

CODE REVIEW NOTES

1.0 DESIGN CODES / REGULATIONS-

THIS PROJECT SHALL COMPLY WITH TITLE 24 AND THE 2022 CALIFORNIA BUILDING CODE (CBC), CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA ELECTRICAL CODE (CEC), CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CGBSC), AND CALIFORNIA ENERGY CODE (CEC) 2022 EDITION

2.0 OCCUPANCY CLASSIFICATION / CONSTRUCTION TYPE ALLOWABLE AREAS AND HEIGHTS

BUILDING HEIGHT AND AREA LIMITATIONS							
SP	BUILDING NAME	OCCUPANCY CLASSIFICATION	CONSTRUCTION TYPE	ALLOWABLE AREA	PROPOSED AREA	ALLOWABLE HEIGHT	PROPOSED HEIGHT
S1	WINERY/CRUSH PAD	F-2 WINERY	V-B	52,000	5,890 **	60	24
S1	ACCESSORY TASTING	B TASTING ROOM	V-B	36,000	710 **	60	35
S1	ACCESSORY LAB/OFFICE FOOD PREP, REST RMS	B BUSINESS	V-B	36,000	925 **	60	20

MIXED OCCUPANCY TWO-STORY BUILDING

MIXED USE AND OCCUPANCY, 508.3 NON-SEPARATED OCCUPANCIES, MOST RESTRICTIVE ALLOWANCES FOR OCCUPANCY GROUP AND CONSTRUCTION TYPE DETERMINE ALLOWABLE HEIGHT AND AREA

NO SEPARATION IS REQUIRED BETWEEN NON-SEPARATED OCCUPANCIES

** 18,760 SF SPRINKLERED NON-SEPARATED OCCUPANCIES < 22,000

3.0 FIRE PROTECTION

FIRE PROTECTION ANALYSIS:

ALL AREAS OF THE NEW CONSTRUCTION EQUIPPED WITH NEW AUTOMATIC SPRINKLER SYSTEM. BUILDING IS A SINGLE BUILDING FOR PURPOSES OF ALLOWABLE AREA, HEIGHT AND FIRE SEPARATION DISTANCES.

TABLE 601

BUILDING ELEMENT	FIRE RESISTANCE RATING V-B
PRIMARY STRUCTURAL FRAME	0
INTERIOR BEARING WALLS	0
EXTERIOR BEARING WALLS	0
EXTERIOR NON-BEARING WALLS	0
NON-BEARING INT. PARTITION WALLS	0
ROOF CONSTRUCTION & SECONDARY MEMBERS	0

PROJECT IS PLANNED WITHIN THE WILDLAND-URBAN INTERFACE (WUI)

CBC CHAPTER 7A DETACHED COMMERCIAL BUILDING.

1. VEGETATION MANAGEMENT: FLAMMABLE VEGETATION OR COMBUSTIBLE GROWTH SHALL BE 30 FT FROM ALL SIDES OF THE BUILDING.

2. NO SPACE IS PROPOSED BETWEEN ROOF COVERING AND ROOF DECKING,

3. ROOF VALLEYS, METAL FLASHING SHALL NOT BE LESS THAN .019 INCH (.48 MM) NO. 26 GA INSTALLED OVER A MIN 36" WIDE UNDERLAYMENT CONSISTING OF ONE LAYER OF NO 72 ASTM CAP SHEET RUNNING THE FULL LENGTH OF THE VALLEY.

4. THERE ARE NO ROOF OR CORNICE VENTS.

5. EXTERIOR WALLS ARE NON COMBUSTIBLE MATERIAL, 3/2" SHOTCRETE MIN.

6. EXTERIOR PORCH CEILINGS: ARE IGNITION RESISTANT STEEL B DECKING. FLOOR PROJECTIONS ARE SIMILARLY IGNITION RESISTANT AND NON-COMBUSTIBLE.

7. EXTERIOR WINDOWS AND GLAZED DOOR ASSEMBLIES SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 20 MINUTES

2022 CBC 721.4.2 METHODS FOR CALCULATING FIRE RESISTANCE OF MULTI-WYTH WALLS.

A MULTI-WYTHE WALL HAS A GREATER FIRE-ENDURANCE PERIOD THAN A SIMPLE SUMMATION OF FIRE-ENDURANCE PERIODS OF THE VARIOUS LAYERS. THIS IS NUMBER 1 OF HARMATHY'S RULES WHICH FORMS THE FOUNDATION FOR EXTENDING THE COLLECTED EMPIRICAL DATA TO ANALYZE BUILDING ASSEMBLIES. THE EQUATION FOR DETERMINING ESTIMATED FIRE ENDURANCE OF MULTI-WYTHE WALL BASED ON THE HEAT TRANSMISSION END POINT IS: CBC 721.4.2 (EQUATION 7-11)

$$R = (R_1^{.16} + R_2^{.16} + \dots + R_n^{.16})^{.16}$$

WHERE

R = TOTAL FIRE ENDURANCE RATING IN MINUTES

R etc = FIRE ENDURANCE IN MINUTES OF EACH INDIVIDUAL WYTHE (OR COMPONENT LAMINA)

FIRE RESISTANCE OF SMS WALL IS CALCULATED AS FOLLOWS:

R₁ = 3/2" OF SILICEOUS AGGREGATE CONCRETE = 11.3

R₂ = 1/2" EPS PANEL (DENSITY OF 1.8 LB/CF COMPLIES W/ ASTM C578 TYPE II, HAS A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DENSITY INDEX OF 450 OR LESS) 8/8" EXPANDED URETHANE FOAM, 2LB./CF DENSITY, 2 1/2" EPS PANEL. FIRE RESISTANCE IS GREATER THAN 1" AND ASSUMED TO BE 5 MINUTES: THEREFORE R = 2.5** (CBC 722.2.1.2.2) THE CONCRETE ACTS AS AN IGNITION BARRIER ON BOTH FACES.

$$R = (11.3 + 2.5 + 11.3)^{.16} = 240 \text{ MIN.} = 4 \text{ HRS. MIN.}$$

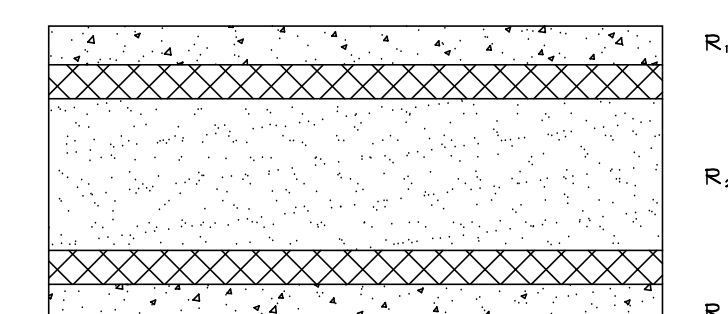


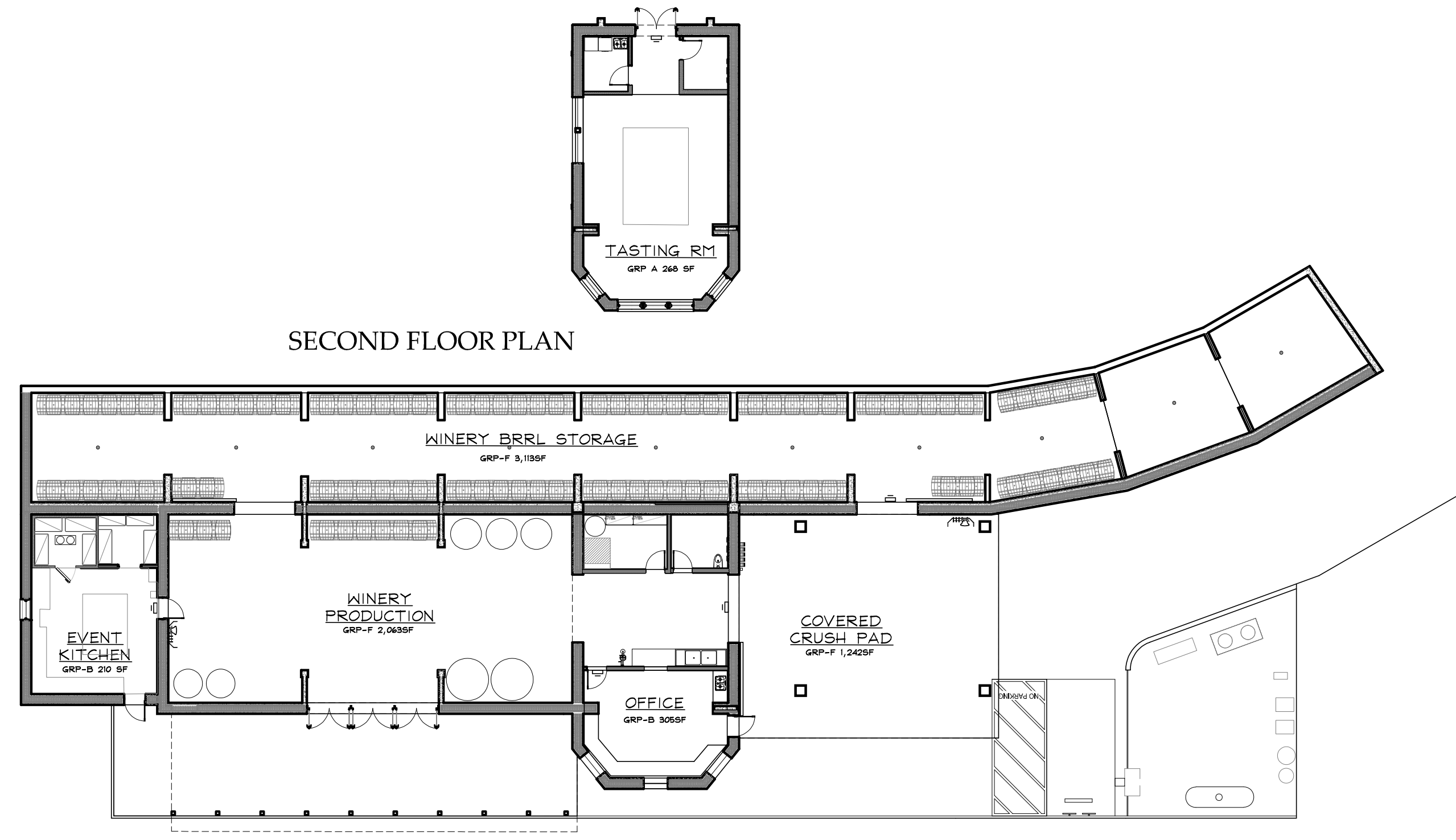
FIGURE 1. ENERGY MASS WALL PLAN SECTION

4.0 EXIT REQUIREMENT

DESIGN OCCUPANT LOAD: (SEC. 1004.1) (SEE CHART ON EXIT PLAN A 0.2)

ACCESSIBLE MEANS OF EGRESS (SEC. 1007) - ALL FLOOR LEVELS EXIT DIRECTLY TO ADJACENT GRADE WITH ACCESSIBLE ROUTES FROM ACCESSIBLE PARKING TO ALL ENTRANCES.

EXIT ACCESS (SEC. 1016) MEANS OF EGRESS ARE NOT PROHIBITED THROUGH ADJOINING OR INTERVENING ROOMS WHERE ADJOINING ROOMS AND THE AREA SERVED ARE ACCESSORY TO EACH OTHER, ARE NOT A GROUP H OCCUPANCY AND PROVIDE A DISCERNABLE PATH OF EGRESS TRAVEL TO AN EXIT.



1 PLUMBING FIXTURE OCCUPANT LOAD DIAGRAM
SCALE: 1/16" = 1'-0"

6.0 PLUMBING FIXTURES REQUIRED: 2022 CPC CHAPTER 4

TASTING ROOM (SECOND LEVEL)

TOTAL OCCUPANT LOAD = 23 < 50

CPC 422.2 SEPARATE FACILITIES: EXCEPTION (3) IN BUSINESS AND MERCANTILE OCCUPANCIES WITH A TOTAL OCCUPANT LOAD OF 50 OR LESS INCLUDING CUSTOMERS AND EMPLOYEES, ONE TOILET FACILITY, DESIGNED FOR USE BY NO MORE THAN ONE PERSON AT A TIME, SHALL BE PERMITTED FOR BOTH SEXES.

THE TASTING ROOM IS A SMALL ASSEMBLY SPACE PER CBC 303.1.2 AND CAN BE CLASSIFIED AS B OCCUPANCY QUALIFYING FOR EXCEPTION (3) ABOVE. THEREFORE, ONE UNISEX FACILITY FOR USE BY ONE PERSON AT A TIME SHALL SUFFICE.

WINERY PRODUCTION AND BARREL STORAGE WITH ACCESSORY OFFICE/LAB SPACE LOCATED ON THE FIRST (LOWER) FLOOR

TOTAL COMBINED OCCUPANT LOAD = 9 < 10

CPC 422.2 SEPARATE FACILITIES: EXCEPTION (2) IN OCCUPANCIES WITH A TOTAL OCCUPANT LOAD OF 10 OR LESS, INCLUDING CUSTOMERS AND EMPLOYEES, ONE TOILET FACILITY, DESIGNED FOR USE BY NO MORE THAN ONE PERSON AT A TIME, SHALL BE PERMITTED FOR USE BY BOTH SEXES.

SPECIAL EVENTS IN THE WINERY WILL REQUIRE ACCESS TO BOTH RESTROOMS DURING THE EVENT.

PLUMBING OCCUPANT LOADS					
ROOM NUMBERS	BUILDING USE	OCCUPANCY CLASSIFICATION	PLUMBING OCC. LOAD FACTOR	AREA	OCCUPANTS
	WINERY PRODUCTION	GROUP F	500	2063	4
	WINERY/CRUSH PAD	GROUP F	500	1088	2
	ACCESSORY LAB/OFFICE	GROUP B	150	305	2
	WINERY BRRL. STORAGE	GROUP S	2000	3113	1
	EVENT KITCHEN	GROUP B	50	210	4
	TASTING ROOM	GROUP A	50	477	16
					29

MINIMUM FIXTURES REQUIRED						
OCCUPANCY CLASSIFICATION	OCCUPANTS	WC MALE	WC FEMALE	URINALS	LAV'S MALE	LAV'S FEMALE
GROUP A-2 TASTING	8 M/F	1/200 = .005	1/200 = .005	1/200 = .005	1/150 = .007	1/150 = .007
GROUP B	4 M/F	3/50 = .06	3/50 = .06	3/100 = .03	3/75 = .04	3/50 = .06
GROUP F	3 M/F	1/50 = .02	1/50 = .02	N/A	1/50 = .02	1/50 = .02
GROUP S	1 M/F	1/100 = .01	1/100 = .01	N/A	1/200 = .005	1/200 = .005
FIXTURES REQUIRED:		.35 < 1	.71 < 1	.09 < 1	.15 < 1	.17 < 1
MOST RESTRICTIVE "B" OCC. 15 M/F		1:1-50	1:1-15	1:1-100	1:1-75	1:1-50

AN ALTERNATIVE ANALYSIS WAS PERFORMED IN THE CHART ABOVE TO CROSS CHECK MINIMUM PLUMBING FIXTURES.

PLUMBING FIXTURES REQUIRED BY OCCUPANT LOAD: 2022 CPC CHAPTER 4, TABLE A, OCCUPANT LOAD FACTOR.

TOTAL OCCUPANT LOAD = 30, HALF MALE, HALF FEMALE, B OCCUPANCY IS MOST RESTRICTIVE THEREFORE FACILITIES BASED ON B OCCUPANCY

TABLE 422.1 MINIMUM PLUMBING FACILITIES,

FIXTURES	REQUIRED	PROVIDED
WATER CLOSETS/ FEMALE	1	1
WATER CLOSETS/ MALE	1	1
URINALS	1	1
LAVATORIES/ FEMALE	1	1
LAVATORIES/ MALE	1	1
DRINKING FOUNTAIN	1	1
SERVICE SINK OR LAUNDRY TRAY	1	1

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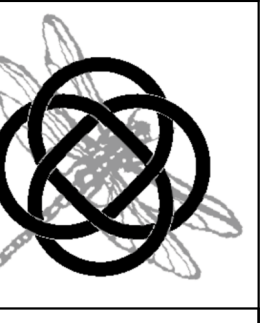
CODE REVIEW

MOOSE MOUNTAIN VINEYARDS

PLANNING REVIEW



INTEGRATED STRUCTURES, INC.
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Tel: (510) 735-9801



DATE: 12/11/23

DRAWN: ----

JOB: 15614 MMV

SHEET:

A 0.1

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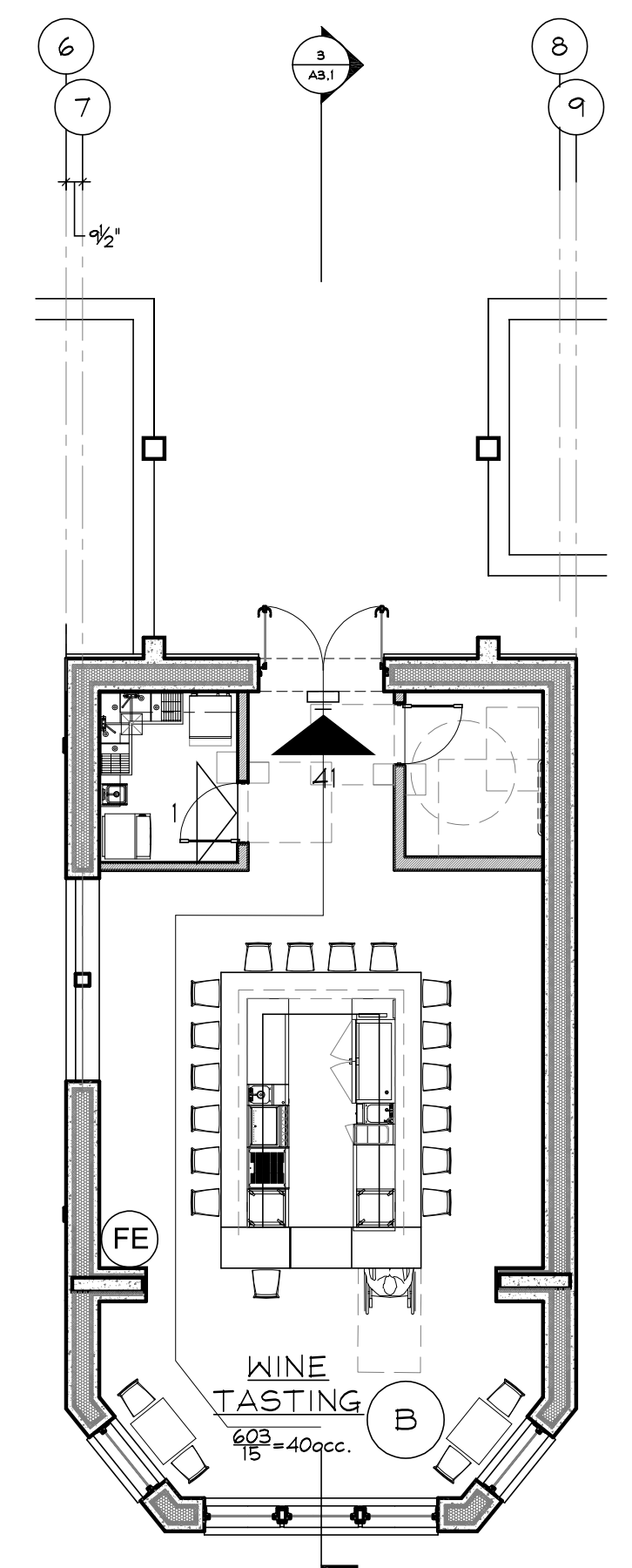
LEGEND

- F-2 OCCUPANCY GROUP
- STORAGE ROOM NAME
- ROOM SQUARE FOOTAGE
- 918sf = 30occ. NUMBER OF OCCUPANTS
- 300 OCCUPANT LOAD FACTOR
- 27 DIRECTION OF TRAVEL
- 27 COMBINED OCCUPANCY LOAD
- 6 DIRECTION OF TRAVEL
- 6 INDIVIDUAL ROOM OCCUPANCY
- ILLUMINATED EXIT SIGN (1013.1) AND TACTILE SIGNAGE COMPLIANT WITH 1013.4
- EMERGENCY EGRESS LIGHT
- ACCESSIBLE ROUTE OF TRAVEL
- INTERNATIONAL SYMBOL OF ACCESSIBILITY
- FE PORTABLE FIRE EXTINGUISHER (CFC 906)

BUILDING CODE ANALYSIS

CODE INFORMATION	KITCHEN	BRRL. STORAGE	WINERY	TASTING RM OFFICES
DESCRIPTION OF USE	EVENT KITCHEN	WINE STORAGE	WINE PRODUCTION	BUSINESS
OCCUPANCY GROUP	F-1	S-2	F-1	B*
TYPE OF CONSTRUCTION	V-B	V-B	V-B	V-B
SPRINKLERS (YES OR NO)	YES	YES	YES	YES
STORIES	ONE	ONE	ONE	TWO
ALLOWABLE BUILDING HEIGHT	60 FT.	60 FT	60 FT	60 FT
BUILDING HEIGHT	20 FT	3 FT	24 FT	35 FT
ALLOWABLE FLR AREA	22,000 SF	22,000 SF	24,000 SF	36,000 SF
FLOOR AREA	478 SF	3,133 SF	1,588 SF	1,061 SF
CBC OCCUPANT LOAD	3	10	8	35

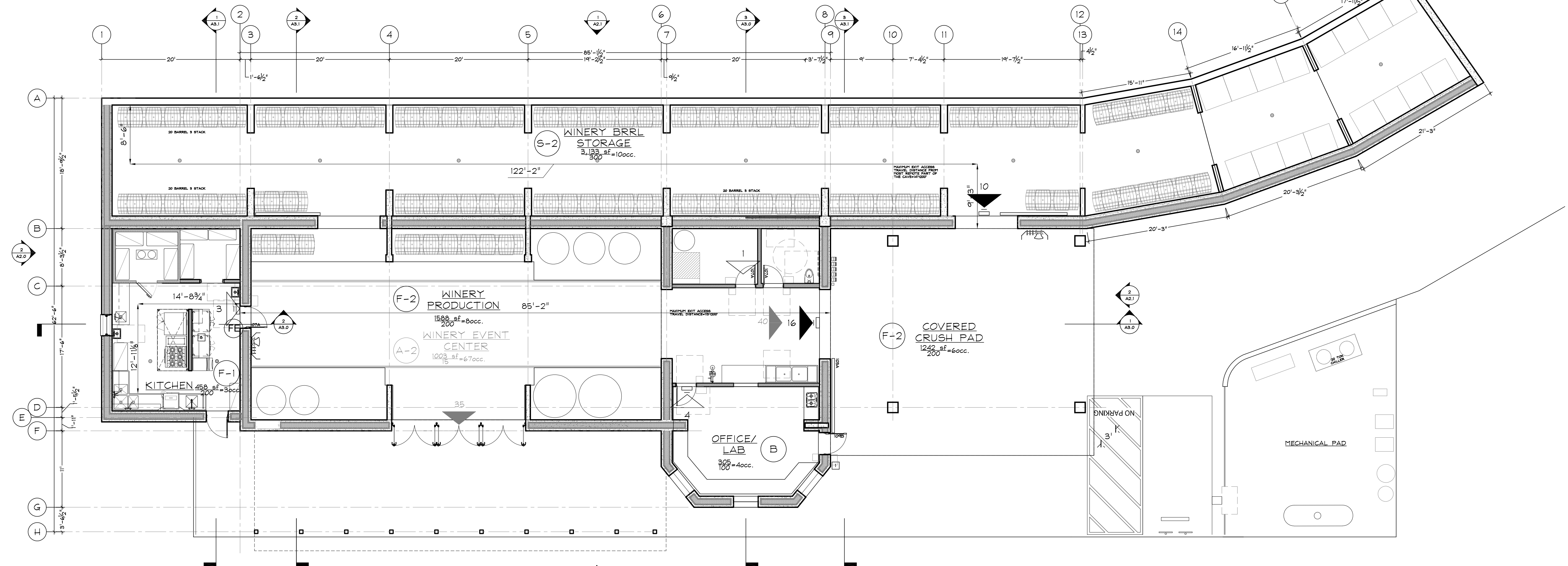
* SMALL ASSEMBLY SPACES PER 303.1.2 ROOMS OR SPACES WITH OCCUPANT LOAD OF LESS THAN 50 AND ACCESSORY TO ANOTHER OCCUPANCY OR SPACES USED FOR ASSEMBLY THAT ARE LESS THAN 750 SF IN AREA AND ACCESSORY SHALL BE CLASSIFIED AS GRP B OCCUPANCIES



RM #	USE	AREA	OCCUPANCY LOAD FACTOR	OCCUPANCY	PATH OF TRAVEL DIST.	EXIT ACCESS DIST.	MAX. EXIT ACCESS DIST.
109	BUSINESS OFFICES/LAB	305	1/100 SF GROSS	3	-	57	300
200	WINE TASTING	603	1/5 SF NET	40	-	39	300
100	STORAGE, BRRLS, EQUIP	3133	1/300 SF	10	-	139	400
107	ELECTRICAL	99	1/300 SF	1	-	35	400
106	WINERY PRODUCTION	1588	1/200 SF GROSS	8	0	95	400
105	EVENT KITCHEN	478	1/200 SF GROSS	3	0	113	400

* SEE SHEET A1.0 FOR BUILDING ROOM NUMBERS
 ** DESIGN OCCUPANT LOAD AND THE COMMON PATH OF EGRESS TRAVEL DISTANCE FOR ALL SPACES DO NOT EXCEED VALUES LISTED IN CBC TABLE 1006.2.1. 100 FT FOR B, F & S OCCUPANCIES. THEREFORE: ONE EXIT FROM ALL SPACES REQUIRED.
 NOTE: CBC 1010.1.6 ALL LANDINGS HAVE A WIDTH OF THE DOOR. DOORS IN THE FULLY OPEN POSITION DO NOT REDUCE A REQUIRED DIMENSION BY MORE THAN 7". NO LANDING AT A DOOR SERVES AND OCC. LOAD OF MORE THAN 50.

1 CODE REVIEW 2ND FLOOR PLAN
 SCALE: 1/8" = 1'-0"



2 CODE REVIEW FLOOR PLAN
 SCALE: 1/8" = 1'-0"

REVISIONS BY:

EXITING PLAN

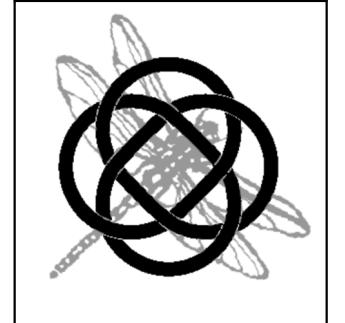
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 3180 PASEO VISTA AVE. SAN MARTIN CA 95046
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PLAN REVIEW SET



