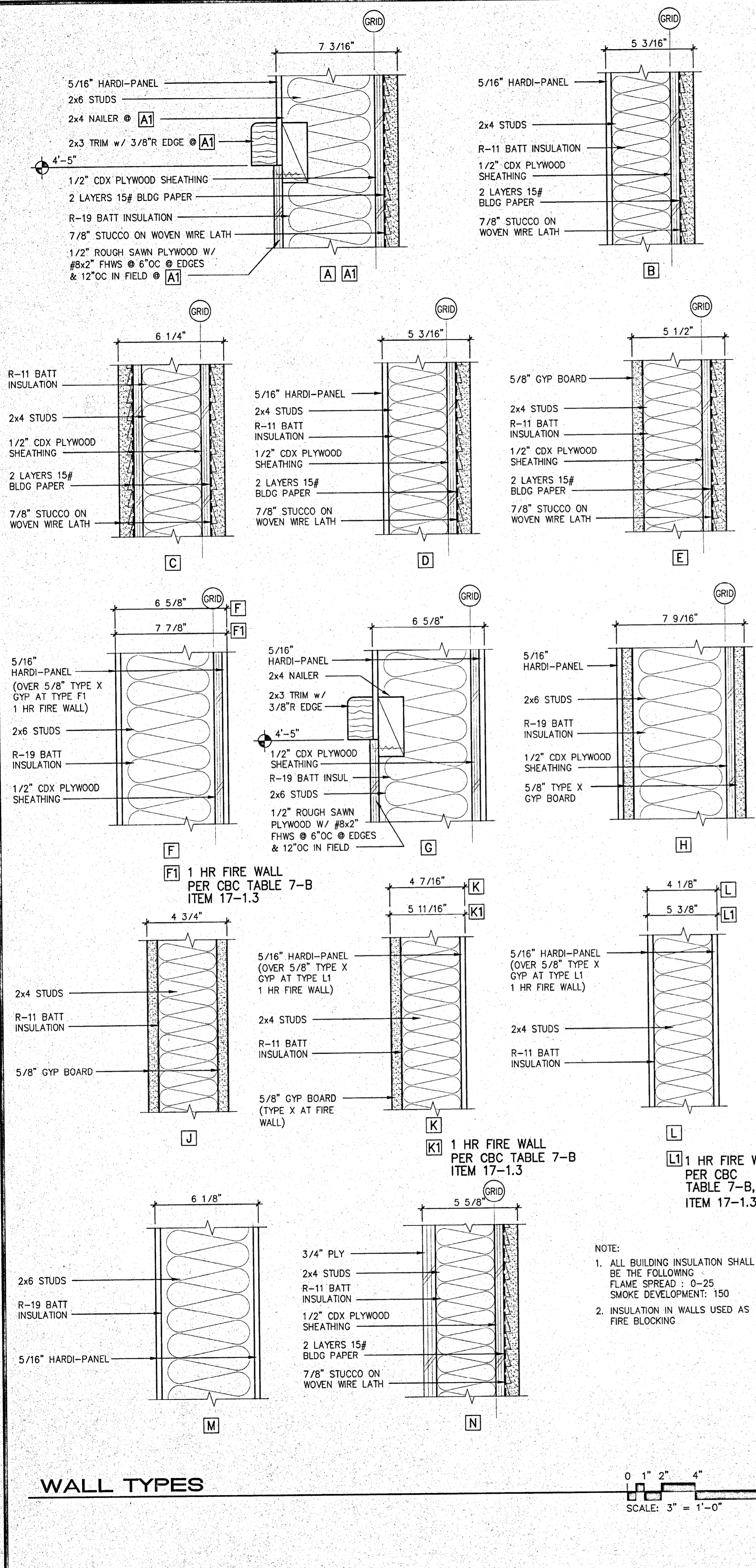
DATE: JULY 26, 2001
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 JOB: 00-107

RA6.1

REFLECTED CEILING PLAN



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 DATE: SEP 20 2001



FINISH SCHEDULE

ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 3-8 & 10, CFC & TITLE 19 CCR

ROOM NO	ROOM NAME	FLOOR		WALLS						CEILING				REMARKS		
		FINISH	BASE	NORTH	EAST	SOUTH	WEST	FINISH	MATL	FINISH	HEIGHT					
101	WINE CELLAR	CONC	CS	PW2/HP	PG	PW2/HP	PG	HP	PG	HP	PG	HP	PG	HP	N/A	VARIES
102	BOTTLE STORAGE	CONC	CS	HP	PG	HP	PG	HP	PG	HP	PG	HP	PG	HP	N/A	VARIES
103	MECHANICAL	CONC	CS	G8	PG	G8	PG	G8	PG	G8	PG	G8	PG	G8	UF	VARIES
104	ELECTRICAL	CONC	CS	G8	PG	G8	PG	PW3	PG	G8	PG	G8	PG	G8	UF	VARIES
105	WORK ROOM	CONC	CS	HP	PG	HP	PG	HP	PG	HP	PG	HP	PG	HP	N/A	VARIES
106	MEN'S TOILET	CONC	CS	HP	PG	HP	PG	HP	PG	HP	PG	HP	PG	G8	PG	8'-0"
107	WOMEN'S TOILET	CONC	CS	HP	PG	HP	PG	HP	PG	HP	PG	HP	PG	G8	PG	8'-0"
108	VESTIBULE	CONC	CS	ST	N/A	ST	N/A	ST	N/A	ST	N/A	ST	N/A	ST	N/A	8'-0"

FINISH SCHEDULE NOTES:

SEE SHEET RA5.1 & RA5.2 FOR INTERIOR ELEVATIONS

NOTE #1 THE LOWER 48" OF GYP BOARD AT WALLS WHERE FIXTURES ARE LOCATED & WALL AREAS WITHIN 24" OF FIXTURES SHALL BE COMPOSED OF WATER-RESISTANT GYP BOARD

NOTE #2 MINIMUM COEFFICIENT OF FRICTION FOR ALL FLOOR FINISHES = 0.6

MATERIALS LEGEND

- G2 1/2" GYP BOARD
- G8 5/8" GYP BOARD
- GM2 1/2" WATER-RESISTANT GYP BOARD
- GM8 5/8" WATER-RESISTANT GYP BOARD
- GX 5/8" TYPE "X" GYP BOARD
- GMX 5/8" TYPE "X" WATER-RESIST GYP BO
- PW2 1/2" ROUGH SAWN PLYWOOD
- PW3 3/4" PLYWOOD
- CONC CONCRETE
- HP 5/16" HARDI-PANEL, SMOOTH FACE

FINISH LEGEND:

- FLOOR**
- CS CLEAR SEALED CONCRETE
- BASE**
- R4 4" RUBBER BASE
 - R6 6" RUBBER BASE
 - CS 5 1/2" CLEAR SEALED CONCRETE CURB
- WALL + CEILING**
- PS PAINT SMOOTH FINISH (ENAMEL/EGGSHELL)
 - PG PAINT SEMI-GLOSS
 - FRP FIBERGLASS REINFORCED PANEL
 - UF UNFINISHED - TAPE ONLY
 - OPEN EXPOSED FRAMING
 - ST 7/8" STUCCO (INTEGRAL COLOR & PAINTED)

DOOR SCHEDULE

DOOR TYPE	SIZE (WxH)	DOOR THICKNESS	FIRE RATING	DOOR MAT'L	FRAME MAT'L	FINISH	SWING	WALL TYPE	STC	DETAIL REF	REMARKS
101A	B PAIR 3'-0"x7'-0"	1-3/4"	NONE	HM	HM	PF	RHR	A	NONE	20/RAB.1	ACS, PF, KP, WS, TG, MLW, LK, PH
101B	C 3'-0"x7'-0"	1-3/4"	NONE	HM	HM	PG	LHR	A	NONE	2/RAB.1	KP, WS, TG, SFC, LK, PH
101C	A 10'-0"x10'-0"	NONE	METAL	METAL	METAL	PF	RU	A1, A	NONE	5, 6 & 7/RAB.2	IMP, MC, WS
102	D PAIR 3'-0"x7'-0"	1-3/4"	NONE	WD	HM	PG	RHR	G	NONE	3/RAB.1	KP, WS, LS
103	F 3'-0"x7'-0"	1-3/4"	NONE	HM	HM	PG	LHR	E	NONE	2/RAB.1	AT, KP, WS, LV
104	F 3'-0"x7'-0"	1-3/4"	NONE	HM	HM	PG	RHR	E	NONE	2/RAB.1	AT, KP, WS, LV
105	E 3'-0"x7'-0"	1-3/4"	60 MIN.	WD	HM	PG	LH	F	NONE	3/RAB.1	KP, LS, PH
106	E 3'-0"x7'-0"	1-3/4"	NONE	HM	HM	PG	LHR	D	NONE	2/RAB.1	RAS, AT, KP, WS, SFC
107	E 3'-0"x7'-0"	1-3/4"	NONE	HM	HM	PG	RHR	D	NONE	2/RAB.1	RAS, AT, KP, WS, SFC
108	E 3'-0"x7'-0"	1-3/4"	NONE	HM	HM	PG	LHR	F	NONE	2/RAB.1	KP, WS, PH, EXIT ONLY, NO LATCH AT EXTERIOR

DOOR SCHEDULE NOTES:

1. ALL LEVER HANDLE RETURNS SHALL BE WITHIN 1/2" OF THE FACE OF DOOR.

2. ADJUST DOOR CLOSER FOR MAXIMUM PUSH/PULL EFFORT TO OPERATE DOOR AS FOLLOWS (EFFORT SHALL BE APPLIED AT RIGHT ANGLES TO PLANE OF DOOR @ LATCH SIDE): INTERIOR DOORS = 5 POUNDS; EXTERIOR DOORS = 8 1/2 POUNDS. FIRE RATED DOORS = 15 POUNDS

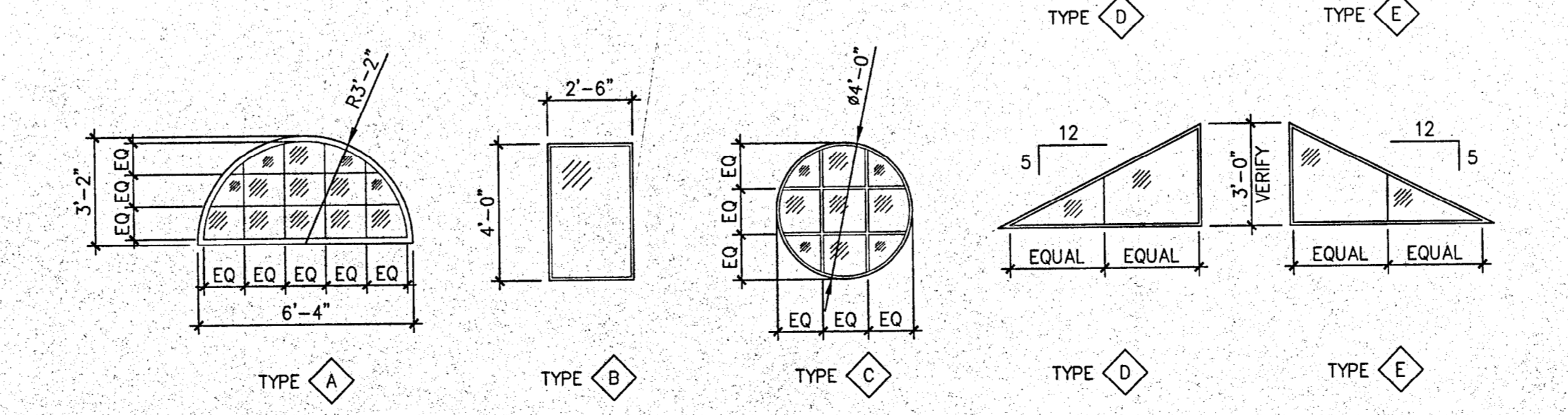
- AT 1/4" HIGH ALUMINUM THRESHOLD
- SFC SELF-CLOSER
- ACS ACCESSIBILITY SIGNAGE, SEE DETAIL 16/RAB.1
- RAS RESTROOM ACCESSIBLE SIGNAGE, SEE DETAIL 15/RAB.1
- SC SOLID CORE
- HM HOLLOW METAL
- WD WOOD
- TG 1/4" CLEAR TEMPERED GLAZING IN METAL FRAME
- PG PAINT SEMI-GLOSS
- RH RIGHT HAND
- RHR RIGHT HAND REVERSE
- LH LEFT HAND
- LHR LEFT HAND REVERSE
- KP 10" HIGH KICK PLATE
- RU ROLL-UP
- WC WOOD W/ ALUM CLAD
- PF PAINTED FINISH BY MFR'R
- WS WEATHER STRIPPING
- MLW HEAD MULLED TOGETHER W/ WINDOW 'A'
- IMP INSULATED METAL PANELS
- MC MOTORIZED CLOSER
- LK LOCKSET
- LS LOUVER SEE ELEV
- LV LOUVER SEE ELEV
- PH PANIC HARDWARE

WINDOW SCHEDULE

TYPE	SIZE (WxH)	MODEL/SERIES	TYPE	FRAME MAT'L	CASEM'T FINISH	GLAZING	WALL TYPE	DETAIL REF	REMARKS
A	6'-4"x3'-2"	ARCH	FIXED	WC	PG	CL	A	6/RAB.1	W/ MUNTINS; BRZ
B	2'-5"x4'-0"	RECTANGLE	FIXED	ALUM	PG	CL	A	1/RAB.1	BRZ
C	4'-0" DIA	ROUND	FIXED	ALUM	PG	CL	A	6/RAB.1	W/ MUNTINS; BRZ
D	6'-0"x3'-0"	TRIANGLE	FIXED	ALUM	PG	CL	L	1/RAB.1 SIM	W/ MUNTINS; BRZ
E	6'-0"x3'-0"	TRIANGLE	FIXED	ALUM	PG	CL	L	1/RAB.1 SIM	W/ MUNTINS; BRZ
F	1'-6"x8"								FIXED LOUVER w/ 1/4" SCREEN
E	1'-6"x4'-6"								FIXED LOUVER w/ 1/4" SCREEN

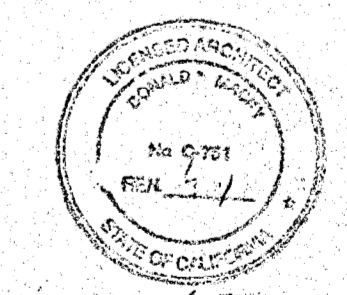
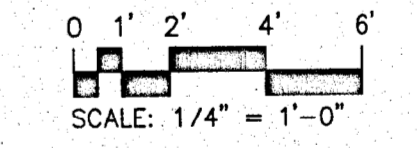
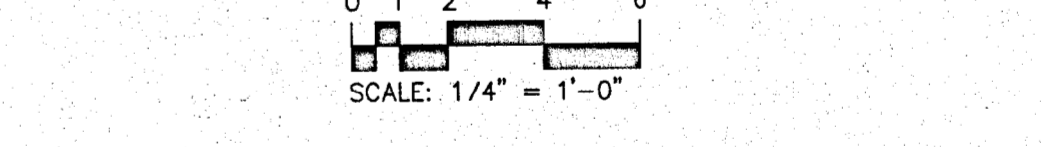
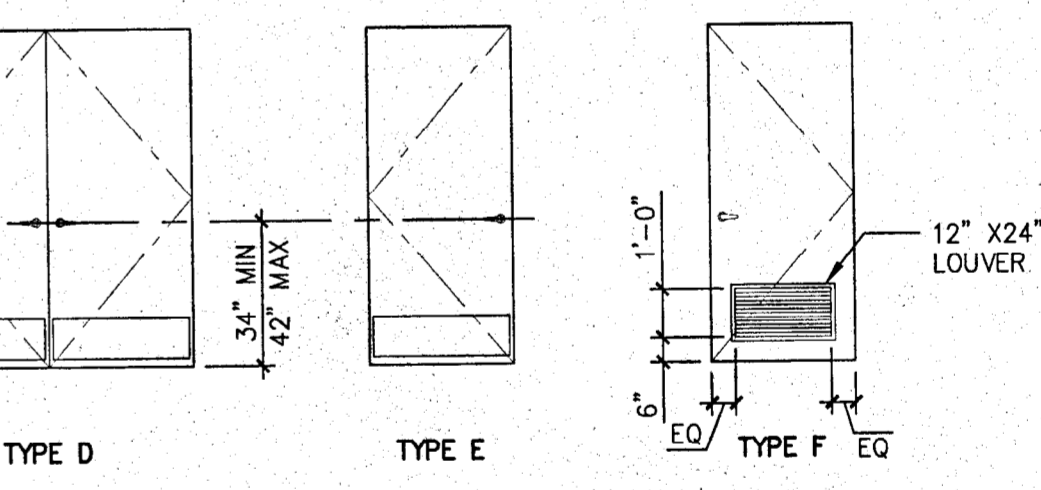
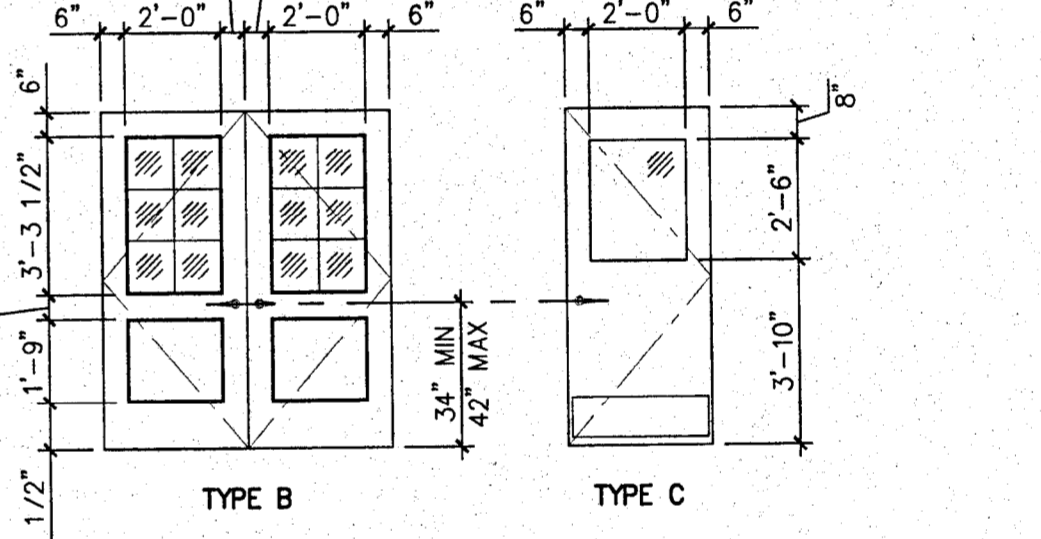
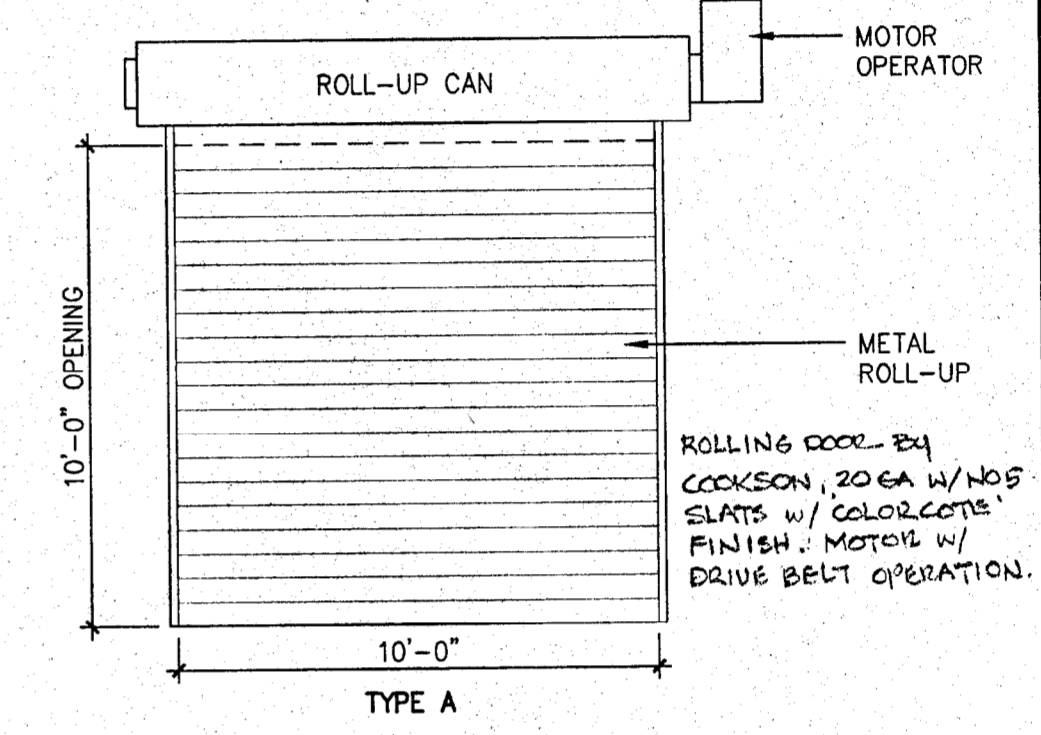
LEGEND:

- CL 1/4" CLEAR GLAZING
- TM TEMPERED
- BRZ BRONZE FACTORY FINISH
- PG PAINTED SEMI-GLOSS
- WC WOOD / ALUM CLAD



FLAME & SMOKE SPREAD RATINGS:

HARDI-PANEL: FLAME: 0
SMOKE: 5



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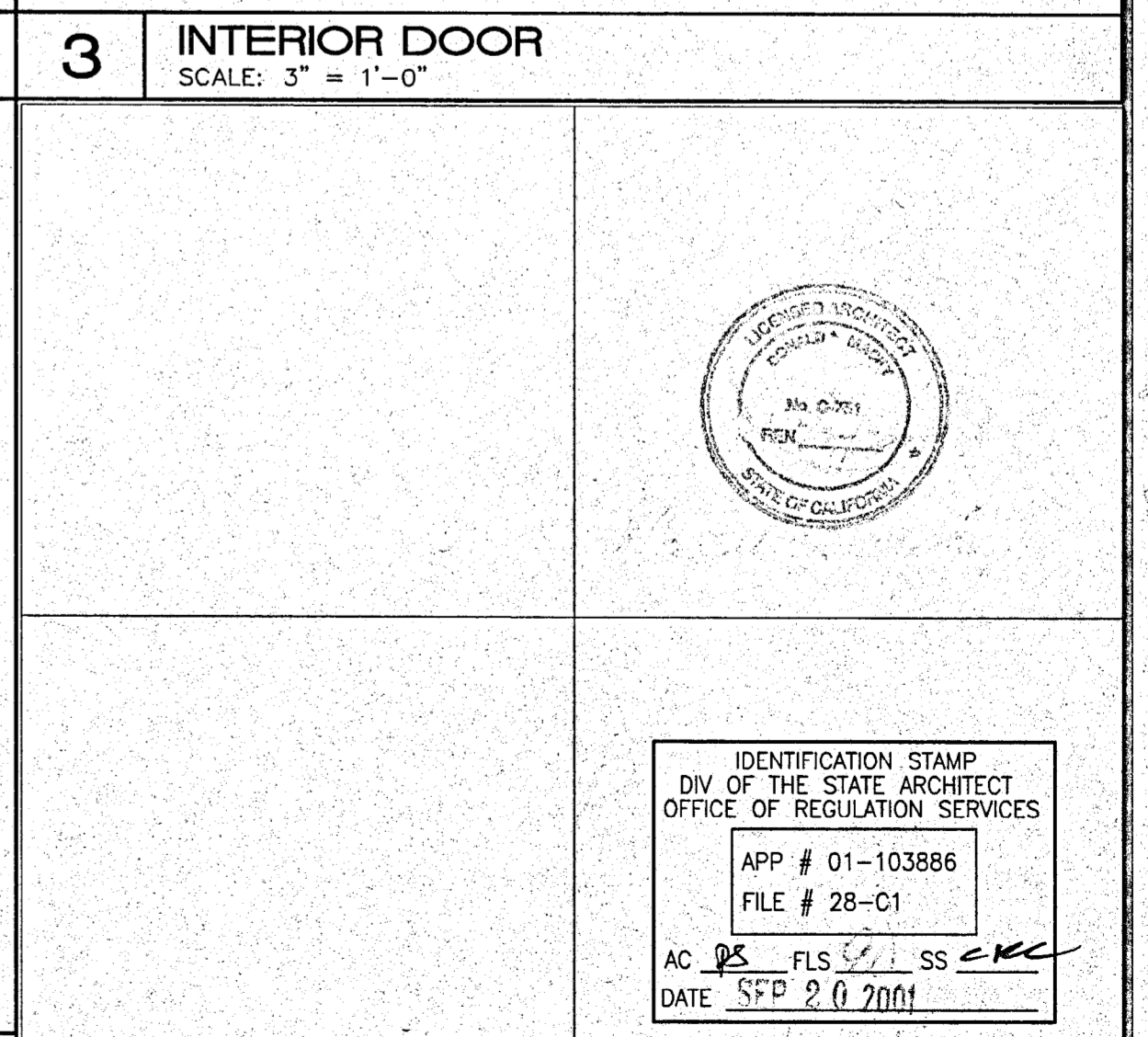
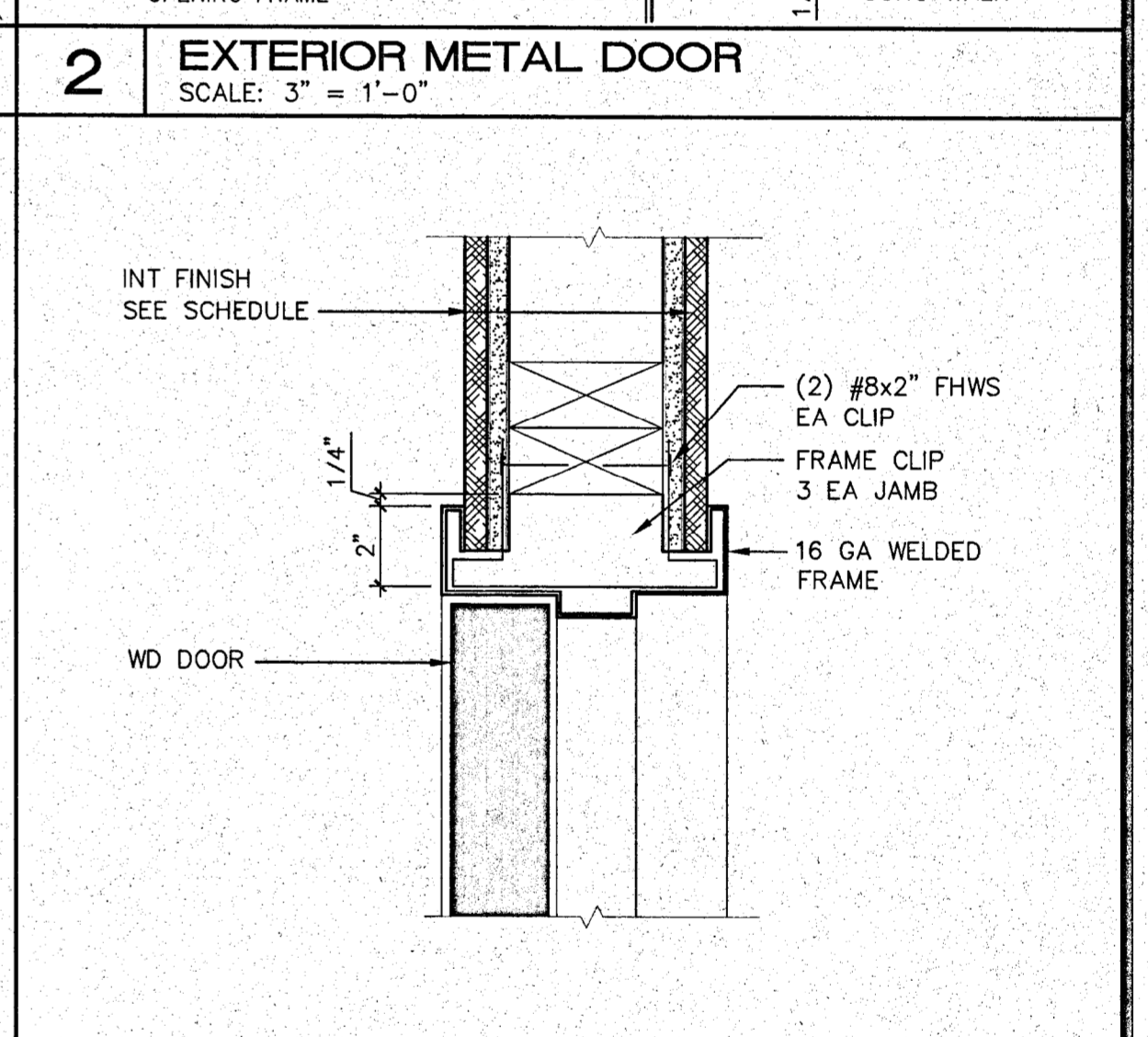
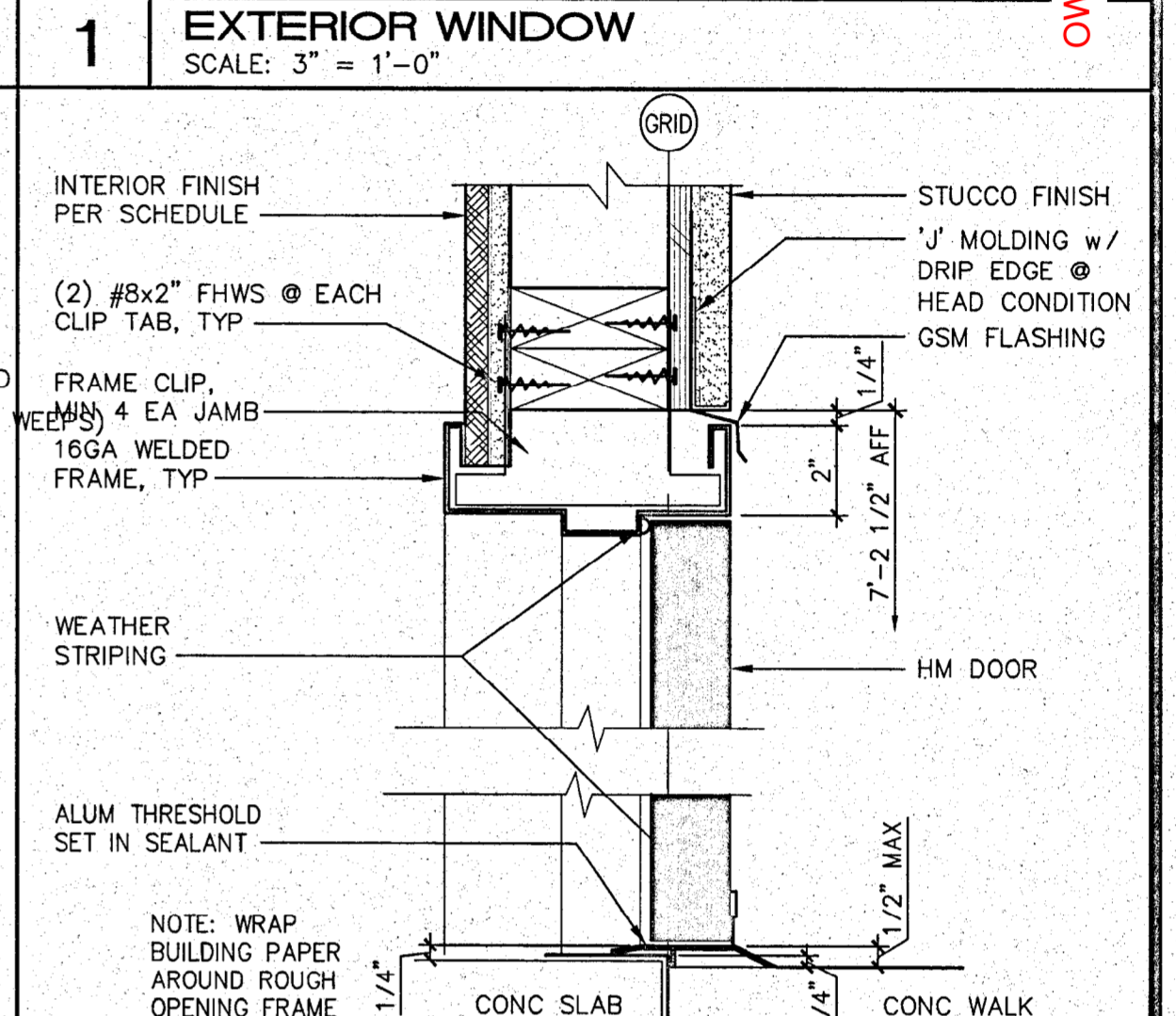
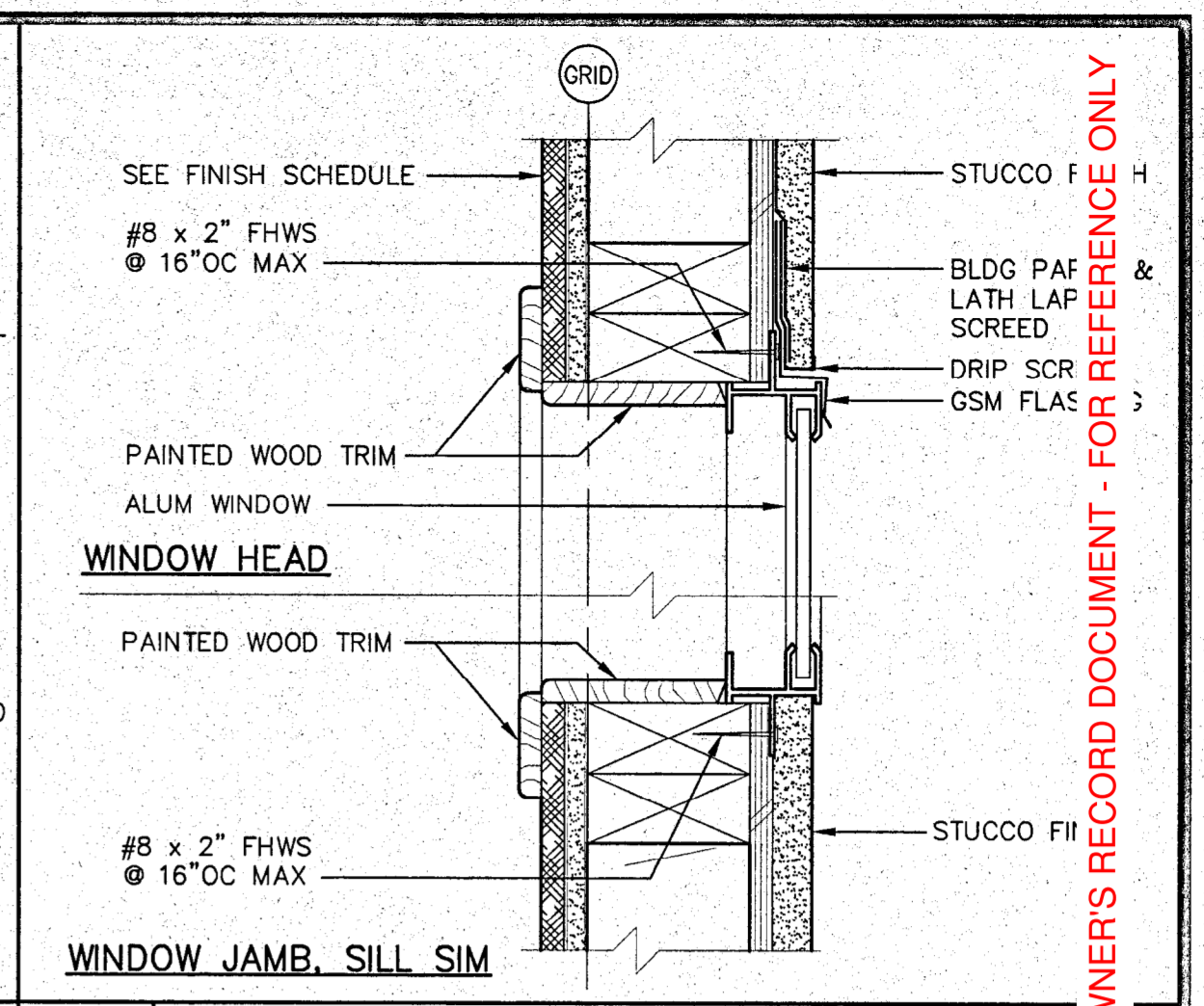
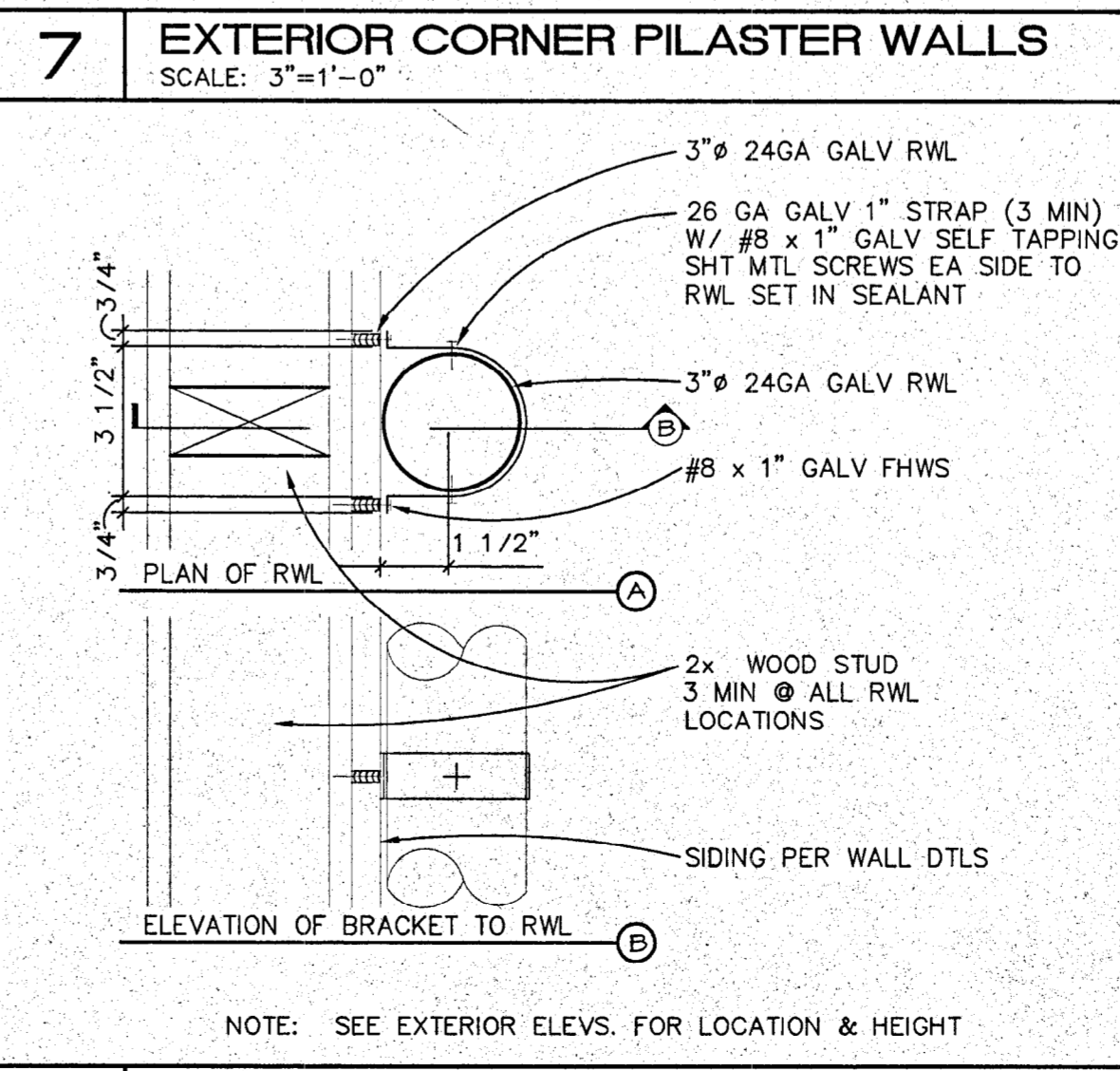
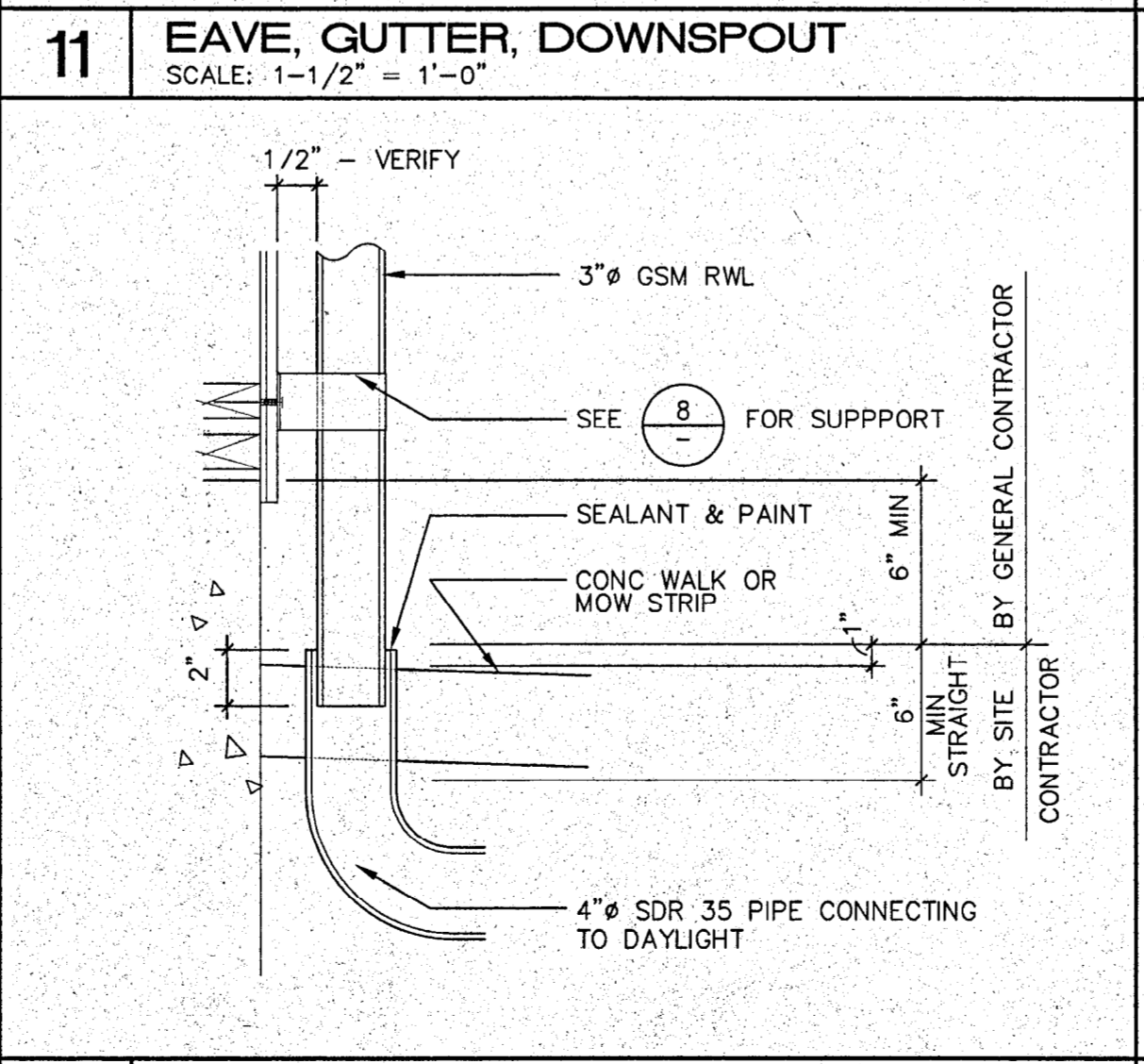
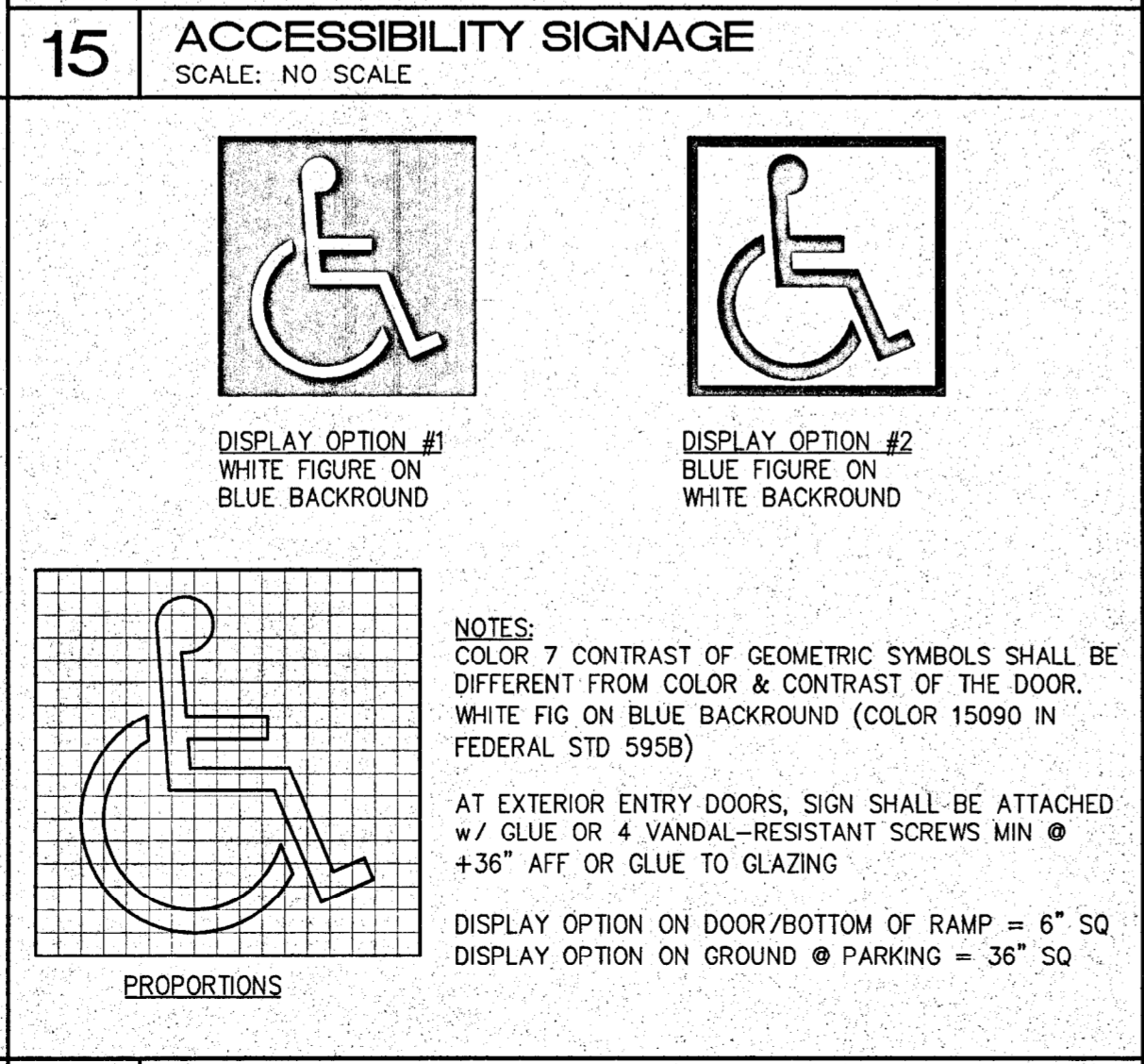
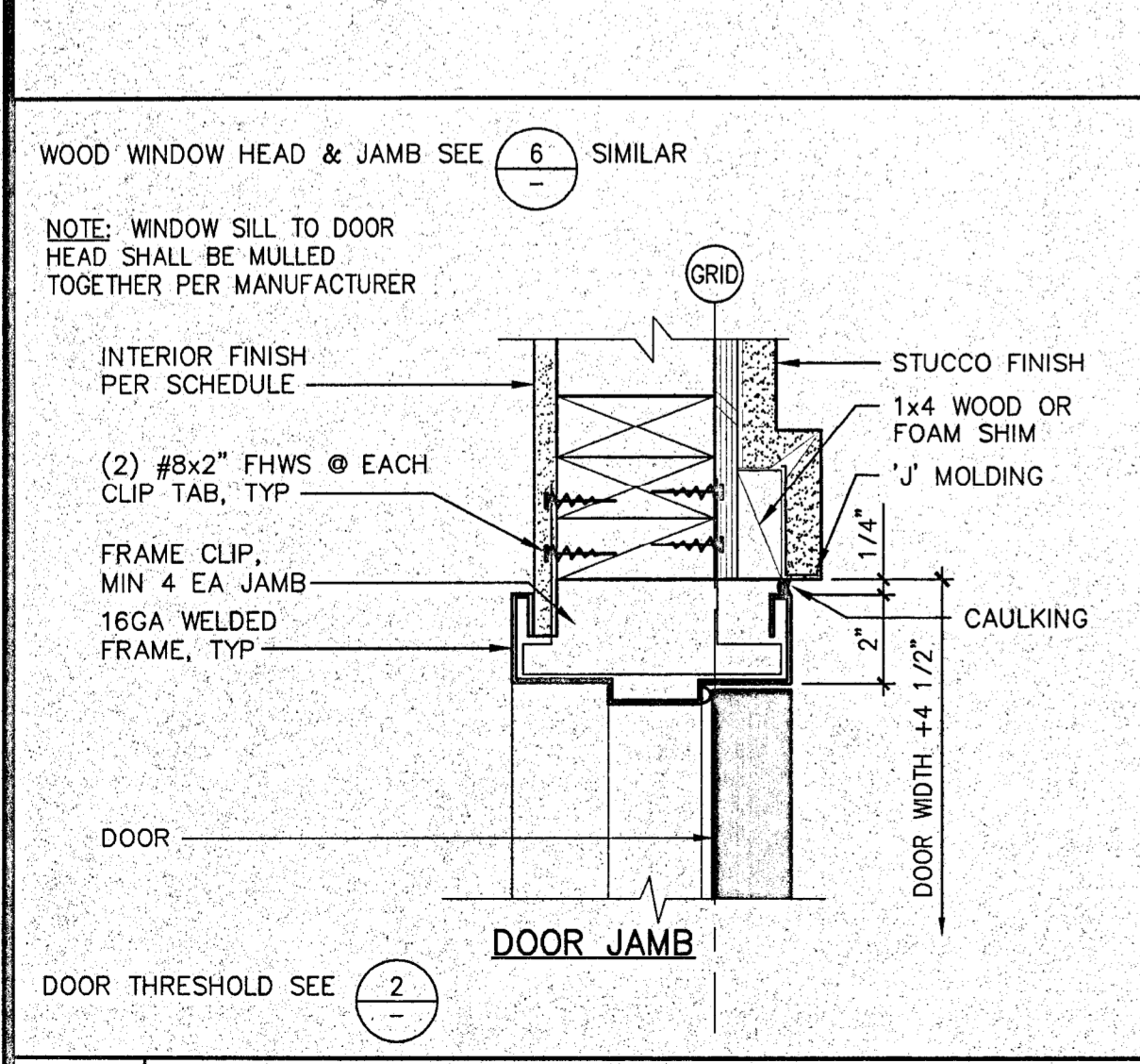
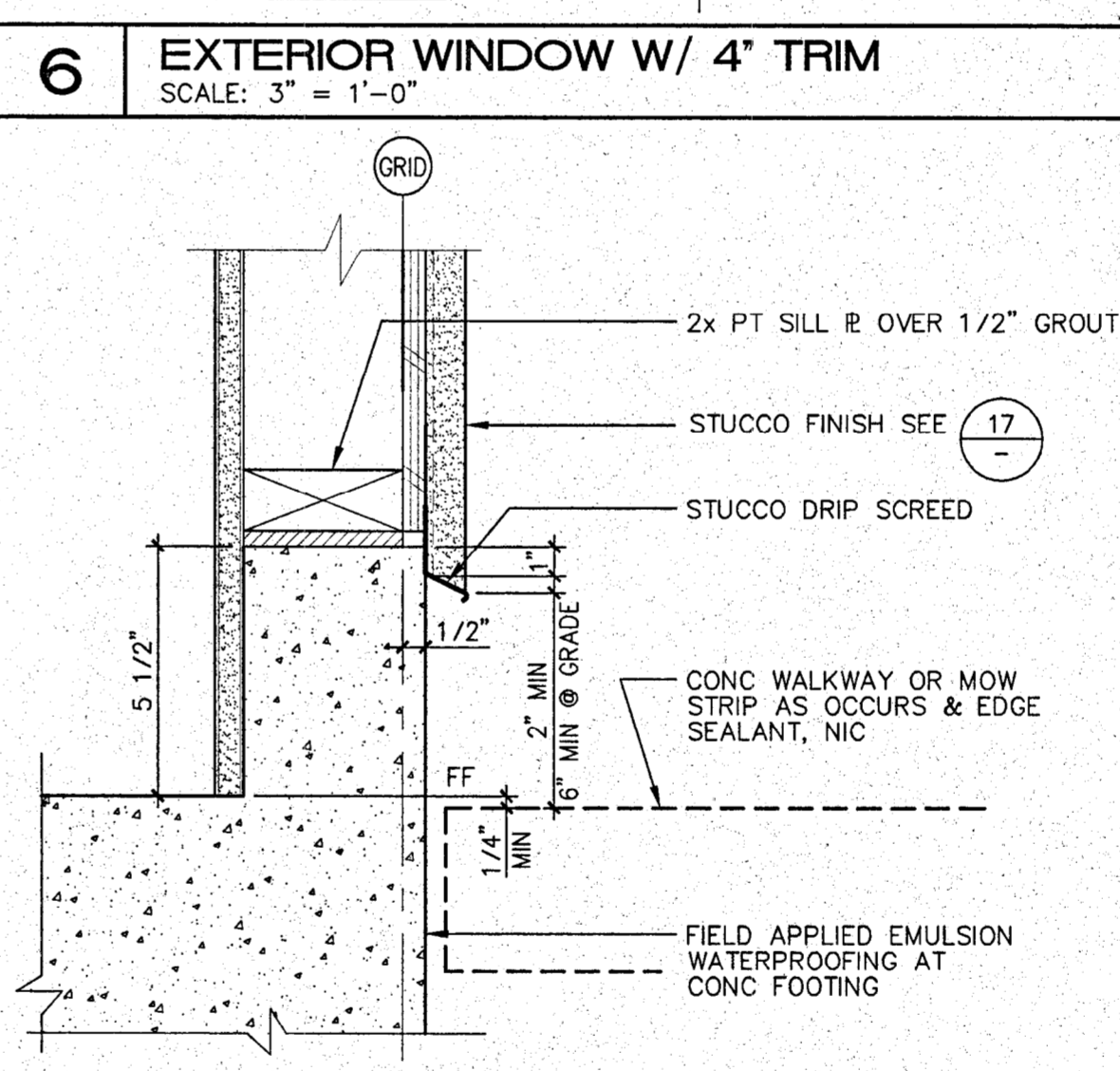
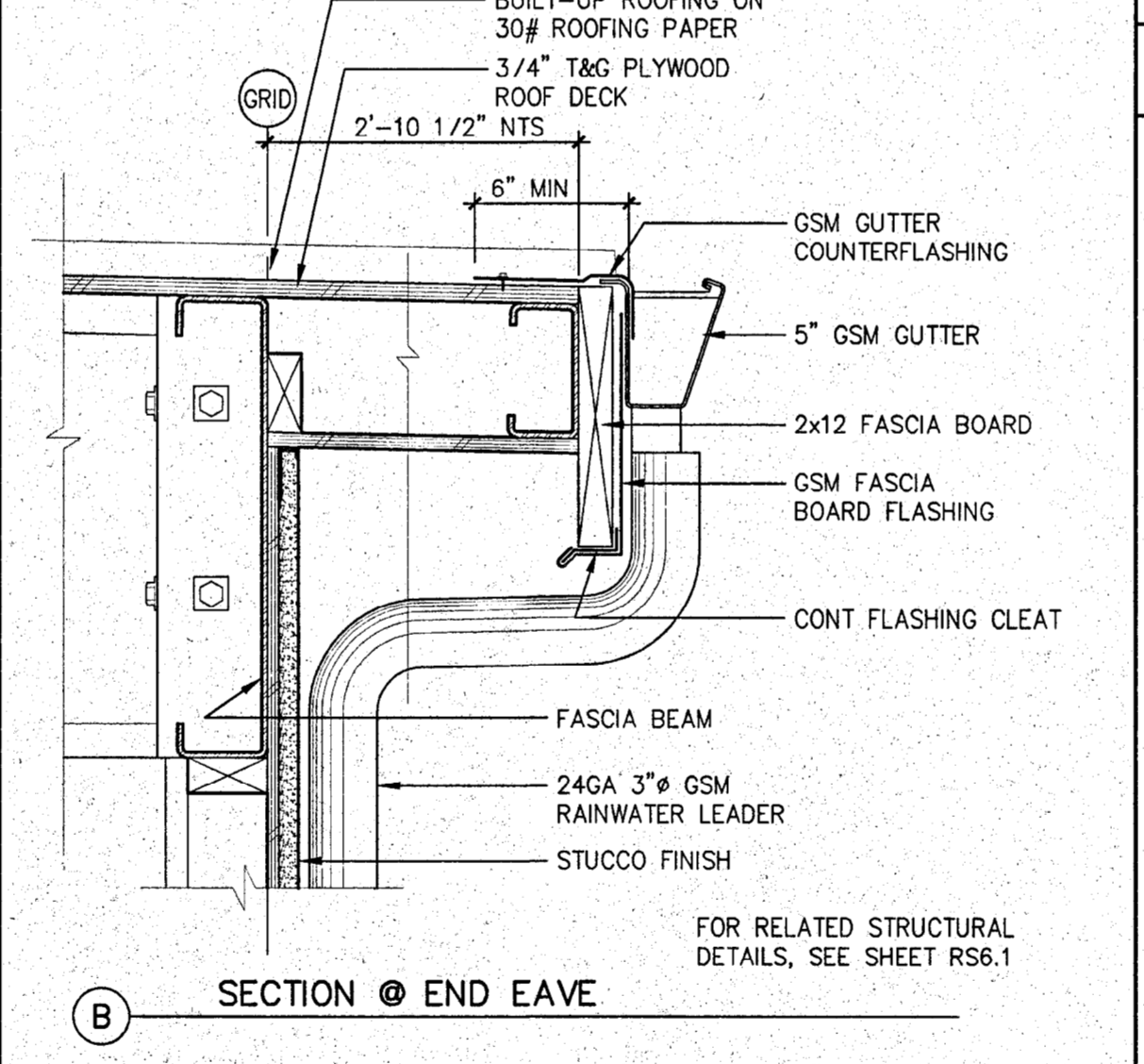
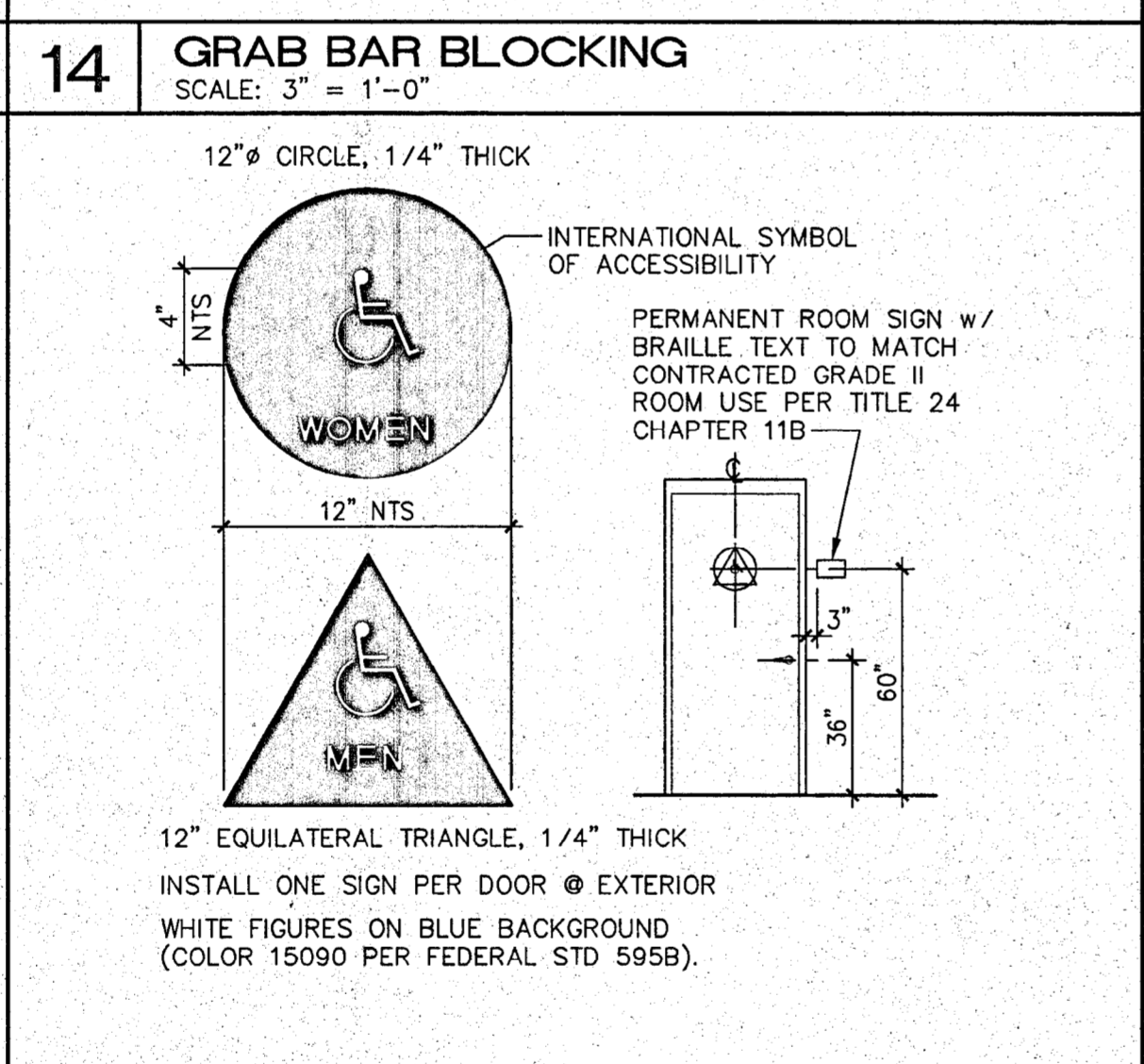
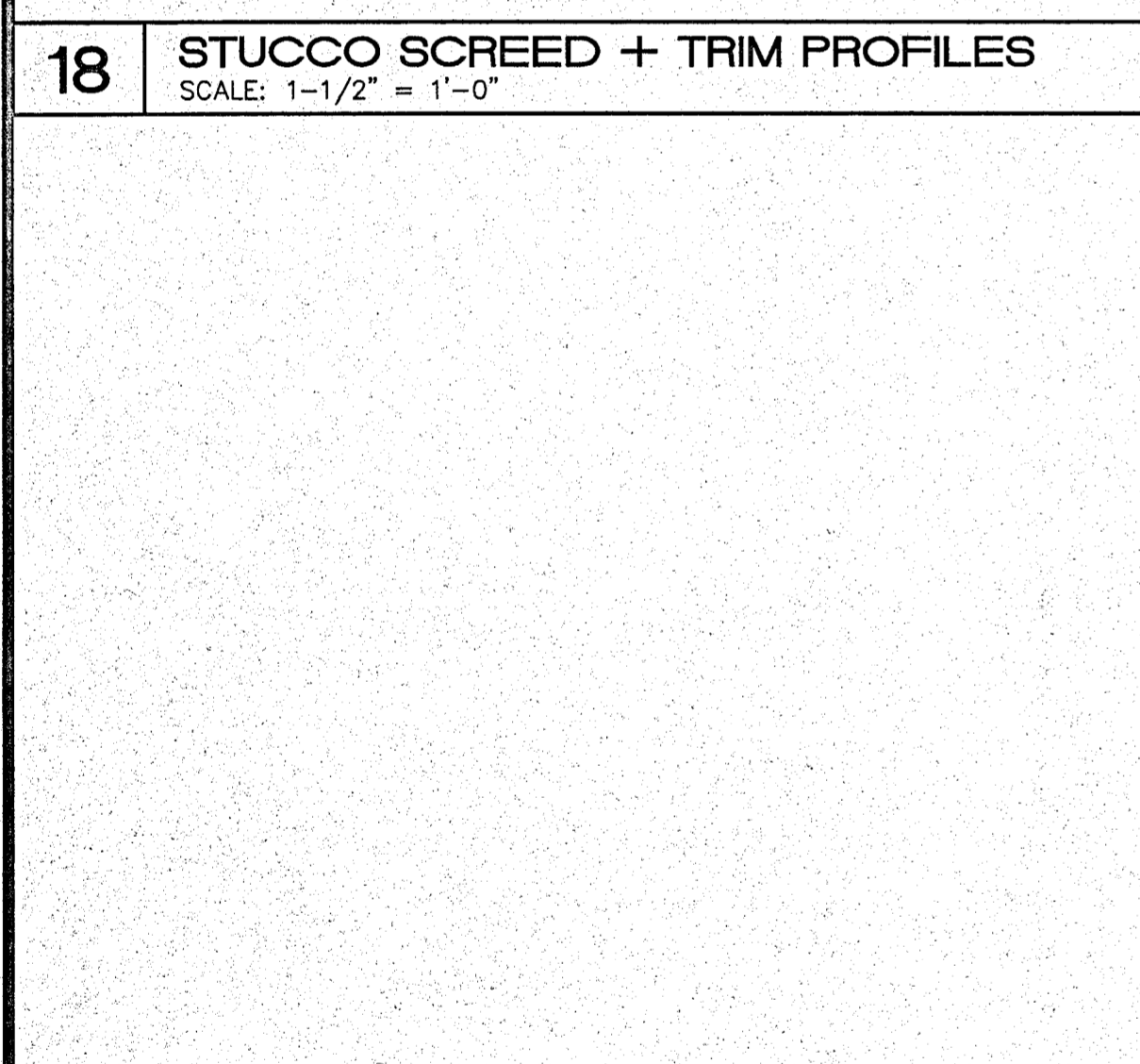
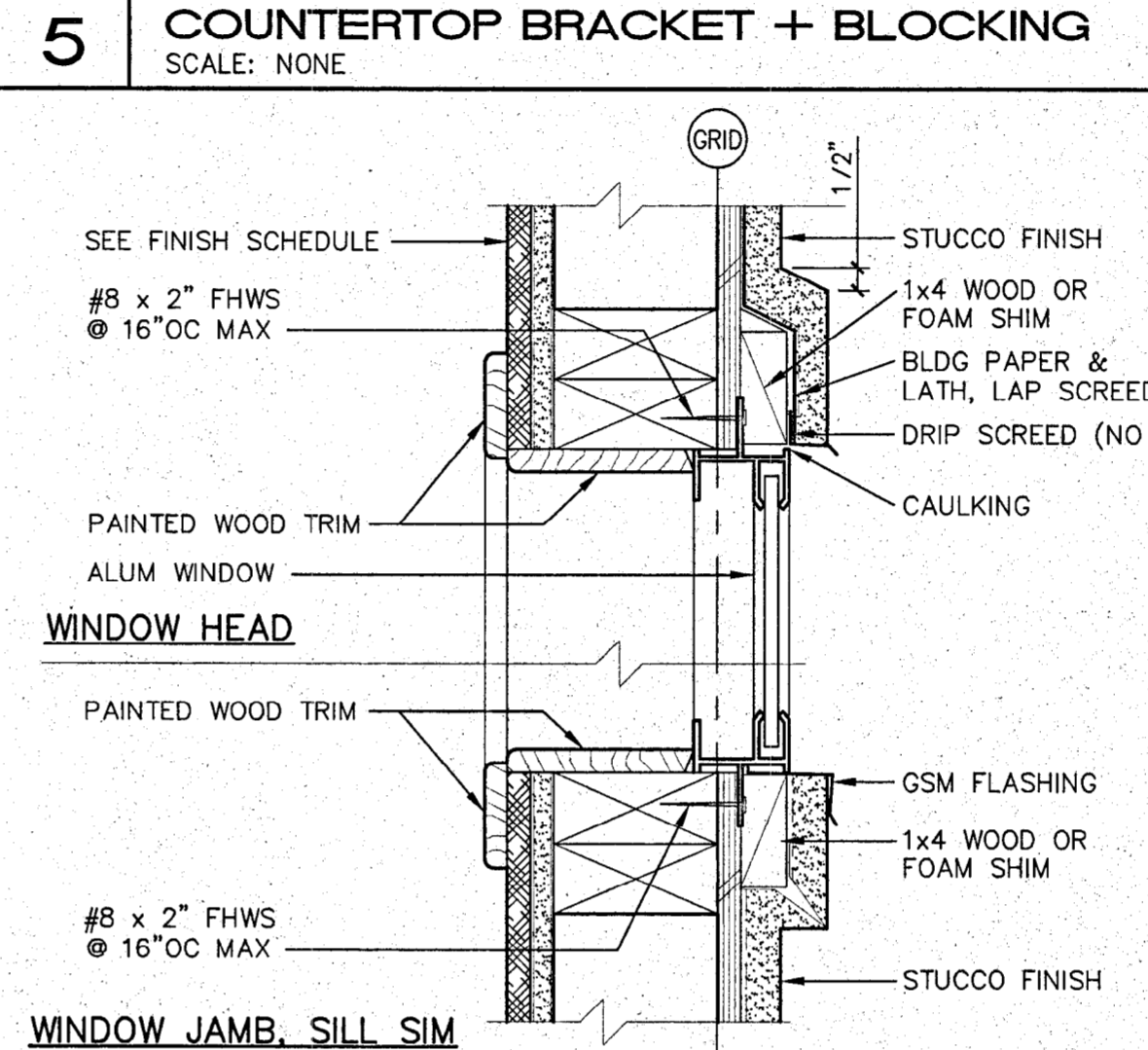
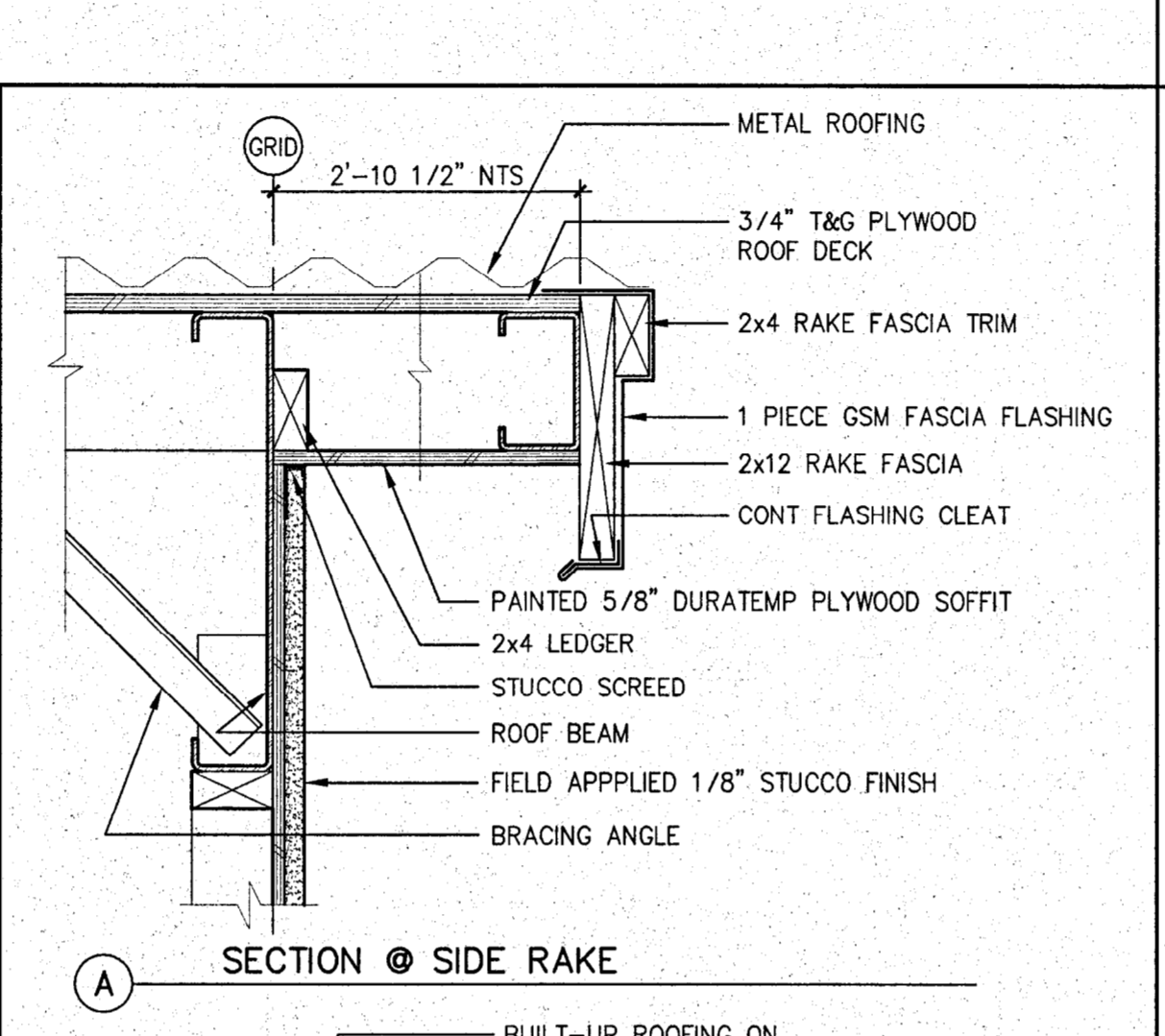
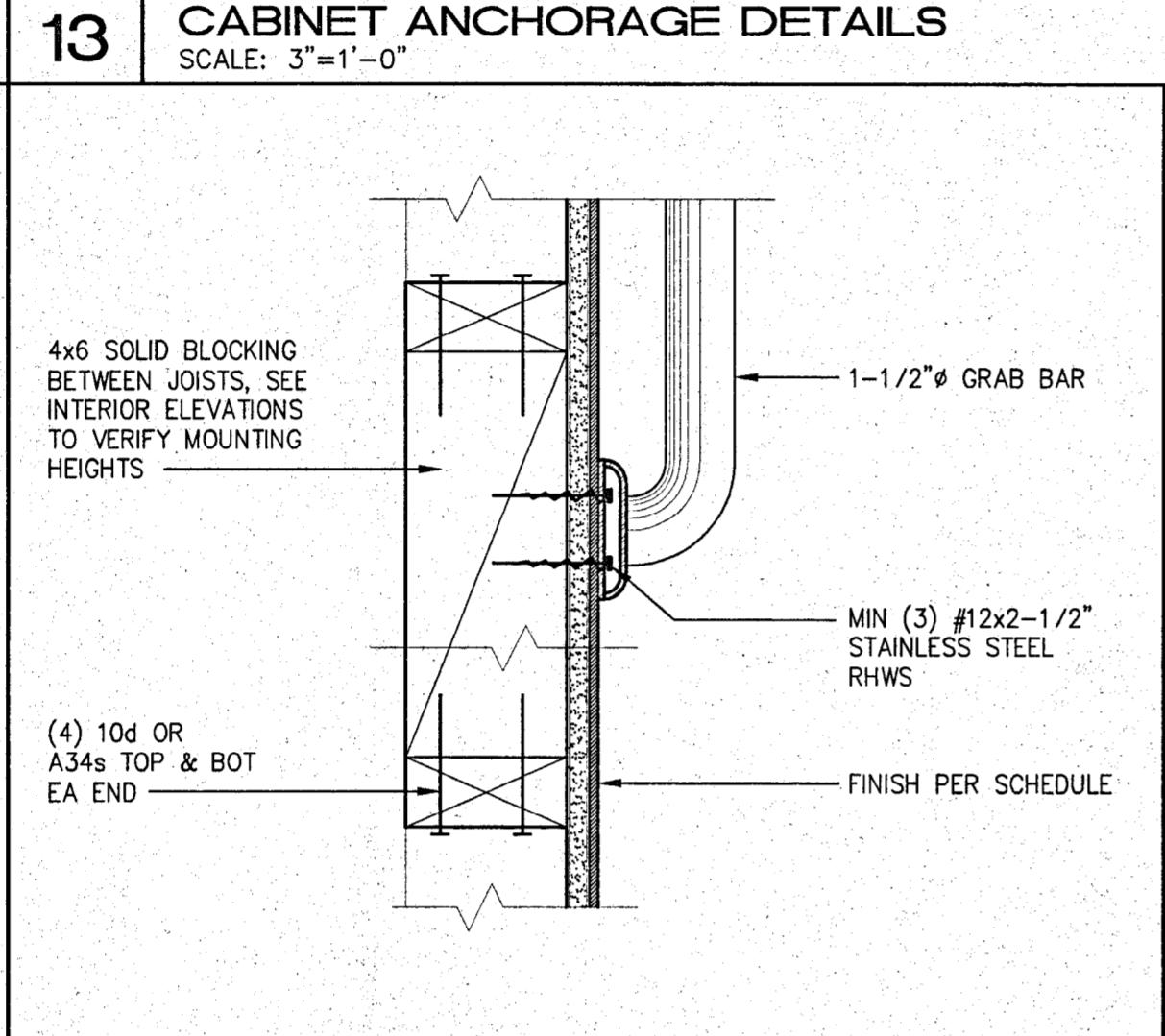
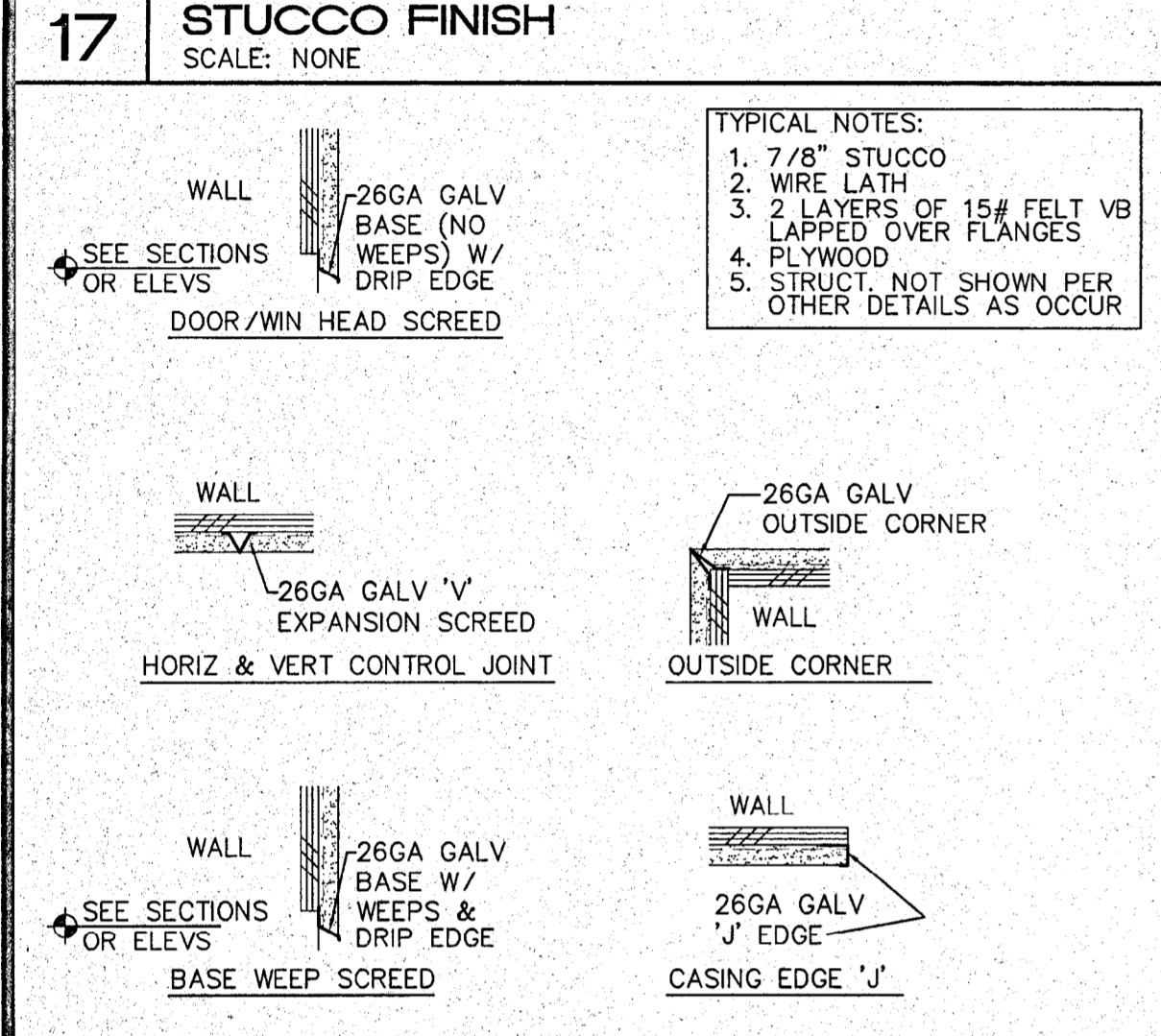
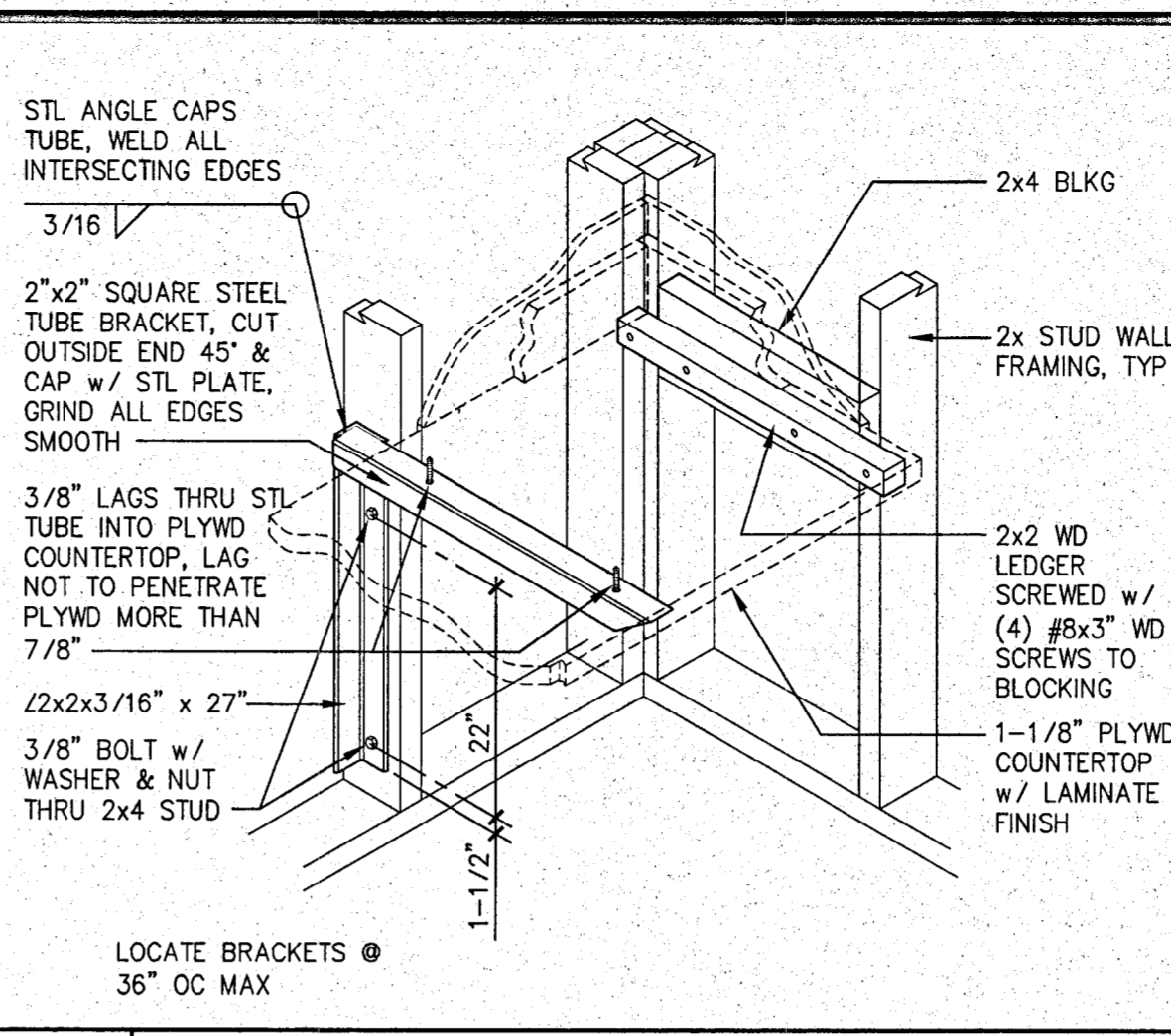
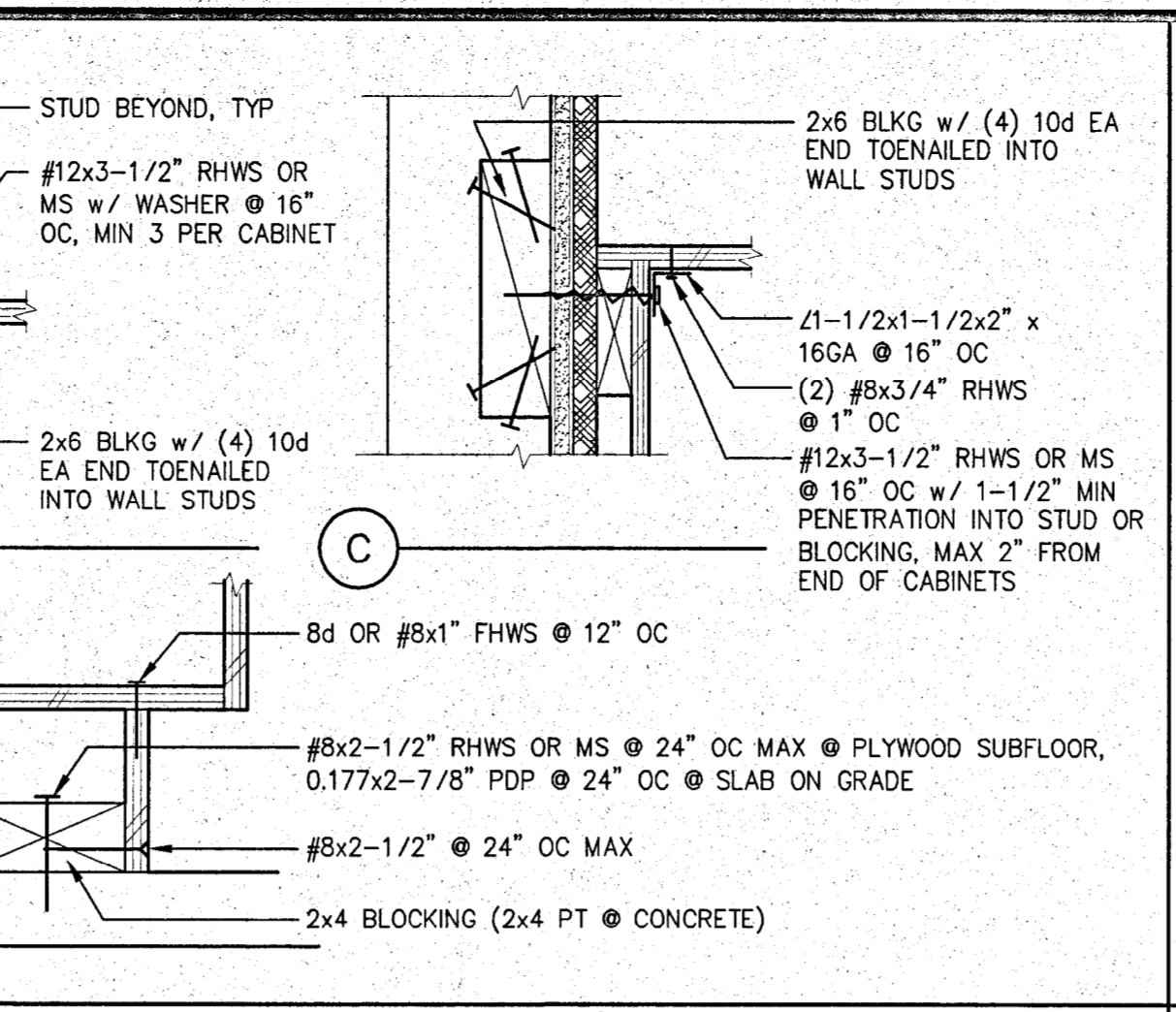
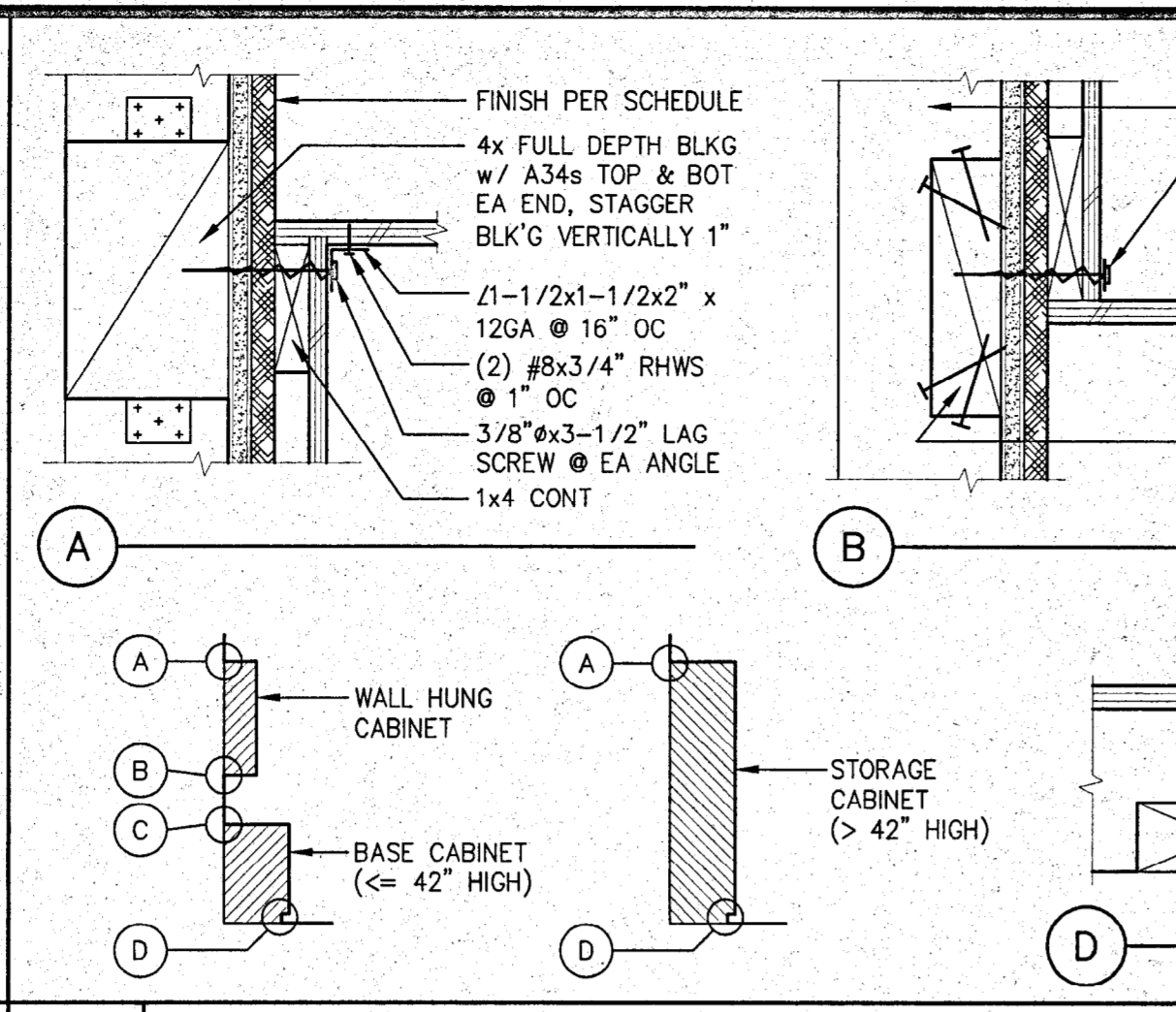
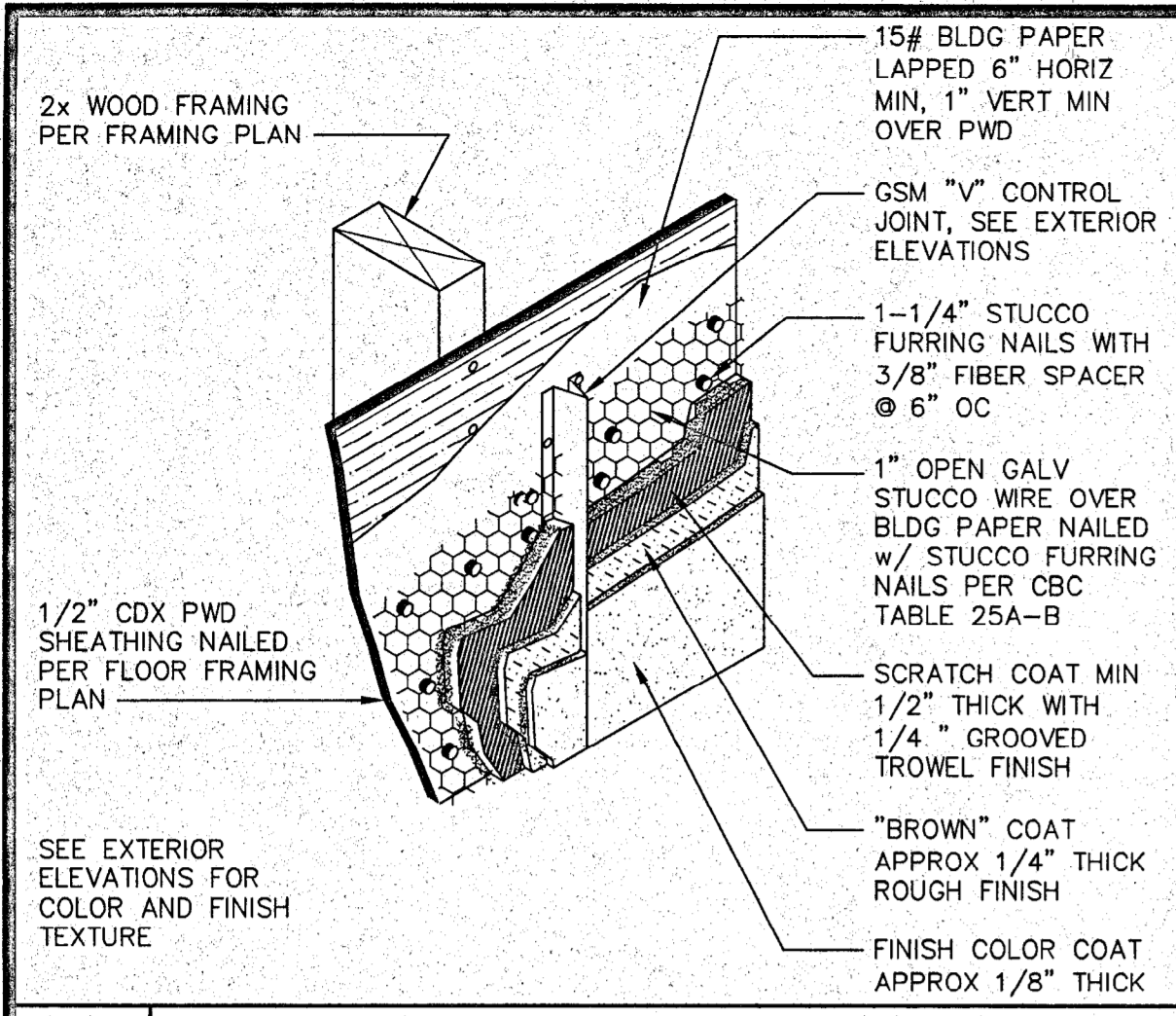
**NAPA VALLEY VINTNERS
TEACHING WINERY
Napa Valley College
Napa, California**