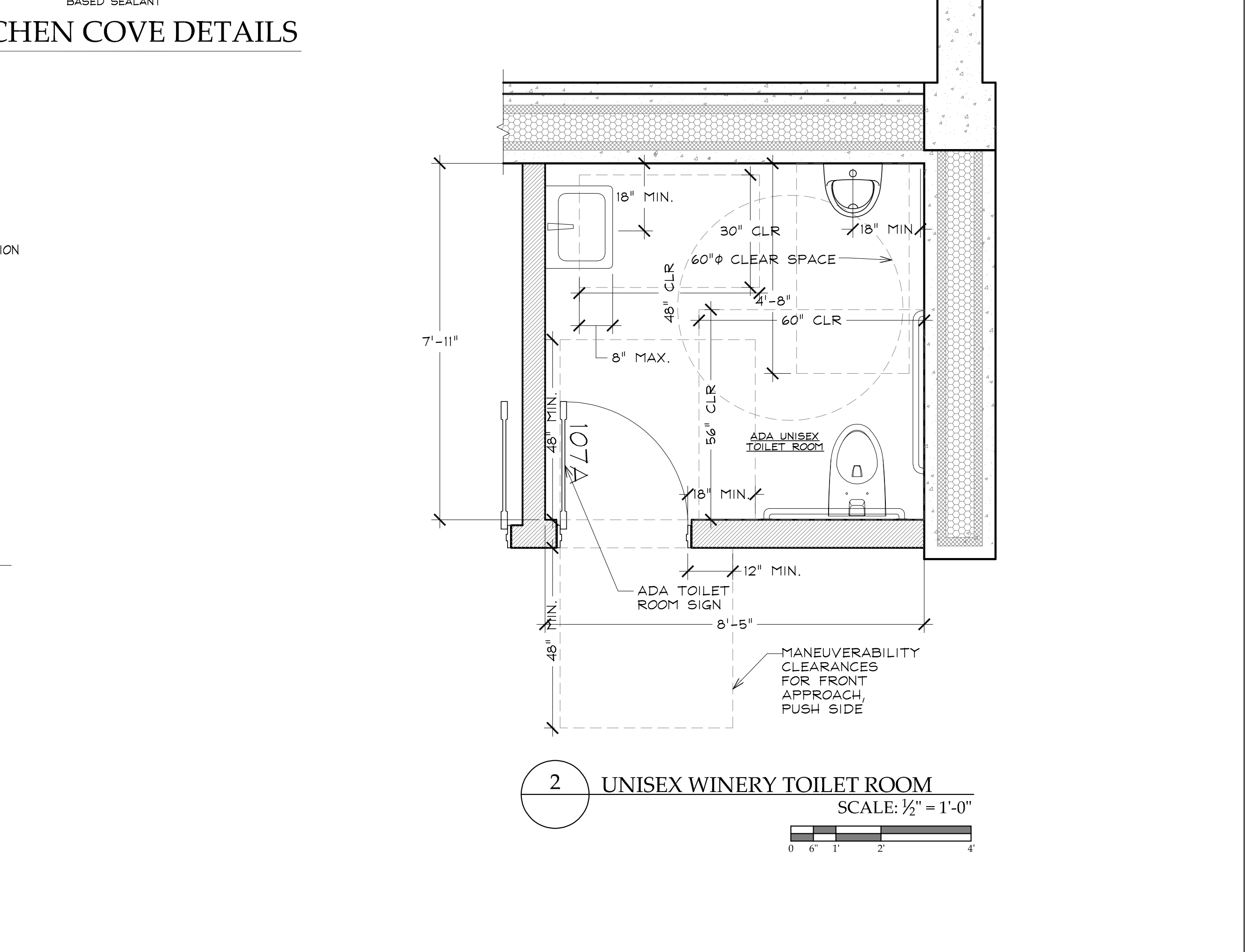
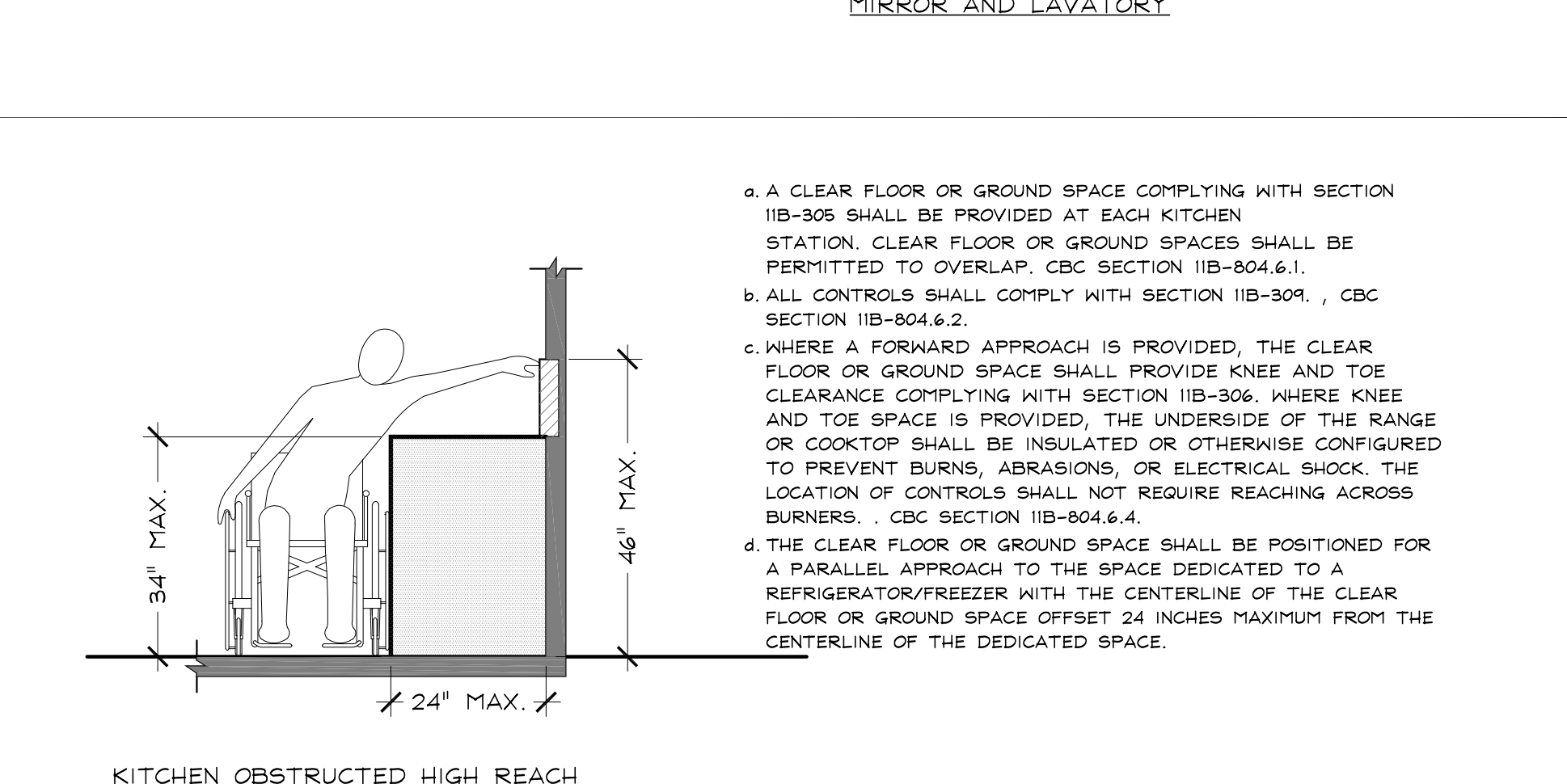
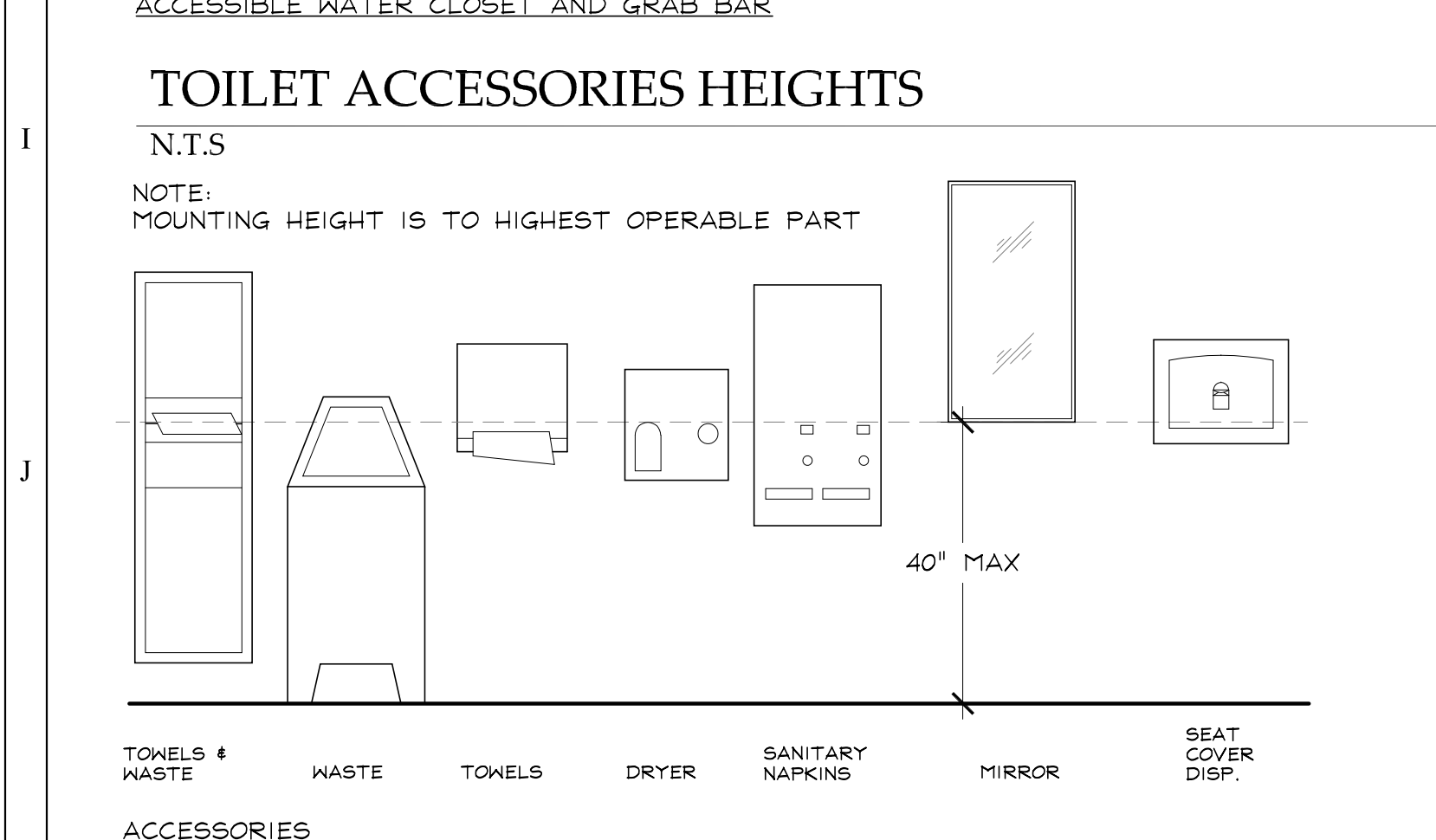
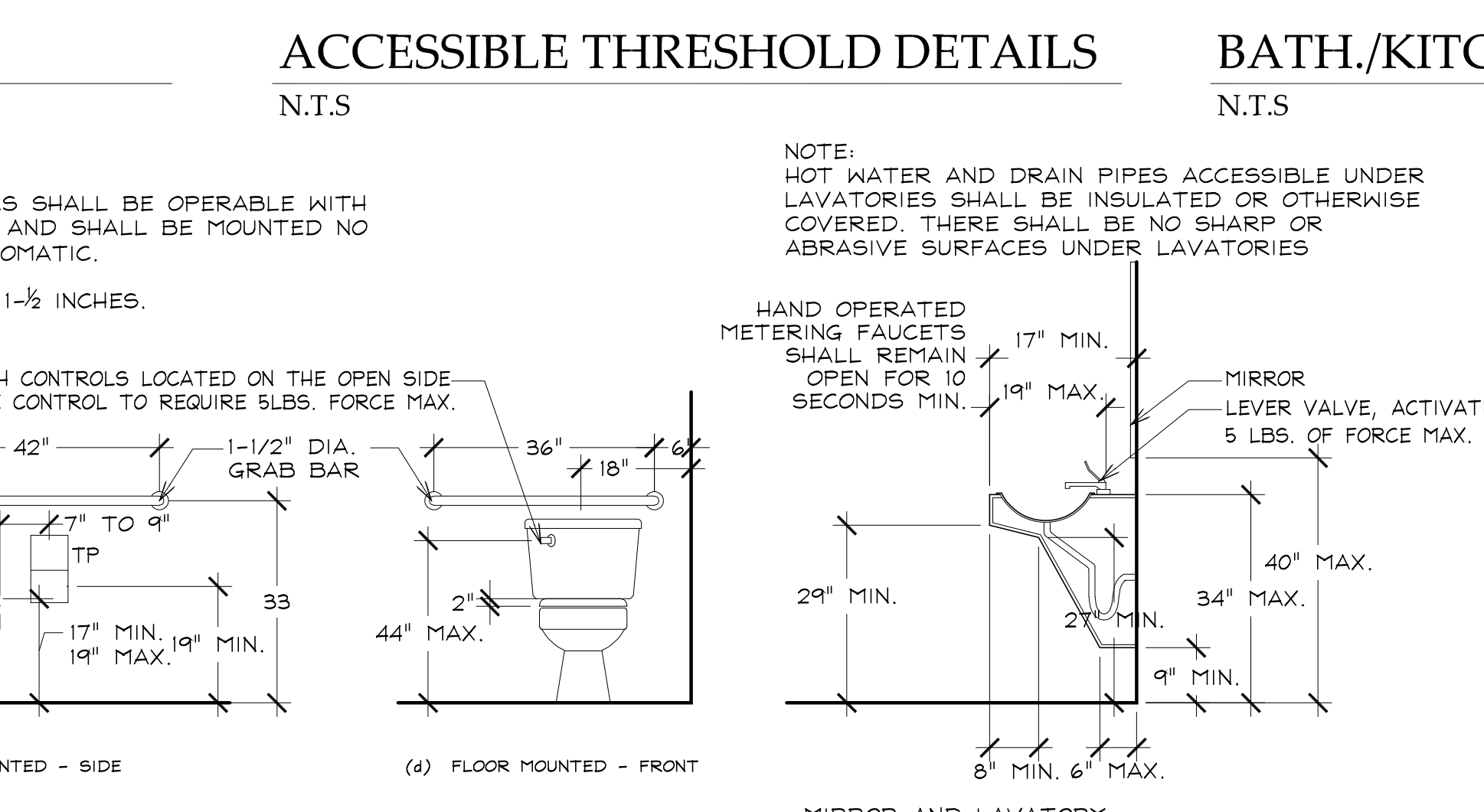
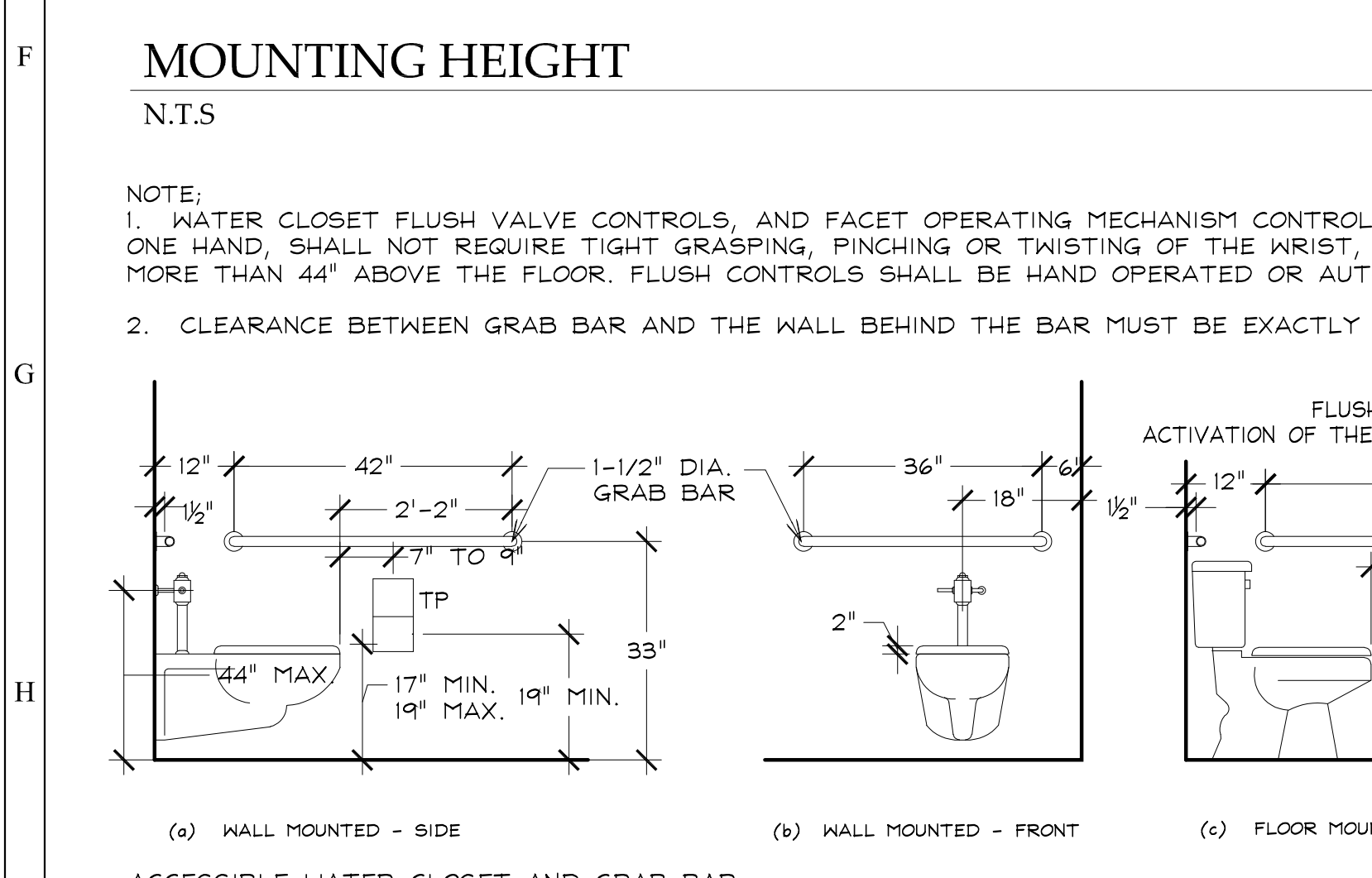
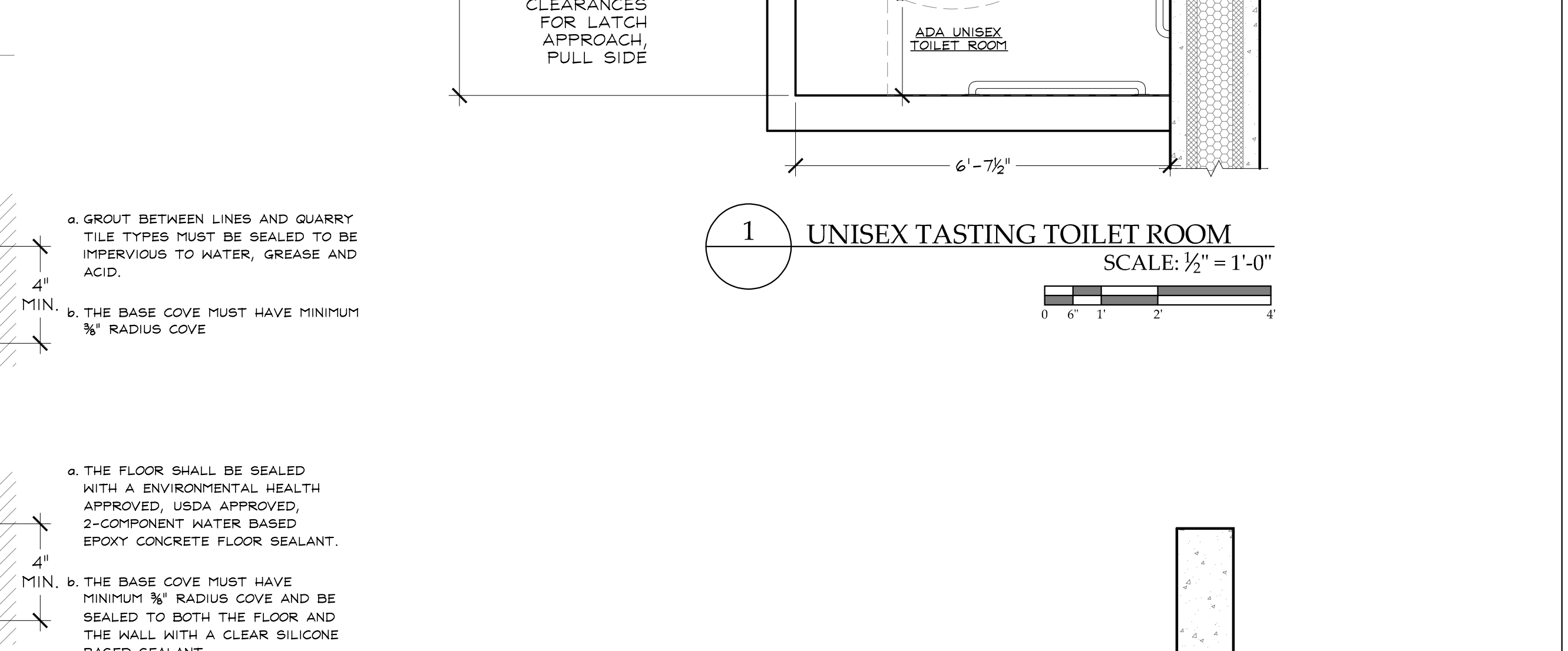
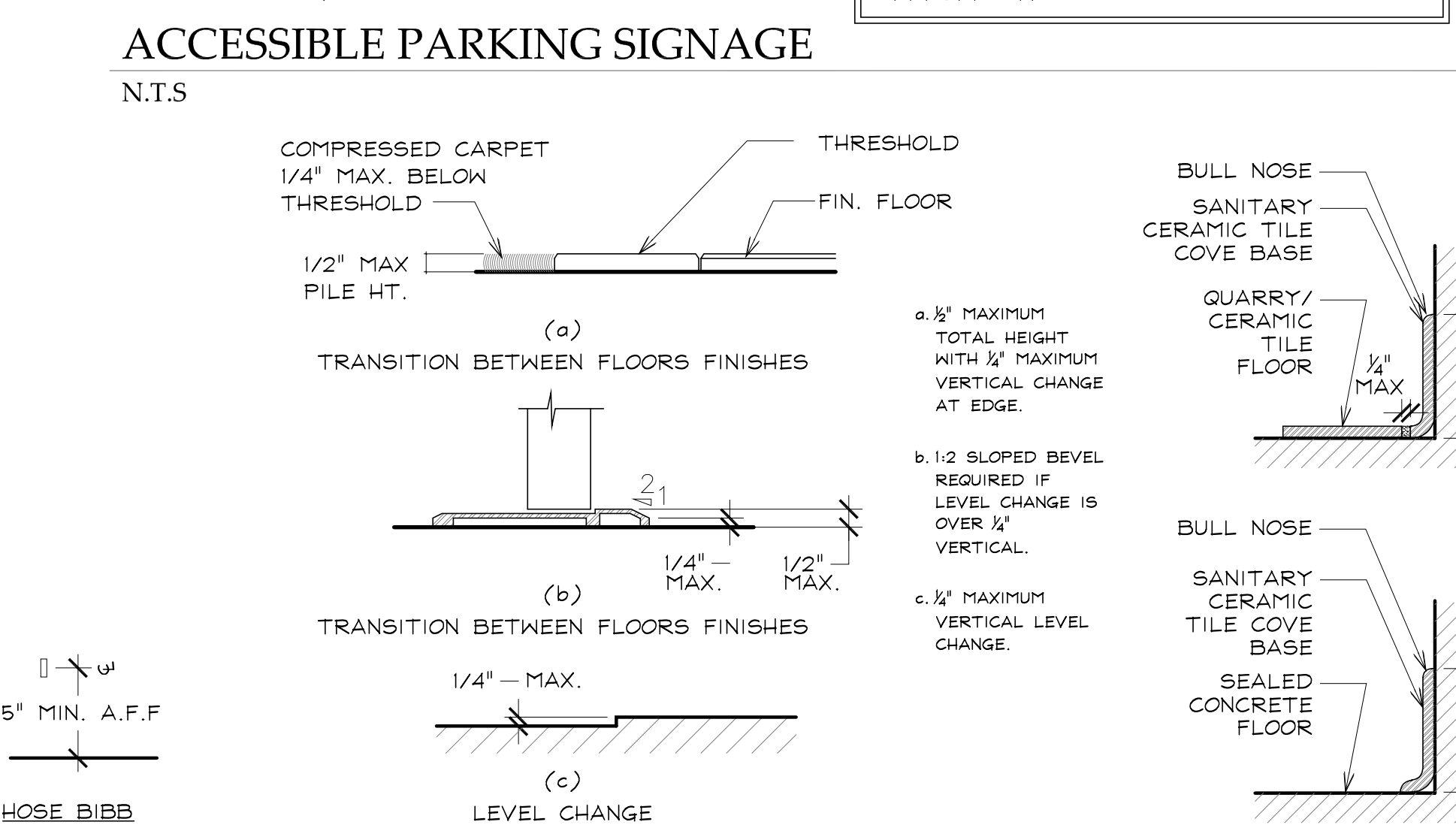
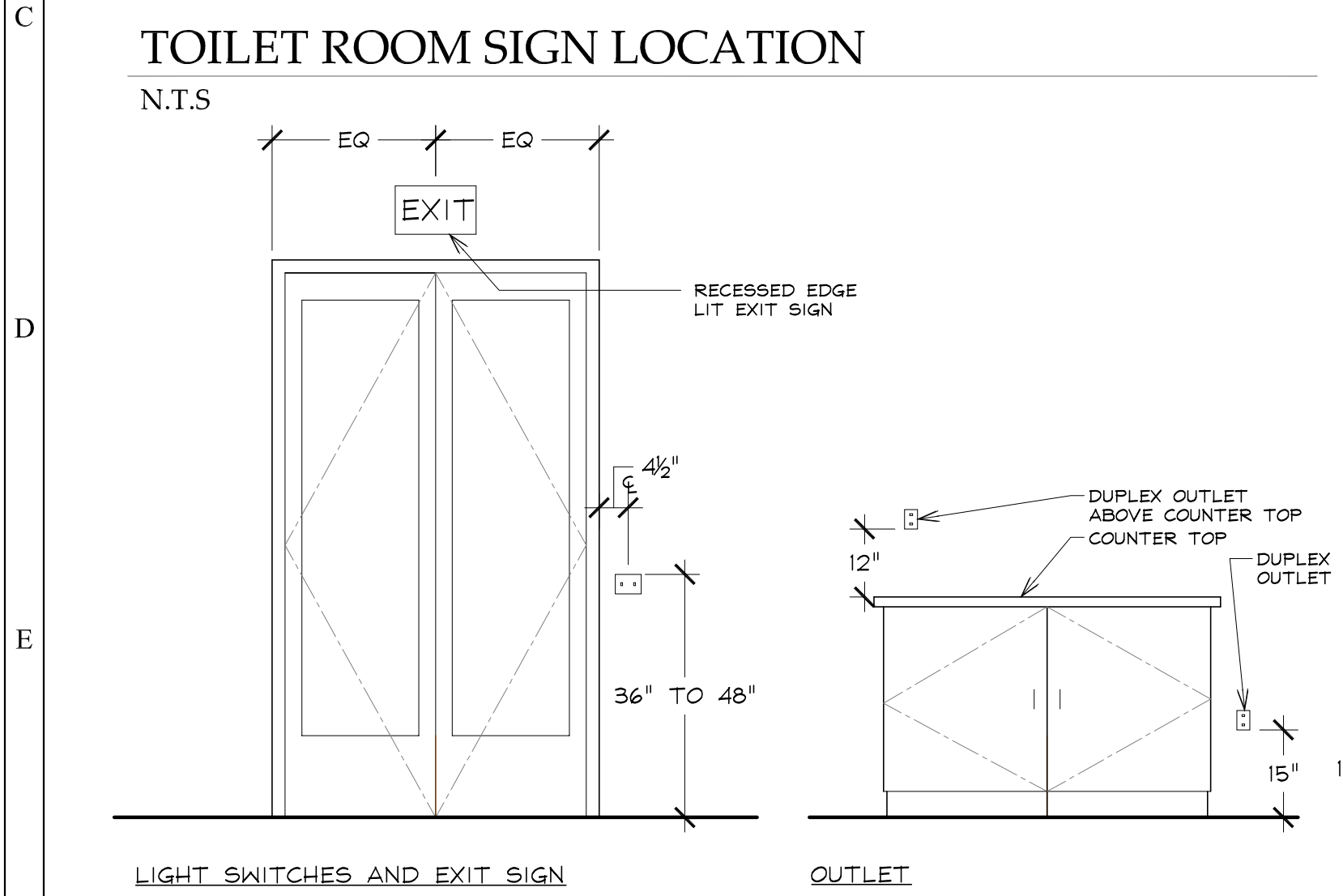
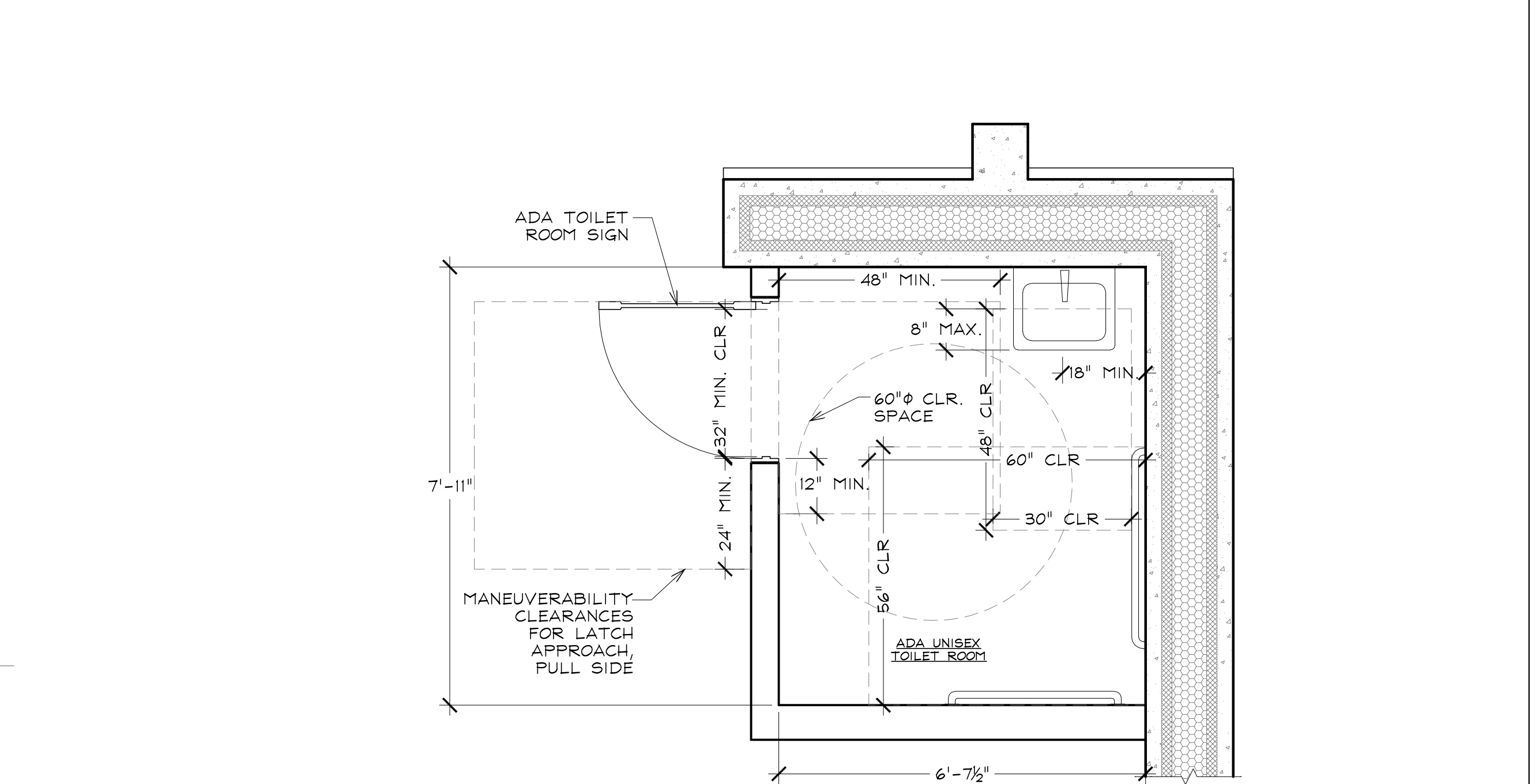
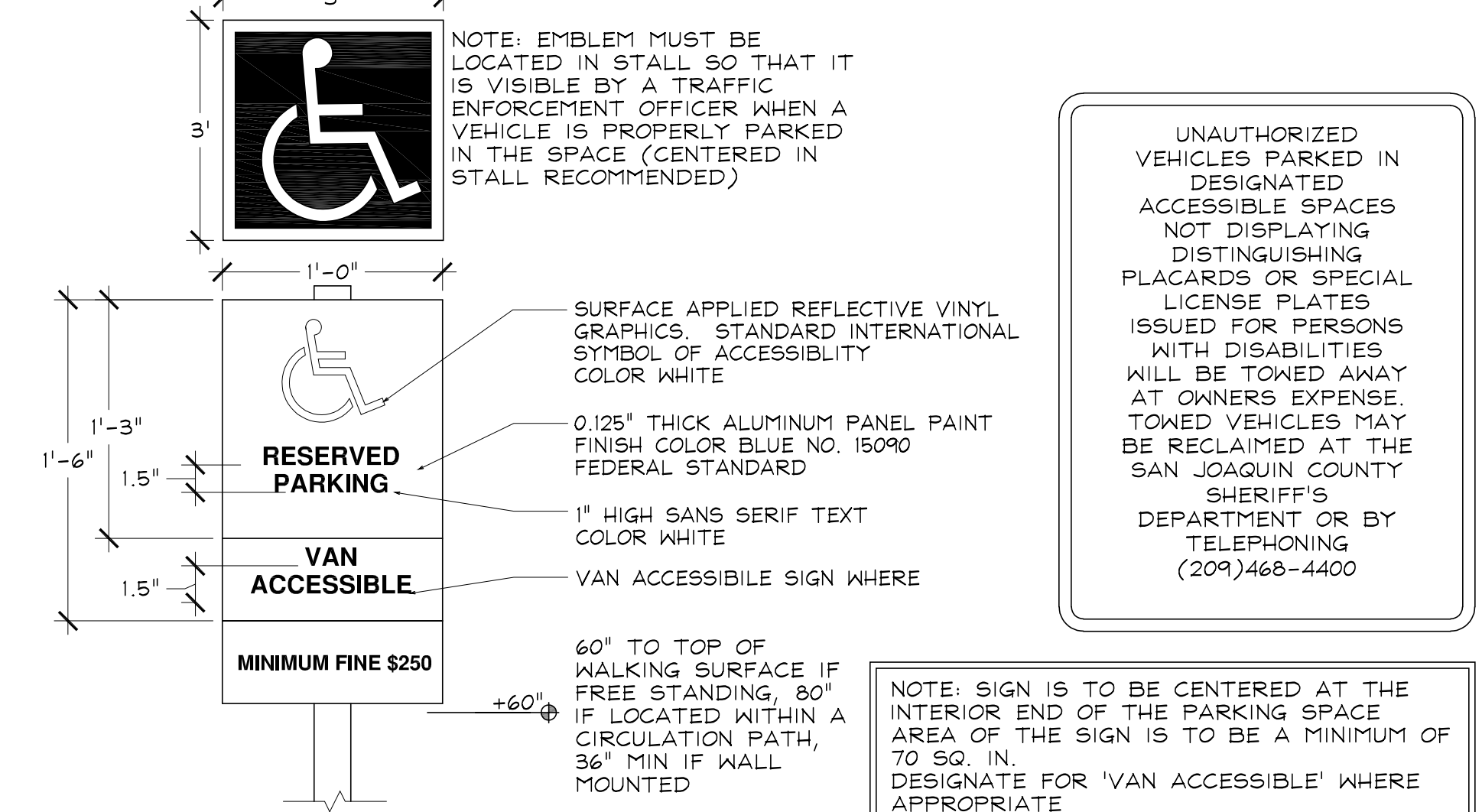
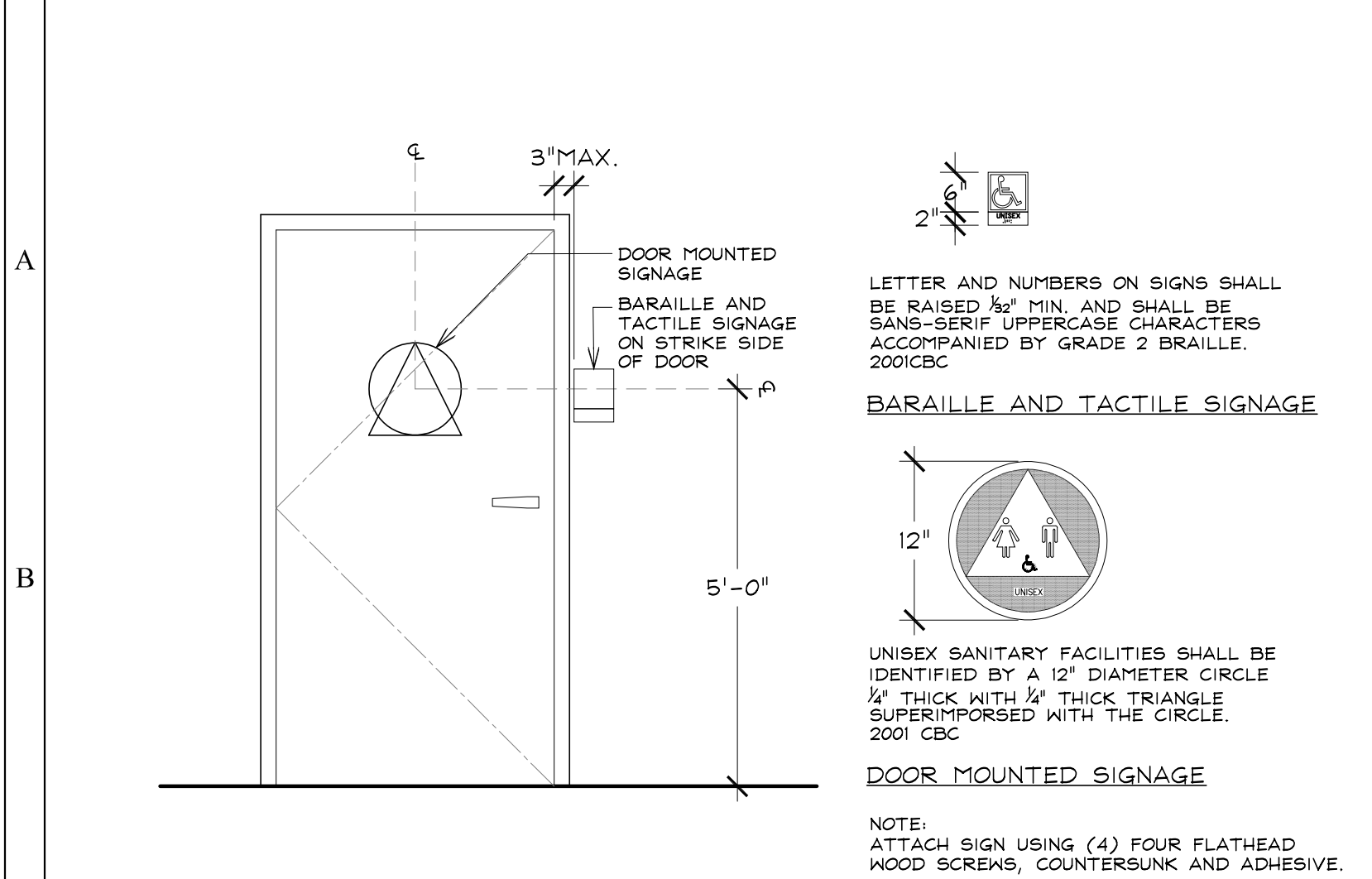
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ACCESSIBILITY STANDARD

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PLAN REVIEW SET



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GENERAL NOTES:

- THIS PROJECT IS A NEW CONSTRUCTION. THE PLANS AND SPECIFICATIONS INDICATE THE GENERAL EXTENT OF THE WORK. CONTRACTOR SHALL VISIT SITE, VERIFY EXISTING CONDITIONS, AND REPORT ANY DISCREPANCIES NOTED TO THE ARCHITECT PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS NECESSARY TO ACCOMPLISH THE WORK WHETHER OR NOT SPECIFIED AND/OR INDICATED.
- SITE UTILITY CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR TO REPAIR WALL, FLOOR, AND CEILING SURFACES AS REQUIRED DUE TO DEMOLITION OR INSTALLATION WORK.
- CUTTING OR CORING OF STRUCTURAL MEMBERS OR FOOTINGS IS PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- CONTRACTOR SHALL VERIFY THAT THE ELECTRICAL CONNECTIONS TO THE UNITS, INCLUDING CIRCUIT PROTECTION, CONFORM TO UNIT LABELS AND MANUFACTURER'S DIRECTIONS. WHERE WIRE SIZES SHOWN ON DRAWING EXCEED MANUFACTURER'S RECOMMENDATIONS, THE DRAWINGS SHALL GOVERN. ALL WIRING SHALL BE PER THE NATIONAL ELECTRICAL CODE.
- ALL CONTROL WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE SITE PIPING CONTRACTOR.
- FLASHING AND WEATHERPROOFING AT EXTERIOR PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.
- FOR ROOF PENETRATIONS WITHOUT CURBS, PROVIDE WEATHERPROOF FLASHING PER SMACNA ARCHITECTURAL SHEET METAL MANUAL AND DRAWING NOTES.
- LABEL ALL PIECES OF EQUIPMENT WITH MARK MATCHING SCHEDULE OR EQUIPMENT LIST WITH ENGRAVED PLASTIC LABELS WITH MINIMUM 1/4" HIGH LETTERS. LABELS EXPOSED TO WEATHER SHALL BE ENGRAVED BRASS.
- PRIME AND PAINT ALL EXPOSED PIPING PER ARCHITECTURAL SPECIFICATIONS. PAINT SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND CONTENT LIMITS: FLATS < 50 GRAMS PER LITER, NON-FLATS < 100 GRAMS PER LITER.
- COORDINATE WITH ELECTRICAL ON REQUIRED POWER OUTLETS AND LIGHT SWITCHES NEAR PLUMBING EQUIPMENT.
- BRACE ALL GAS PIPING THAT IS 1" NOMINAL OR LARGER. BRACE ALL PIPING IN MECHANICAL ROOMS THAT IS 1 1/4" NOMINAL OR LARGER. BRACE ALL PIPING 2 1/2" NOMINAL OR LARGER. PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED, NEED NOT BE BRACED.
- ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN IS NEW UNLESS OTHERWISE NOTED.

LIST OF GOVERNING CODES:

- 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
- TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

SITE UTILITIES

- SCOPE** : PROVIDE SITE UTILITY SYSTEMS, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND SERVICES.
- COORDINATION** : COORDINATE WITH GENERAL CONTRACTOR AND ALL OTHER TRADES.
- CODES** : THIS WORK SHALL CONFORM TO ALL LOCAL CODES, CALIFORNIA BUILDING CODE, CALIFORNIA MECHANICAL CODE AND CALIFORNIA PLUMBING CODE.
- FEES** : CONTRACTOR SHALL PAY ALL FEES IN CONNECTION WITH THIS WORK. CONNECTION CHARGES BY OWNER.
- DRAWINGS** : DRAWINGS ARE SCHEMATIC. ALL EQUIPMENT LOCATIONS SHALL BE VERIFIED IN THE FIELD AND APPROVED BY OWNER OR OWNER REPRESENTATIVE.
- CUTTING** : REPAIR ALL SURFACES CUT IN THIS WORK TO MATCH ORIGINAL. NO CUTTING OF STRUCTURAL ELEMENTS IS ALLOWED WITHOUT PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
- MAINTENANCE** : ALL EQUIPMENT SHALL BE ACCESSIBLE FOR MAINTENANCE.
- GUARANTEE** : ALL WORKMANSHIP, EQUIPMENT AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR AFTER DATE OF ACCEPTANCE.
- SUBMITTALS** : WITHIN 15 DAYS AFTER SIGNING A CONTRACT, PROVIDE SUBMITTALS ON ALL PLUMBING EQUIPMENT.
- STRUCTURAL** : CONTRACTOR SHALL CONSULT AND OBTAIN DIRECTION FROM THE STRUCTURAL ENGINEER ON STRUCTURAL SUPPORT OF ALL PROCESS PIPING AND PLUMBING EQUIPMENT.
- TESTING, ADJUSTING AND CLEANING** : TEST ALL PIPING, CLEAN OUTS, ETC. AS LISTED BELOW AND PROVIDE THE ARCHITECT WITH CERTIFIED COPIES OF TEST RESULTS. THE INSPECTION AUTHORITY HAVING JURISDICTION AND THE SUPERVISING ARCHITECT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO PERFORMANCE OF ALL TESTS SO THAT THEY MAY BE WITNESSED.

ALL WATER PIPING SHALL BE TESTED TO 100 PSIG WITH POTABLE WATER AND HELD FOR 2 HOURS WITHOUT DROP IN PRESSURE BEFORE IT IS COVERED AND CONCEALED. EQUIPMENT AND PERSONNEL SHALL BE PROTECTED FROM THIS TEST PRESSURE.

ALL PARTS OF THE DRAINAGE SYSTEM SHALL BE TESTED HYDRAULICALLY BY FILLING A STANDPIPE 10' HIGH WITH WATER. PIPING MAY BE TESTED IN SECTIONS BUT SHALL BE SUBJECTED TO A HEAD NOT LESS THAN 10 FEET. STAND PIPE INSTALLED FOR A HEAD TEST SHALL BE 2 INCH MINIMUM. TEST PRESSURE SHALL BE HELD FOR 15 MINUTES BEFORE INSPECTION STARTS AND WATER LEVEL SHALL REMAIN STATIONARY FOR NOT LESS THAN 1 HOUR. ADJUST AND REGULATE ALL PUMPS, VALVES, PRESSURE SWITCHES, ETC. AND TURN OVER TO THE OWNER IN PERFECT WORKING ORDER.

UPON COMPLETION OF WORK, CLEAN ALL EQUIPMENT.

- VERIFICATION OF EXISTING CONDITIONS** : IT SHALL BE ONE OF THE RESPONSIBILITIES UNDER THIS SECTION TO EXAMINE THE SITE OF WORK AND, AFTER INVESTIGATION, TO DETERMINE THE CHARACTER OF THE MATERIALS TO BE ENCOUNTERED AND THE EXISTING CONDITIONS AFFECTING THE WORK.
- EXCAVATION AND BACKFILLING** : EXCAVATION SHALL BE UNCLASSIFIED AND SHALL INCLUDE THE REMOVAL OF ALL BURIED OBSTRUCTIONS WITHIN THE AREA TO BE EXCAVATED. TRENCH TO REQUIRED DEPTHS. TRENCH TO BE FREE OF WATER.

TAMP BOTTOM OF TRENCH. EXCAVATE BELL HOLES SO PIPE SHALL REST FOR ENTIRE LENGTH ON SOLID GROUND. REMOVE ALL ROCKS AND TAMP AND COMPACT 1/2" TO 1-1/2" BROKEN STONE OR GRAVEL SAND ON BOTTOM OF TRENCH BEFORE LAYING PIPE. INSTALLED PIPING TO BE TESTED, INSPECTED AND APPROVED FOR BACKFILL MATERIAL. MATERIAL: IMPORTED SANDY SOIL IN LAYERS NOT EXCEEDING 8". MOISTEN AND MACHINE TAMP TO ORIGINAL CONDITION. BACKFILL SHALL BE COMPACTED TO A DENSITY OF 95% AS DETERMINED BY THE LABORATORY TEST PROCEDURE IN ASTM D1557.
- STERILIZATION** : BEFORE BEING PLACED IN SERVICE, ALL DOMESTIC COLD WATER DISTRIBUTION SYSTEMS SHALL BE STERILIZED IN ACCORDANCE WITH THE SANTA CLARA COUNTY HEALTH DEPARTMENT REQUIREMENTS. AFTER STERILIZATION, THE SYSTEM SHALL BE FLUSHED WITH POTABLE WATER UNTIL THE STERILIZATION RESIDUE IS WITHIN THE TOLERABLE LIMITS FOR DOMESTIC WATER.
- MATERIALS** : DOMESTIC WATER PIPING:

ABOVE GRADE: SCHEDULE 80 PVC WITH SOLVENT WELD OR THREADED FITTINGS.

BELOW GRADE: SCHEDULE 80 PVC WITH SOLVENT WELD FITTINGS.

PAINT EXPOSED EXTERIOR PVC PIPING WITH WHITE SEMI-GLOSS EXTERIOR LATEX PAINT.

INSTRUMENT AND SAMPLE PORT PIPING: SCHEDULE 80 PVC WITH SOLVENT WELD OR THREADED FITTINGS. OPTIONAL - 304 STAINLESS STEEL WITH THREADED FITTINGS, 1"ø MAX.

RISERS AT BUILDINGS: COPPER TYPE "L"

FIRE WATER: FIRE WATER - FIRE MAINS SHALL BE JM EAGLE "BLUE BRUTE" PVC CLASS 235 PSI, DR 18, "WEST LAKE" C900, OR APPROVED EQUAL, WITH RINGTITE JOINT FOR 4 OR LARGER. LUBRICATE PER MANUFACTURER'S RECOMMENDATIONS.

PROPANE GAS - SDR-11 POLYETHYLENE GAS PIPE RATED FOR PROPANE GAS

INDUSTRIAL WASTE - PVC SCH. 40 PIPE PER ASTM D1784 WITH SOLVENT WELD FITTINGS SHALL CONFORM WITH ASTM F 1866

DRAWING INDEX	
DRAWING NO.	DRAWING TITLE
SU0.01	LEGENDS AND NOTES - SITE UTILITIES
SU1.01	SITE PLAN - SITE UTILITIES
SU3.01	IW PROCESS SYSTEM PLAN - SITE UTILITIES
SU5.01	IW PROCESS DIAGRAM - SITE UTILITIES
SU6.01	DETAILS - SITE UTILITIES
SU7.01	FOR REFERENCE ONLY - WATER DISTRICT SITE MAP

SITE UTILITIES LEGEND

SYMBOL	ABBRV.	IDENTIFICATION	ABBRV.	IDENTIFICATION
	IW	INDUSTRIAL WASTE (ABOVE GROUND)	FLEX	FLEXIBLE
	IW	INDUSTRIAL WASTE (BELOW GROUND)	FLR	FLOOR
	SS	SANITARY SEWER (ABOVE GROUND)	FPM	FEET PER MINUTE
	SS	SANITARY SEWER (BELOW GROUND)	FT	FEET
	SD	STORM DRAIN (ABOVE GROUND)	FT HD	FEET HEAD
	SD	STORM DRAIN (BELOW GROUND)	FTR	FLUE THROUGH ROOF
	ID	INDIRECT DRAIN	(F)	FUTURE
	CW	COLD WATER (DOMESTIC)	GPM	GALLONS PER MINUTE
	HW	HOT WATER	GALV	GALVANIZED
	HWR	HOT WATER RETURN	GA	GAUGE
	IRRIG	IRRIGATION WATER	GC	GENERAL CONTRACTOR
	F	FIRE WATER	HDLPE	HIGH DENSITY LINEAR POLYETHYLENE
	G	GAS (7"WC)	HP	HORSEPOWER
	MPG	MEDIUM PRESSURE GAS (15"WC-5PSI)	HR	HOUR
	HPG	HIGH PRESSURE GAS (>5PSI)	HZ	HERTZ
	G(PG&E)	GAS (PROVIDED OR OWNED BY PG&E)	ID	INSIDE DIAMETER
	FOS	FUEL OIL SUPPLY	IE	INVERT ELEVATION
	FOR	FUEL OIL RETURN	IN	INCH
	FOV	FUEL OIL VENT	INT	INTERIOR
	UG	UNLEADED GASOLINE	INV	INVERT
	UGV	UNLEADED GASOLINE VENT	IPR	IRRIGATION
	DSL	DIESEL FUEL	KW	KILOWATTS
	LO	LUBRICATING OIL	LBS	POUNDS
	WO	WASTE OIL	LG	LONG
	ELEC	ELECTRICAL SERVICE	LRA	LOCKED ROTOR AMPS
	GCO/FCO	GRADE C.O. / FLOOR C.O.	LVG	LEAVING
		GAS SHUT-OFF VALVE	MAX	MAXIMUM
	BV	BALL VALVE	MBH	1000 BTU PER HOUR
	CHVA	CHECK VALVE	MC	MECHANICAL CONTRACTOR
		GATE VALVE	MCA	MINIMUM CIRCUIT AMPS
	T&PRV	TEMP & PRESS RELIEF VALVE	MECH	MECHANICAL
	GV	GLOBE VALVE	MFR	MANUFACTURER
	DCBP	DOUBLE CHECK BACKFLOW PREVENTER	MIN	MINIMUM
	RPBP	REDUCE PRESS BACKFLOW PREVENTER	MOCP	MAXIMUM OVERCURRENT PROTECTION
		UNION	(N)	NEW
		FLOW CONTROL VALVE	NC	NORMALLY CLOSED
	FH	FIRE HYDRANT	NIC	NOT IN CONTRACT
	PIV	POST INDICATING VALVE	NO	NORMALLY OPEN
	HB	HOSE BIBB	NSF	NATIONAL SCIENCE FOUNDATION
	P.O.C.	POINT OF CONNECTION	NTS	NOT TO SCALE
		CENTERLINE	OC	ON CENTER
	MH	MANHOLE	OD	OUTSIDE DIAMETER
	AD	ACCESS DOOR	PC	PLUMBING CONTRACTOR
		PRESSURE DROP	PD	PRESSURE DROP
	DIA	DIAMETER	PH	PHASE
	&	AND	P&ID	PIPING & INSTRUMENTATION DIAGRAM
	@	AT	P/N	PART NUMBER
	*F	DEGREES FAHRENHEIT	PRESS	PRESSURE
	AC	AIR CONDITIONER	PSI	POUNDS PER SQUARE INCH
	AD	AREA DRAIN	P/T	PRESSURE/TEMPERATURE
	AFF	ABOVE FINISH FLOOR	QTY	QUANTITY
	AGGR	AGGREGATE	REQD	REQUIRED
	AMP	AMPERE	REQS	REQUIREMENTS
	APPROX	APPROXIMATE	RLA	RATED/RUNNING LOAD AMPS
	ARCH	ARCHITECT/ARCHITECTURAL	RM	ROOM
	BHP	BRAKE HORSEPOWER	RPM	REVOLUTIONS PER MINUTE
	BLDG	BUILDING	RO	REVERSE OSMOSIS
	BTU	BRITISH THERMAL UNIT	SM	SHEETMETAL
	CI	CAST IRON	SOV	SHUT-OFF VALVE
	CIRC	CIRCULATING	SPEC	SPECIFICATION
	CLG	CEILING	SP	SAMPLE PORT
	CONC	CONCRETE	SQ	SQUARE
	CONN	CONNECTION	STD	STANDARD
	CONT	CONTINUED	STRUCT	STRUCTURAL
	COORD	COORDINATE	STS/SS	STAINLESS STEEL
	CONST	CONSTRUCTION	TBD	TO BE DETERMINED
	DF	DRINKING FOUNTAIN	TEMP	TEMPERATURE
	DISPL	DISPLACEMENT	TYP	TYPICAL
	DN	DOWN	UL	UNDERWRITER'S LABORATORIES
	DWGS	DRAWINGS	UON	UNLESS OTHERWISE NOTED
	(E)	EXISTING	V	VOLT
	EC	ELECTRICAL CONTRACTOR	VTR	VENT THROUGH ROOF
	ELEC	ELECTRICAL	W/	WITH
	ELEV	ELEVATION	WB	WET BULB
	EMBED	EMBEDMENT	WC	WATER COLUMN
	ENT	ENTERING	WT	WEIGHT
	EQUIP	EQUIPMENT	WW	WASTE WATER
	EXP	EXPANSION		
	EXT	EXTERIOR		
	FFE	FINISHED FLOOR ELEVATION		
	FLA	FULL LOAD AMPS		



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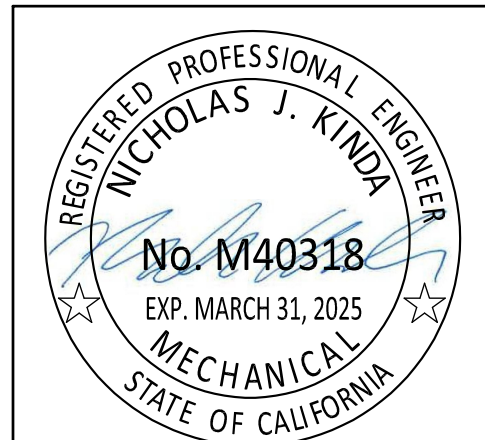
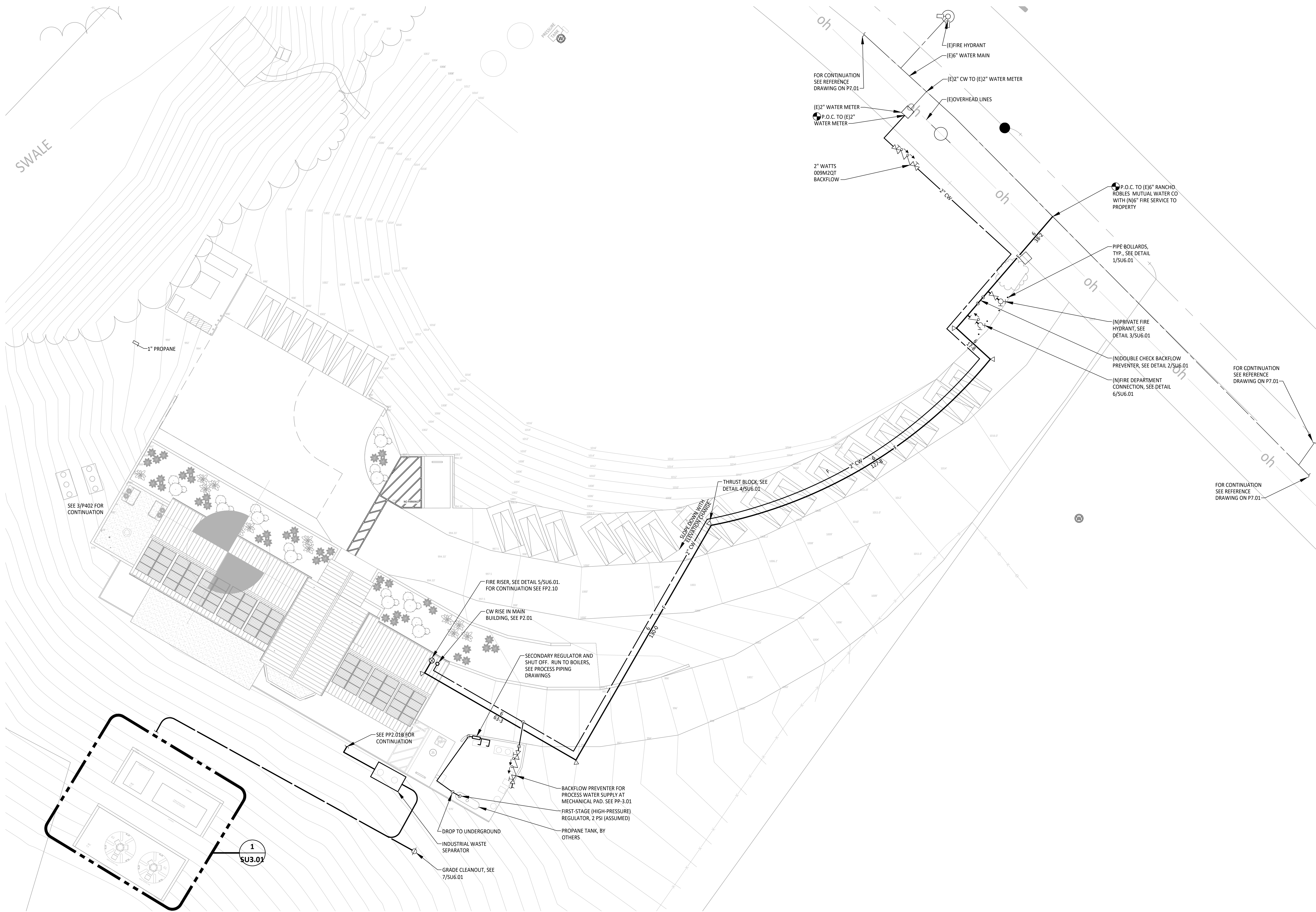
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LEGEND AND NOTES - SITE UTILITIES

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SU0.01

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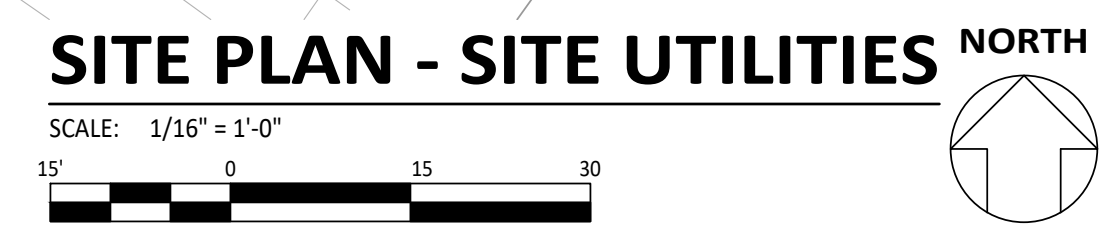
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SITE PLAN - SITE UTILITIES

SHEET NUMBER

SU1.01



1
SU3.01

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SHEET NOTES:

- FOR DETAILED PIPING DIAGRAM, SEE SU5.1



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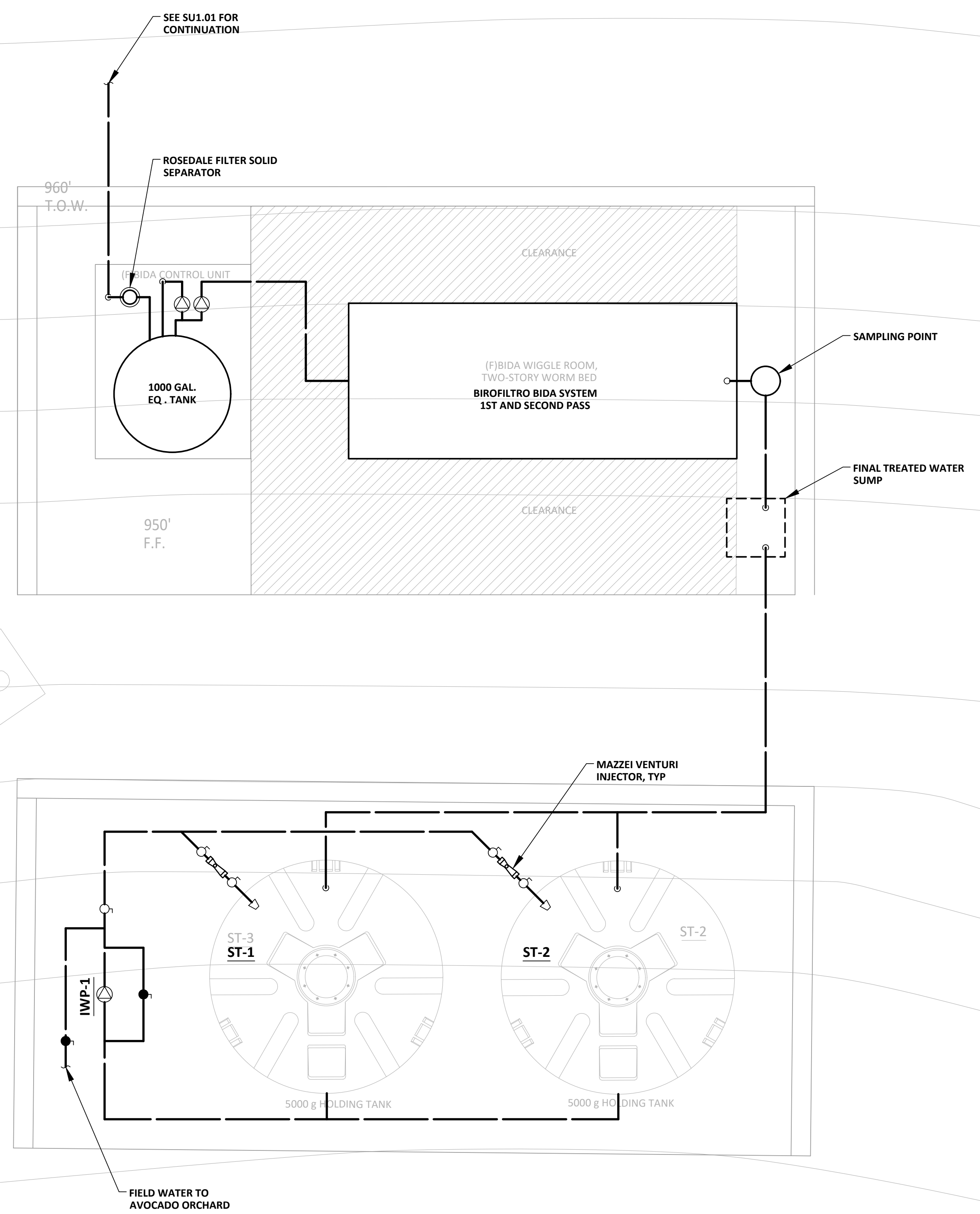
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IW PROCESSING AREA
ENLARGED PLAN -
SITE UTILITIES

SHEET NUMBER

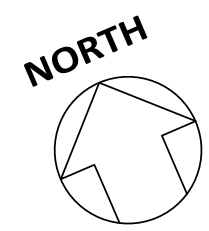
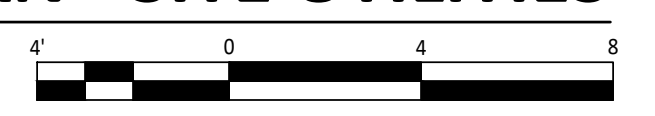
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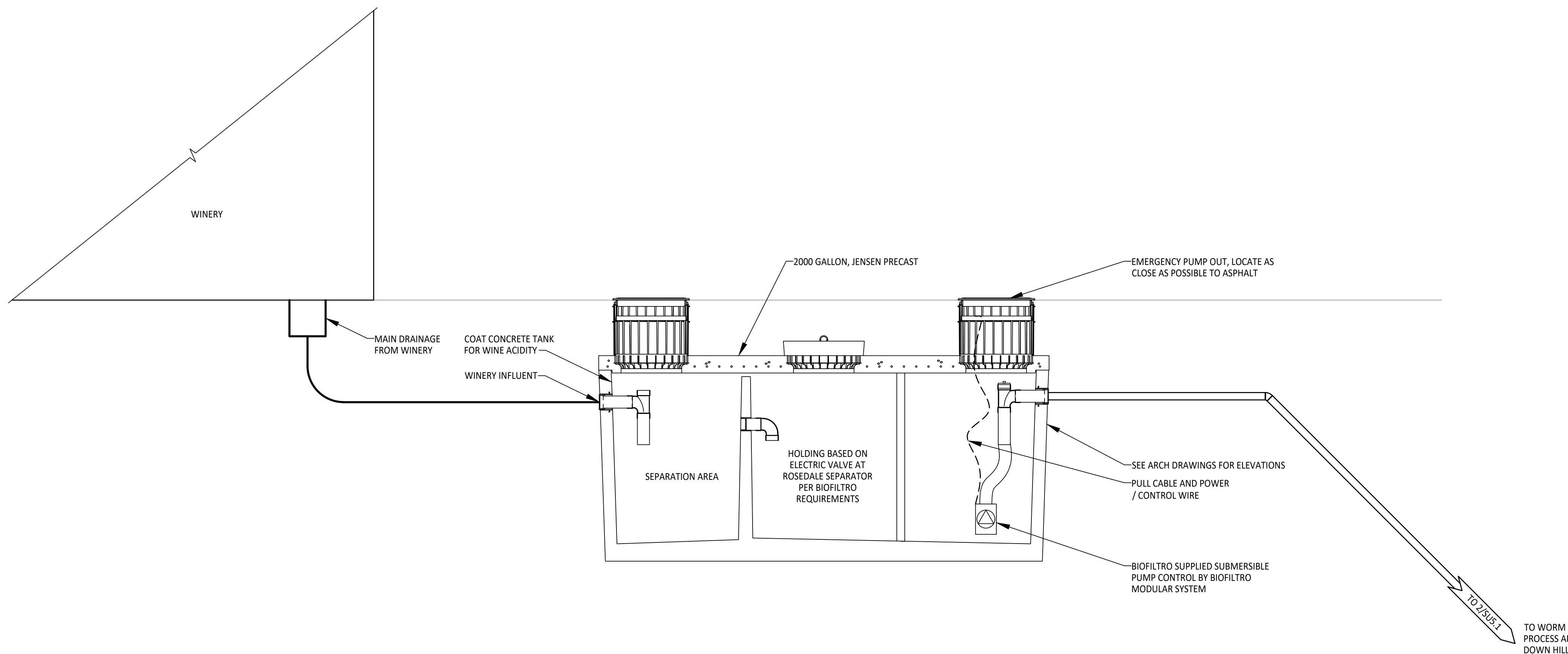
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SU3.01

IW PROCESSING AREA ENLARGED PLAN - SITE UTILITIES

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



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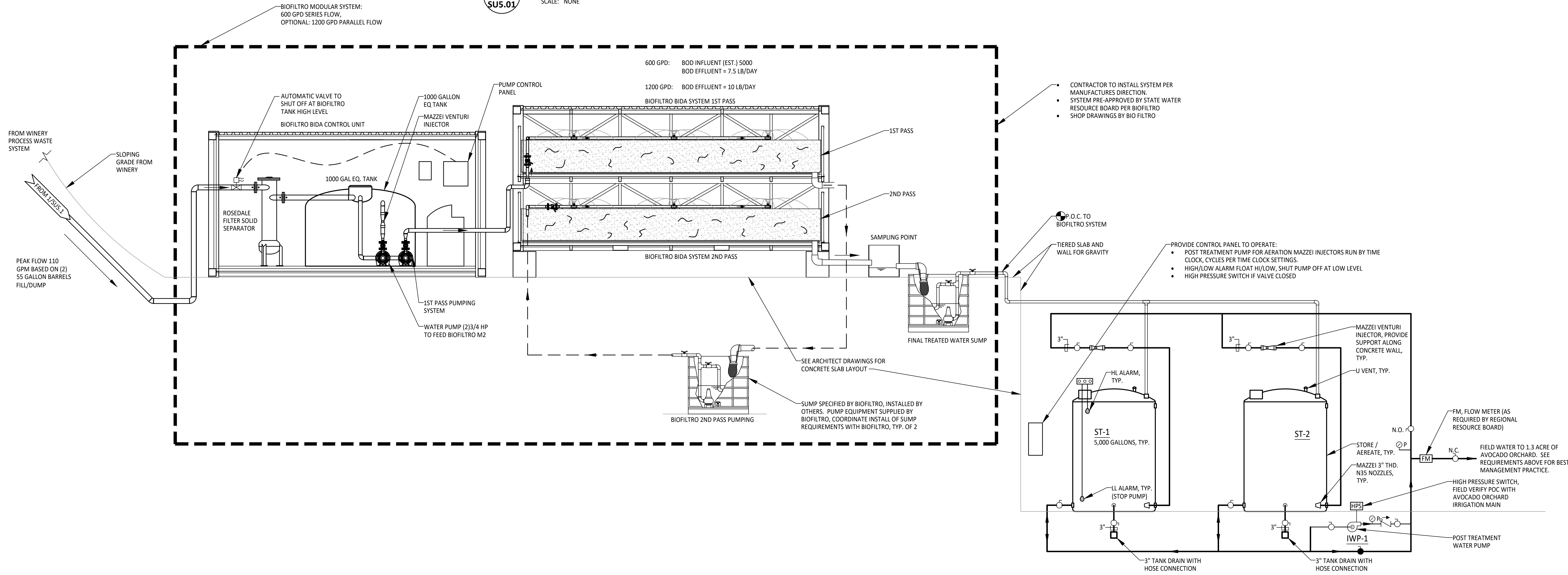
1 WINERY AREA INDUSTRIAL WASTE (IW) FLOW DIAGRAM
 SCALE: NONE

WINERY PROCESSING OPERATIONS:
 WINERY SEASONAL FACILITY PRODUCTION
 WINE PRODUCTION: 60 TONS OF GRAPES X 165 GAL OF WINE/TON = 9,900 GAL OF WINE
 # OF CASE 9,900 GAL/2.4 GAL/CASE = 4,125 CASES
 600 GPD/WORM X 90 DAY HARVEST = 54,000 GAL WASTEWATER FOR TOTAL HARVEST

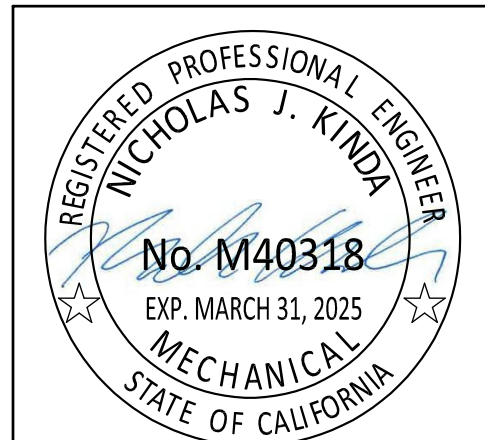
STATE WATER BOARD GENERAL WASTE (SWBGW):
 DISCHARGE REQUIREMENTS FOR WINERY PROCESS
 ORDER WQ 2021-0002-DWQ
 • TIER 2: 30,001 -> 300,000 GAL/YR
 • 100 POUNDS PER ACRE PER DAY
 • 48 HOURS WET AND DRY TIMES TO MANAGE HYDRAULIC LOADING
 • SWBGW PRE-APPROVED BIOFILTRIO MODULAR SYSTEM

SUPPORT EQUIPMENT FOR BIOFILTRIO SYSTEM:

- ST-1/ST-2: 5000 GALLON SNYDER TANKS FOR HOLDING DISCHARGE ASM TK 5000 X 144 WATER. PROVIDE THREADED U VENT/ SIPHON TUBE FITTING (ALL TANKS), AND REVERSE LEVEL SIGHT GAUGE GROUND SUPPORTED FOR ONE TANK.
- MAZZEI INJECTOR MODEL 2081 WITH INLET PRESSURE 25-30 PSI WITH MOTIVE FLOW OF 75 GPM. PROVIDE WITH SP5A-1.25-A CLEAR CHECK ASSEMBLY FOR AIR INTAKE FOR INJECTOR.
- MAZZEI NOZZLE SIZE N35 TO INSTALL INTO TANK BULKHEAD FITTING. INSTALL BULKHEAD FITTING PER SNYDER INDUSTRIES TANK MANUFACTURE GUIDE LINES.
- IWP-1: INDUSTRIAL WASTE PUMP SSH CLOSED COUPLE STAINLESS STEEL PUMP ENCLOSURE AND IMPELLER. FLOW RATE FOR MAZZEI 75 GPM X 2 OR 150 GPM FOR TWO TANKS 35 PSI. GOULD MODEL SSH SSH 2" SUPPLY X 2.5" SUCTION X6, 5 HP, 480 VOLT, 3 PHASE, 3500 RPM, MOTOR TEFC, STAINLESS IMPELLER CODE F.
- FM: FLOW METER SPARLING TIGER MAG EP FM656



2 WORM PROCESSING AREA INDUSTRIAL WASTE (IW) FLOW DIAGRAM
 SCALE: NONE



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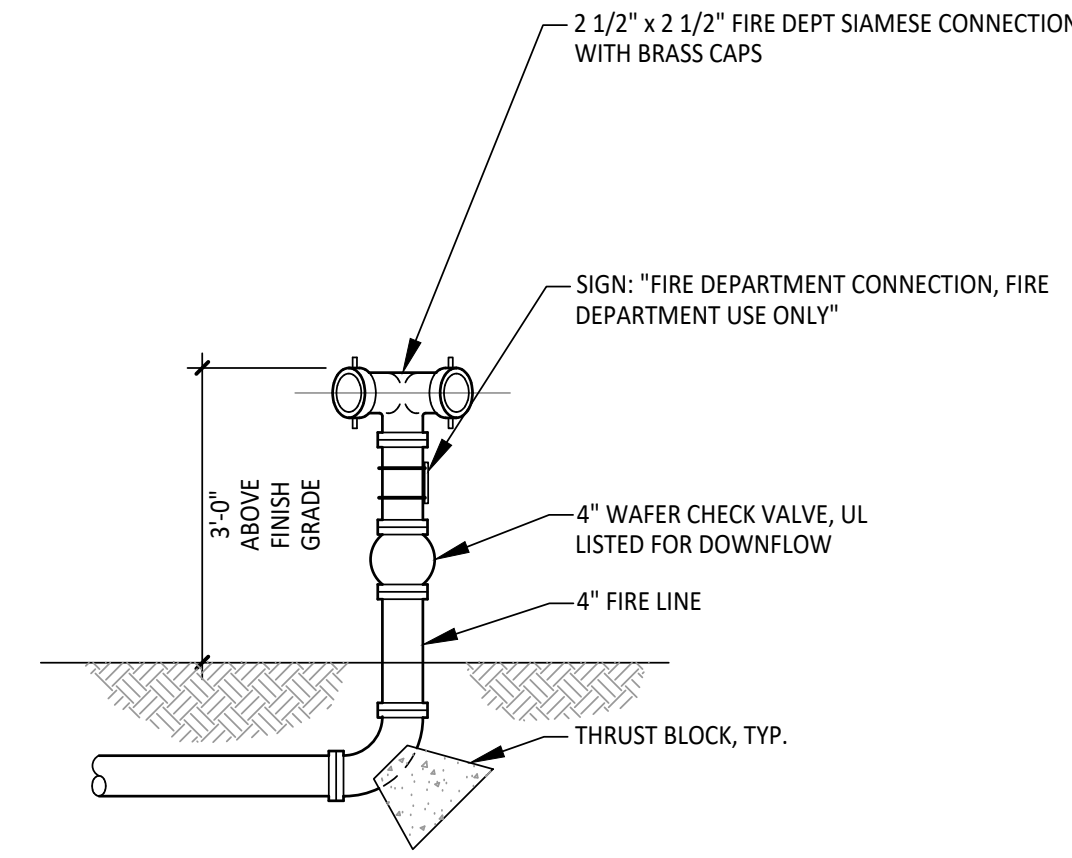
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WINERY INDUSTRIAL WASTE WATER PIPING DIAGRAM - SITE UTILITIES

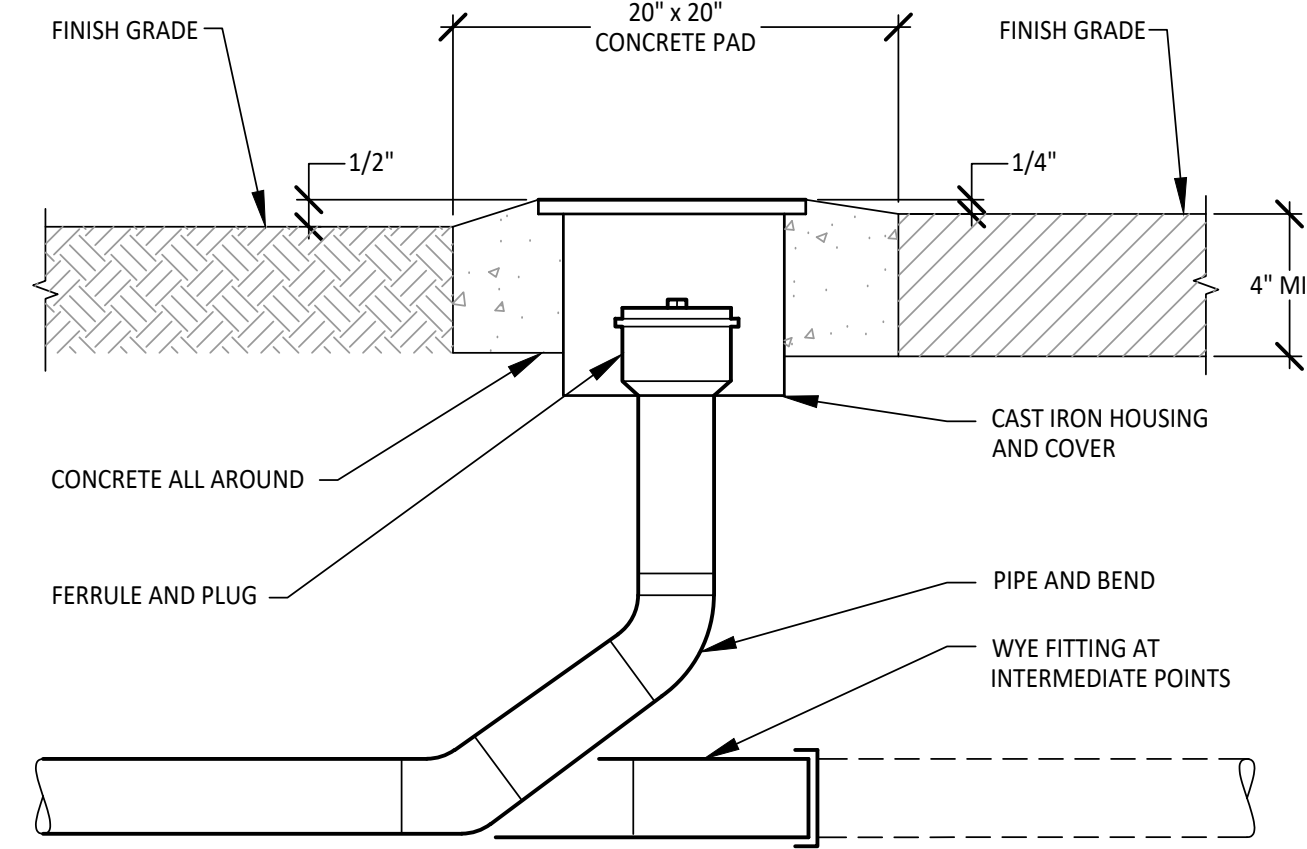
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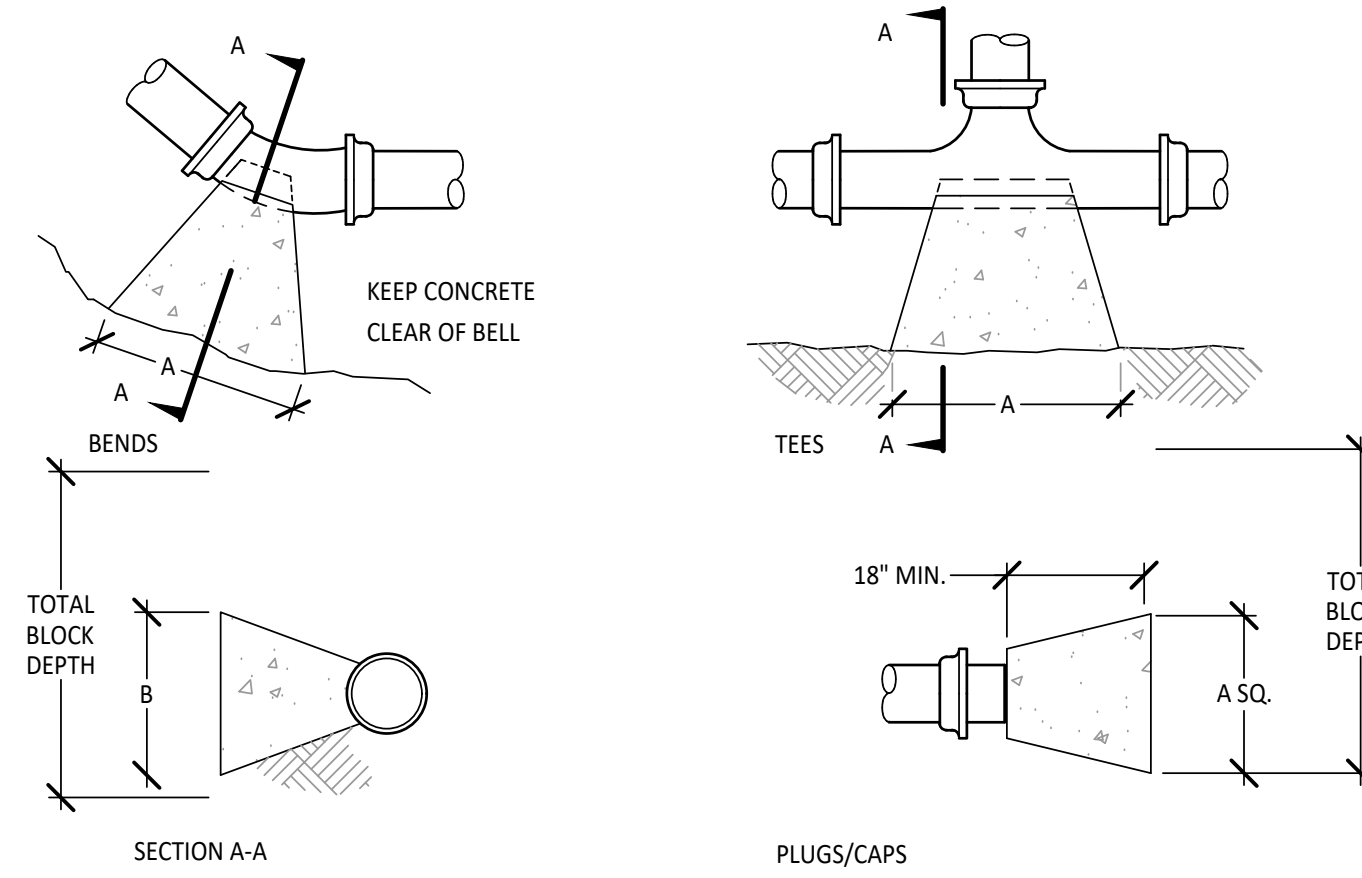
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6 FIRE DEPARTMENT CONNECTION
 NO SCALE
 SU6.01



7 GRADE CLEAN-OUT (GCO)
 NO SCALE
 SU6.01



SOIL BEARING CAPACITY 2000 PSF FOR CLAYEY SAND SOILS TYPE IN ACCORDANCE WITH NFPA13:TABLE A6.6.1(c). SEE MATERIAL DATA SUBMITTAL GEOTECHNICAL REPORT FOR DESCRIPTION OF SOIL CONDITIONS.

THRUST BLOCK CALCULATIONS PER NFPA 13: A. 6.6.1(b)

4"-90 BEND AREA = (3.8 S.F.)(225PSI/100PSI)(1000PSF/2000PSF) = 4.3 S.F.

4"-45 BEND AREA = 4.3 S.F. x 0.541 = 2.3 S.F.

4"-22.5 BEND AREA = 4.3 S.F. x 0.276 = 1.2 S.F.

4"-DEAD END AREA = (2.7 S.F.)(225PSI/100PSI)(1000PSF/2000PSF) = 3.0 S.F.

6"-90 BEND AREA = (7.9 S.F.)(225PSI/100PSI)(1000PSF/2000PSF) = 8.9 S.F.

6"-45 BEND AREA = 8.9 S.F. x 0.541 = 4.8 S.F.

6"-22.5 BEND AREA = 8.9 S.F. x 0.276 = 2.5 S.F.

6"-DEAD END AREA = (5.6 S.F.)(225PSI/100PSI)(1000PSF/2000PSF) = 6.3 S.F.

8"-90 BEND AREA=(13.6 S.F.)(225 PSI/100 PSI)(1000 PSF/2000 PSF)=15.3 SF

8"-45 BEND AREA= 15.3 S.F. x 0.541 = 8.3 S.F.

8"-22.5 BEND AREA= 15.3 S.F. x 0.276 = 4.2 S.F.

8"-DEAD END AREA = (9.6 S.F.)(225 PSI/100 PSI)(1000 PSF/2000 PSF)=10.8 SF.