**WALL TYPES +
SCHEDULES**

DATE: JULY 26, 2001
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DRAWN BY: PLV/P
JOB: 00-107

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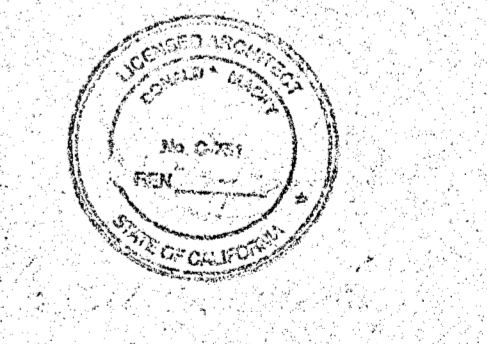
**NAPA VALLEY VINTNERS
TEACHING WINERY**
Napa Valley College
Napa, California

**ARCHITECTURAL
DETAILS**

DATE: JULY 26, 2001
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JOB: 00-107

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GENERAL

- ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF TITLE 24 CALIF. CODE OF REGULATIONS PART 2 OF THE STATE BUILDING CODE, 1998 EDITION AND LATER AMENDMENTS.
- MIN ALLOWABLE SOIL BEARING PRESSURE 1000 PSF UNO DEAD PLUS LIVE. $F_{BR} = 1000$ PSF
D+L INCL WIND & SEISMIC $F_{BR} = 1330$ PSF
SEE SHEETS RS1.1 & RS1.2 FOR DESIGN CRITERIA

STRUCTURAL STEEL & MISC. METALS, BOLTS, ETC.

- ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE "DESIGN FABRICATION OF STRUCTURAL STEEL FOR BUILDINGS BY AISC." STRUCTURAL STEEL SHALL MEET THE FOLLOWING ASTM REQUIREMENTS:
SHAPES & PLATES ASTM A-36
TUBES ASTM A-500, GRADE B
LIGHT GAGE MEMBERS ASTM A-570, GRADE 45
STANDARD MACHINE BOLT ASTM A-307
HIGH STRENGTH BOLTS ASTM A-325
- ALL STEEL MEMBERS SHALL BE GIVEN ONE SHOP COAT OF RUST INHIBITIVE PRIMER PRIOR TO ERECTION, EXCEPT THAT STEEL ENCASED IN CONCRETE OR MASONRY SHALL NOT BE PAINTED.
- BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-307 (UNLESS NOTED OTHERWISE ON DRAWINGS). HOLE SIZE 1/16" MAX LARGER THAN BOLT.
- WELDING ELECTRODES SHALL MEET AWS REQUIREMENTS EXCEPT THAT WELD METAL SHALL MATCH OR EXCEED TENSILE STRENGTH OF PARENT METAL. GENERALLY, ELECTRODES SHALL BE E70XX FOR SHIELDED METAL ARC, F7XX-EXXX FOR SUBMERGED ARC, AND E70-X FOR GAS METAL ARC.
- ALL STRUCTURAL WELDS SHALL BE BY AN APPROVED AWS WELDER AND CERTIFIED BY A DSA APPROVED TESTING AGENCY.
- DRY PACK WHERE SPECIFIED TO BE MASTER BUILDERS "EMBECCO" #636 OR EQUAL WHERE NOT EXPOSED TO WEATHER, OTHERWISE USE "QUIKRETE" 1585-01 OR "RAPID SET" NON-SHRINK EXTRA HIGH STRENGTH GROUT.
- DRILLED CONCRETE ANCHORS ARE TRU BOLT WEDGE ANCHORS BY ITW CORPORATION WHERE NOTED. (ICBO#1372)
- WELDING INSPECTION SHALL BE PERFORMED BY AN AWS/CM CERTIFIED WELDING INSPECTOR.

MINIMUM NAILING SCHEDULE (USE TABLE 23A-I-Q OTHERWISE)

- JOIST OR RAFTERS AT ALL BEARINGS- TOE NAILS, EACH SIDE (2)10d
JOISTS OR RAFTERS TO SIDE OF STUDS EIGHT (8) INCH JOISTS OR LESS FOR EA ADDITIONAL 4" OF JOIST DEPTH (3)10d (1)10d
BLOCKING BETWEEN JOISTS TO JOIST OR RAFTERS-TOE NAIL, EA SIDE, EA END TO JOIST OR RAFTER BEARINGS, TOE NAIL, EA SIDE (2)10d (2)8d
BLOCKING BETWEEN STUDS, EACH END BRIDGING TO JOISTS, TOE NAIL EACH END TOE NAIL (2)10d (2)8d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL 10d @ 16" OC OR 16d GUN @ 12" OC
TOP PLATE TO STUD, END NAIL TOE NAIL (2)10d OR (3)16d GUN (4)8d OR (3)10d GUN (END NAIL)
DOUBLED STUDS, FACE NAIL 10d @ 12" OC OR 16d GUN @ 8" OC
DOUBLED TOP PLATES, FACE NAIL 10d @ 12" OC OR 16d GUN @ 8" OC
TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL (2)10d OR (3)16d GUN
CONTINUOUS HEADER, TWO PIECES 10d @ 12" OC ALONG EA EDGE
TOP PLATES, SPLICES WITHIN 4' LAP (14)16d GUN

CONCRETE CONSTRUCTION

- CONCRETE SHALL BE HARD ROCK, WITH A DESIGN COMPRESSION STRENGTH OF $F'_C = 3000$ PSI IN 28 DAYS. MIX DESIGN SHALL BE PER SEC. 1905A.2.3 METHOD B OR A NON DESIGNED MIX MUST CONFORM TO TABLE 19A-A-7 WITH THE FOLLOWING MINIMUM PROPORTIONS:
AGGREGATE SACKS CEMENT GALLONS WATER
SIZE - MAX PER YARD PER SACK CEMENT
3/4" TO 1" 7.1 6.0
1 1/2" 6.6 6.0
BATCH PLANT INSPECTION MAY BE WAIVED WITH ARCHITECTS APPROVAL & CONFORMANCE WITH 1928A.5.
- REINFORCING STEEL TO BE DEFORMED NEW BILLET STEEL, ASTM A-615, GRADE 40 #5 & UNDER, GRADE 60 #6 & GREATER.
CONCRETE COVER FOR REINFORCING STEEL - "CLR" CAST AGAINST EARTH OR GRADE - 3" EXPOSED TO EARTH OR GRADE #5 & SMALLER - 1 1/2" #6 & LARGER - 2" NOT EXPOSED TO EARTH OR WEATHER - 1" SLABS - FROM TOP OF CONC - 2" ALL REINFORCING BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN A STANDARD 90 OR 180 HOOK UNLESS DETAILED OTHERWISE.

WOOD CONSTRUCTION

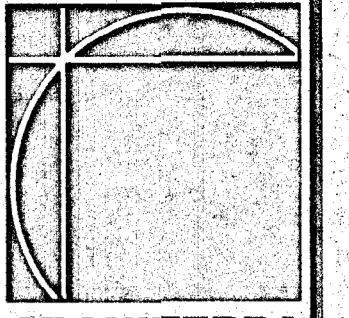
- SAWN FRAMING LUMBER SHALL BE DF #1 OR BETTER, UNO IN SPECS. OTHER GRADE REQUIREMENTS ARE AS NOTED ON THE DRAWINGS.
- NAILS TO BE OF COMMON WIRE WHERE NAILING IS SPECIFIED ON THE DRAWINGS, OTHERWISE BOX NAILS MAY BE USED PER NAILING SCHEDULE. NAILS USED IN EXTERIOR APPLICATIONS TO BE GALVANIZED & SHALL CONFORM TO 2318A.3.4 FOR CORROSION RESISTANCE.
- WHERE METAL FRAMING CLIPS, HANGERS, ETC. ARE INDICATED ON THE DRAWINGS, THEY ARE "SIMPSON STRONG TIE", PER CATALOG C-2000. MAILING ADDRESS IS: P.O. BOX 1568, SAN LEANDRO, CA. 94577. NAILING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS WITH A NAIL PROVIDED FOR EACH PUNCHED HOLE. WHERE NAILS ARE SPECIFIED TO BE FURNISHED BY THE MANUFACTURER THEY SHALL BE USED IN PLACE OF COMMON NAILS.
- ALL WOOD SHALL BE PRESSURE TREATED PER UBC STANDARDS THAT IS LOCATED AS FOLLOWS: (UBC STD 25-12)
1) WOOD IS IN CONTACT WITH EARTH.
2) JOISTS ARE WITHIN 18" OF HEIGHT ABOVE EARTH & GIRDERS WITHIN 12".
3) WOOD IS WITHIN 6" OF EXTERIOR PAVING THAT IS SLOPING AWAY FROM BUILDING AND EXTERIOR PAVING IS AT LEAST 18" WIDE.
- STRUCTURAL PLYWOOD SHALL BE GRADED AS NOTED ON DRAWINGS, STAMPED AND GRADED BY APA WITH EXTERIOR GLUE, PER EXPOSURE 1, ALL WOOD PLYS. PLYWOOD SHEETS SHALL ABUT ALONG CENTER LINE OF FRAMING MEMBER.
- FLOOR PLYWOOD SHALL BE GLUED TO METAL JOISTS IN ACCORDANCE WITH AMERICAN PLYWOOD ASSOCIATION STANDARDS.
- STRUCTURAL PLYWOOD SHALL CONFORM TO APA PS 1-95.

SHEAR WALL SCHEDULE

SW #	ply	Ply edge nailing 6d nails	Frame to Top 1/2" x 2 1/2" RHWS 223	Side to Column 140# PDP ICBO EN 1639 120	Side to Column 3/8" studs 23A-F 608 958	Allowable Gap at top plate conn using 3/8" MB	Base plate 5/8" AB #12 x 3 1/2" RHWS 169 1503	Still plate to Starwall 5/8" AB 23A-K-2 1400	Allowable Shear 23A-K-1 23A-K-1
6	1/2" CD exposure 1 (32)16	In oc	In oc	In oc	In oc	In	In oc	In oc	In oc
4	do	4	8	4	22	0.20	6	4.0	350
3	do	3	5	3	23	0.15	4	3.1	490
4-4	do	4-4	4	NA	16	0.10	3	2.1	700

- Notes:
- Field nailing 6d @ 12" oc.
 - No holes allowed in shear walls without engineers written permission.
 - 3x members are required at all edges for shear walls # 3 & 2 and where ply is both sides. This includes top plates (unless double), column attachments, sills, blocking and ply splices.
 - Shear walls more than one vertical panel in height shall have either vertical or horizontal staggered spliced joints. 3x blocking required at horizontal splices.
 - 3x nominal or double 2x studs interlaced at edge nail spacing @ all ply vertical splices.
 - Hold down brackets are required at ends of shear walls not connected to columns per foundation plan.
 - A maximum 1/2" single piece plywood shim to be used to offset anchor bolt nut, shim must be continuous bearing with no pieces shorter than 2 feet. If no shims are used, reduce #12 screw to 3" length.
 - Gap at top plate requires a MW or 3" square x 3/8" washer under double top plates
 - 2 x 2 x 3/8" FLATE WASHER AT EA A.B.

OWNER'S RECORD DOCUMENT - FOR REFERENCE ONLY



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NOTES, SHEAR WALL AND COLUMN SCH'LS

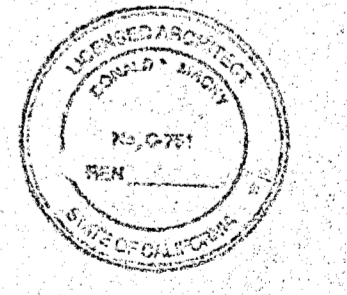
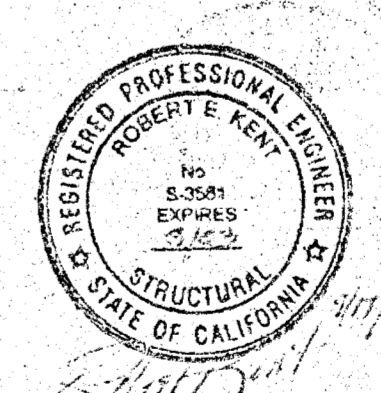
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JOB: 00-107

RS1.0

STEEL COLUMN SCHEDULE

TYPE	HEIGHT (BOTTOM OF BASE # TO BOTTOM OF STL ROOF STRUCTURE, UNO)	COLUMN SIZE	BASE # & DETAILS (ON 6" HIGH CURB, TYP UNO)	COLUMN BASE # SEE FOUNDATION PLAN FOR BASE # DIRECTION. TYP SEE SHEAR WALL SCHEDULE FOR STUD BOLT SPACING ON SIDES SHOWN. BASE # AB SIZE SHOWN VERIFY W/ PLAN @ SW	COL TO ROOF STRUCTURE & DETAIL	COLUMN POCKET BOLTING DIRECTION	REMARKS
B3	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	6 1/2" x 6 1/2" x 1/2"	6A (RS2.J) (2)5/8" x 24" THREADED ROD	10 (RS6.J)		
B4	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 11" x 1/2"	6B (RS2.J) (2)5/8" x 14" A.B.	10 (RS6.J)		
B5	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 9 1/2" x 1/2"	6B (RS2.J) (2)5/8" x 14" A.B.	10 (RS6.J)		
B6	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 9 1/2" x 1/2"	6B (RS2.J) (2)5/8" x 14" A.B.	10 (RS6.J)		
B7	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 9 1/2" x 1/2"	6B (RS2.J) (2)5/8" x 14" A.B.	10 (RS6.J)		
B8	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 9 1/2" x 1/2"	6B (RS2.J) (2)5/8" x 14" A.B.	10 (RS6.J)		
B9	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 9 1/2" x 1/2"	6B (RS2.J) (2)5/8" x 14" A.B.	10 (RS6.J)		
B10	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	6 1/2" x 6 1/2" x 1/2"	6A (RS2.J) (2)5/8" x 24" THREADED ROD	10 (RS6.J)		
Q3	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	6 1/2" x 6 1/2" x 1/2"	6A (RS2.J) (2)5/8" x 24" THREADED ROD	10 (RS6.J)		
Q4	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 9 1/2" x 1/2"	6B (RS2.J) (2)5/8" x 24" THREADED ROD	10 (RS6.J)		
Q5	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 9 1/2" x 1/2"	6B (RS2.J) (2)5/8" x 14" A.B.	10 (RS6.J)		
Q6	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 9 1/2" x 1/2"	6B (RS2.J) (2)5/8" x 14" A.B.	10 (RS6.J)		
Q7	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 9 1/2" x 1/2"	6B (RS2.J) (2)5/8" x 14" A.B.	10 (RS6.J)		
Q8	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 9 1/2" x 1/2"	6B (RS2.J) (2)5/8" x 14" A.B.	10 (RS6.J)		
Q9	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	3 1/2" x 9 1/2" x 1/2"	6B (RS2.J) (2)5/8" x 14" A.B.	10 (RS6.J)		
Q10	12'-6 1/2"	3 1/2"x3 1/2" x 1/4"	6 1/2" x 6 1/2" x 1/2"	6A (RS2.J) (2)5/8" x 24" THREADED ROD	10 (RS6.J)		
31, 32 T1, T2	FABRICATOR TO CALL- LATE HT.	5" x 5" x 1/4"	SEE COL. B4 SIM	SEE COL. B4 SIM (2)5/8" x 14" A.B.	-	-	FOR COL TO ROOF BEAM SEE 2/RS6.1

NOTE: ANCHOR BOLTS FOR COLUMNS THAT ARE AT ENDS OF A SHEARWALL TO HAVE 5/8" x " MIN. TREADED ROD PER ABOVE. ALL OTHERS 5/8" x 14" MIN. AB



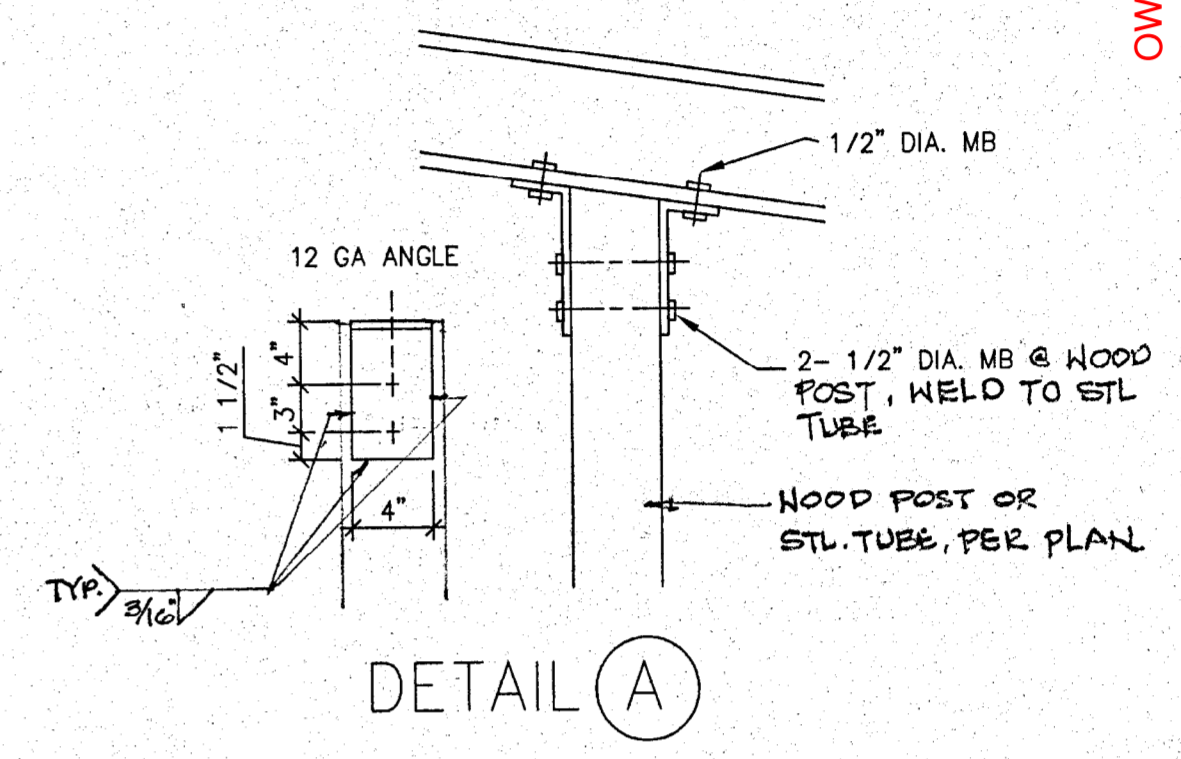
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SYMBOLS LEGEND:

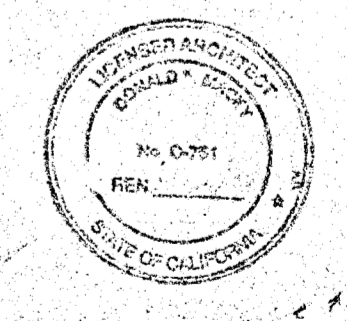
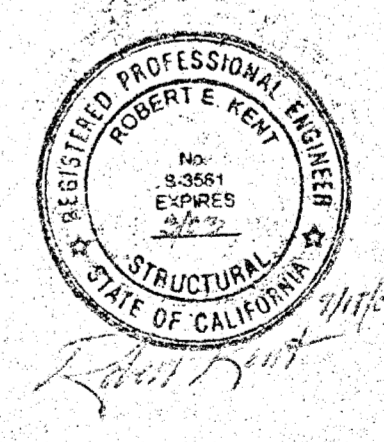
- CJ CONTROL JOINT SEE 19 RS2.1
- AG COLUMN SYMBOL SEE SHEET RS1.0
- ◇ SHEARWALL SYMBOL SEE SHEET RS1.0
- TYP BEARING FOOTING
- TYP THICKENED SLAB

NOTES:

① MSTA STRAP EACH SIDE, TOP & BOTTOM OF 2x4 W/ CENTER STRAP ON KING STUD. SEE ELEVATIONS



DESIGN CRITERIA	
LOADS	
SEISMIC ZONE	R = 5.5, I = 1.0
WIND SPEED	80 MPH
EXPOSURE	C
ROOF LIVE	20 PSF
FLOOR LIVE	100 PSF
FOUNDATION REQUIREMENTS	
SOILS REPORT BY: HERZOG GEOTECHNICAL	
DATED: AUG 30, 2001 PROJECT NO. 1021-07-01	
SEE REPORT FOR OVER EXCAVATION & ENGINEERED FILL REQUIREMENTS.	

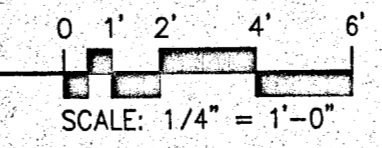


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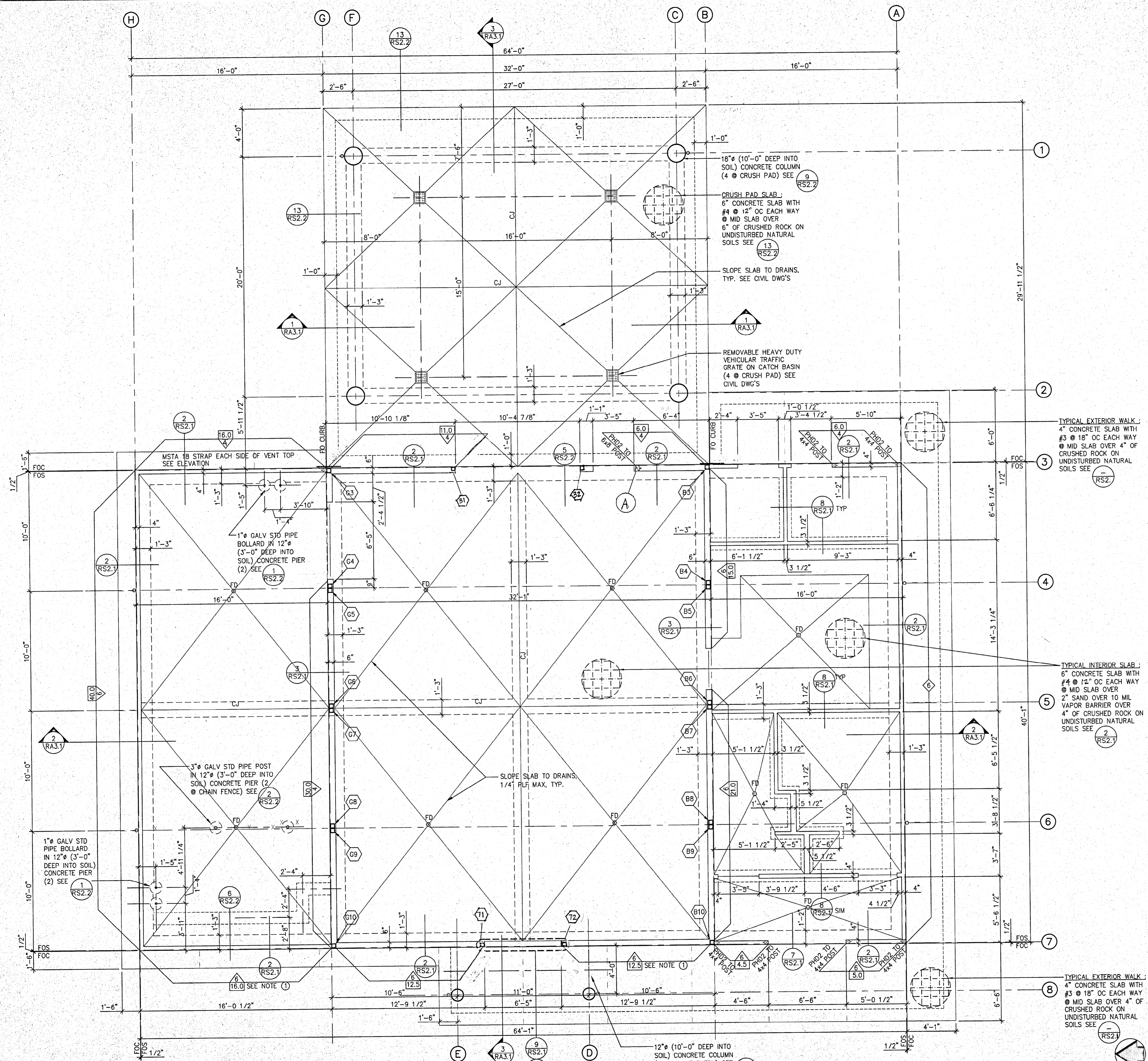
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DATE SEP 20 2001