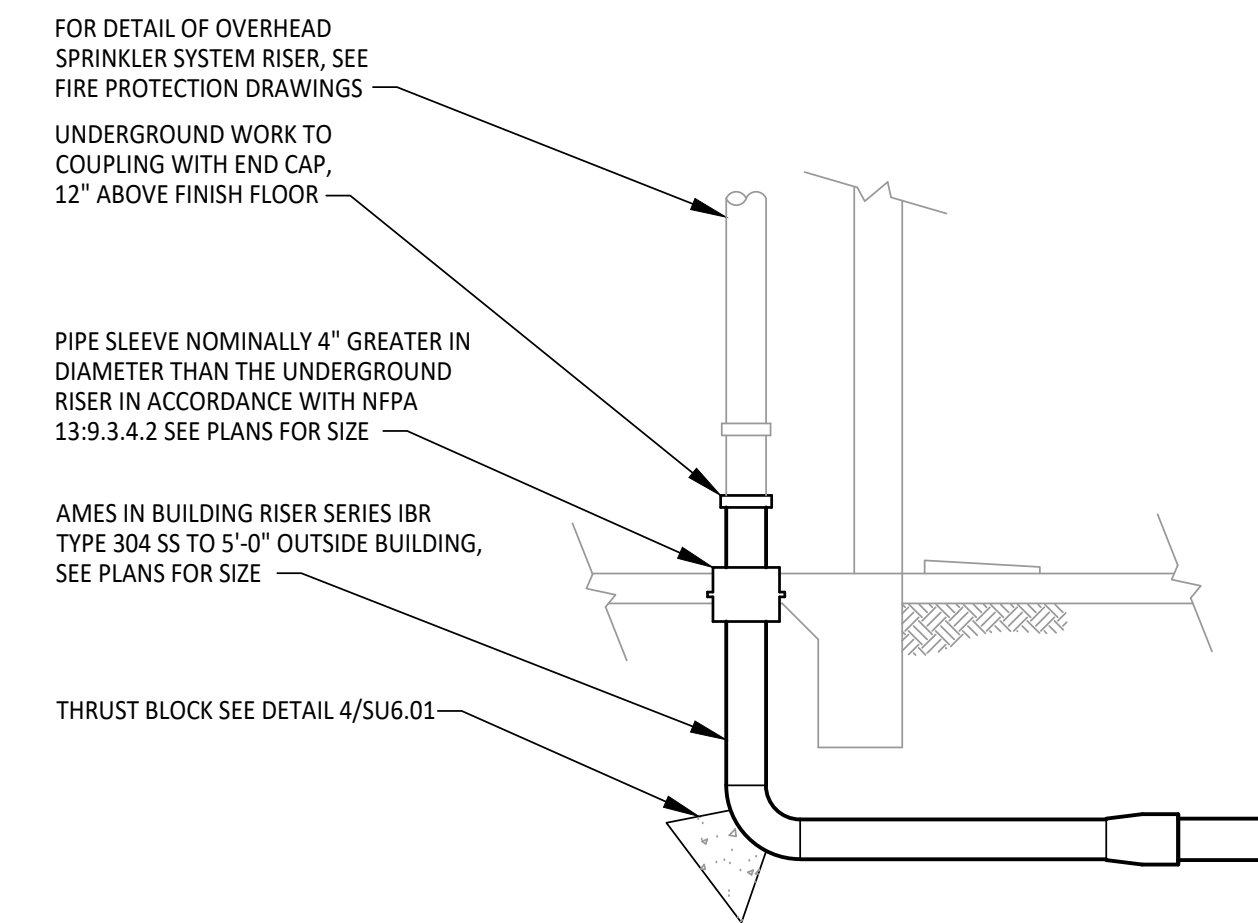
PIPE SIZE	90° BENDS				45° BENDS				22.5° BENDS				TEES and PLUGS			
	SIZE SQ. FT.	"A"	"B"	SIZE SQ. FT.	"A"	"B"	SIZE SQ. FT.	"A"	"B"	SIZE SQ. FT.	"A"	"B"	SIZE SQ. FT.	"A"	"B"	
4"	4.3	30"	21"	2.3	28"	12"	2	24"	12"	3.0	24"	18"				
6"	8.9	53"	24"	4.8	39"	18"	2.5	30"	12"	6.3	43"	21"				
8"	15.3	62"	36"	8.3	50"	24"	4.2	34"	18"	10.8	52"	30"				

BASED ON A WATER PRESSURE OF 225 POUNDS PER SQUARE INCH AND A SOIL RESISTANCE OF 2000 POUNDS PER SQUARE FOOT, AND SAFETY FACTOR OF 1.5 IN ACCORDANCE WITH NFPA 13 (2022) TABLE A.6.6.1(b).

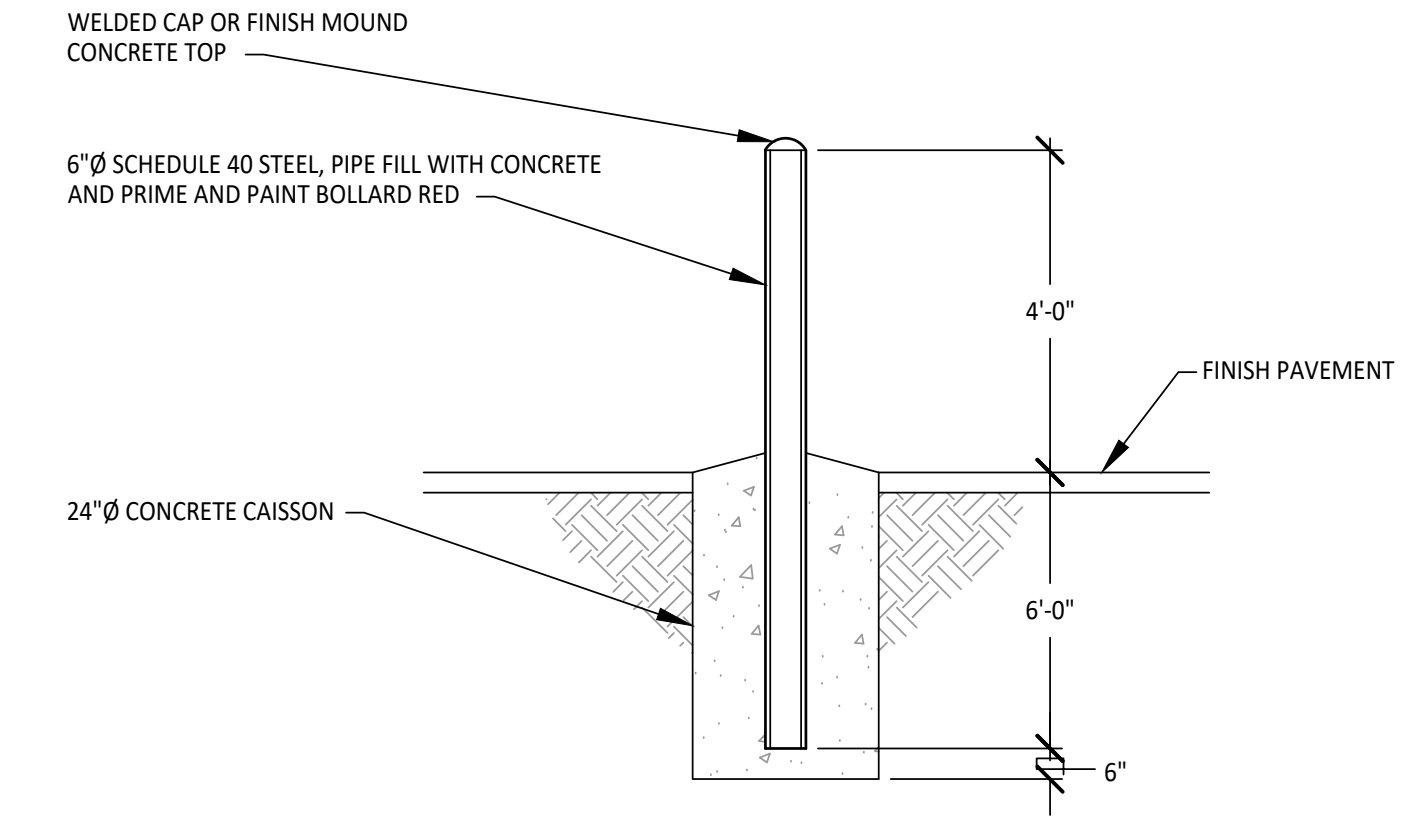
TOTAL BLOCK DEPTH SHALL BE AT LEAST TWICE THE BLOCK DEPTH "B" IN ACCORDANCE WITH NFPA 24.

JOINT RESTRAINT SHALL UTILIZE BOTH THRUST BLOCKS AND MEGALUG MECHANICAL JOINT RESTRAINT FITTINGS PER LOCAL FIRE MARSHAL

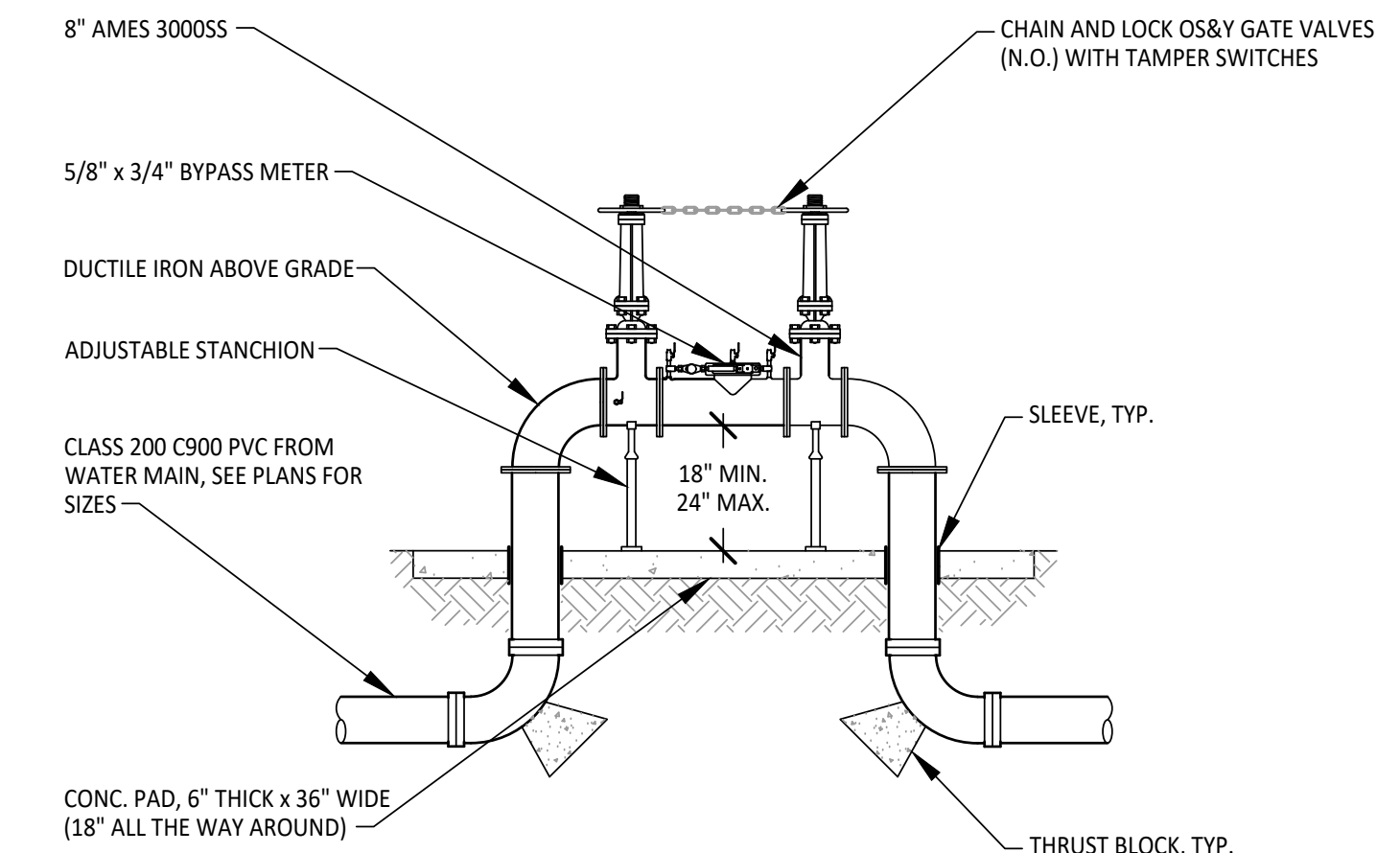
4 THRUST BLOCK
 NO SCALE
 SU6.01



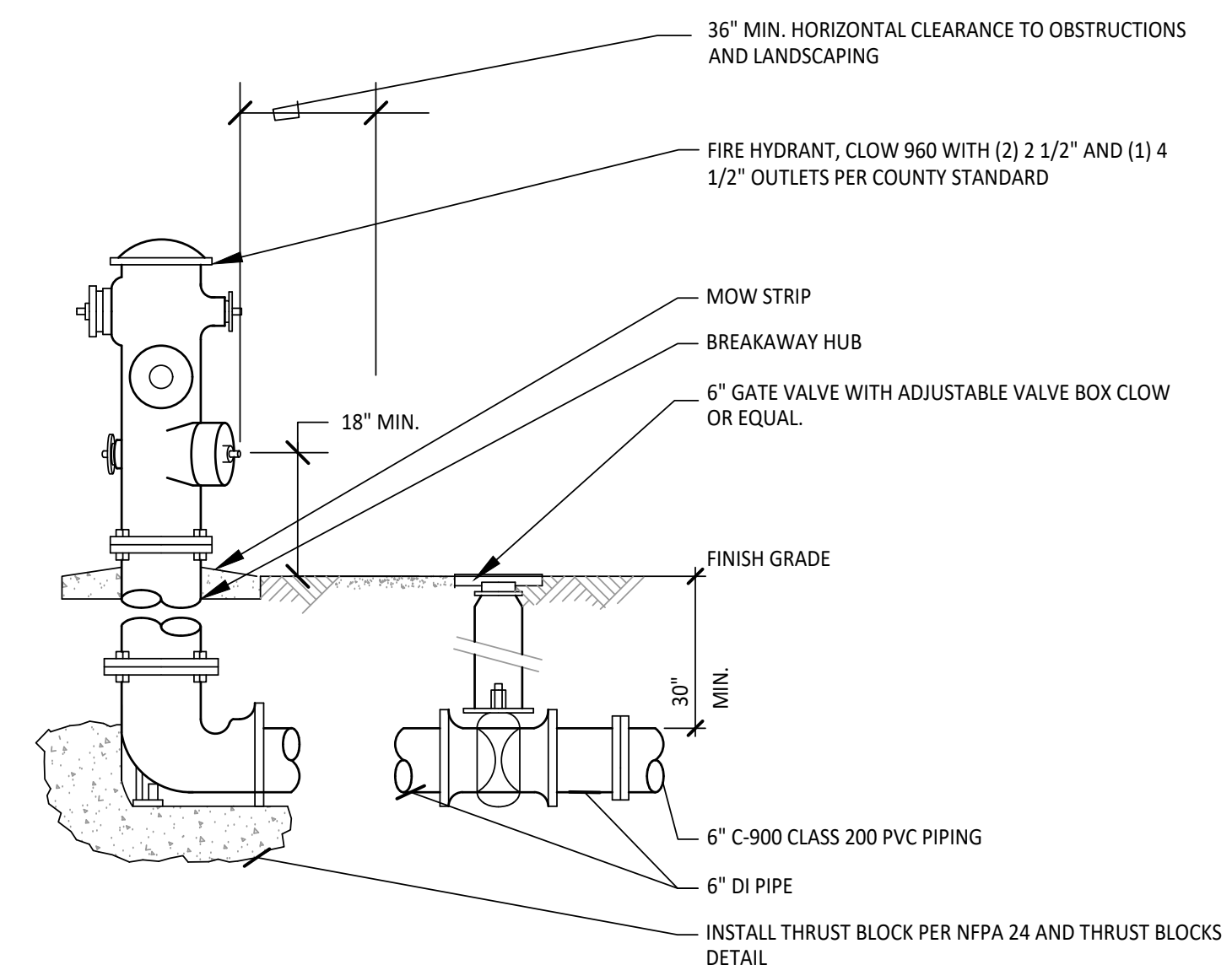
5 IN BUILDING RISER
 NO SCALE
 SU6.01



1 PIPE BOLLARD
 NO SCALE
 SU6.01



2 DOUBLE CHECK DETECTOR ASSEMBLY
 NO SCALE
 SU6.01



3 FIRE HYDRANT
 NO SCALE
 SU6.01



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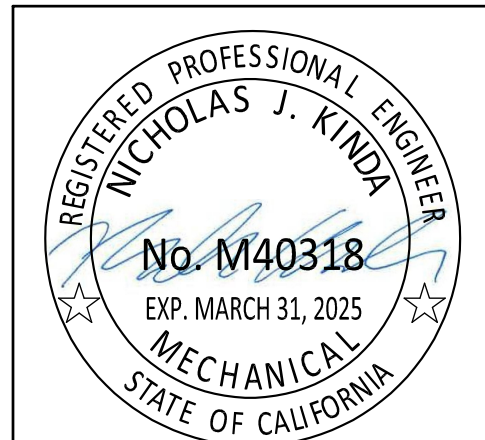
DETAILS - SITE UTILITIES

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SHEET NOTES:
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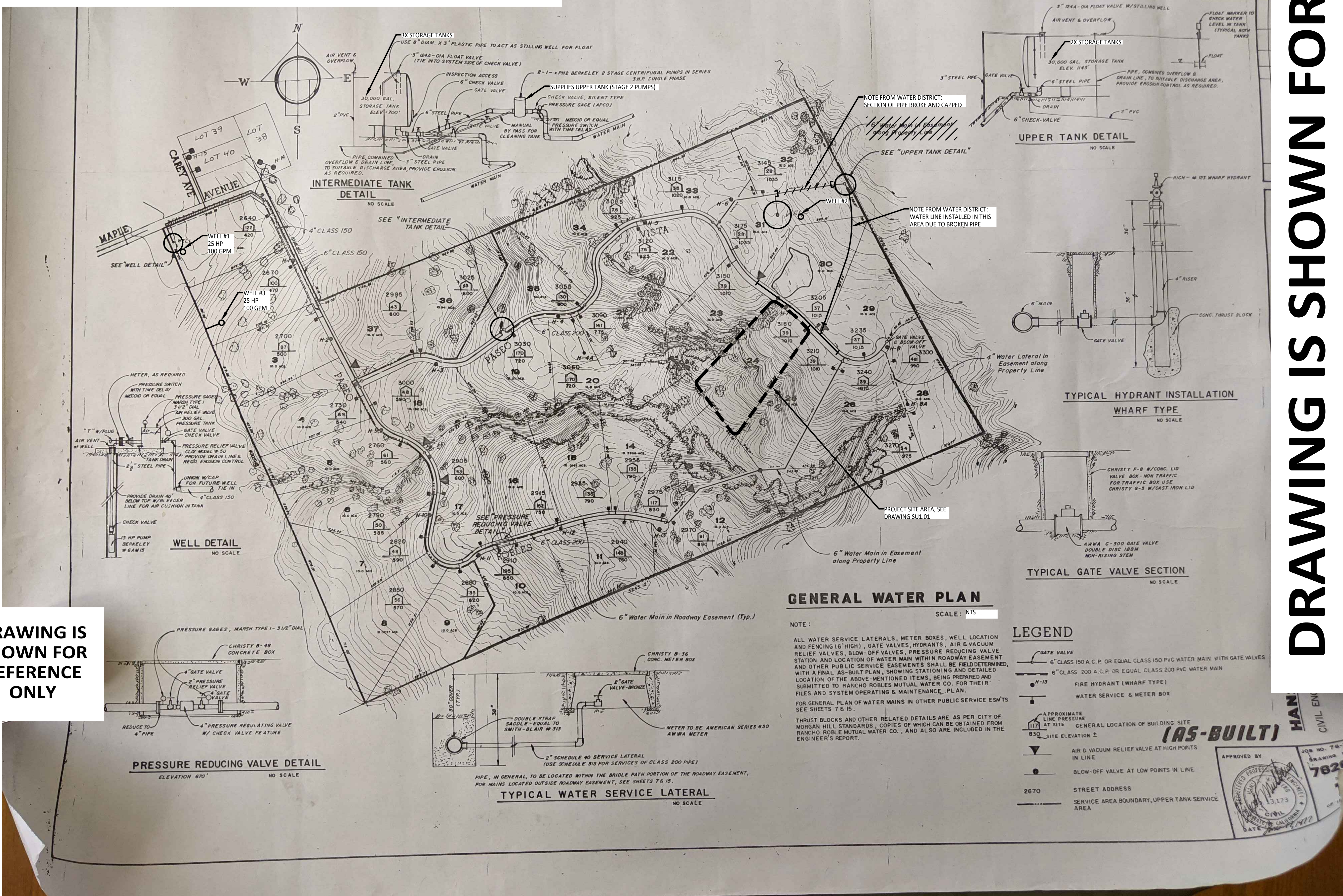
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FOR REFERENCE ONLY - WATER DISTRICT OVERALL SITE PLAN

SHEET NUMBER

SU7.01

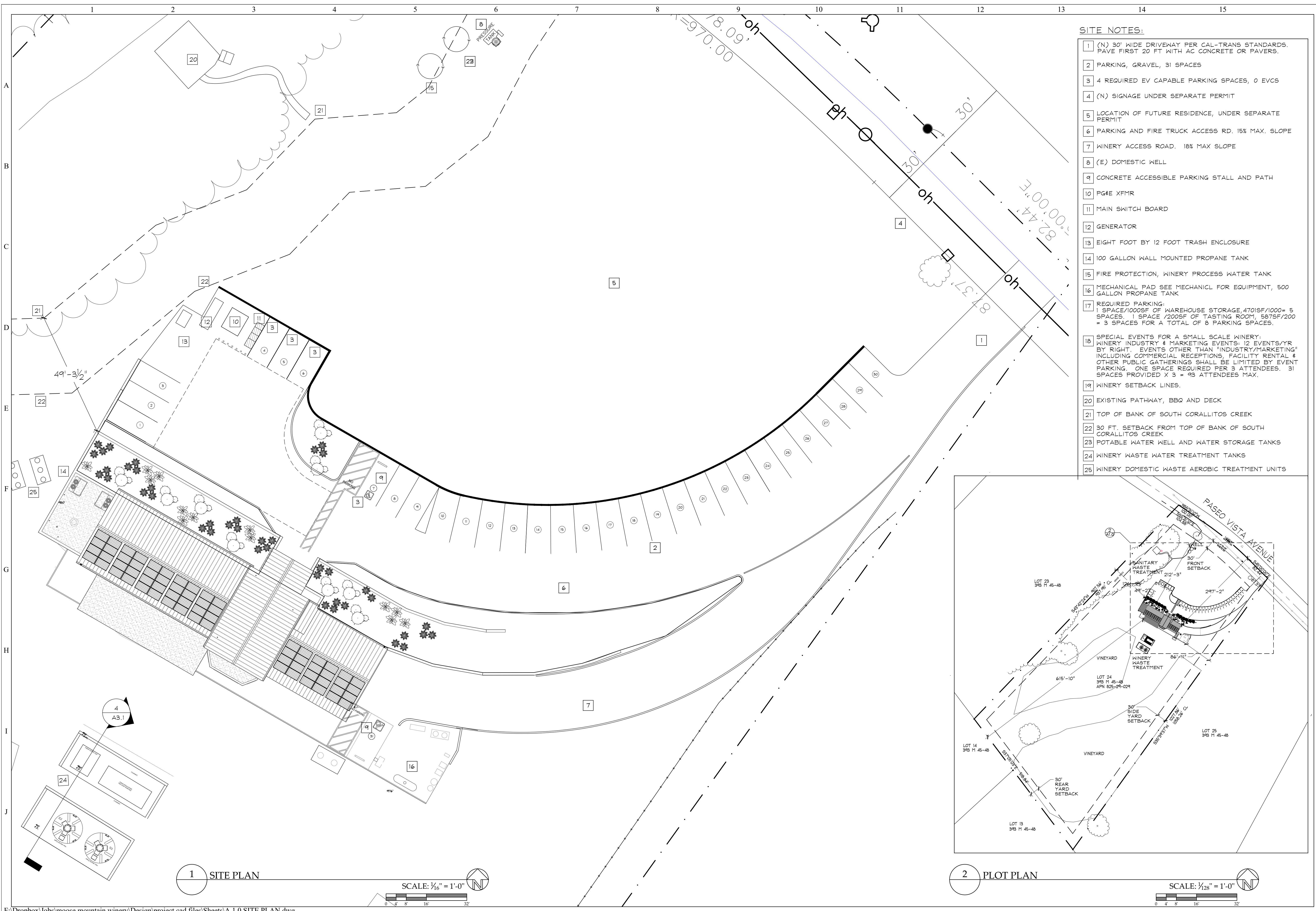
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RANCHO ROBLES MUTUAL WATER MAP - FOR REFERENCE ONLY NORTH

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- SITE NOTES:**
- 1 (N) 30' WIDE DRIVEWAY PER CAL-TRANS STANDARDS. PAVE FIRST 20 FT WITH AC CONCRETE OR PAVERS.
 - 2 PARKING, GRAVEL, 31 SPACES
 - 3 4 REQUIRED EV CAPABLE PARKING SPACES, 0 EVCS
 - 4 (N) SIGNAGE UNDER SEPARATE PERMIT
 - 5 LOCATION OF FUTURE RESIDENCE, UNDER SEPARATE PERMIT
 - 6 PARKING AND FIRE TRUCK ACCESS RD. 15% MAX. SLOPE
 - 7 WINERY ACCESS ROAD. 18% MAX SLOPE
 - 8 (E) DOMESTIC WELL
 - 9 CONCRETE ACCESSIBLE PARKING STALL AND PATH
 - 10 PG#E XFMR
 - 11 MAIN SWITCH BOARD
 - 12 GENERATOR
 - 13 EIGHT FOOT BY 12 FOOT TRASH ENCLOSURE
 - 14 100 GALLON WALL MOUNTED PROPANE TANK
 - 15 FIRE PROTECTION, WINERY PROCESS WATER TANK
 - 16 MECHANICAL PAD SEE MECHANICAL FOR EQUIPMENT, 500 GALLON PROPANE TANK
 - 17 REQUIRED PARKING:
 1 SPACE/1000SF OF WAREHOUSE STORAGE, 47015F/1000 = 5 SPACES. 1 SPACE/200SF OF TASTING ROOM, 5875F/200 = 3 SPACES FOR A TOTAL OF 8 PARKING SPACES.
 - 18 SPECIAL EVENTS FOR A SMALL SCALE WINERY:
 WINERY INDUSTRY & MARKETING EVENTS: 12 EVENTS/YR BY RIGHT. EVENTS OTHER THAN 'INDUSTRY/MARKETING' INCLUDING COMMERCIAL RECEPTIONS, FACILITY RENTAL & OTHER PUBLIC GATHERINGS SHALL BE LIMITED BY EVENT PARKING. ONE SPACE REQUIRED PER 3 ATTENDEES. 31 SPACES PROVIDED X 3 = 93 ATTENDEES MAX.
 - 19 WINERY SETBACK LINES.
 - 20 EXISTING PATHWAY, BBQ AND DECK
 - 21 TOP OF BANK OF SOUTH CORALLITOS CREEK
 - 22 30 FT. SETBACK FROM TOP OF BANK OF SOUTH CORALLITOS CREEK
 - 23 POTABLE WATER WELL AND WATER STORAGE TANKS
 - 24 WINERY WASTE WATER TREATMENT TANKS
 - 25 WINERY DOMESTIC WASTE AEROBIC TREATMENT UNITS

REVISIONS BY:

SITE PLAN

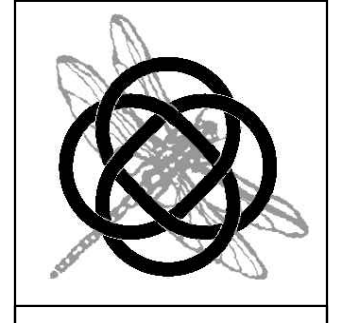
MOOSE MOUNTAIN VINEYARDS

3180 PASEO VISTA AVE. SAN MARTIN CA 95046
 APN: 825-29-029

PLAN REVIEW SET



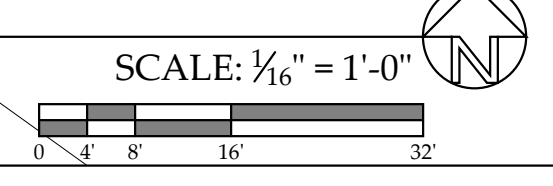
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 1265 65TH Street, Emeryville, CA 94608
 Tel: (510) 735-9801



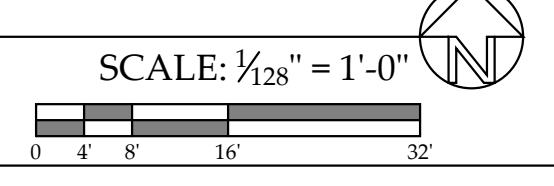
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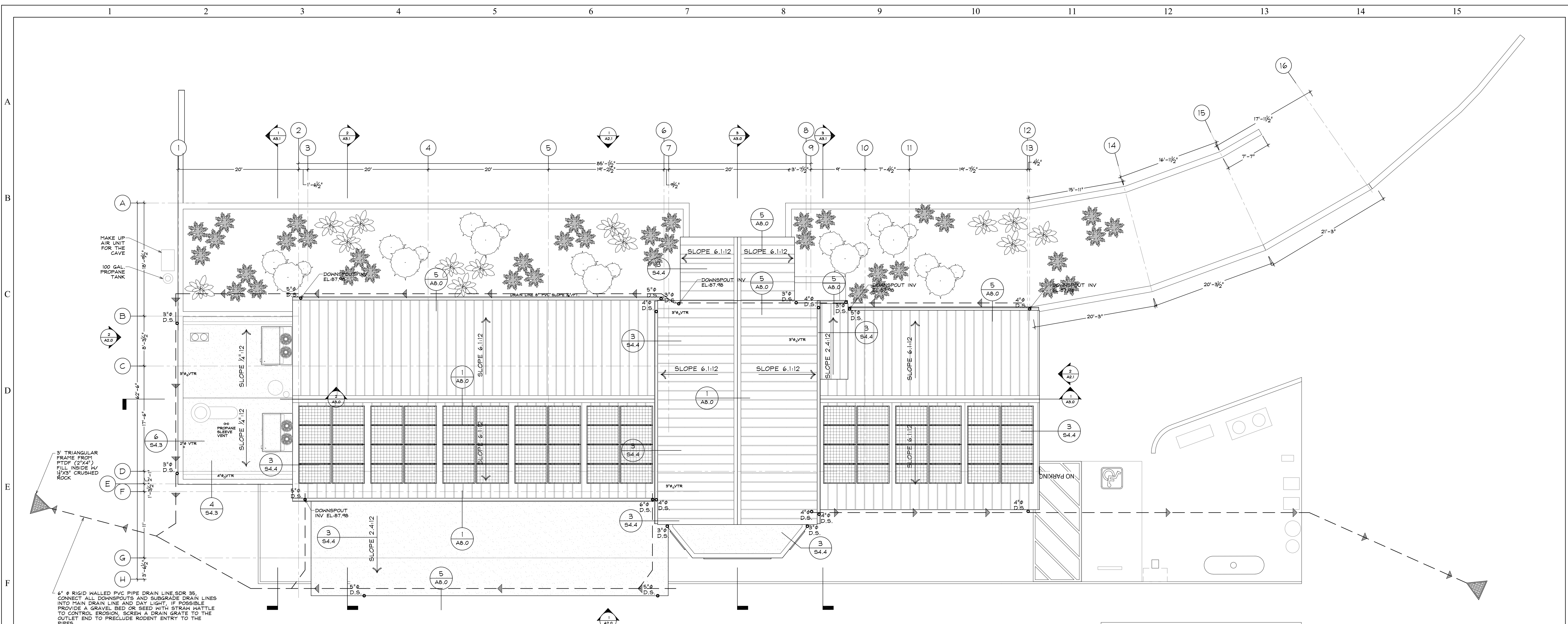
SHEET:
A 1.0

1 SITE PLAN



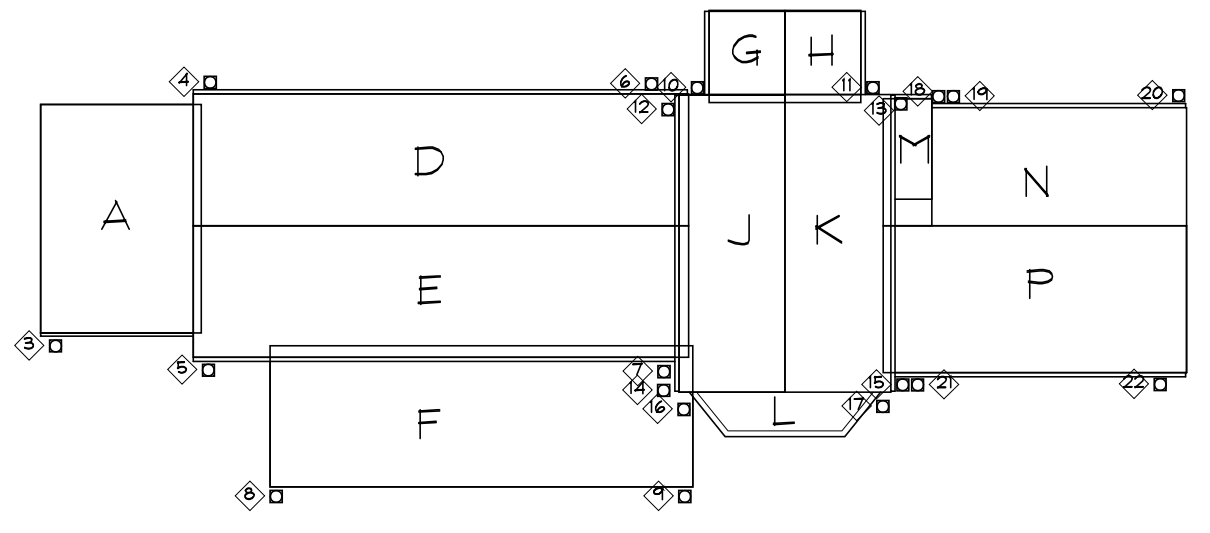
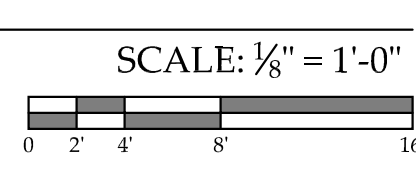
2 PLOT PLAN





6" ϕ RIGID WALLED PVC PIPE DRAIN LINE SDR 35. CONNECT ALL DOWNSPOUTS AND SUBGRADE DRAIN LINES INTO MAIN DRAIN LINE AND DAY LIGHT. IF POSSIBLE PROVIDE A GRAVEL BED OR SEED WITH STRAW HATTEL TO CONTROL EROSION. SCREEN A DRAIN GATE TO THE OUTLET END TO PRECLUDE RODENT ENTRY TO THE PIPES

1 ROOF PLAN



ROOF AREA / DOWNSPOUTS DIAGRAM

NOTE: ALL GUTTERS 5" HALF ROUND, EXCEPT GUTTERS AT GRID LINES 'B' & 'F' USE 6" ϕ HALF ROUND GUTTERS OR EQUIVALENT.

ADJUSTED AREA = AREA * (ROOF PITCH FACTOR) * (MAX. RAINFALL INTENSITY)

ROOF PITCH FACTOR:
 SLOPES BETWEEN 6:12 AND 8:12 = 1.1
 SLOPES BETWEEN 4:12 AND 5:12 = 1.05
 SLOPES UNDER 4:12 = 1.0

RAINFALL INTENSITY:
 SAN MARTIN CA - 2.7 IN/HR

GUTTER:
 5" HALF ROUND = 2500 SF MAX.
 6" HALF ROUND = 3840 SF MAX.

DOWNSPOUTS:
 3" ROUND = 706 SF MAX.
 4" ROUND = 1255 SF MAX.
 5" ROUND = 1980 SF MAX.
 6" ROUND = 2850 SF MAX.

NOTE: ALL DOWNSPOUTS IN THE RAINWATER DISPERSION SYSTEM ARE CONNECTED VIA 8" HARD PIPE TO THE 12" ϕ STORMY WATER DRAINAGE SYSTEM. SEE CIVIL UTILITY PLAN FOR STORM DRAIN.

CALCULATIONS BASED UPON SMACNA GUTTER AND DOWNSPOUT CALCULATOR

RF #	ROOF AREA SF (A)	ROOF PITCH FACTOR (PF)	ADJ. AREA FACTOR (AXPFX2.7)
A	511	1.0	511
D	1030	1.1	3059
E	1030	1.1	3059
F	914	1.0	2468
G	110	1.1	327
H	110	1.1	327
J	493	1.1	1464
K	493	1.1	1464
L	109	1.0	294
M	98	1.0	265
N	699	1.1	2076
P	601	1.1	1785

DS	CONTRIBUTING ROOF NO.'S	ADJ. ROOF AREA TO DS	DS SIZE
3	A	511	3" ϕ
4	1/2 D	1530	5" ϕ
5	1/2 E	1530	5" ϕ
6	1/2 J+1/2 D	1983	5" ϕ
7	1/2 E+1/2 J	2262	6" ϕ
8	1/2 F	1234	4" ϕ
9	1/2 L+1/2 F	1381	5" ϕ
10	G	327	3" ϕ
11	H	327	3" ϕ
12	1/2 J	732	4" ϕ
13	1/2 K	732	4" ϕ
14	1/2 J	732	4" ϕ
15	1/2 K	732	4" ϕ
16	1/2 L	147	3" ϕ
17	1/2 L	147	3" ϕ
18	M	265	3" ϕ
19	1/2 N+M	1303	5" ϕ
20	1/2 N	1038	4" ϕ
21	1/2 P	893	4" ϕ
22	1/2 P	893	4" ϕ

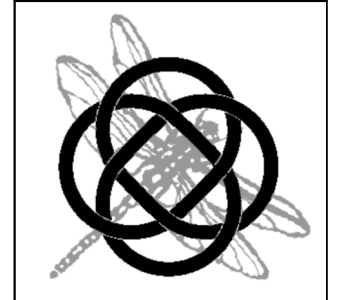
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ROOF PLAN

MOOSE MOUNTAIN VINEYARDS



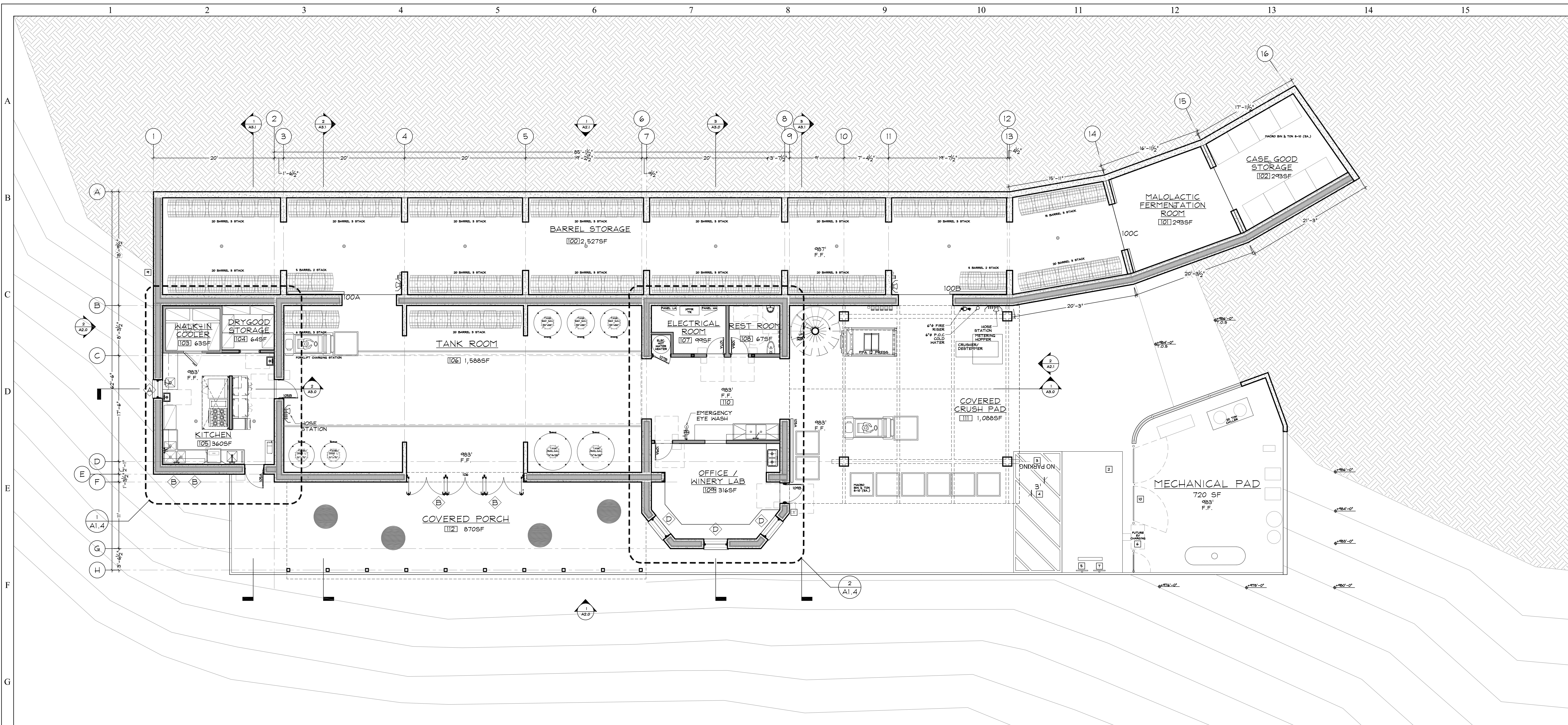
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SHEET:
A 1.1

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1 FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"
 0 2 4 8 16

PLAN NOTES:

- 1 LOCATION OF FIRE DEPARTMENT KNOX BOX ACCORDING TO LOCAL FIRE DEPARTMENT INSTRUCTIONS
- 2 INTERNATIONAL SYMBOL OF ACCESSIBILITY 3'x3' MIN.
- 3 WHITE LETTERING 12" IN HEIGHT
- 4 ACCESS AISLE WITH BLUE BORDER, HATCHED LINES AT 36" O.C. MAX.
- 5 TOW AWAY WARNING SIGN SEE ACCESSIBLE DETAILS SHEET A0.6
- 6 LOCATION OF FUTURE ACCESSIBLE EV CHARGING STATION. SEE A 0.3 NOTE 5.106.5.3
- 7 IDENTIFICATION SIGN SEE ACCESSIBLE DETAILS SHEET A0.6
- 8 ATTIC ACCESS PANEL, MIN. 22"x30"
- 9 LOCATION OF MAIN FIRE RISER ENTERS THE BUILDING
- 10 72" TALL CHAIN LINK FENCE WITH TWO 6 FT GATES AND 3FT ACCESS GATE

FLOOR AREA SUMMARY			
#	DESCRIPTION	COND. NET FLOOR AREA	UNCOND. NET FLOOR AREA
100	BRRL. STORAGE CAVE	2527	
101	EQUIPMENT STORAGE	293	
102	CASE GOOD STORAGE	293	
103	WALK-IN COOLER	62	
104	DRY GOOD STORAGE	56	
105	KITCHEN	360	
106	TANK ROOM	1588	
107	WINERY STORAGE	99	
108	UNISEX REST RM.	67	
109	OFFICE/ WINERY LAB	316	
110	EQUIPMENT	292	
111	COVERED CRUSH PAD		1088
112	COVERED PORCH		870
TOTALS:		5661	1958

REVISIONS BY:

OVERALL 1ST FLOOR PLAN

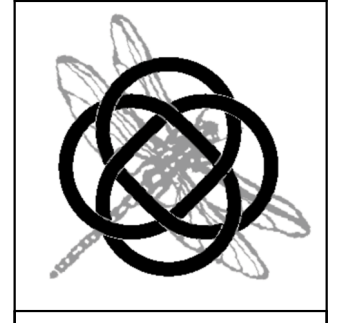
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MOOSE MOUNTAIN VINEYARDS

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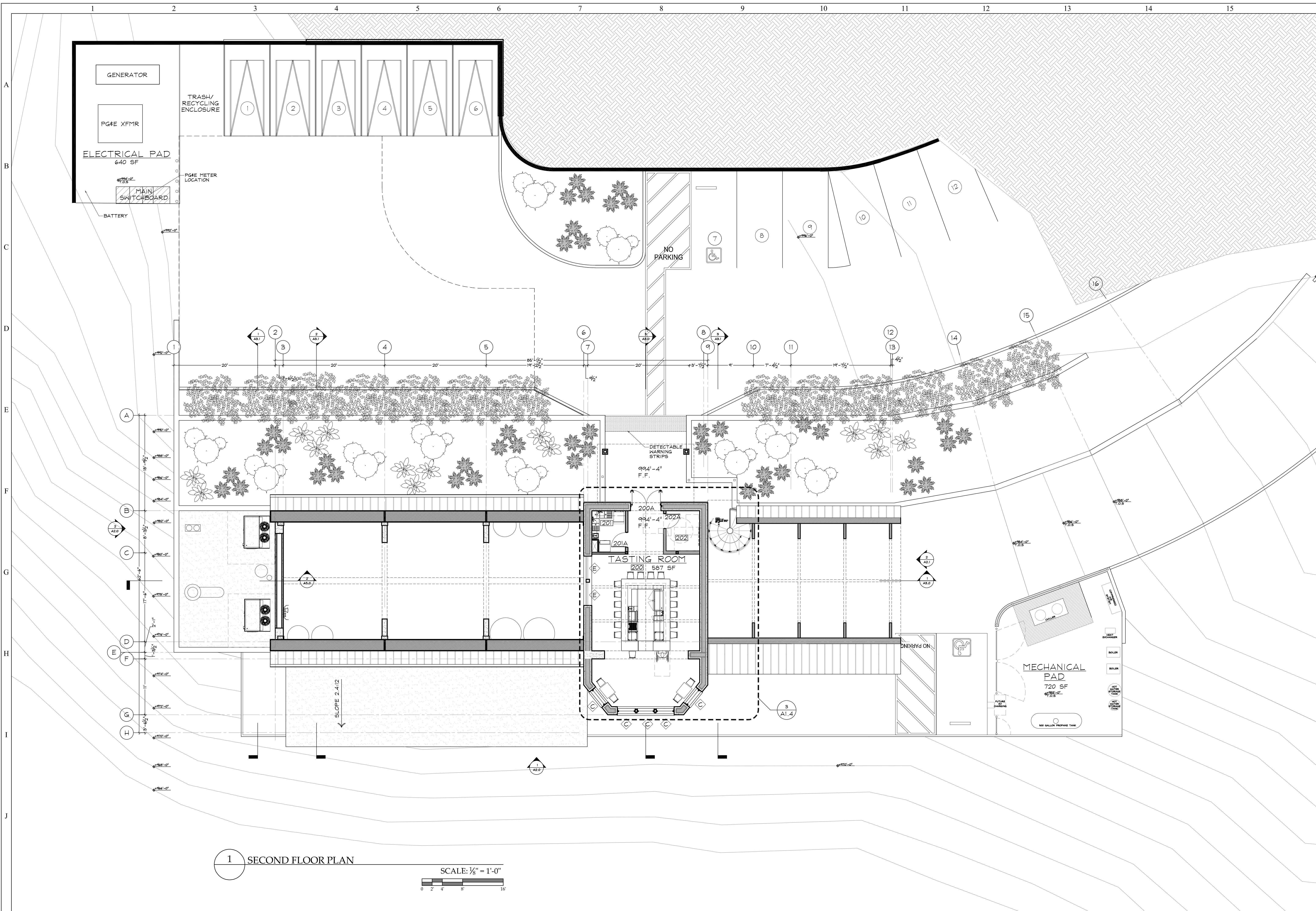
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JOB: 15614 MMV

SHEET:

A 1.2



1 SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"
 0 2 4 8 16

REVISIONS BY:

OVERALL 2ND FLOOR
 PLAN

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MOOSE MOUNTAIN
 VINEYARDS

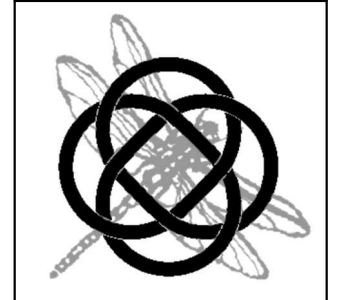
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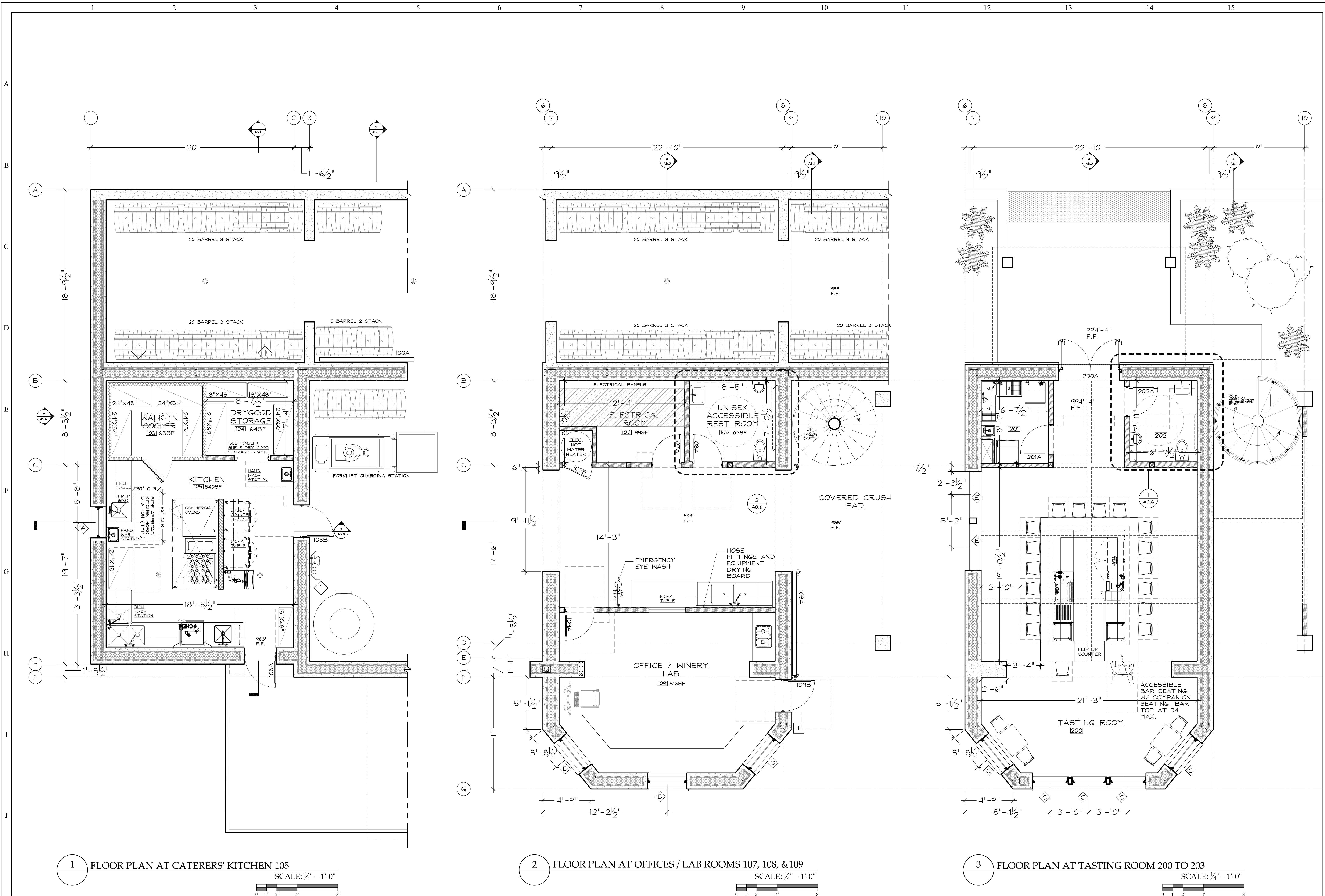
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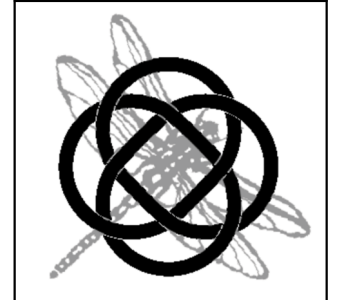
PLAN DETAILS

MOOSE MOUNTAIN VINEYARDS
3180 PASEO VISTA AVE. SAN MARTIN CA 95046
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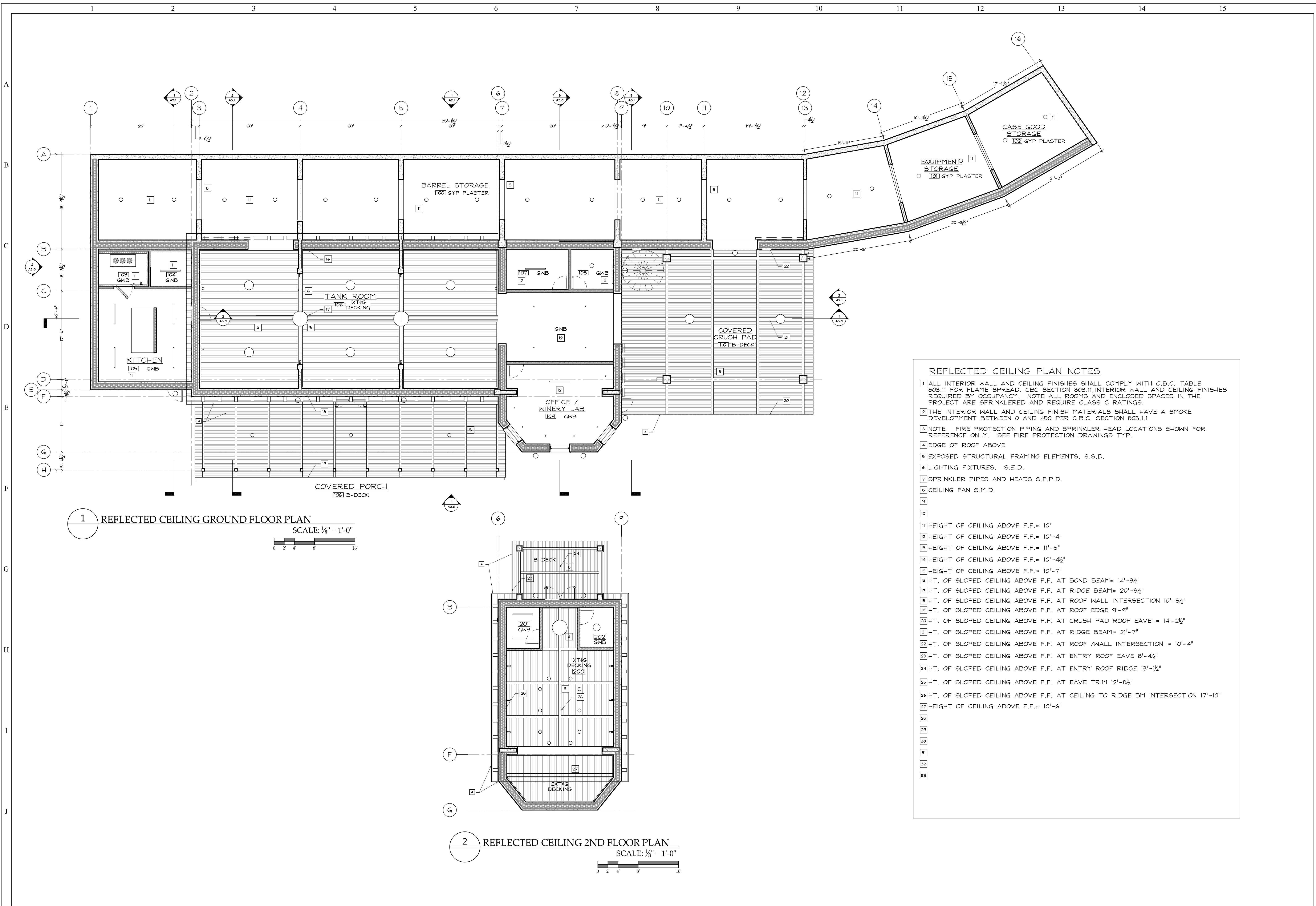
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- REFLECTED CEILING PLAN NOTES**
- ALL INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH C.B.C. TABLE 803.11 FOR FLAME SPREAD. CBC SECTION 803.11, INTERIOR WALL AND CEILING FINISHES REQUIRED BY OCCUPANCY. NOTE ALL ROOMS AND ENCLOSED SPACES IN THE PROJECT ARE SPRINKLERED AND REQUIRE CLASS C RATINGS.
 - THE INTERIOR WALL AND CEILING FINISH MATERIALS SHALL HAVE A SMOKE DEVELOPMENT BETWEEN 0 AND 450 PER C.B.C. SECTION 803.1.1
 - NOTE: FIRE PROTECTION PIPING AND SPRINKLER HEAD LOCATIONS SHOWN FOR REFERENCE ONLY. SEE FIRE PROTECTION DRAWINGS TYP.
 - EDGE OF ROOF ABOVE
 - EXPOSED STRUCTURAL FRAMING ELEMENTS. S.S.D.
 - LIGHTING FIXTURES. S.E.D.
 - SPRINKLER PIPES AND HEADS S.F.P.D.
 - CEILING FAN S.M.D.
 -
 -
 - HEIGHT OF CEILING ABOVE F.F.= 10'
 - HEIGHT OF CEILING ABOVE F.F.= 10'-4"
 - HEIGHT OF CEILING ABOVE F.F.= 11'-5"
 - HEIGHT OF CEILING ABOVE F.F.= 10'-4½"
 - HT. OF CEILING ABOVE F.F. AT BOND BEAM= 14'-3½"
 - HT. OF SLOPED CEILING ABOVE F.F. AT RIDGE BEAM= 20'-8½"
 - HT. OF SLOPED CEILING ABOVE F.F. AT ROOF WALL INTERSECTION 10'-5½"
 - HT. OF SLOPED CEILING ABOVE F.F. AT ROOF EDGE 9'-9"
 - HT. OF SLOPED CEILING ABOVE F.F. AT CRUSH PAD ROOF EAVE = 14'-2½"
 - HT. OF SLOPED CEILING ABOVE F.F. AT RIDGE BEAM= 21'-7"
 - HT. OF SLOPED CEILING ABOVE F.F. AT ROOF /WALL INTERSECTION = 10'-4"
 - HT. OF SLOPED CEILING ABOVE F.F. AT ENTRY ROOF EAVE 8'-4¼"
 - HT. OF SLOPED CEILING ABOVE F.F. AT ENTRY ROOF RIDGE 13'-1¼"
 - HT. OF SLOPED CEILING ABOVE F.F. AT EAVE TRIM 12'-8½"
 - HT. OF SLOPED CEILING ABOVE F.F. AT CEILING TO RIDGE BM INTERSECTION 17'-10"
 - HEIGHT OF CEILING ABOVE F.F.= 10'-6"
 -
 -
 -
 -
 -

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REFLECTED CEILING PLAN

MOOSE MOUNTAIN VINEYARDS
 3180 PASEO VISTA AVE. SAN MARTIN CA 95046
 APN: 825-29-029

PLAN REVIEW SET

REGISTERED PROFESSIONAL ENGINEER
 GARY BLAKE
 CIVIL
 STATE OF CALIFORNIA

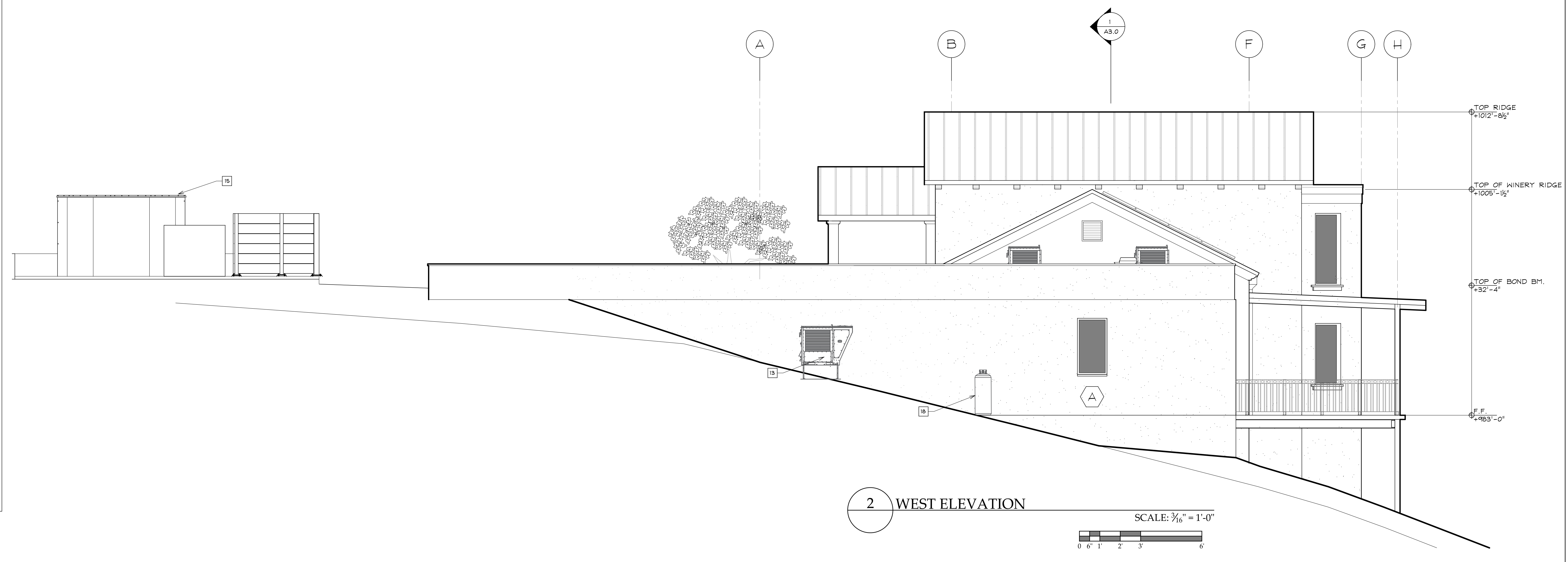
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 SHEET:
A 1.5



1 SOUTH ELEVATION
 SCALE: 3/16" = 1'-0"
 0 6' 1' 2' 3' 6'

- ELEVATION NOTES**
- 1 STANDING SEAM ROOF, BONDERIZED DARK GRAY COLOR, WESTERN STATES METAL ROOFING.
 - 2 CONCRETE EXTERIOR WALL, SHOTCRETE GUN FINISH, COLOR - NATURAL CEMENT /LRV 40%
 - 3 CAST STONE COLUMNS, ALL CAST STONE ACCENTS, COLOR -AUTUMN GOLD 5844 /LRV 80%
 - 4 CAST STONE WALL CAP
 - 5 STEEL WINDOWS, 20 MIN. RATED OR DOUBLE PANE GLASS WITH ONE PANE TEMPERED. TORRANCE WINDOW CO. SERIES 1900 COLOR ANTIQUE RUBBED BRONZE. /LRV 8%
 - 6 STEEL ENTRY DOORS, 20 MIN. FIRE RATED ASSEMBLY OR DOUBLE PANE GLAZING WITH ONE PANE TEMPERED
 - 7 EXTERIOR SOLID CORE WOOD DOORS, STILES AND RAILS NOT LESS THAN 1 3/8" THK. PANELS NOT LESS THAN 1/2" THK.
 - 8 SLIDING WINERY DOOR, WOOD CONSTRUCTION, STILES AND RAILS ARE 1 1/2" WOOD CONSTRUCTION. DOOR IS WRAPPED IN SHEET METAL TO PROVIDE IGNITION RESISTANCE.
 - 9 SOLAR PANEL PV ARRAY
 - 10 HEAVY TIMBER TRUSSES
 - 11 BONDERIZED ZINC GUTTERS AND DOWNSPOUTS.
 - 12 MECHANICAL VENTS FOR MAKE UP AIR RATED FOR WUII USE.
 - 13 MAKE UP AIR UNIT
 - 14 KITCHEN EXHAUST FAN
 - 15 ELECTRICAL SWITCH GEAR, GENERATOR, TRANSFORMER
 - 16 H.S.S. STEEL COLUMNS AND BEAMS
 - 17 500 GALLON PROPANE TANK
 - 18 100 GALLON PROPANE TANK MOUNTED TO WALL
 - 19 CAST STONE CORBELS



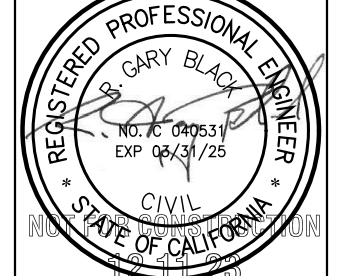
2 WEST ELEVATION
 SCALE: 3/16" = 1'-0"
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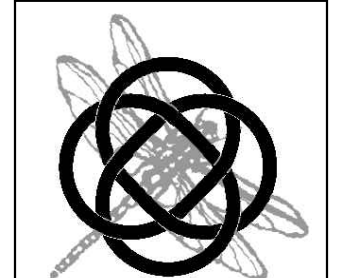
EXTERIOR ELEVATIONS
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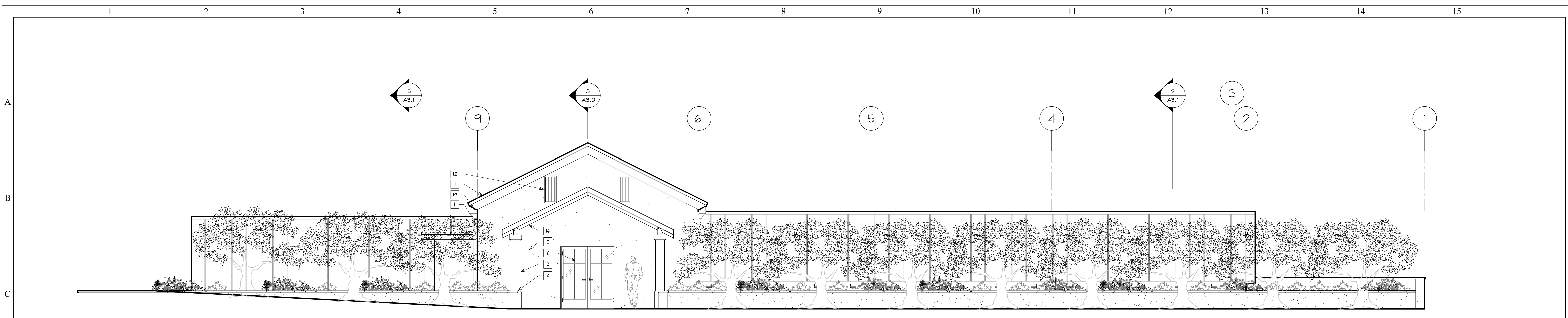


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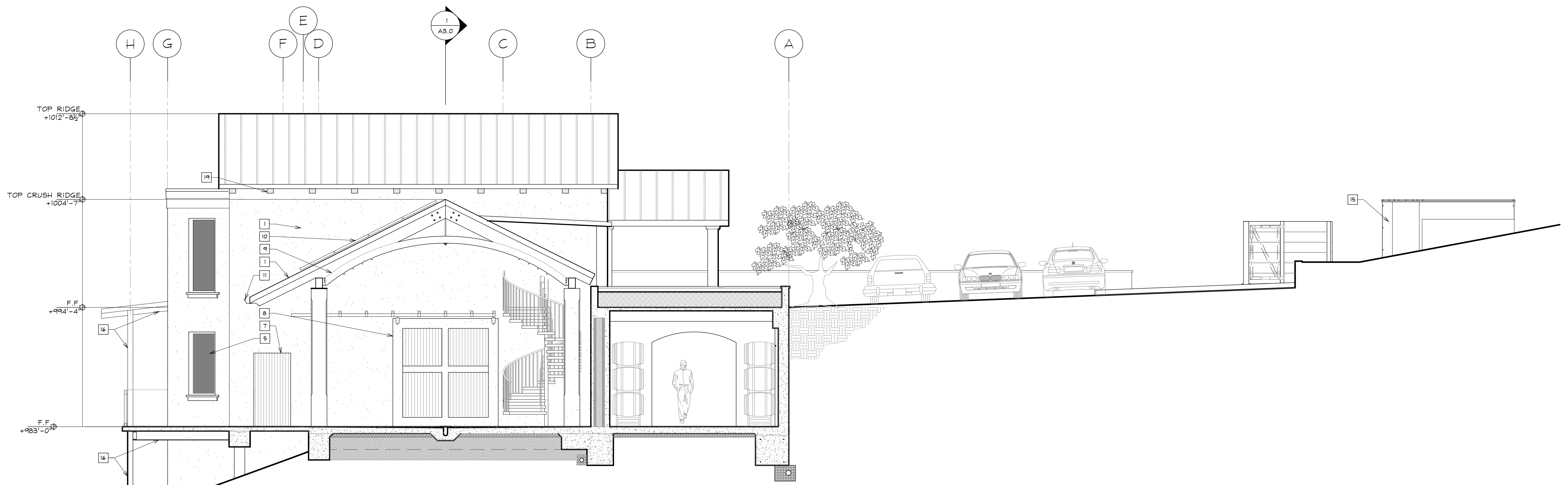
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 JOB: 15614 MMV

SHEET:
A 2.0



1 NORTH ELEVATION
SCALE: 3/16" = 1'-0"

- ELEVATION NOTES**
- 1 STANDING SEAM ROOF, BONDERIZED DARK GRAY COLOR, WESTERN STATES METAL ROOFING.
 - 2 CONCRETE EXTERIOR WALL, SHOTCRETE GUN FINISH, COLOR - NATURAL CEMENT /LRV 40%
 - 3 CAST STONE COLUMNS, ALL CAST STONE ACCENTS, COLOR -AUTUMN GOLD 5844 /LRV 80%
 - 4 CAST STONE WALL CAP
 - 5 STEEL WINDOWS, 20 MIN. RATED OR DOUBLE PANE GLASS WITH ONE PANE TEMPERED TORRANCE WINDOW CO. SERIES 1900 COLOR ANTIQUE RUBBED BRONZE. /LRV 6%
 - 6 STEEL ENTRY DOORS, 20 MIN. FIRE RATED ASSEMBLY OR DOUBLE PANE GLAZING WITH ONE PANE TEMPERED
 - 7 EXTERIOR SOLID CORE WOOD DOORS, STILES AND RAILS NOT LESS THAN 1 3/8" THK. PANELS NOT LESS THAN 1/4" THK.
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 - 15 ELECTRICAL SWITCH GEAR, GENERATOR, TRANSFORMER
 - 16 H.S.S. STEEL COLUMNS AND BEAMS
 - 17 500 GALLON PROPANE TANK
 - 18 100 GALLON PROPANE TANK MOUNTED TO WALL
 - 19 CAST STONE CORBELS

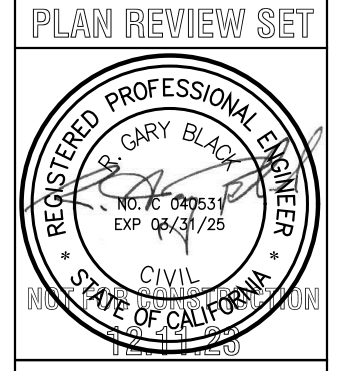


2 EAST ELEVATION
SCALE: 3/16" = 1'-0"

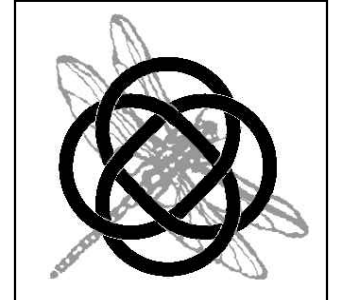
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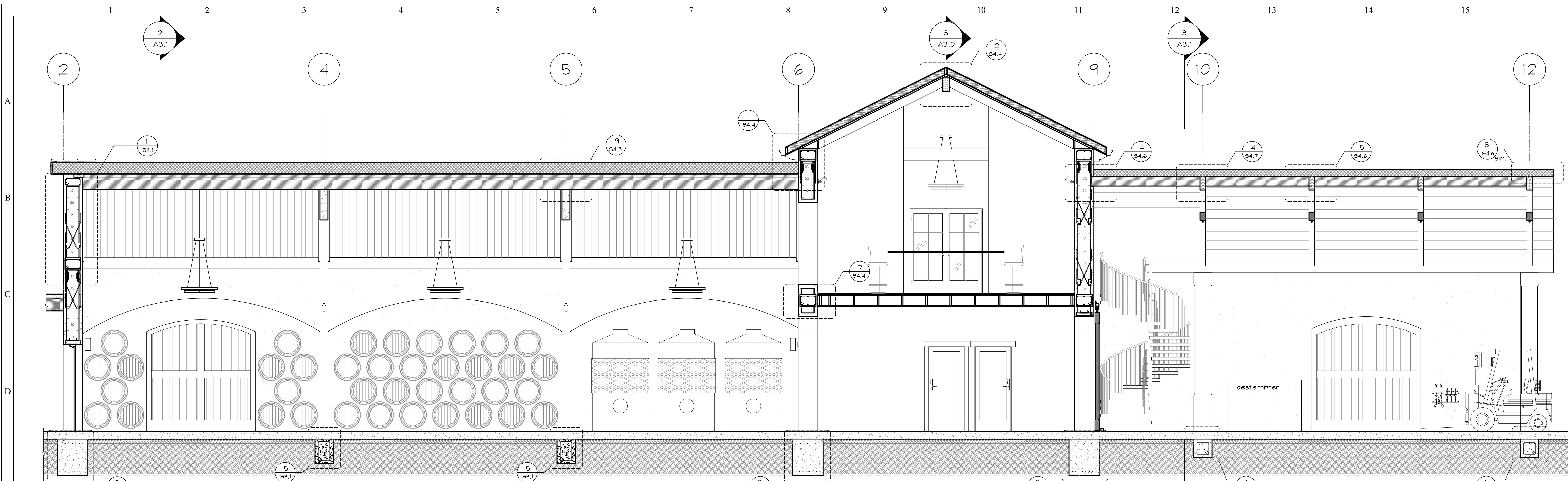


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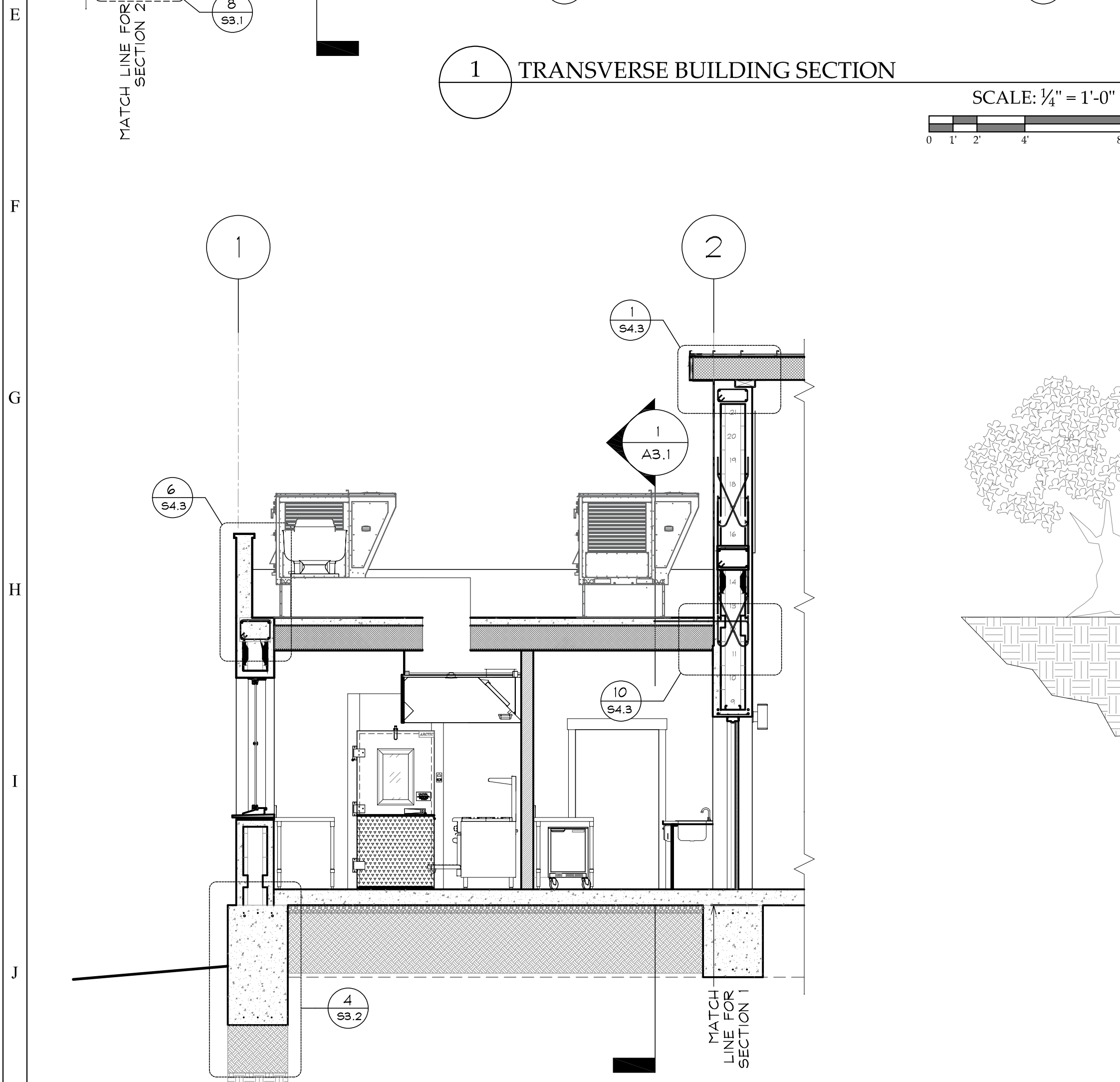