PROJECT NORTH



FOUNDATION PLAN



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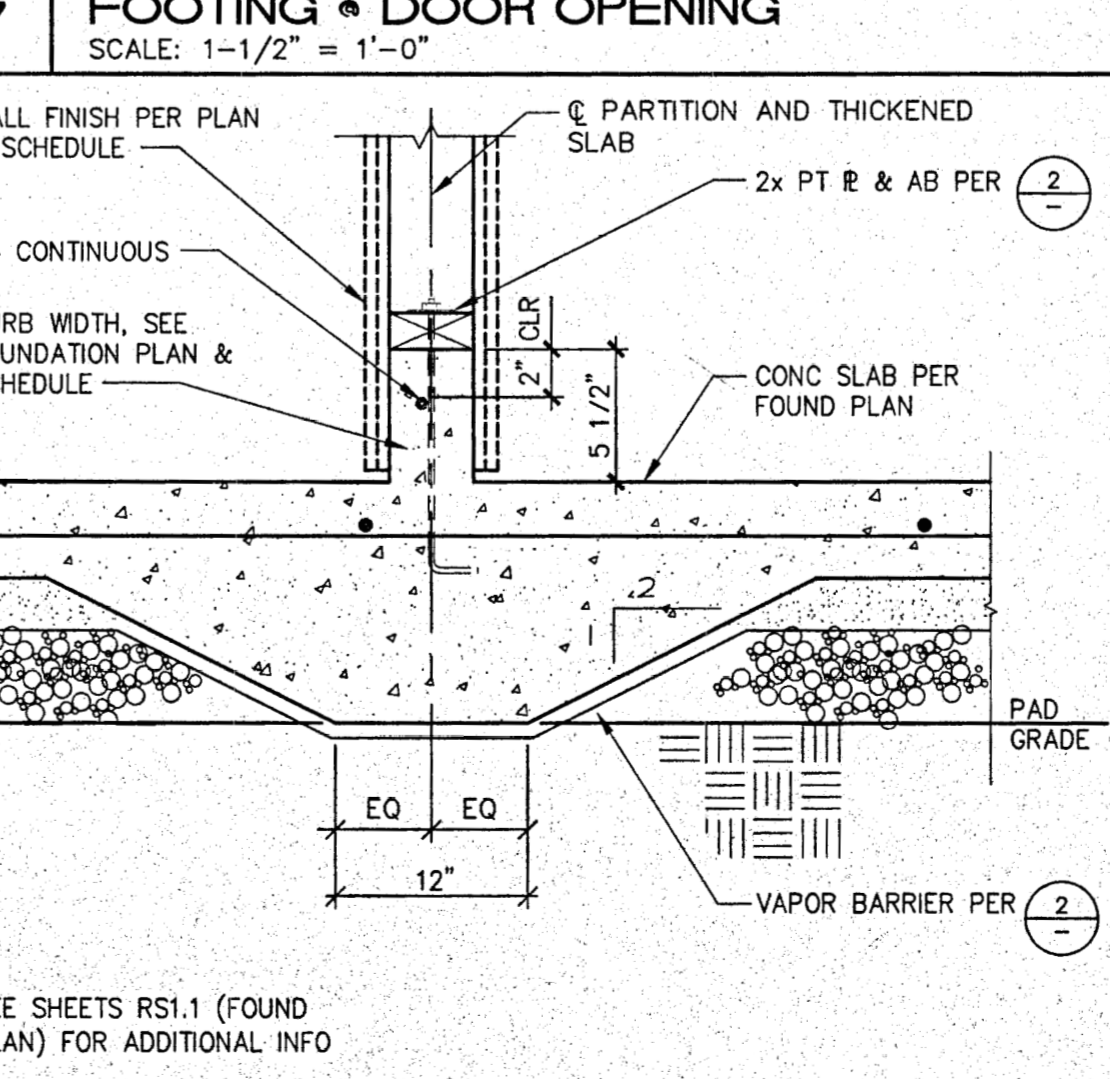
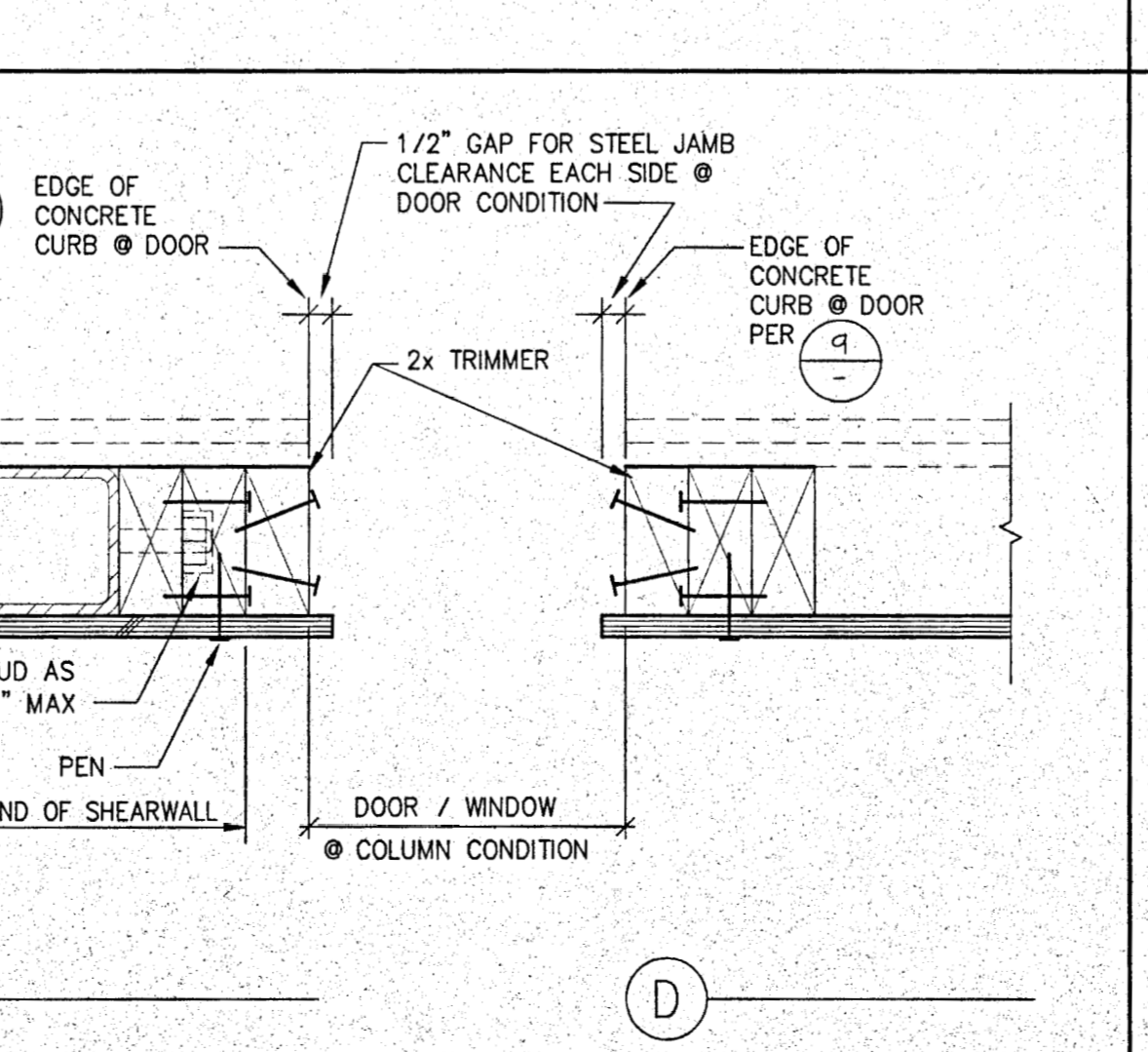
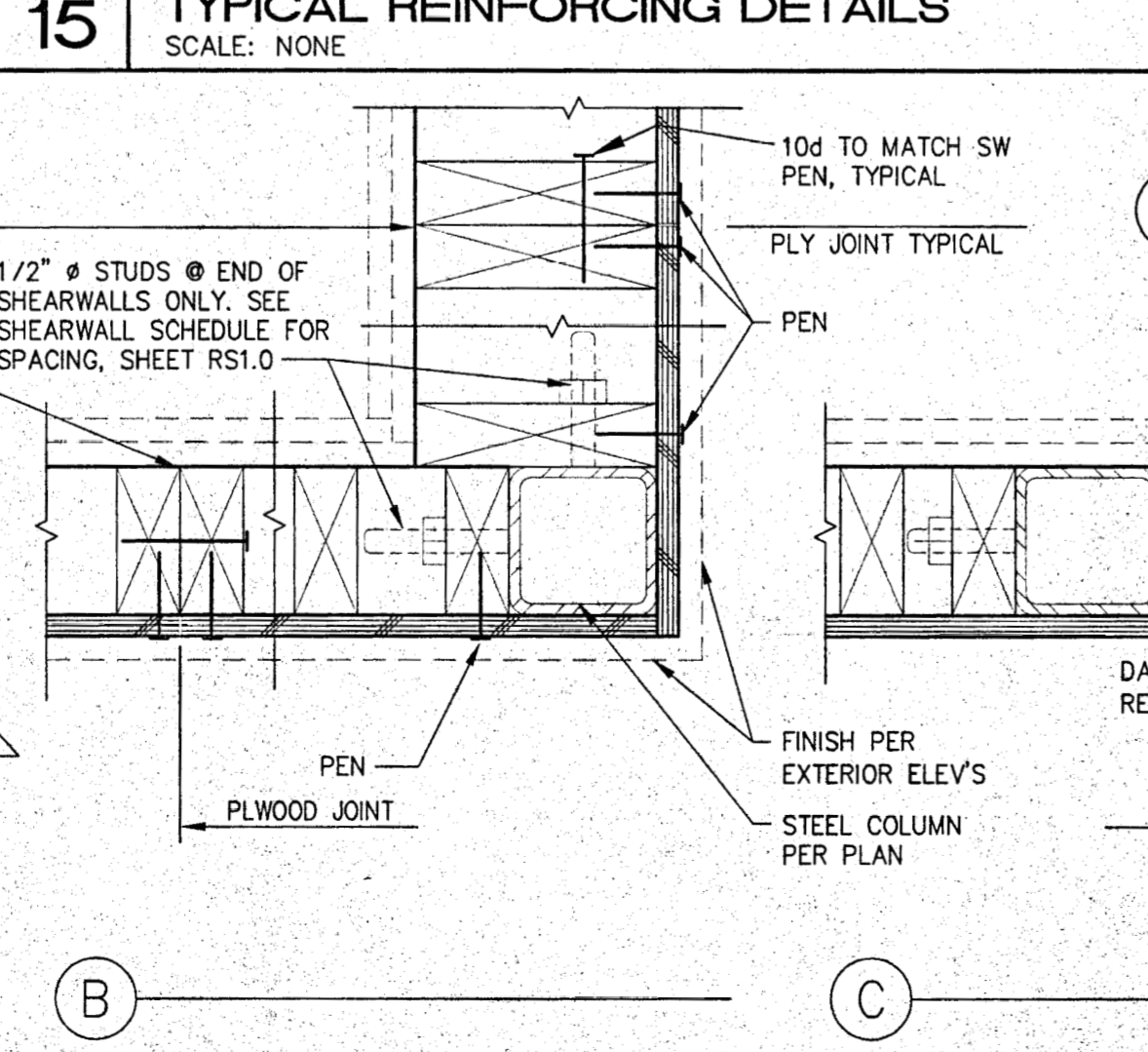
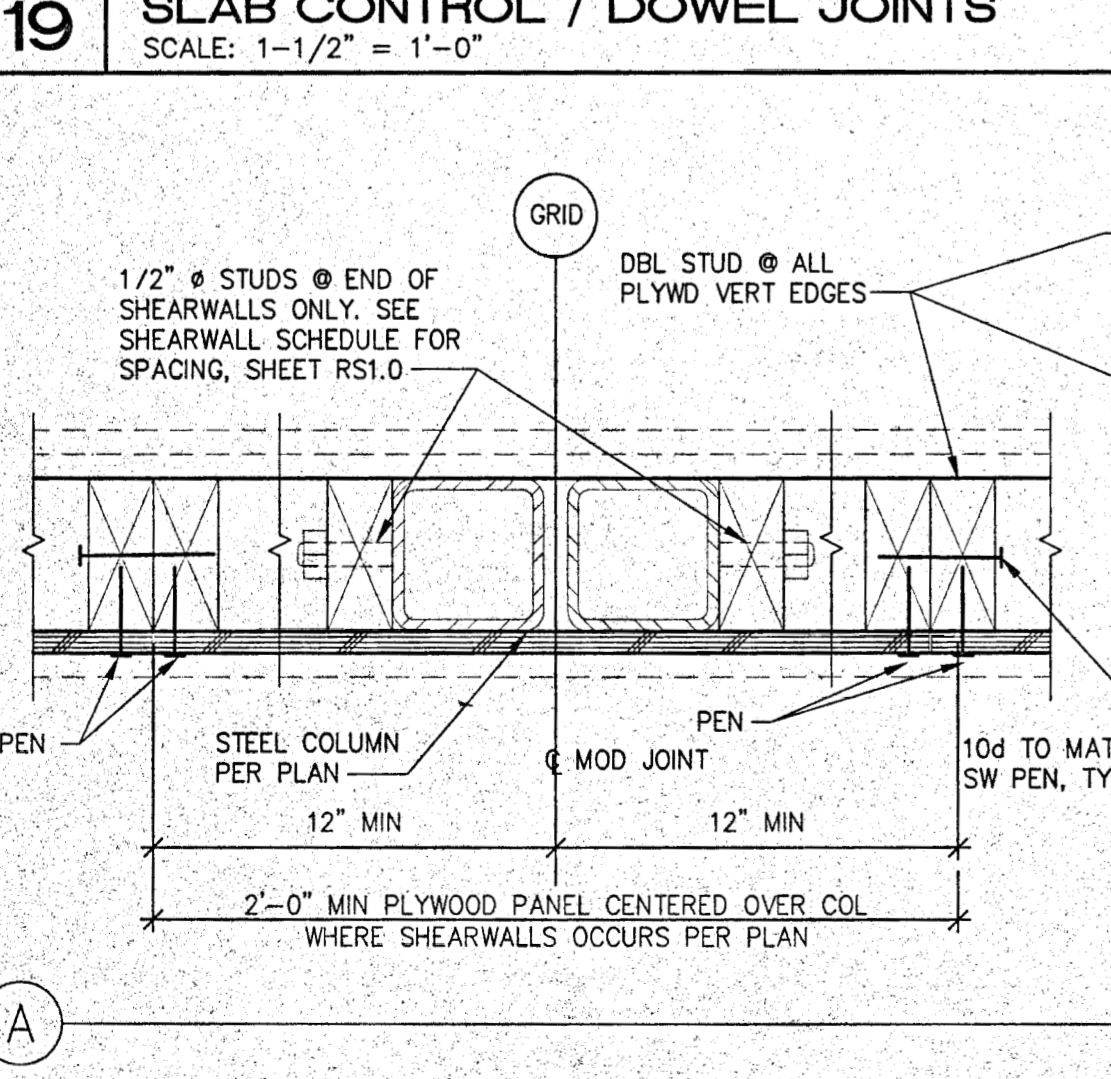
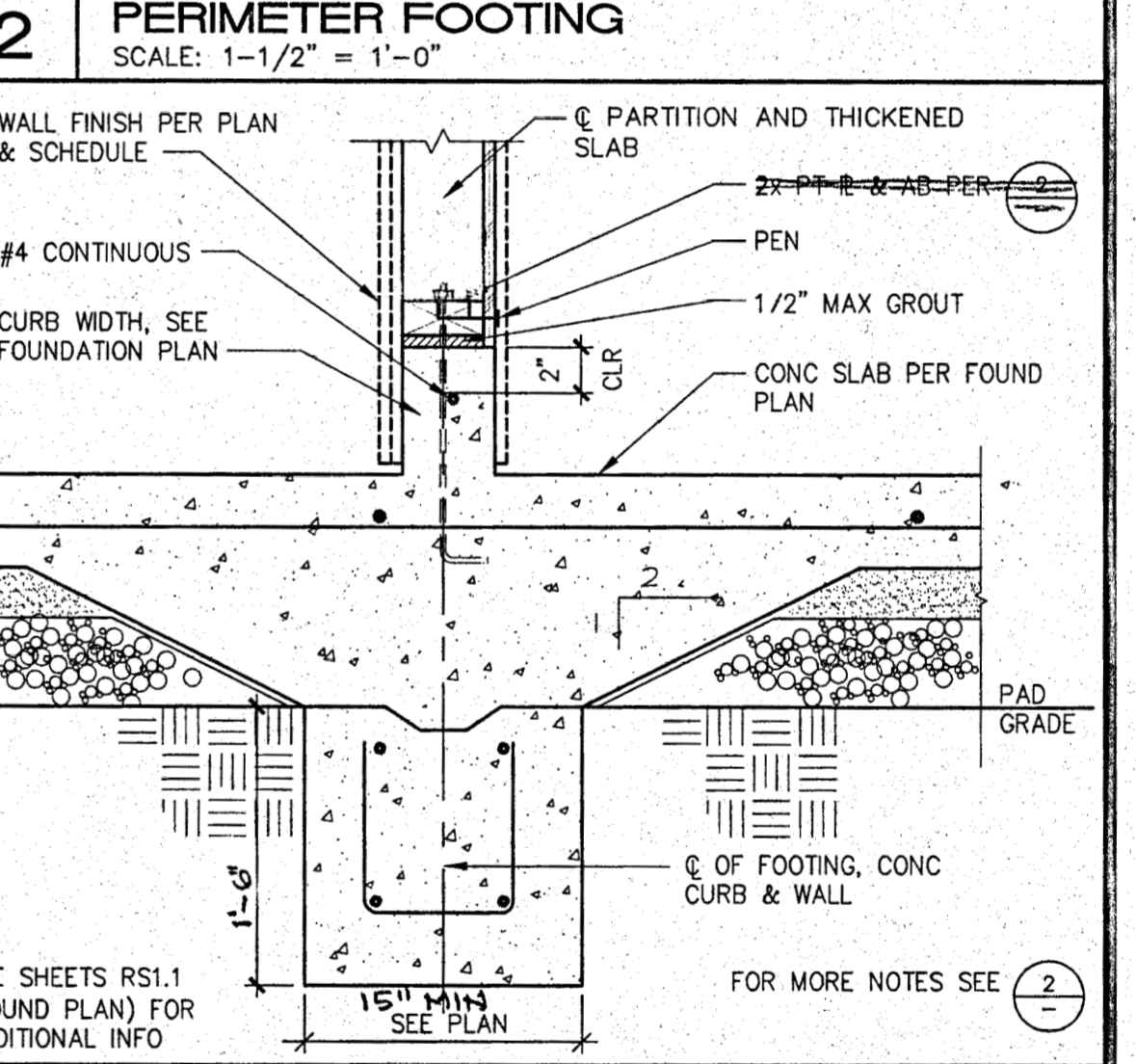
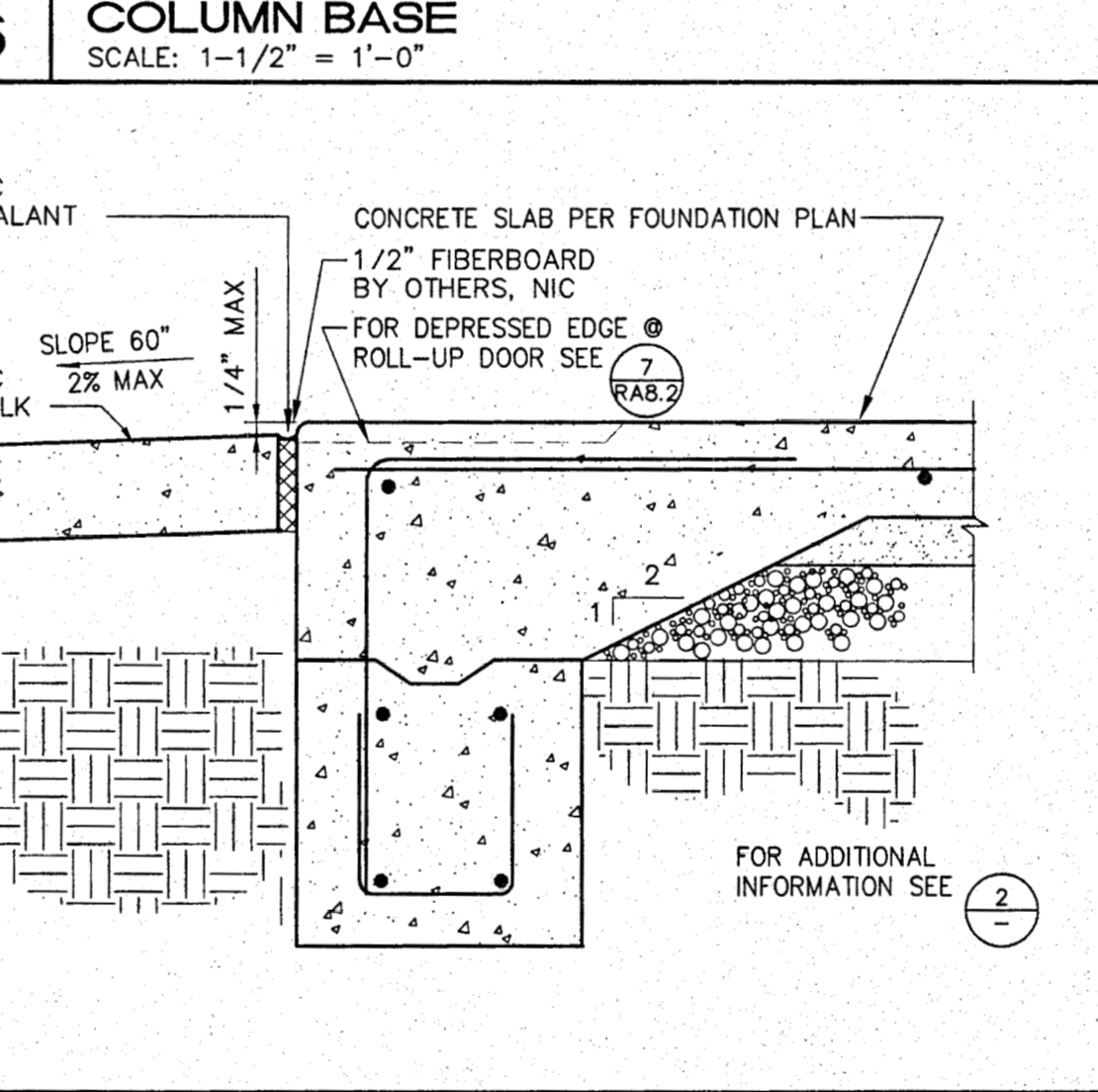
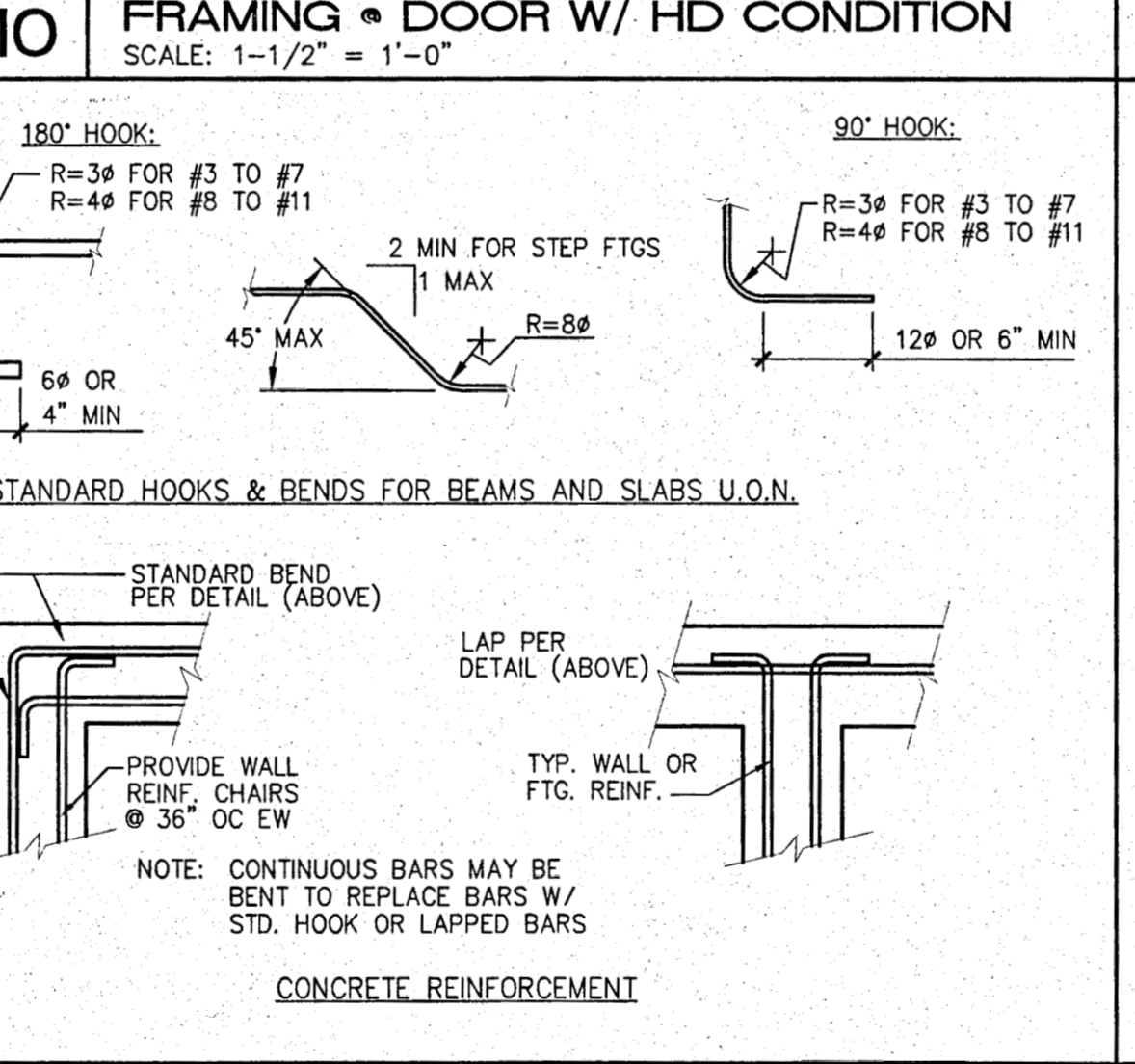
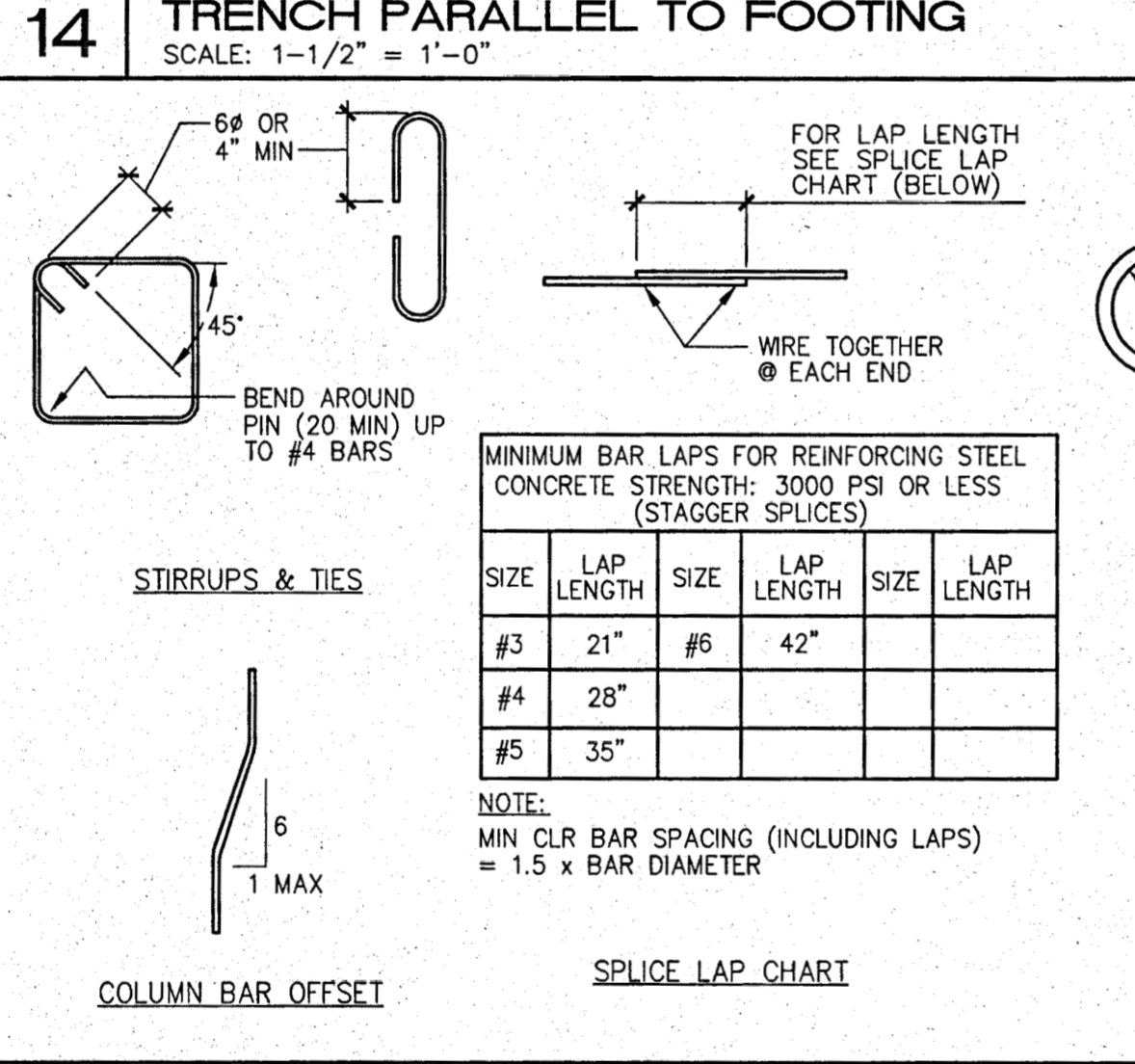
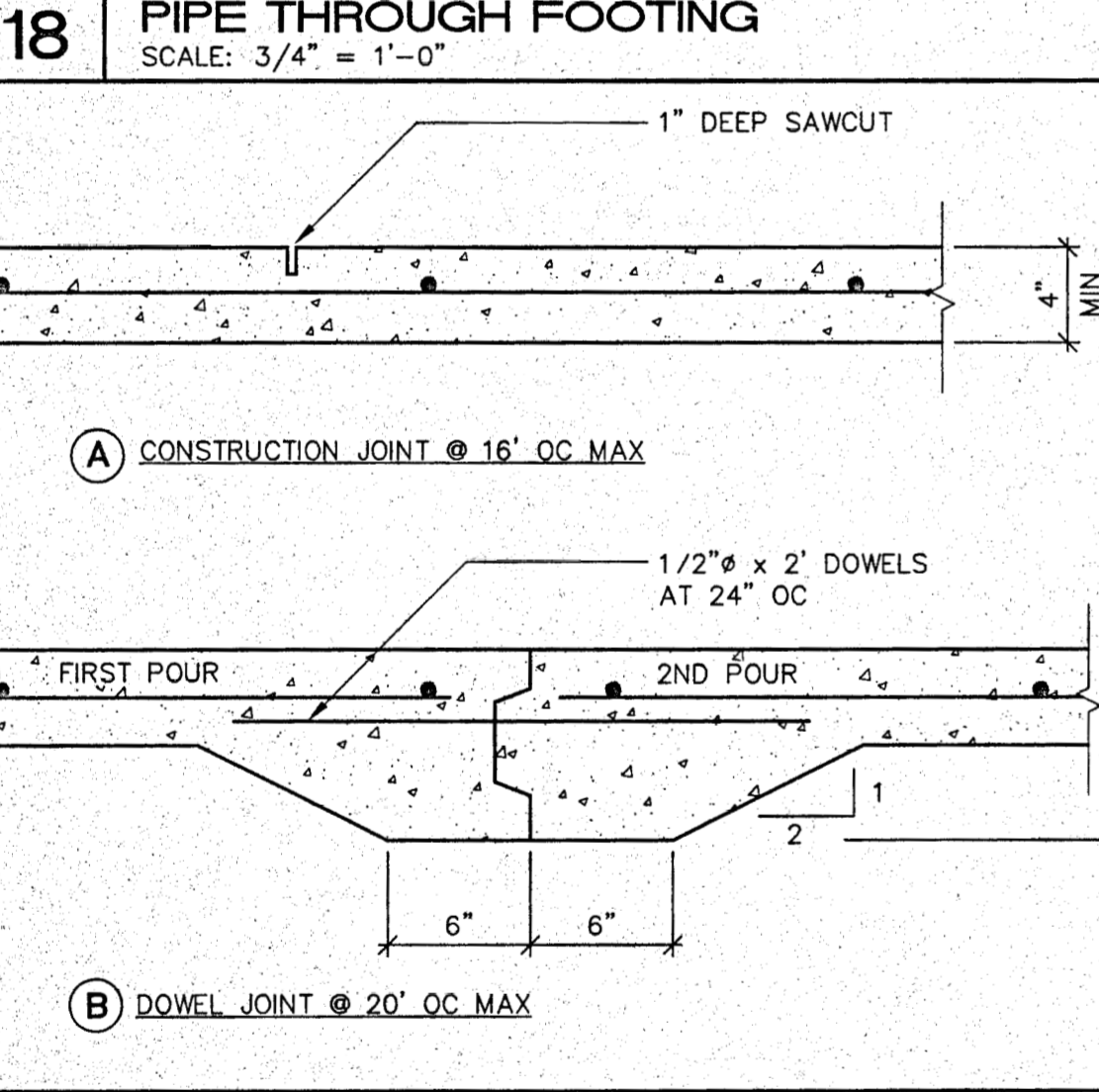
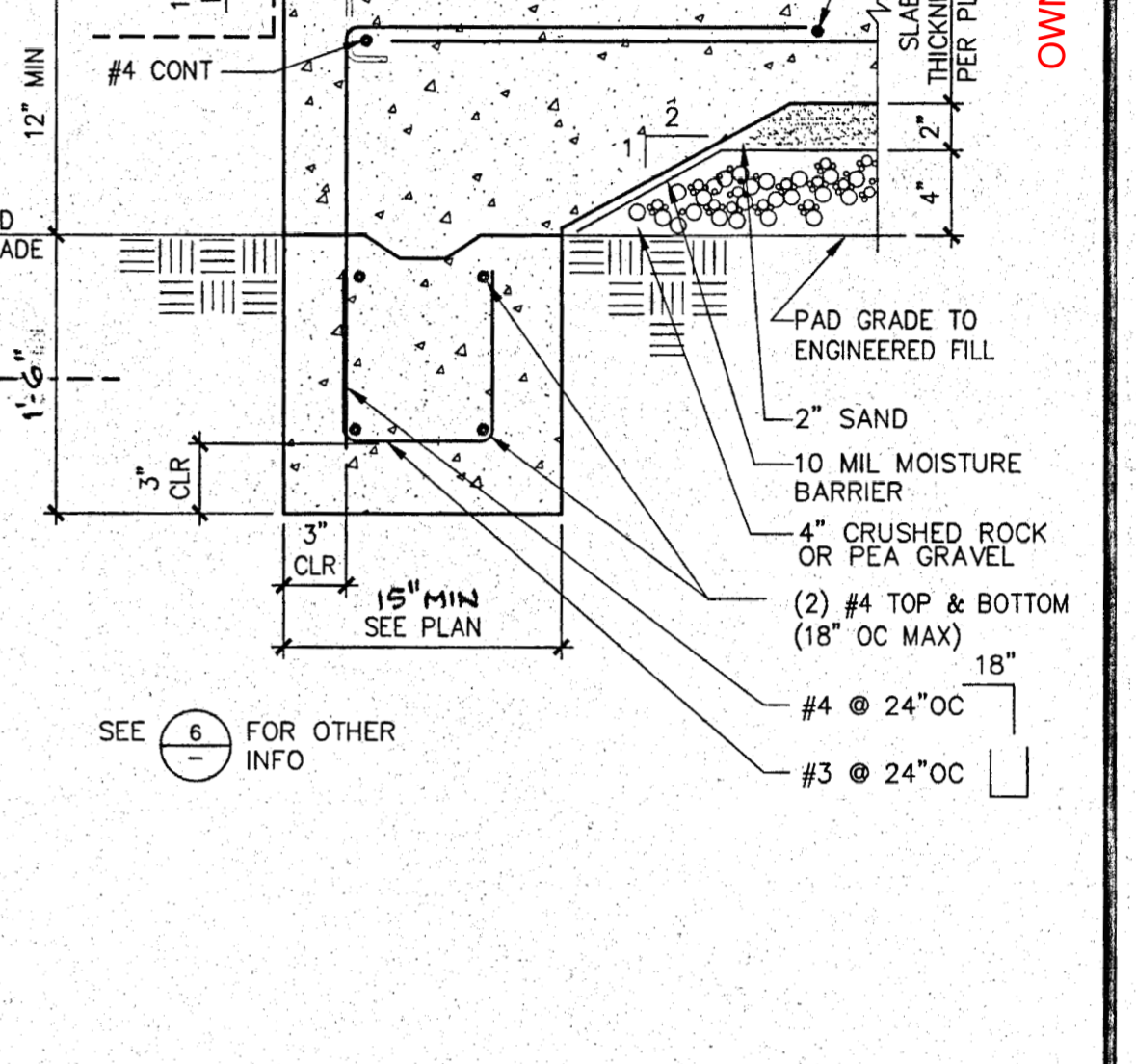
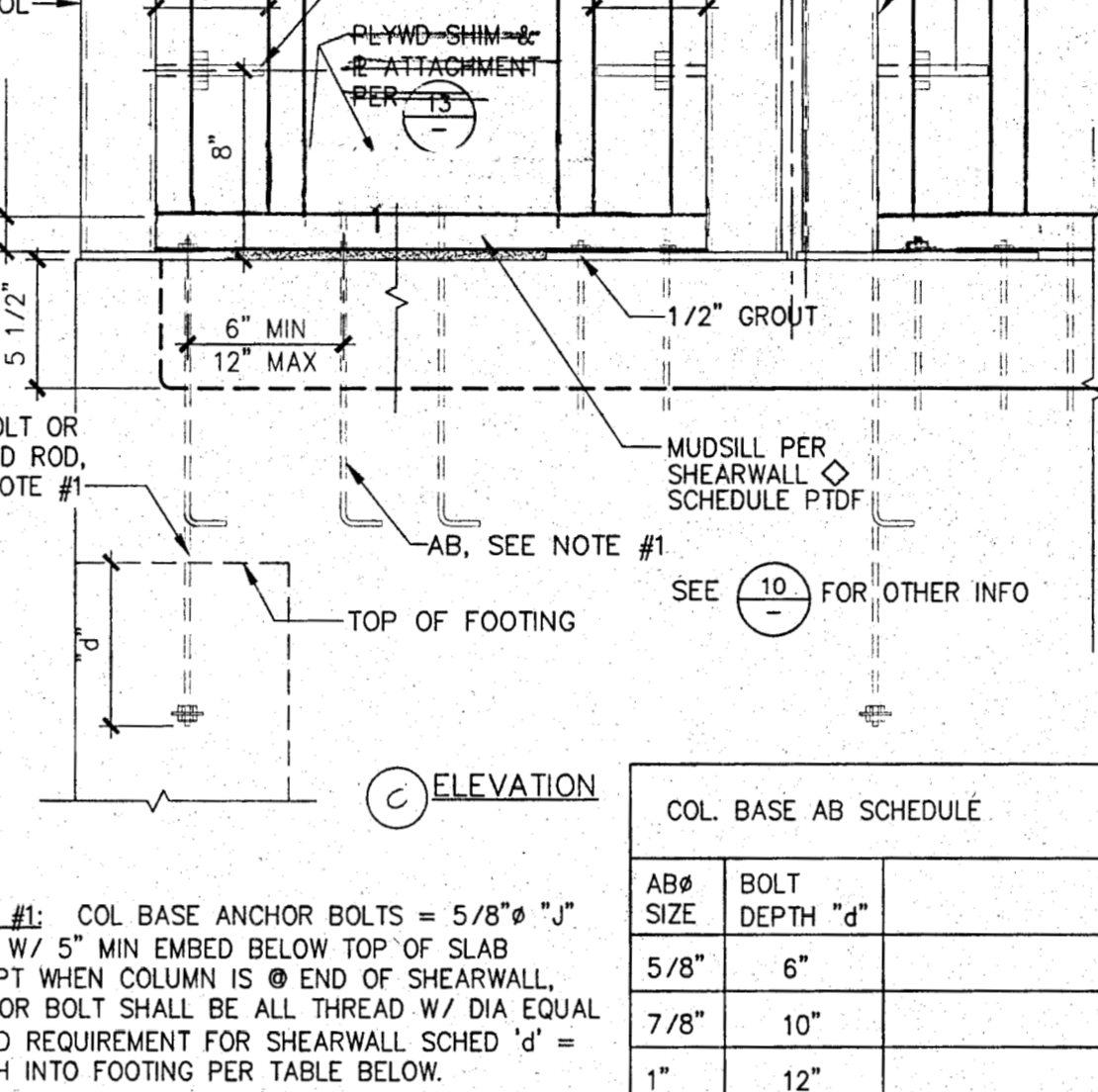
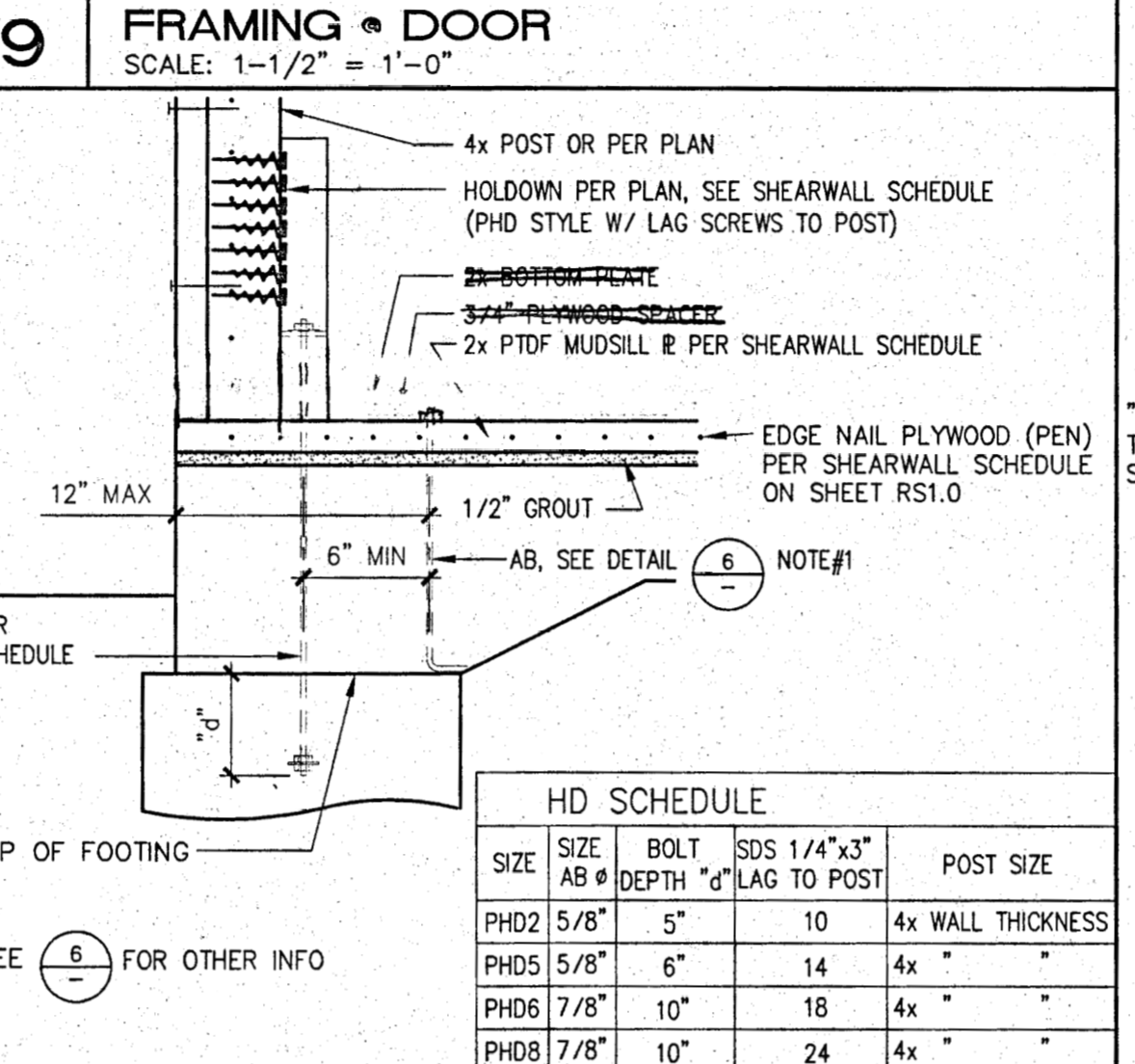
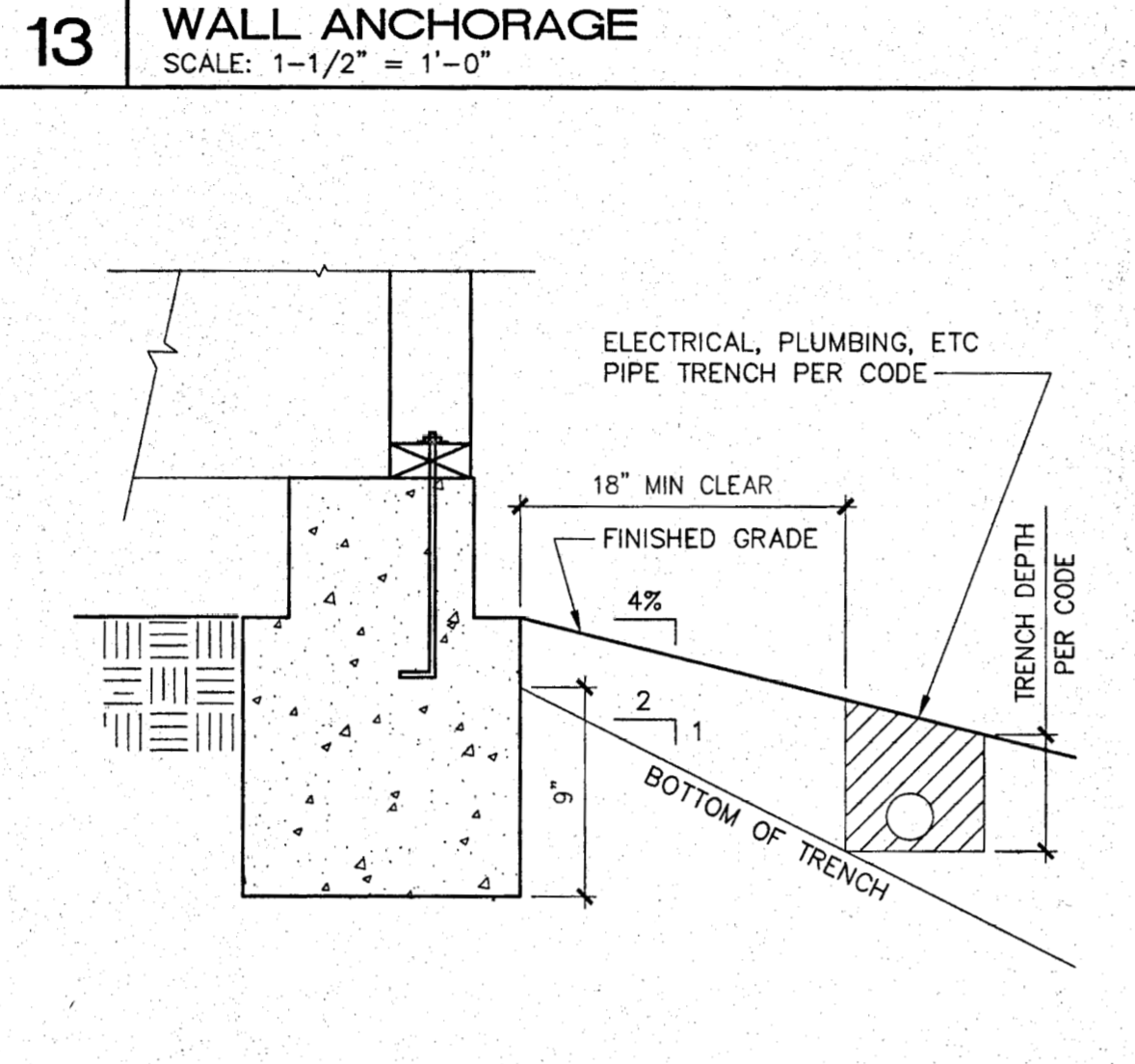
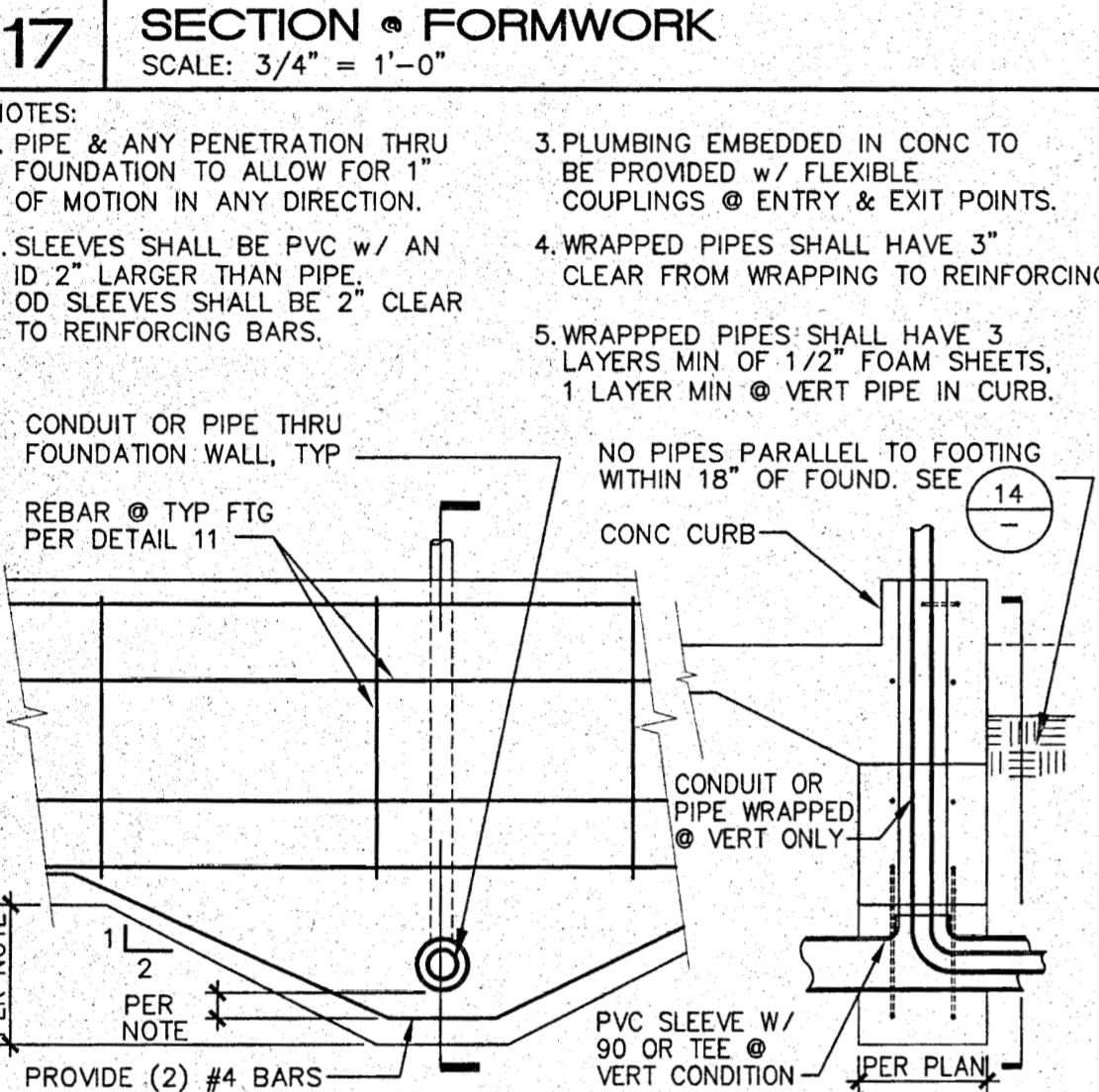
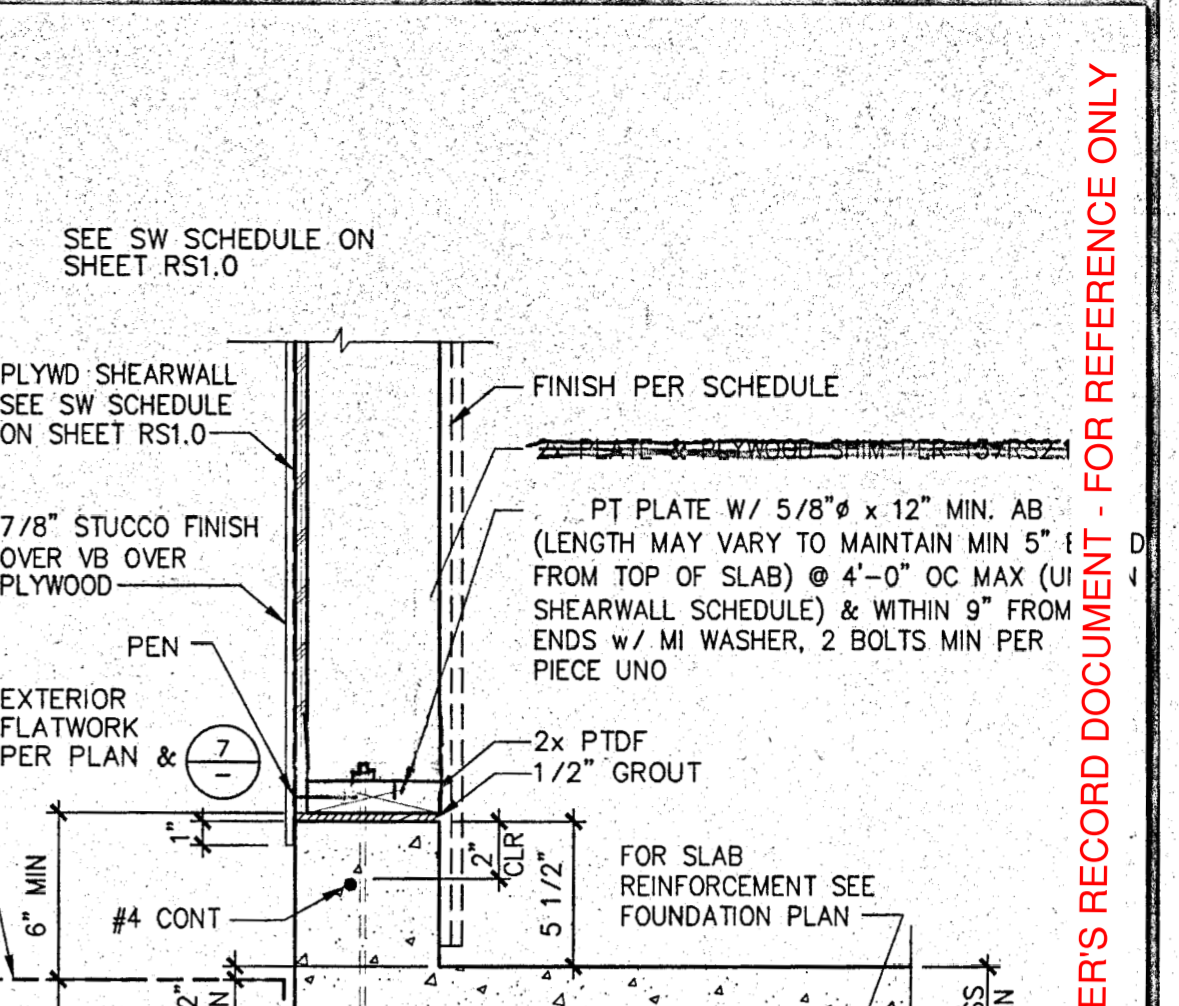
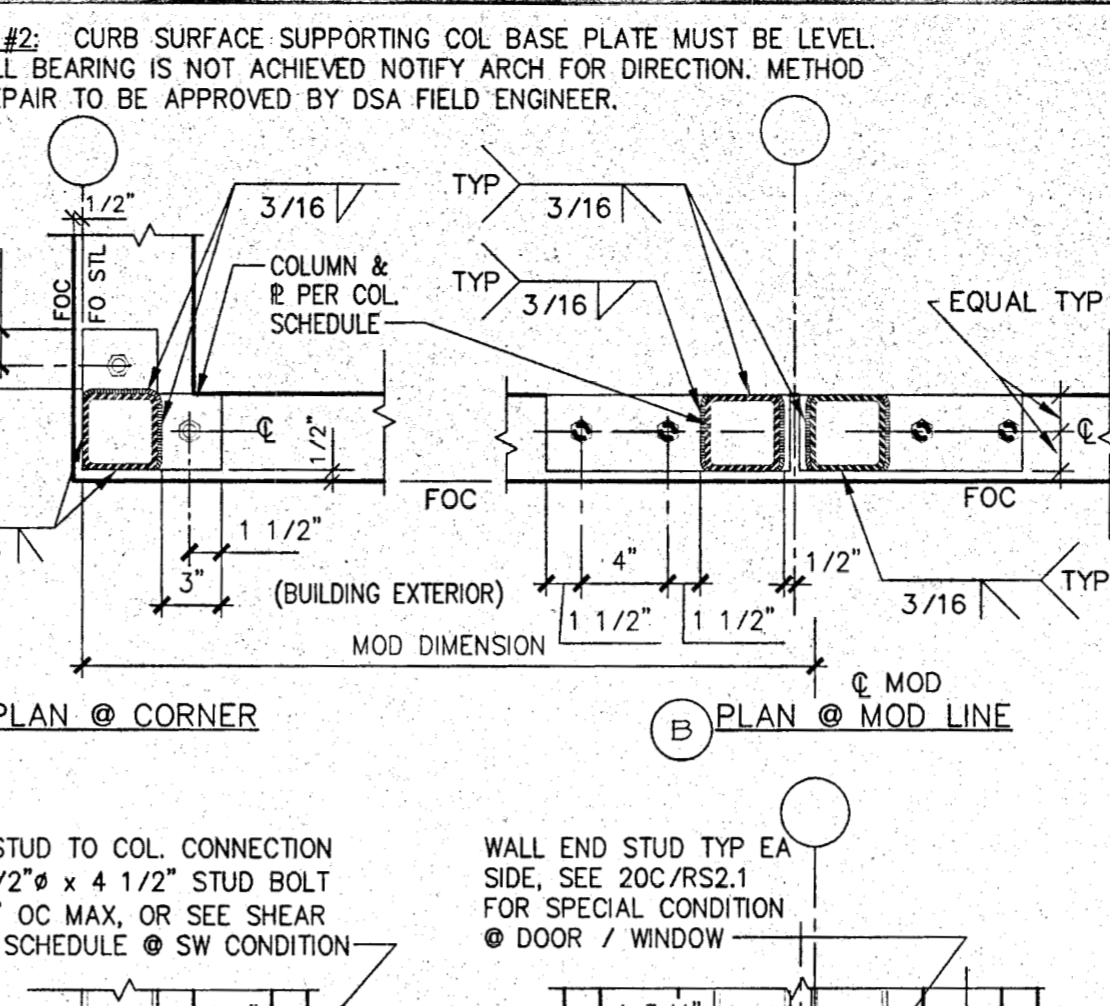
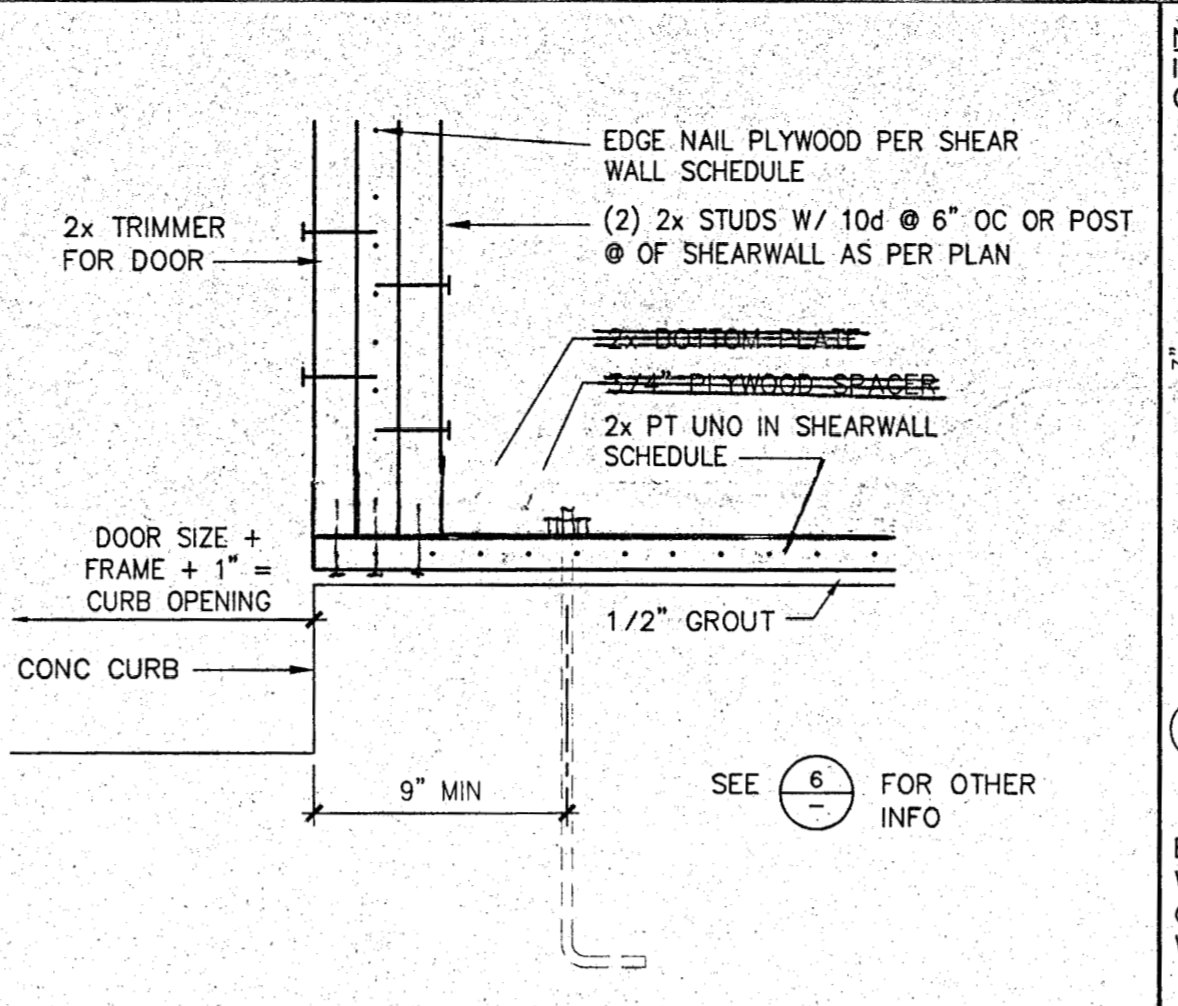
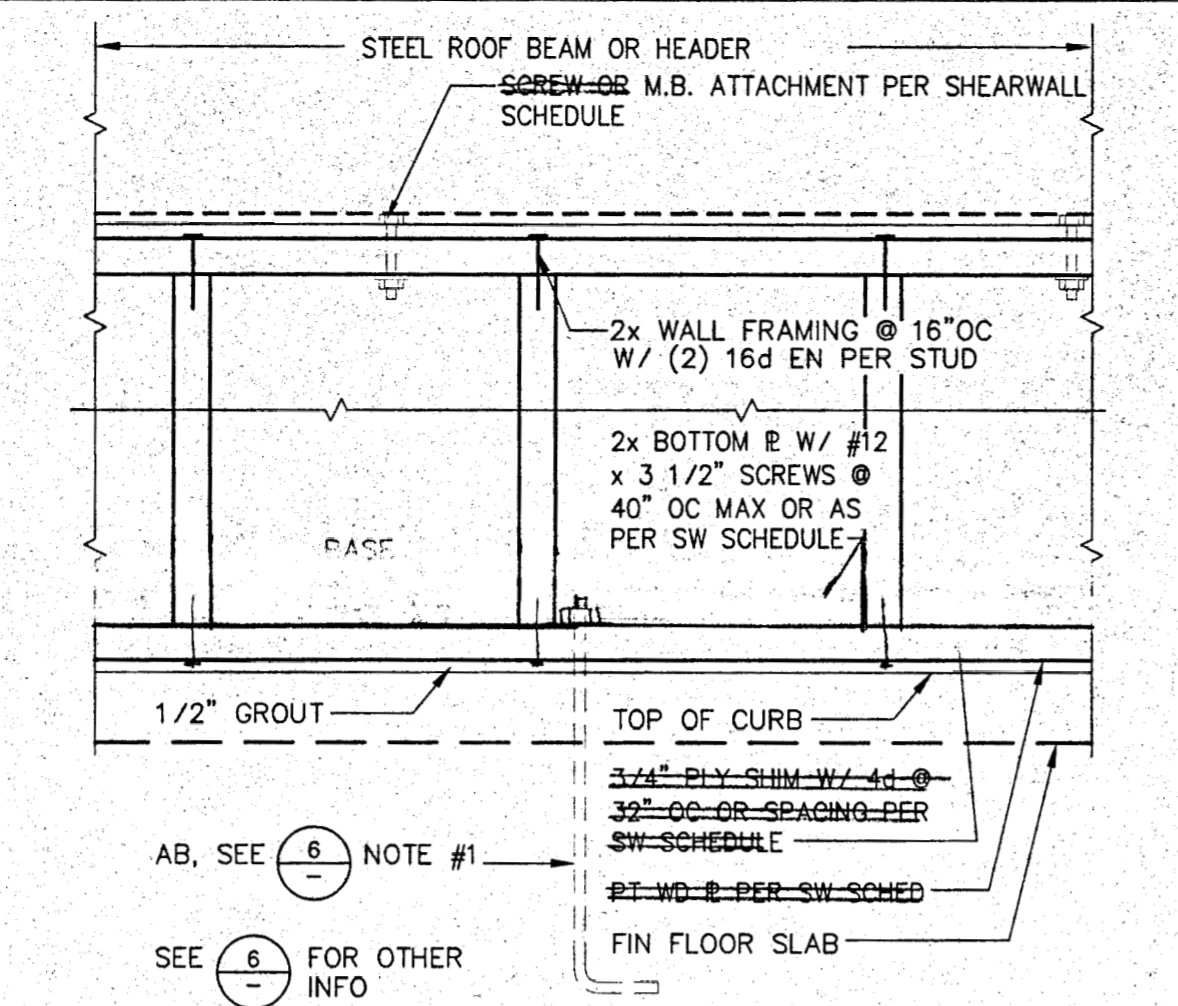
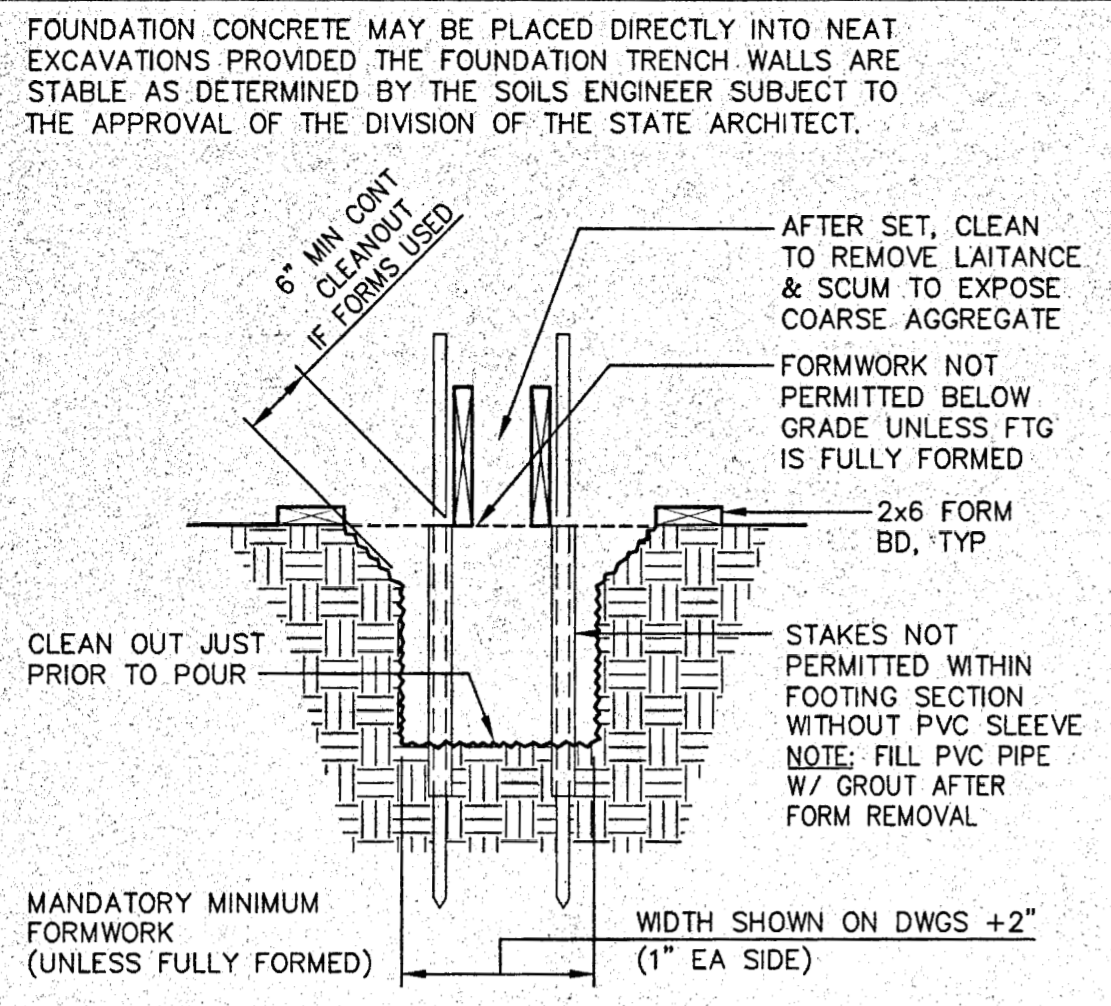
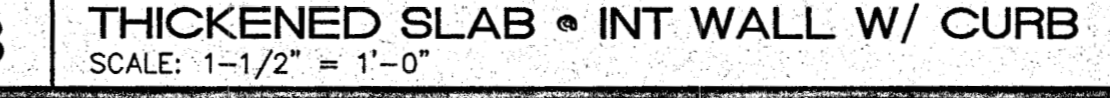
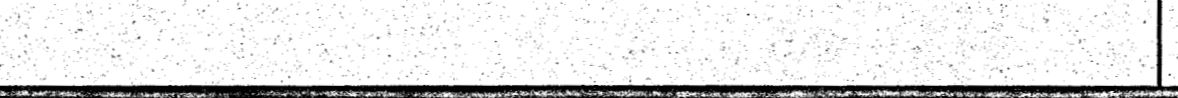
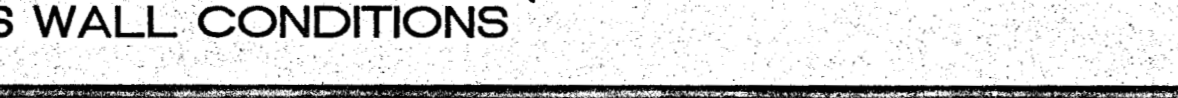
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**NAPA VALLEY VINTNERS
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**FOUNDATION
PLAN**

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JOB: 00-107

RS1.1

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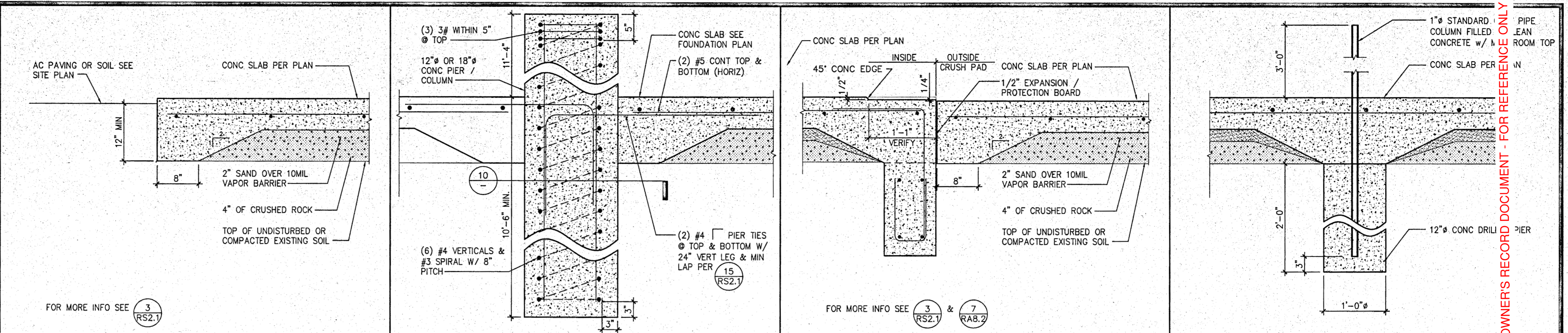
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Napa, California

FOUNDATION DETAILS

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RS2.1

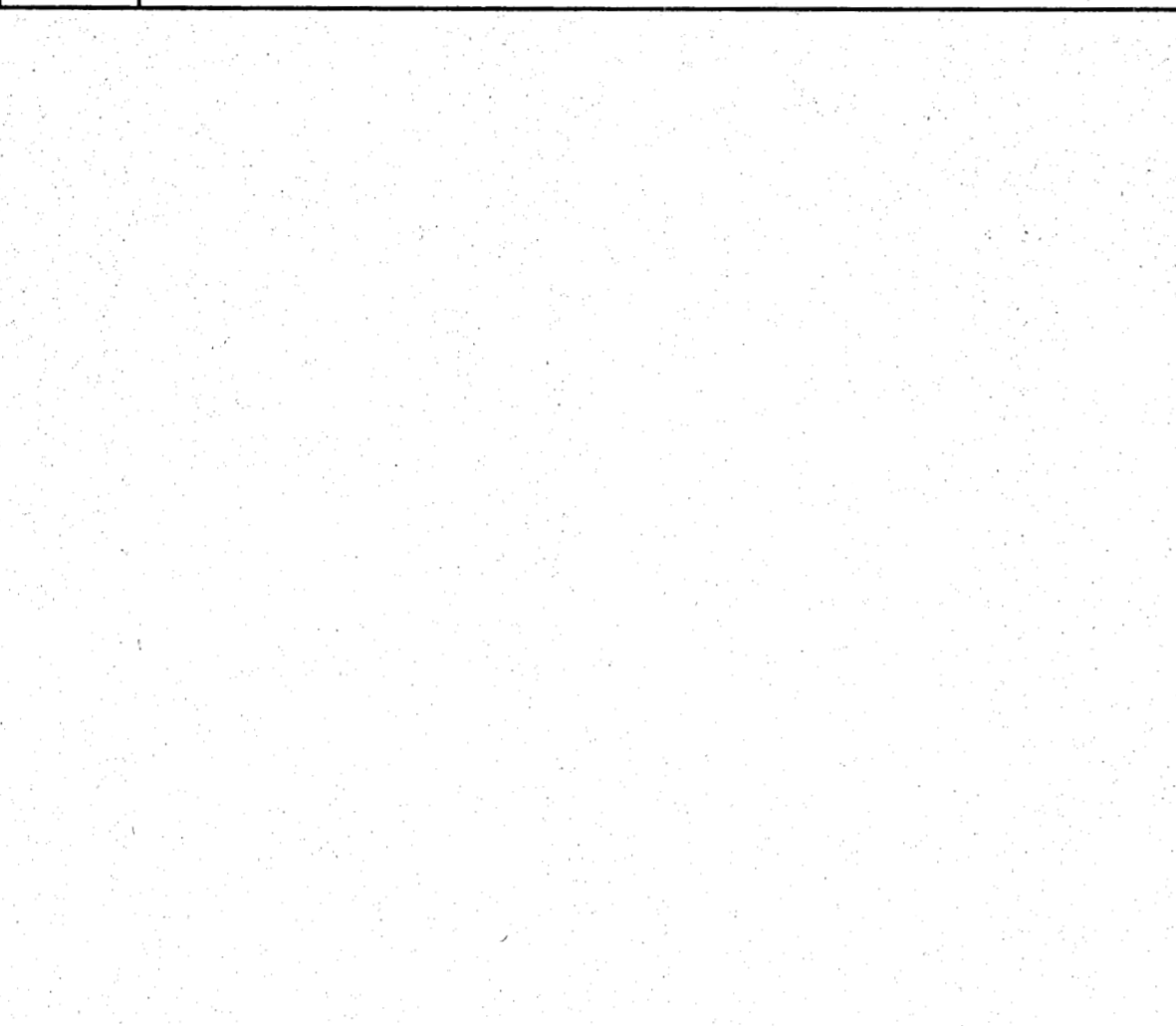


13 EXTERIOR SLAB EDGE
SCALE: 1" = 1'-0"

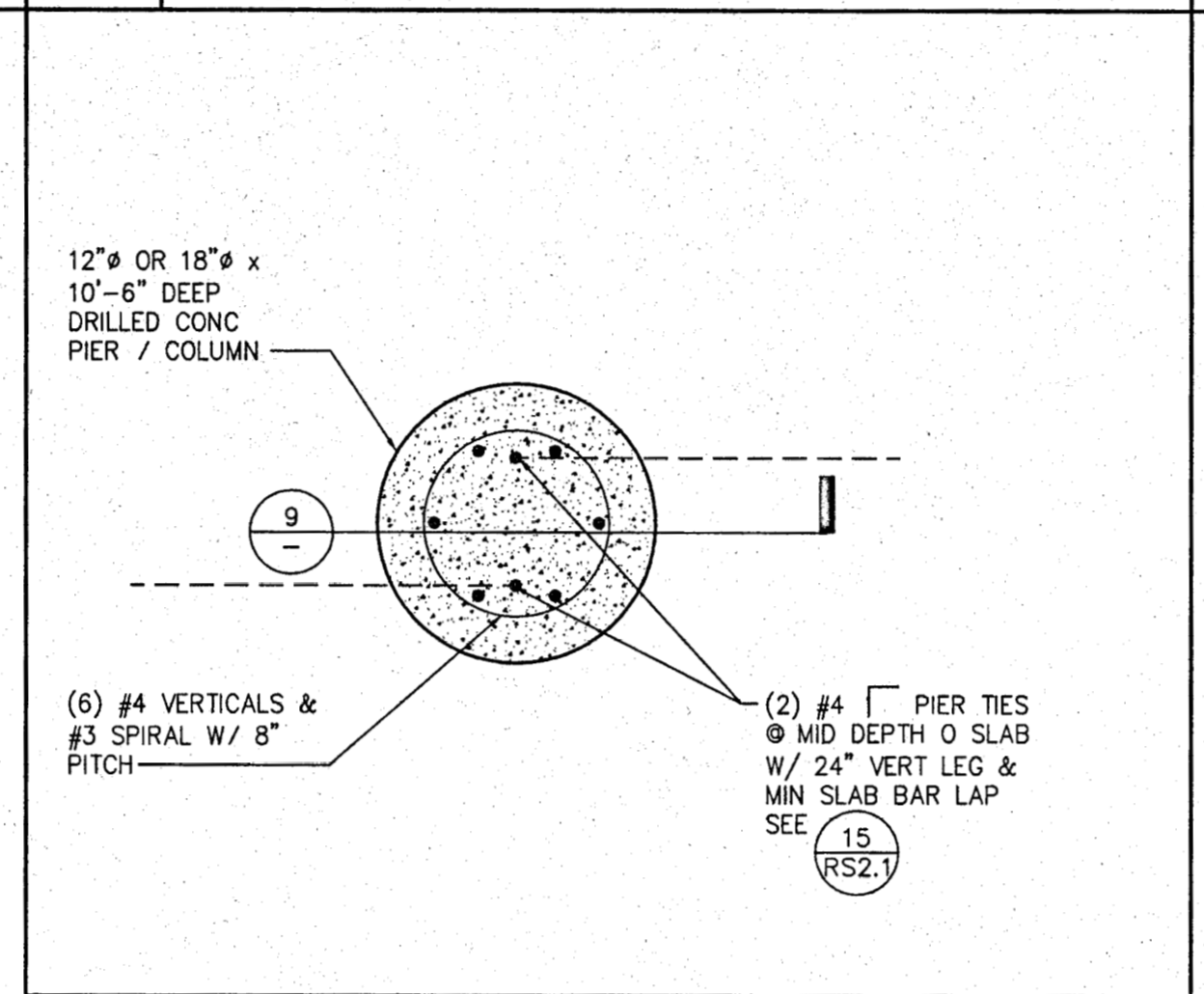
9 DRILLED PIER/COLUMN DETAIL
SCALE: 1" = 1'-0"

5 EXTERIOR SLAB TO INTERIOR SLAB
SCALE: 1" = 1'-0"

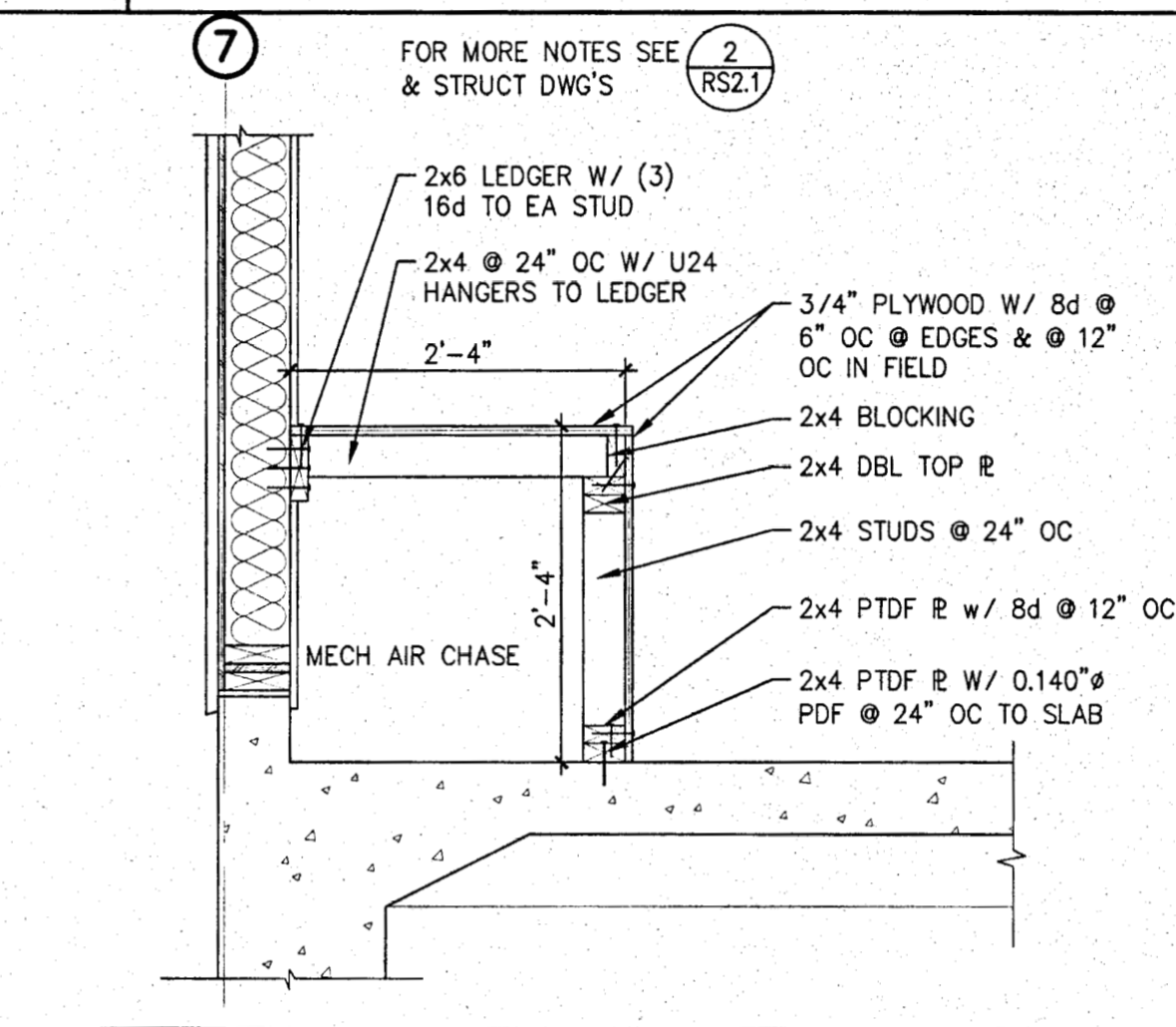
1 BOLLARD
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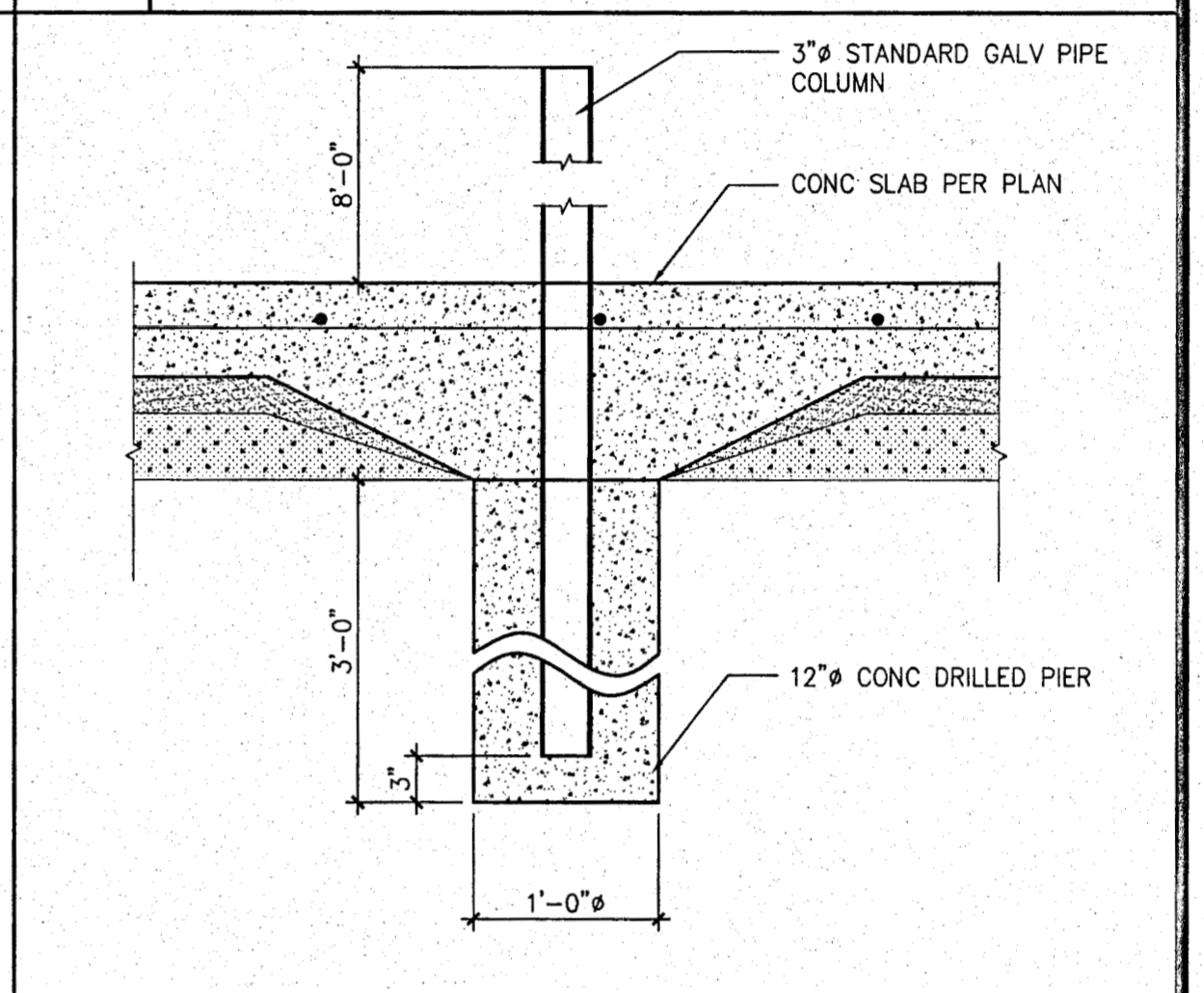
10 PLAN VIEW - DRILLED PIER/COLUMN
SCALE: 1" = 1'-0"



6 MECH CHASE W/ STORAGE OVER
SCALE: 3/4" = 1'-0"

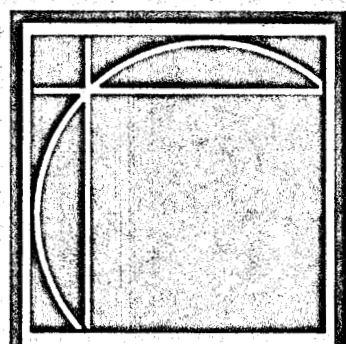


2 CHAIN FENCE FOOTING
SCALE: 1" = 1'-0"



7 MECH CHASE W/ STORAGE OVER
SCALE: 3/4" = 1'-0"

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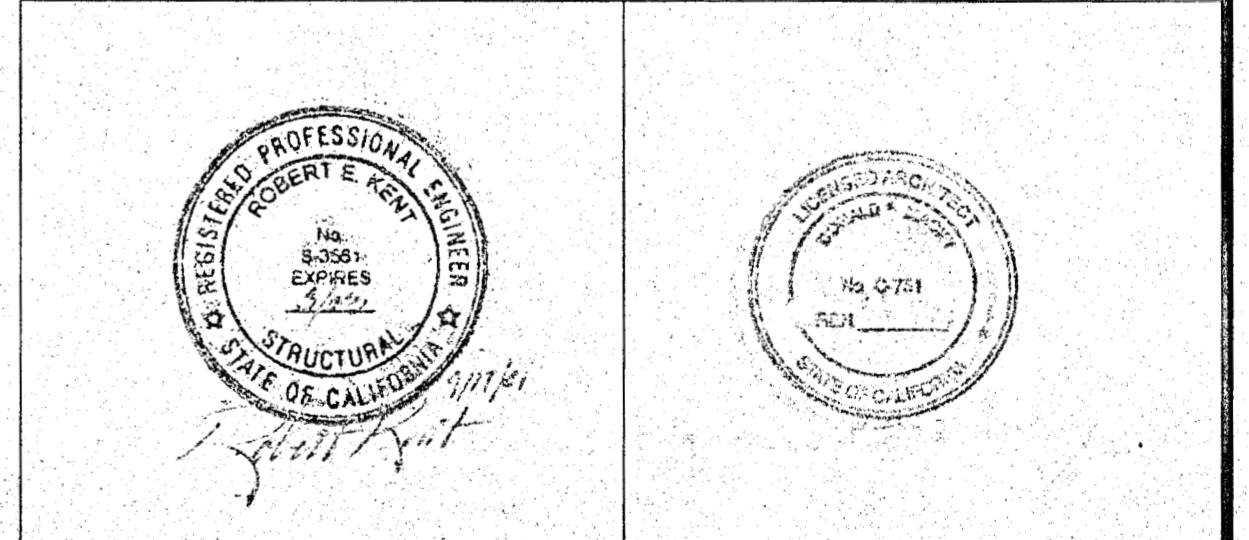