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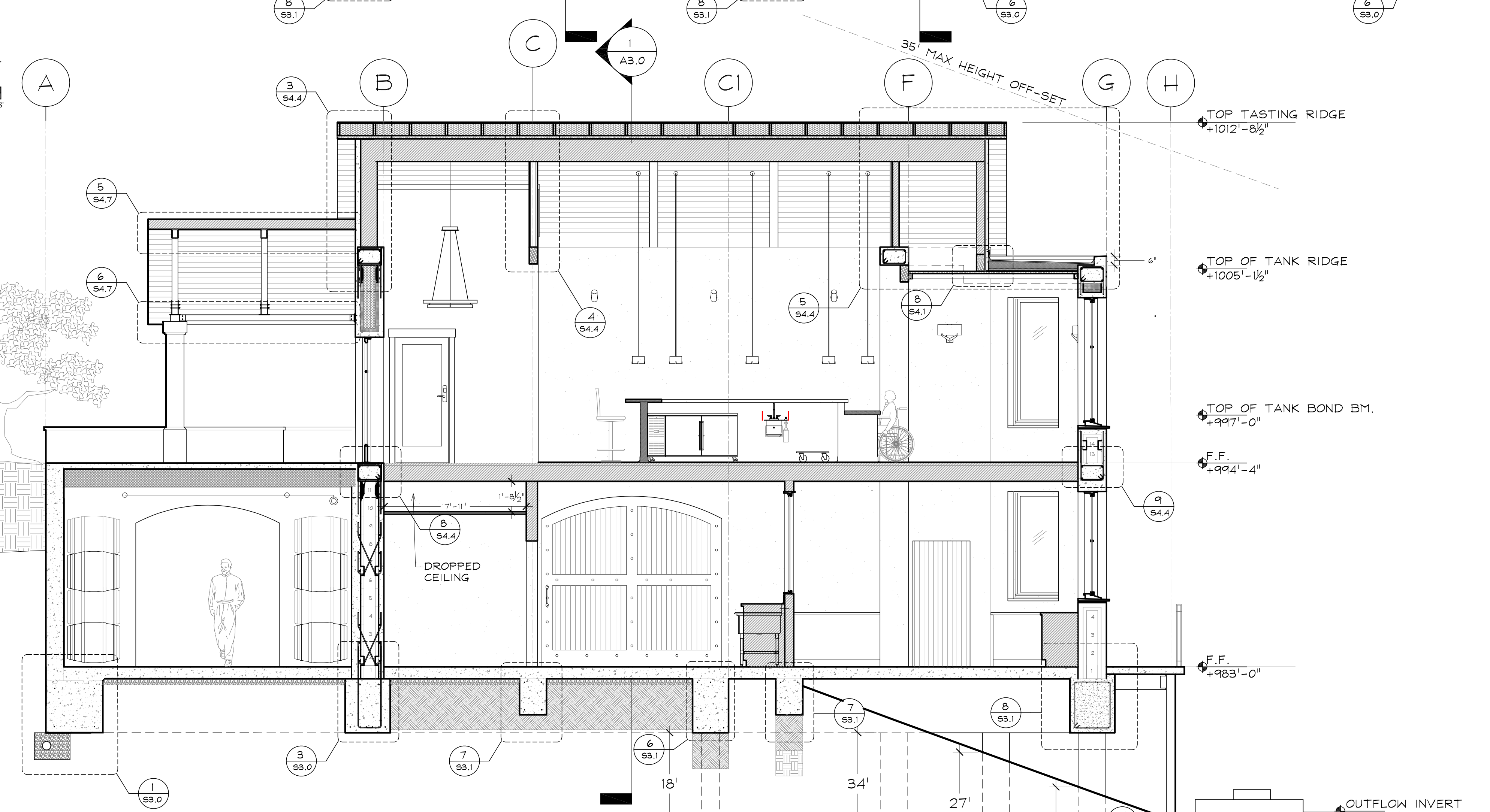
SHEET:
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1 TRANSVERSE BUILDING SECTION
 SCALE: 1/4" = 1'-0"



2 TRANSVERSE BUILDING SECTION, KITCHEN
 SCALE: 1/4" = 1'-0"



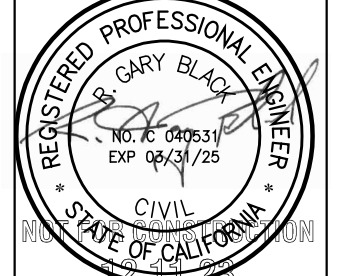
3 TRANSVERSE TASTING RM. SECTION
 SCALE: 1/4" = 1'-0"

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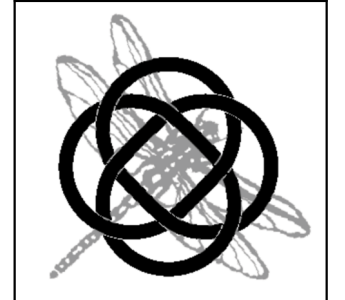
BUILDING SECTIONS

MOOSE MOUNTAIN VINEYARDS
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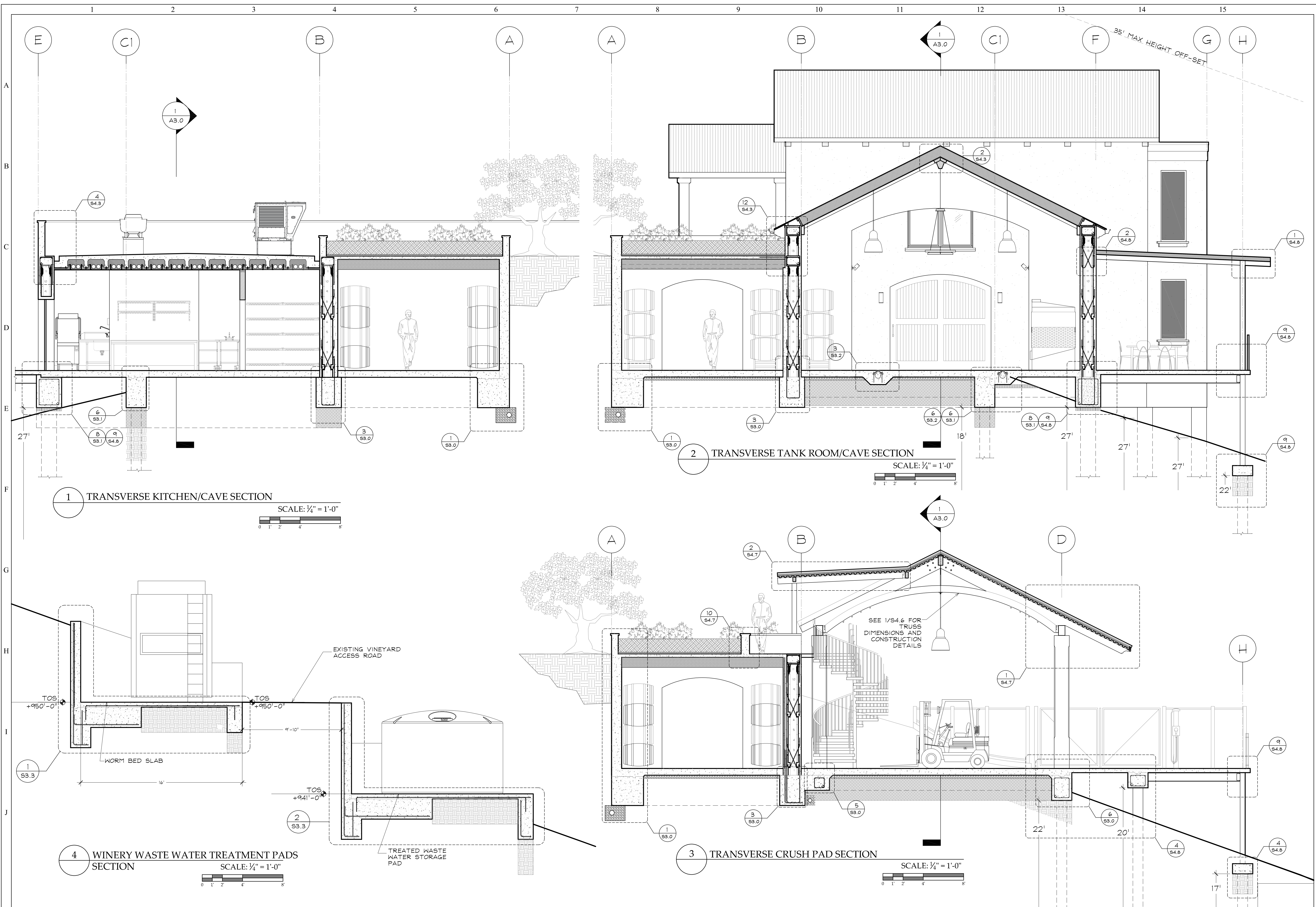


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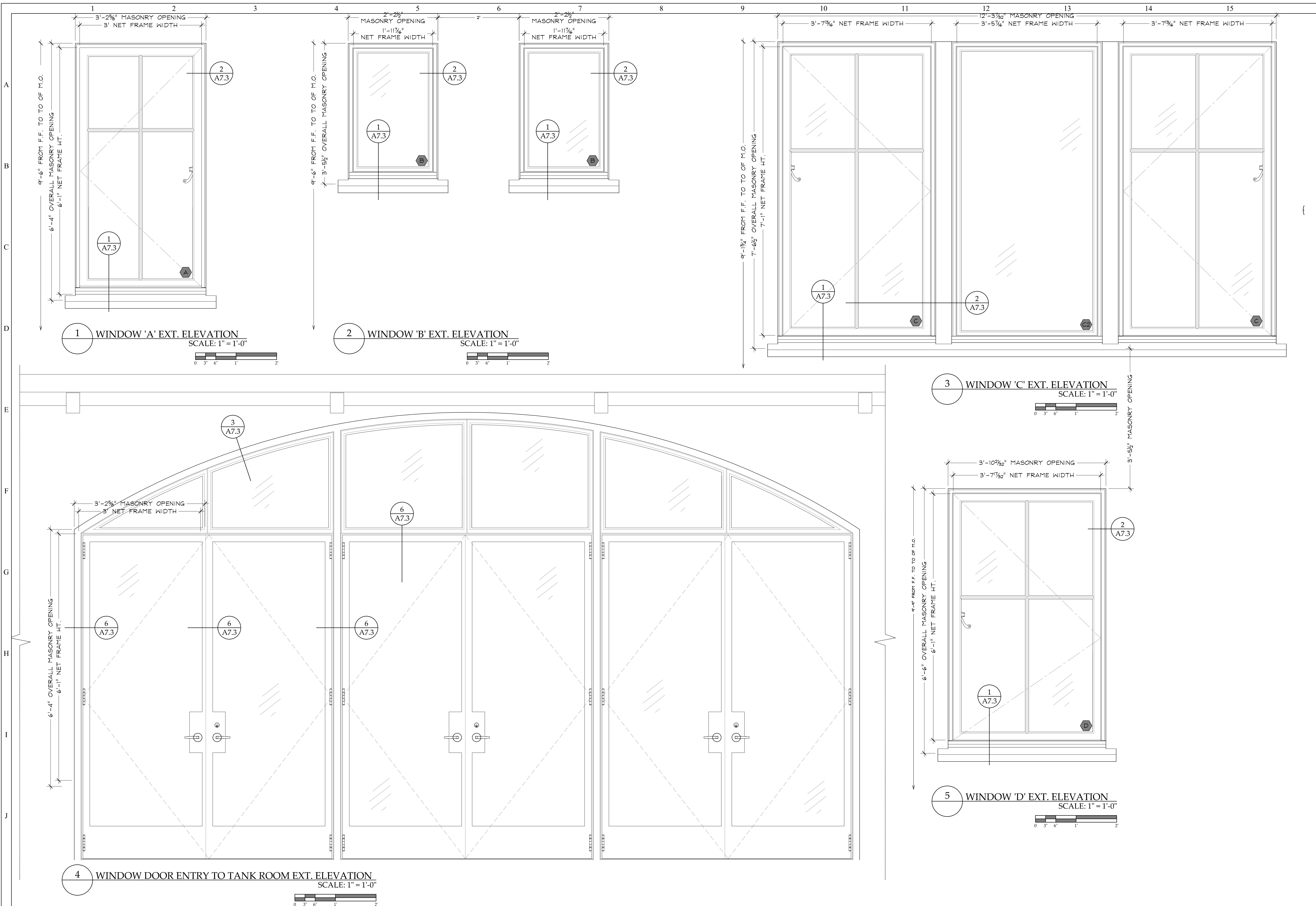


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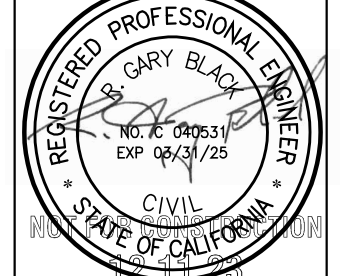
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WINDOW AND DOOR ELEVATIONS

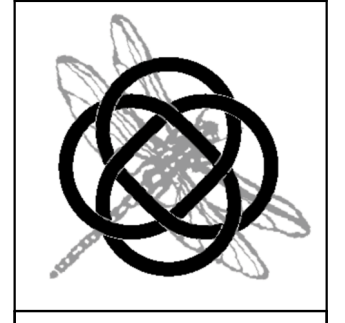
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MOOSE MOUNTAIN VINEYARDS
 3180 PASEO VISTA AVE. SAN MARTIN CA 95046
 APN: 825-29-029

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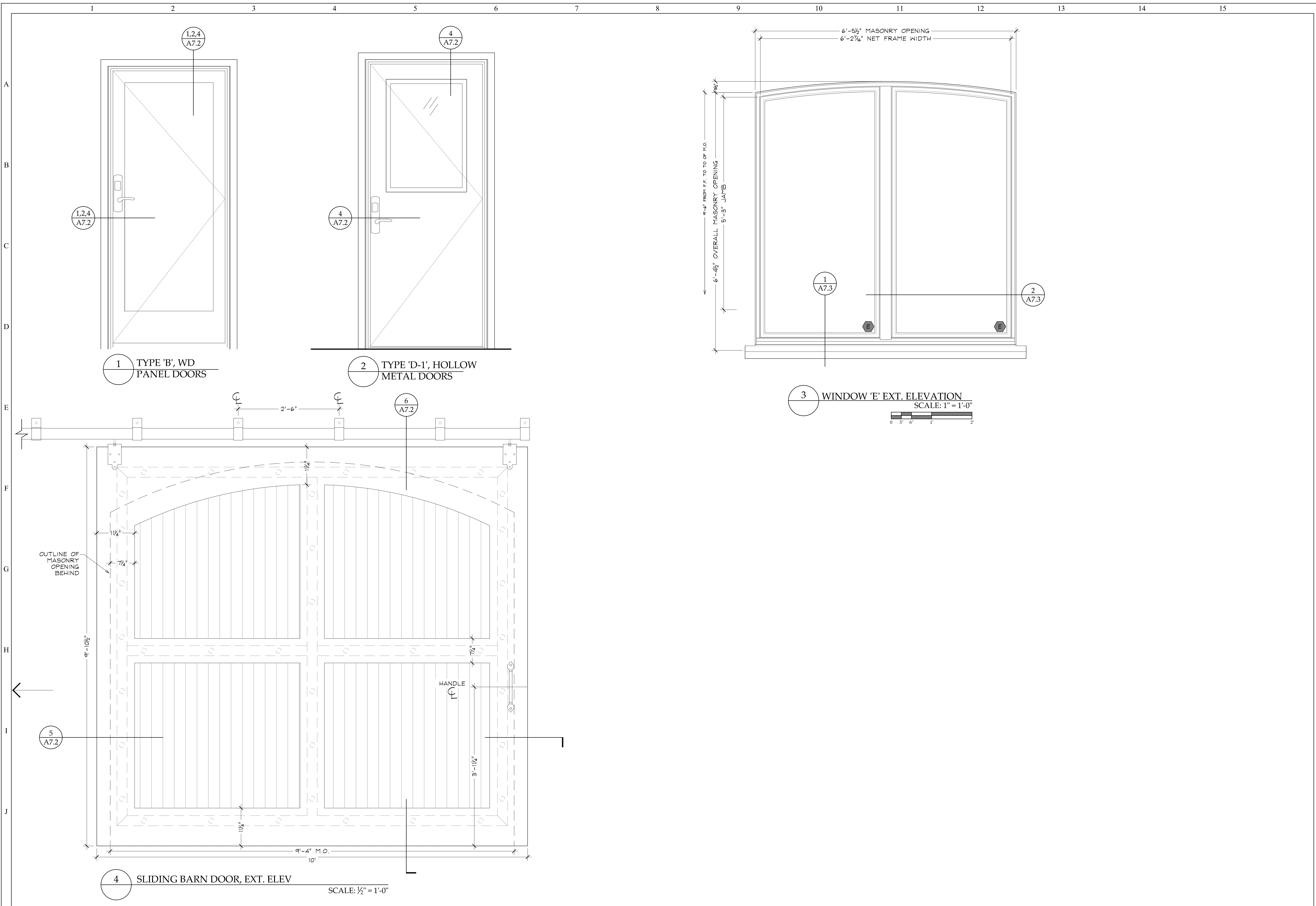


INTEGRATED STRUCTURES, INC.
 ARCHITECTURE ENGINEERING CONSTRUCTION MANAGEMENT
 1265 65TH Street, Emeryville, CA 94608
 Tel: (510) 735-9801



DATE: 12/11/23
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 JOB: 15614 MMV

SHEET:
A 7.0



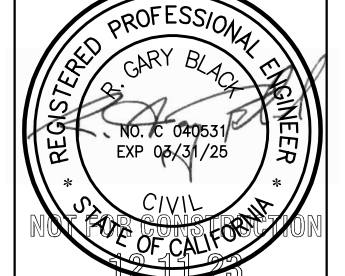
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WINDOW AND DOOR ELEVATIONS II

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DOOR SCHEDULE							
DOOR NO.	LOCATION	SIZE (WXH)	TYPE	MATL.	FINISH	HARDWARE	REMARKS
100A	100 CAVE TO TANK RM.	60X80	F	WD-2	WD-1	SLIDING DOOR HARDWARE	
100B	100 CAVE TO CRUSH PAD	36X84	F	WD-2	GLV	SLIDING DOOR HARDWARE	1,6
103	103 WALK IN COOLER	36X84	B-2	WD-1	P-1	INSULATED COOLER DOOR	1
105A	105 KITCHEN EXT	36X84	B-3	WD-1	P-1	EXTERIOR DR.1	1, 9, 10
105B	105 KITCHEN INT	36X84	D-1	HM	GLV		6,7,8
106	106 TANK ROOM	(6)36X84		STEEL	P-2		6,7,8,9,10
107A/B	107 ELECTRICAL	36X84	D-1	HM	GLV		6,7,8
108	108 REST ROOM	36X84	D-1	HM	GLV		
109A	109 LAB/OFFICE INT	36X84	D-1	HM	GLV		
109B	109 LAB/OFFICE EXT	36X84		HM	WD-1		1,9,10
110	110 ENTRY	112X134	F	WD-2		SLIDING DOOR HARDWARE	2,9,10
200	200 TASTING RM.	(2)36X84		STEEL	P-2		1,9,10
201	201 SCULLERY	36X84	B-2	WD-1	P-1		
202	202 REST ROOM	36X84	B-2	WD-1	P-1		

GENERAL NOTES:

- DOOR TYPES AS DRAWN ON SHT A7.0
- SEE PLANS FOR DOOR HANDING/SWINGS
- OPERABLE PARTS OF DOOR HARDWARE SHALL BE 3/4" MINIMUM AND 4 1/2" MAXIMUM ABOVE THE FINISH FLOOR.
- OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
- THE FORCE FOR OPENING DOORS SHALL BE 5 LBS. MAX.
- THE DOOR HARDWARE WILL BE LEVER TYPE OR PANIC BARS (MECHANICAL RM)
- SWINGING DOORS AND GATE SURFACES WITHIN 10' OF THE FINISH FLOOR MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE.
- SAFETY GLAZING, TEMPERED GLASS, SHALL BE REQUIRED IN ALL DOORS
- PROJECT IS LOCATED IN WILDLAND-URBAN INTERFACE ZONE EXTERIOR WINDOWS AND EXTERIOR GLAZED DOOR ASSEMBLIES CBC 70B2.1 SHALL COMPLY WITH ONE OF THE FOLLOWING:
 - CONSTRUCTED OF MULTIPANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING REQUIREMENTS OF CBC 2406
 - HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED IN ACCORDANCE WITH NFPA 257

GENERAL NOTES:

- EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING:
 - EXTERIOR SURFACE OR CLADDING SHALL BE OF NON-COMBUSTIBLE OR IGNITION RESISTANT MATERIALS OR
 - CONSTRUCTED OF SOLID CORE WOOD THAT HAS STILES AND RAILS NOT LESS THAN 1 3/8" THK., RAISED PANELS SHALL BE NOT LESS THAN 1/2" THK. EXCEPT FOR PERIMETER OF RAISED PANEL MAY TAPER A TONGUE NOT LESS THAN 3/8" THK.

REMARKS:

- CUSTOM J-20 WOOD PANEL DOOR, 1 3/4" THK
- INSULATED WOOD SLIDING DOOR
- ACTIVE DOOR WITH PANIC HARDWARE EXIT DEVICE + INACTIVE DOOR WITH FLUSH BOLTS
- ONE HOUR FIRE RATED DOOR
- INSULATED HOLLOW METAL DOORS, BOTH DOORS ACTIVE WITH PUSH-PULL HARDWARE AND CLOSERS
- ACCESSIBLE KICK-PLATES IN COMPLIANCE WITH CBC 11B-404.2.10 BOTH SIDES OF DOOR
- HM DOOR JAMB
- PAINT AND STAIN COLORS TO BE SELECTED BY ARCHITECT.

LEGEND:

FF - FACTORY FINISH
GLV - GALVANIZED
HM - HOLLOW METAL
P - PAINT
S - STAIN
STL - STEEL
WD-1 DOUG FIR
WD-2 CLEAR WESTERN RED CEDAR

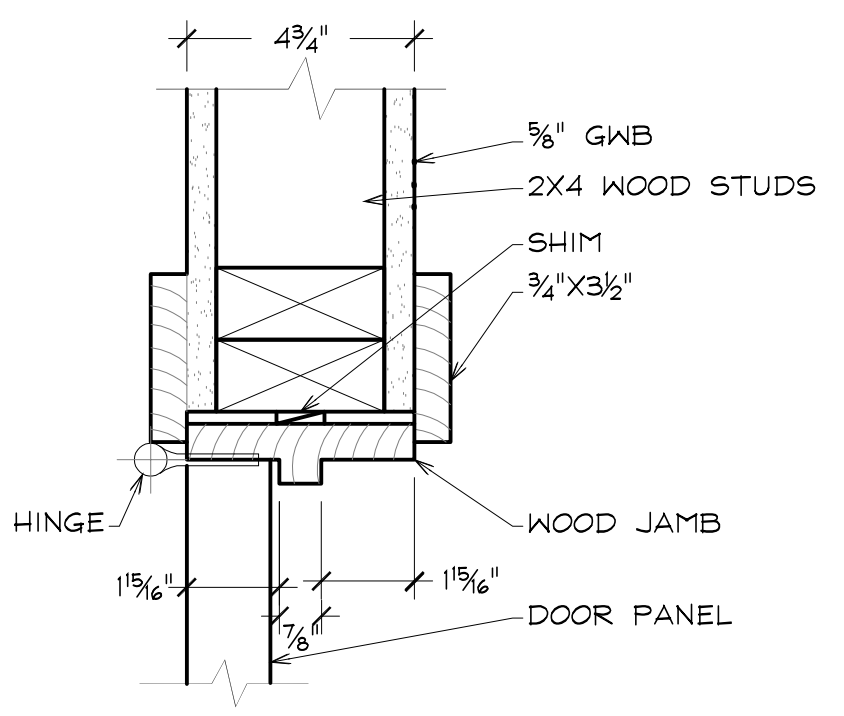
WINDOW SCHEDULE									
TYPE	LOCATION	SIZE (NET FRAME WXH)	SLL HT ABOVE F.F.	ROUGH OPENING	OPER.	MATL.	FINISH	GLAZING	REMARKS
A	105 KITCHEN	31X54	36"	33X58 3/8"	CASEMENT	STL	P-4	GL - 1	
B	105 KITCHEN	23 1/2 X 33			FIXED	AL	P-7	GL - 1	
C	200 TASTING	71X7 1/2			FIXED	STL	P-4	GL - 1	
C2	200 TASTING								
D	109 OFFICE/ LAB	31X17 1/2	95 1/2"	33X22 1/2"	AWNING	STL	P-4	GL - 1	
E	200 TASTING	63X66			FIXED/HOPPER	STL	P-5	GL - 1	EXISTING
F	106 TANK RM	(2)36X86			FIXED, SIDE LITE	STL	P-5	GL - 1	
G	105 TANK ROOM	112X134			FIXED CLR STORY	STL	P-5	GL - 1	

GENERAL NOTES:

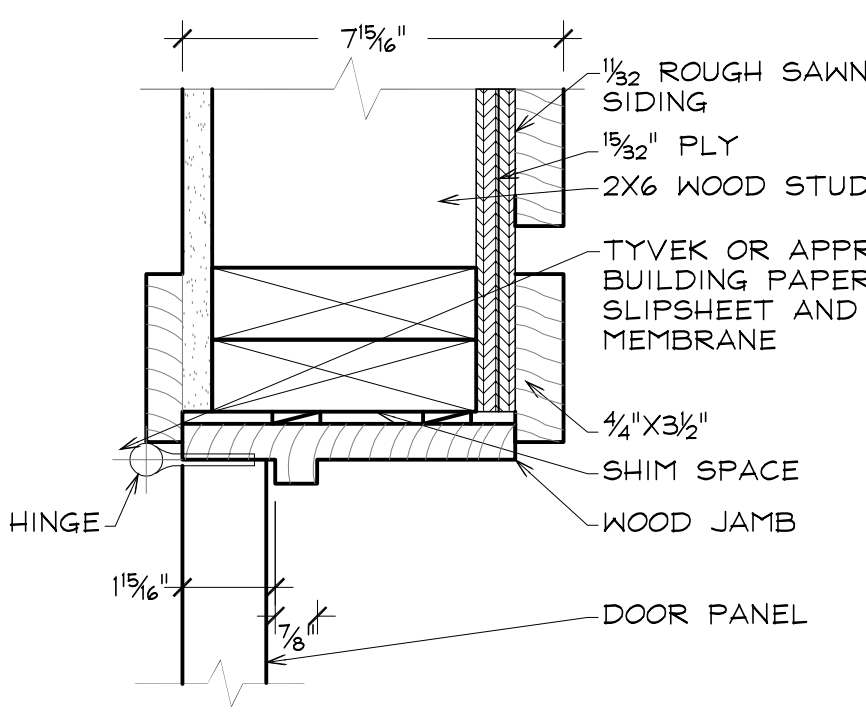
- WINDOW TYPES AS DRAWN ON SHT A7.0
- ALL WINDOWS AS INDICATED STEEL WINDOWS FROM TORRANCE STEEL WINDOW CO. INC. CENTURY 2000 SERIES, EXCEPT TYPE B IN THE CUPOLA WHICH IS SERIES 5000 ARCH AL FIXED, TYPE 'E' WHICH IS A DIRECT GLAZE IN WOOD FRAMING.
- PROVIDE WINDOW SCREEN AT OPERABLE SASH.
- TEMPERED GLASS IS REQUIRED ADJACENT IN WINDOW PANES WITHIN 24" OF A DOOR EDGE.
- TEMPERED GLASS, SHALL BE REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS EXIST: (i) EXPOSED AREA OF PANE IS GREATER THAN 9 SF, (ii) THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE FINISHED FLOOR, (iii) THE TOP EDGE OF THE GLAZING IS GREATER THAN 36" ABOVE THE F.F., AND ONE OR MORE WALKING SURFACES ARE WITHIN 36" MEASURED HORIZONTALLY AND IN A STRAIGHT LINE OF THE PLANE OF GLAZING.
- FIELD VERIFY MASONRY AND ROUGH FRAMING OPENINGS AT ALL WINDOW AND DOOR LOCATIONS.

REMARKS:

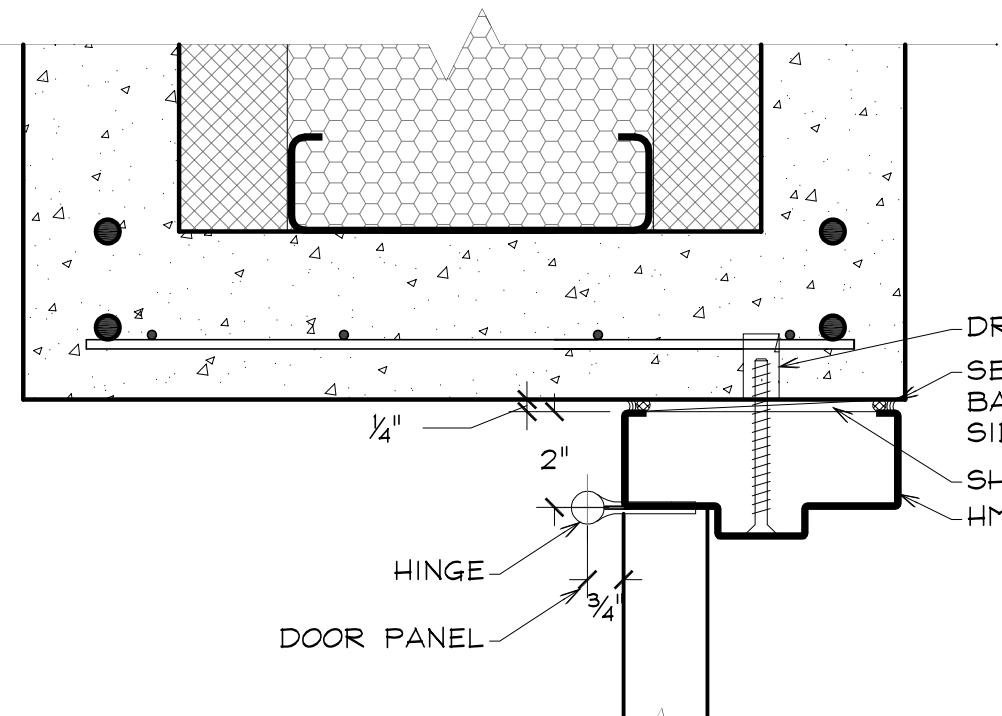
- GL-1 DBL GLAZED, LOW SOLAR GAIN LOW E GLASS, ARGON, 3/4" THK UNIT. U-FACTOR 0.41-0.55, SHGC 0.25, VT 0.51-0.60
- PAINT AND STAIN COLORS TO BE SELECTED BY ARCHITECT.



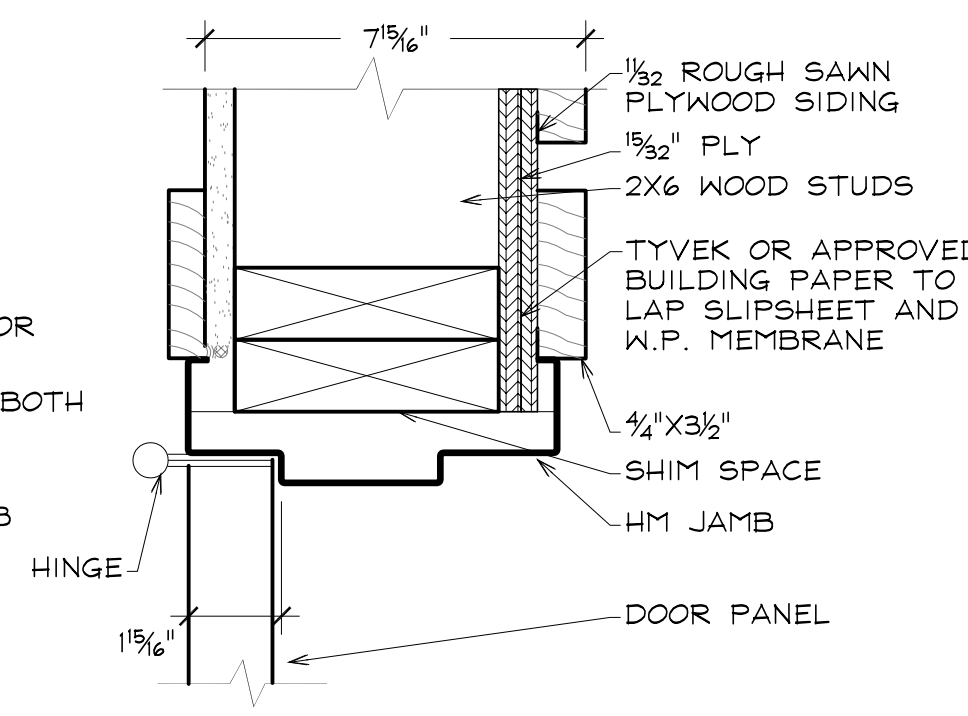
1 WD DR JAMB / HEAD DTL. SCALE: 3" = 1'-0"



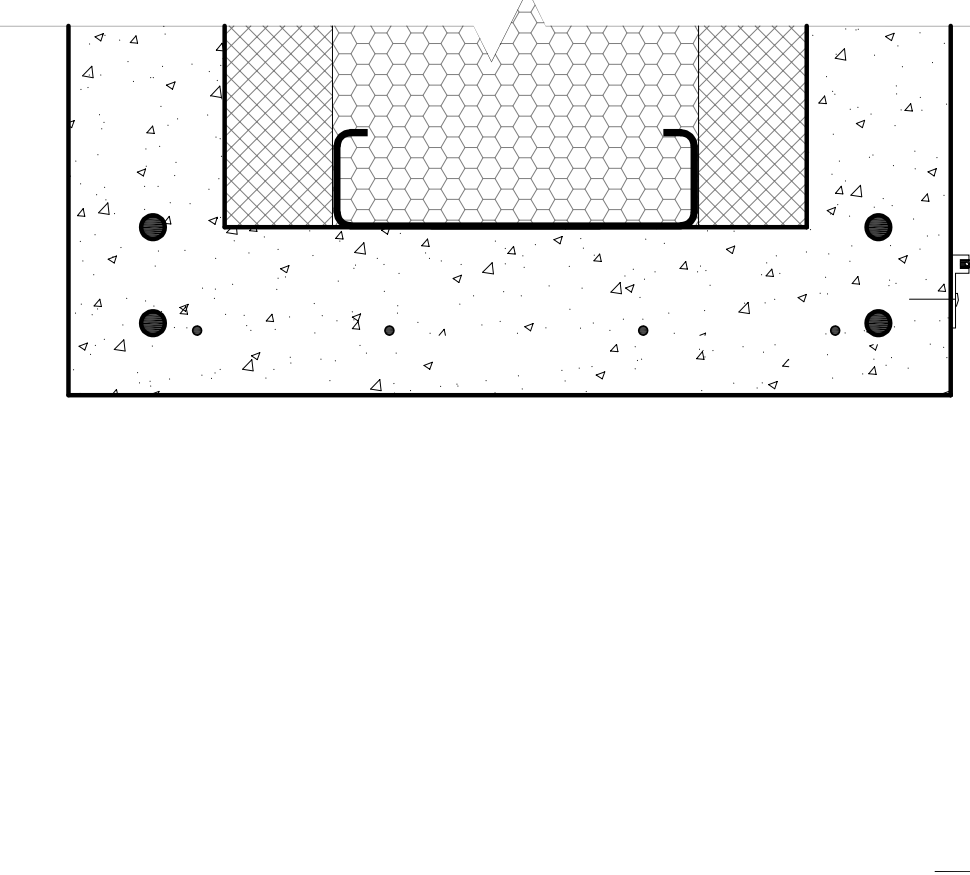
2 WD DR JAMB / HEAD DTL. SCALE: 3" = 1'-0"



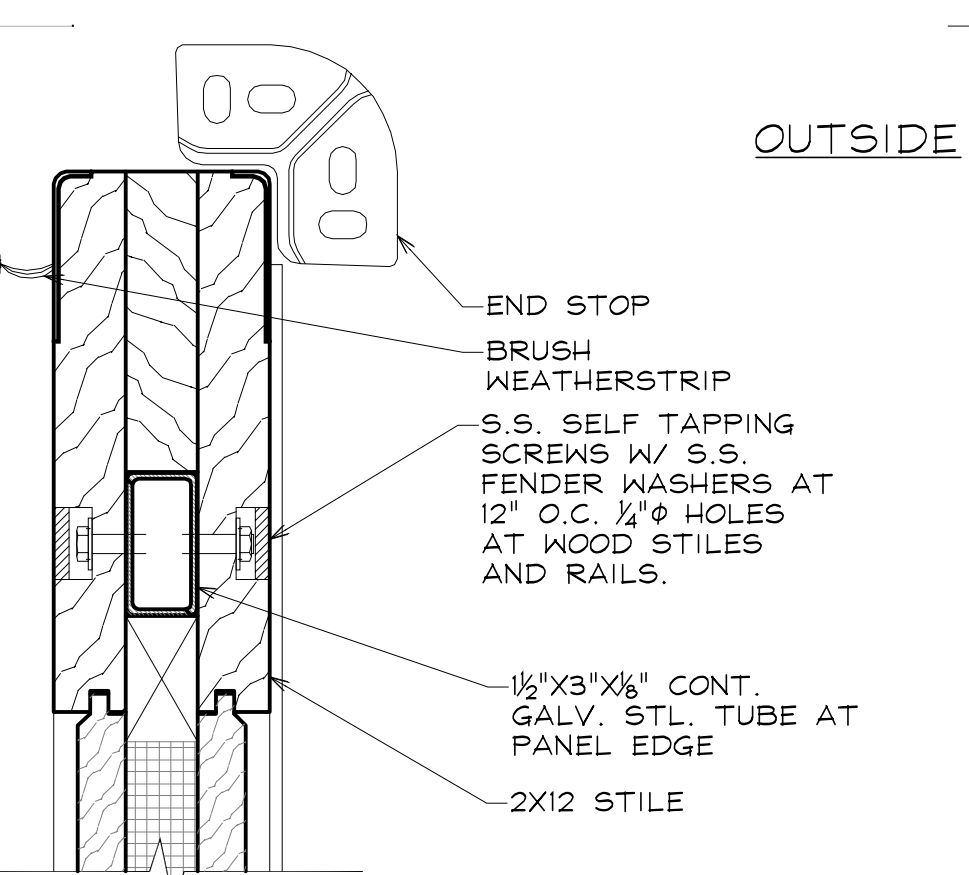
3 STL DR JAMB / HEAD DTL. SCALE: 3" = 1'-0"