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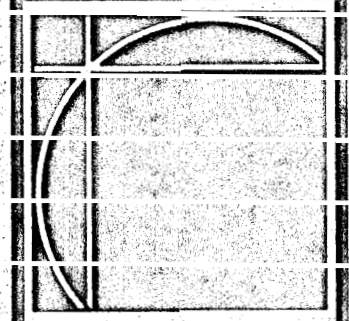


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RS2.2

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NO.	DESCRIPTION

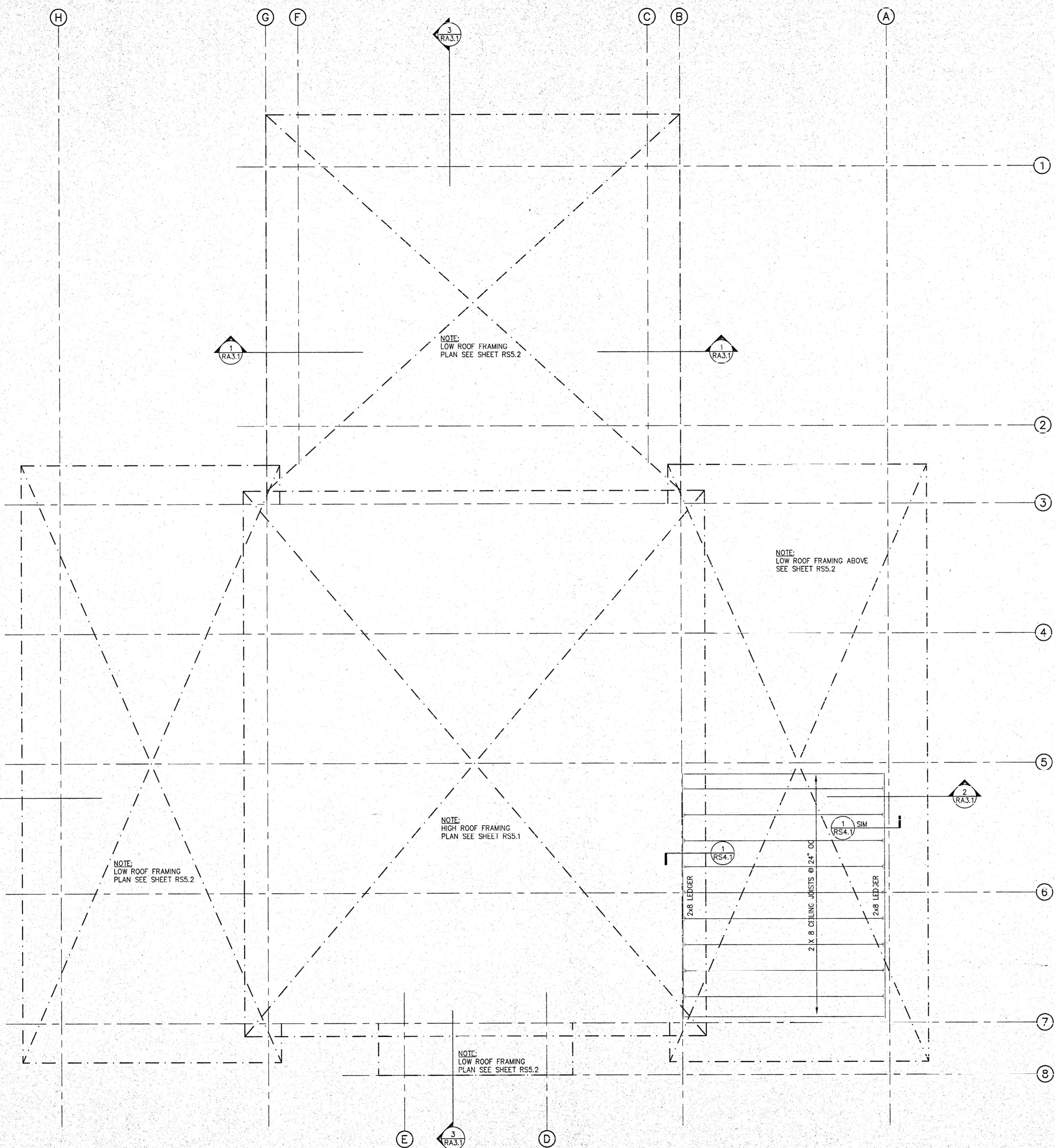
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CERTIF. CAT. NO. C 751

**NAPA VALLEY VINTNERS
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Napa Valley College
Napa, California

**CEILING
FRAMING
PLAN**

DATE: JULY 26, 2001
SCALE: NOTED
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JOB: 00-107

RS3.1



CEILING FRAMING PLAN

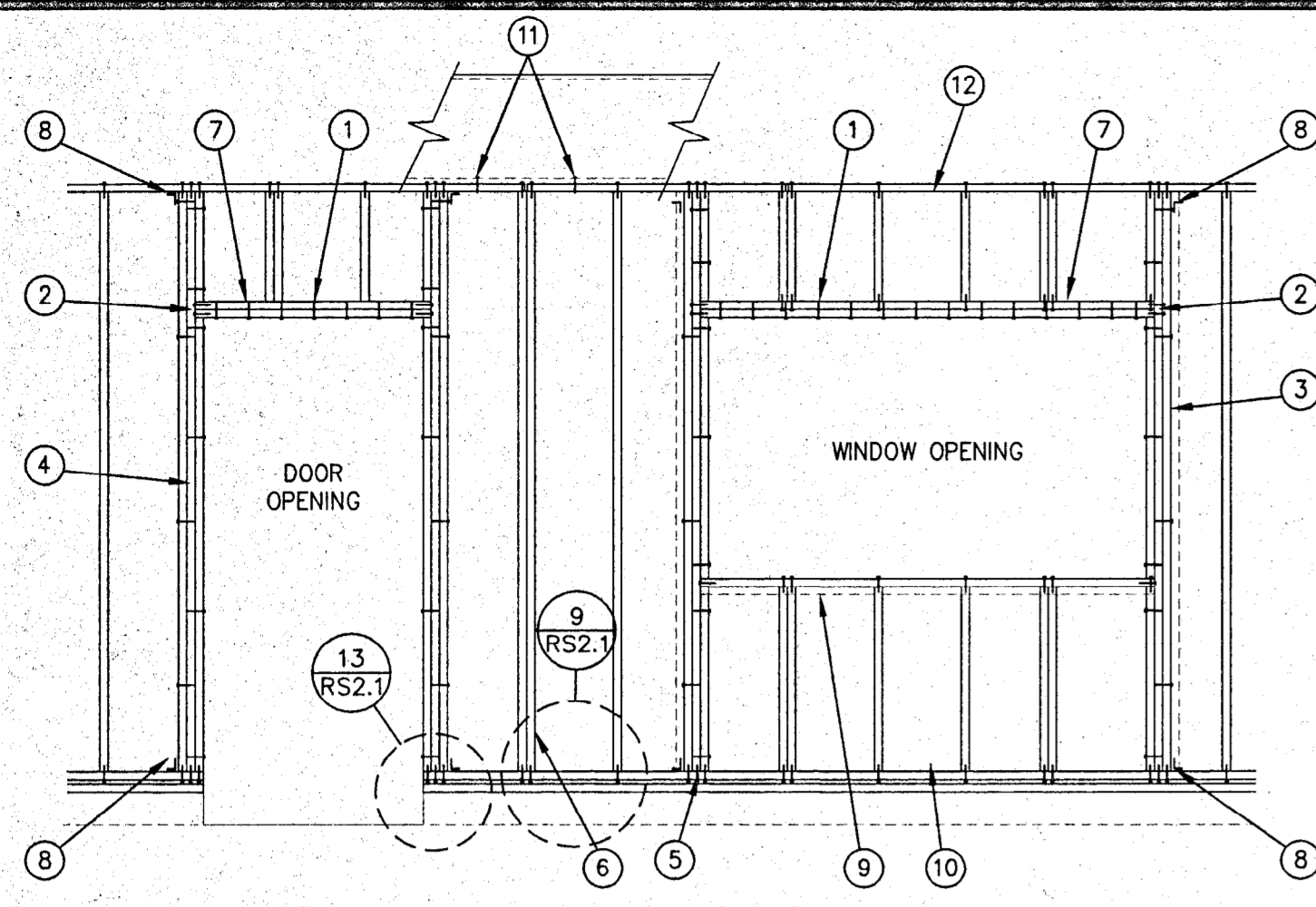
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SCALE: 1/4" = 1'-0"



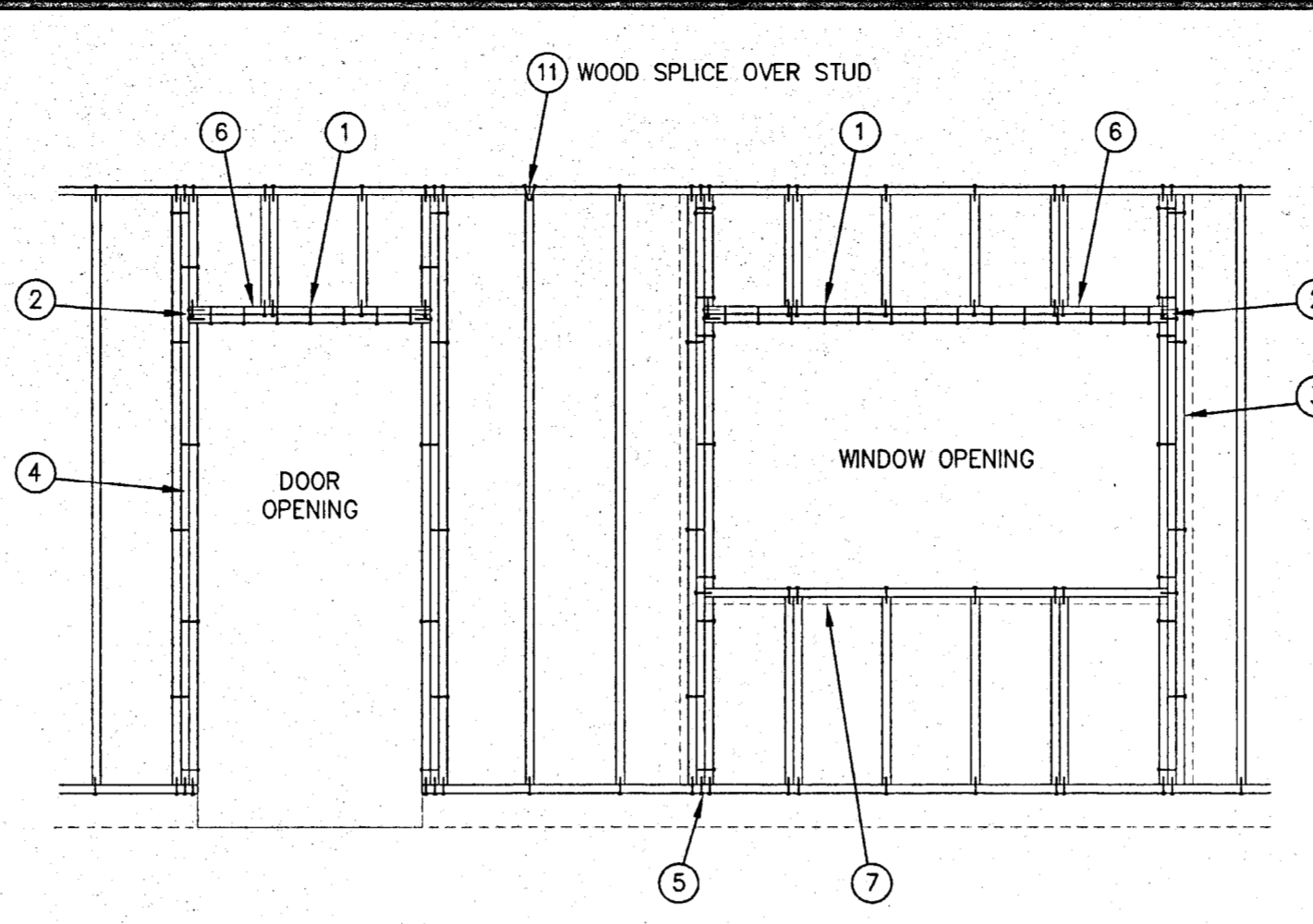
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APP # 01-103886
FILE # 28-C1

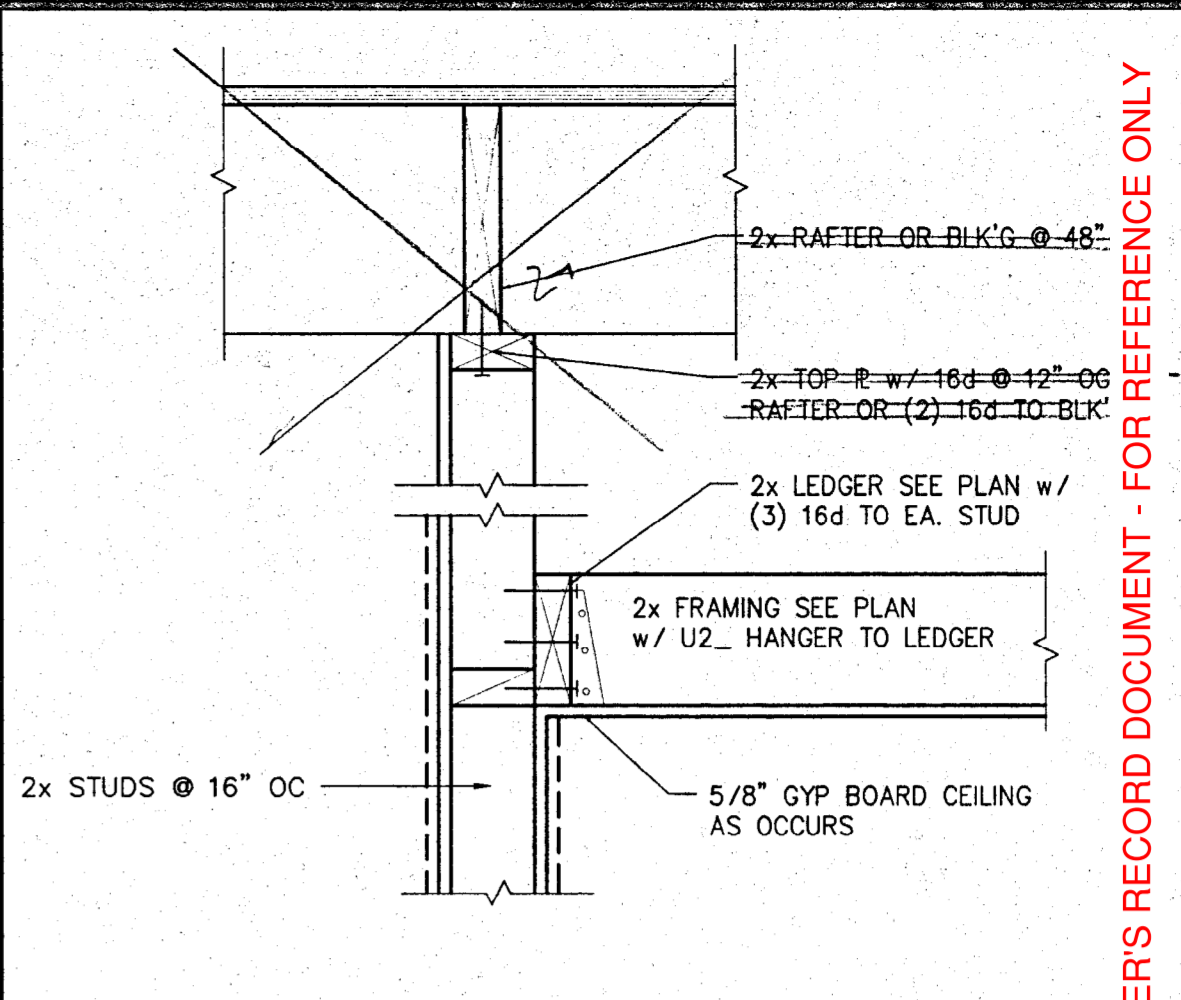
AC FLS SS
DATE SEP 20 2001



- NOTES:
MACHINE NAILING PERMITTED FOR WALLS CONSTRUCTED IN THE HORIZONTAL POSITION & HAVING APPROVAL FROM THE ARCHITECT & THE OSHPD REPRESENTATIVE BY DEMONSTRATING PERFORMANCE FOR THIS JOB.
ALL SHINERS TO BE REMOVED & REPLACED BY HAND NAILING.
- 1 10d @ 12" OC
 - 2 (2) 10d EA END EA 2x4 @ HEADER & SILL
 - 3 2 KINGS & 1 CRIPPLE @ WINDOWS, INTER-NAIL w/ 10d @ 16" OC STAGGERED, 3 KINGS @ ROs OVER 6'-0"
 - 4 2 KINGS & 1 CRIPPLE @ DOORS, INTER-NAIL w/ 10d @ 16" OC STAGGERED, 3 KINGS @ ROs OVER 6'-0"
 - 5 (2) 10d PER STUD, TYP
 - 6 DBL 2x MIN STUD @ PLYWOOD JOINTS, TYP
 - 7 DBL 2x HEADER, ONE 4x HEADER @ ROs OVER 6'-0" WIDE, OPENING NOT TO EXCEED 8'-0"
 - 8 A34s TYP TOP & BOT @ BOTH SIDES OF ROs OVER 6'-0"
 - 9 DBL SILL @ ROs OVER 6'-0"
 - 10 DBL BOT PLATE @ EIFS EXT FINISH
 - 11 ONE 1/2" @ MB THRU BOTTOM FLANGE OF STL ROOF BEAM INTO TOP PLATE @ 9" EA SIDE OF TOP PLATE JOINT, TYP SEE 2
 - 12 ATTACH TOP R w/ 1/2" @ MB @ 20" OC OR PER SHEARWALL SCHEDULE TO ROOF BEAM; MAX GAP SHALL BE PER SHEARWALL SCHEDULE



- NOTES:
MACHINE NAILING PERMITTED FOR WALLS CONSTRUCTED IN THE HORIZONTAL POSITION & HAVING APPROVAL FROM THE ARCHITECT & THE DSA REPRESENTATIVE BY DEMONSTRATING PERFORMANCE FOR THIS JOB.
ALL SHINERS TO BE REMOVED & REPLACED BY HAND NAILING.
- 1 10d @ 12" OC
 - 2 (2) 10d EA END EA 2x4 @ HEADER & SILL
 - 3 2 KINGS & 1 CRIPPLE @ WINDOWS, INTER-NAIL w/ 10d @ 16" OC STAGGERED, 3 KINGS @ ROs OVER 6'-0"
 - 4 2 KINGS & 1 CRIPPLE @ DOORS, INTER-NAIL w/ 10d @ 16" OC STAGGERED, 3 KINGS @ ROs OVER 6'-0"
 - 5 (2) 10d PER STUD, TYP
 - 6 DBL 2x HEADER, ONE 4x HEADER @ ROs OVER 6'-0" WIDE, OPENING NOT TO EXCEED 8'-0"
 - 7 DBL SILL @ ROs OVER 6'-0"
 - 11 WOOD SPLICE OVER STUD

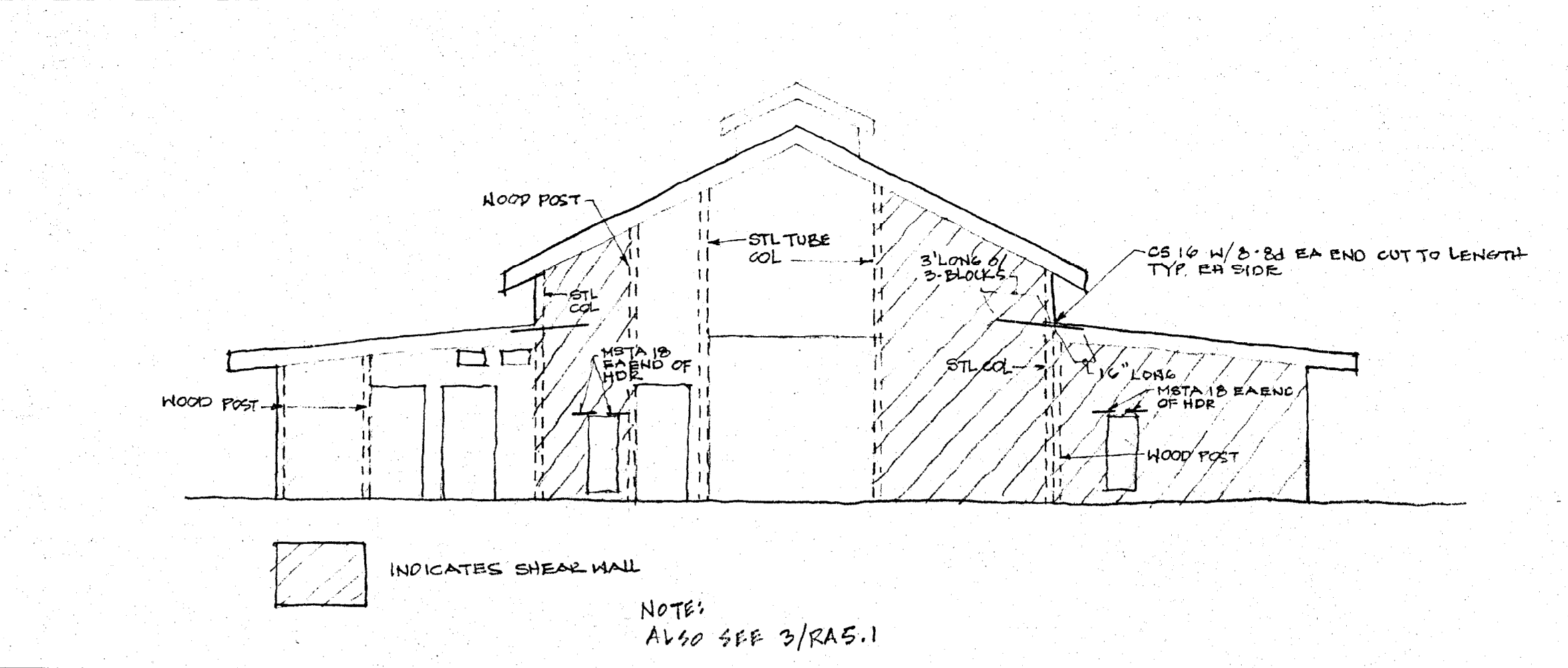
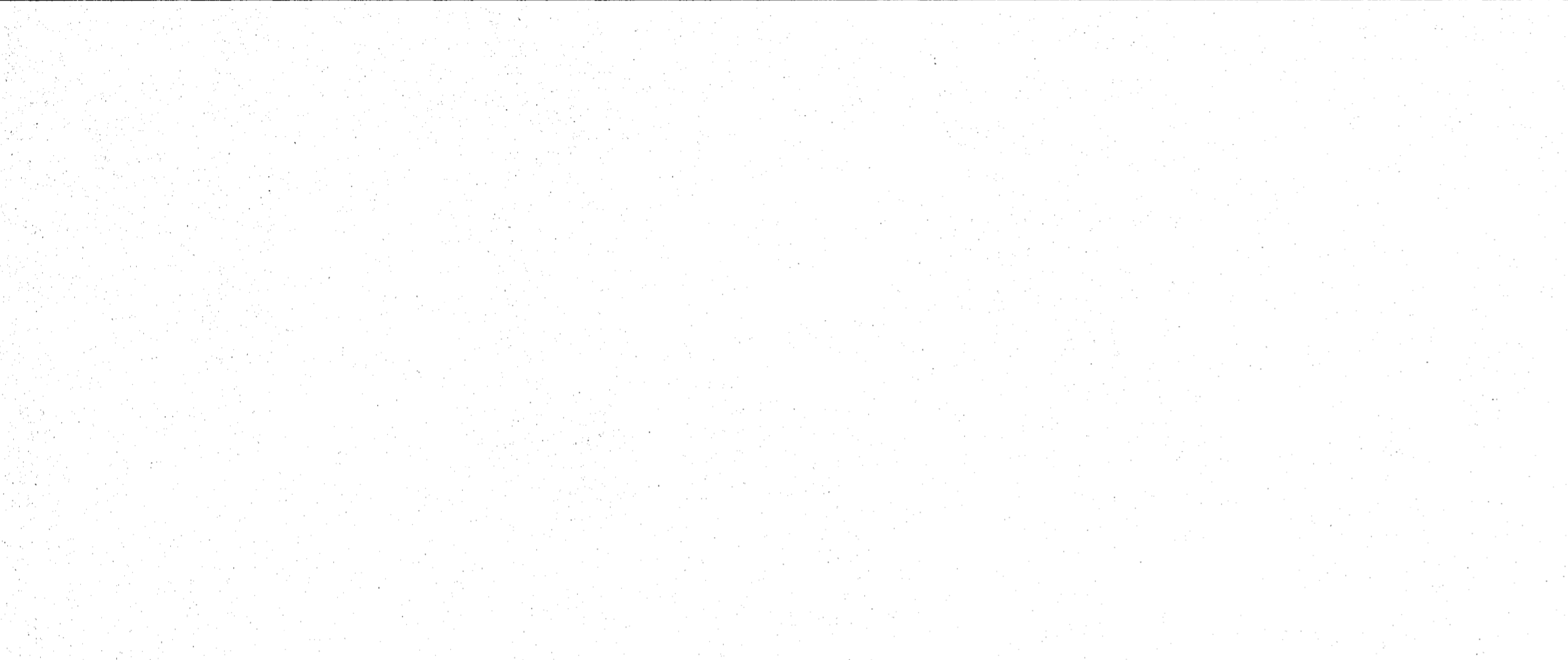


OWNER'S RECORD DOCUMENT - FOR REFERENCE ONLY

17 EXTERIOR WALL FRAMING • SLAB ON GRADE CONSTRUCTION
SCALE: 3/8"=1'-0"

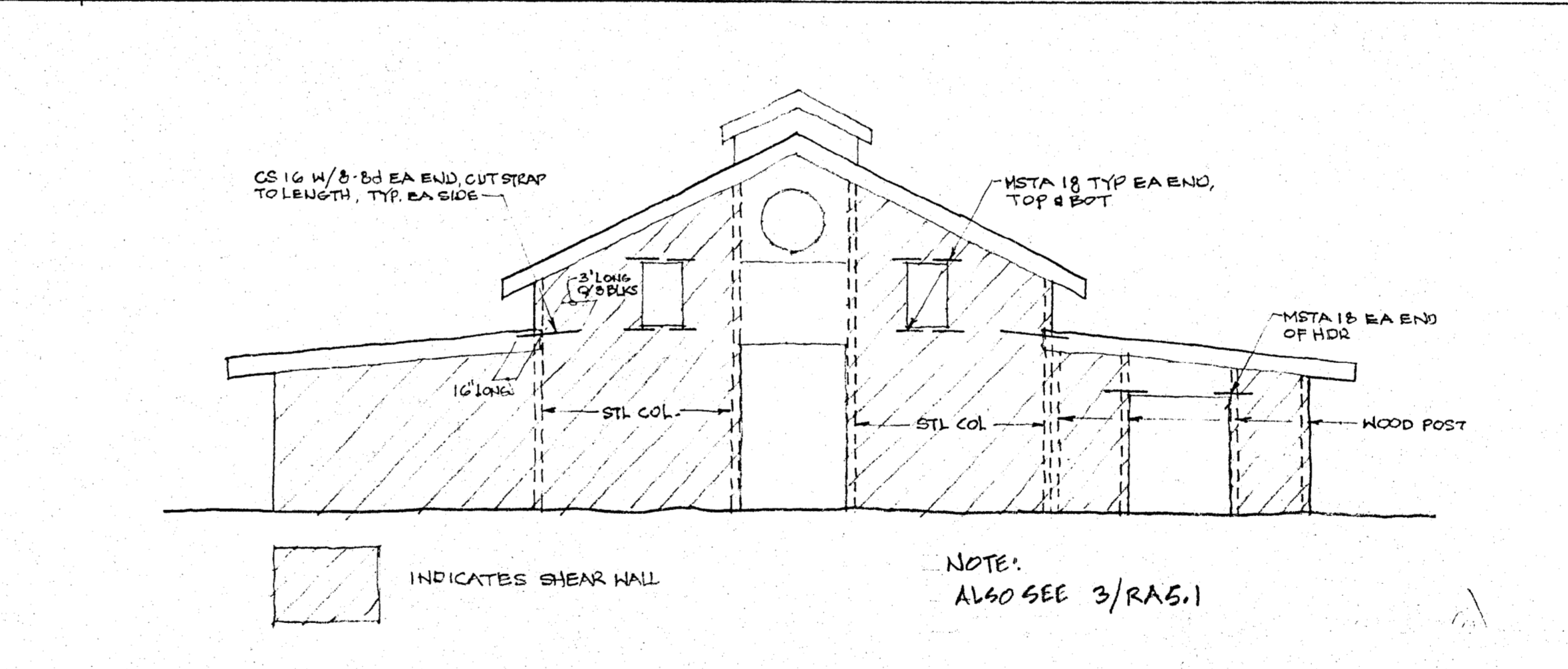
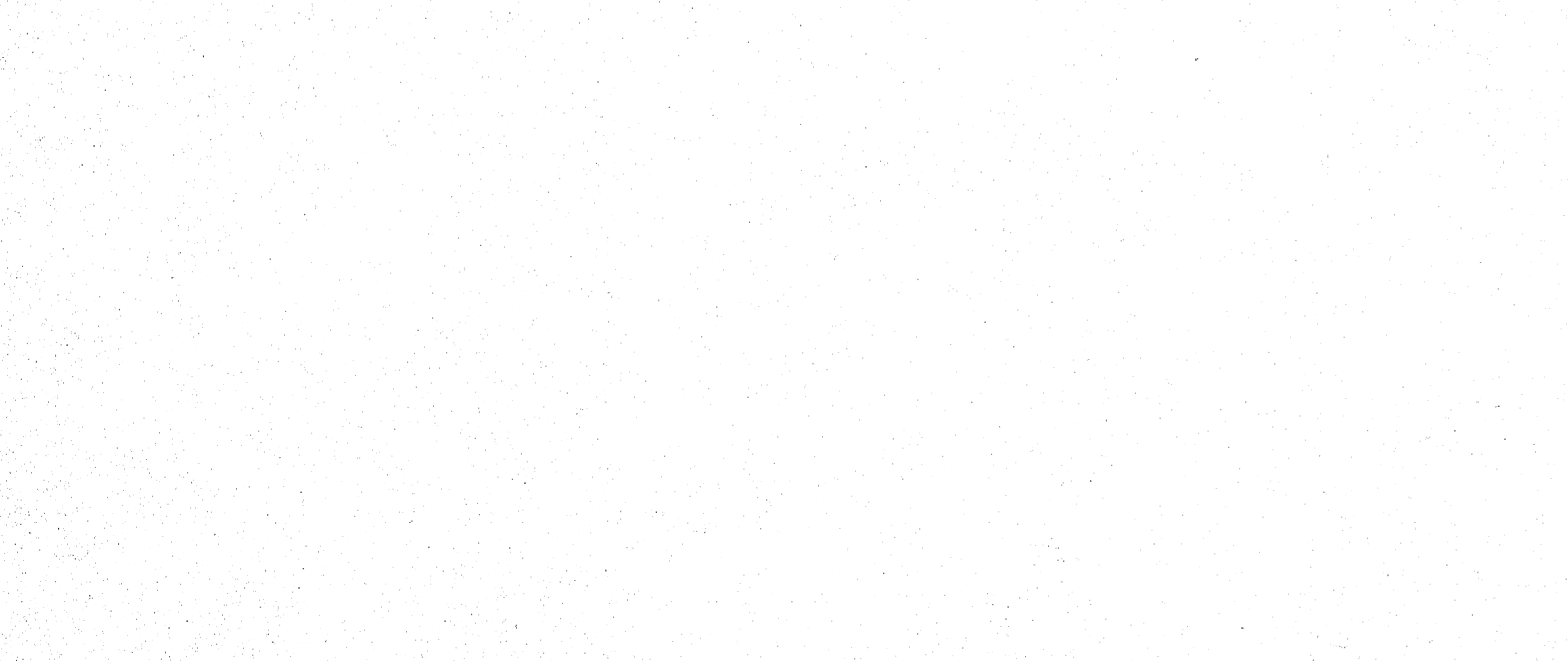
9 INTERIOR WALL FRAMING
SCALE: 3/8"=1'-0"

1 CEILING FRAMING DETAIL
SCALE: 1-1/2" = 1'-0"



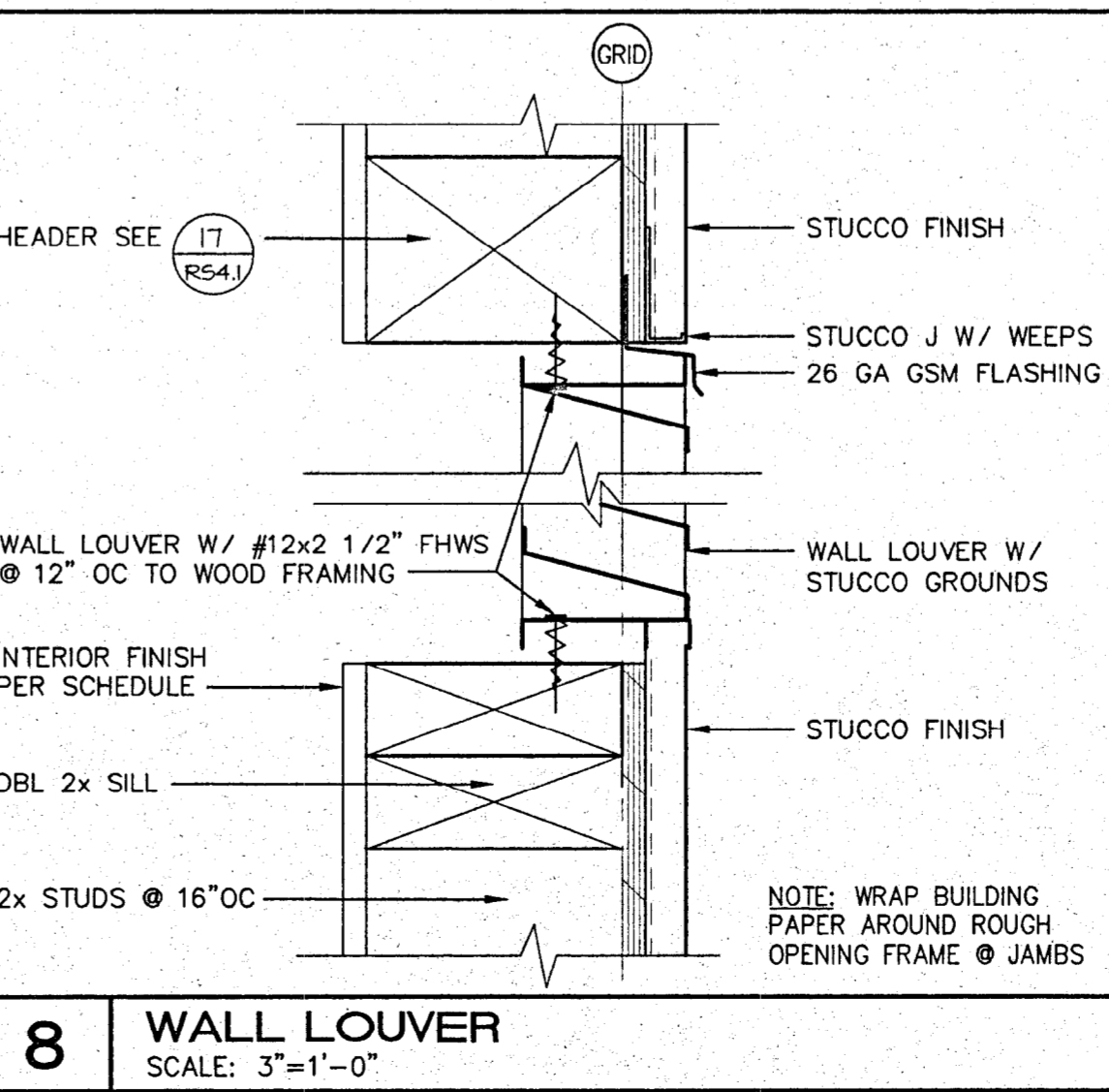
10 EAST ELEVATION
SCALE: NTS.

2 SW SPLICE DETAIL • FRAME ATTACH
SCALE: 1-1/2" = 1'-0"



11 WEST ELEVATION

3 WALL FAN
SCALE: 1-1/2" = 1'-0"



8 WALL LOUVER
SCALE: 3"=1'-0"

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CERTIFICATE NO. C751

**NAPA VALLEY VINTNERS
TEACHING WINERY**
Napa Valley College
Napa, California

**WALL
FRAMING
DETAILS**

DATE: JULY 26, 2001
SCALE: NOTED
DRAWN BY: PLP
JOB: 00-107

RS4.1

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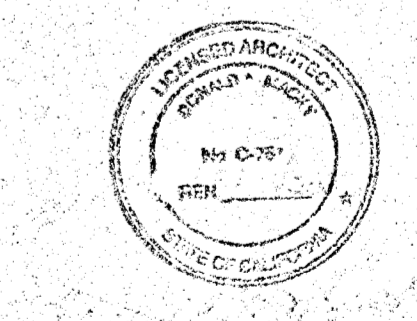
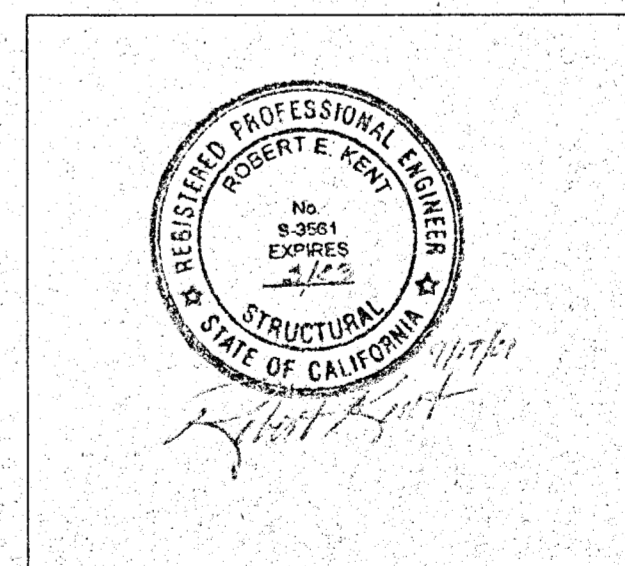
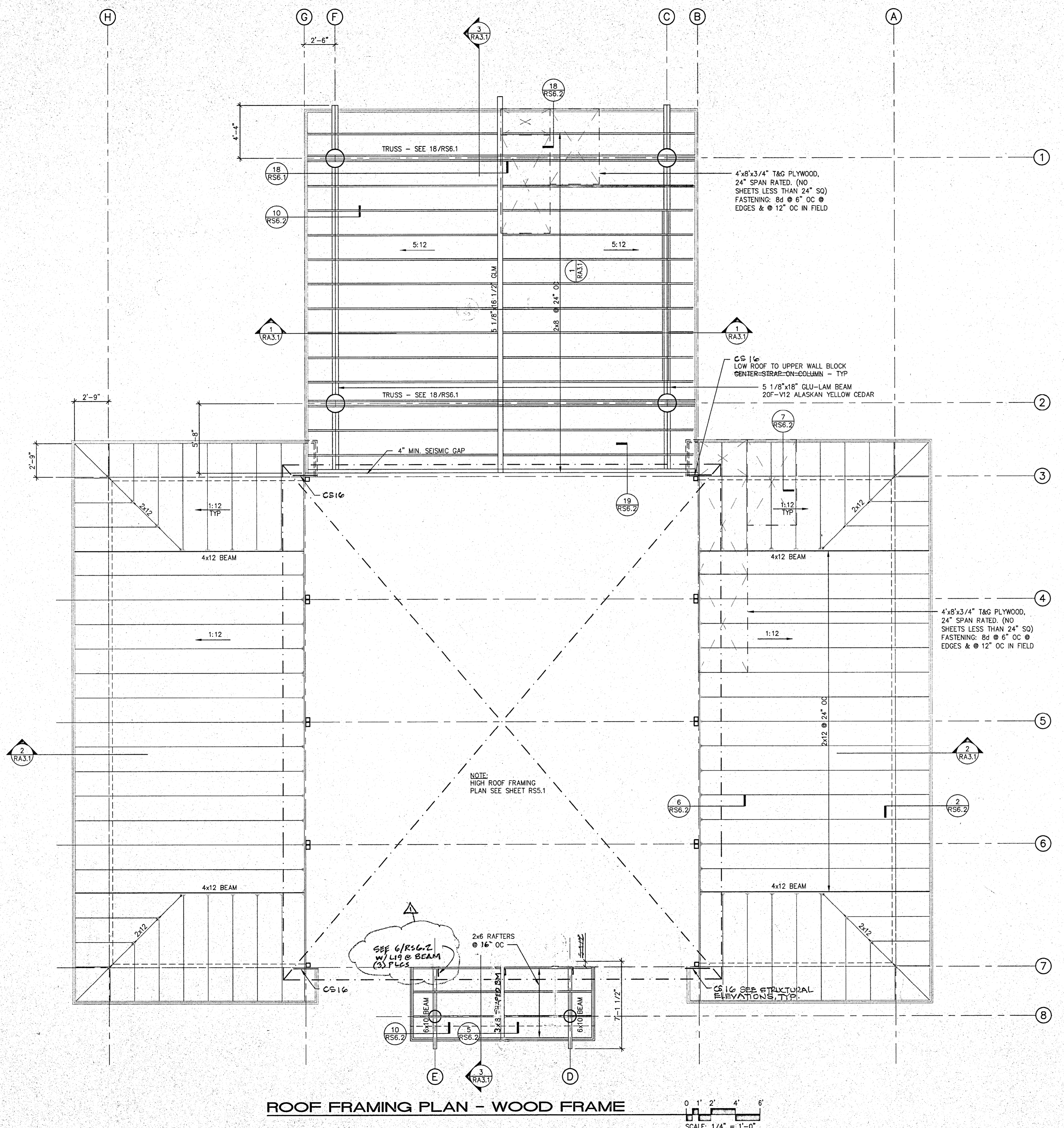
DONALD S. MACKY, A. I. A.
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**NAPA VALLEY VINTNERS
TEACHING WINERY**
Napa Valley College
Napa, California

**WOOD
ROOF FRAMING
PLAN**

DATE: JULY 26, 2001
SCALE: NOTED
DRAWN BY: PLP
JOB: 00-107

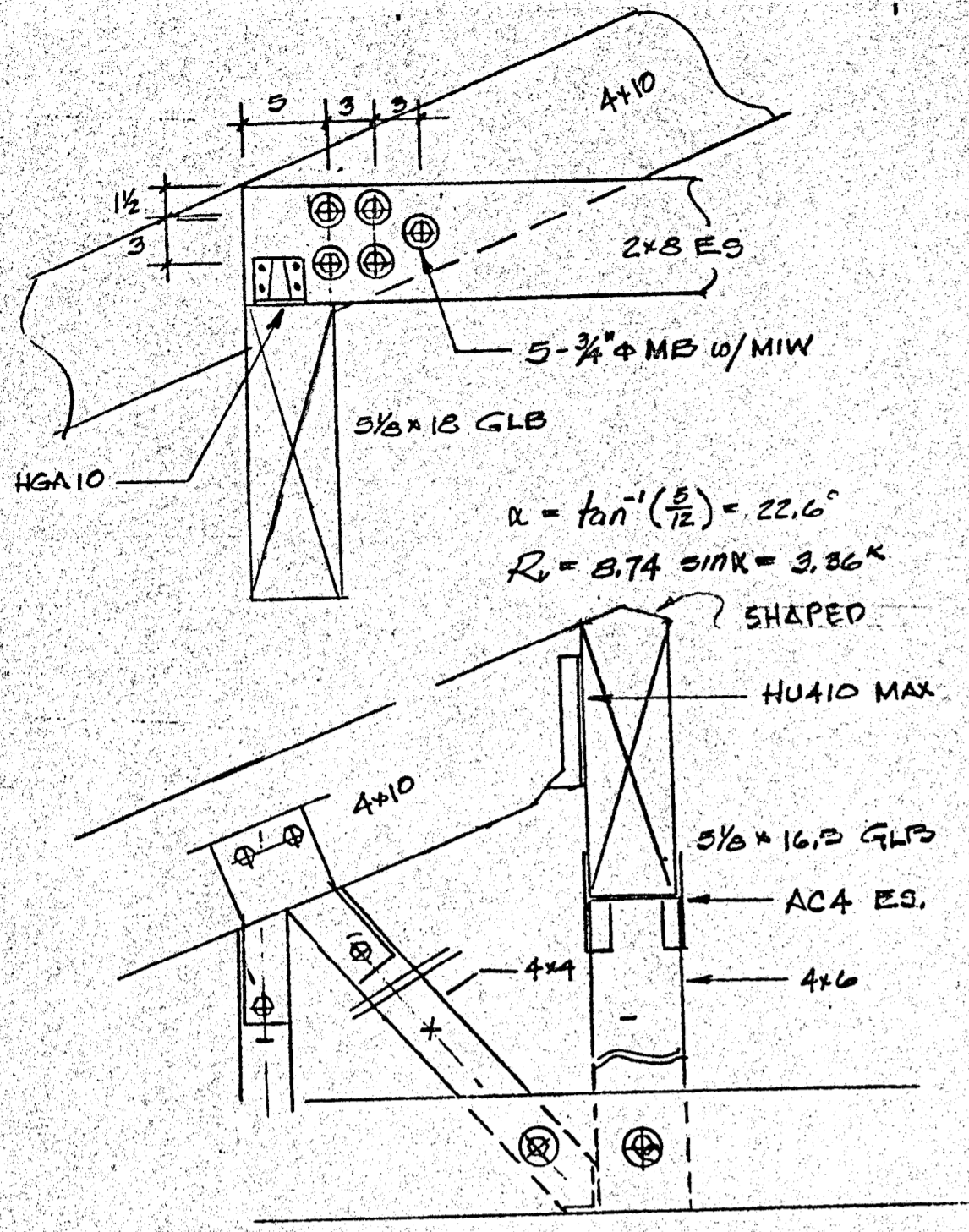
RS5.2



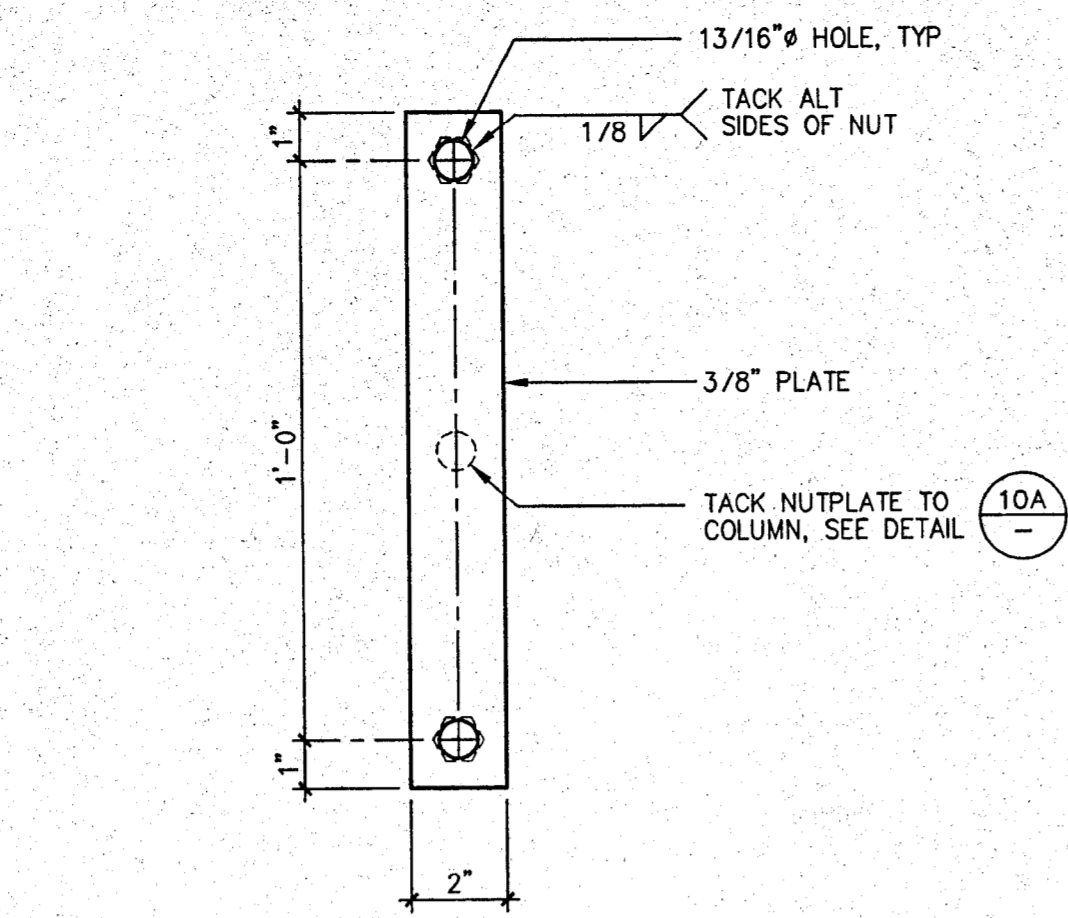
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

APP # 01-103886
FILE # 28-C1

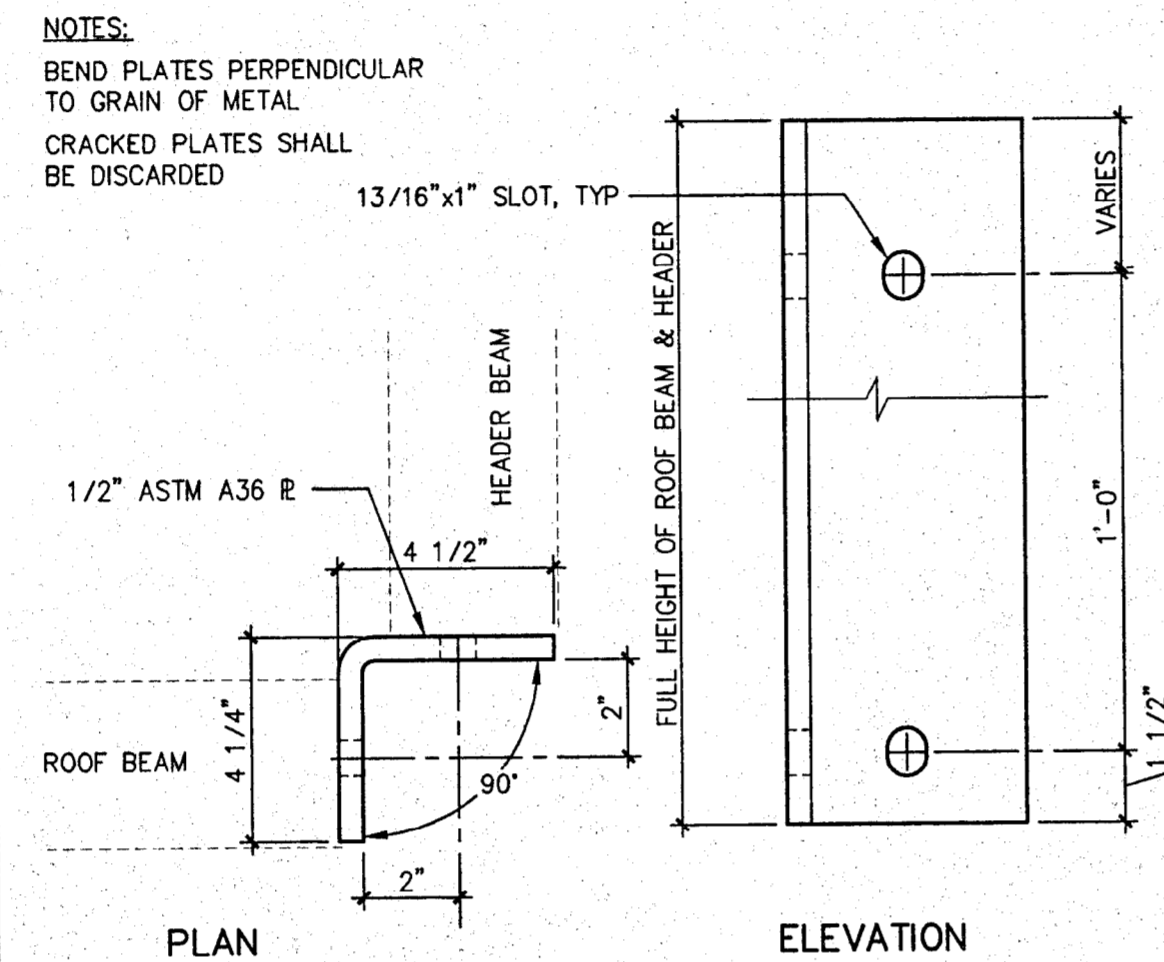
AC _____ FLS _____ SS *CKC*
DATE SEP 20 2001



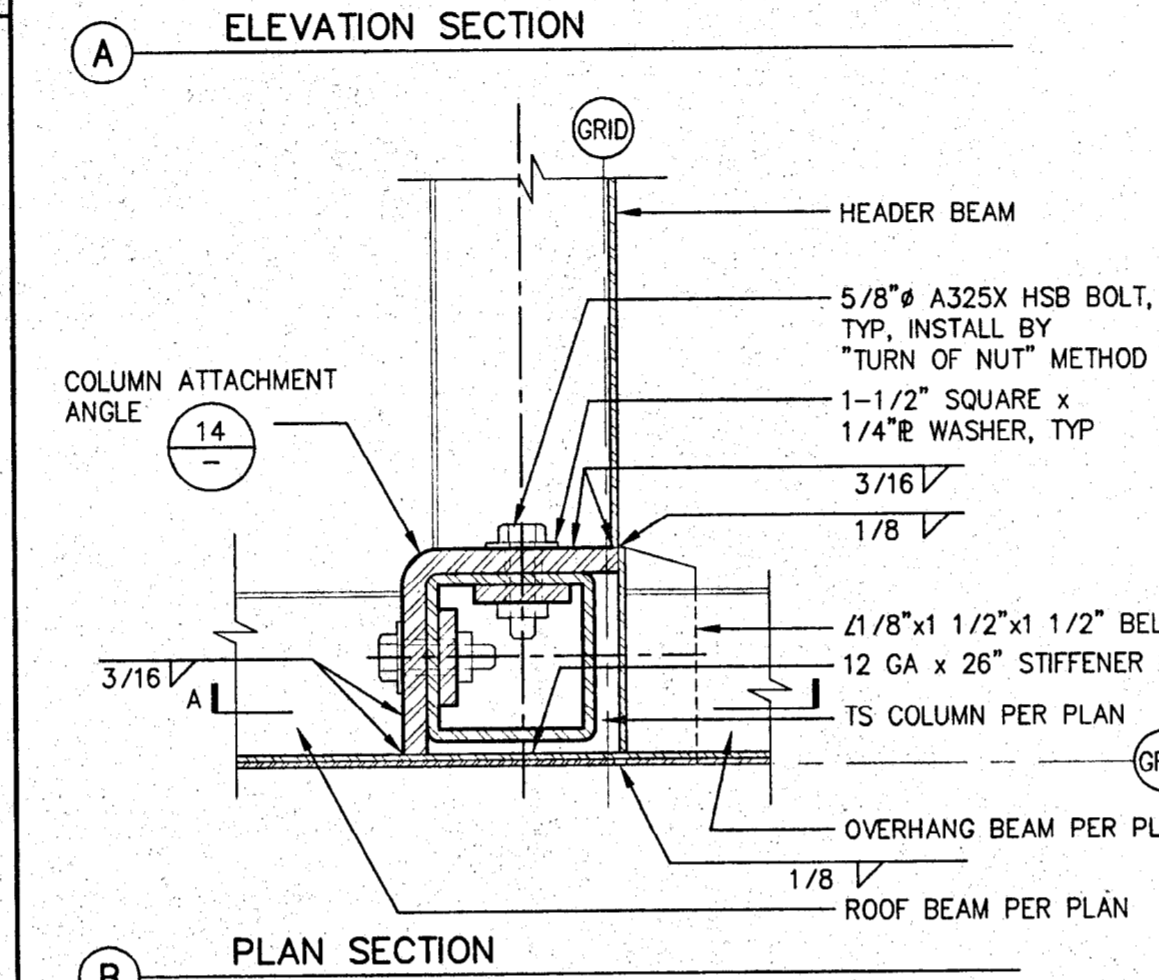
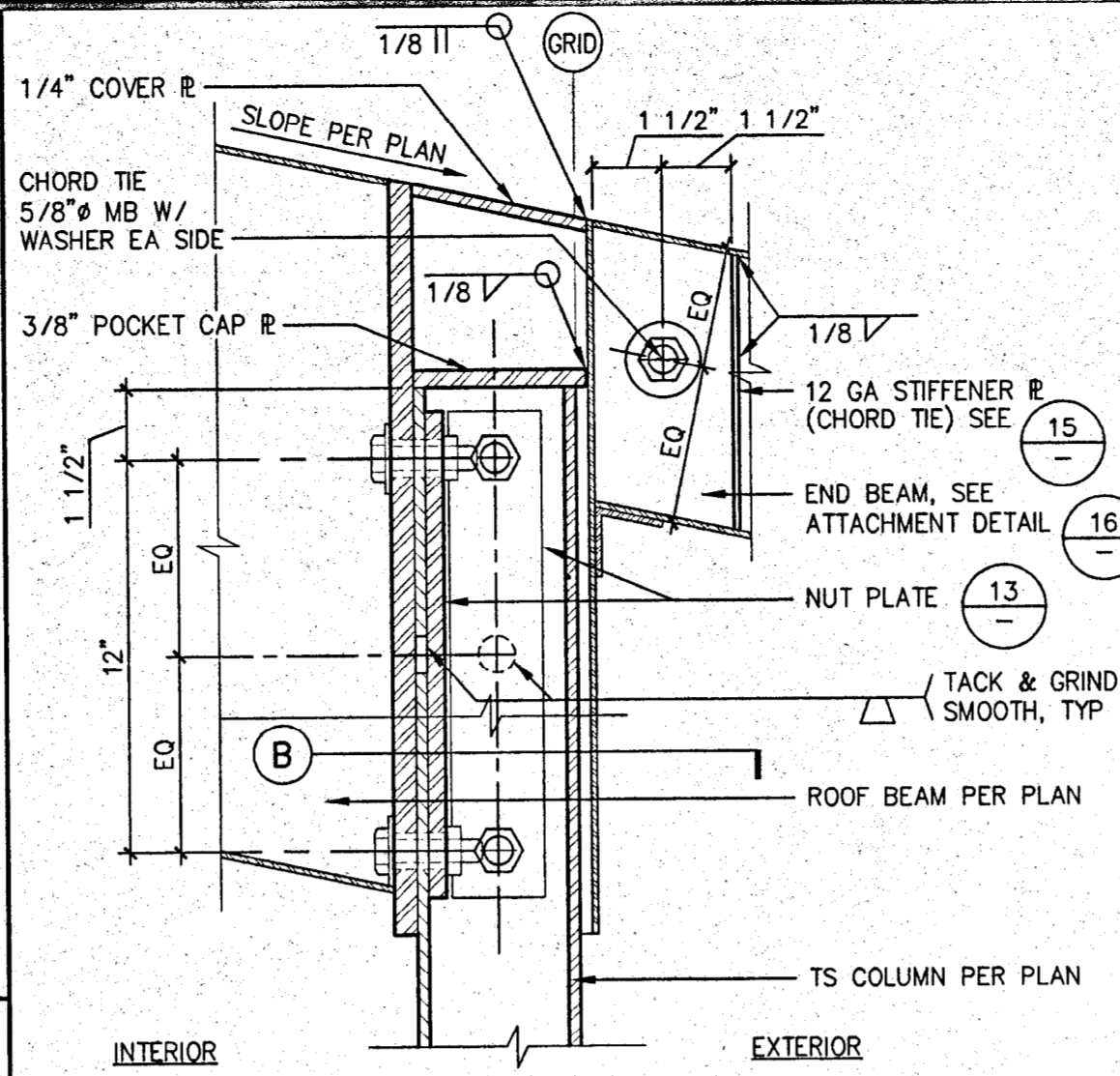
18 TRUSS DETAILS
SCALE: NONE



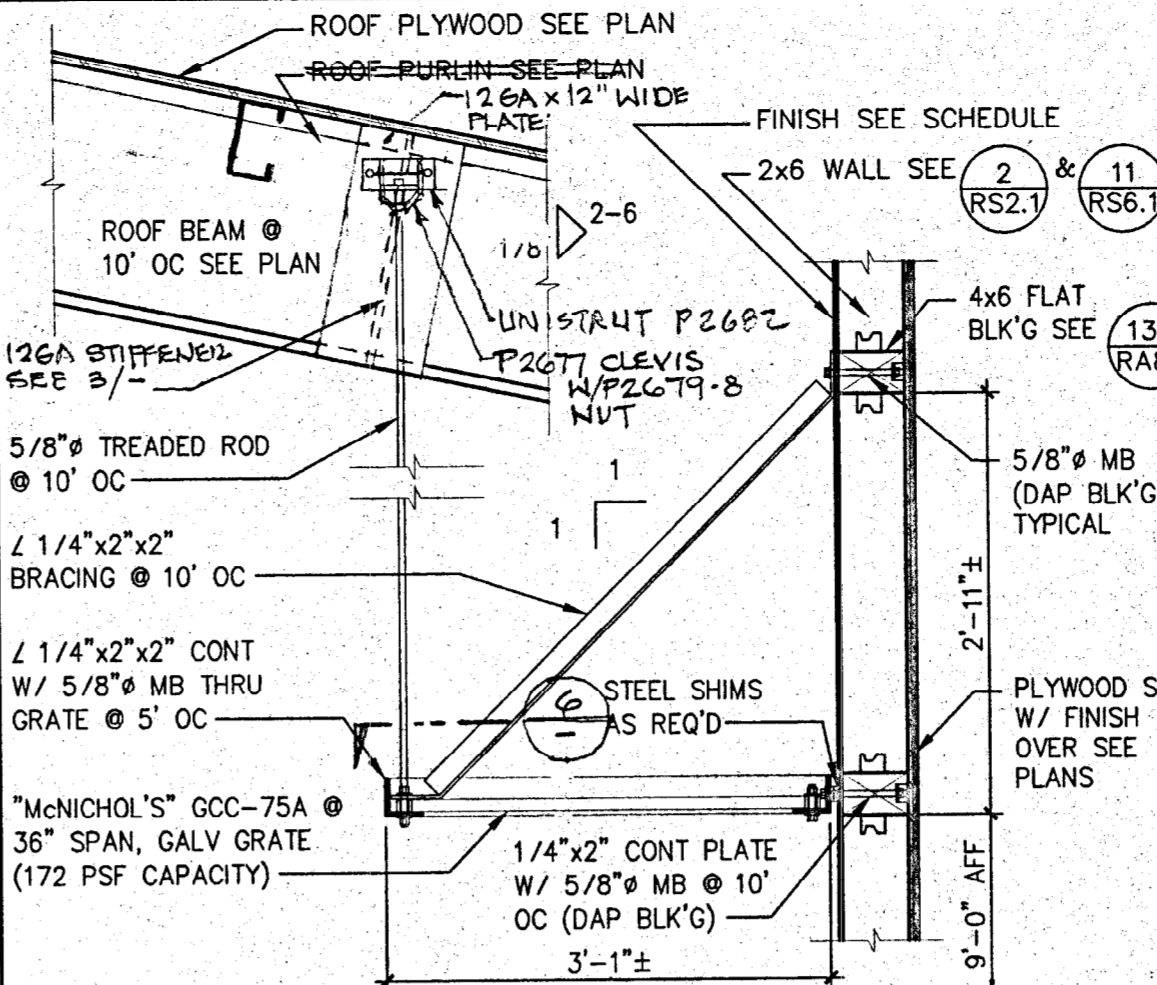
13 COLUMN TOP NUT PLATE
SCALE: 3/4"=1'-0"



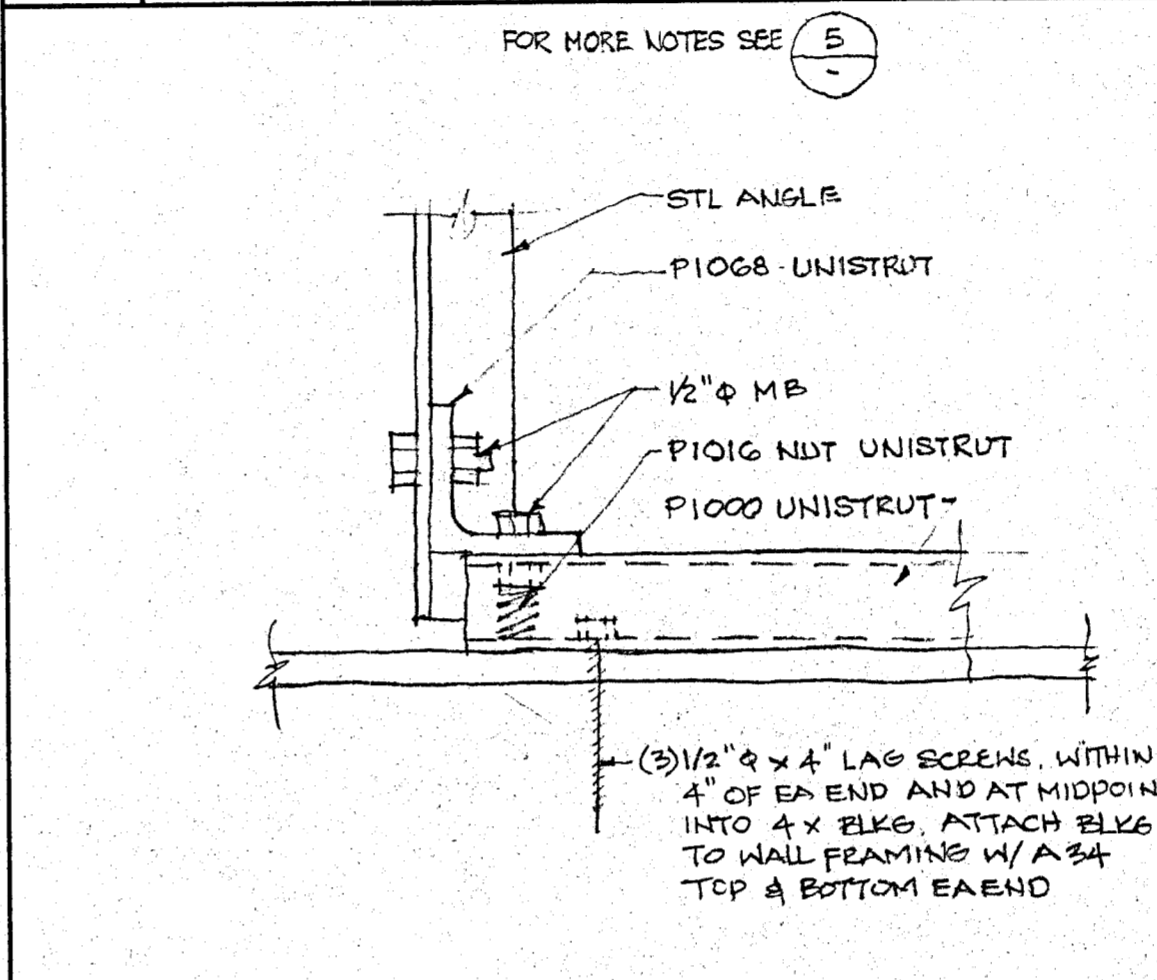
14 COLUMN TOP ATTACHMENT ANGLE
SCALE: 3/4"=1'-0"



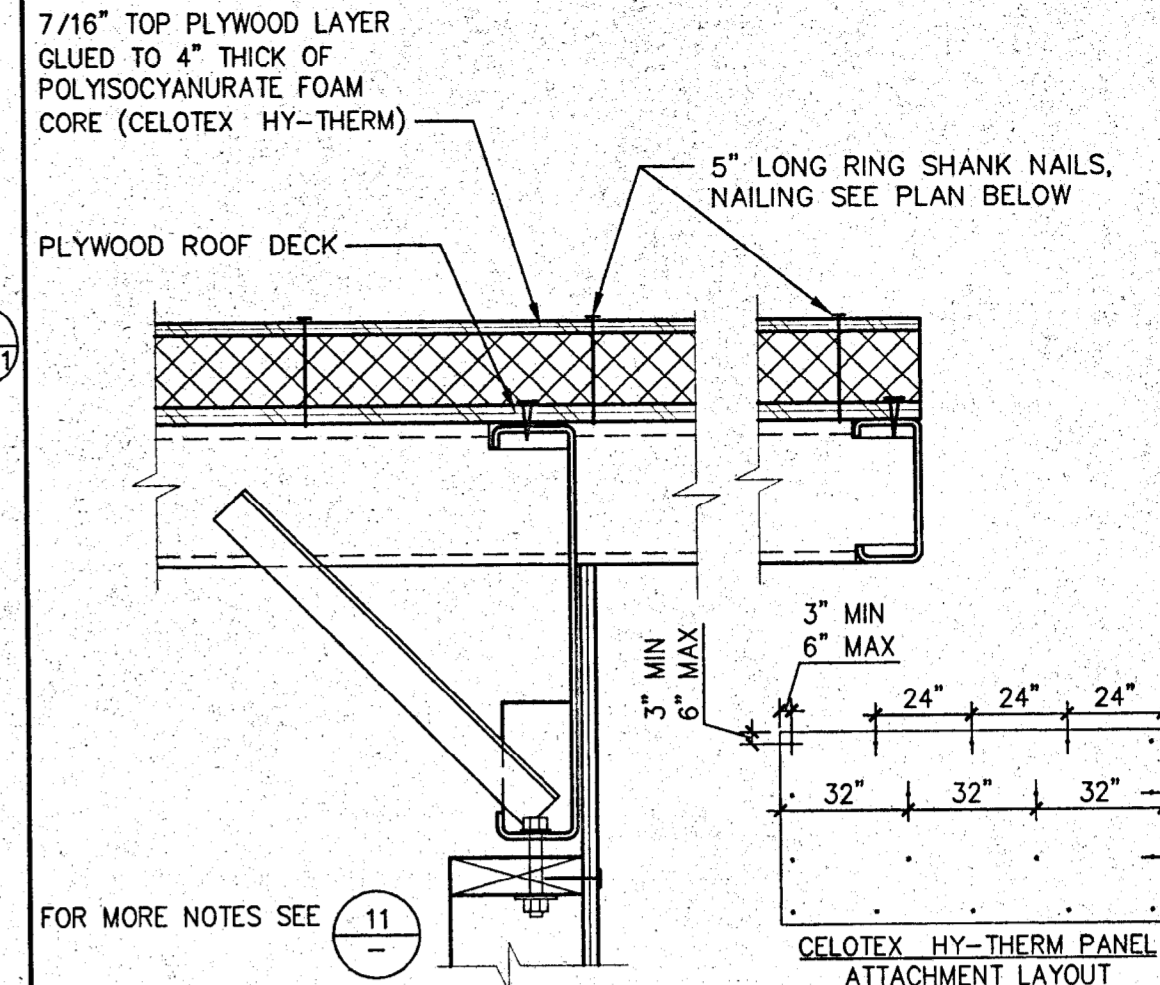
10 COLUMN TOP ASSEMBLY
SCALE: 3/4"=1'-0"



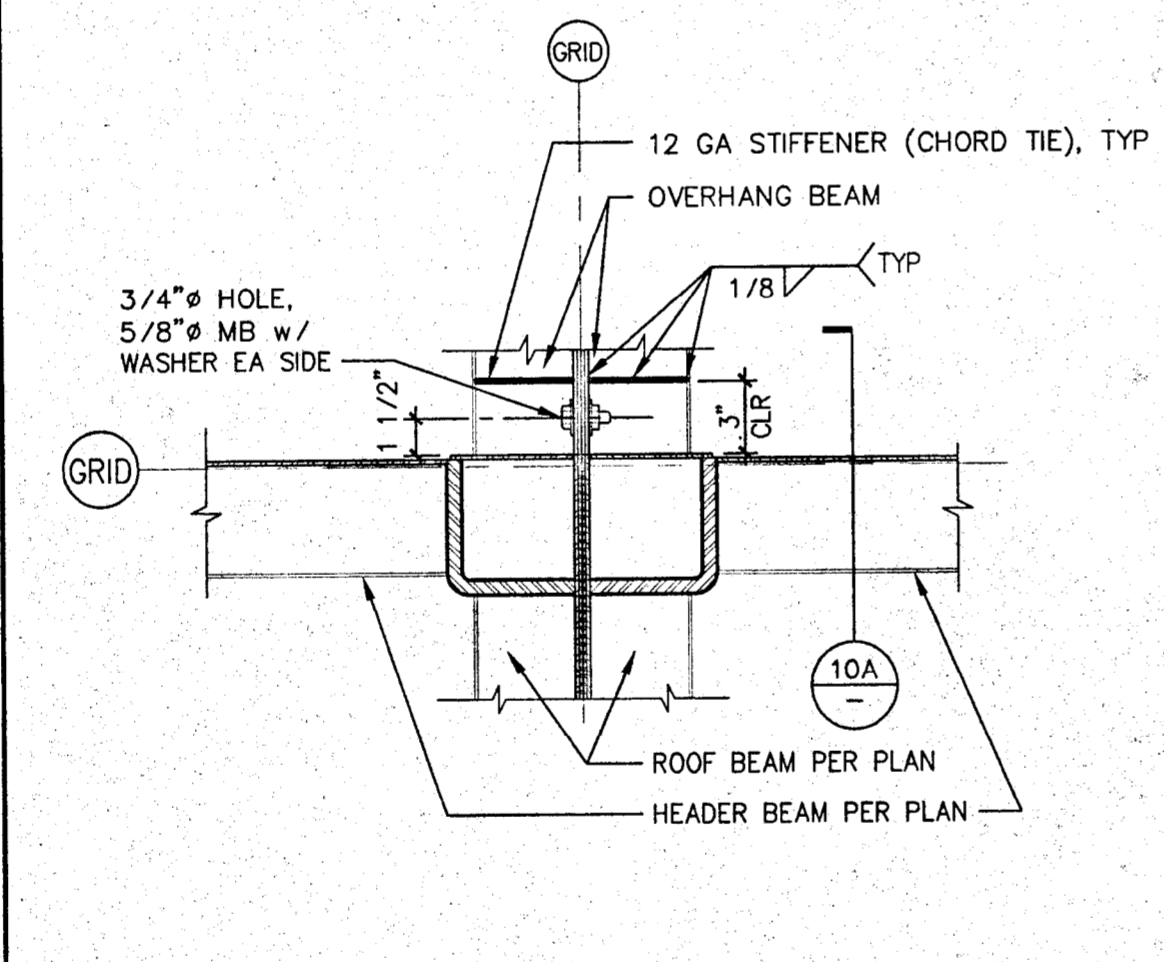
5 HANGING SHELF
SCALE: 3/4"=1'-0"



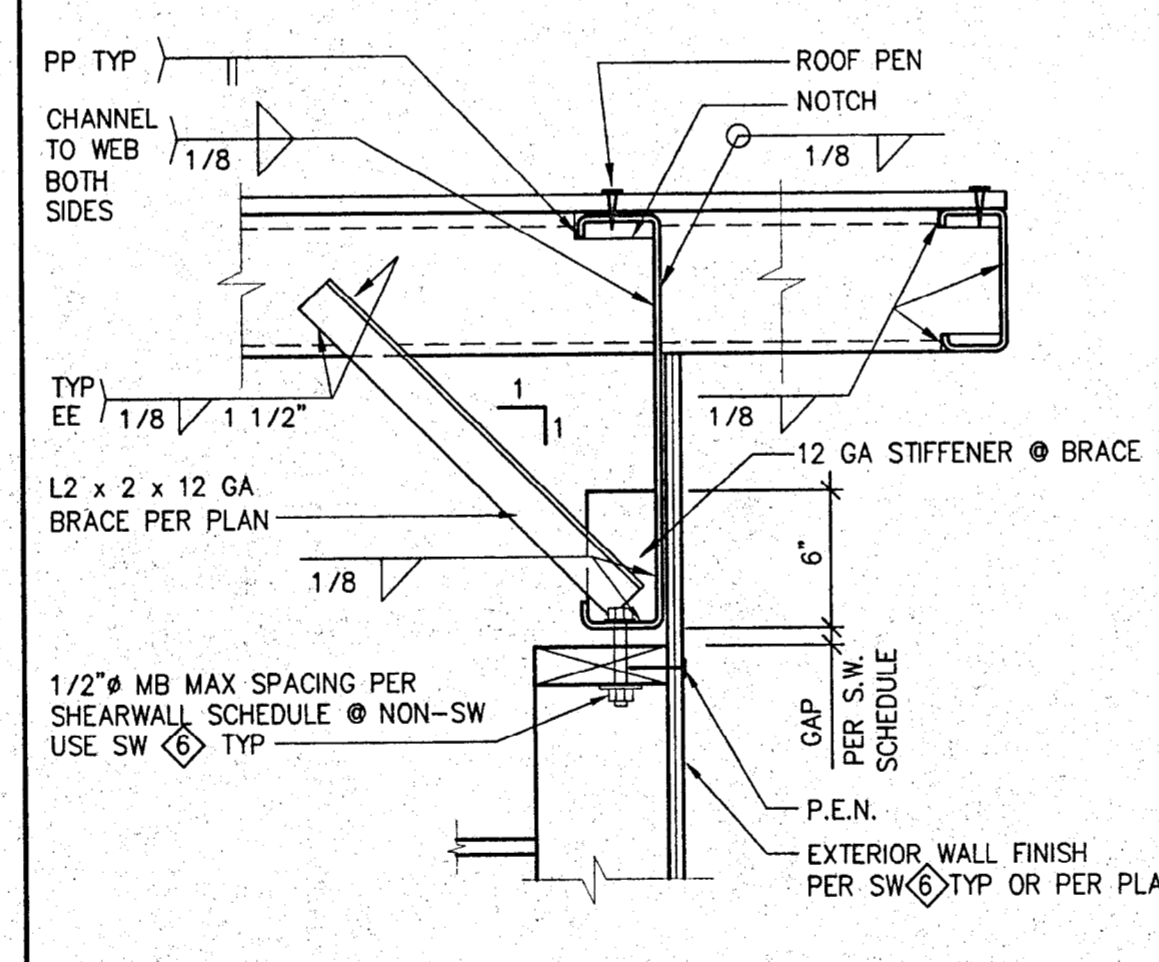
6 HANGING SHELF
SCALE: NTS



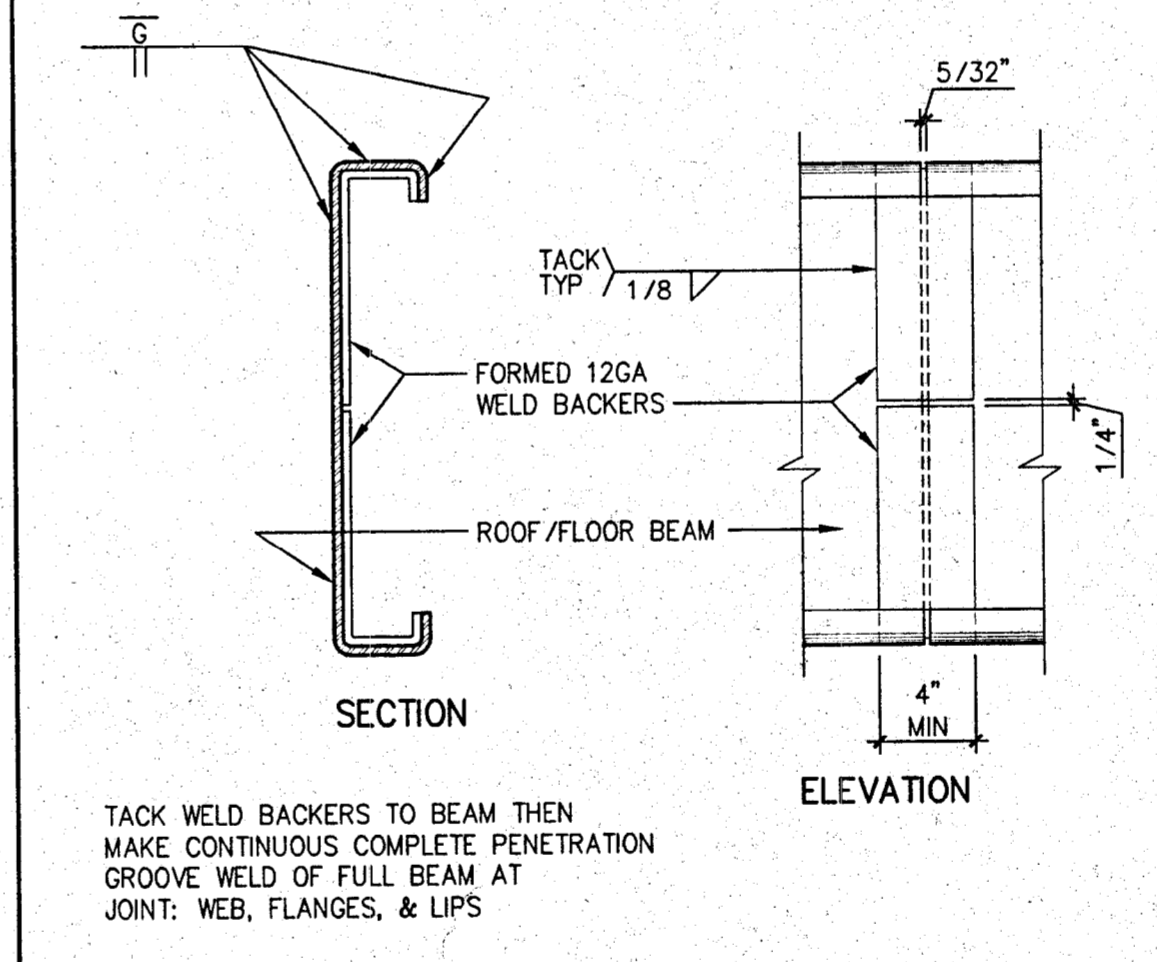
1 RIGID ROOF INSULATION ATTACHMENT
SCALE: 1-1/2"=1'-0"



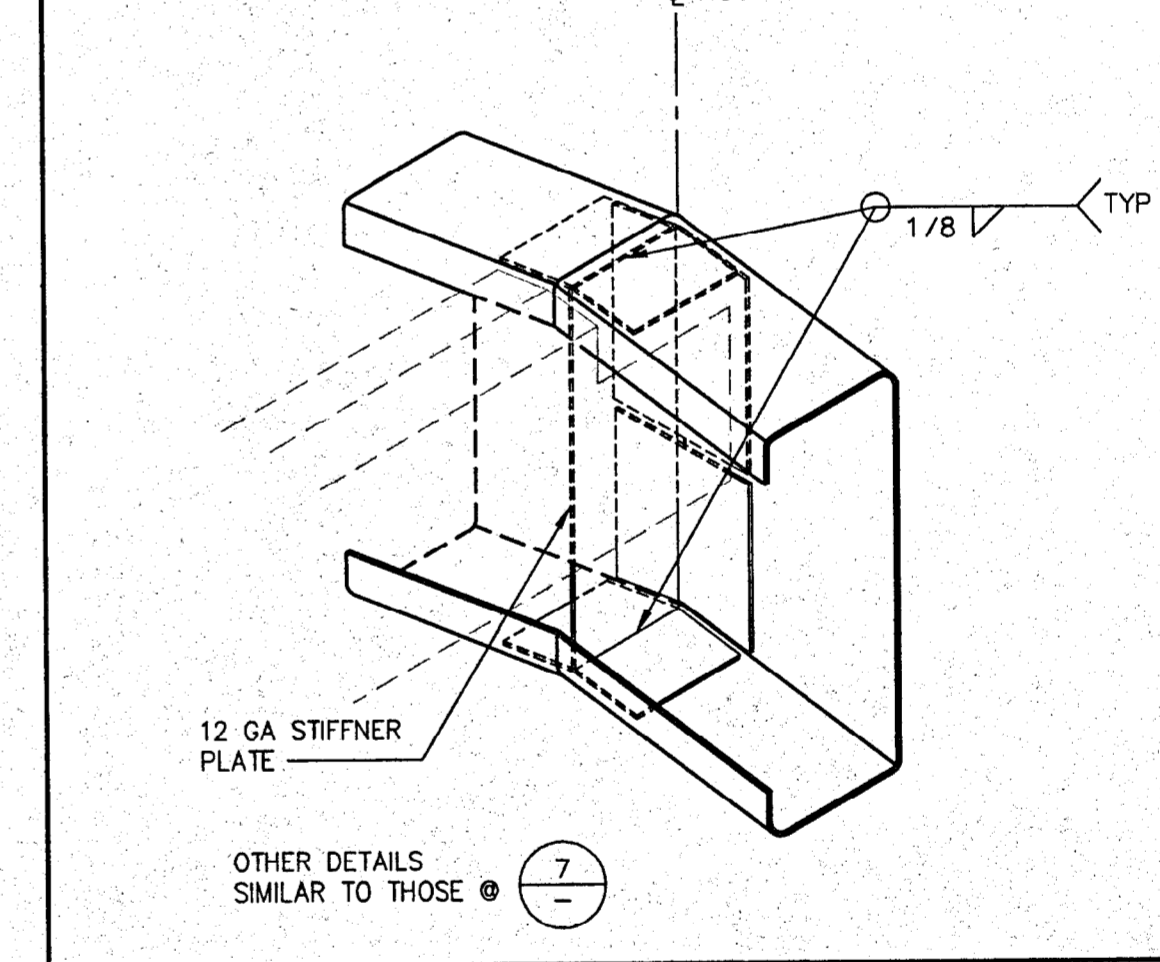
15 ROOF CHORD TIE • MOD TO MOD
SCALE: 1-1/2"=1'-0"



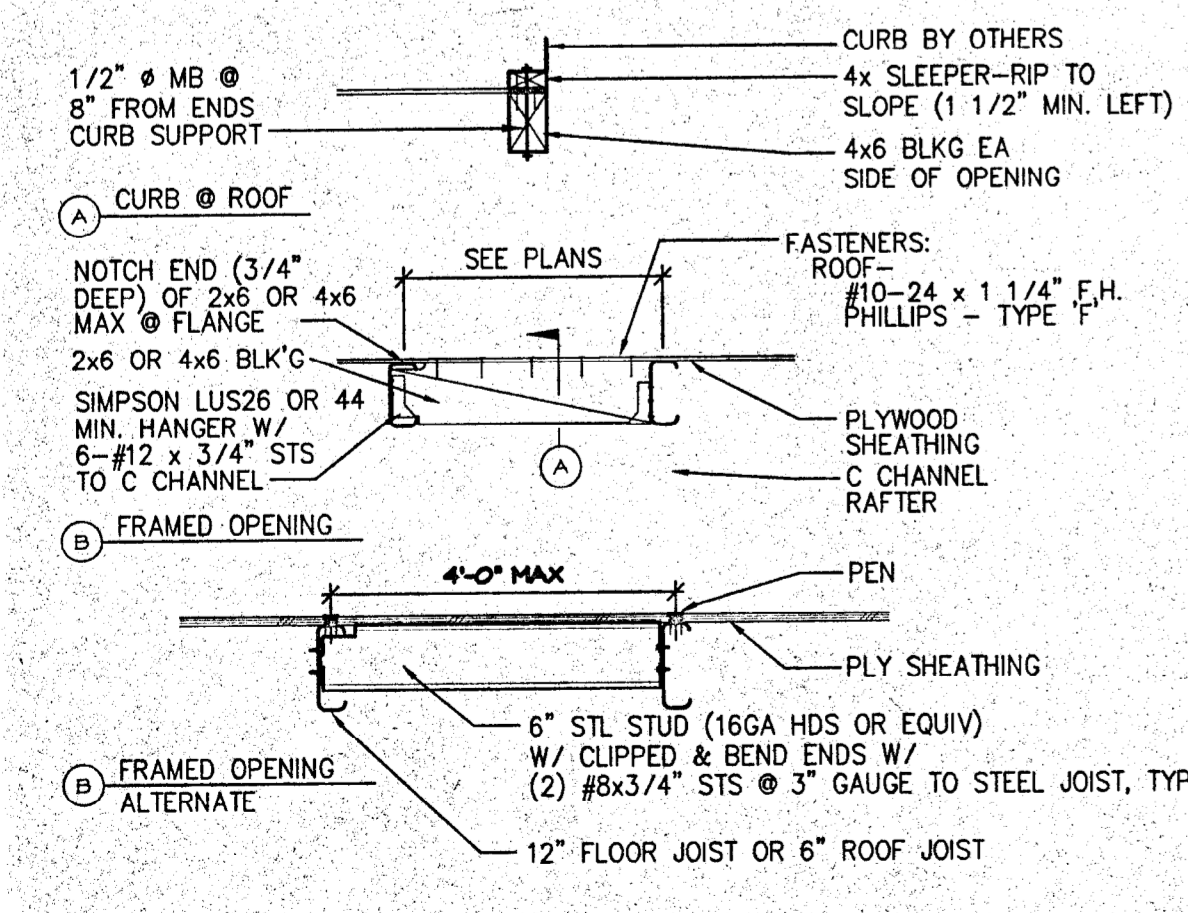
11 ROOF SIDE OVERHANG
SCALE: 1-1/2"=1'-0"



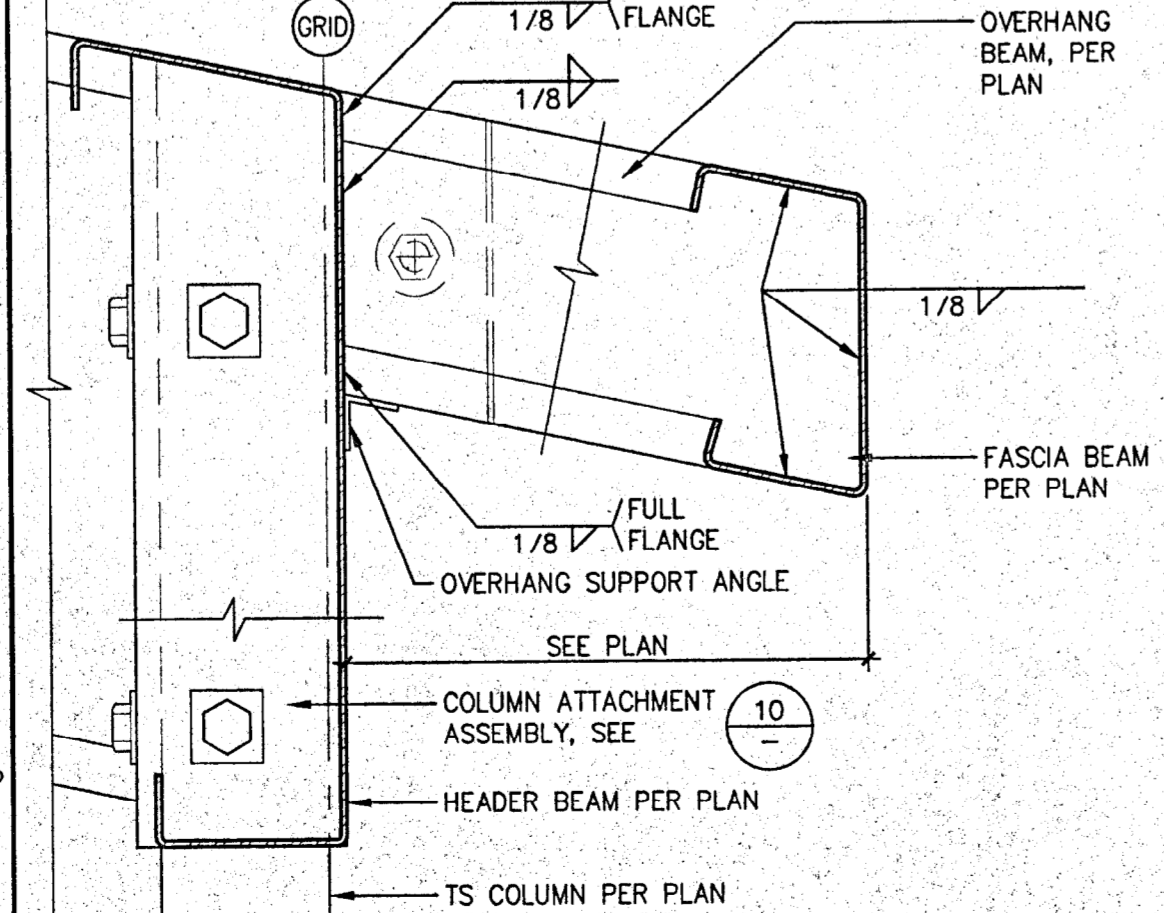
7 BEAM SPLICE
SCALE: 1-1/2"=1'-0"



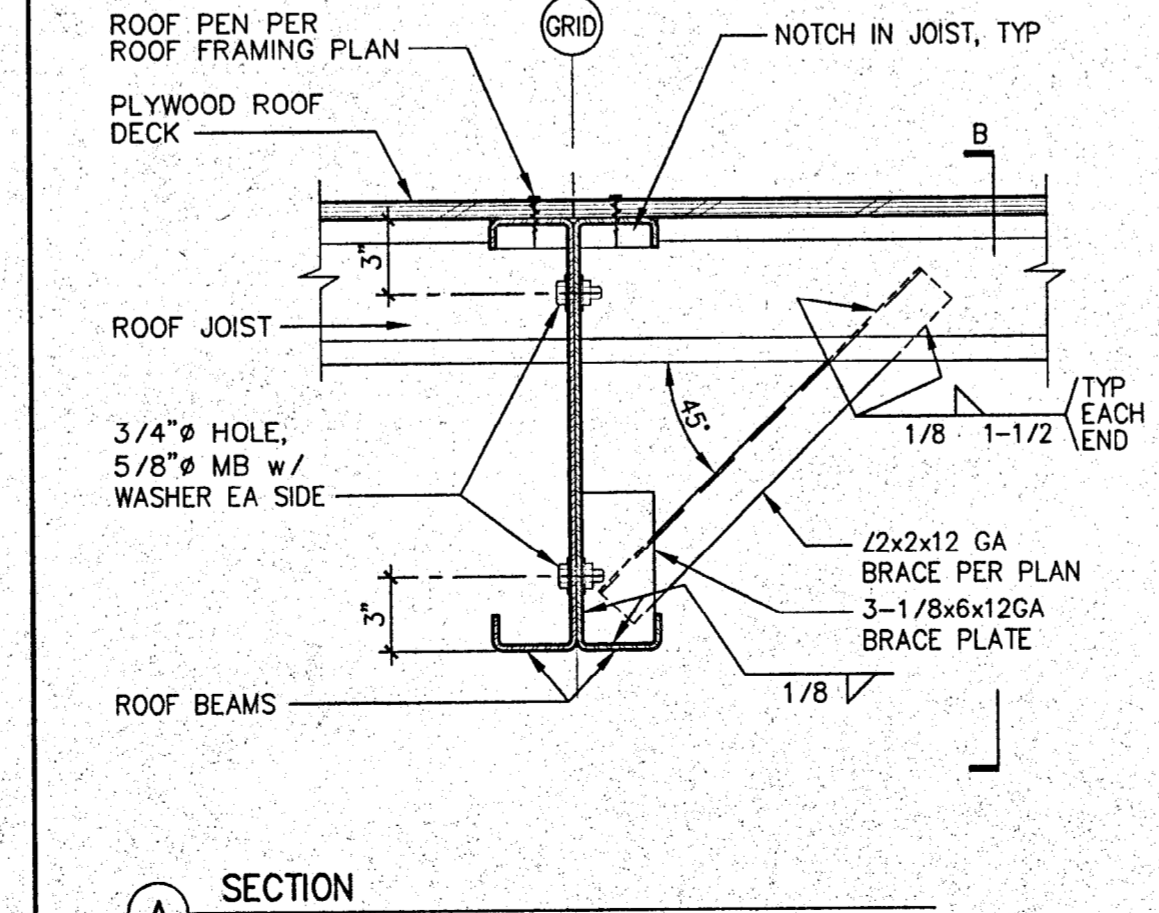
3 RIDGE SPLICE/STIFFENER
SCALE: 3/4"=1'-0"



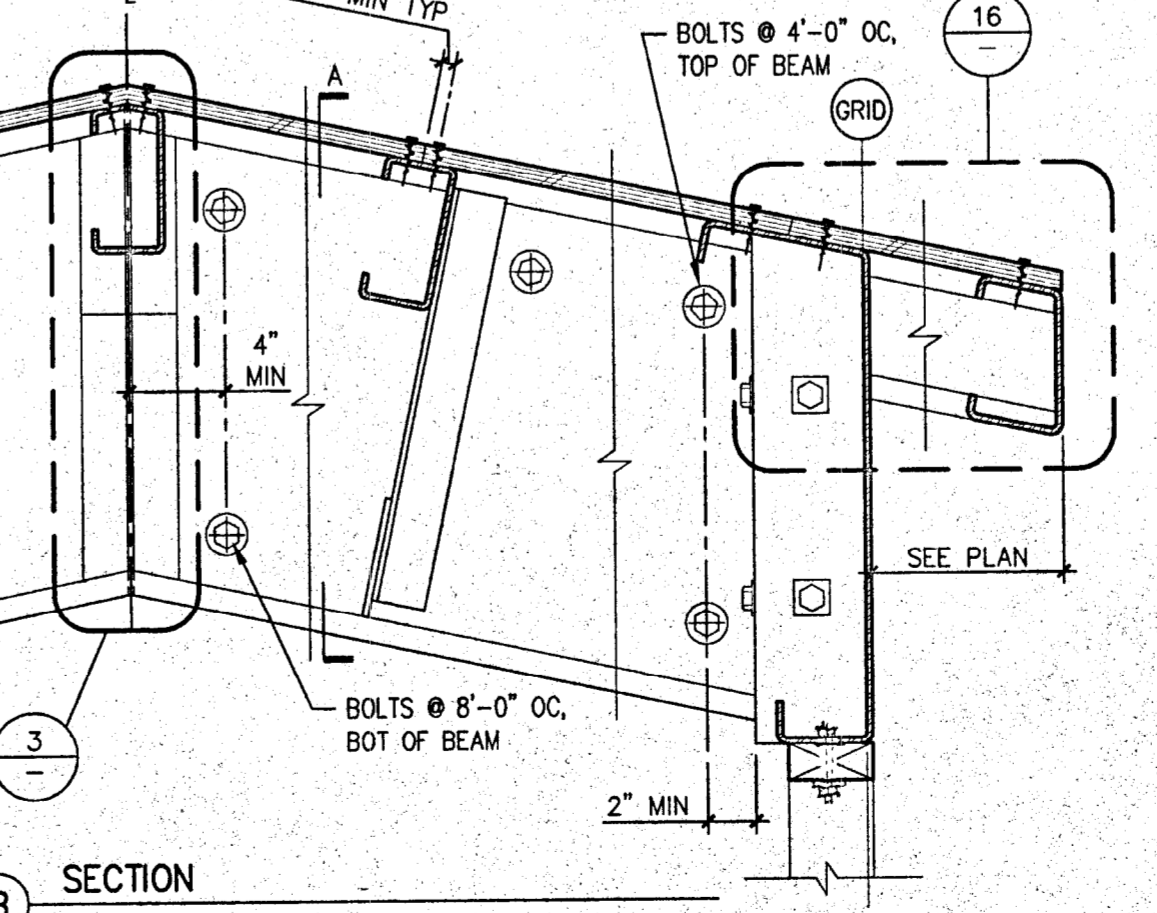
20 DIAPHRAM BLOCKING
SCALE: 3/4"=1'-0"



16 HEADER BEAM • OVERHANG
SCALE: 3/4"=1'-0"



12 ROOF SECTIONS
SCALE: 1-1/2"=1'-0"



7 BEAM SPLICE
SCALE: 1-1/2"=1'-0"

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REVISIONS

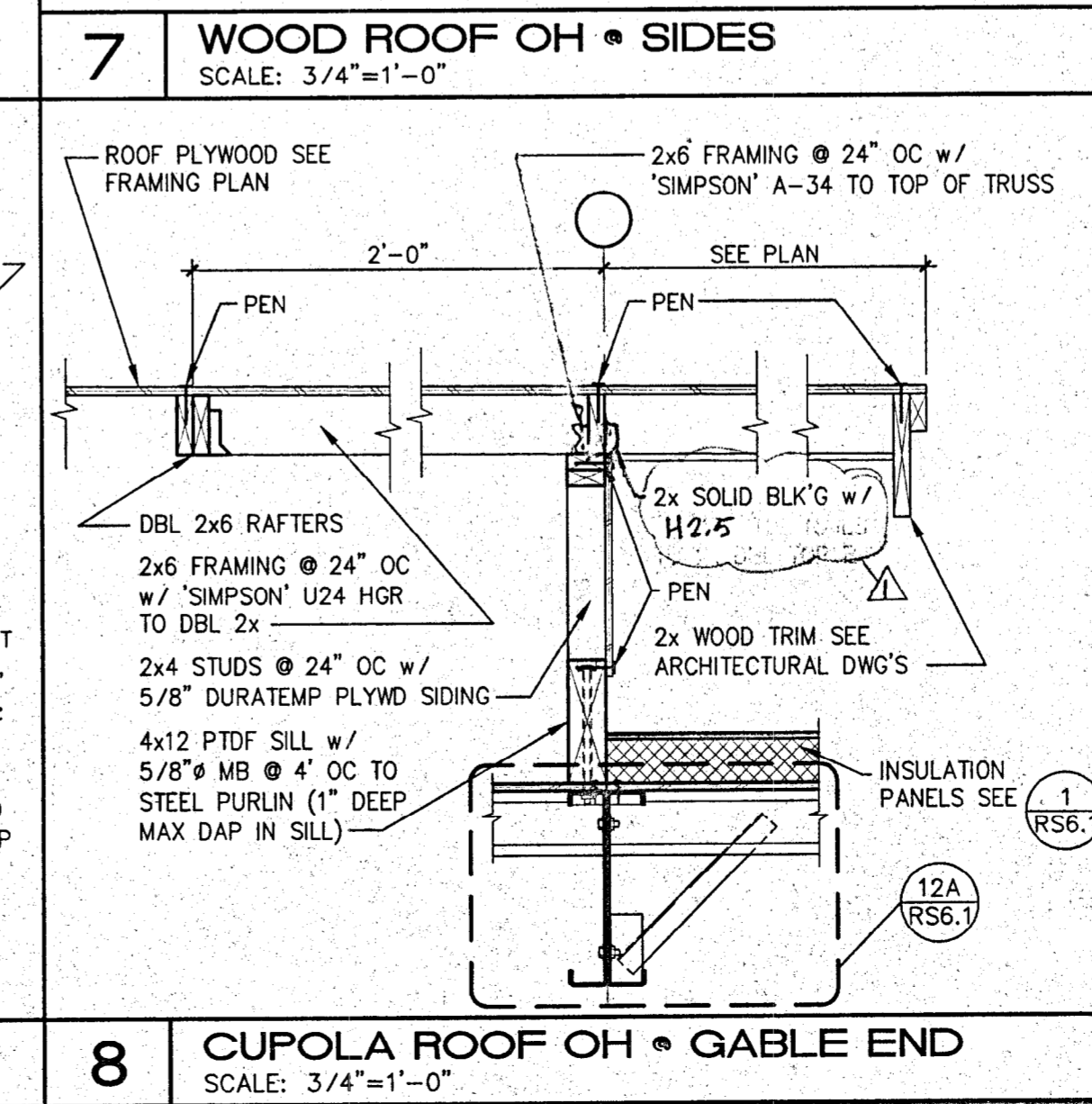
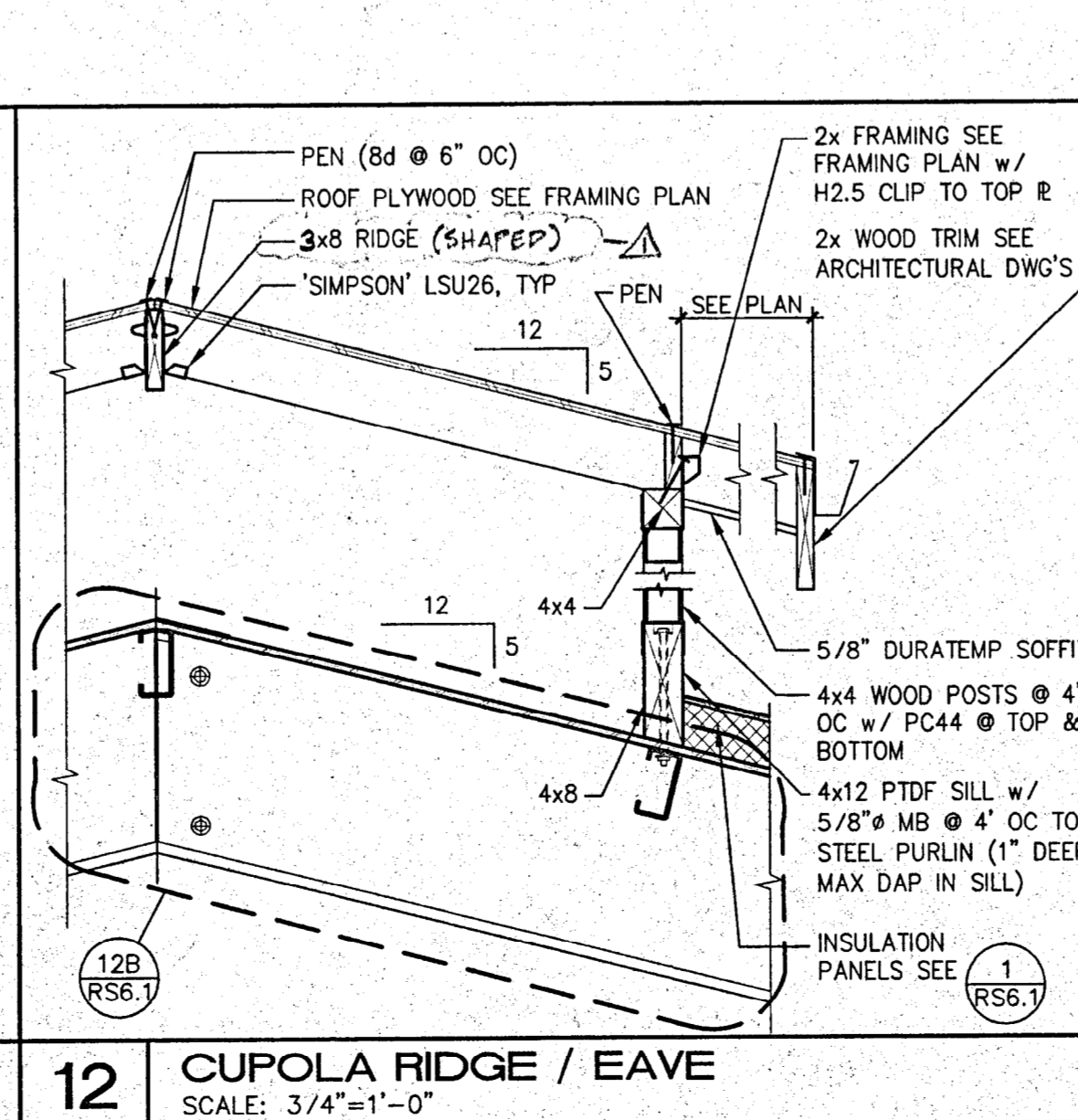
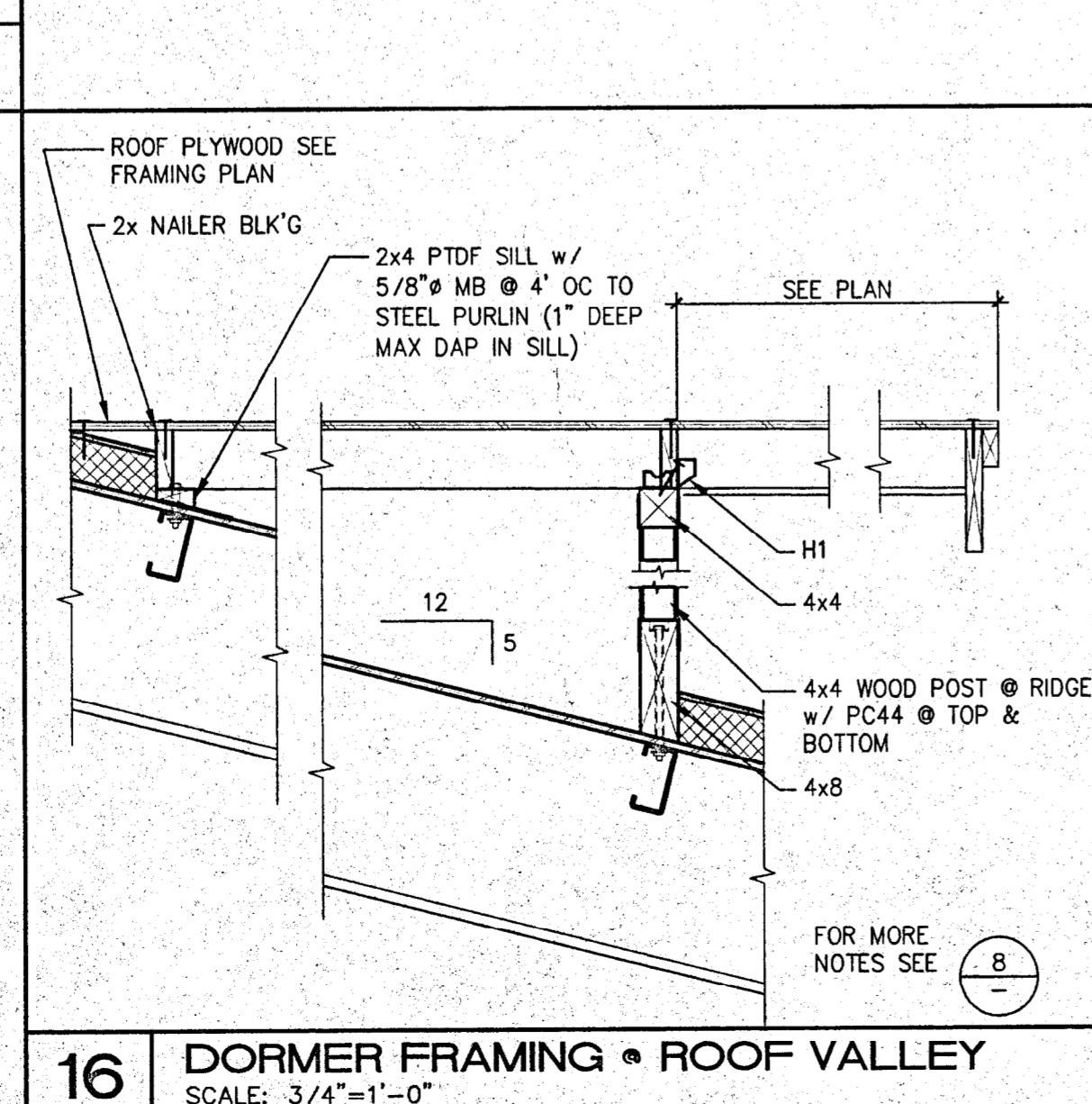
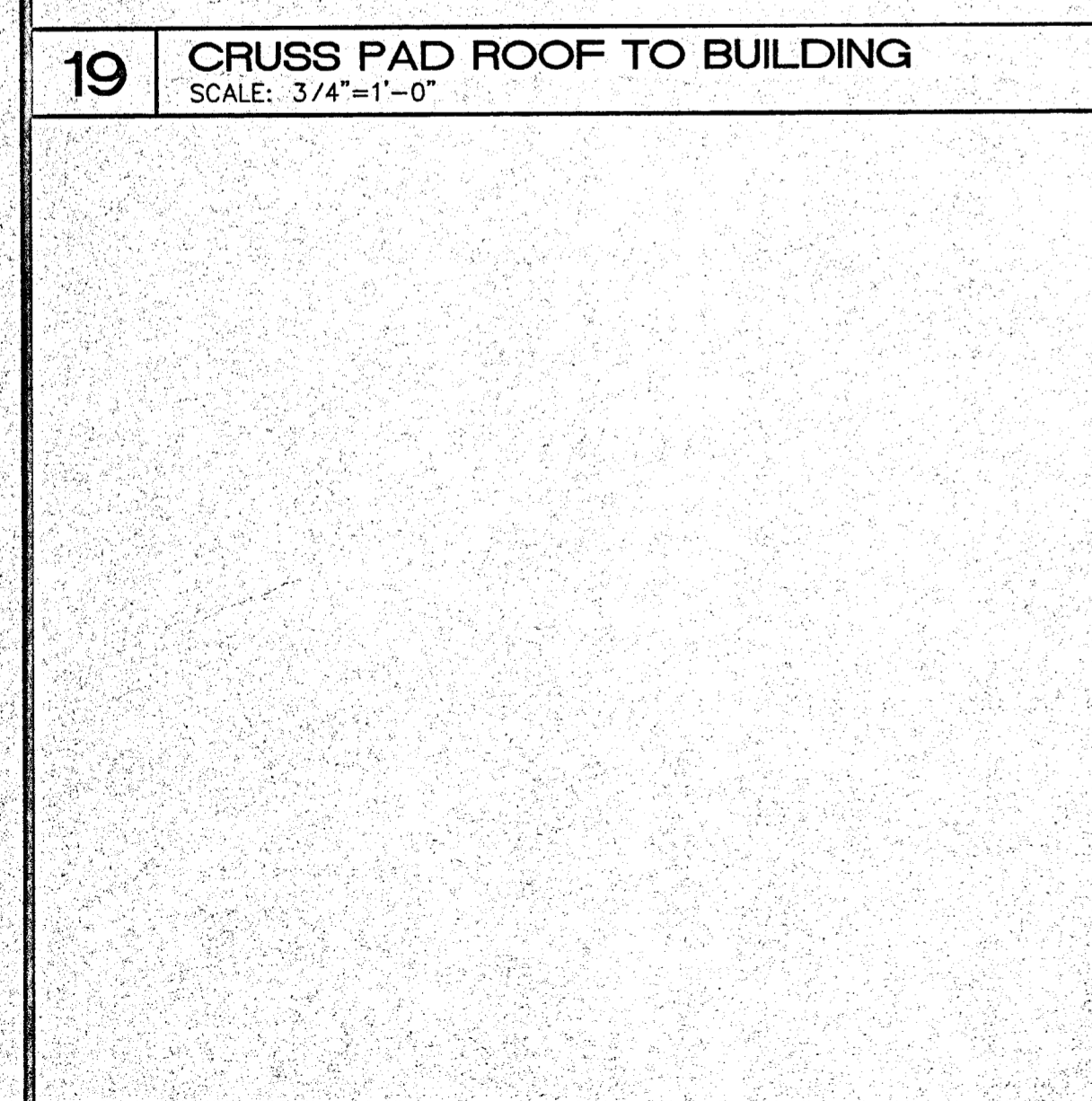
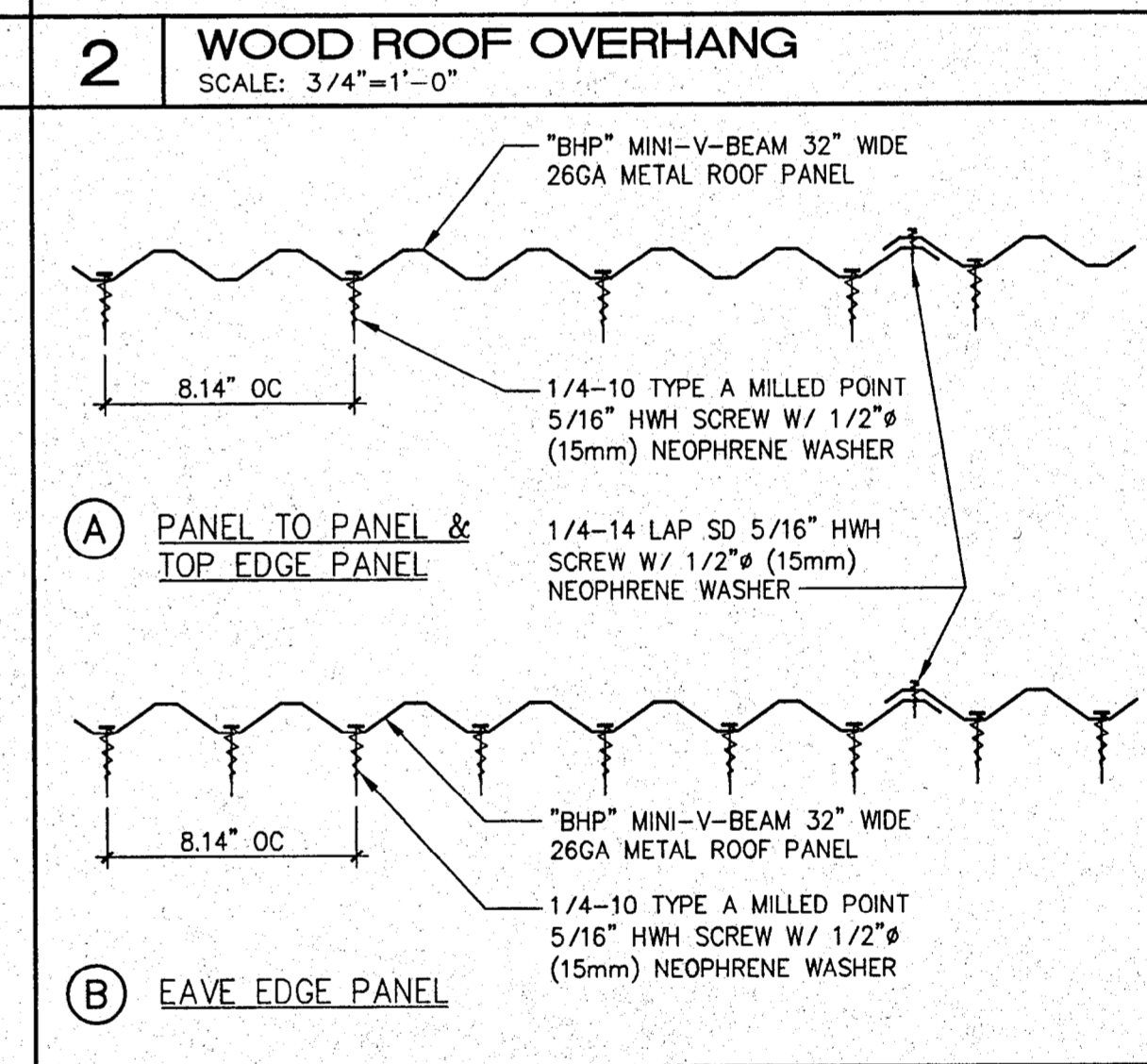
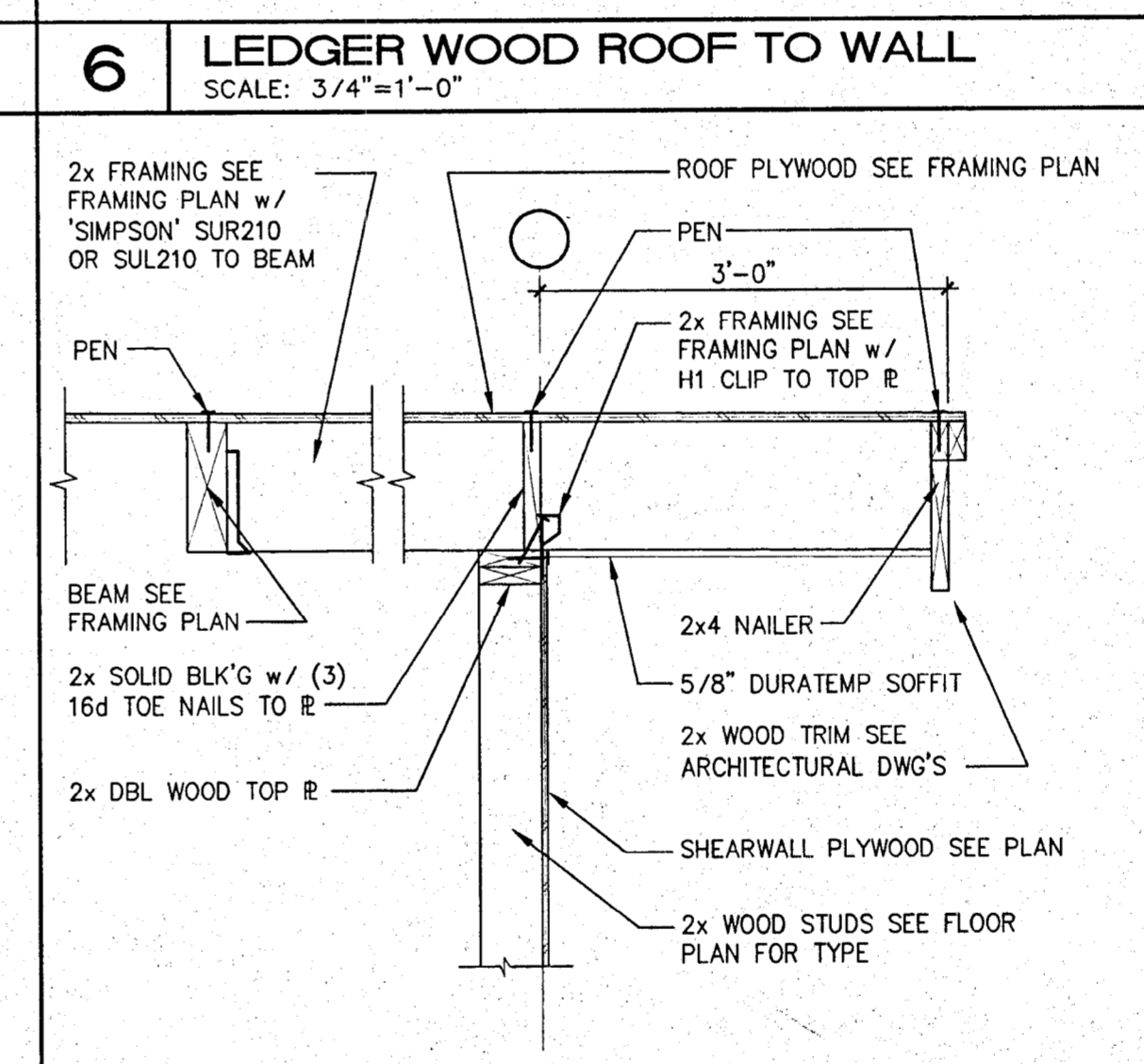
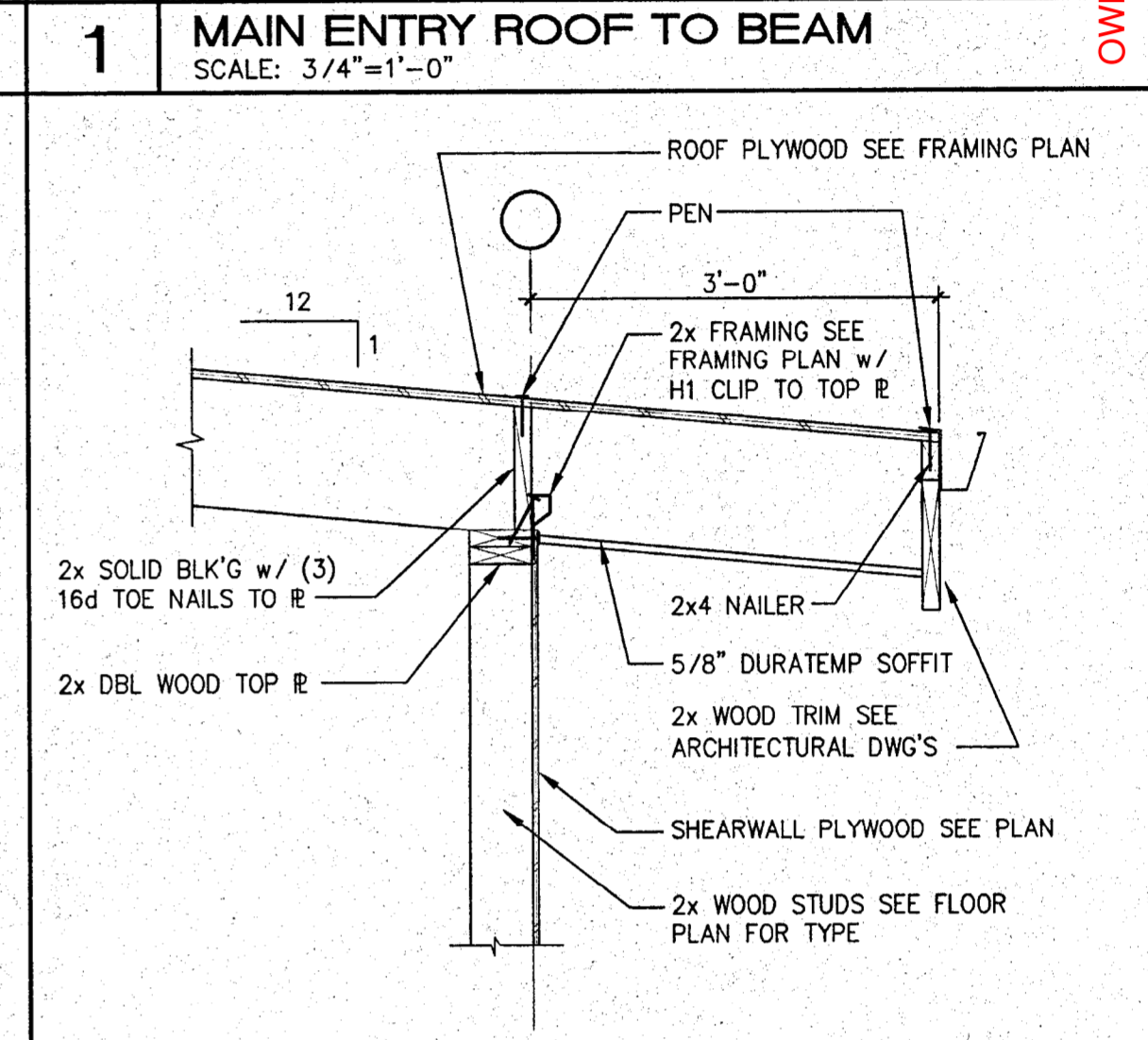
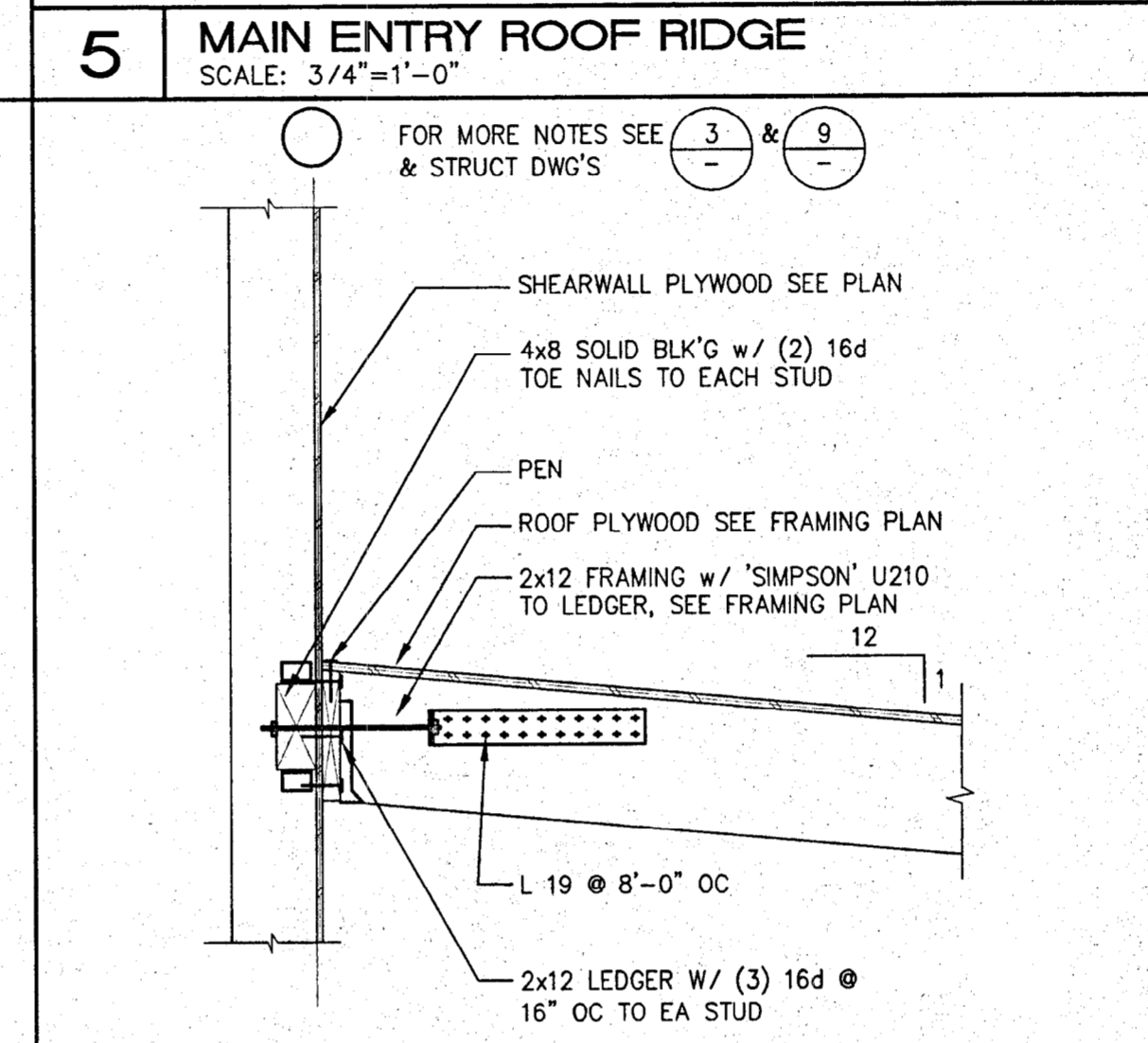
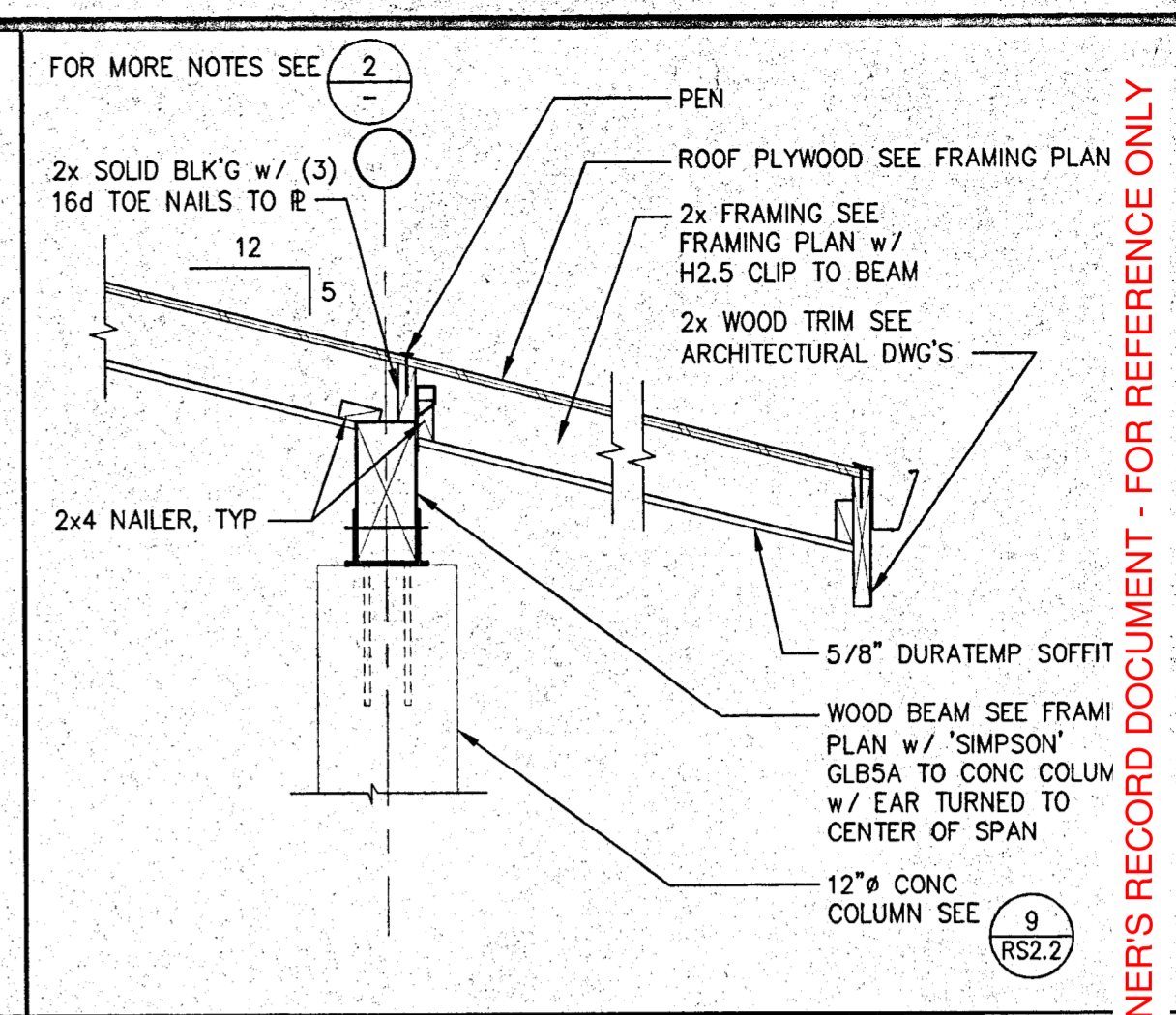
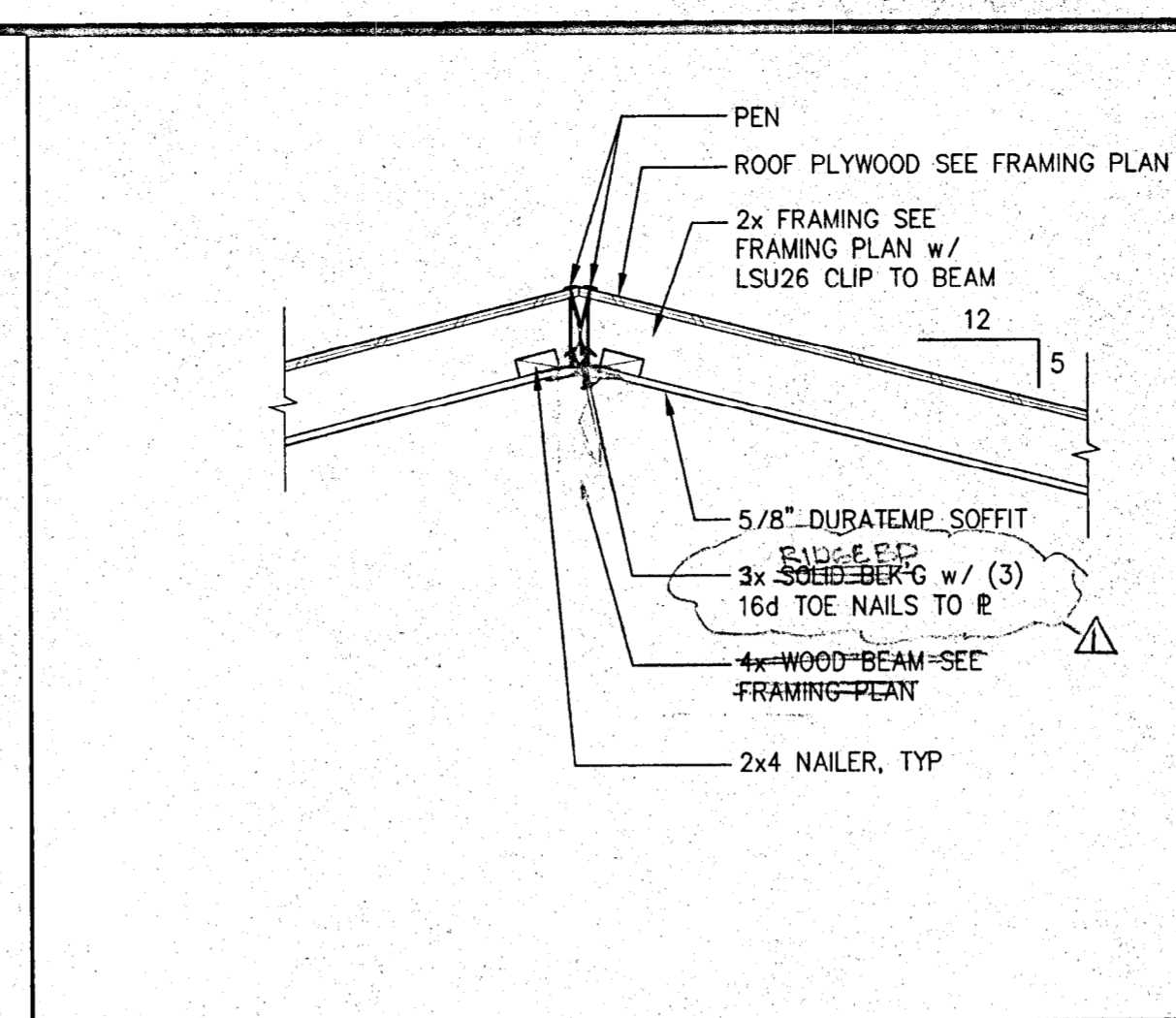
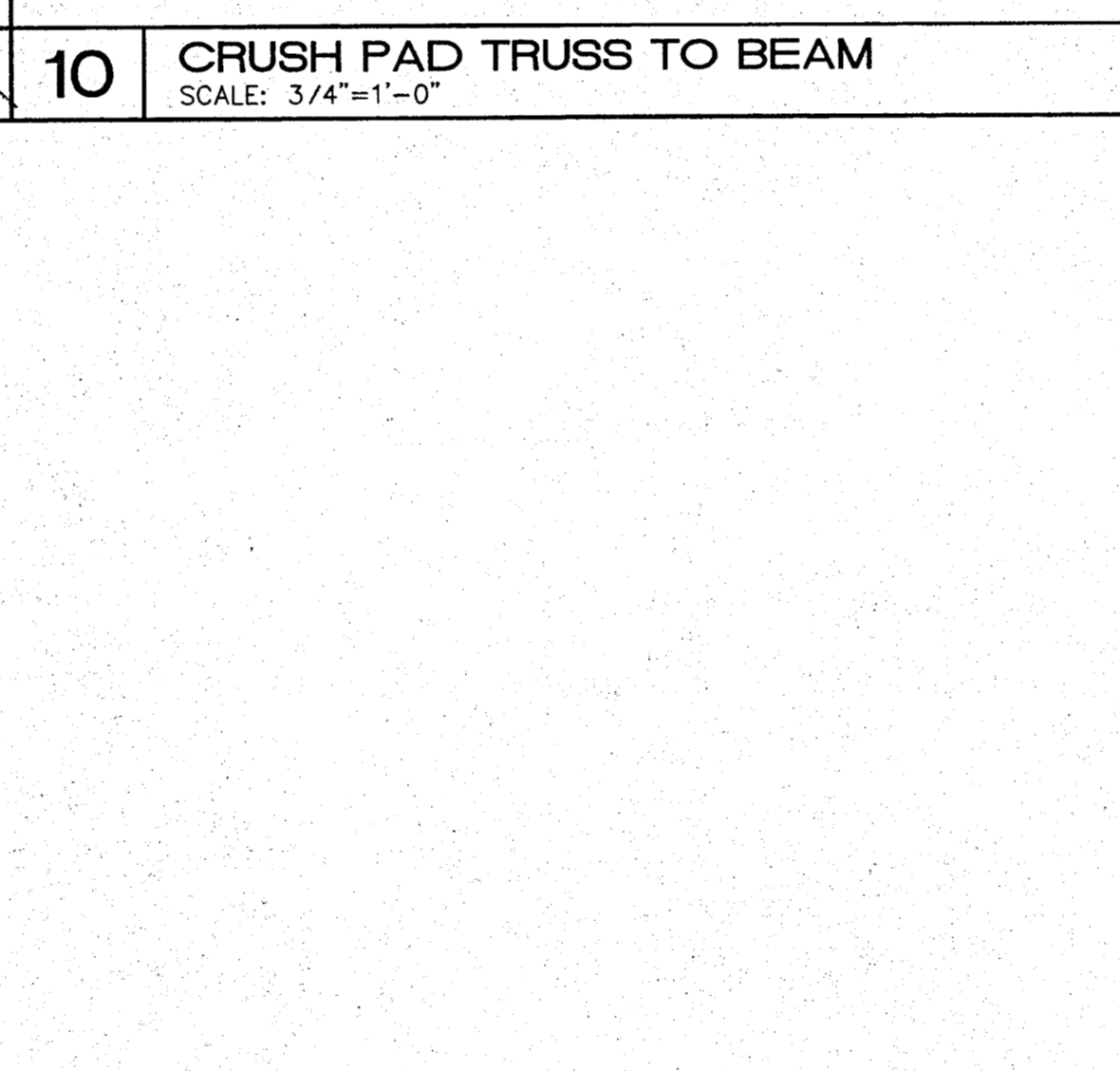
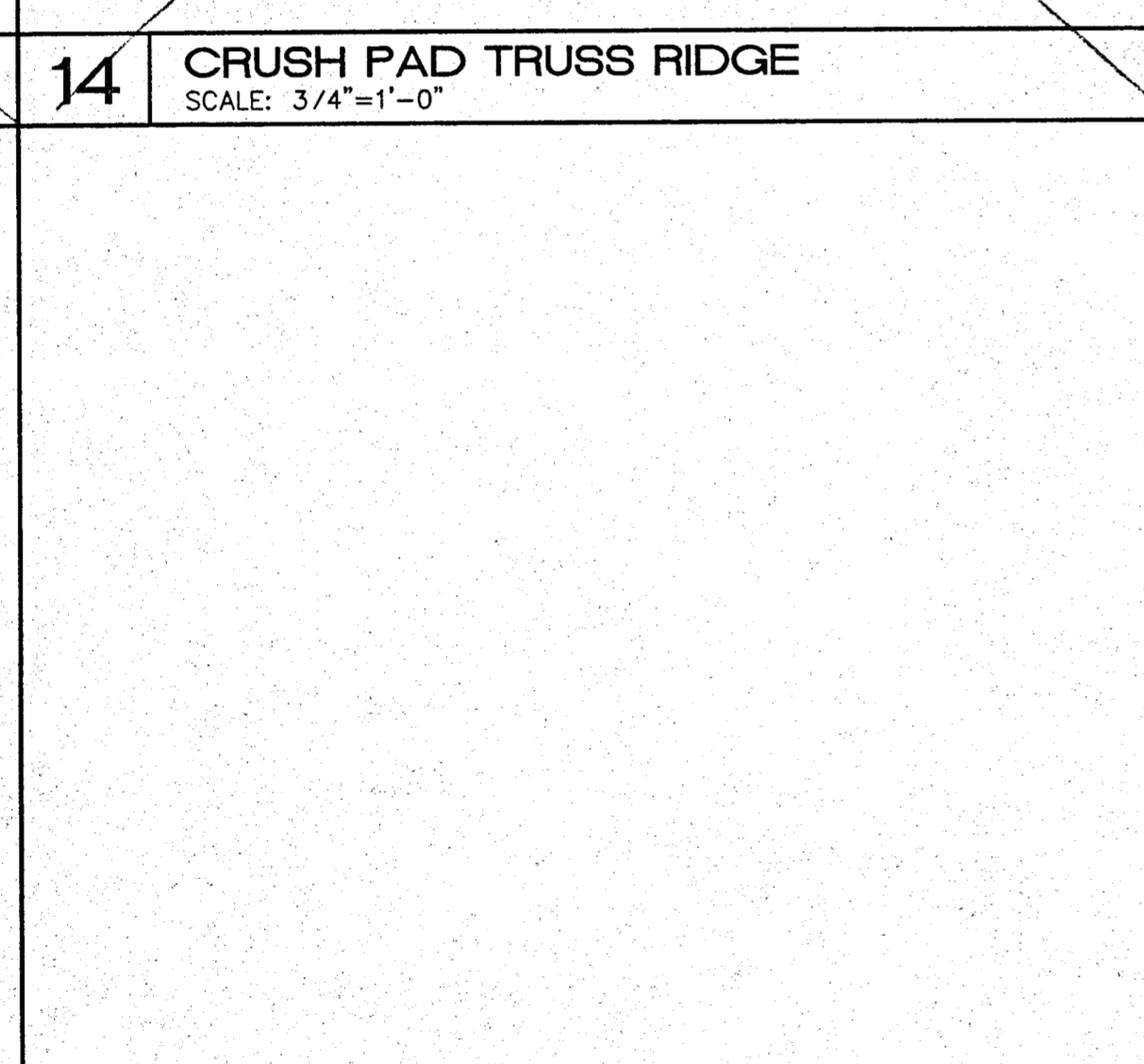
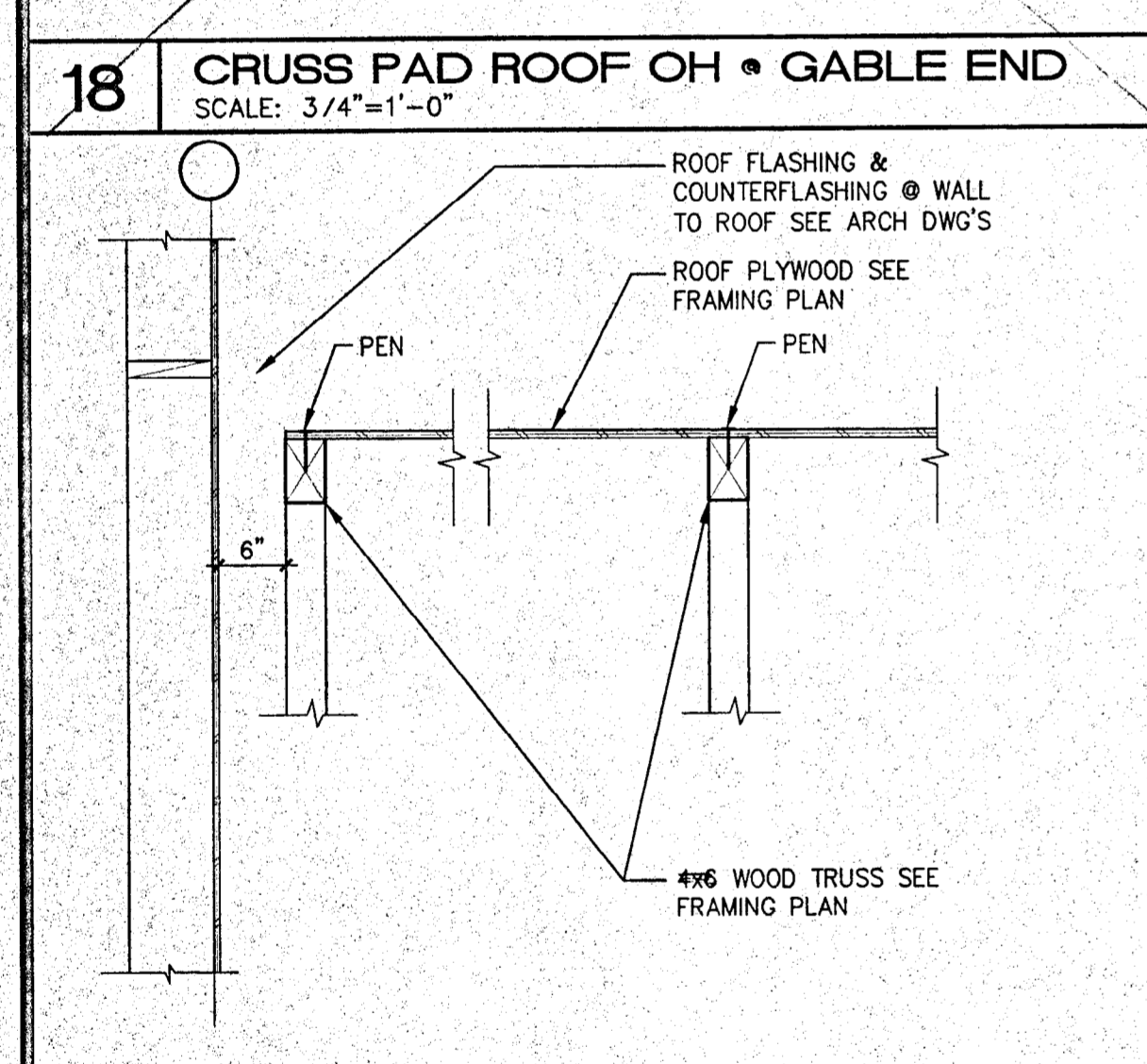
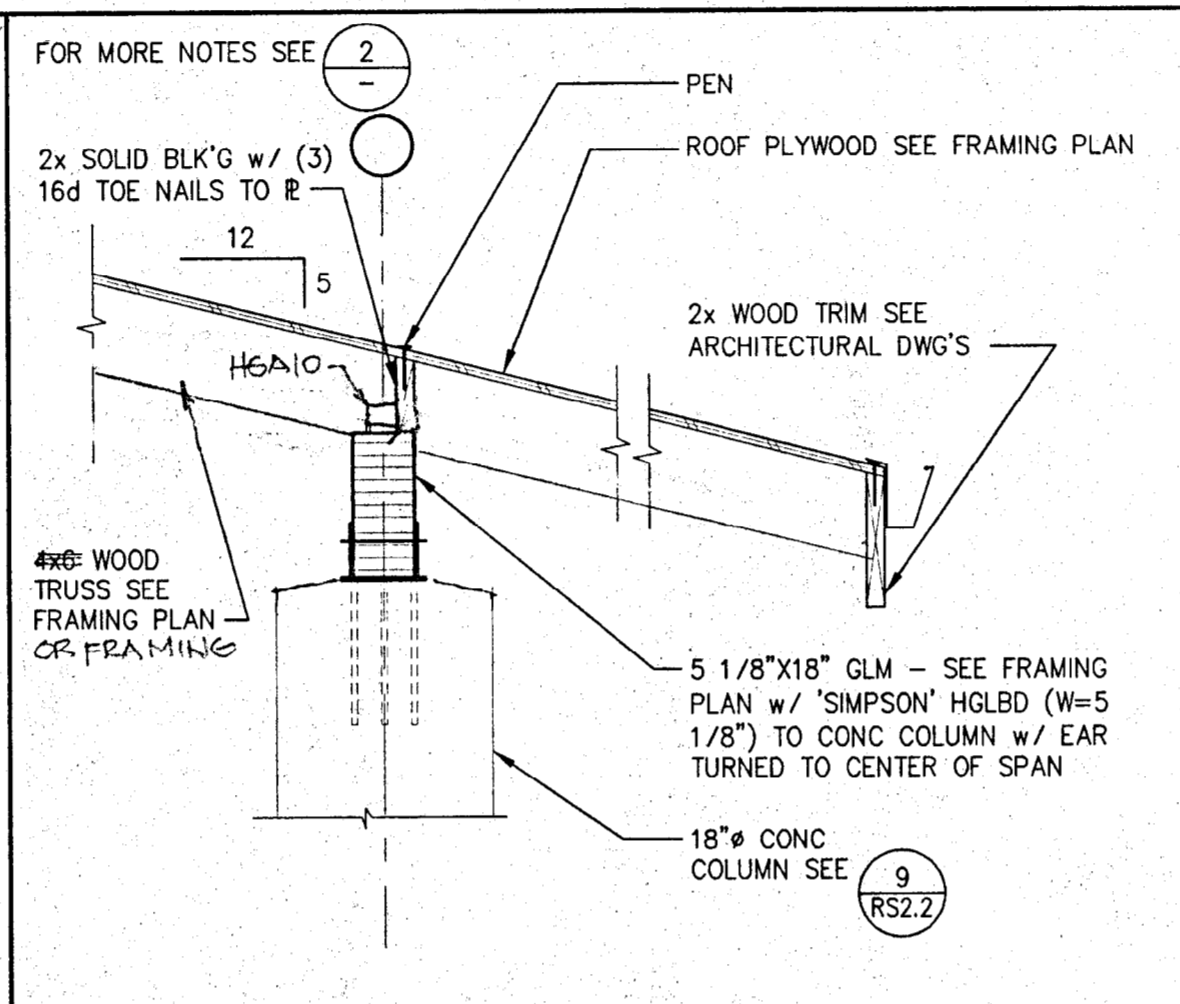
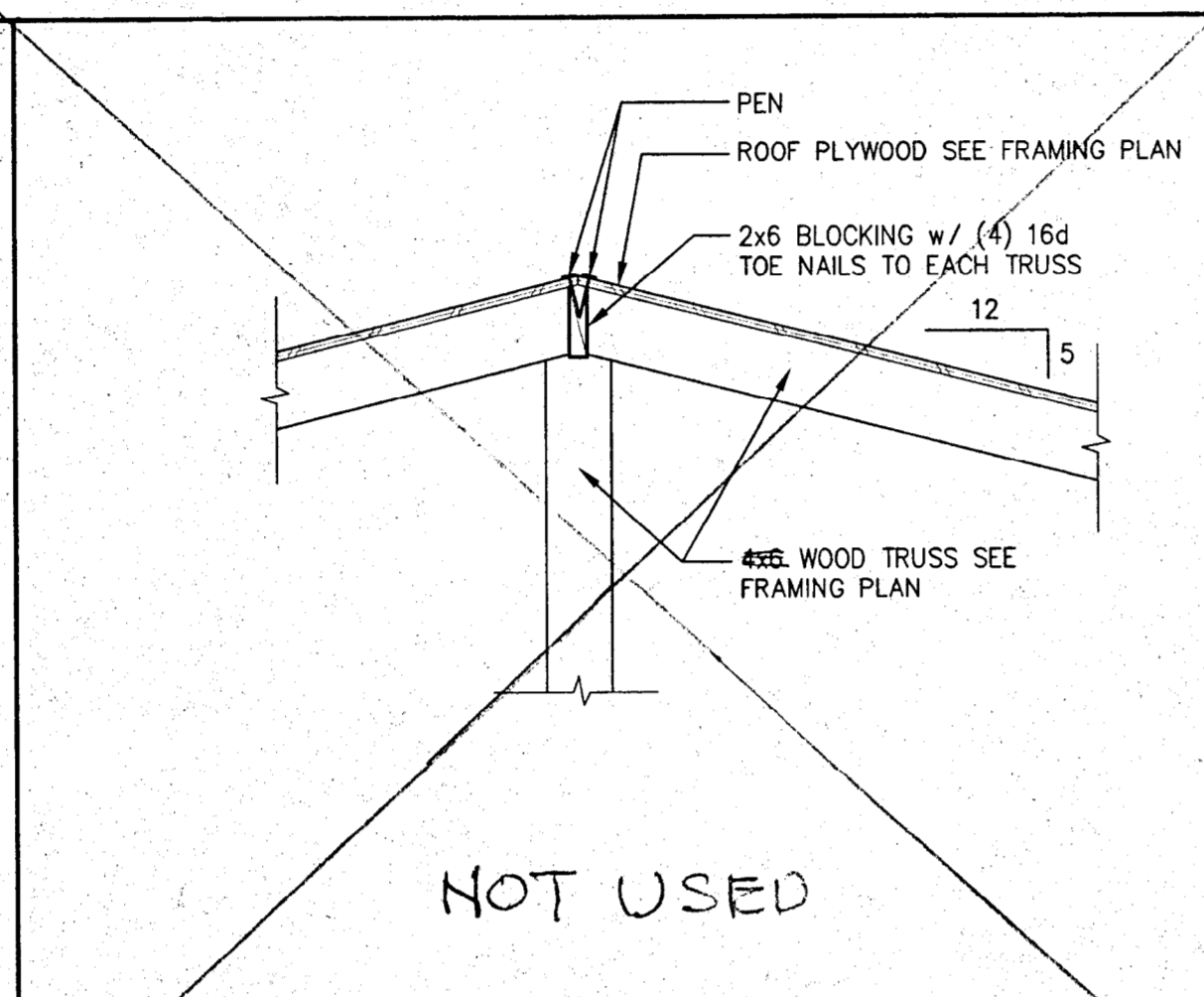
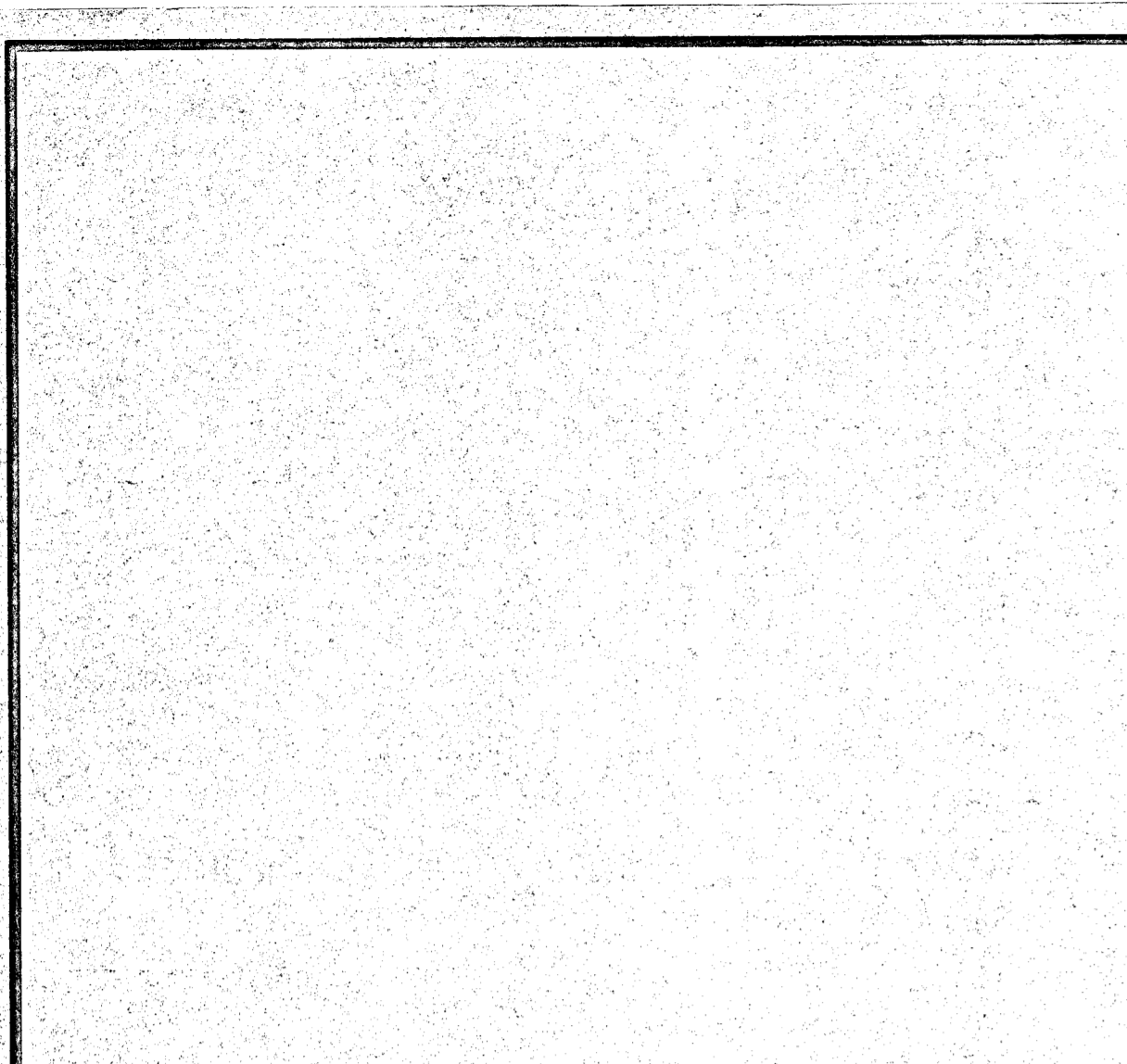
DONALD S. MACKY, A.I.A.
1770 KING AVENUE
NAPA, CALIFORNIA 94559
CERTIFICATE NO. C751
ARCHITECT