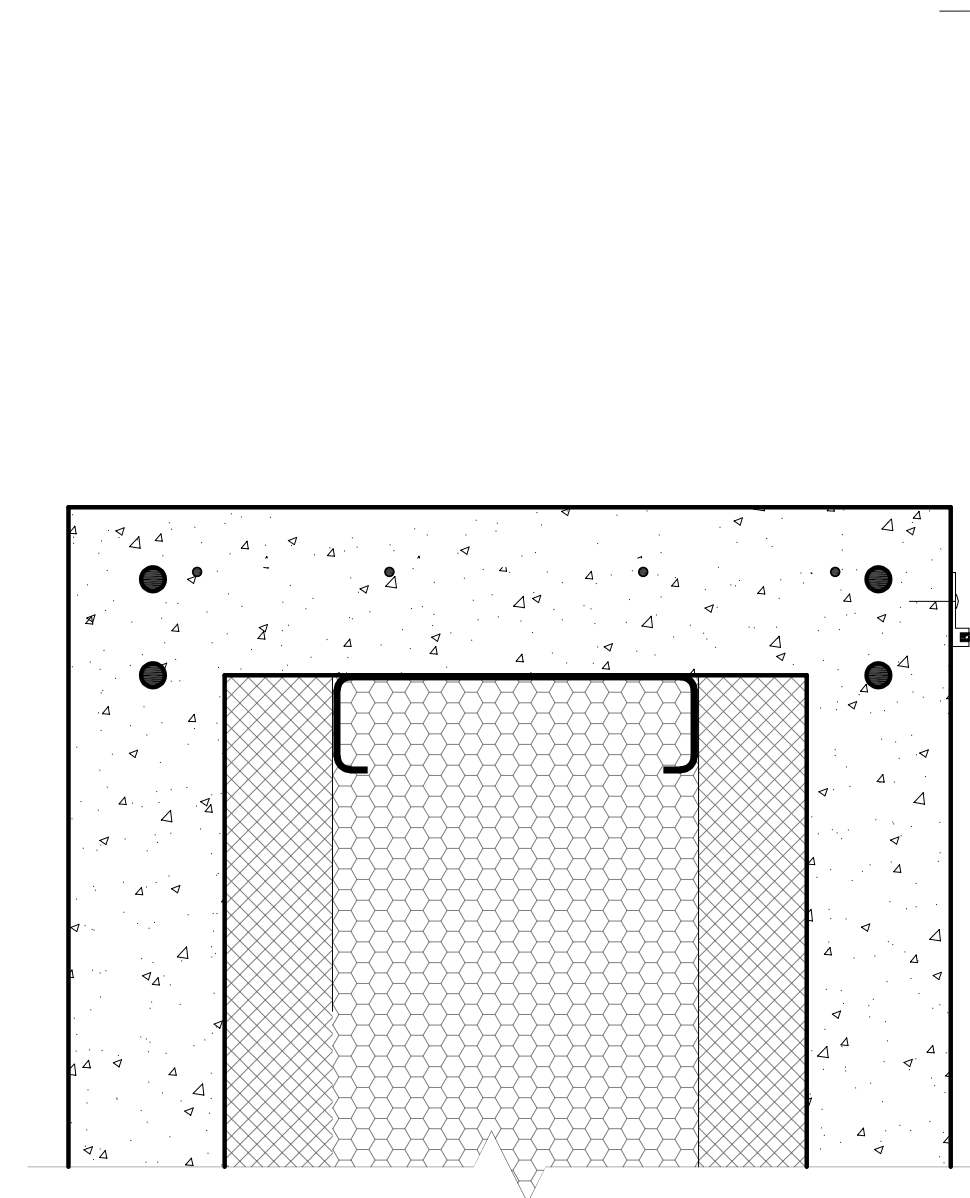
4 HM DR JAMB DTL. SCALE: 3" = 1'-0"



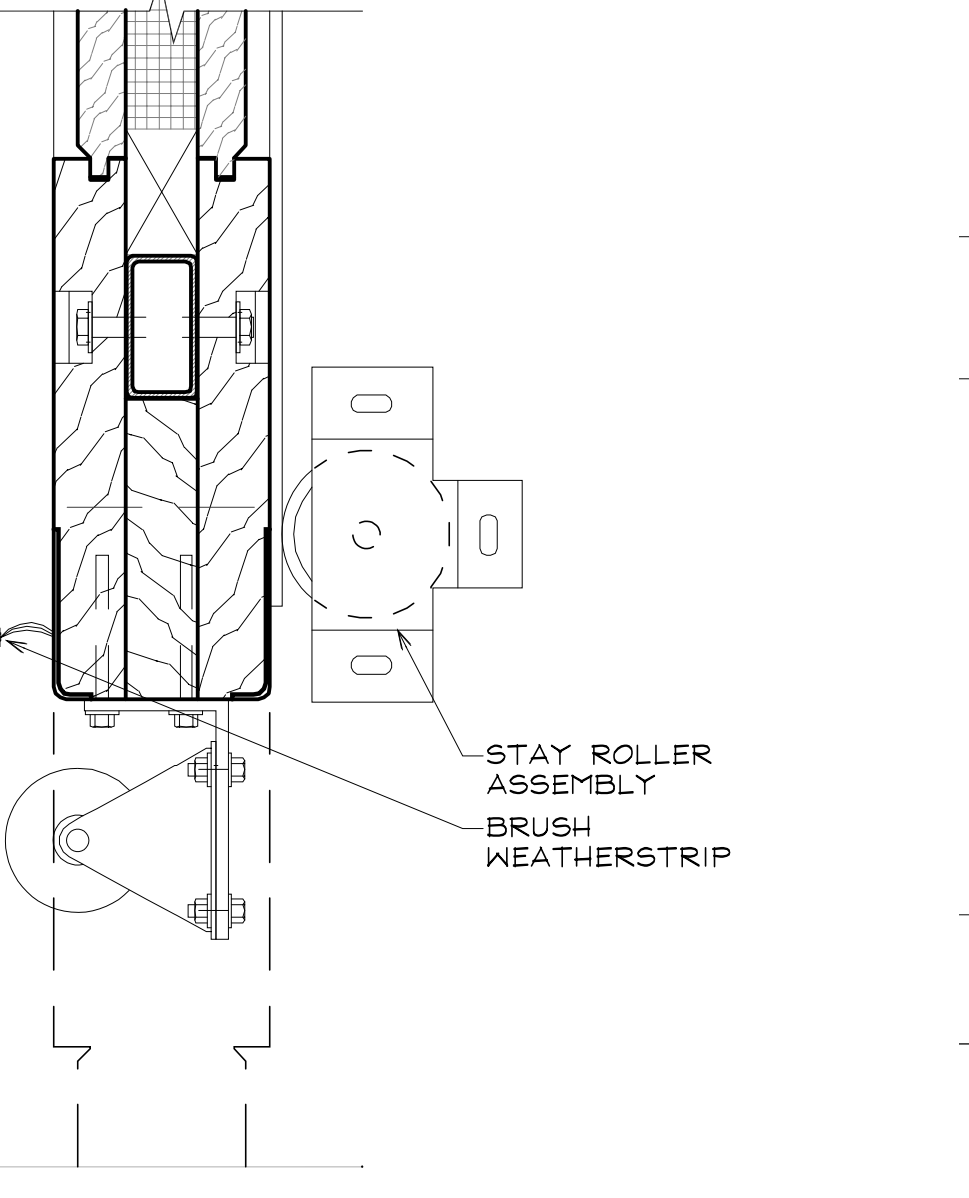
5 SLIDING BARN DOOR PLAN SECTION. SCALE: 3" = 1'-0"



6 SLIDING BARN DOOR SECTION DETAIL. SCALE: 3" = 1'-0"



5 SLIDING BARN DOOR PLAN SECTION. SCALE: 3" = 1'-0"



6 SLIDING BARN DOOR SECTION DETAIL. SCALE: 3" = 1'-0"

REVISIONS BY:

WINDOW DOOR SCHEDULES

MOOSE MOUNTAIN VINEYARDS

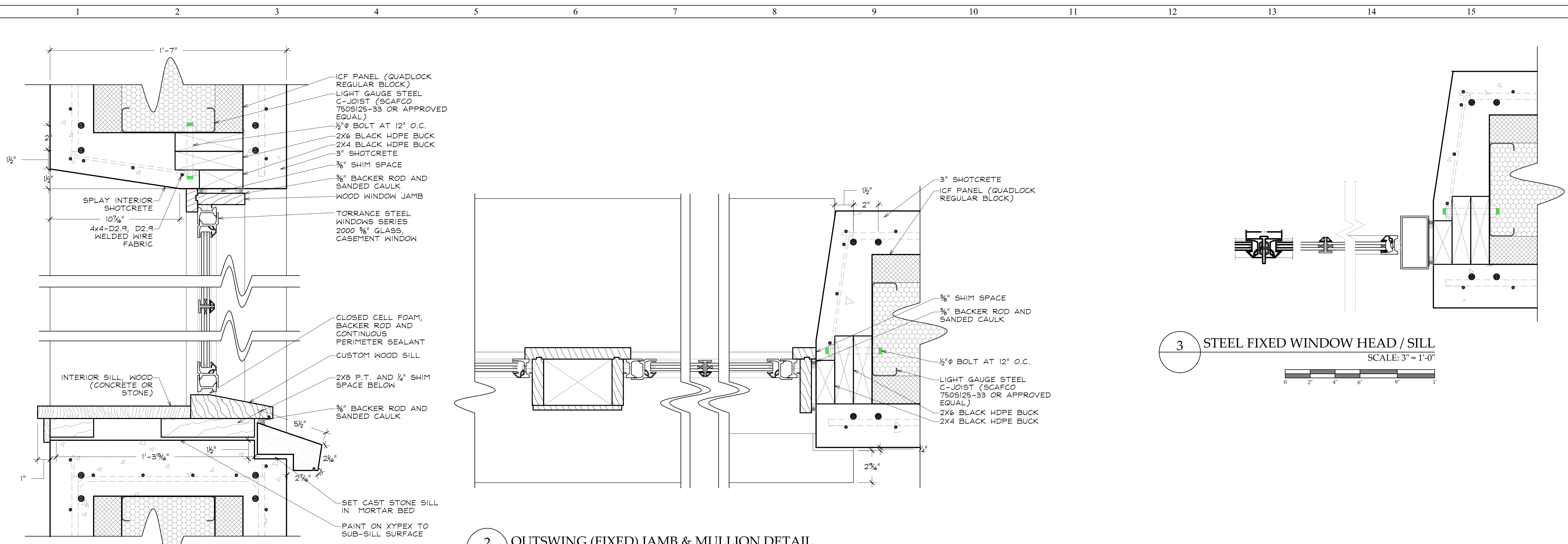


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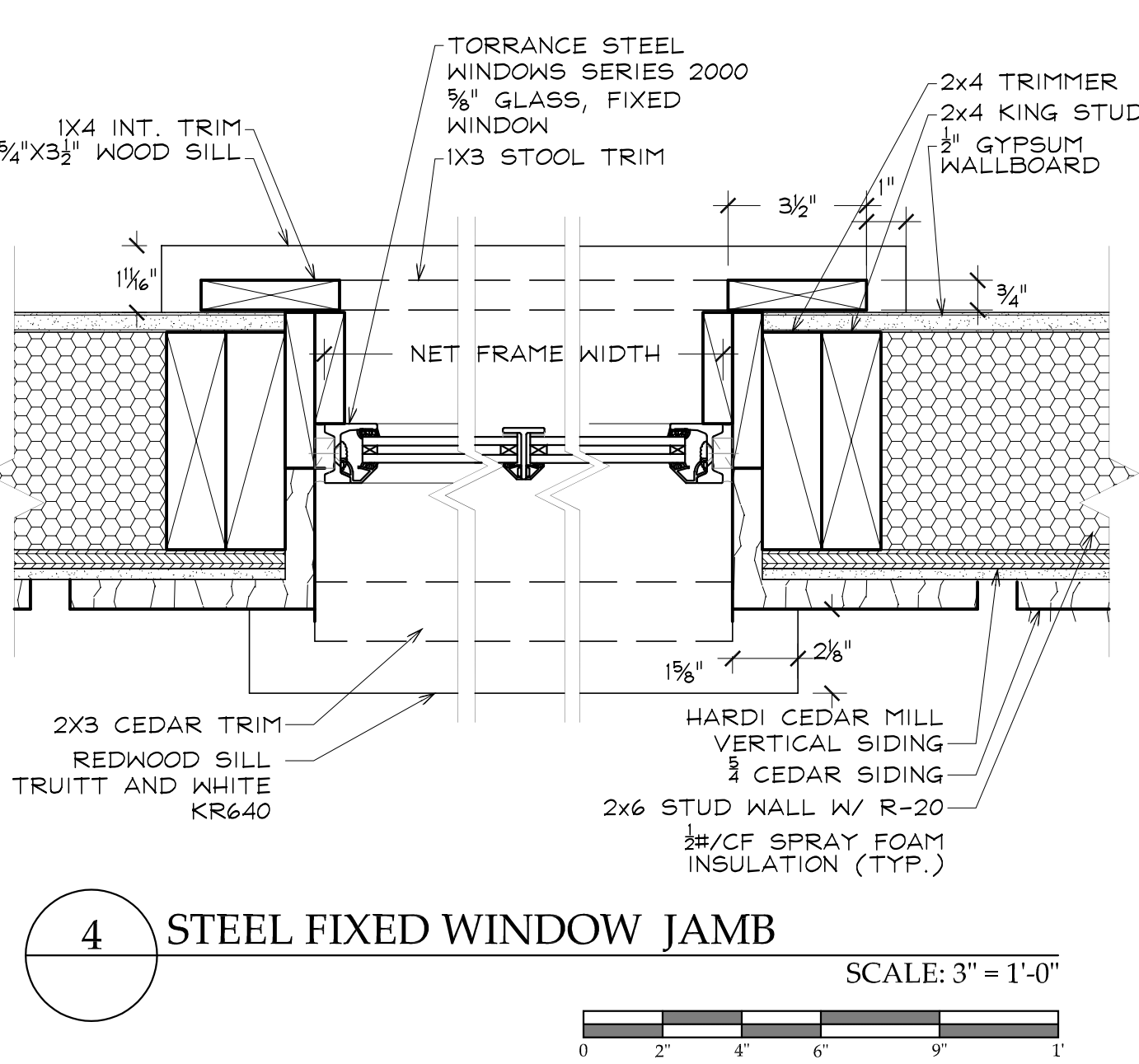
SHEET: A 7.2



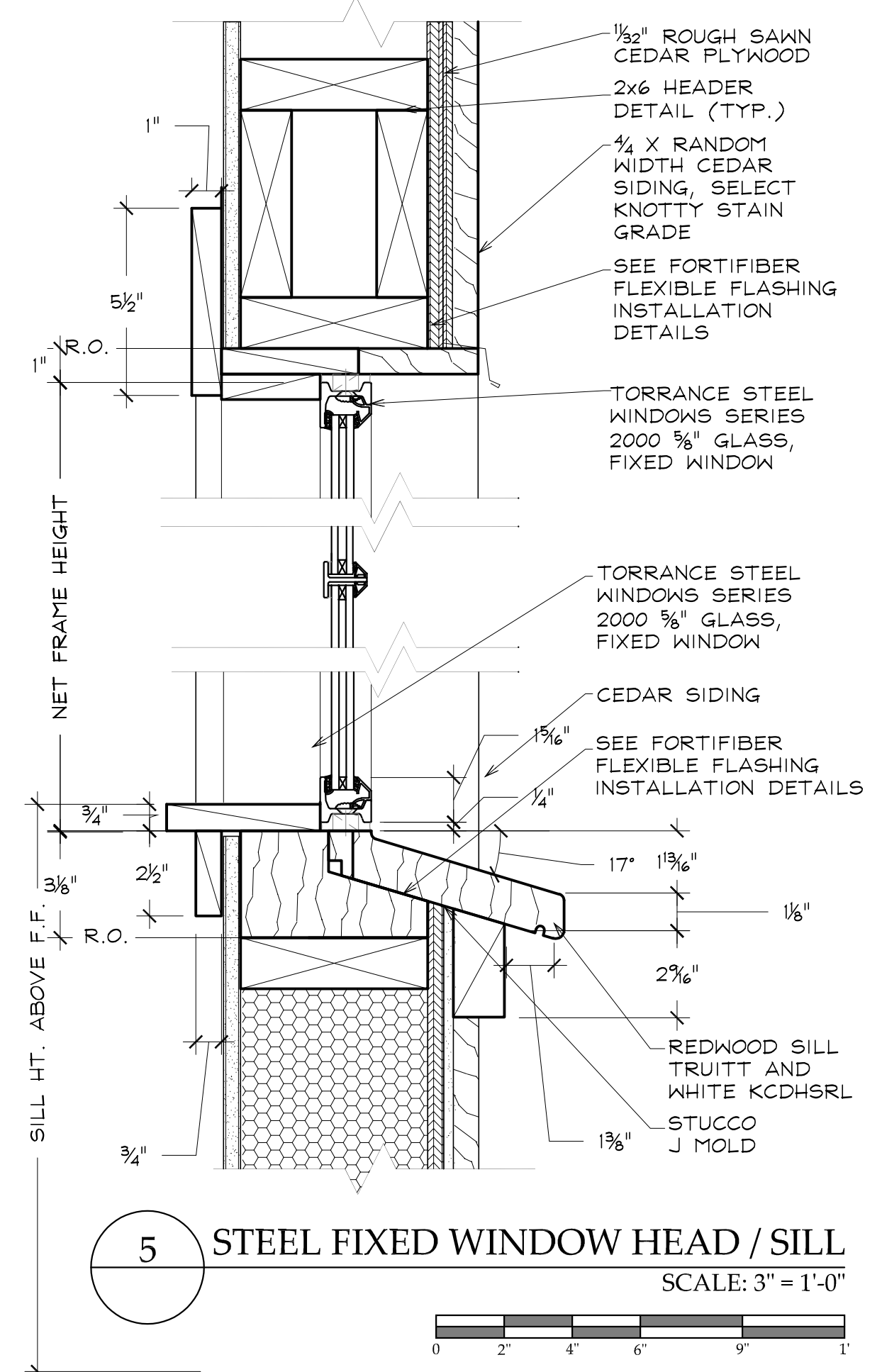
1 STEEL CASEMENT WINDOW HEAD / SILL
SCALE: 3" = 1'-0"

2 OUTSWING (FIXED) JAMB & MULLION DETAIL
SCALE: 3" = 1'-0"

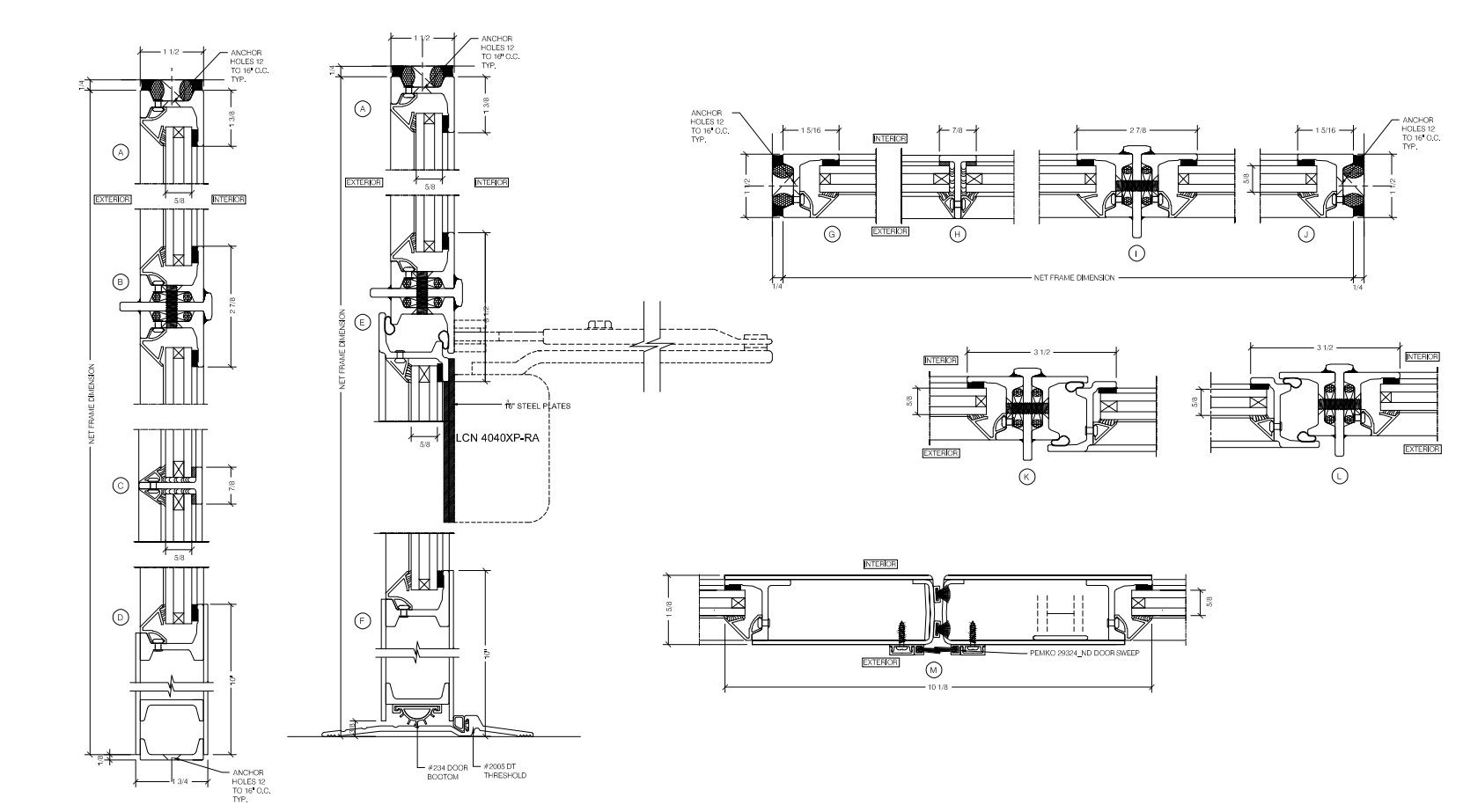
3 STEEL FIXED WINDOW HEAD / SILL
SCALE: 3" = 1'-0"



4 STEEL FIXED WINDOW JAMB
SCALE: 3" = 1'-0"



5 STEEL FIXED WINDOW HEAD / SILL
SCALE: 3" = 1'-0"



6 STEEL DOORS AND SIDE LIGHTS DETAILS
SCALE: 3" = 1'-0"

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WINDOW AND DOOR DETAILS

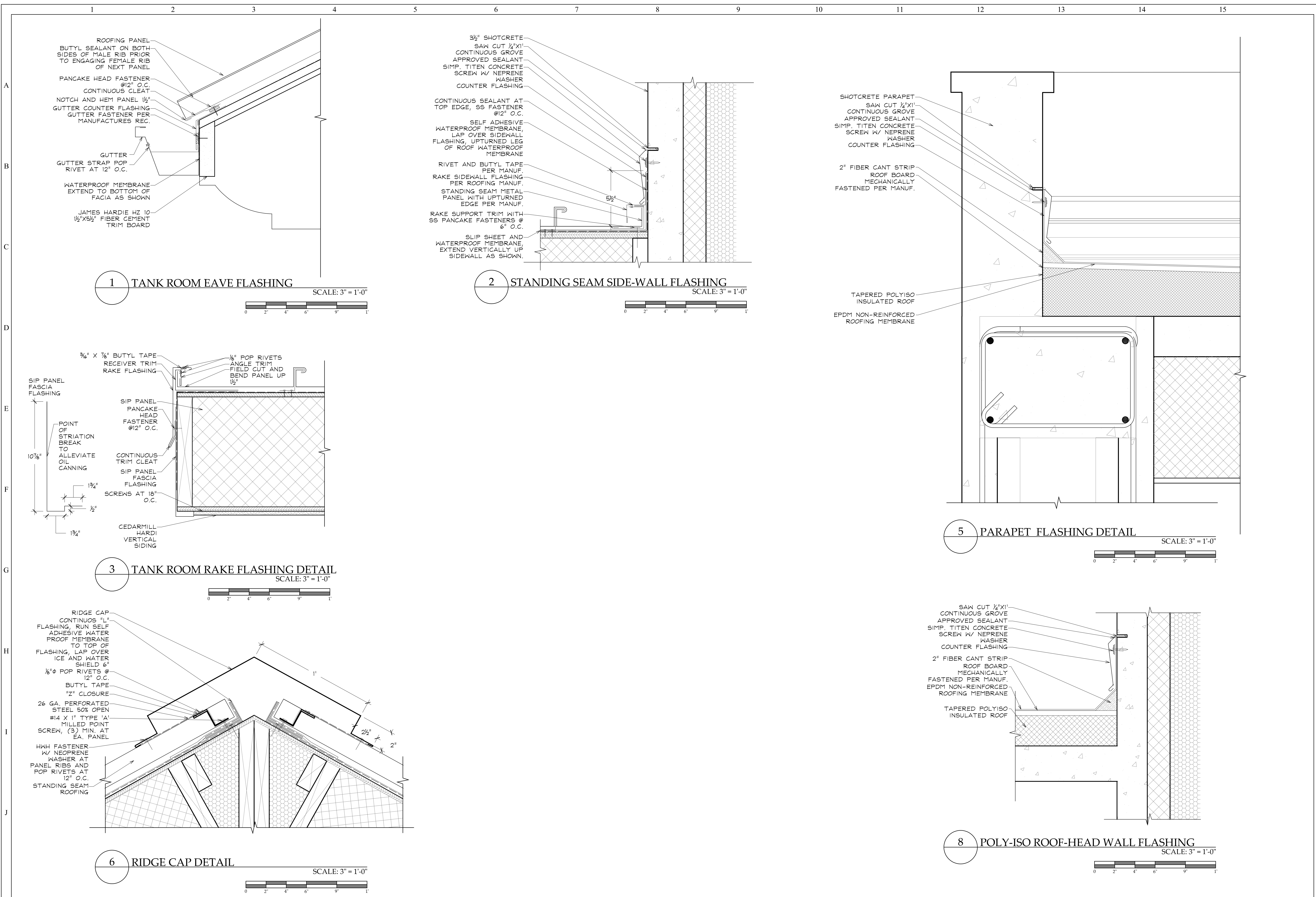
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FLASHING DETAILS

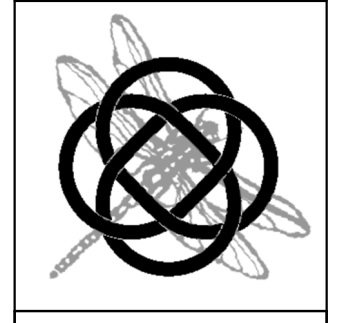
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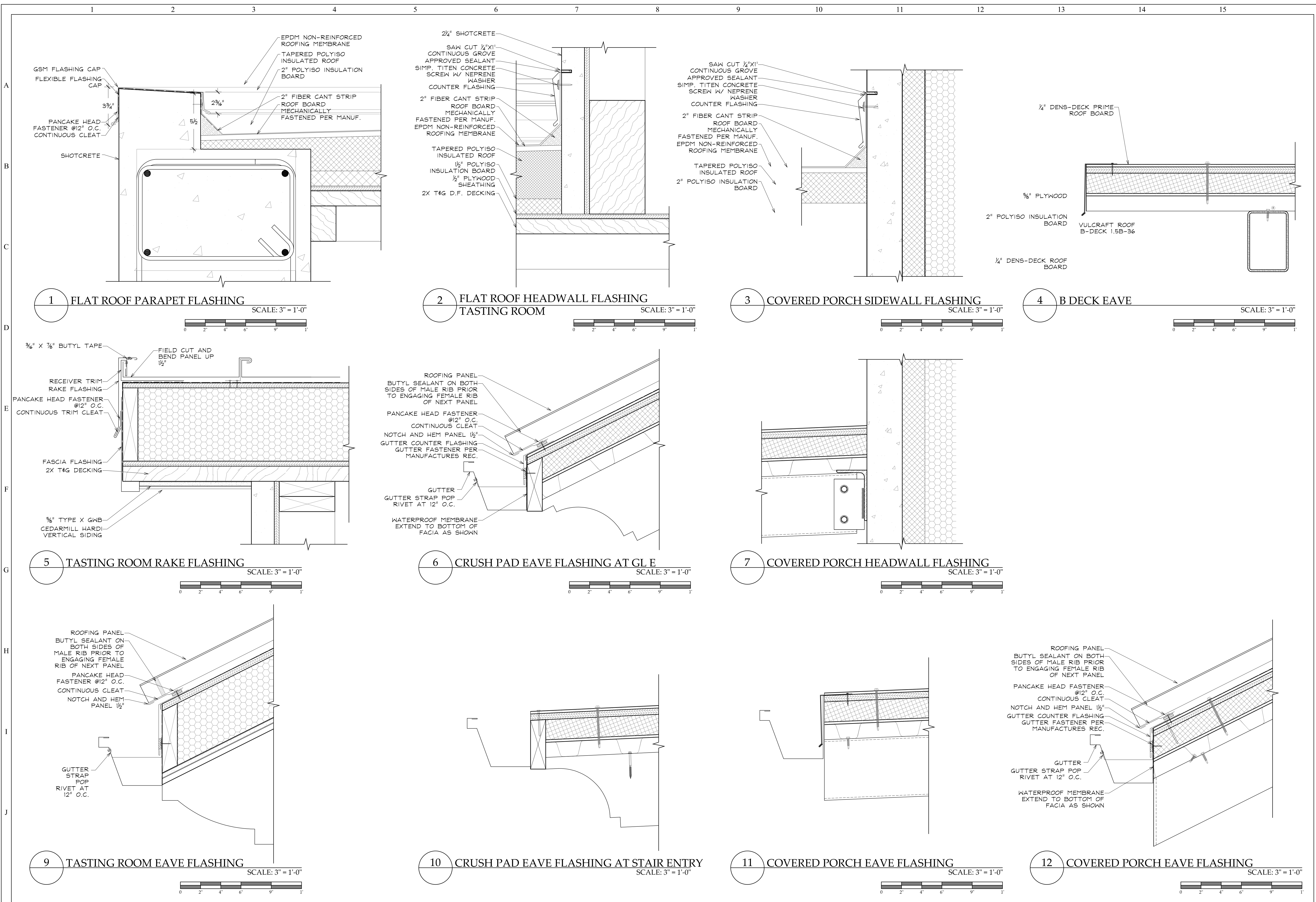
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SHEET:

A 8.0



REVISIONS BY:

FLASHING DETAILS

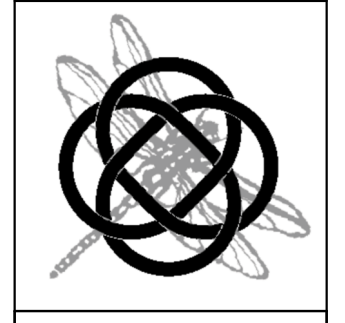
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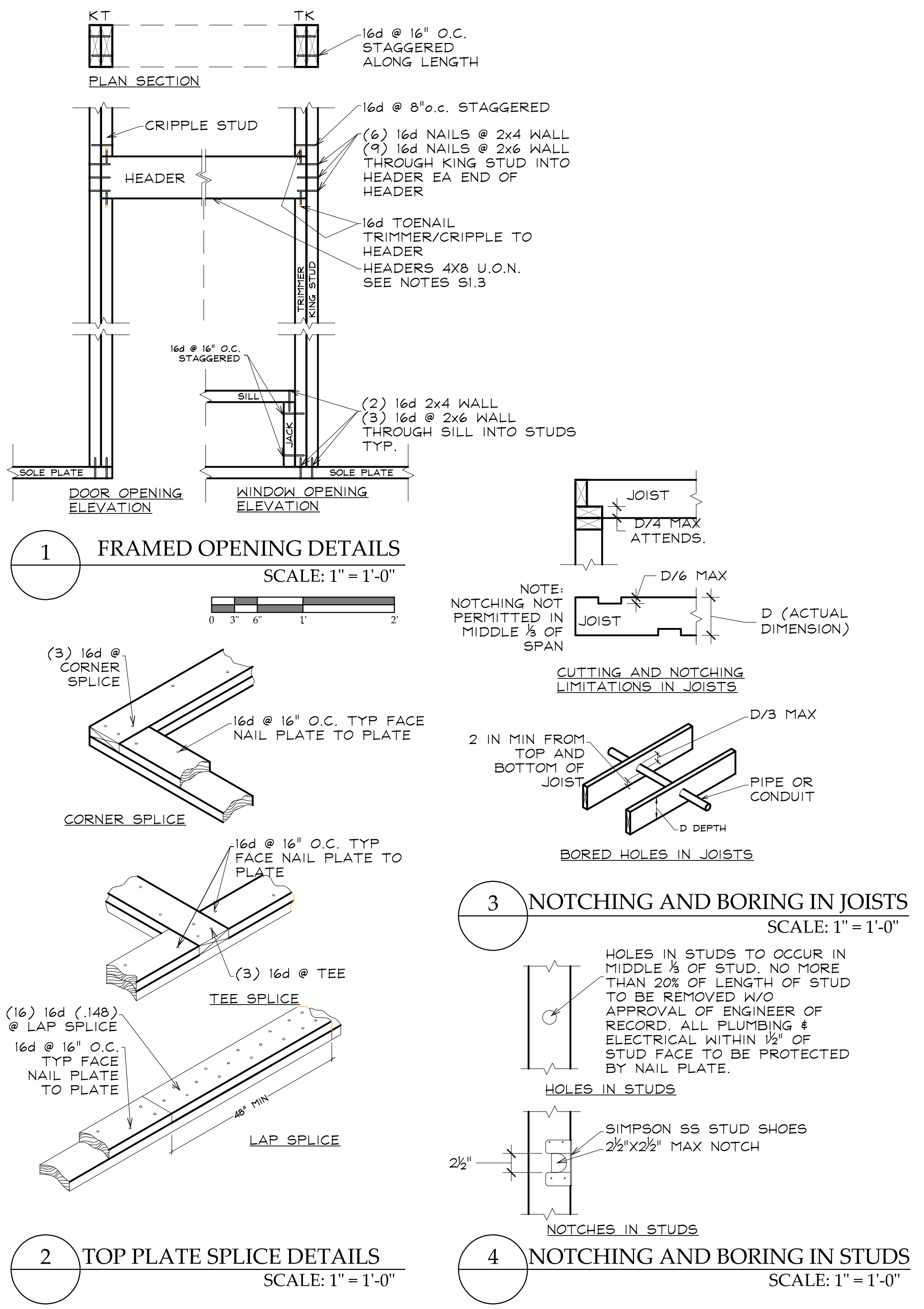
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TABLE 2304.9.1 - FASTENING SCHEDULE

CONNECTION	NAILING ^a
1. JOIST TO SILL OR GIRDER, TOENAIL	3-8d
2. BRIDGING TO JOIST, TOENAIL EACH END	2-8d
3. 1"x6" SUBFLOOR TO EA. JOIST, FACE NAIL	2-8d
4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL	3-8d
5. 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2-16d
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL	16d @ 16" o.c.
SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS	3-16d PER 16"
7. TOP PLATE TO STUD, END NAIL	2-16d
8. STUD TO SOLE PLATE	4-8d, TOENAIL OR 2-16d, END NAIL
9. DOUBLE STUDS, FACE NAIL	16d @ 24" o.c.
10. DOUBLED TOP PLATES, TYPICAL FACE NAIL	16d @ 16" o.c.
DOUBLED TOP PLATES, LAP SPLICE	8-16d
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3-8d
12. RIM JOIST TO TOP PLATE, TOENAIL	8d @ 6" o.c.
13. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
14. CONTINUOUS HEADER, TWO PEICES	16d @ 16" o.c.
15. CEILING JOISTS TO PLATE, TOENAIL	3-8d
16. CONTINUOUS HEADER TO STUD, TOENAIL	4-8d
17. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d
18. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3-8d
19. RAFTER TO PLATE, TOENAIL	3-8d
20. 1" BRACE TO EACH STUD AND PLATE, FACE NAIL	2-8d
21. 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	2-8d
22. WIDER THAN 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	3-8d
23. BUILT-UP CORNER STUDS	16d @ 24" o.c.
24. BUILT-UP GIRDER AND BEAMS	20d @ 32" o.c. AT TOP AND BOT & STAGGERED 2-20d @ ENDS AND @ EACH SPLICE
25. 2" PLANKS	2-16d AT EACH BEARING
26. COLLAR TIE TO RAFTER, FACE NAIL	3-10d COMMON
27. JACK RAFTER TO HIP	3-10d OR 2-16d COMMON TOENAIL
28. ROOF RAFTER TO 2-BY RIDGE BEAM	2-16d COMMON TOENAIL OR FACENAIL
29. JOIST TO BAND JOIST	3-16d FACE NAIL
30. LEDGER STRIP	3-16d FACE NAIL AT EA. JOIST
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD: ^b SUBFLOOR AND WALL SHEATHING (TO FRAMING):	
1/2" AND LESS	6d ^c
3/8" - 1/2"	8d ^d OR 6d ^e
1/2" - 1"	8d ^f
1/2" - 1 1/4"	10d ^g OR 8d ^e
COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING)	
3/4"	6d ^f
1/2" - 1"	8d ^e
1/2" - 1 1/4"	10d ^g OR 8d ^e
32. PANEL SIDING (TO FRAMING) ^b	
1/2" OR LESS	6d ^f
3/8"	8d ^f
33. FIBERBOARD SHEATHING: ^a	
1/2"	No. 11 ga. ^h
	6d ^d
	No. 16 ga. ⁱ
	No. 11 ga. ^h
	8d ^d
	No. 16 ga. ⁱ
34. INTERIOR PANELING	
1/4"	4d ^j
3/8"	6d ^k

- a. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
- b. NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTIONS 2315.3.3 AND 2315.4. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.
- c. COMMON OR DEFORMED SHANK.
- d. COMMON.
- e. DEFORMED SHANK.
- f. CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.
- g. FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS.
- h. CORROSION-RESISTANT ROOFING NAILS WITH 7/16-INCH-DIAMETER HEAD AND 1 1/2-INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 3/4-INCH LENGTH FOR 25/32-INCH SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.
- i. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16-INCH CROWN AND 1 1/8-INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 1/2-INCH LENGTH FOR 25/32-INCH SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.
- j. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED). CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
- k. PANEL SUPPORTS AT 24 INCHES. CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
- l. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2 1/2"x11 3/4") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
- m. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 3/8 INCH.
- n. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" O.C. AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.
- o. FASTENERS SPACED 4" O.C. AT EDGES, 8" AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" O.C. AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
- p. FASTENERS SPACED 4" O.C. AT EDGES, 8" O.C. AT INTERMEDIATE SUPPORTS.