NAPA VALLEY VINTNERS TEACHING WINERY
Napa Valley College
Napa, California

ROOF FRAMING DETAILS

DATE: JULY 26, 2001
SCALE: NOTED
DRAWN BY: PLP
JOB: 00-107

RS6.1



IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP # 01-103886
FILE # 28-C1
DATE SEP 20 2001

REGISTERED PROFESSIONAL ENGINEER
ROBERT E. NEAL
No. 4587
Expires 12/31/02
STRUCTURAL
STATE OF CALIFORNIA
11/7/01

REGISTERED ARCHITECT
DONALD S. MACKY
No. 94559
Expires 12/31/02
ARCHITECT
STATE OF CALIFORNIA

ARCHITERRA
100 WIKIUP DRIVE
SANTA ROSA, CA 95403
(707) 578-7000
FAX 535-0247

REVISIONS
1. SEPT 28, 01
2.
3.
4.

OWNER'S RECORD DOCUMENT - FOR REFERENCE ONLY

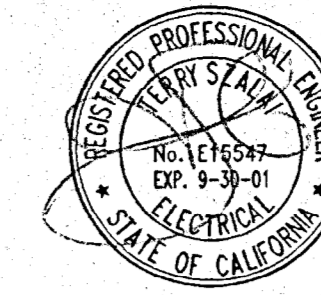
DONALD S. MACKY, A. I. A.
1770 KING AVENUE
NAPA, CALIFORNIA 94559
ARCHITECT
CERTIFICATE NO. C751

**NAPA VALLEY VINTNERS
TEACHING WINERY**
Napa Valley College
Napa, California

**ROOF
FRAMING
DETAILS**

DATE: JULY 26, 2001
SCALE: NOTED
DRAWN BY: PLP
JOB: 00-107

RS6.2



OWNER'S RECORD DOCUMENT - FOR REFERENCE ONLY

SYMBOLS LIST AND ABBREVIATIONS

NOTE: SOME SYMBOLS MAY NOT APPEAR ON ELECTRICAL DRAWINGS DASHED LINETYPE INDICATES EXISTING DEVICE OR EQUIPMENT

- Lighting and Controls: Recessed Fluorescent Fixture, Surface Fluorescent Fixture, Pendant Fluorescent Fixture, Wall-mounted Fluorescent Fixture, Downlight, Floodlight, Emergency Lighting, etc.

- Power and Rough-in: Switchboard, Transformer, Circuit Breaker, Fused Switch, Ground-Fault Interrupter, etc.

- Abbreviations: A - Amperes, AF - Amp-Frame, AFF - Above Finished Floor, etc.

- General: Note Tag, Detail or Plan Reference, etc.

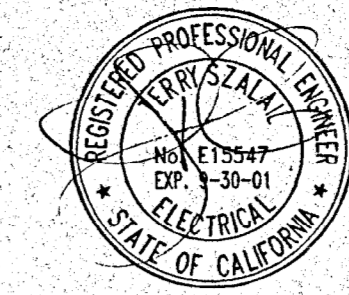
APPLICABLE CODES (for DSA FLS)
• 1998 CBC, 1998 CEC, 1998 CMC, 1998 CFC
• TITLE 19 PUBLIC SAFETY - CALIFORNIA STATE FIRE MARSHAL REQUIREMENTS
• NFPA 1996 W/ CA AMENDMENTS (NATIONAL FIRE ALARM CODE)
• SEE SECTION 16010: BASIC ELECTRICAL REQUIREMENTS FOR FURTHER APPLICABLE CODE AND STANDARDS

SHEET INDEX - NAPA VALLEY VINTNERS TEACHING WINERY
E0.1 SYMBOLS AND ABBREVIATIONS, SHEET INDEX AND FIXTURE SCHEDULE
E1.0 SITE PLAN
E2.0 LIGHTING PLAN
E3.0 POWER/TELCOM PLAN
E4.0 MECHANICAL EQUIPMENT PLAN
E5.0 SINGLE-LINE DIAGRAM, PANEL SCHEDULE AND FIRE ALARM DETAILS
E6.0 FIRE ALARM RISER DIAGRAM, NOTES AND CALCULATIONS
E7.0 DETAILS

LIGHTING FIXTURE SCHEDULE
Table with columns: TYPE, MANUFACTURER AND MODEL, DESCRIPTION, LAMPS (TYPE, QTY), WATTS PER FIXTURE, WEIGHT (LBS), MOUNTING.

Professional Engineer Seal for Perry S. Macky, No. 14162, Exp. 9-30-01, State of California.
IDENTIFICATION STAMP: DIV. OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES, APP # 01-103886, FILE # 28-C1, DATE SEP 20 2001.

REVISIONS
DONALD S. MACKY, A.I.A.
1770 KING AVENUE
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NAPA VALLEY VINTNERS TEACHING WINERY
Napa Valley College
Napa, California
SYMBOLS AND ABBREVIATIONS, SHEET INDEX AND FIXTURE SCHEDULE
DATE: JULY 26, 2001
SCALE: AS NOTED
DRAWN BY: HM
JOB: 00-107
E0.1



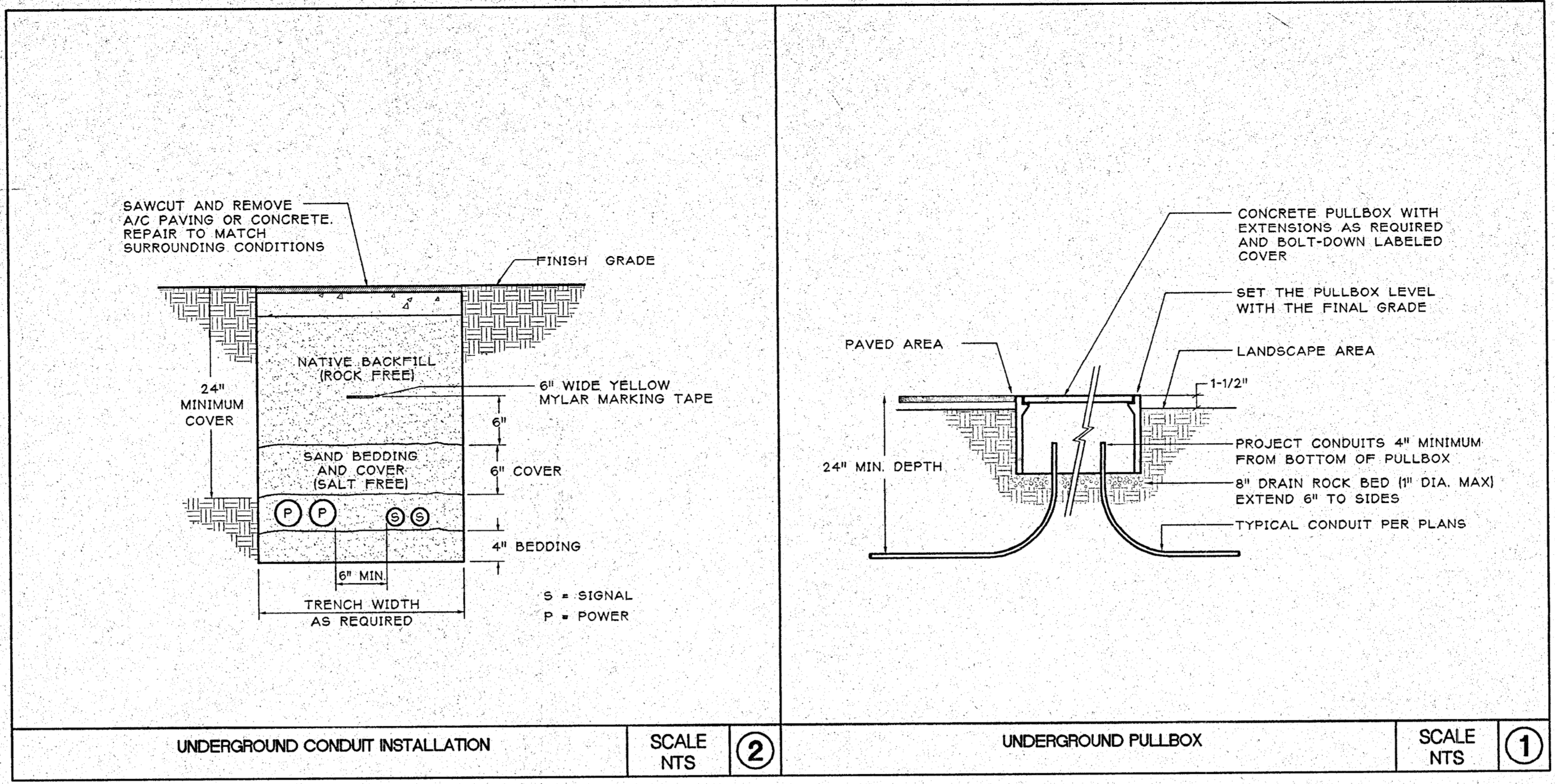
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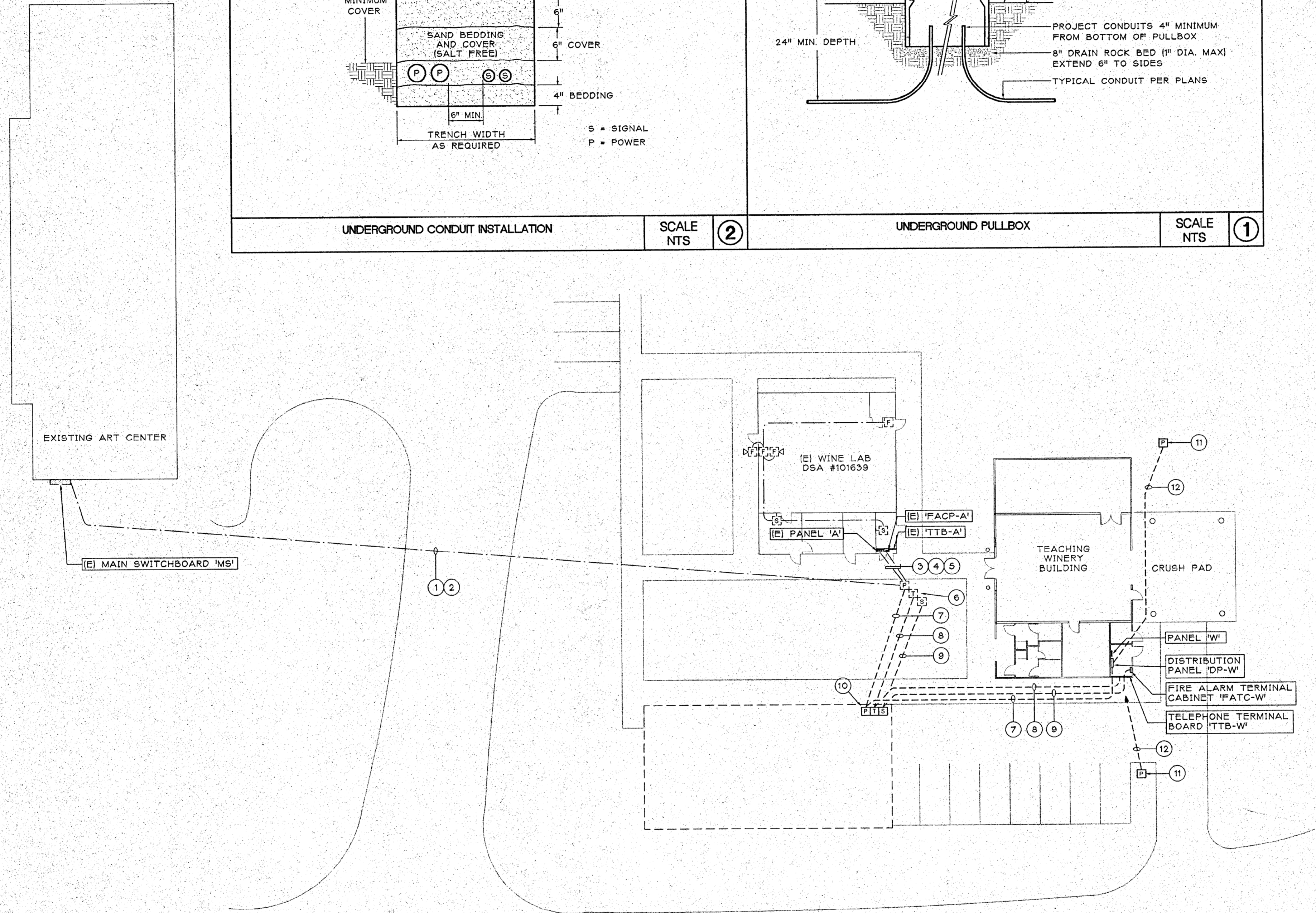
DONALD S. MACKY, A. I. A.
 1770 KING AVENUE
 NAPA, CALIFORNIA 94559 ARCHITECT
 CERTIFICATE NO. C 751

**NAPA VALLEY VINTNERS
 TEACHING WINERY
 Napa Valley College**
 Napa, California

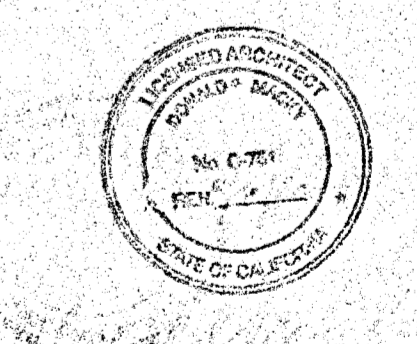


SHEET NOTES

- 1 INSTALL 4#500KCMIL & 1#2G IN (E) 4"CO
- 2 (E) 3#3/0 & 1#6G IN (E) 2"CO
- 3 POWER:
(E) 2" - 3#3/0 & 1#6G TO PANEL 'A'
- 4 SIGNAL:
INSTALL 8#12 IN (E) 1"CO (FA)
(E) 1"CO (SEC) TO REMAIN
- 5 TELCOM:
INSTALL 1 TEL25; INSTALL ADDITIONAL 1 TEL25 TO
WINERY
(E) 2 - 2"CO (TEL/DATA), 1"CO (EMS) AND 2"CO (TV)
TO REMAIN
- 6 (E) CHRISTY BOXES: POWER (N40), TELCOM (N40)
AND SIGNAL (N16)
- 7 4" - 4#500KCMIL & 1#2G
2-2"CO
1"CO (SITE LIGHTING)
- 8 1" 8#12 (FA)
2 - 1"CO (FA/SEC)
- 9 2" - 1 TEL25
3 - 2"CO (TEL/DATA/TV)
1 - 1"CO (EMS)
- 10 CHRISTY #N40: POWER
CHRISTY #N40: TELCOM
CHRISTY #N16: SIGNAL
- 11 CHRISTY #N8: SITE LIGHTING
- 12 1"CO, STUB OUT AT NORTH WALL OF ELEC. RM.
(SITE LIGHTING)



SITE PLAN
 SCALE: 1" = 20'



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 OFFICE OF REGULATION SERVICES
 APP # 01-103886
 FILE # 28-C1
 AC [initials] FLS [initials] SS [initials] [initials]
 DATE SEP 20 2001

SITE PLAN

DATE: JULY 26, 2001
 SCALE: 1" = 20'
 DRAWN BY: HM
 JOB: 00-107

E1.0



suite ELECTRICAL ENGINEERING
16

707 522 8175 (V)
 707 527 0212 (F)
 1400 N. DUTTON AVE. # 24
 SANTA ROSA, CA 95401
 a division of summit engineering, inc.

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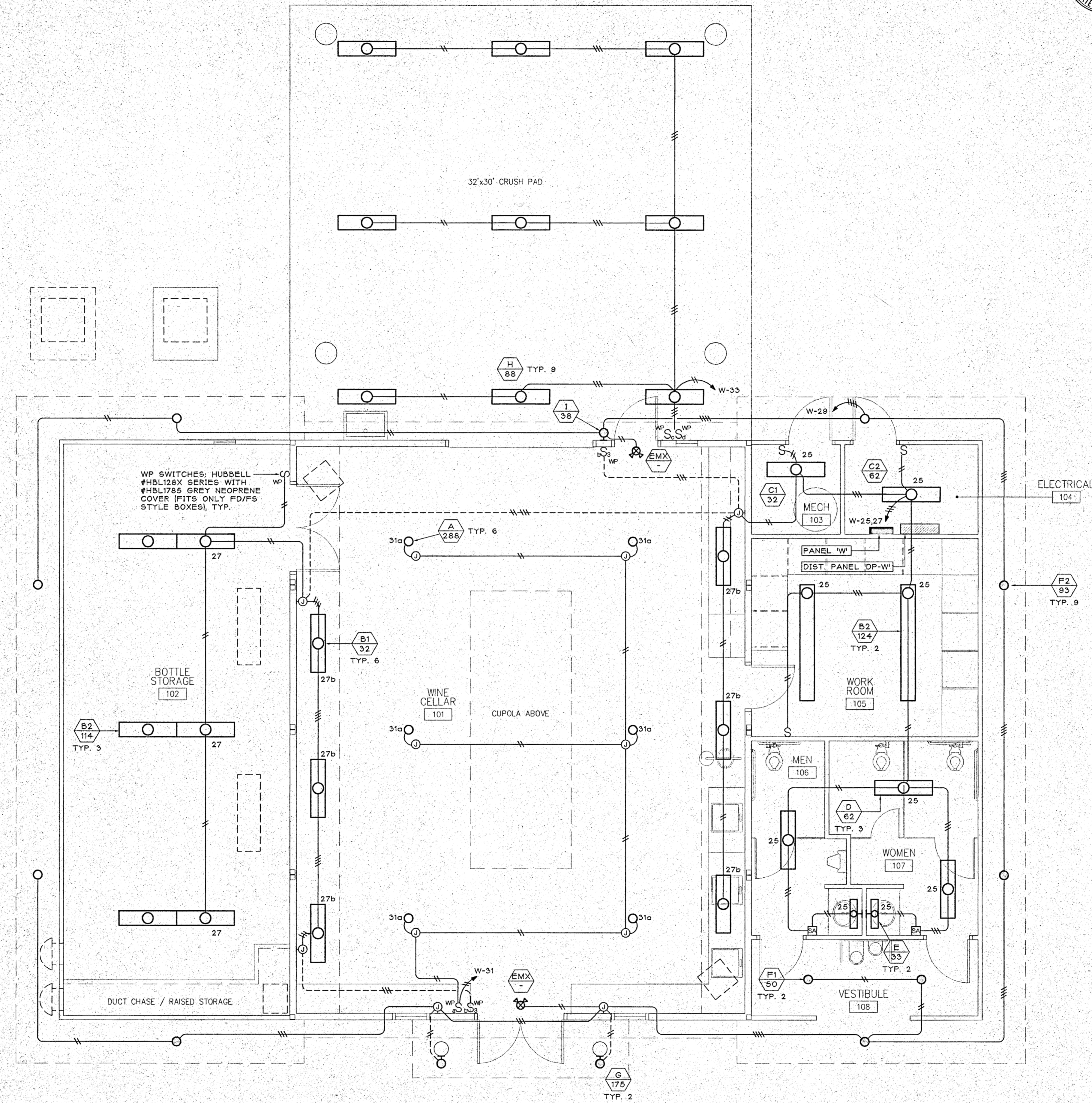
ARCHITERRA
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 SANTA ROSA, CA 95403
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REVISIONS

△
△
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△

DONALD S. MACKY, A. I. A.
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 CERTIFICATE NO. C 751

**NAPA VALLEY VINTNERS
 TEACHING WINERY**
Napa Valley College
 Napa, California



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



IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 APP # 01-103886
 FILE # 28-C1
 AC 108 FLS 10/11/01 SS
 DATE SEP 20 2001

LIGHTING PLAN

DATE: JULY 26, 2001
 SCALE: 1/4" = 1'-0"
 DRAWN BY: HM
 JOB: 00-107

E2.0

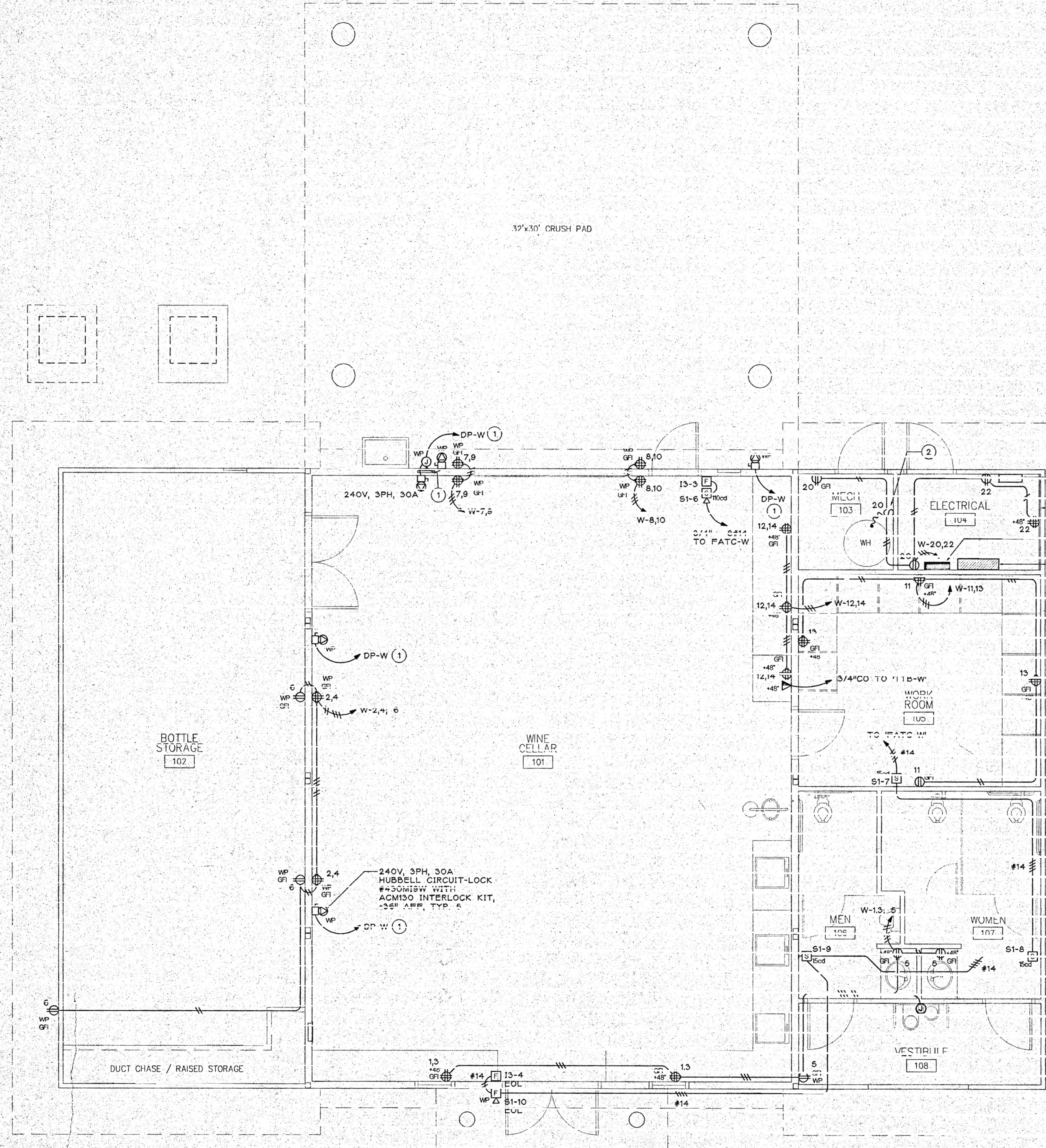


suite ELECTRICAL ENGINEERING
 101

707 522 8175 (V)
 1400 N. DUTTON AVE. # 24
 SANTA ROSA, CA 95401

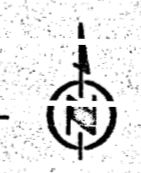
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 ARCHITECT
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OWNER'S RECORD DOCUMENT - FOR REFERENCE ONLY



- SHEET NOTES**
- 1/2" - 3#10 & #10G
 - PROVIDE DUPLEX RECEPTACLE IN LIEU OF DISCONNECT SWITCH IF REQUIRED FOR INSTALLED WATER HEATER.

POWER/TELCOM PLAN
 SCALE: 1/4"=1'-0"



IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 APP # 01-103886
 FILE # 28-C1
 AC VS FLS (1) SS
 DATE: 7/26/2001

NAPA VA. LEY VINTNERS
 TEACHING WINERY
Napa Valley College
 Napa, California

DONALD S. MACKY A.I.A.
 710 KINGS AVENUE
 NAPA, CALIFORNIA 94559 ARCHITECT
 CERTIFICATE NO. C 711

POWER/TELCOM PLAN

DATE: JULY 26, 2001
 SCALE: 1/4" = 1'-0"
 DRAWN BY: HM
 JOB: 00-107

CS

MECHANICAL EQUIPMENT CONTROL NOTES

A. Provide HVAC controls cabinet: 24"Hx24"Wx8"D NEMA 1 hinged cabinet with the following relays and contactors:

(6) IDEC relays: General-purpose DPDT relays with indicator light, 24V coil, and 10A contact rating; relays correspond to loads list below.

- 1 spare
- 2 Unit Heater UH-1: (1) IDEC relay for start/stop
- 3 Unit Heater UH-2: (1) IDEC relay for start/stop
- 4 Exhaust Fan EF-2: (1) IDEC relay for start/stop
- 5 Exhaust Fan EF-3: (1) IDEC relay for start/stop
- 6 Condensing Unit CU-1: (1) IDEC relay for start/stop via thermostat

(3) Square-D full voltage contactors: SQD #8502 SB02-V01, 3-pole size 0 contactor, 24V coil with separate control (Form S); contactors correspond to loads listed below.

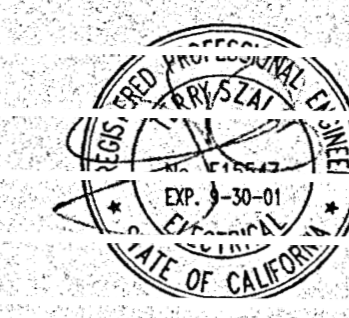
- 1 Unit Coil UC-1: (1) SQD contactor for start/stop
- 2 Unit Coil UC-2: (1) SQD contactor for start/stop
- 3 Electric Wall Heater EWH-1: (1) SQD contactor for on/off

(1) 4-pole SQD lighting contactor: SQD #8903 LO40-V01, 4-pole, 20A contacts, 24V coil.

- 1 Exterior lighting: (1) SQD lighting contactors for lighting control

B. Provide outlet boxes, conduit and line-voltage wiring between panels, relays/contactors and equipment.

C. Controls contractor (Comm Air) to provide EMS control panels, sensors, and low voltage wiring to sensors and relays/contactors.



suite ELECTRICAL ENGINEERING

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OWNER'S RECORD DOCUMENT - FOR REFERENCE ONLY

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CERTIFICATE NO. C 71

NAVA VALLEY VINTNERS
TEACHING WINERY
Napa Valley College
Napa California

MECHANICAL
EQUIPMENT
PLAN

DATE: JULY 26, 2001

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

DRAWN BY: HM

15 00 07

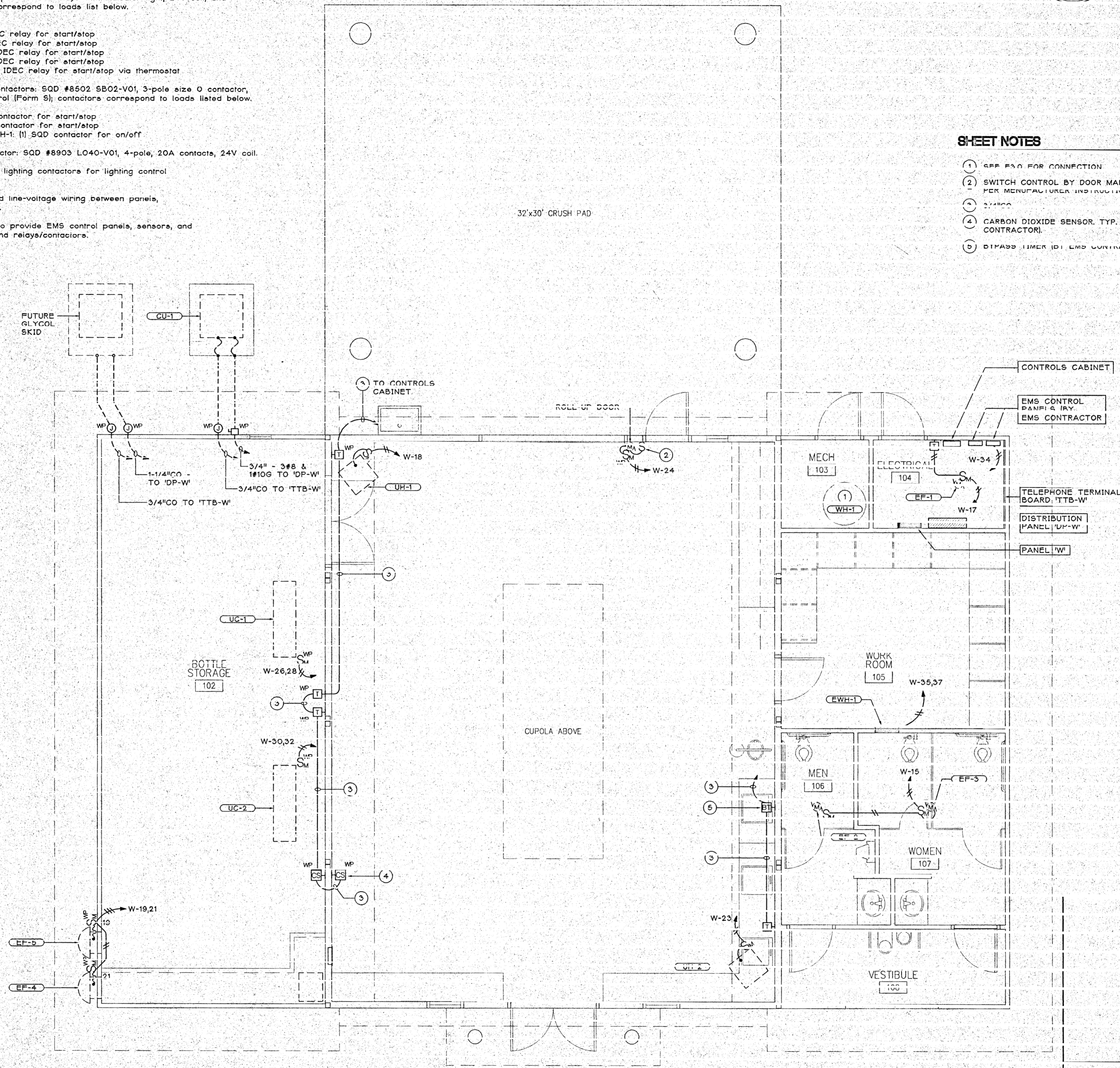
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DATE SEP 20 2001

140

SHEET NOTES

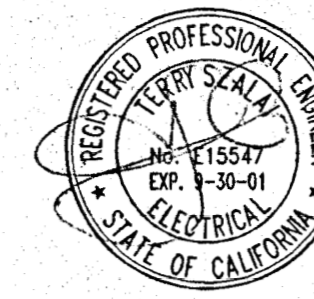
- 1 SEE P&I FOR CONNECTION
- 2 SWITCH CONTROL BY DOOR MANUFACTURER; INSTALL PER MANUFACTURER INSTRUCTIONS.
- 3 24VDC
- 4 CARBON DIOXIDE SENSOR, TYP. 2 (BY EMS CONTRACTOR).
- 5 DIPASS TIMER (BY EMS CONTRACTOR)



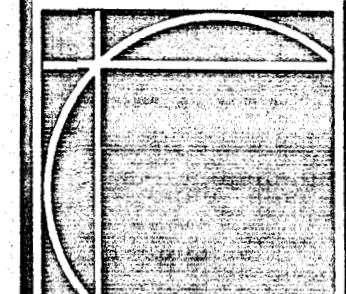
MECHANICAL EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"



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FILE # 28-C1
DATE SEP 20 2001



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REVISIONS

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NAPA VALLEY VINTNERS
TEACHING WINERY
Napa Valley College
Napa, California

SINGLE LINE
DIAGRAM, PANEL
SCHEDULE AND
FIRE ALARM DETAILS

DATE: JULY 26, 2001

SCALE: AS NOTED

DRAWN BY: HM

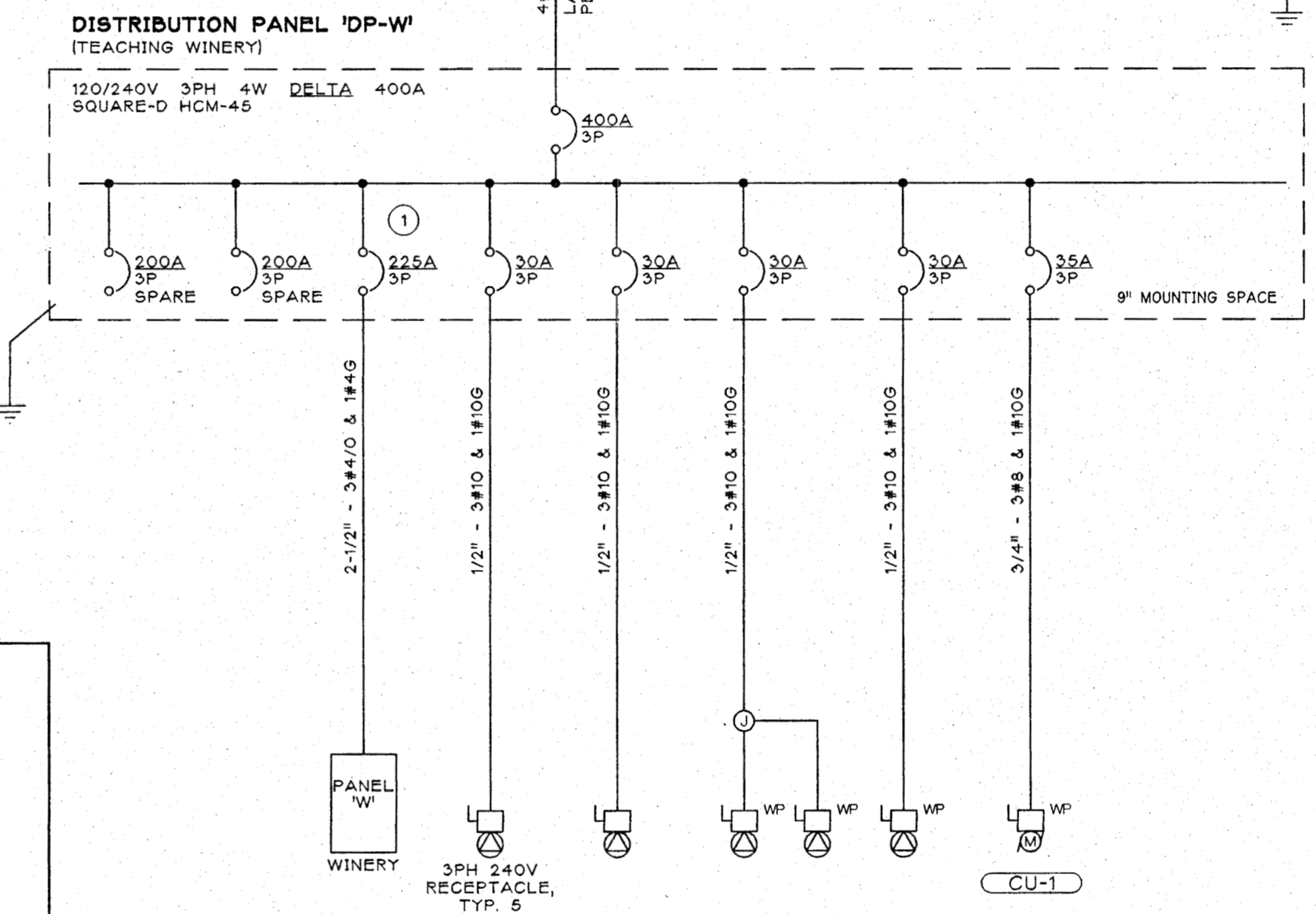
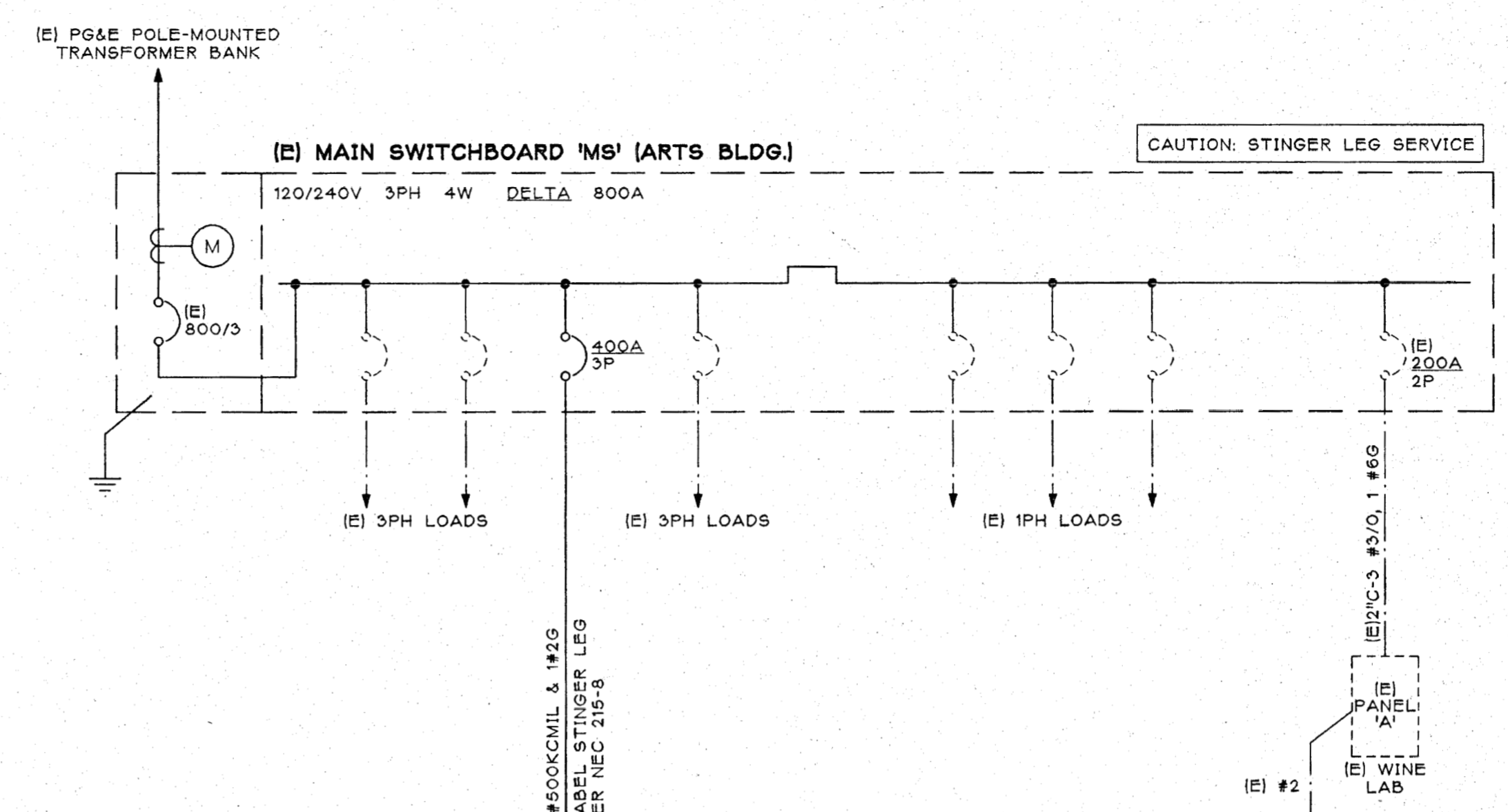
JOB: 00-107

E5.0

PANEL: W		VOLTAGE: 240 / 120V 1PH 3W		ENCLOSURE: NEMA 1		ISSUE DATE: 8-1-01								
PROJECT: NYC TEACH WINERY		SUB RATING: 225 A		MOUNTING: SURFACE		BY: TS								
LOCATION: ELEC ROOM		MAINS RATING: 225 MLO												
		KAIC RATING: 10 KAIC												
CKT	TRIP	POLE	CODE	LOAD DESCRIPTION	LOAD	A	B	C	LOAD	LOAD DESCRIPTION	CODE	TRIP	POLE	CKT
1	20	1	R	RECEPS WINERY	360	720			360	RECEPS WINERY	R	20	1	2
3	20	1	R	WINERY	360			720	360	WINERY	R	20	1	4
5	20	1	R	RESTROOMS	360	900			540	WINERY	R	20	1	6
7	20	1	R	WINERY	360			720	360	WINERY	R	20	1	8
9	20	1	R	WINERY	360	720			360	WINERY	R	20	1	10
11	20	1	R	WCRM	540			1080	540	WINERY	R	20	1	12
13	20	1	R	WCRM	720	1260			540	WINERY	R	20	1	14
15	15	1	M	EF-2 AND EF-3 (RR'S)	200			380	180	WINERY	R	20	1	16
17	15	1	M	EF-1 (ELEC RM)	100	256			156	JH-1	R	15	1	18
19	15	1	M	EF-4	760			940	180	RECEPS MECH/ELEC	R	20	1	20
21	15	1	M	EF-5	760	940			180	MECH/ELEC	R	20	1	22
23	15	1	M	UH-2	156			916	760	ROLLUP DOOR	M	15	1	24
25	20	1	C	LIGHTING ELEC, WKM, RR	604	1984			1380	UC-1	M	30	2	26
27	20	1	C	WINERY	74			2094	1380	UC-1	M	30	2	28
29	20	1	C	EXTERIOR	925	2305			1380	UC-2	M	30	2	30
31	20	1	C	WINERY	1728			3108	1380	UC-2	M	30	2	32
33	20	1	C	CRUSH PAD	792	992			200	EMS PANEL	C	20	1	34
35	15	2	C	EWH-1	1000			1000		SPARE	R	20	1	36
37	-	-	C							SPARE				38
39	20	1	SPARE							SPARE				40
41	20	1	SPARE							SPARE				42
				VA	11077			10958						
				AMPS	92			91						

PANEL NOTES:
CAUTION - STINGER LEG SERVICE
CONNECT ONLY 120V PHASE LEGS

CKT CODE	LOAD TYPE AND NEC DEMAND FACTORS	FNL W	SUB FNL	SUB FNL	CON TIL	DEM 60B	DEM 80B
C	CONTINUOUS LOADS	7.0			7.0	8.7	
N	NON-CONTINUOUS LOADS	0.0			0.0	0.0	
R	RECEPTACLE LOADS	6.8			6.8	6.8	
M	MOTOR LOADS	8.3			8.3	8.9	
	LARGEST MOTOR KVA	2.8			2.8		
K	KITCHEN LOADS	0.0			0.0	0.0	
	NUMBER OF APPLIANCES	0			0		
TOTAL CONNECTED KVA				22			
TOTAL DEMAND KVA				245			
TOTAL DEMAND AMPS				102			

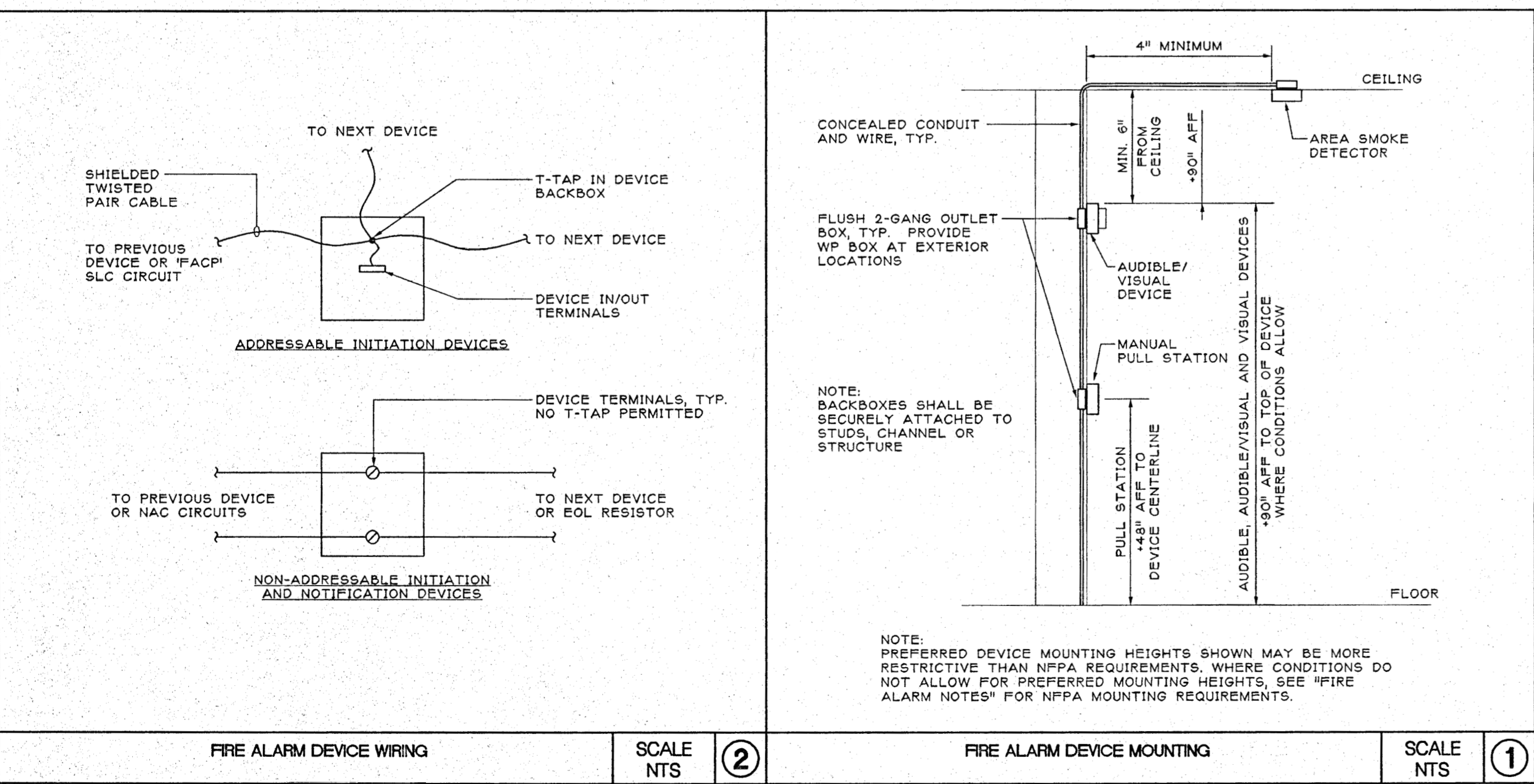


SHEET NOTES

- 1 CONNECT 120V PHASES, LABEL SPARE PHASES AT BREAKER.

SINGLE LINE DIAGRAM

NOT TO SCALE



FIRE ALARM DEVICE WIRING

SCALE NTS ②

FIRE ALARM DEVICE MOUNTING

SCALE NTS ①



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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APP # 01-103886
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AC FLS SS
DATE SEP 20 2001

FIRE ALARM SYSTEM NOTES

A. PROJECT SCOPE

1. ADD NEW FIRE ALARM DEVICES IN THE TEACHING WINERY BUILDING TO THE EXISTING LOCAL FIRE ALARM SYSTEM.

B. FIRE ALARM SYSTEM DESCRIPTION

1. THE FIRE ALARM SYSTEM CONSISTS OF CLASS B MANUAL, ADDRESSABLE INITIATION CIRCUITS AND CLASS B, STYLE Y NOTIFICATION APPLIANCE CIRCUITS.
2. NON-ADDRESSABLE INITIATION DEVICES HAVE BEEN ZONED BY FLOOR AND/OR WING AND ARE SUBJECT TO DSA APPROVAL.
3. THE FIRE ALARM SYSTEM PRODUCES THE CALIFORNIA UNIFORM AUDIBLE SIGNAL IN TEMPORAL MODE; THE AUDIBLE DEVICES SHALL BE SYNCHRONIZED.
4. FIRE ALARM VISUAL DEVICES SHALL BE SYNCHRONIZED TO FLASH SIMULTANEOUSLY. THE RATE OF FLASH SHALL BE NO LESS THAN ONE FLASH EVERY SECOND (1HZ) AND NO GREATER THAN TWO FLASHES EVERY SECOND (2HZ).
5. THE DESIGN OF THE FIRE ALARM SYSTEM MEETS ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES, 1994, SECTION 2.2, FOR EQUIVALENT FACILITATION OF STROBES.

C. FIRE ALARM SYSTEM SUBMITTALS AND SUBSTITUTIONS

1. THE FIRE ALARM SYSTEM HAS BEEN DESIGNED WITH THE EQUIPMENT DATA SUPPLIED BY THE SPECIFIED MANUFACTURERS AS REQUIRED FOR COMPLETE SYSTEM APPROVAL BY DSA.
2. INSTALLATIONS MEETING THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS REQUIRE A SUBMITTAL OF FIRE ALARM CUT SHEETS ONLY TO SHOW COMPLIANCE WITH THE SPECIFIED EQUIPMENT.
3. PROPOSED SUBSTITUTIONS OF FIRE ALARM SYSTEM COMPONENTS SHALL MEET THE GENERAL REQUIREMENTS OF THIS CONTRACT, AND REQUIRE A COMPLETE SUBMITTAL FOR REVIEW BY THE ARCHITECT AND PROCESSING OF A CHANGE ORDER BY DSA. INSTALLATION OF PROPOSED SUBSTITUTIONS SHALL NOT BEGIN UNTIL ALL ABOVE REQUIREMENTS ARE MET.

D. MATERIALS AND EQUIPMENT

1. PROVIDE WATERPROOF COUPLINGS AND CONNECTIONS FOR UNDERGROUND CONDUIT.
2. PROVIDE THHW OR THWN RATED CONDUCTORS WHERE INSTALLED IN WET LOCATIONS TO COMPLY WITH CEC 3-310(B).

E. INSTALLATION REQUIREMENTS

1. ALL FIRE ALARM COMPONENTS SHALL BE CSFM LISTED FOR THEIR USE, INCLUDING EXTERIOR DEVICES FOR WET LOCATIONS.
2. THE AUDIBLE ALARM LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE SOUND LEVEL IN ALL OCCUPIABLE AREAS, AND NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 110 dBA IN ANY AREA. MAKE ADJUSTMENTS TO THE DEVICE AUDIBLE LEVELS TO THE SATISFACTION OF THE LOCAL FIRE AUTHORITY AND THE DSA INSPECTOR OF RECORD.

3. WHERE A NEW FIRE ALARM ANNUNCIATION PANEL (FAAP) IS SHOWN ON THE DRAWINGS, ITS INSTALLED LOCATION SHALL MEET THE APPROVAL OF THE LOCAL FIRE AUTHORITY. A SIGNED AND/OR STAMPED SITE OR FLOOR PLAN SHALL BE SUBMITTED TO VERIFY THIS APPROVAL.

4. WHERE REQUIRED BY CODE, ANY HVAC SYSTEMS IN EXCESS OF 2000 CUBIC FEET PER MINUTE (CFM) SHALL BE SHUT DOWN UPON DETECTION OF SMOKE IN SYSTEM DUCTS, WITH AN CORRESPONDING ALARM SIGNAL SENT TO THE FIRE ALARM CONTROL PANEL. SEE THE MECHANICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS.

5. FIRE ALARM SYSTEM DEVICE NOMINAL MOUNTING HEIGHT: +48" AFF TO CENTERLINE

6. FIRE ALARM AUDIBLE, VISUAL AND COMBINATION AUDIBLE/VISUAL NOTIFICATION DEVICE MOUNTING HEIGHTS: +90" AFF TO TOP OF DEVICE, BUT NOT LESS THAN 6" FROM CEILING.

THIS MOUNTING HEIGHT IS INTENDED TO BE A UNIFORM INSTALLED HEIGHT FOR ALL NOTIFICATION DEVICES WHERE CONDITIONS ALLOW, AND MAY BE MORE RESTRICTIVE THAN THE NFPA REQUIREMENTS, WHERE CONDITIONS DO NOT ALLOW A UNIFORM MOUNTING HEIGHT, INSTALL PER THE FOLLOWING NFPA REQUIREMENTS:

- a) FIRE ALARM AUDIBLE DEVICE: +90" AFF MINIMUM TO TOP OF DEVICE WHERE CEILING HEIGHT ALLOWS, BUT NOT LESS THAN 6" FROM THE CEILING.
- b) FIRE ALARM VISUAL OR COMBINATION AUDIBLE/VISUAL DEVICE: 90" AFF MINIMUM TO BOTTOM OF VISUAL LENS, +96" AFF MAXIMUM TO TOP OF VISUAL LENS.

F. CLOSEOUT

1. UPON COMPLETION OF THE SYSTEM INSTALLATION, CONTACT THE DSA INSPECTOR OF RECORD (IOR) AND THE LOCAL FIRE AUTHORITY FOR INSPECTION. PROVIDE A COMPLETE TEST OF THE SYSTEM PER NFPA 72 TABLE 7-2.2 IN THE PRESENCE AND TO THE SATISFACTION OF THE DSA IOR AND THE LOCAL FIRE AUTHORITY. (NOTE THAT THE LOCAL FIRE AUTHORITY MAY ATTEND AT THEIR DISCRETION)
2. SUBMIT A RECORD OF COMPLETION PER NFPA SECTION 7.5.2.2 AND FIGURE 7.5.2.2.
3. WARRANT THE COMPLETE SYSTEM INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE CERTIFIED SYSTEM TEST. PROVIDE A MINIMUM OF TWO INSPECTIONS AND TESTS DURING THIS WARRANTY PERIOD PER THE CRITERIA OF NFPA 72H.

PANEL (E) FIRE ALARM CONTROL PANEL 'FACP' LOCATION (E) WINELAB ELECTRICAL CLOSET MOUNTING SURFACE SYSTEM VOLTAGE (V): 24											
PROJECT: NAPA VALLEY COLLEGE TEACHING WINERY ISSUE DATE: 08-01-00 ISSUED BY: TS											
VOLTAGE DROP CALCULATIONS											
Circuit #	81	81-1	81-2	81-3	81-4	81-5	81-6	81-7	81-8	81-9	81-10
device #	e15	e15	e15	e15	e15	e15	e15	e15	e15	e15	e15
device type	15cd	15cd	15cd	15cd	15cd	15cd	15cd	15cd	15cd	15cd	15cd
device current (A)	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
wire size (AWG)	#14	#14	#14	#14	#14	#14	#14	#14	#14	#14	#14
one-way distance to device (ft)	5	15	30	45	60	75	90	105	120	135	150
subtotal current at device (A)	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275
voltage at device (V)	24.0	23.9	23.8	23.7	23.6	23.5	23.4	23.3	23.2	23.1	23.0
voltage drop at device (%)	0.00%	0.04%	0.08%	0.12%	0.16%	0.20%	0.24%	0.28%	0.32%	0.36%	0.40%

BATTERY CALCULATIONS											
Circuit #	82	82-1	82-2	82-3	82-4	82-5	82-6	82-7	82-8	82-9	82-10
device #	e15	e15	e15	e15	e15	e15	e15	e15	e15	e15	e15
device type	15cd	15cd	15cd	15cd	15cd	15cd	15cd	15cd	15cd	15cd	15cd
device current (A)	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
wire size (AWG)	#14	#14	#14	#14	#14	#14	#14	#14	#14	#14	#14
one-way distance to device (ft)	5	15	30	45	60	75	90	105	120	135	150
subtotal current at device (A)	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275
voltage at device (V)	24.0	23.9	23.8	23.7	23.6	23.5	23.4	23.3	23.2	23.1	23.0
voltage drop at device (%)	0.00%	0.04%	0.08%	0.12%	0.16%	0.20%	0.24%	0.28%	0.32%	0.36%	0.40%

STANDBY MODE						ALARM MODE					
COMPONENT	CURRENT (A)	QTY.	SUBTOTAL CURRENT (A)	COMPONENT	CURRENT (A)	QTY.	SUBTOTAL CURRENT (A)				
CONTROL PANEL	0.088	1	0.088	CONTROL PANEL	0.088	1	0.088				
ANNUNCIATOR DRIVER	0.019	1	0.019	ANNUNCIATOR DRIVER	0.019	1	0.019				
SMOKE DETECTORS	0.0001	1	0.0001	SMOKE DETECTORS	0.100	1	0.100				
DUCT SMOKE DETECTORS	0.0002	1	0.0002	DUCT SMOKE DETECTORS	0.100	1	0.100				
END-OF-LINE RELAYS	0.020	2	0.040	END-OF-LINE RELAYS	0.004	2	0.008				
				NAC CIRCUIT #1	0.591	1	0.591				
				NAC CIRCUIT #2	0.025	1	0.025				
TOTAL STANDBY CURRENT			0.157 A	TOTAL ALARM CURRENT			0.973 A				

BATTERY REQUIREMENTS	
STANDBY TIME REQUIRED (HOURS)	24 HOURS
STANDBY POWER = 0.157A x 24 HRS =	3.78 AMP-HOURS
ALARM TIME REQUIRED (MINUTES)	5 MIN = 0.083 HOURS
ALARM POWER = 0.973A x 0.083 HRS =	0.08 AMP-HOURS
SUBTOTAL POWER REQUIRED =	3.86 AMP-HOURS
BATTERY DE-rating - 120%	x 1.2
TOTAL POWER REQUIRED	4.63 AMP-HOURS
	EXISTING 70AH BATTERIES OK

FIRE ALARM SYSTEM COMPONENT LIST NAPA VALLEY COLLEGE TEACHING WINERY					
SYMBOL	MANUFACTURER	MODEL #	DESCRIPTION	CATALOG NUMBER	LISTING INFORMATION
HSL	WHEELLOCK	R55-2415W-FR	VISUAL STROBE - 15cd, WALL-MOUNT, SYNC/NON-SYNC	7125-0785.141	June 30, 2002
HSD	WHEELLOCK	NS-2410W-FR	HORN-STROBE - 110cd, SYNC/NON-SYNC, 2-WIRE	7125-0785.142	June 30, 2002
HSA	WHEELLOCK	A11-24WDR	AUDIBLE HORN - WEATHERPROOF, SYNC/NON-SYNC	7125-0785.131	June 30, 2002
F	FIRELITE	BG-12L	MANUAL PULLSTATION - NON-ADDRESS, INDOOR, KEYED	7150-0075.184	June 30, 2002

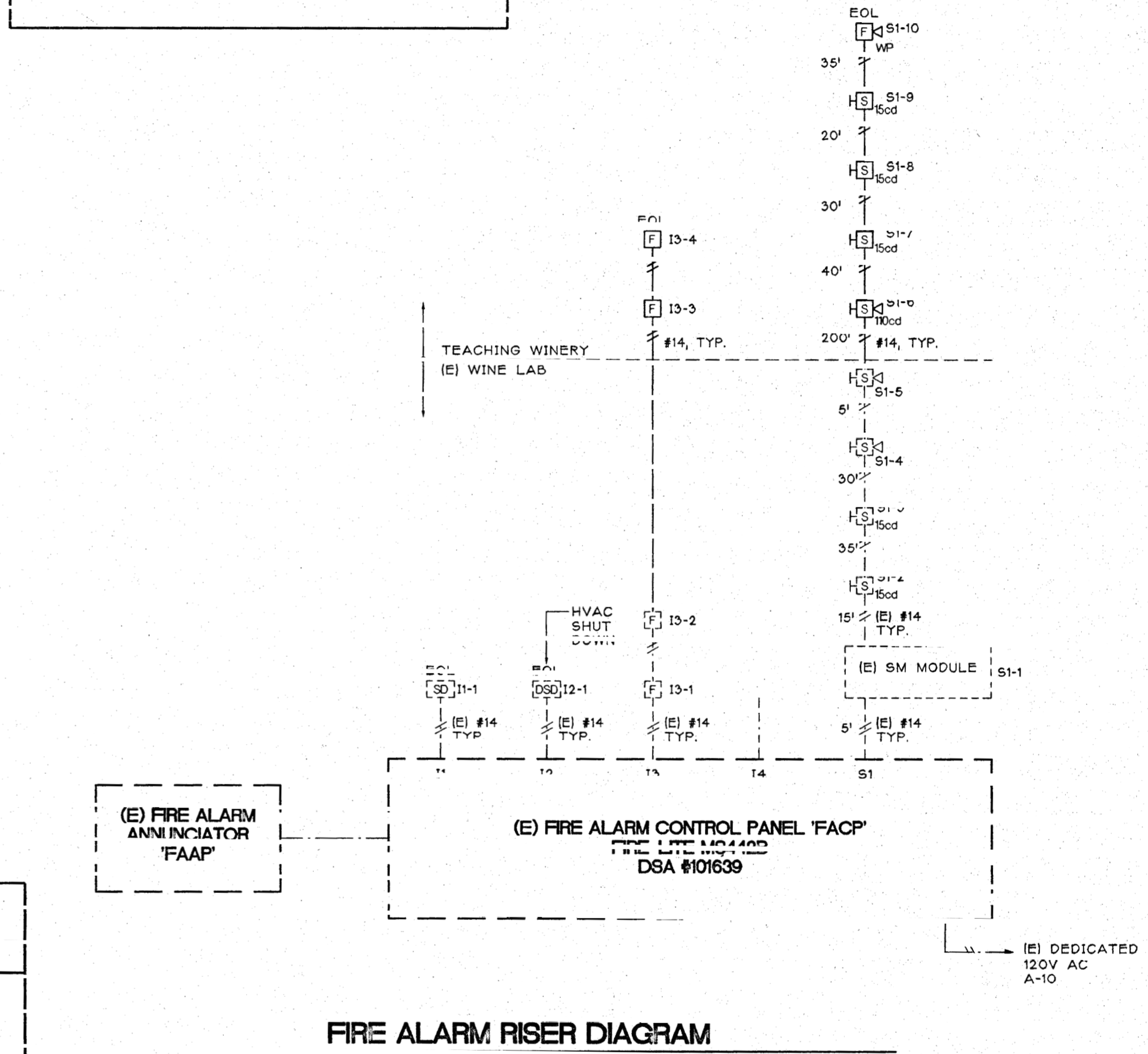
FIRE ALARM SEQUENCE OF OPERATION MATRIX								
RESPONSE	ACTIVATION OF INITIATION DEVICES			MALFUNCTIONS				
	MANUAL PULL STATION	WIRE SWIRE OR HEAT DETECTION	DUCT SMOKE DETECTOR	INITIATION CIRCUIT(S)	NOTIFICATION APPLIANCE CIRCUIT(S)	FIRE ALARM CONTROL PANEL (FACP)	FIRE ALARM ANNUNCIATOR PANEL (FAAP)	POWER FAILURE
ANNUNCIATE AT FIRE ALARM CONTROL PANEL (FACP)	X	X	X	X	X	X	X	X
ANNUNCIATE AT FIRE ALARM ANNUNCIATOR PANEL (FAAP)	X	X	X	X	X	X	X	X
ACTIVATE AUDIBLE/VISUAL DEVICES IN ALL AREAS	X	X	X	X	X	X	X	X
SHUTDOWN OF APPLICABLE HVAC EQUIPMENT AND MOTORIZED DAMPERS	X	X	X	X	X	X	X	X
FACILITY PERSONNEL TO NOTIFY FIRE DEPARTMENT	X	X	X	X	X	X	X	X

- ### SEQUENCE OF OPERATION NOTES
1. ACTIVATION OF ANY INITIATION DEVICE WILL PLACE THE FIRE ALARM CONTROL PANEL IN ALARM MODE AND WILL ACTIVATE ALL NOTIFICATION APPLIANCES. THE FIRE ALARM CONTROL PANEL SHALL DISPLAY THE ZONE (NON-ADDRESSABLE) OR DEVICE (ADDRESSABLE) OF THE ACTIVATED INITIATION DEVICE(S).
 2. UPON ALARM CONDITION, AUTHORIZED SCHOOL PERSONNEL SHALL NOTIFY THE FIRE DEPARTMENT AND INITIATE EVACUATION OF STUDENTS AND FACULTY AS PER THE SCHOOL'S EVACUATION PLAN.
 3. WHEN THE PANEL IS IN ALARM CONDITION, THE NOTIFICATION APPLIANCES MAY BE DEACTIVATED (SILENCED) AT THE FIRE ALARM CONTROL PANEL. ACTIVATION OF ANOTHER INITIATION DEVICE WILL PLACE THE CONTROL PANEL BACK IN ALARM CONDITION AND WILL AGAIN ACTIVATE ALL NOTIFICATION APPLIANCES.
 4. FAILURE OF THE FIRE ALARM SYSTEM COMPONENTS, WIRING OR POWER SUPPLY SHALL PLACE THE FIRE ALARM CONTROL PANEL IN TROUBLE CONDITION, RESULTING IN AN AUDIBLE AND VISUAL (LED) ALARM AT THE FIRE ALARM CONTROL PANEL ONLY. THE AUDIBLE ALARM MAY BE SILENCED AT THE CONTROL PANEL, BUT THE VISUAL ALARM WILL REMAIN ACTIVE UNTIL THE FAILED CONDITIONS ARE CORRECTED AND CLEARED.
 5. UPON TROUBLE CONDITION, AUTHORIZED SCHOOL PERSONNEL SHALL NOTIFY THE AUTHORIZED TECHNICIAN TO CORRECT THE TROUBLE CONDITION.

VOLTAGE DROP FORMULAS	
$V_d = 2 \times L \times I \times R$	
$V_d\% = V_d / V_s$	
V_d = volts dropped (V)	
L = length (feet)	
I = current (amps)	
R = resistance (ohms)	
V_s = system voltage (V)	

CONDUCTOR RESISTANCE	
NEC TABLE 8, VAMP	2, 7000000
AWG	R (ohms)
#12	1.93
#14	3.07

FIRE ALARM COMPONENT DATA			
DESCRIPTION	RATED AMPS	NOTES	QTY.
e15 air existing 15cd strobe	0.050	hi dBA setting	2
e15 horn existing interior horn	0.024	hi dBA setting	1
e15 horn existing exterior horn	0.041	w/o audible silence	1
e15 horn existing sync module	0.025	w/o audible silence	1
e15 (e) end-of-line relay	0.020		2
1b air 15cd strobe	0.050		2
110 horn 110cd horn-strobe	0.185	hi dBA setting	1
110 horn 110cd horn-strobe	0.041	w/o audible silence	1



FIRE ALARM RISER DIAGRAM
NOT TO SCALE

suite ELECTRICAL ENGINEERING

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707 522 8175 (F)

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OWNER'S RECORD DOCUMENT - FOR REFERENCE ONLY

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NAPA, CALIFORNIA 94558
ARCHITECT
CE (TYP) DATE NO. C-151

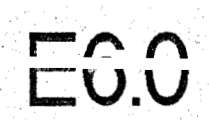
NAPA VALLEY WINNERS
TEACHING WINERY
Napa Valley College
Napa, California

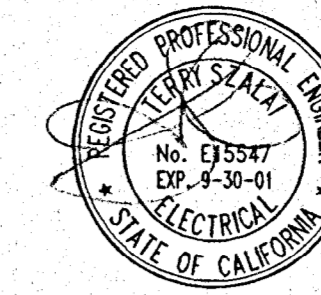
FIRE ALARM RISER
DIAGRAM, NOTES AND
CALCULATIONS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF INSURANCE SERVICES

FILE # 28-C1
DATE SEP 20 2001

DATE: 08/01/00
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NO: 00-107





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REVISIONS

1. SEPT 28, 2001

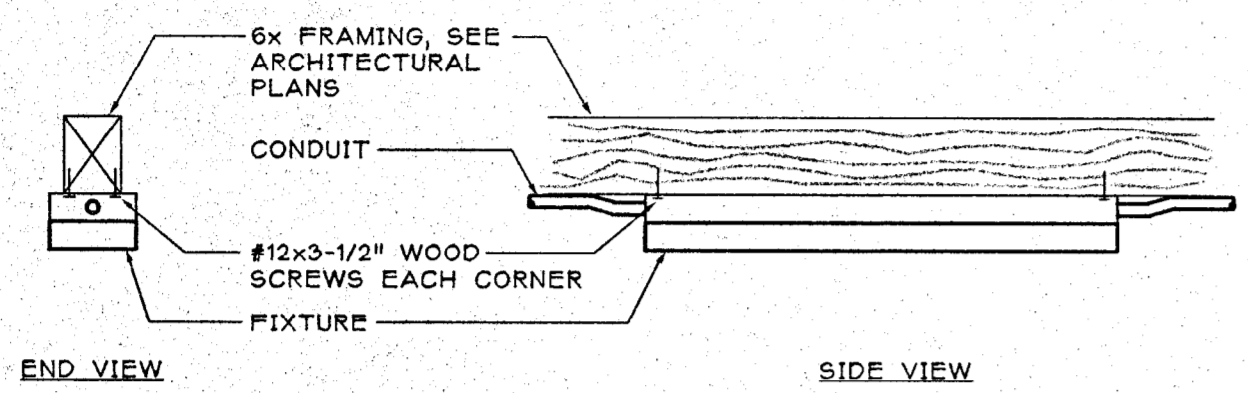
DONALD S. MACKY, A. I. A.
 1770 KING AVENUE ARCHITECT
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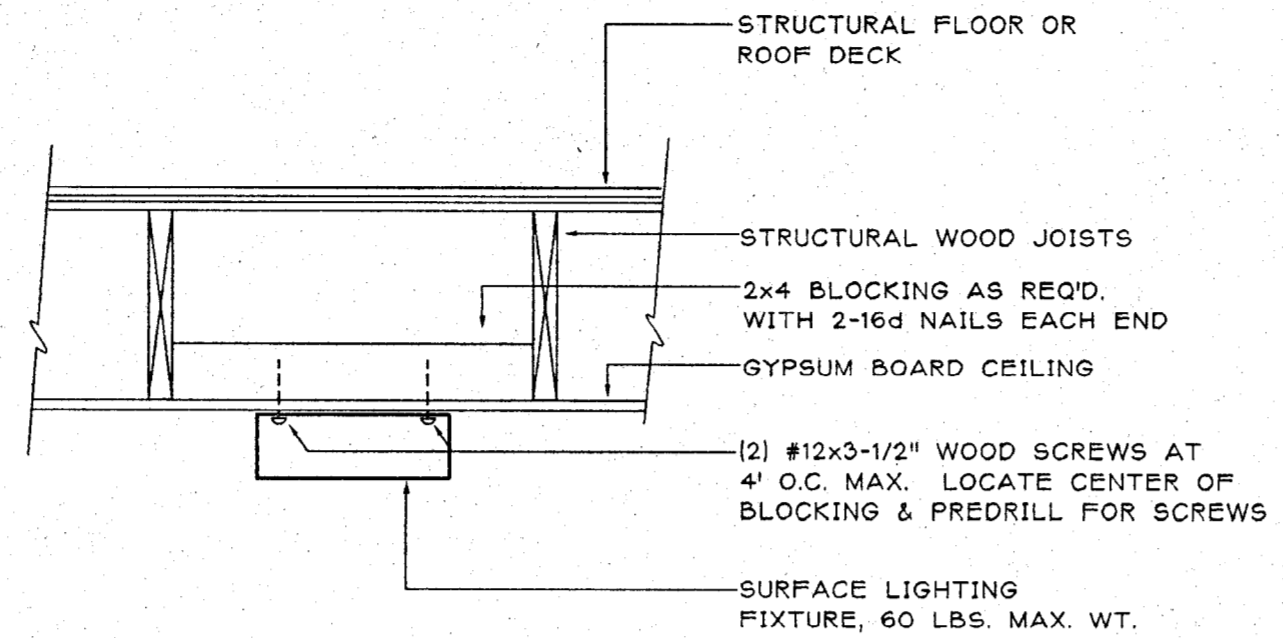
DETAILS

DATE: JULY 26, 2001
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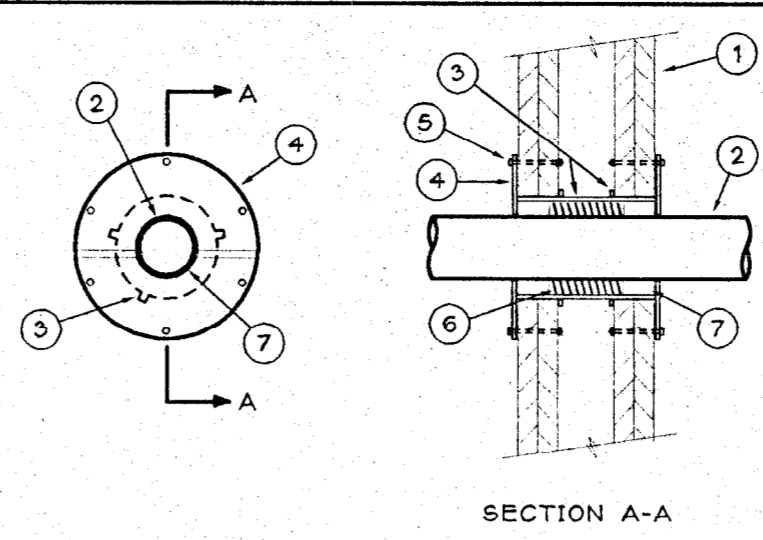
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SURFACE FIXTURE AT OPEN WOOD FRAMING SCALE NTS 9

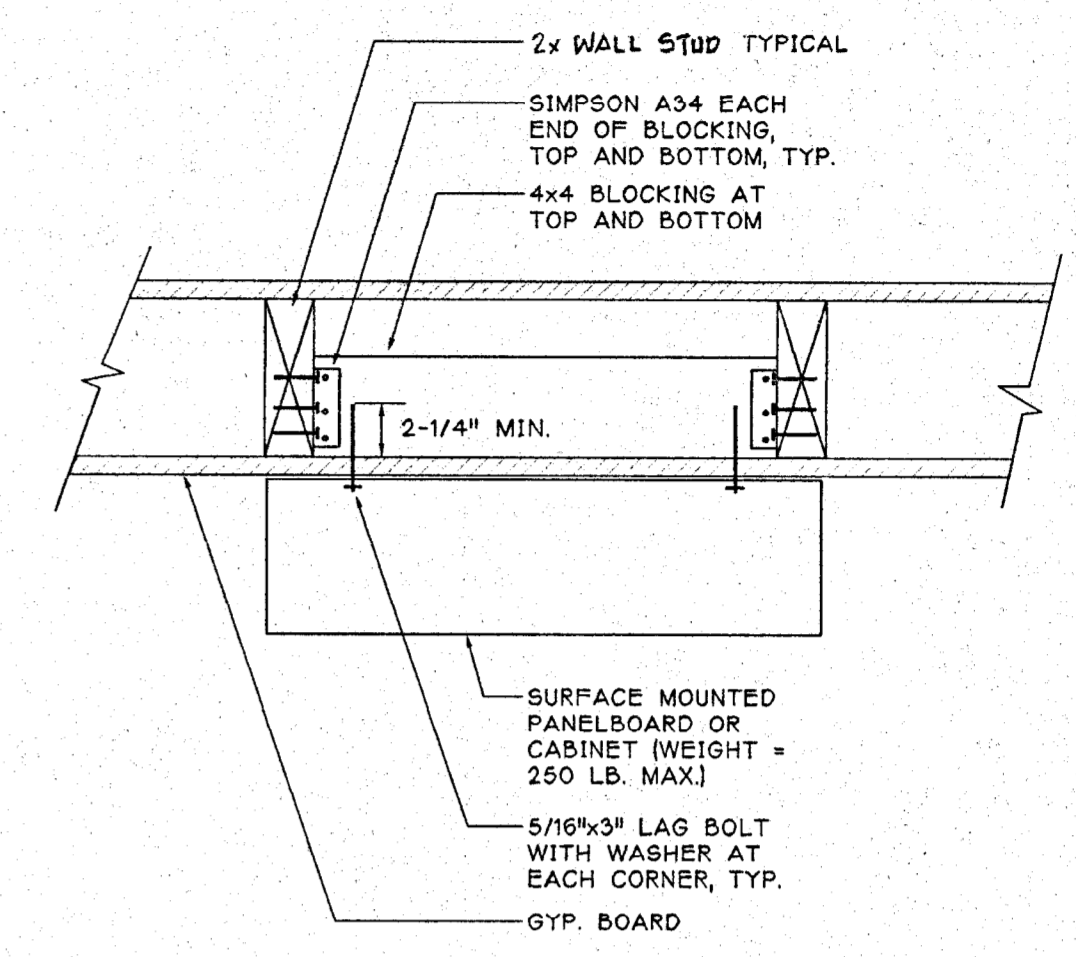


SURFACE FIXTURE AT WOOD FRAMING, GYP. BOARD CEILING SCALE NTS 6

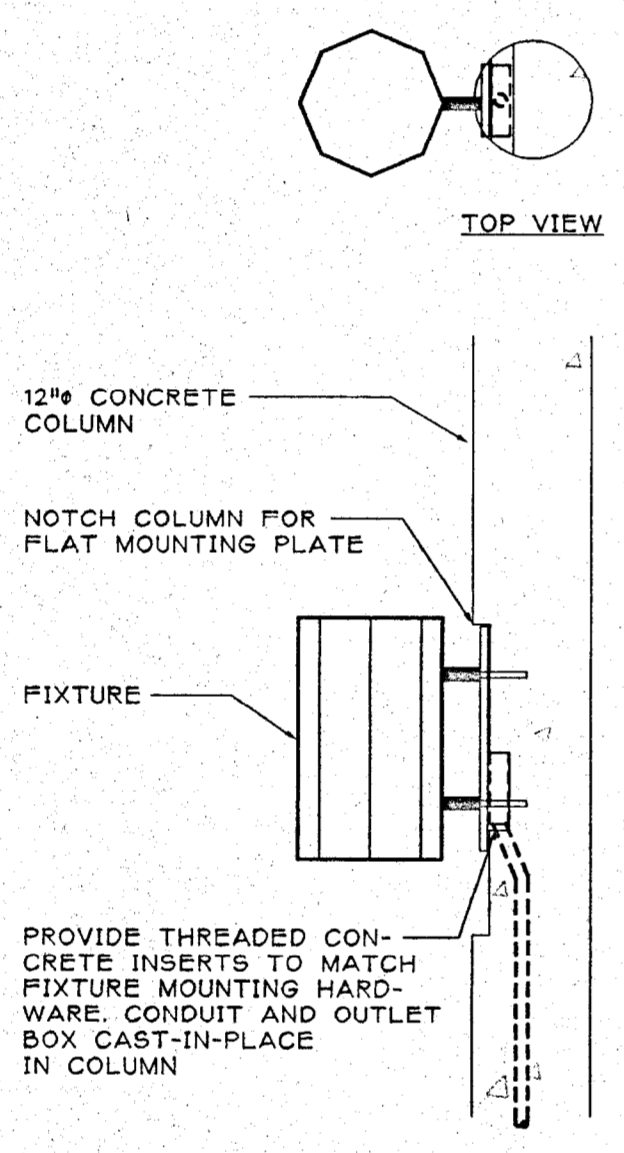


- 1 WALL ASSEMBLY - FIRE RATED GYPSUM WALLS.
 - 2 CONDUIT PENETRATION
 - 3 STEEL SLEEVE - NOMINAL 5" LONG CYLINDRICAL, 0.016" ISO GAUGE GALVANIZED STEEL, WITH 6 NOMINAL 3/4" x 3/4" LONG TABS TO SECURE SLEEVE TO INTERNAL SURFACES OF GYPSUM WALL, AND ONE 2" WIDE END TAB TO SECURE SLEEVE TOGETHER.
 - 4 TRIM RING - NOMINAL 8" DIAMETER, 0.016" ISO GAUGE GALVANIZED STEEL, TWO SECTIONS PER SIDE OF WALL, OVERLAPPED MINIMUM 1/2". INSTALLED AFTER NELSON FSP PUTTY AND MINERAL WOOL OR CERAMIC FIBER IS PACKED IN SLEEVE. SECURED TO WALL WITH SIX ANCHOR BOLTS.
 - 5 5/16" D. x 2" LONG ANCHOR BOLTS
 - 6 MINERAL WOOL OR CERAMIC FIBER - MINIMUM 6 PCF TIGHTLY PACKED TO A DEPTH OF 3" BETWEEN FSP PUTTY.
 - 7 NELSON FSP PUTTY - PACKED TO A MINIMUM DEPTH OF 1" ON EACH SIDE OF MINERAL WOOL OR CERAMIC FIBER.
- NOTE: ASSEMBLY MUST HAVE UL & WL 1001 LISTINGS.
 1 HR. RATING (F + T RATING) - 2" MAX. PIPE

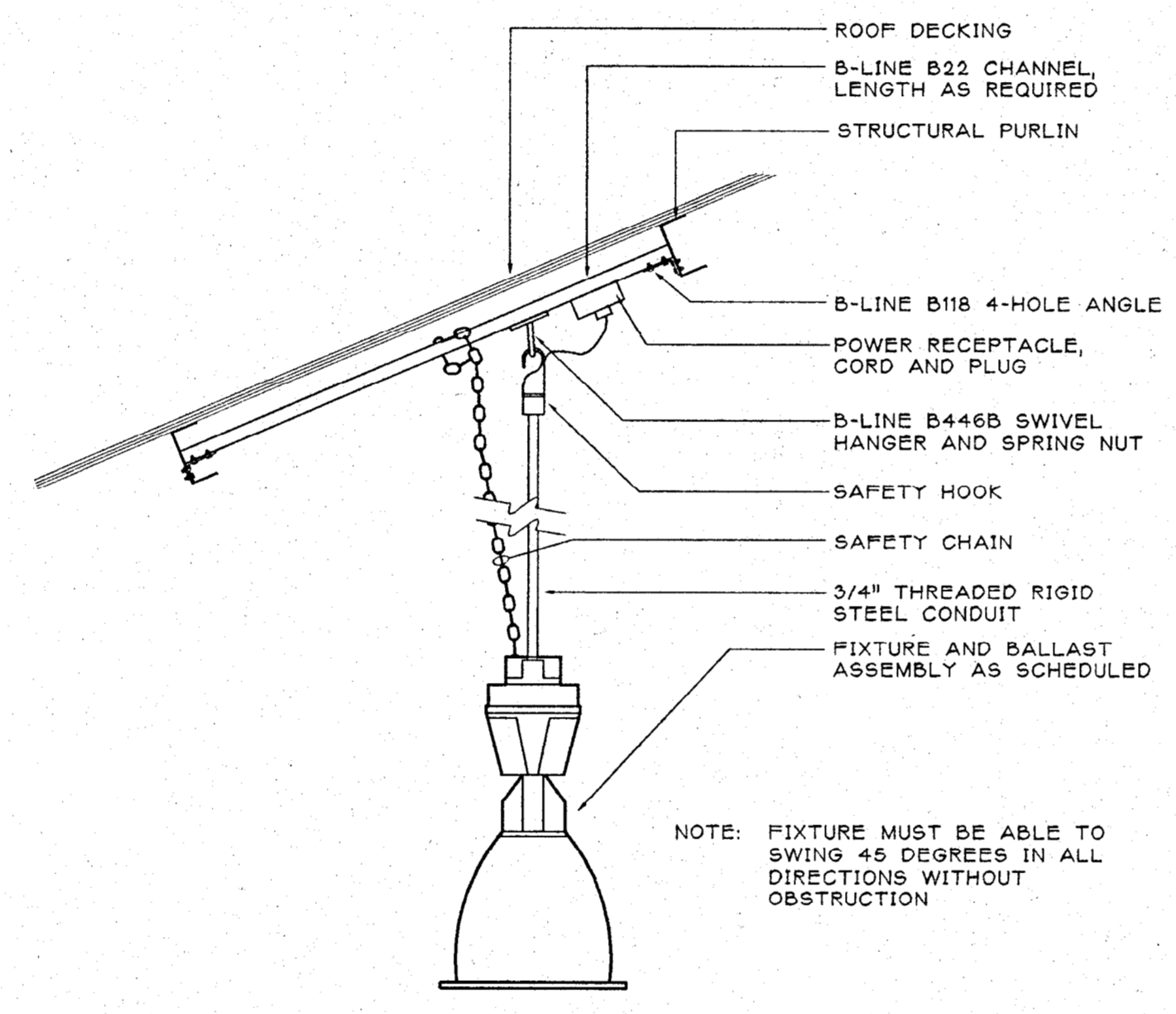
CONDUIT THROUGH FIRE WALL SCALE NTS 3



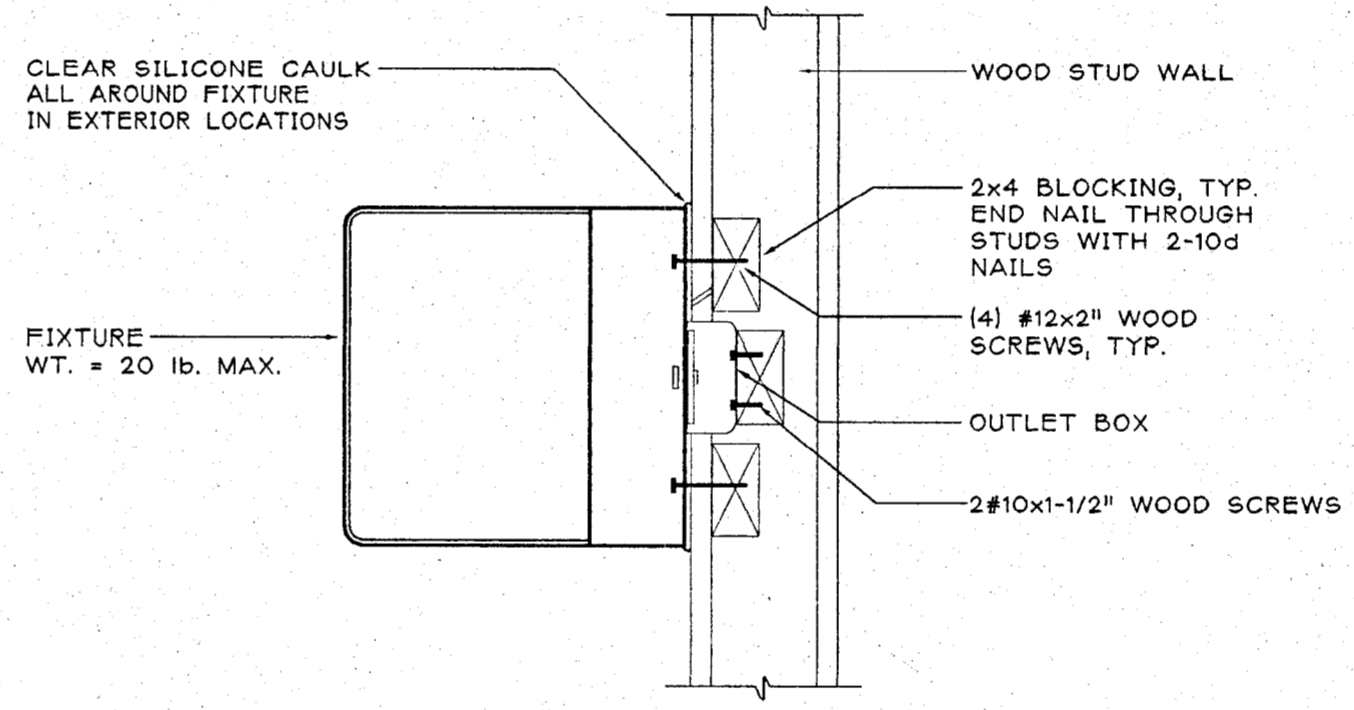
SURFACE MOUNTED PANELBOARD OR CABINET AT NEW WOOD FRAMING - MAX. 24" WIDE SCALE NTS 1



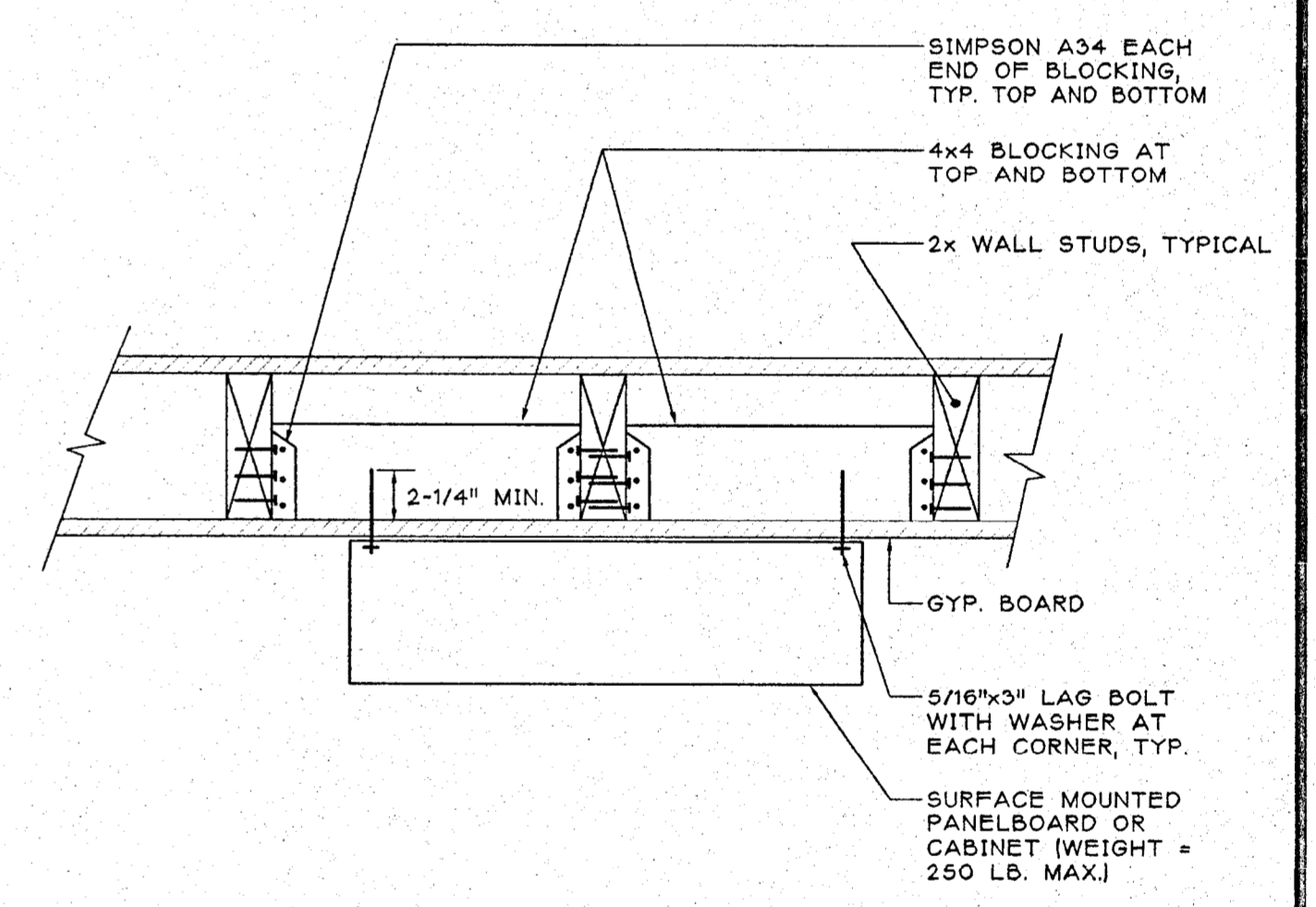
SURFACE FIXTURE AT NOTCHED COLUMN SCALE NTS 10



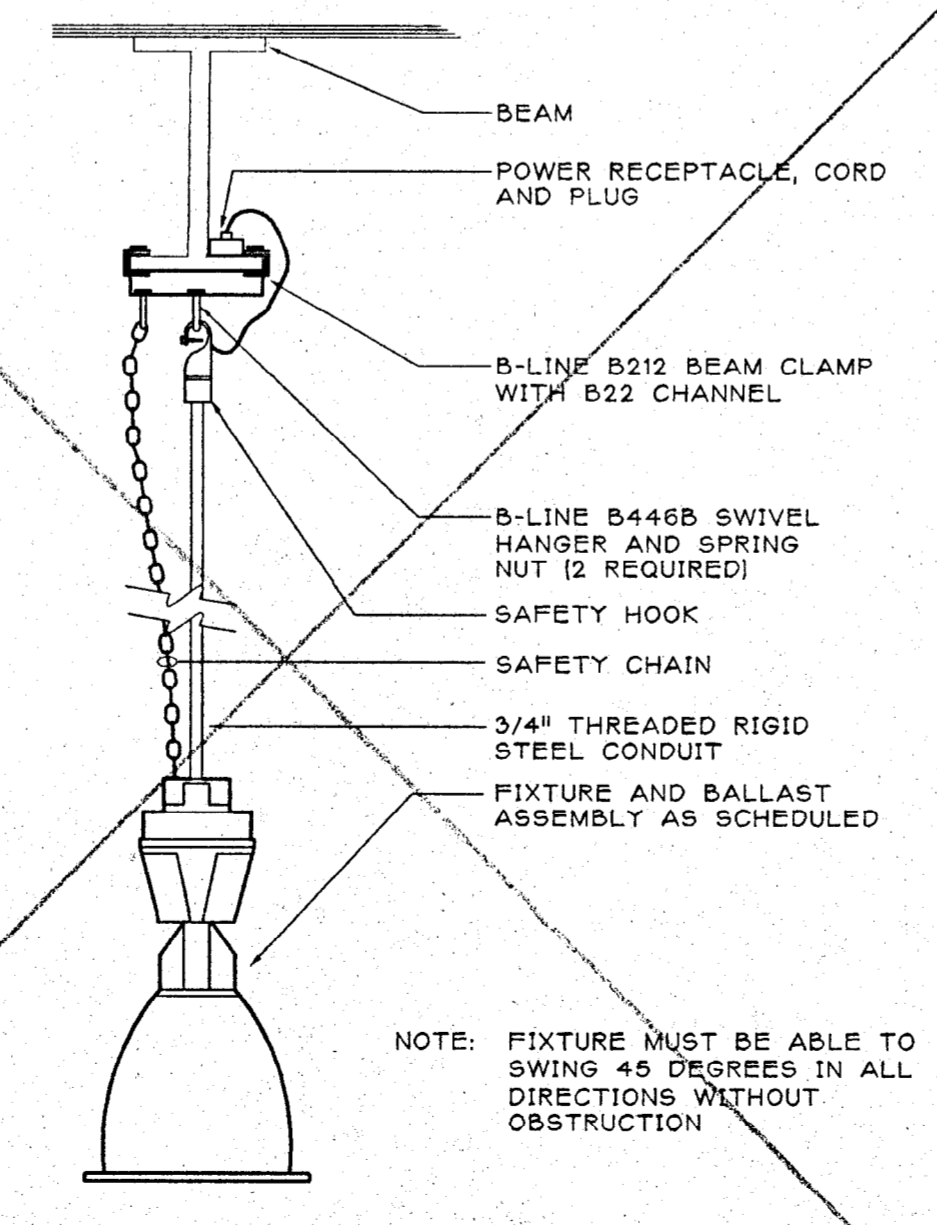
PENDANT FIXTURE BETWEEN METAL PURLINS SCALE NTS 7



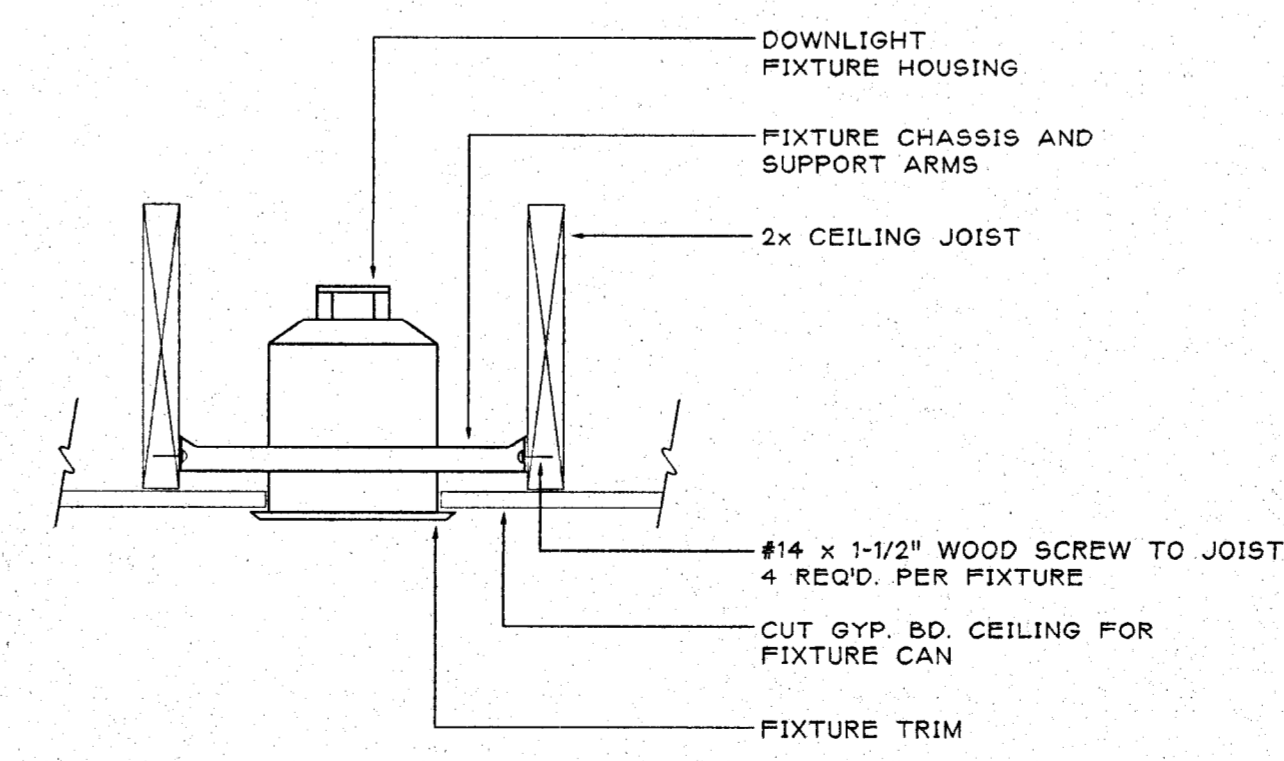
WALL-MOUNTED FIXTURE AT NEW WOOD FRAMING SCALE NTS 4



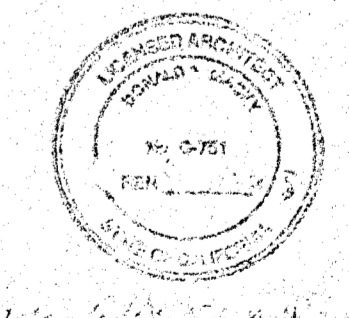
SURFACE MOUNTED PANELBOARD OR CABINET AT NEW WOOD FRAMING SCALE NTS 2



PENDANT FIXTURE FROM BEAM SCALE NTS 8



RECESSED DOWNLIGHT AT WOOD FRAMING, GYP. BOARD CEILING SCALE NTS 5



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UNIT COOLER SCHEDULE											MANUFACTURER: KRACK				
MARK	MODEL	AIR FLOW (CFM)	FANS	BHP	COOLING (MBH)		T DIFF	FINS/IN.	ELECTRICAL					WT (LBS)	REMARKS
				RPM	TOTAL	Volts			Ø	MCA	MOCP	FLA			
UC 1	CKSA-232	3200	4	1.6 A	23.2		10.0'	6	230	1	15	-	-	170	1
UC 2	CKSA-232	3200	4	1.6 A	23.2		10.0'	6	230	1	15	-	-	170	1

REMARKS: 1. PROVIDE PSC FAN MOTOR.

CONDENSING UNIT SCHEDULE											MANUFACTURER: KRACK	
MARK	MODEL	COOLING TOTAL	ELECTRICAL				SUCTION	AMBIENT	WT (LBS)	REMARKS		
			Volts	Ø	MCA	MOCP						
CU 1	KOH-040HWK	49,200	208	3	27.1	35	40°F	105°F	410			

EXHAUST FAN SCHEDULE											MANUFACTURER: GREENHECK	
MARK	MODEL	AIR FLOW (CFM)	SP (" WC)	HP	RPM	ELECTRICAL			SERVICE	LOCATION	WT (LBS)	REMARKS
						Volts	Ø	Amps				
EF 1	SP-7	100	0.125	137 W	950	115	1	80 W	111 - JANITOR	CEILING	20	1
EF 2	SP-226	275	0.125	86 W	1050	115	1	81 W	112 - WOMEN	CEILING	30	2
EF 3	SP-218	200	0.125	156 W	1400	115	1	113 W	112 - MEN	CEILING	30	2
EF 4	CWB-130	1600	0.25	1/4	1285	115	1	0.23 BHP	WINE CELLAR	SIDEWALL	60	
EF 5	CWB-100	700	0.25	1/4	1039	115	1	0.06 BHP	BOTTLE STOR.	SIDEWALL	60	

REMARKS: 1. PROVIDE SEPARATE WALL SWITCH.
2. PROVIDE ELECTRONIC TIMER WITH MANUAL OVERRIDE.
3. PROVIDE LINE VOLTAGE THERMOSTAT.

ELECTRIC WALL HEATER SCHEDULE											MANUFACTURER: Q-MARK	
MARK	MODEL	AIR FLOW (CFM)	HEATING CAP. BTUH	ELECTRICAL				REMARKS				
				Volts	Ø	Amps	Watts					
EW 1	CWH-2202	64	6820	240	1	8.3	2000	1,2				

REMARKS: 1. PROVIDE WITH CWH-DS DISCONNECT SWITCH KIT.
2. PROVIDE WITH SURFACE MOUNTING FRAME.

UNIT HEATER SCHEDULE											MANUFACTURER: REZNOR	
MARK	MODEL	AIR FLOW (CFM)	FLUE (")	HP	HEATING CAP.		ELECTRICAL			AFUE	WT (LBS)	REMARKS
					INPUT MBH	OUTPUT MBH	Volts	Ø	Amps			
UH 1	75 F	980	6"	1/15	75.0	60.0	115	1	1.9	80%	100	1
UH 2	75 F	980	6"	1/15	75.0	60.0	115	1	1.9	80%	100	1

REMARKS: 1. PROVIDE TRANSITION FROM 5" OVAL VENT OUTLET TO 6" Ø "B" VENT.

GRILLE, REGISTER, & DIFFUSER SCHEDULE			
TAG	MFR. / MODEL	BORDER TYPE	REMARKS
OAL-1	RUSKIN, ELF81S30 4" STANDARD	ALUMINUM	OUTSIDE AIR LOUVER FOR BOTTLE STORAGE
OAL-2	RUSKIN, ELF6811 6" STANDARD	ALUMINUM	OUTSIDE AIR LOUVER FOR WINE CELLAR
EAG-1	TITUS, 355RL-HD HEAVY DUTY GRILLE	1	EXHAUST GRILLE FOR WINE CELLAR
DL-1	TITUS, T-700L DOOR GRILLE	1	FOR RESTROOMS
CAL-1	RUSKIN, ELF81S30 4" STANDARD	ALUMINUM	COMBUSTION AIR LOUVER FOR MECHANICAL ROOM

MECHANICAL LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
		EQUIPMENT TYPE EQUIPMENT NUMBER
		DETAIL / DRAWING NUMBER SHEET NUMBER
	SA OR OA	SECTION THRU SUPPLY AIR OR OUTSIDE AIR DUCT
	RA OR EA	SECTION THRU RETURN AIR OR EXHAUST AIR DUCT
		ROUND DUCT DOWN
	DN OR UP	SLOPE DUCT DOWN OR UP IN DIRECTION OF FLOW
	AL	ACOUSTICAL LINING
	FC	FLEXIBLE DUCT CONNECTION
	VD	VOLUME DAMPER
	FD	FIRE DAMPER
	TV	TURNING VANES
		FLEXIBLE DUCT
		45° ROUND DUCT TAKE-OFF
		45° RECTANGULAR DUCT TAKE-OFF
		90° TURN - ROUND DUCT
		90° RADIUS TURN - ROUND OR RECTANGULAR DUCT
		SQUARE TO ROUND DUCT TRANSITION
		DUCT TRANSITION
		RECTANGULAR DUCT 90° SPLIT
		THERMOSTAT
		ENERGY MANAGEMENT SENSOR
	AP	ACCESS PANEL
	BHP	BRAKE HORSEPOWER
	HP	HORSEPOWER

EQUIPMENT ANCHORAGE

1632A.6 HVAC DUCTWORK, PLUMBING/PIPING AND CONDUIT SYSTEMS.

ALL PIPES, DUCTS AND CONDUIT SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN SECTION 1630A.2. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH PROVISIONS CONTAINED IN PART 4, TITLE 24, CALIFORNIA MECHANICAL CODE. WHERE POSSIBLE, PIPES, CONDUIT, AND THEIR CONNECTIONS SHALL BE CONSTRUCTED OF DUCTILE MATERIALS (COPPER, DUCTILE IRON, STEEL OR ALUMINUM AND BRAZED, WELDED OR SCREWED CONNECTIONS). PIPES, CONDUITS AND THEIR CONNECTIONS, CONSTRUCTED OF NONDUCTILE MATERIALS (E.G., CAST IRON, NO-HUB PIPE AND PLASTIC), SHALL HAVE THE BRACE SPACING REDUCED TO ONE-HALF OF THE SPACING ALLOWED FOR DUCTILE MATERIAL IN ACCORDANCE WITH SECTION 1630A.5 OR OTHER STANDARDS APPROVED BY THE ENFORCING AGENCY.

SEISMIC RESTRAINTS MAY BE OMITTED FOR THE FOLLOWING CONDITIONS:

- FUEL PIPING LESS THAN 1 INCH INSIDE DIAMETER.
- ALL OTHER PIPING LESS THAN 2.5 INCHES DIAMETER, EXCEPT MEDICAL GAS INCLUDING VACUUM PIPING, OR ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE STRUCTURAL SUPPORT FOR THE HANGER, OR ALL ELECTRICAL CONDUIT LESS THAN 2.5 INCHES TRADE SIZE.
- ALL RECTANGULAR AIR-HANDLING DUCTS LESS THAN 6 SQUARE FEET IN CROSS-SECTIONAL AREA, OR ALL ROUND AIR-HANDLING DUCTS LESS THAN 28 INCHES IN DIAMETER, OR ALL DUCTS SUSPENDED BY HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE DUCT TO THE BOTTOM OF THE STRUCTURAL SUPPORT FOR THE HANGER. FOR RIGIDLY SUPPORTED PIPING, ELECTRICAL CONDUIT, CABLE TRAYS OR AIR-HANDLING DUCTS, THE PRODUCT OF IC_p NEED NOT EXCEED 1.2 FOR ANY VALUE OF I.

1632A.6.1 ALL TRAPEZE ASSEMBLIES SUPPORTING PIPES, DUCTS AND CONDUIT SHALL BRACED TO RESIST THE FORCES OF SECTION 1632A, CONSIDERING THE TOTAL WEIGHT OF THE ELEMENTS ON THE TRAPEZE.

PIPES, DUCTS AND CONDUIT SUPPORTED BY A TRAPEZE WHERE NONE OF THOSE ELEMENTS WOULD INDIVIDUALLY BE BRACED NEED NOT BE BRACED IF CONNECTIONS TO THE PIPE/CONDUIT/DUCTWORK OR DIRECTIONAL CHANGES DO NOT RESTRICT THE MOVEMENT OF THE TRAPEZE. IF THIS FLEXIBILITY IS NOT PROVIDED, BRACING WILL BE REQUIRED WHEN THE AGGREGATE WEIGHT OF THE PIPES AND CONDUIT EXCEED 10 POUNDS/FEET. THE WEIGHT SHALL BE DETERMINED ASSUMING ALL PIPES AND CONDUIT ARE FILLED WITH WATER.



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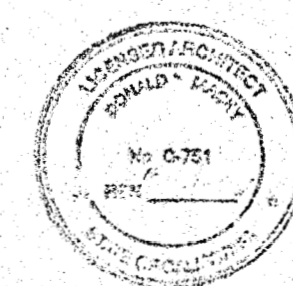
MECHANICAL
LEGEND AND
SCHEDULES

DATE: JULY 26, 2001
SCALE: NOTED
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JOB: 00-107

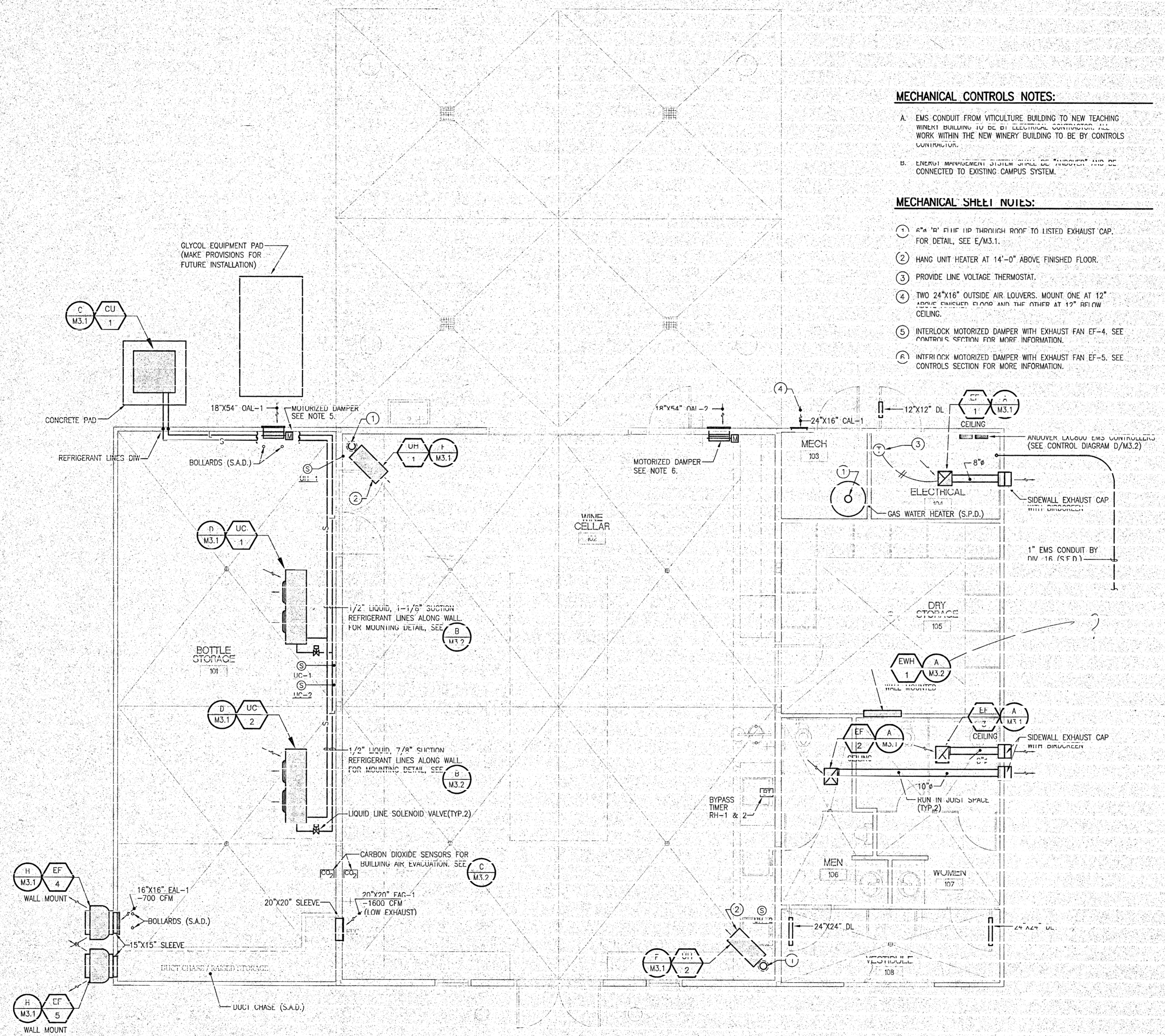
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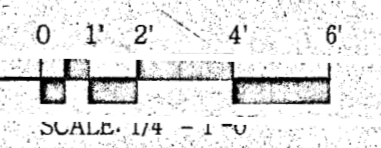
MECHANICAL CONTROLS NOTES:

- A. EMS CONDUIT FROM VITICULTURE BUILDING TO NEW TEACHING WINEY BUILDING TO BE BY ELECTRICAL CONTRACTOR. ALL WORK WITHIN THE NEW WINERY BUILDING TO BE BY CONTROLS CONTRACTOR.
- B. ENERGY MANAGEMENT SYSTEM SHALL BE "HARDWIRED" AND BE CONNECTED TO EXISTING CAMPUS SYSTEM.

MECHANICAL SHEET NOTES:

- 1. 6" R/F RISE UP THROUGH ROOF TO LISTED EXHAUST CAP. FOR DETAIL, SEE E/M3.1.
- 2. HANG UNIT HEATER AT 14'-0" ABOVE FINISHED FLOOR.
- 3. PROVIDE LINE VOLTAGE THERMOSTAT.
- 4. TWO 24"x16" OUTSIDE AIR LOUVERS. MOUNT ONE AT 12" ABOVE FINISHED FLOOR AND THE OTHER AT 12" BELOW CEILING.
- 5. INTERLOCK MOTORIZED DAMPER WITH EXHAUST FAN EF-4. SEE CONTROLS SECTION FOR MORE INFORMATION.
- 6. INTERLOCK MOTORIZED DAMPER WITH EXHAUST FAN EF-5. SEE CONTROLS SECTION FOR MORE INFORMATION.

MECHANICAL PLAN



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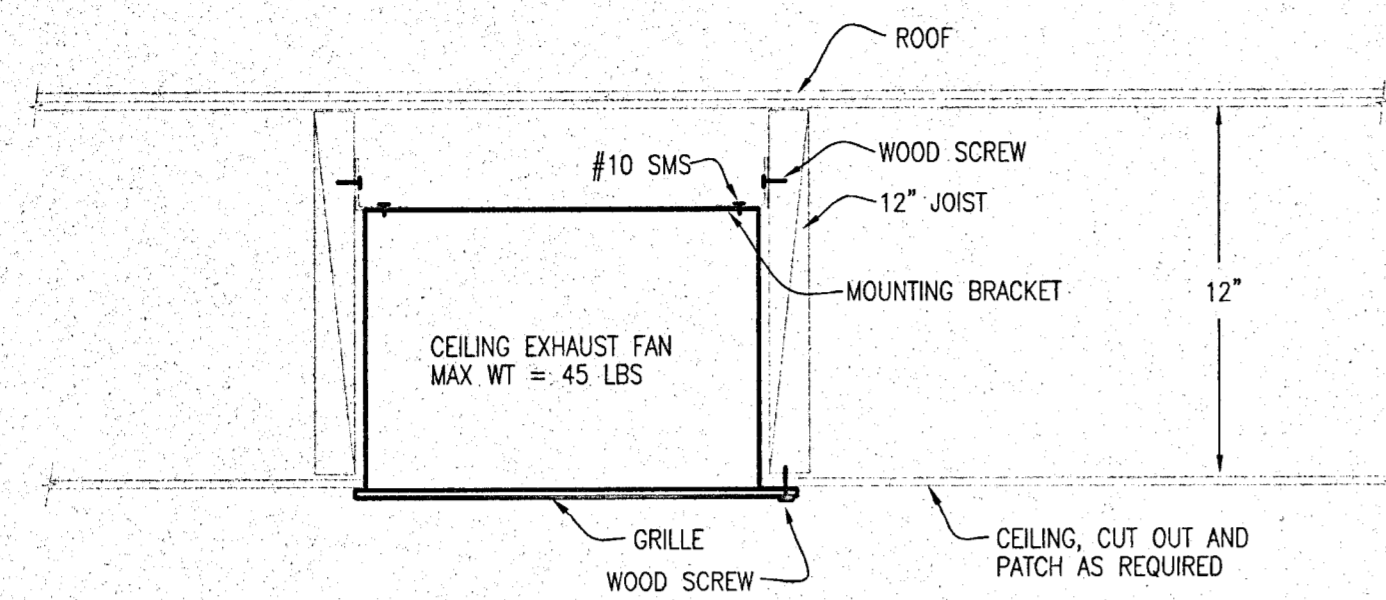
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DATE: JULY 26, 2001

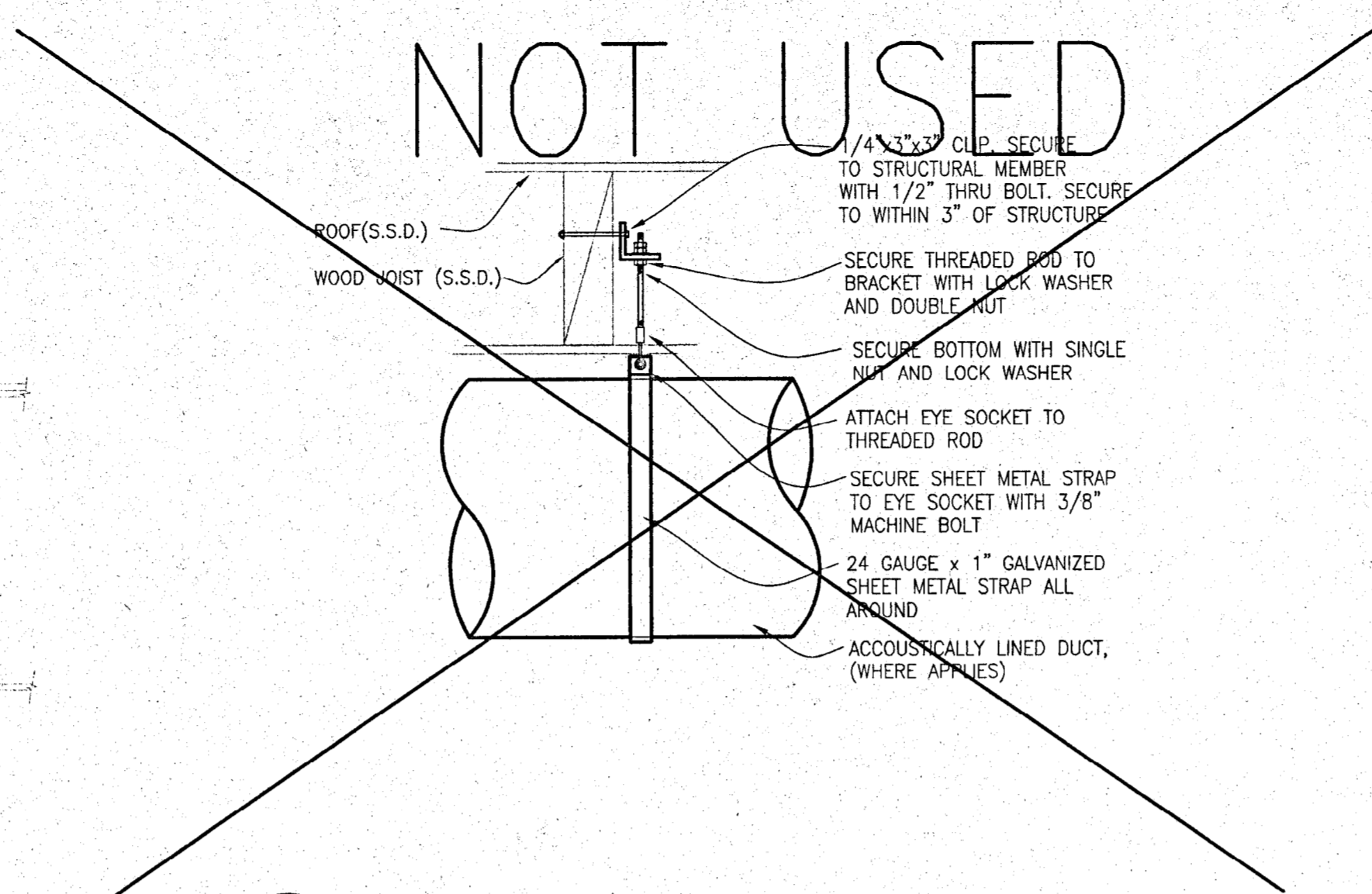
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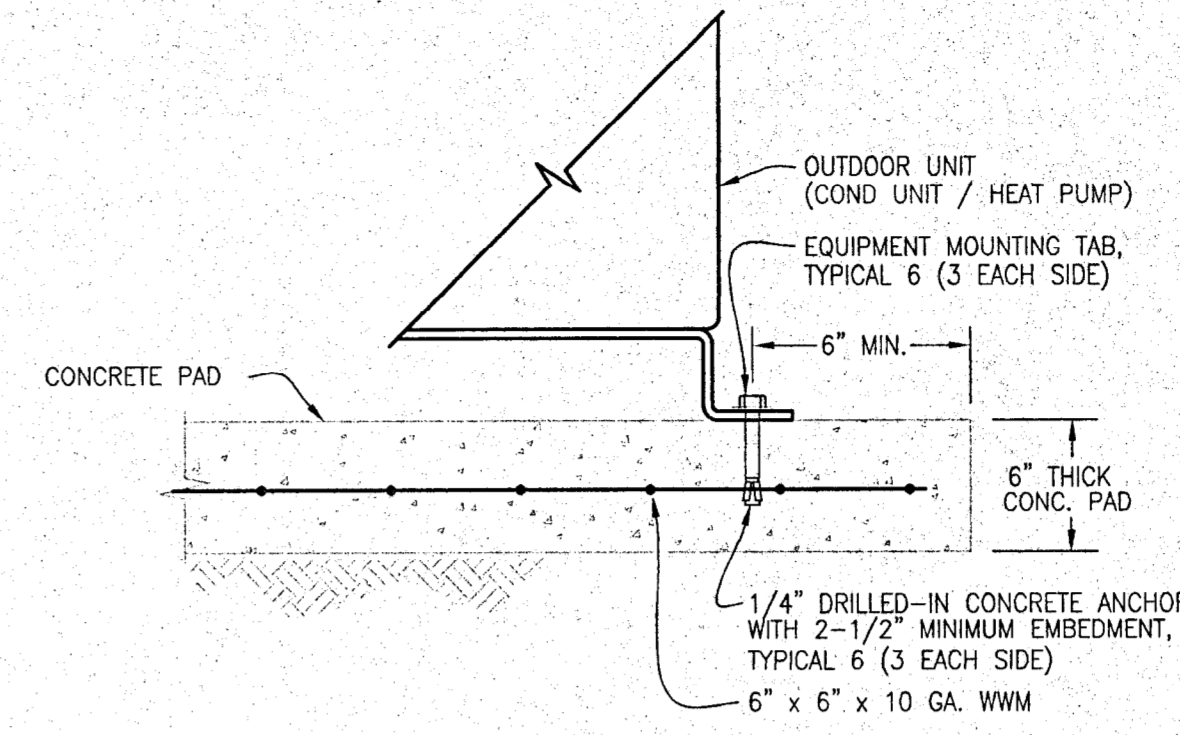
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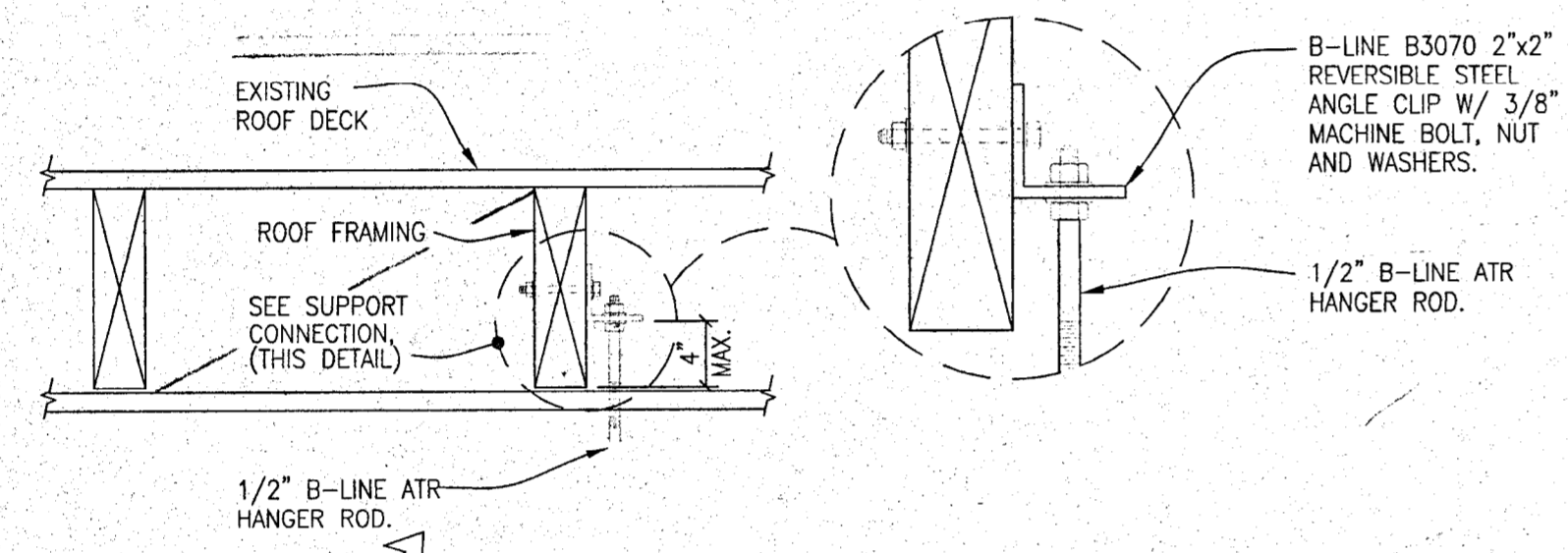
A CEILING EXHAUST FAN MOUNTING DETAIL
M3.1 NOT TO SCALE



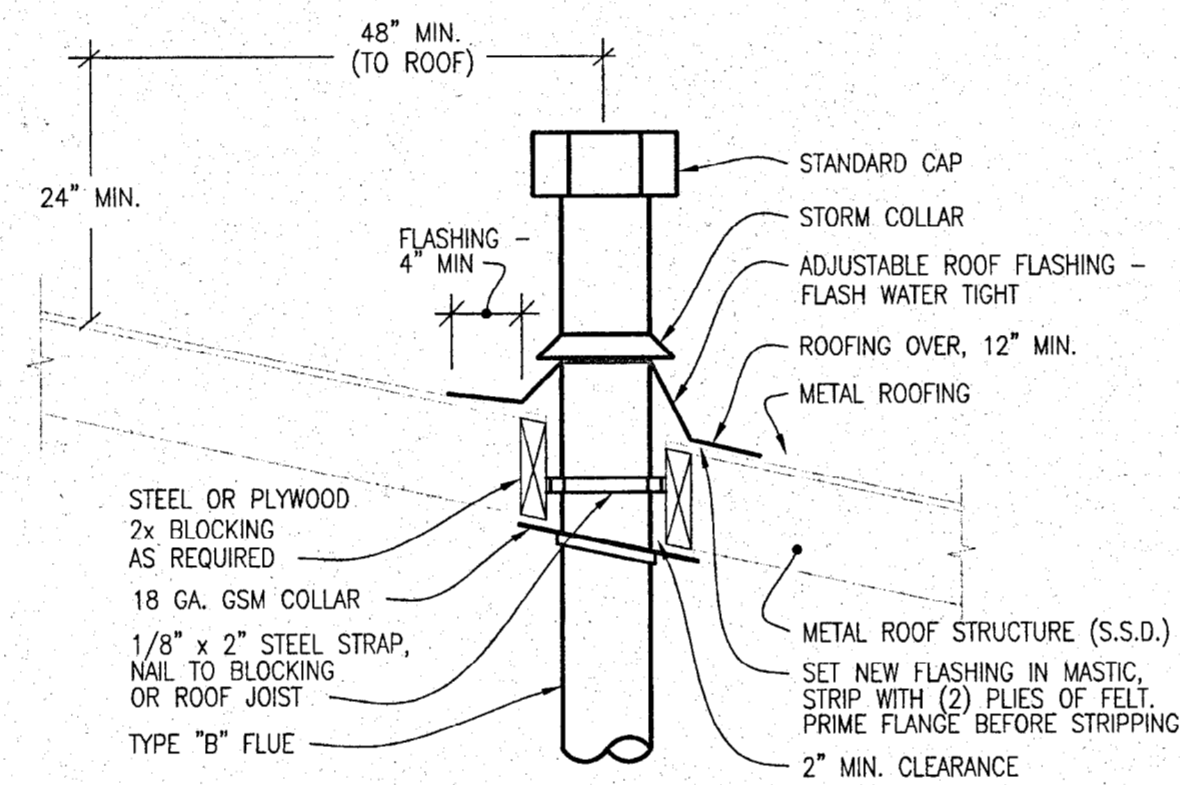
B EXPOSED DUCT SUPPORT DETAIL
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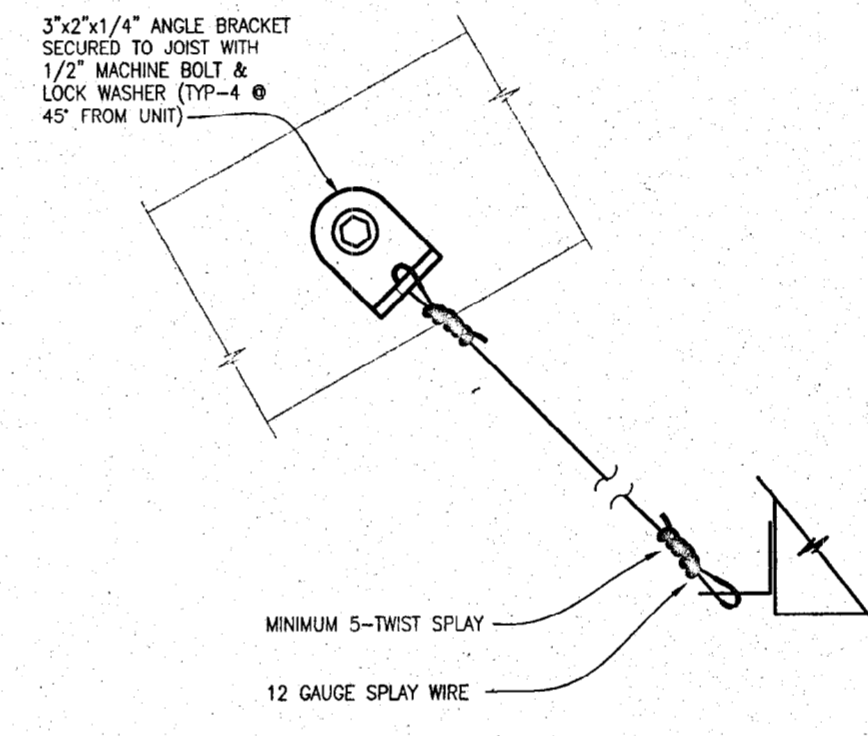
C CONDENSING UNIT SUPPORT
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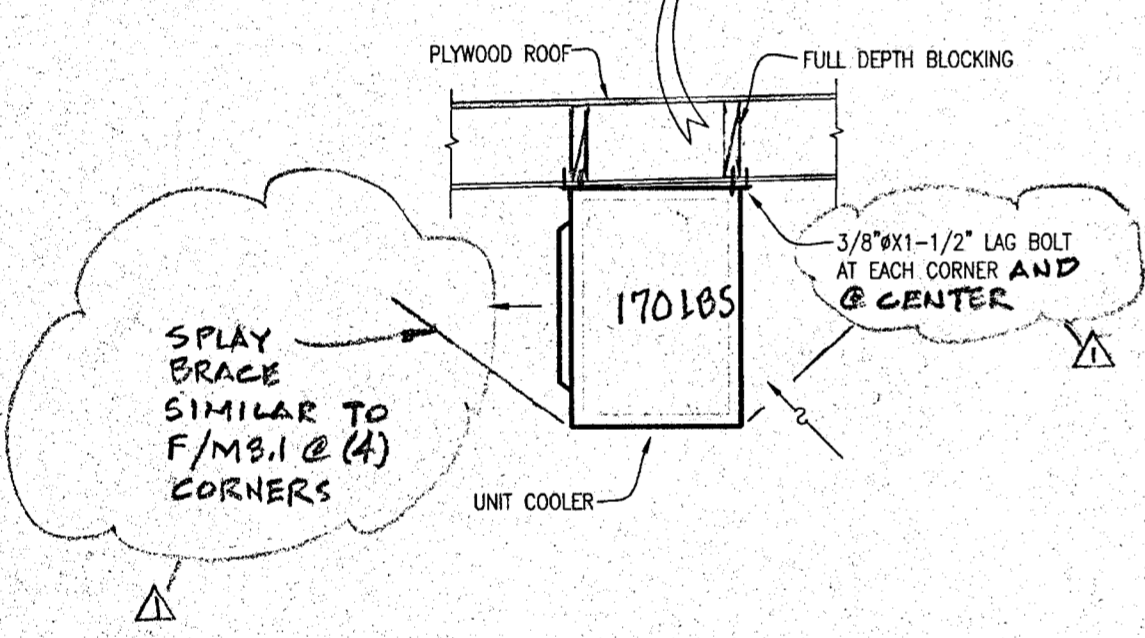
D UNIT COOLER MOUNTING DETAIL
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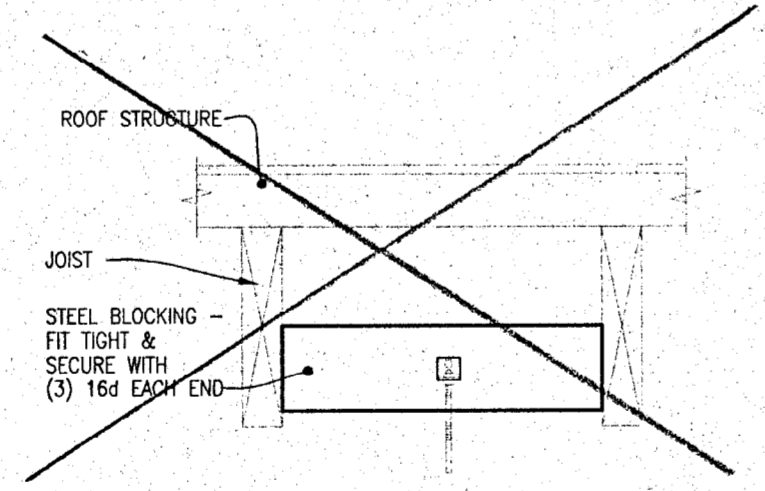
E FLUE THROUGH ROOF
M3.1 NOT TO SCALE



F GAS UNIT HEATER MOUNTING DETAIL
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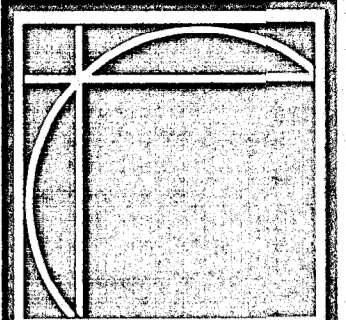


G HANGER DETAIL
M3.1 NOT TO SCALE



H SIDEWALL EXHAUST FAN DETAIL
M3.1 NOT TO SCALE

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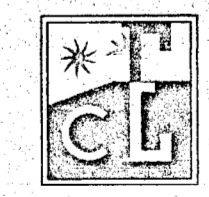
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REVISIONS	
△	SEPT 28, 01
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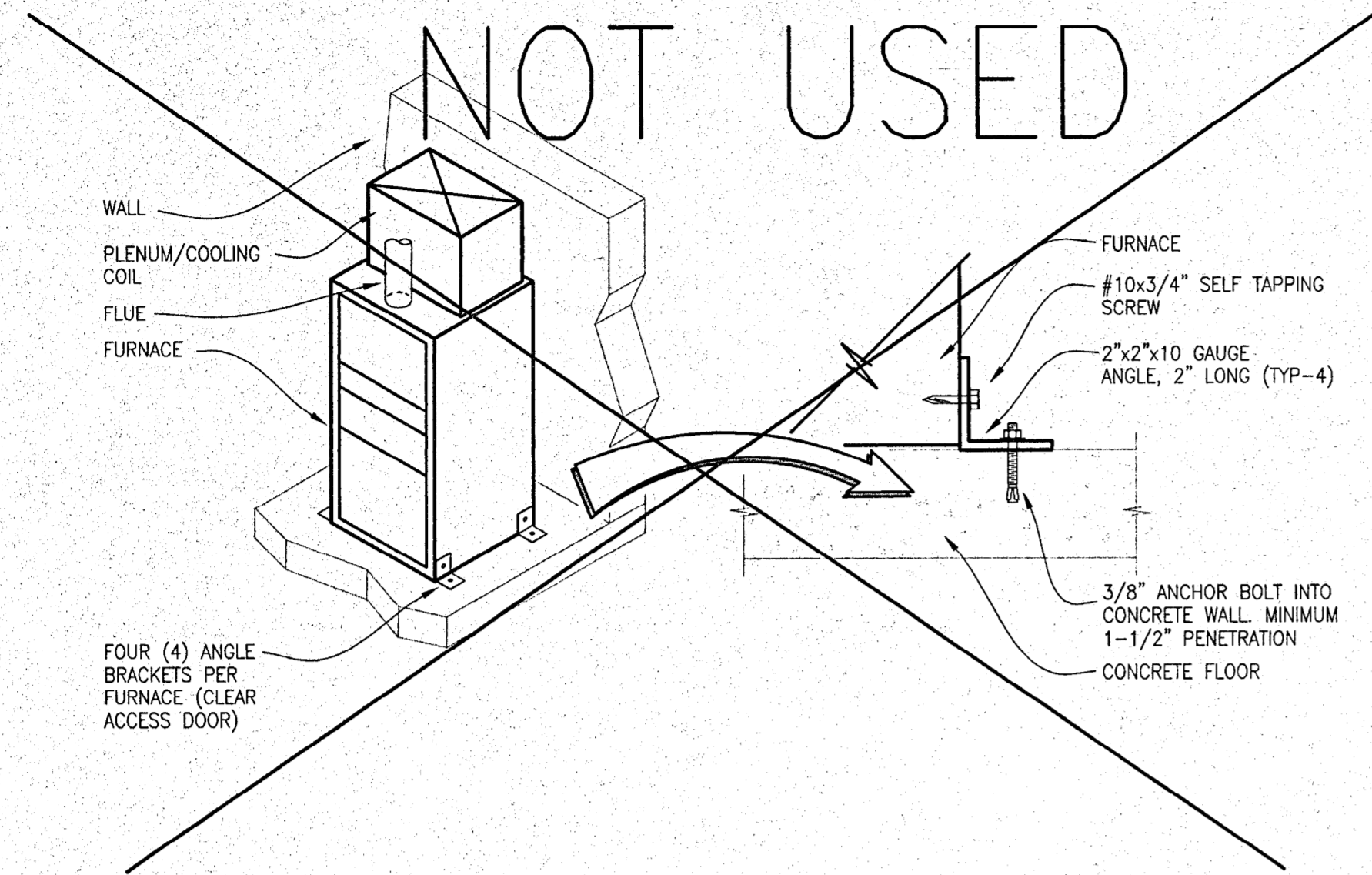
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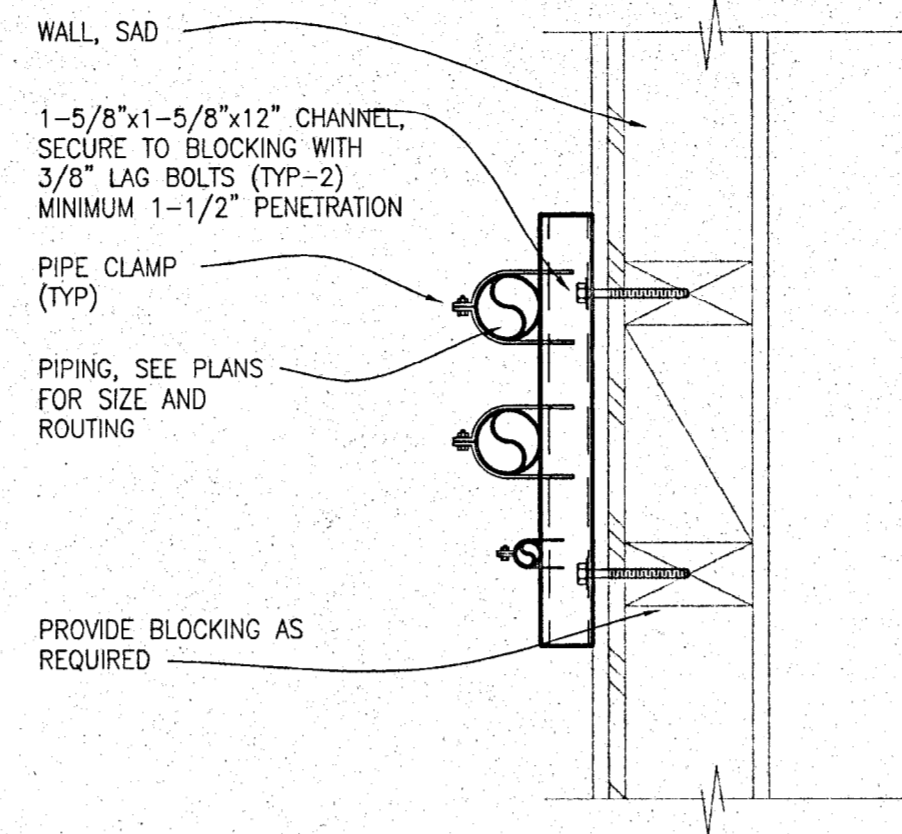
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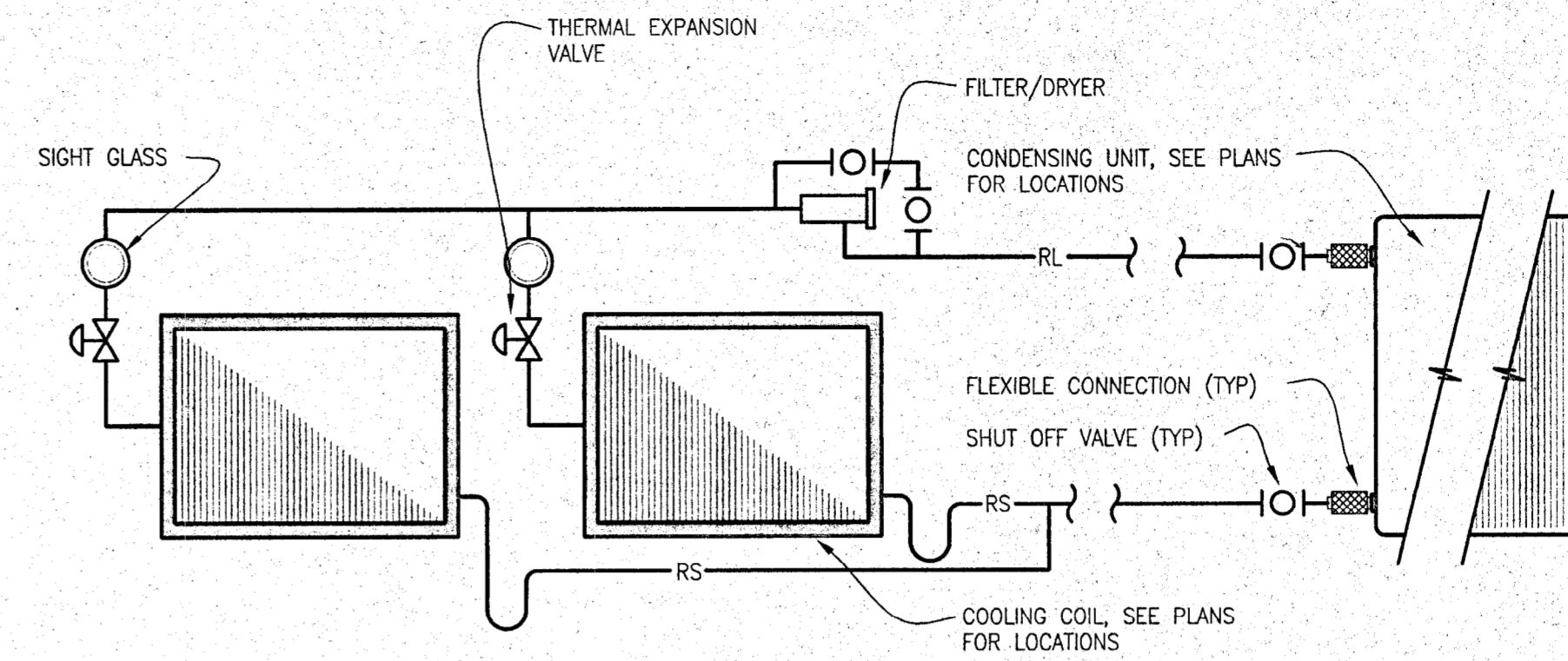
M3.1



A FURNACE MOUNTING/PLATFORM DETAIL
M3.2 NOT TO SCALE

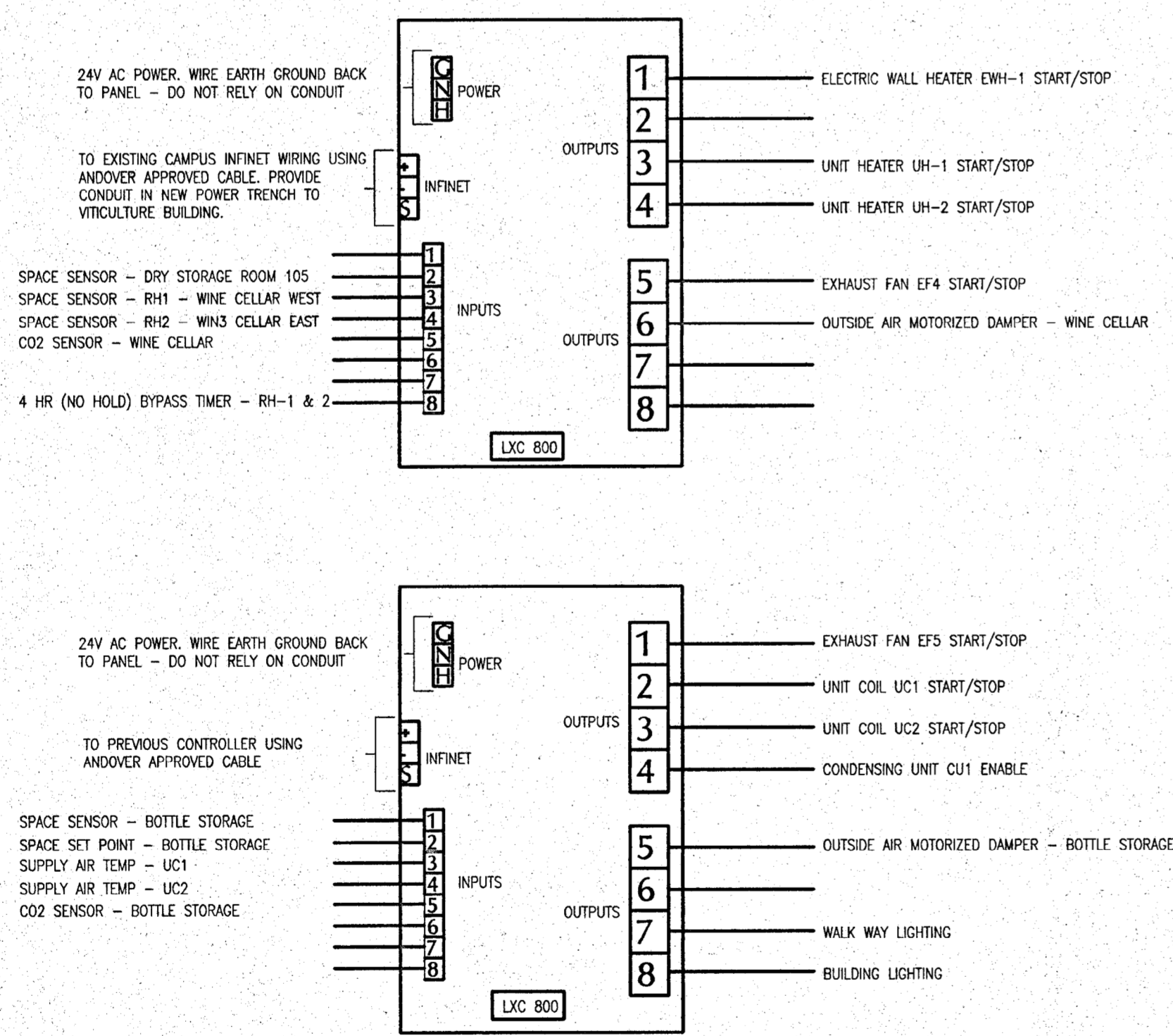


B PIPE HANGER DETAIL
M3.2 NOT TO SCALE



NOTES:
 A. MECHANICAL JOINT REFRIGERANT CONNECTIONS ARE PROHIBITED. ALL JOINTS SHALL BE BRAZED. TRIPLE EVACUATE AND WEIGH IN REFRIGERANT CHARGE.
 B. USE ONLY RIGID ACR COPPER PIPING. PRE-CHARGED TUBING KITS ARE PROHIBITED.
 C. INSULATE SUCTION LINE WITH 1/2" THICK "ARMAFLEX" UNICELLULAR PIPE INSULATION WITH ULTRA VIOLET PROTECTION.

C REFRIGERANT PIPING DIAGRAM
NTS



D BUILDING CONTROLS DIAGRAM
M3.2 NOT TO SCALE

SEQUENCE OF OPERATION:
 DRY STORAGE:
 WINTER - WHEN TEMPERATURE DROPS 2 DEGREES BELOW SET POINT, START F1 FAN AND THEN BURNER TO WARM SPACE TO SET POINT. OPERATE FAN AFTER BURNER STOPS UNTIL SUPPLY AIR TEMPERATURE DROPS TO 10 DEGREES ABOVE SPACE TEMPERATURE. PROVIDE 5-MINUTE SHORT CYCLE DELAY ON FAN AND BURNER START/STOP.
 WINE CELLAR:
 WINTER - START RADIANT HEAT UNITS WHEN THE RESPECTIVE SPACE TEMPERATURE IS 2 DEGREES BELOW SET POINT AND THE BYPASS TIMER IS ENERGIZED TO WARM SPACE TO SET POINT. PROVIDE 5-MINUTE SHORT CYCLE DELAY.
 SUMMER - OPERATE EXHAUST FAN EF4 TO COOL SPACE WHEN OSA TEMPERATURE IS 10 DEGREES BELOW SPACE TEMPERATURE AND SPACE TEMPERATURE IS 5 DEGREES ABOVE SET POINT. PROVIDE 5-MINUTE SHORT CYCLE DELAY FOR FAN.
 BOTTLE STORAGE:
 WINTER - THERE IS NO PROVISION OR NEED FOR HEAT IN THIS SPACE. OPERATE EXHAUST FAN EF5 TO COOLL SPACE SET POINT IF NEEDED.
 SUMMER - OPERATE EXHAUST FAN EF4 TO COOL SPACE WHEN OSA TEMPERATURE IS 10 DEGREES BELOW SPACE TEMPERATURE AND SPACE TEMPERATURE IS 5 DEGREES ABOVE SET POINT. WHEN OSA IS NOT ADEQUATE TO MAINTAIN SPACE TEMPERATURE STAGE UC1, UC2 WITH CU1 TO COOL SPACE TO SET POINT.
 CO2 CONTROL:
 MONITOR THE CO2 LEVEL IN BOTH THE WINE CELLAR AND BOTTLE STORAGE AREA. TURN ON THE APPROPRIATE EXHAUST FAN AND ACTUATE THE OUTSIDE AIR MOTORIZED DAMPER ON IF THE CO2 LEVEL RISES ABOVE THE PROGRAMMED SET POINT AND PRINT AND ALARM MESSAGE AT THE FACILITIES MANAGEMENT OFFICE.
 BUILDING LIGHTING:
 LIGHTS OPERATE WHEN IT IS DARK.
 WALKWAY LIGHTS:
 LIGHTS OPERATE WHEN IT IS DARK AND THE CAMPUS IS OCCUPIED AND ONE HOUR BEFORE SCHEDULED OCCUPANCY AND ONE HOUR AFTER SCHEDULED OCCUPANCY. (THIS FUNCTION MAY BE ACCOMPLISHED BY EXTENDING THE EXISTING WALKWAY LIGHT CIRCUIT FROM THE VITICULTURE LAB BUILDING).

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MECHANICAL DETAILS,
 CONTROLS DIAGRAM

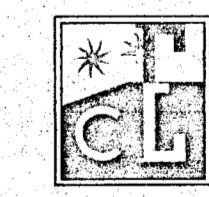
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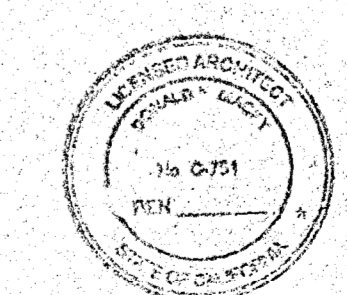
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JOB: 00-107

M3.2



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 ph: 707-252-9177 Fax: 707-252-6475



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 FILE # 28-C1
 AC *DS* FLS *FLS* SS *SS*
 DATE *SEP 2 0 2001*

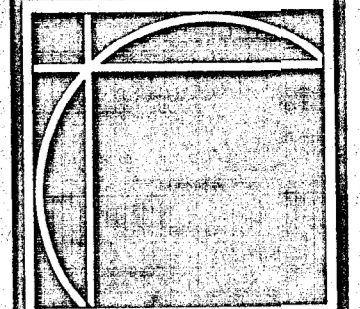
PLUMBING LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
		DRAWING NUMBER
		DETAIL NUMBER DRAWING NUMBER
		EQUIPMENT IDENTIFICATION
		PIPE UP
		PIPE DOWN
	CW	COLD WATER LINE
	HW	HOT WATER LINE
	TW	TEMPERED WATER LINE
	S OR W	SOIL OR WASTE LINE
	V	VENT LINE
	BC	PIPE BELOW GRADE
		DIRECTION OF FLOW
	G	GAS LINE
	F	FIRE PROTECTION WATER SUPPLY
	CD	CONDENSATE DRAIN
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
	COTG	CLEANOUT TO GRADE
	GM	GAS METER
	SA	SHOCK ABSORBER
	CV	CHECK VALVE
	GC	GAS COCK
	STR	STRAINER
	U	UNION
	AP	ACCESS PANEL
	BF	BELOW FLOOR
	CR	CONDENSATE RECEIVER
	DIW	DOWN IN WALL
	UIW	UP IN WALL
	DN	DOWN
	DTBG	DOWN TO BELOW GRADE
	GA	GAUGE
	HB	HOSE BIBB
	IW	IN WALL
	IFC	IN FURRED CEILING
	NIPS	NOT IN PLUMBING SECTION
	SHTMTL	SHEET METAL
	TP	TRAP PRIMER
	IPT	IN PIPING TUNNEL
	SMD	SEE MECHANICAL DRAWINGS
	DTR	DOWN THROUGH ROOF
	CFH	CUBIC FEET PER HOUR
	MPG	MEDIUM PRESSURE GAS
	N.I.P.C.	NOT IN PLUMBING CONTRACT
	UTR	UP THROUGH ROOF

GAS WATER HEATER SCHEDULE									
MARK	MODEL #	STORAGE CAPACITY	GAS TYPE	INPUT (BTU/HR)	GPH RECOVERY @ 90° RISE	FLUE SIZE	THERMAL EFFICIENCY	WEIGHT	REMARKS
WH 1	SBF80-199NE	80 gal.	NATURAL	199,000	220	4"	80%	1312	
REMARKS:									

MANUFACTURER:
STATE

LOCAL CONNECTION SCHEDULE							
MARK	FIXTURE	S OR W	V	CW	HW	G	REMARKS
P-1	WATER CLOSET	4"	2"	1-1/4"	-	-	FLOOR MOUNTED - FLUSH VALVE
P-1A	WATER CLOSET	4"	2"	1-1/4"	-	-	FLOOR MOUNTED - FLUSH VALVE, ADA COMPLIANT
P-2	LAVATORY	2"	1-1/2"	1/2"	1/2"	-	HW & CW COUNTER MOUNTED ADA COMPLIANT
P-3	URINAL	2"	1-1/2"	1"	-	-	WALL MOUNTED - FLUSH VALVE, ADA COMPLIANT
P-4	NOT USED						
P-5A	WINE CELLAR SINK	2"	1-1/2"	1/2"	1/2"	-	HW & CW COUNTER MOUNTED SINGLE COMPARTMENT - ADA
P-5B	WINE CELLAR SINK	2"	1-1/2"	1/2"	1/2"	-	HW & CW COUNTER MOUNTED SINGLE COMPARTMENT - ADA
P-5C	CRUSH PAD SINK	2"	1-1/2"	1/2"	1/2"	-	HW & CW STAND ALONE SINGLE COMPARTMENT - ADA
P-6	DRINKING FOUNTAIN	2"	1-1/2"	1/2"	-	-	ACCESSIBLE - HI & LOW
P-7	NOT USED						
P-8	EMERGENCY SHOWER	2"	1-1/2"	1-1/4"	1-1/4"	-	WITH EYEWASH STATION
HB-1	HOSE BIBB	-	-	3/4"	-	-	COLD WATER ONLY
HB-2	HOSE BIBB	-	-	3/4"	-	-	COLD WATER ONLY WITH KEY
HB-3	HOSE BIBB	-	-	3/4"	-	-	COLD WATER ONLY WITH QUICK DISCONNECT
FD-1	FLOOR DRAIN	2"	1-1/2"	-	-	-	ACID RESISTANT
FD-2	FLOOR DRAIN	2"	1-1/2"	-	-	-	ACID RESISTANT

OWNER'S RECORD DOCUMENT - FOR REFERENCE ONLY



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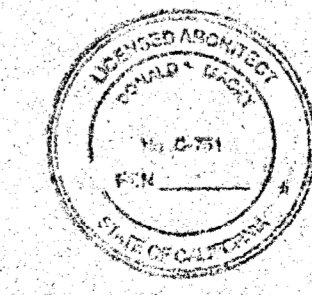
**NAPA VALLEY VITNERS
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Napa Valley College
Napa, California

PLUMBING
LEGEND AND
SCHEDULES

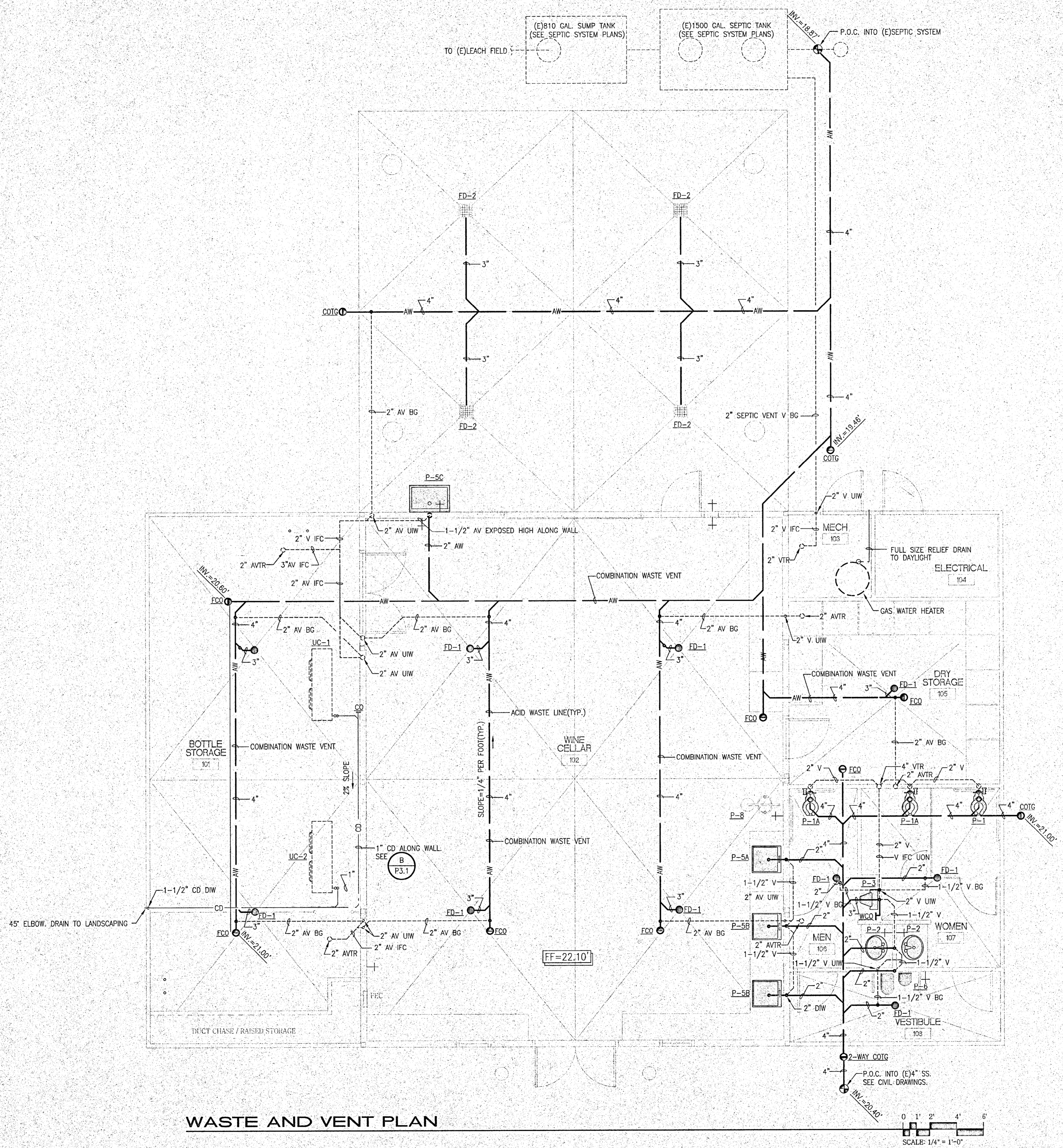
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P1.0



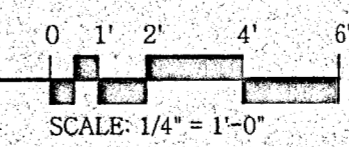
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WASTE AND VENT PLAN



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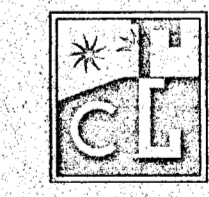
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PLUMBING
 WASTE AND
 VENT PLAN



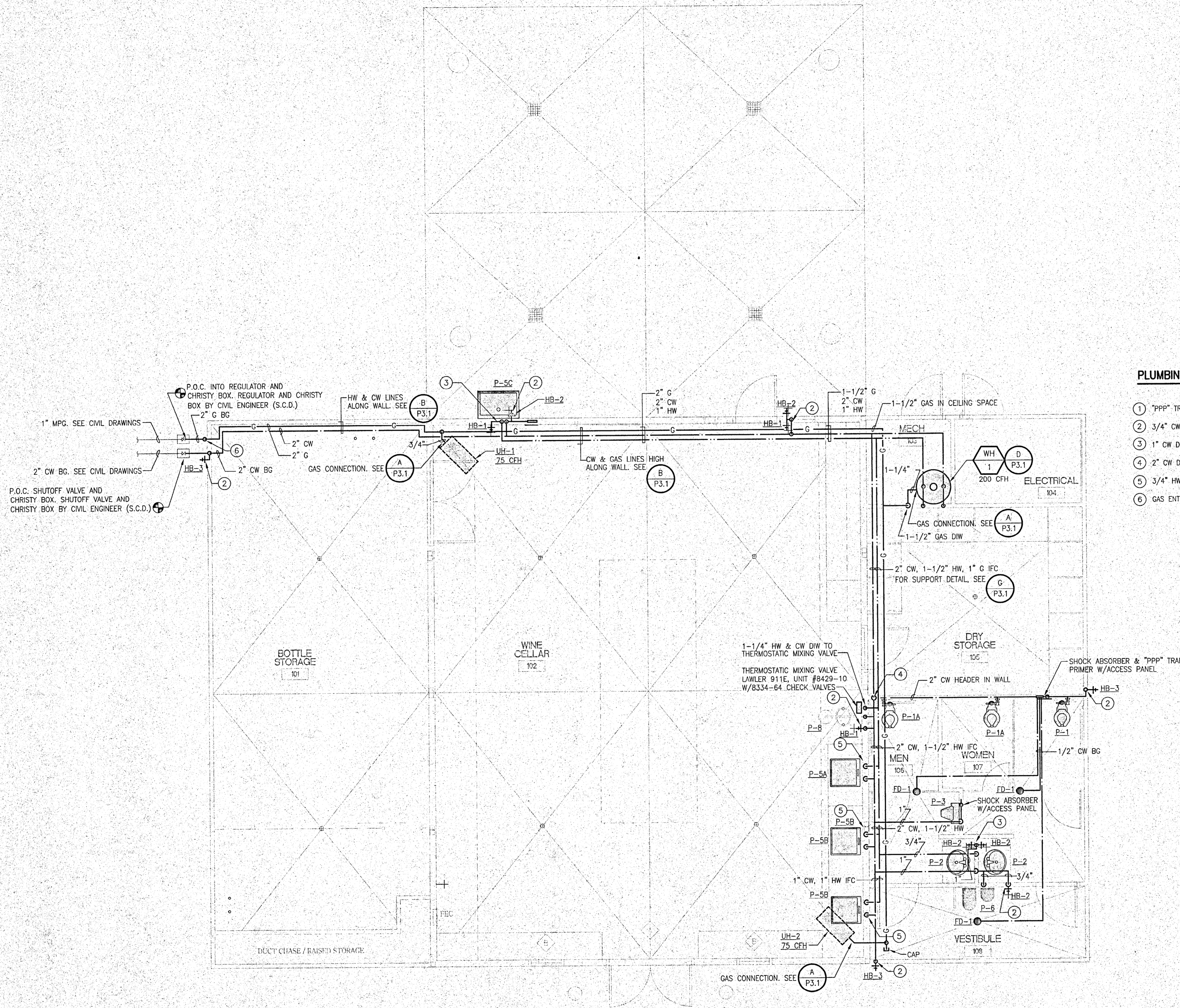
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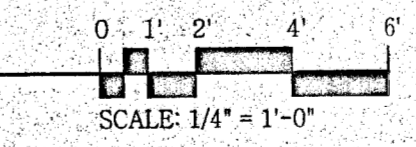
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P2.1



- PLUMBING SHEET NOTES:**
- ① "PPP" TRAP PRIMER WITH ACCESS PANEL.
 - ② 3/4" CW DOWN IN WALL TO HOSE BIBB(S).
 - ③ 1" CW DOWN IN WALL TO HOSE BIBBS.
 - ④ 2" CW DOWN IN WALL TO PLUMBING FIXTURES.
 - ⑤ 3/4" HW & 3/4" CW DOWN IN WALL TO SINK.
 - ⑥ GAS ENTRY INTO BUILDING. SEE DETAIL E/P-3.1.

DOMESTIC WATER + GAS PLAN



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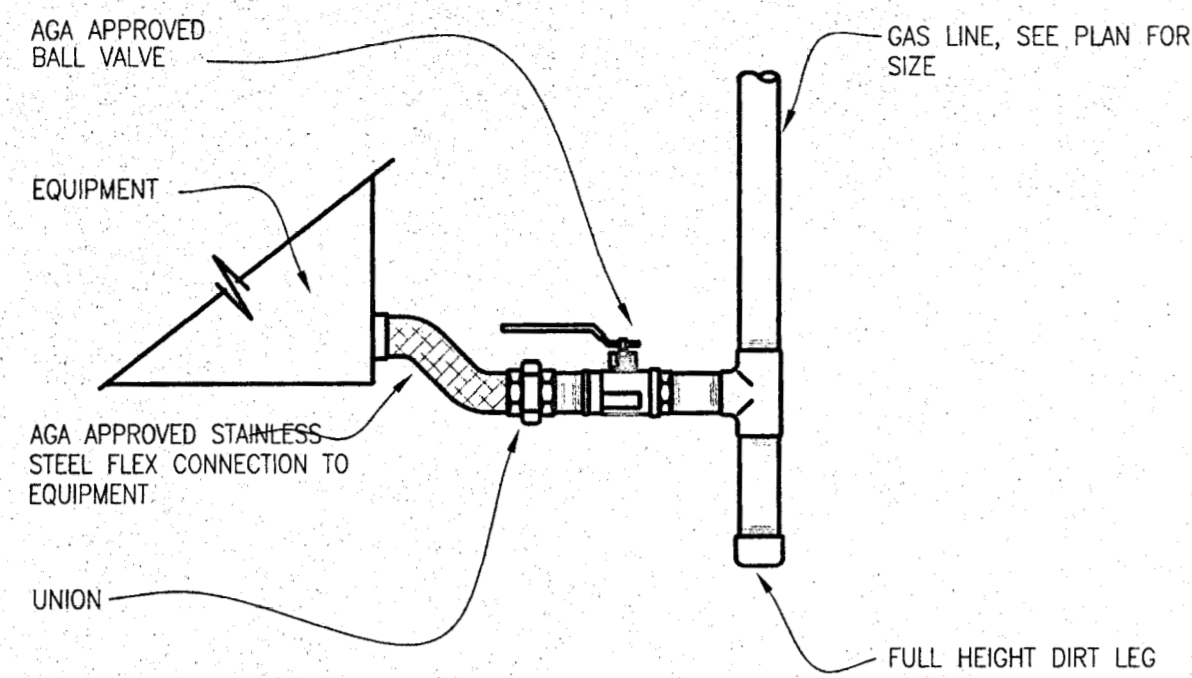
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**DOMESTIC WATER
 & GAS PLAN**

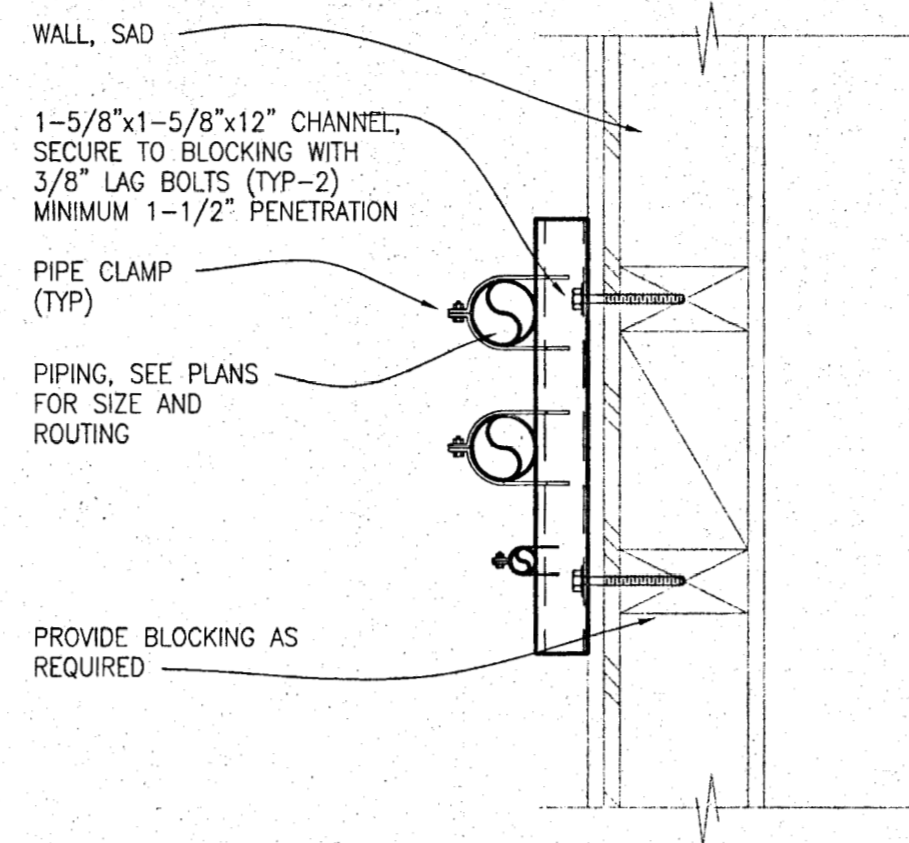
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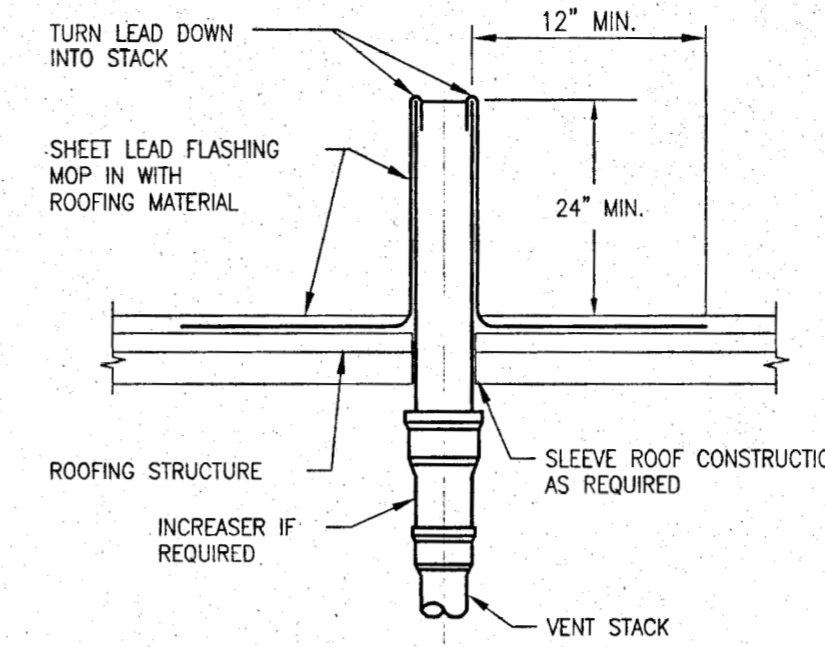
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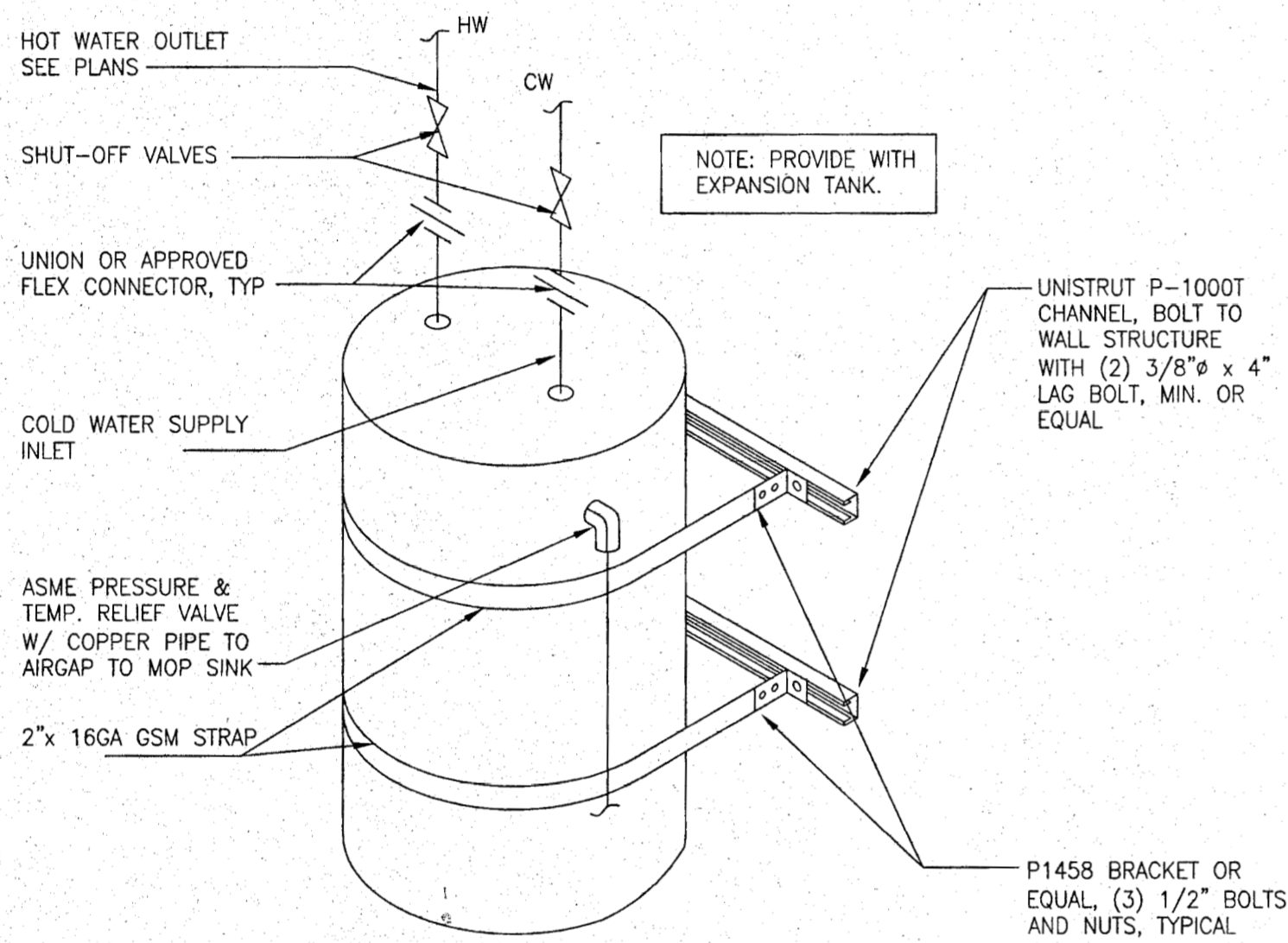
A GAS CONNECTION DETAIL
P3.1 SCALE: NOT TO SCALE



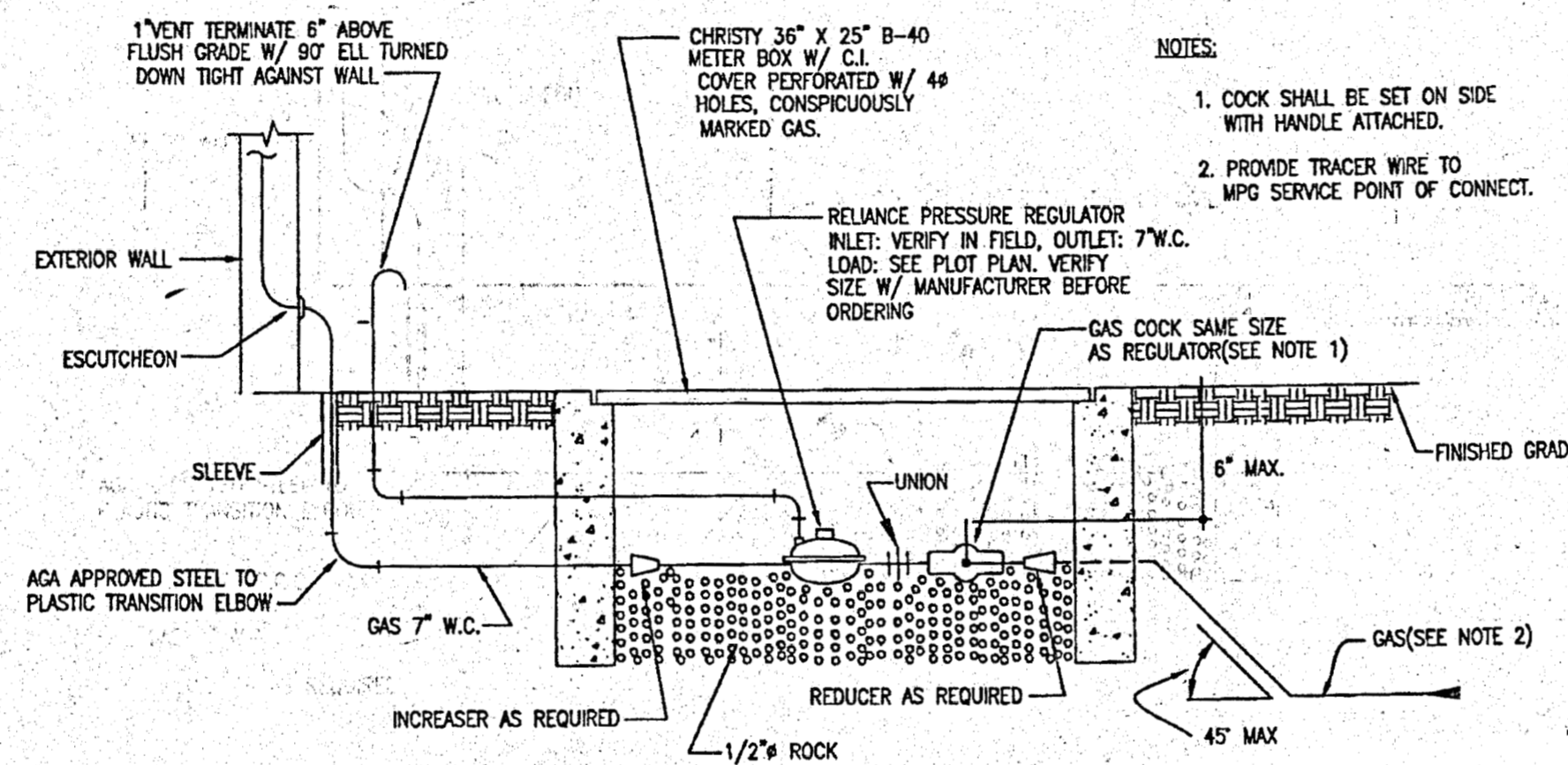
B WALL PIPE SUPPORT DETAIL
P3.1 NOT TO SCALE



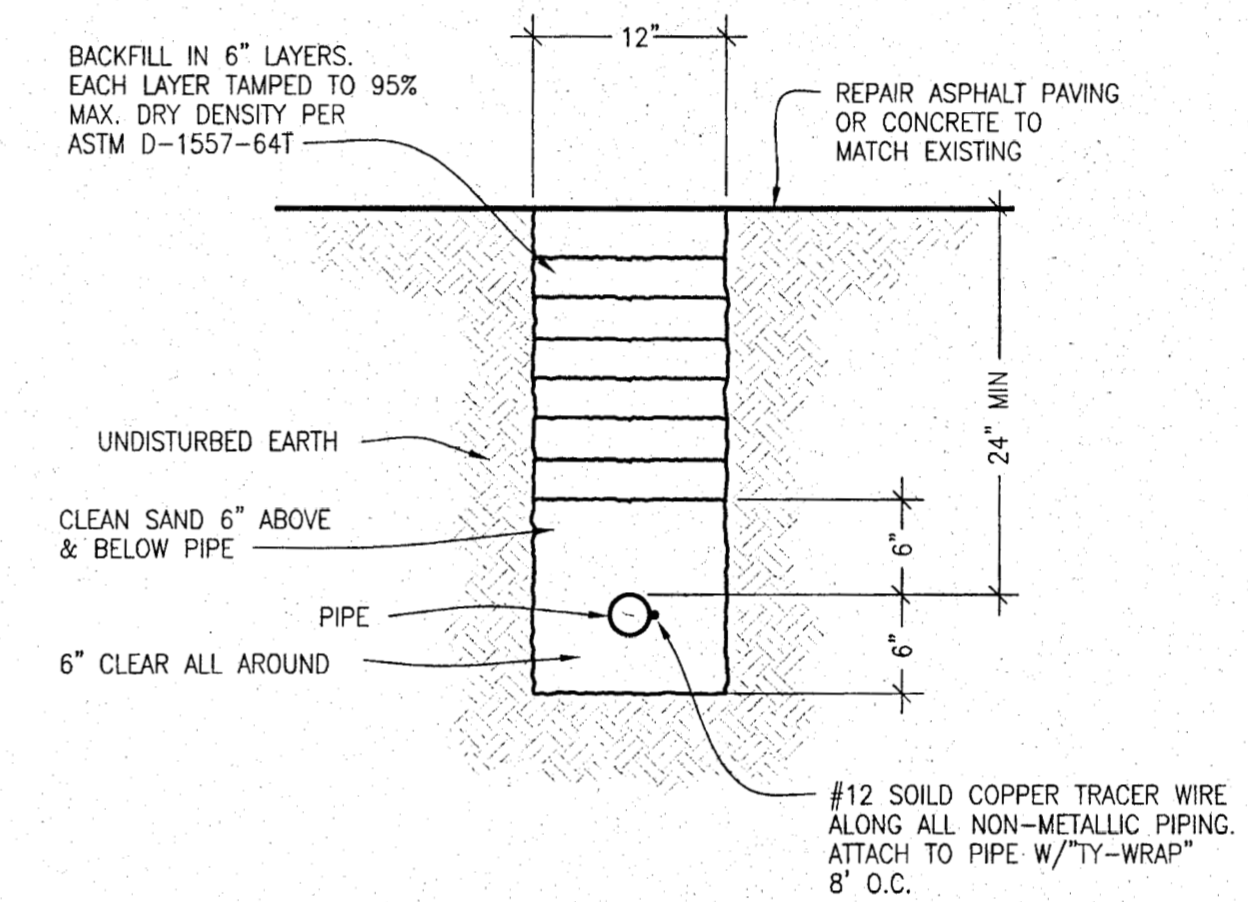
C VENT THRU ROOF DETAIL
P3.1 NOT TO SCALE



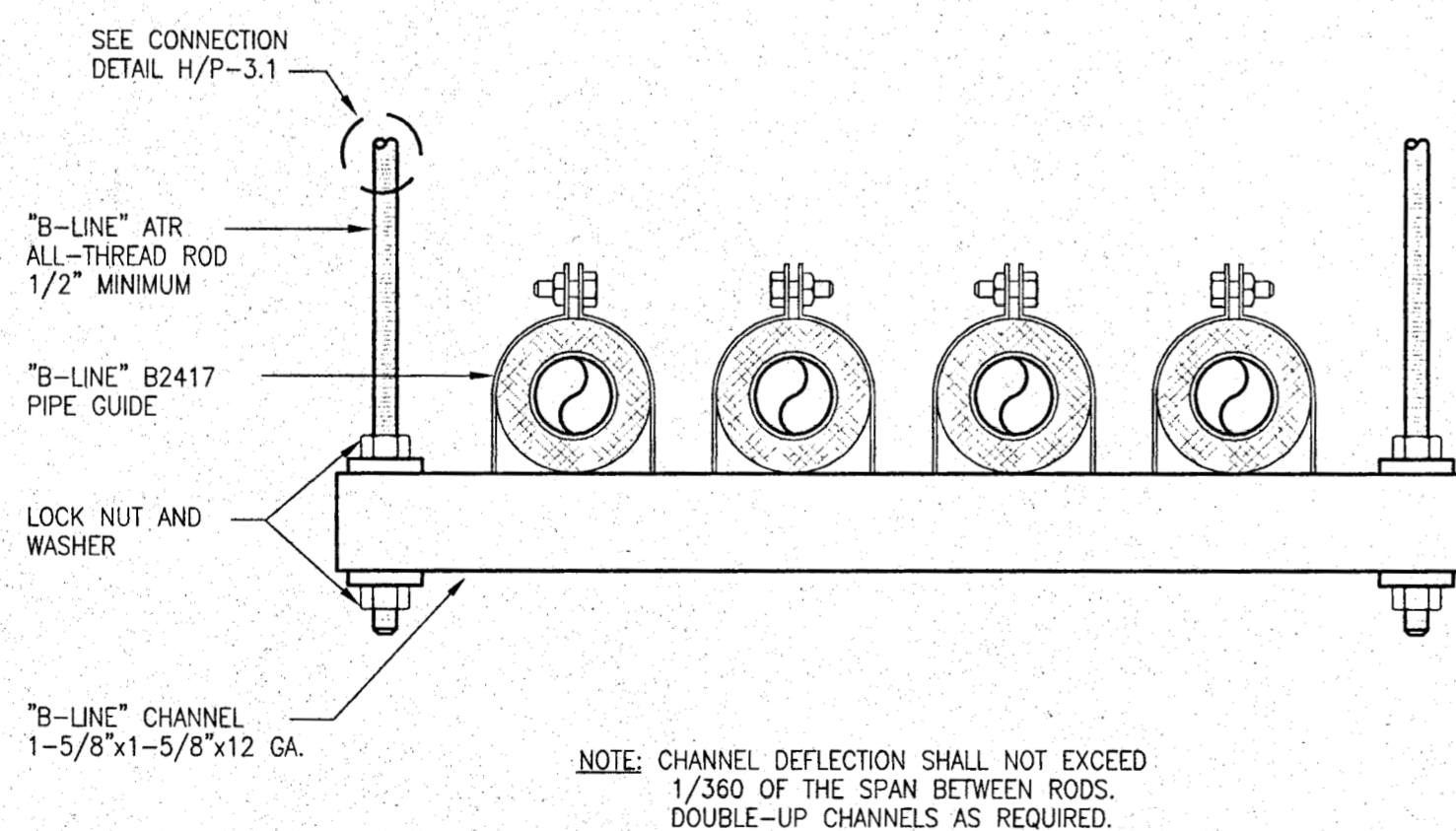
D WATER HEATER MOUNTING
P3.1 SCALE: NOT TO SCALE



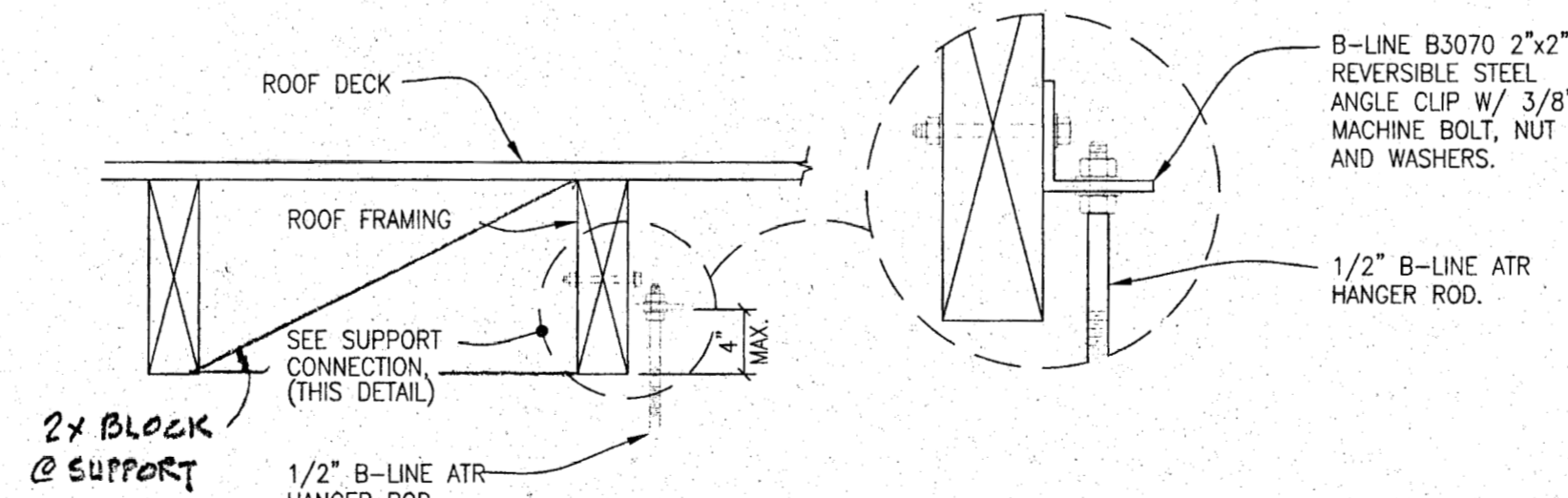
E GAS ENTRY DETAIL
P3.1 SCALE: NOT TO SCALE



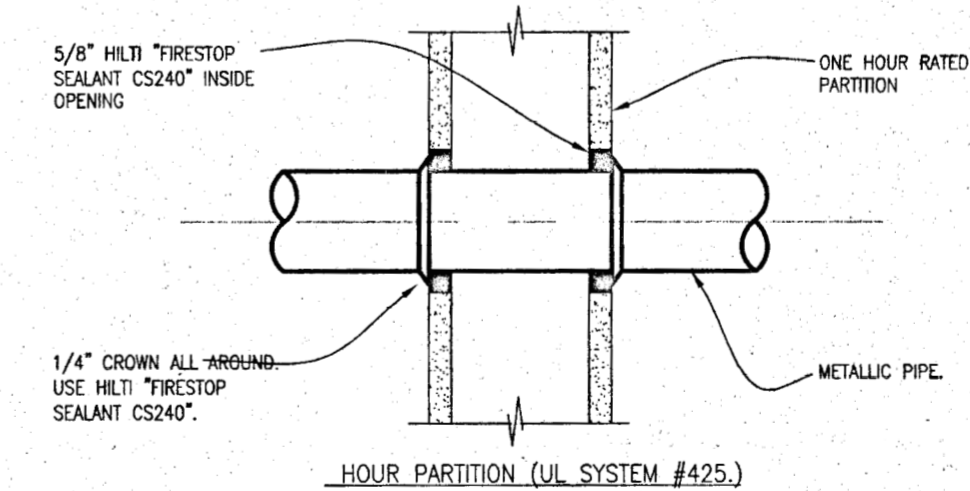
F PIPING TRENCH DETAIL
P3.1 SCALE: NOT TO SCALE



G PIPE SUPPORT DETAIL
P3.1 SCALE: NOT TO SCALE

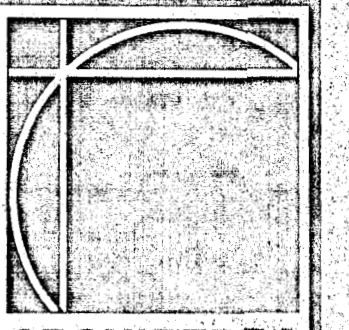


H SUPPORT CONNECTION DETAIL
P3.1 SCALE: NOT TO SCALE



J RATED PENETRATION DETAIL
P3.1 SCALE: NOT TO SCALE

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