WOOD TO CONCRETE ANCHORAGE:
CBC 2019 SECTION 1901.3, 2308.3 & NDS 2018 SECTION 11

BOLT D	CONCRETE EDGE DISTANCE (Cap)	CONCRETE LOADED EDGE (Emb)	EMBEDMENT (Emb)	SPACING (Cap)	WOOD EDGE DISTANCE (Cap)	WOOD END DISTANCE (Emb)
1/2"	16"	20"	26"	3"	16"	16"
3/8"	16"	20"	26"	3"	16"	16"
1/2"	16"	20"	26"	3"	16"	16"
3/8"	16"	20"	26"	3"	16"	16"
1/2"	16"	20"	26"	3"	16"	16"
3/8"	16"	20"	26"	3"	16"	16"
1/2"	16"	20"	26"	3"	16"	16"
3/8"	16"	20"	26"	3"	16"	16"

* NOTE -- IF A.B. IS WITHIN MIN LOADED EDGE DISTANCE THEN IT MUST BE LOCATED WITHIN REINFORCEMENT CAPABLE OF RESISTING LOAD. CONSULT ENGINEER OF RECORD. A.B. SHALL NOT BE LOCATED LESS THAN 4db FROM THE EDGE OF CONCRETE.
** NOTE -- AN ADDNL 2" SHALL BE PROVIDED FOR BOLTS LOCATED IN TOP OF COLUMNS IN SEISMIC ZONES C, D, E & F
*** NOTE -- A.B. SHALL BE NO FURTHER THAN 12" FROM END OF WOOD MEMBER

SPECIAL INSPECTION & TESTING NOTES:

- NOTES ON THIS SHEET ARE APPLICABLE TO SCOPE OF WORK FOR THE FOUNDATIONS ENERGY MASS WALLS, CONCRETE BOND BEAMS, FRAMING AND STEEL ROOF W/ INSULATED METAL PANELS ONLY.
- CONTRACTOR IS RESPONSIBLE FOR PROPER NOTIFICATION TO THE INSPECTION OR TESTING AGENCY FOR ITEMS LISTED.
- ONLY THE TESTING LABORATORY SHOULD TAKE SAMPLES AND TRANSPORT THEM TO THEIR LABORATORY.
- COPIES OF ALL LABORATORY REPORTS AND INSPECTIONS ARE TO BE SENT DIRECTLY TO THE BUILDING DIVISION BY THE TESTING AGENCY ON A WEEKLY BASIS.
- INSPECTION AGENCY TO SUBMIT NAMES AND QUALIFICATIONS OF ON-SITE SPECIAL INSPECTORS TO THE PLANNING AND BUILDING DEPARTMENT FOR APPROVAL. SUBMISSION OF QUALIFICATIONS IS NOT REQUIRED WHEN THE AGENCY UTILIZES THE INSPECTOR(S) WHO IS PRE-APPROVED BY THE COUNTY OF SAN JOAQUIN.
- THE AGENCY MUST PROVIDE EACH SPECIAL INSPECTOR WITH AN IDENTIFICATION BADGE THAT INDICATES THE FOLLOWING:
 - NAME OF INSPECTOR
 - PHOTO OF INSPECTOR
 - THE SPECIFIC AREAS IN WHICH THE INSPECTOR IS QUALIFIED TO INSPECT
 - AN AUTHORIZATION SIGNATURE BY THE REGISTERED ENGINEER WHO IS A FULL-TIME EMPLOYEE OF THE AGENCY
 - THE SPECIAL INSPECTOR SHALL DISPLAY HIS/HER BADGE WHENEVER PERFORMING THE FUNCTION OF AN INSPECTOR
 - THE SPECIAL INSPECTOR IS RESPONSIBLE TO THE CHIEF BUILDING OFFICIAL FOR IMMEDIATE NOTIFICATION OF ANY CONCERNS AND/OR PROBLEMS ENCOUNTERED.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANNING AND BUILDING DEPARTMENT APPROVED PLANS FOR ADDITIONAL INSPECTION OR TESTING REQUIREMENTS THAT MAY BE NOTED. A PRE- CONSTRUCTION CONFERENCE AT THE JOB SITE IS RECOMMENDED TO REVIEW SPECIAL INSPECTION PROCEDURES.
 - THE SPECIAL INSPECTOR SHALL USE PLANNING AND BUILDING DEPARTMENT APPROVED DRAWINGS.
 - BEFORE OCCUPANCY PERMIT CAN BE ISSUED: THE INSPECTION AGENCY SHALL SUBMIT A STATEMENT THAT ALL ITEMS REQUIRING TESTING AND INSPECTION WERE FULFILLED AND REPORTED. THOSE ITEMS NOT TESTED AND/OR INSPECTED SHALL BE NOTED IN THIS STATEMENT. A COPY OF THE STATEMENT TO BE MAINTAINED AT THE JOB SITE FOR BUILDING INSPECTORS REVIEW PRIOR TO FINAL INSPECTIONS.
 - CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PER SECTION 1706.1.

SPECIAL INSPECTION & TESTING SCHEDULE:

- REINFORCING STEEL
 - TENSILE AND BEND, ONE SET PER HEAT PER TWO TONS (ONLY IF NOT PROPERLY IDENTIFIED WITH MILL CERTIFICATE.(PERIODIC)
 - INSPECTION OF PLACEMENT. (PERIODIC)
- CONCRETE AND SHOTCRETE
 - SUITABILITY OF AGGREGATE (PERIODIC)
 - MIX DESIGNS (PERIODIC)
 - TEST PANEL (SHOTCRETE)
 - INSPECTION PLACING (PERIODIC)
 - COMPRESSION TESTS (PERIODIC)
 - CAST SPECIMENS (CORE SAMPLES FOR SHOTCRETE)
 - PICK UP SAMPLES (PERIODIC)
 - AIR CHECK (CONTINUOUS)
 - INSPECTION OF REINFORCING PLACEMENT (PERIODIC)
 - "XYPEX" TECHNICIAN TO APPROVE BATCH PLANT COMPANY AND VERIFY A HOMOGENOUS MIXTURE OF THE XYPEX ADMIXTURE WITH SHOTCRETE MIX
- STRUCTURAL STEEL
 - SHOP IDENTIFICATION AND WELDING INSPECTION
 - SHOP ULTRASONIC INSPECTION (FULL PEN. WELDS ONLY)
 - FIELD WELDING INSPECTION
 - FIELD BOLTING INSPECTION
 - FIELD ULTRASONIC INSPECTION (FULL PEN. WELDS ONLY)
 - HIGH STRENGTH BOLT INSTALLATION (ASTM A325)
- SOILS
 - PROVIDE OBSERVATION OF THE CONTRACTOR'S PROCEDURES AND THE EXPOSED SOIL CONDITIONS, AND FIELD AND LABORATORY TESTING, INCLUDING DENSITY TESTING DURING SITE PREPARATION, MASS GRADING, BUILDING PAD PREPARATION, PLACEMENT AND COMPACTION OF FILL, UNDER GROUND UTILITY BACKFILLING, FOUNDATION CONSTRUCTION, AND PAVEMENT AREA CONSTRICTION
 - NOTIFY SOIL ENGINEER AT LEAST 48 HOURS PRIOR TO ANY GRADING OPERATIONS

SPECIFICATIONS FOR SIMPSON EPOXY

SIMPSON EPOXY ET ADHESIVE SYSTEM
APPLICATION: SURFACES TO RECEIVE EPOXY MUST BE CLEAN. FOR INSTALLATIONS IN OR THROUGH STANDING WATER, SEE ADHESIVE ANCHORS APPLICATION GUIDE LINES FOR DETAILS.
THE BASE MATERIAL TEMPERATURE MUST BE 40° F OR ABOVE AT THE TIME OF INSTALLATION. FOR BEST RESULTS, MATERIAL SHOULD BE 70° F - 80° F AT THE TIME OF APPLICATION.
CARTRIDGES SHOULD NOT BE IMMERSED IN WATER TO FACILITATE WARMING. TO WARM COLD MATERIAL, THE CARTRIDGES SHOULD BE STORED IN A WARM, UNIFORMLY HEATED AREA OR STORAGE CONTAINER FOR A SUFFICIENT TIME TO ALLOW EPOXY TO WARM COMPLETELY.
MIXED MATERIAL IN NOZZLE CAN HARDEN IN 5-7 MINUTES AT A TEMPERATURE OF 40° F OR ABOVE.
SPECIFICATION: ANCHORING ADHESIVE SHALL BE A TWO-COMPONENT 100% SOLIDS EPOXY BASED SYSTEM SUPPLIED IN MANUFACTURER'S STANDARD SIDE-BY-SIDE CARTRIDGE AND DISPENSED THROUGH A STATIC-MIXING NOZZLE SUPPLIED BY THE MANUFACTURER.
EPOXY SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM C-881 SPECIFICATION FOR TYPE I, II, IV, AND V, GRADE 3, CLASS B AND C AND MUST DEVELOP A MINIMUM 13,300 PSI COMPRESSIVE YIELD STRENGTH AFTER 7 DAY CURE. EPOXY MUST HAVE A HEAT DEFLECTION TEMPERATURE OF A MINIMUM 168°F (76°C).
ADHESIVE SHALL BE EPOXY-TIE ET FROM SIMPSON STRONG-TIE, DUBLIN, CA. ANCHORS SHALL BE INSTALLED PER SIMPSON STRONG-TIE'S INSTRUCTIONS FOR EPOXY-TIE ET.
ANCHORING ADHESIVE SHALL BE A TWO COMPONENT 100% SOLIDS EPOXY BASED SYSTEM SUPPLIED IN MANUFACTURER'S STANDARD CARTRIDGE AND DISPENSED THROUGH A STATIC-MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. EPOXY SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM C-881 SPECIFICATION FOR TYPE I, II, IV, AND V, GRADE 3, CLASS B AND C AND MUST DEVELOP A MINIMUM 12,650 PSI COMPRESSIVE YIELD STRENGTH AFTER 7 DAY CURE. EPOXY MUST HAVE A HEAT DEFLECTION TEMPERATURE OF A MINIMUM 136°F (58°C). ADHESIVE SHALL BE EPOXY-TIE SET FROM SIMPSON STRONG-TIE, PLEASANTON, CA. ANCHORS SHALL BE INSTALLED PER SIMPSON STRONG-TIE'S INSTRUCTIONS FOR EPOXY-TIE SET.

REVISIONS BY:

FRAMING NOTES, SPECIAL INSPECTIONS

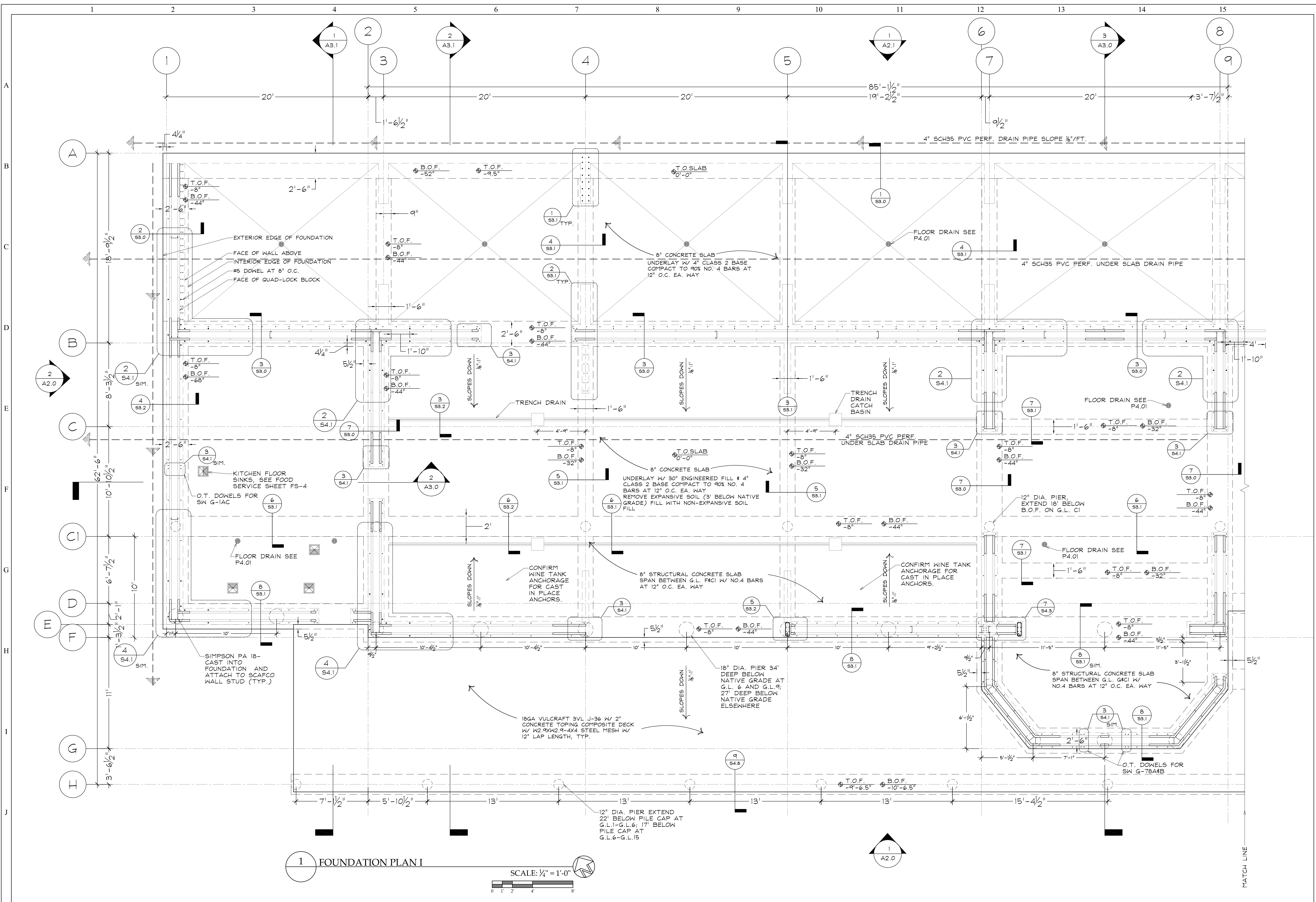
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APN: 825-29-029

INTEGRATED STRUCTURES, INC.
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REGISTERED PROFESSIONAL ENGINEER
GARY BLANK
CIVIL
STATE OF CALIFORNIA
EXP. 04/30/25

DATE: 12/15/2023
DRAWN: ----
JOB: 15614 MMV
SHEET:
S 0.0



1 FOUNDATION PLAN I
 SCALE: 1/4" = 1'-0"
 0 1' 2' 4' 8'

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FOUNDATION PLAN I

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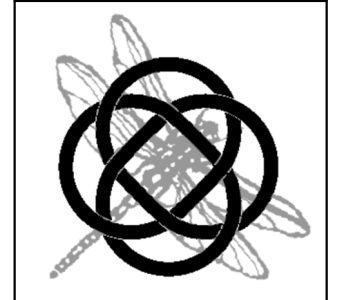
MOOSE MOUNTAIN VINEYARDS

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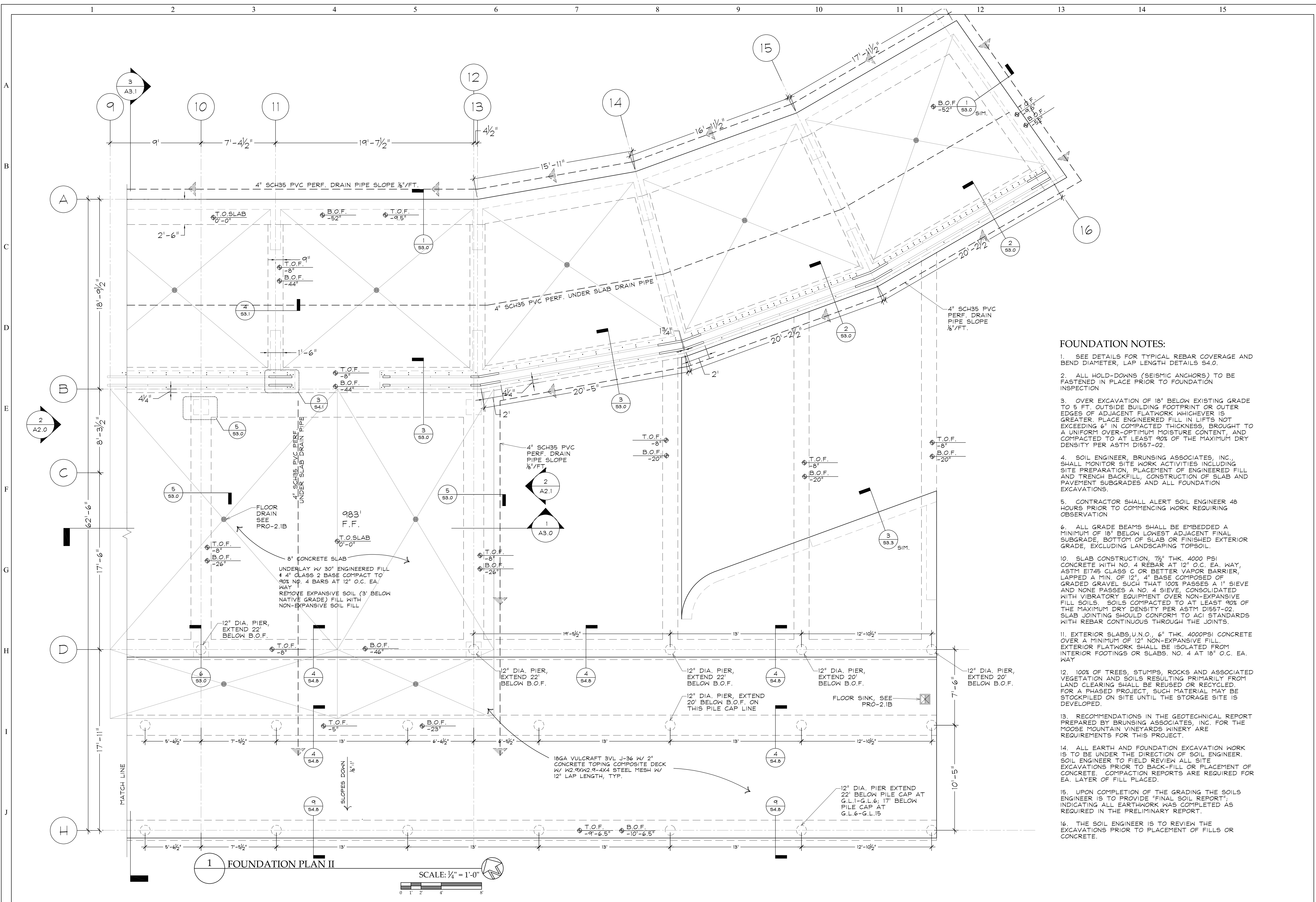


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SHEET:
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- FOUNDATION NOTES:**
- SEE DETAILS FOR TYPICAL REBAR COVERAGE AND BEND DIAMETER, LAP LENGTH DETAILS S4.0.
 - ALL HOLD-DOWNS (SEISMIC ANCHORS) TO BE FASTENED IN PLACE PRIOR TO FOUNDATION INSPECTION
 - OVER EXCAVATION OF 18" BELOW EXISTING GRADE TO 5 FT. OUTSIDE BUILDING FOOTPRINT OR OUTER EDGES OF ADJACENT FLATWORK WHICHEVER IS GREATER. PLACE ENGINEERED FILL IN LIFTS NOT EXCEEDING 6" IN COMPACTED THICKNESS, BROUGHT TO A UNIFORM OVER-OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY PER ASTM D1557-02.
 - SOIL ENGINEER, BRUNSON ASSOCIATES, INC., SHALL MONITOR SITE WORK ACTIVITIES INCLUDING SITE PREPARATION, PLACEMENT OF ENGINEERED FILL AND TRENCH BACKFILL, CONSTRUCTION OF SLAB AND PAVEMENT SUBGRADES AND ALL FOUNDATION EXCAVATIONS.
 - CONTRACTOR SHALL ALERT SOIL ENGINEER 48 HOURS PRIOR TO COMMENCING WORK REQUIRING OBSERVATION
 - ALL GRADE BEAMS SHALL BE EMBEDDED A MINIMUM OF 18" BELOW LOWEST ADJACENT FINAL SUBGRADE, BOTTOM OF SLAB OR FINISHED EXTERIOR GRADE, EXCLUDING LANDSCAPING TOPSOIL.
 - SLAB CONSTRUCTION 7 1/2" THK. 4000 PSI CONCRETE WITH NO. 4 REBAR AT 12" O.C. WAY, ASTM E1745 CLASS C OR BETTER VAPOR BARRIER, LAPPED A MIN. OF 12", 4" BASE COMPOSED OF GRADED GRAVEL SUCH THAT 100% PASSES A 1" SIEVE AND NONE PASSES A NO. 4 SIEVE. CONSOLIDATED WITH VIBRATORY EQUIPMENT OVER NON-EXPANSIVE FILL SOILS. SOILS COMPACTED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY PER ASTM D1557-02. SLAB JOINTING SHOULD CONFORM TO ACI STANDARDS WITH REBAR CONTINUOUS THROUGH THE JOINTS.
 - EXTERIOR SLABS, U.O.C., 6" THK. 4000PSI CONCRETE OVER A MINIMUM OF 12" NON-EXPANSIVE FILL. EXTERIOR FLATWORK SHALL BE ISOLATED FROM INTERIOR FOOTINGS OR SLABS. NO. 4 AT 18" O.C. EA. WAY
 - 100% OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED.
 - RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY BRUNSON ASSOCIATES, INC. FOR THE MOOSE MOUNTAIN VINEYARDS WINERY ARE REQUIREMENTS FOR THIS PROJECT.
 - ALL EARTH AND FOUNDATION EXCAVATION WORK IS TO BE UNDER THE DIRECTION OF SOIL ENGINEER. SOIL ENGINEER TO FIELD REVIEW ALL SITE EXCAVATIONS PRIOR TO BACK-FILL OR PLACEMENT OF CONCRETE. COMPACTION REPORTS ARE REQUIRED FOR EA. LAYER OF FILL PLACED.
 - UPON COMPLETION OF THE GRADING THE SOILS ENGINEER IS TO PROVIDE "FINAL SOIL REPORT", INDICATING ALL EARTHWORK WAS COMPLETED AS REQUIRED IN THE PRELIMINARY REPORT.
 - THE SOIL ENGINEER IS TO REVIEW THE EXCAVATIONS PRIOR TO PLACEMENT OF FILLS OR CONCRETE.

REVISIONS BY:

FOUNDATION PLAN II

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MOOSE MOUNTAIN VINEYARDS

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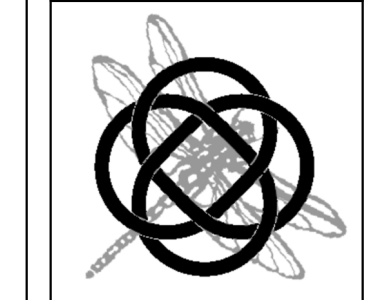
FRAMING PLAN

MOOSE MOUNTAIN VINEYARDS

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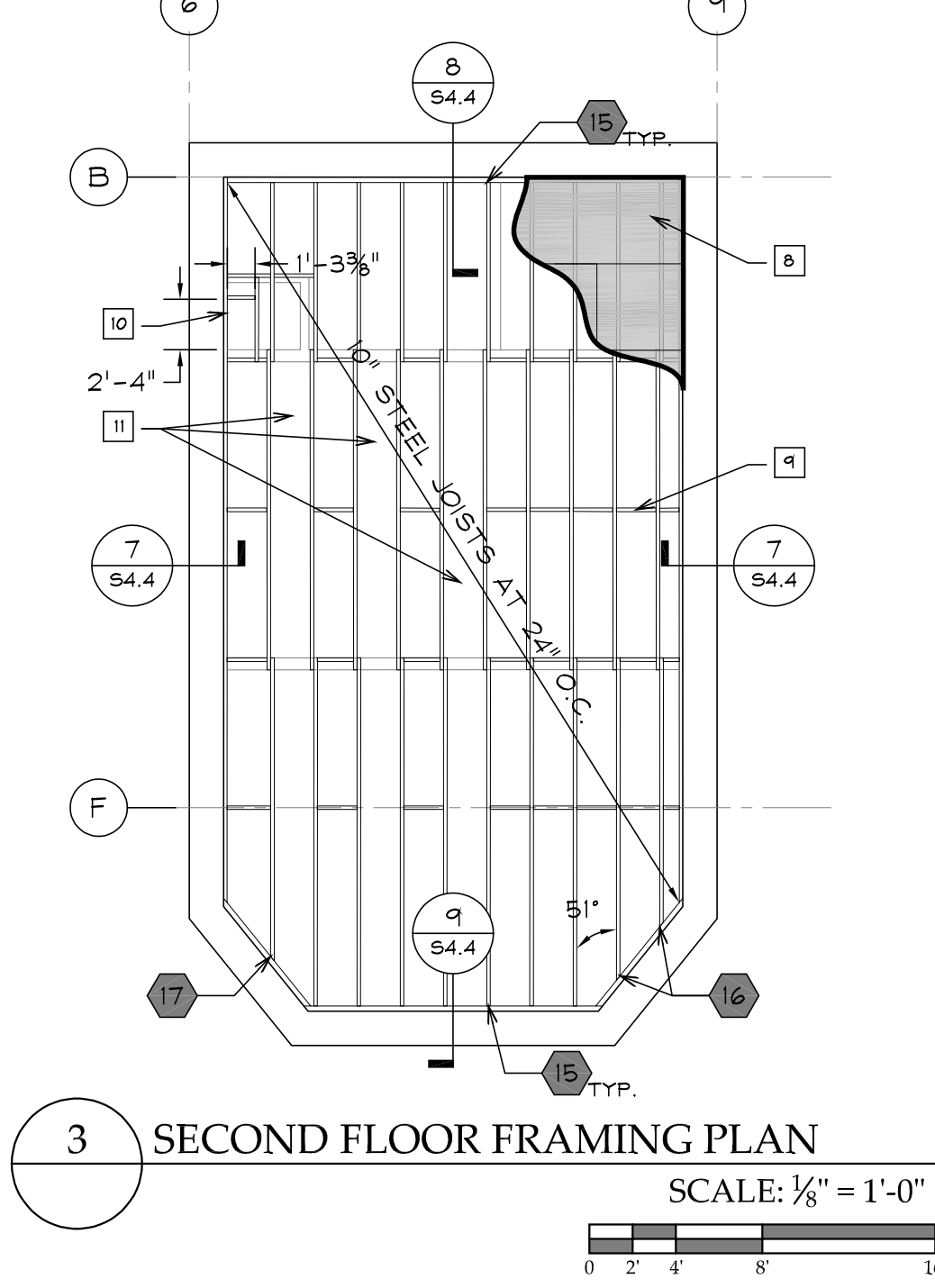
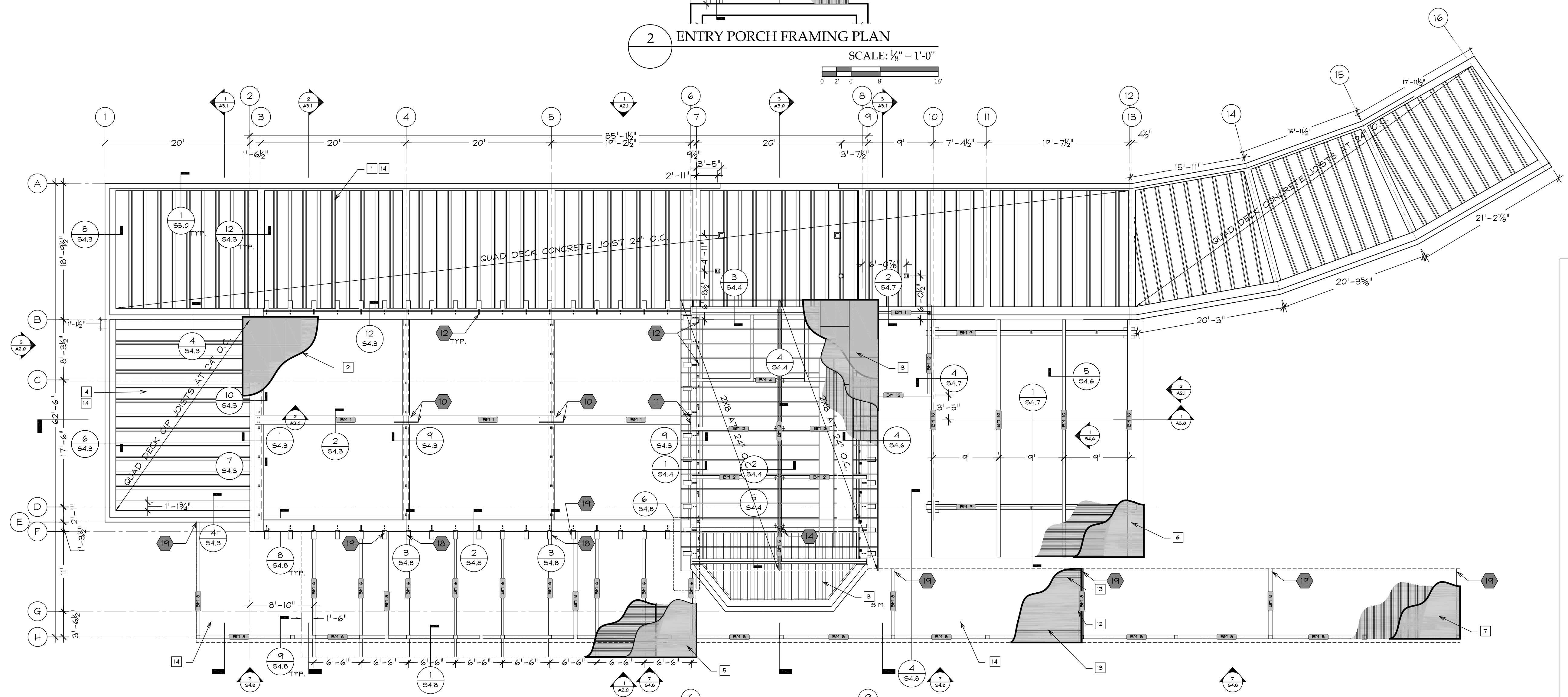
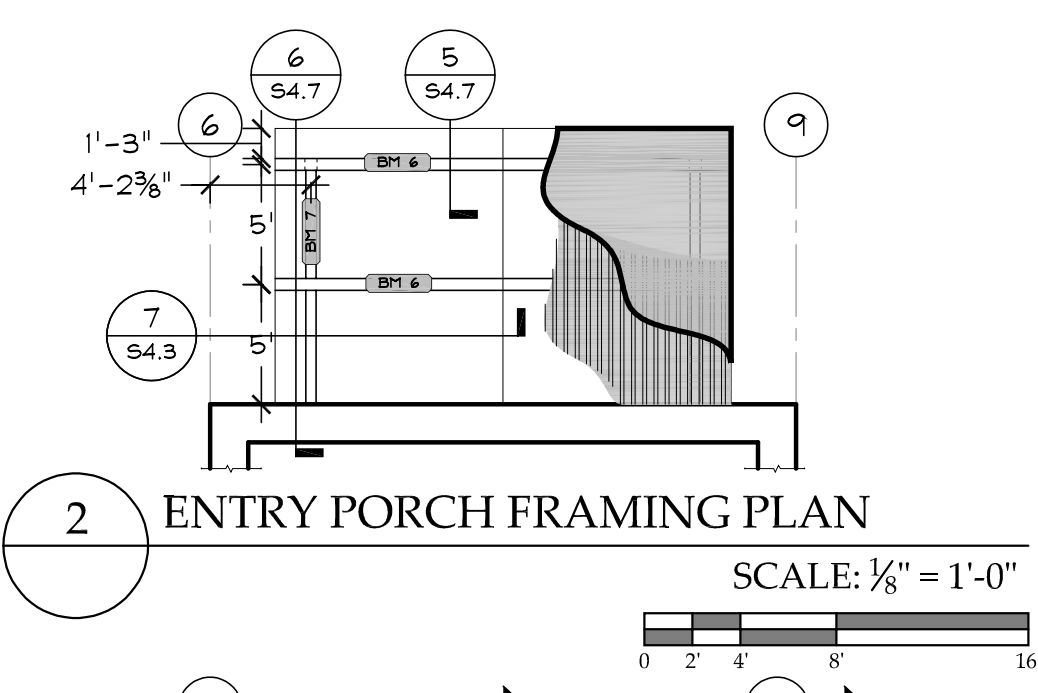
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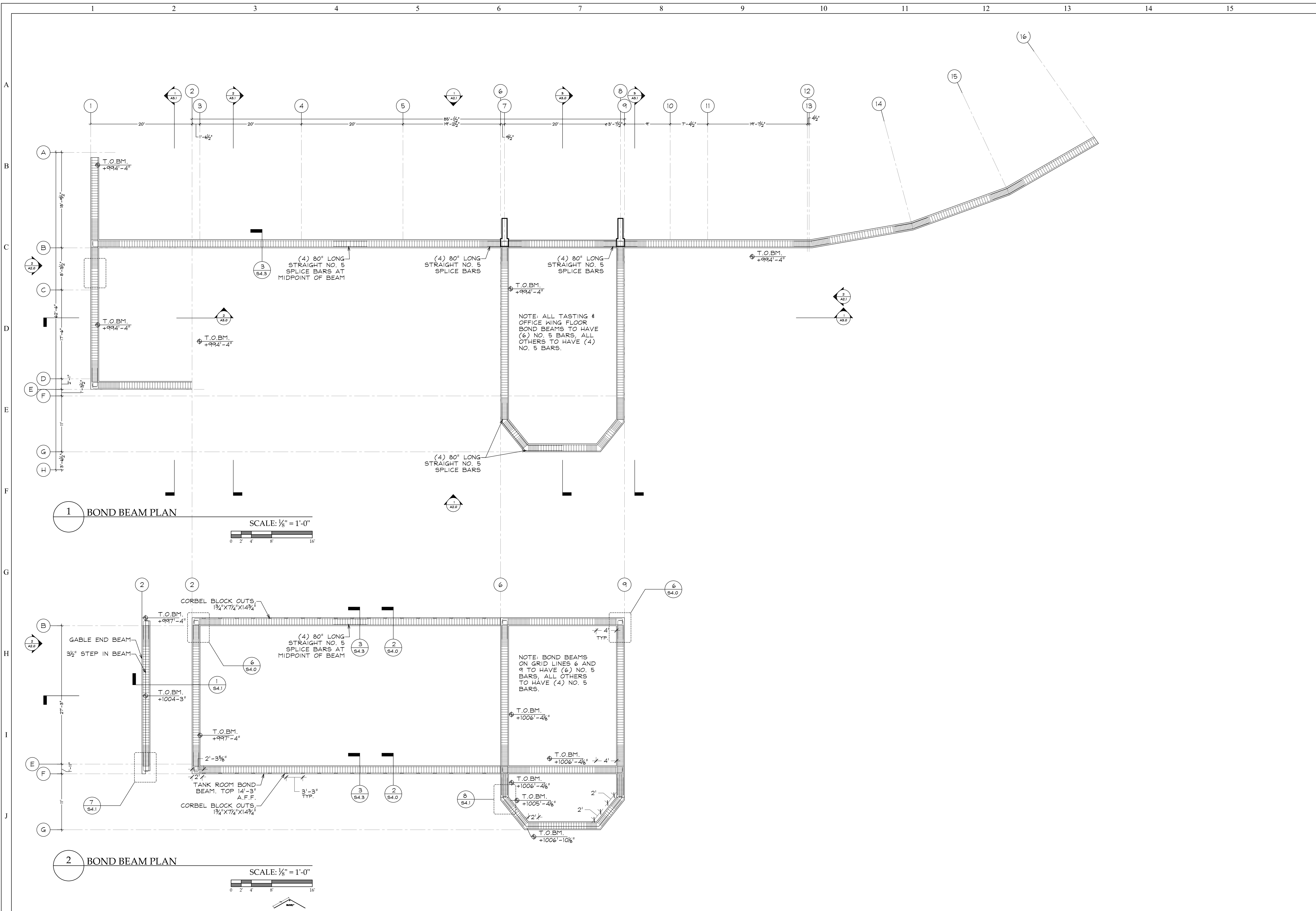
- NOTES**
- CAVE ROOF SYSTEM, 12" QUAD-DECK PANEL W/ 4" SLAB, CONCRETE JOIST AT 24" O.C. WITH (2) NUMBER 5 BARS BOTTOM OF EA. JOIST.
 - TANK BUILDING ROOF TO BE 12 1/2" PREMIER SIPS PANEL W/ 1/2" OSB FACING. TYPE 'S' SPLINE FASTENED ON TOP ONLY AT INTERIOR PANEL TO PANEL JOINTS. 0.113"X2 1/2", 3" O.C. EXTERIOR PERIMETER PANELS SHALL BE SOLID 2X12 FASTENED WITH 0.113"X2 1/2" NAILS 6" O.C. BOTH SIDES. AT ALL SUPPORTS PBS NO. 14 SCREW W/1" PENETRATION, 12" O.C. ALLOWABLE SHEAR 430 PLF
 - TASTING ROOM BUILDING ROOF TO BE 2X6 T&G DF WITH 1/2" PLYWOOD. CONNECT 2X6 DECKING TO 6X8 BEAMS W/ 3" MSV35. CONNECT PLYWOOD TO 2X6 W/ #9X1 1/2" (MSV134) SCREWS AT 6" O.C. ALL PLY EDGES, 12" O.C. IN THE FIELD. 16d AT 6" O.C. THROUGH PLYWOOD AND DECKING INTO 6X8 RAFTER BEAMS. 16d AT 4" O.C. TO TOP PLATE OF WALL AT GRID LINE F.
 - KITCHEN ROOF SYSTEM, 12" QUAD-DECK PANEL W/ 4" SLAB, CONCRETE JOIST AT 24" O.C. WITH (1) NUMBER 5 BAR BOTTOM OF EA. JOIST.
 - 18GA VULCRAFT 3VL J-36 W/ 2" TOPPING 4000 PSI NORMAL WEIGHT CONCRETE. TOTAL 5" DEPTH. MAXIMUM UNSHORED SPAN DURING CONSTRUCTION IS 12 FT.
 - 20GA 1 1/2B-36 GRADE 50 ROOF DECK W/ NO. 12 SCREW CONNECTION TO SUPPORTS AT A 3/4" PERPENDICULAR CONNECTION PATTERN TO SUPPORTS, AND NO. 10 SCREWS SIDE LAP CONNECTIONS AT 24" O.C.
 - 20GA 1 1/2B-36 GRADE 50 ROOF DECK W/ NO. 12 SCREW CONNECTION TO SUPPORTS AT A 3/4" PERPENDICULAR CONNECTION PATTERN TO SUPPORTS, AND NO. 10 SCREWS SIDE LAP CONNECTIONS AT 24" O.C.
 - FLOOR DIAPHRAGM, USE 3/4" PLYWOOD SHEATHING W/ SIMPSON PPHD 134 (#10 SCREW) AT 6" O.C. AT ALL SUPPORTED EDGES, 12" O.C. IN FIELD (UNBLOCKED DIAPHRAGM) FLOOR JOIST CLARK DIETRICH BUILDING SYSTEMS TRADEREADY, 1000TDW24-200-97 AT 24" O.C.
 - CLARK DIETRICH BUILDING SYSTEMS TRADEREADY, BLOCKING 1000JB24 (TYP.)
 - HEADER AND FRAMING FOR MECHANICAL SHAFT. CLEAR OPENING THROUGH FLOOR, 28"X15 3/8".
 - OMIT BLOCKING ON THESE LINES TO ALLOW HVAC DUCTS.
 - DECK TRANSVERSE DIAPHRAGM REINFORCEMENT (4) NO. 4 BARS AT 4" O.C. CENTERED ON INTERIOR BEAMS, AT ENDS (4) NO. (4) AT 4" O.C. LAYED OUT FROM THE EDGE IN AND AT GRID LINES 6&9 START LAYOUT AT G5 AND (4) AT 4" O.C. MOVING AWAY FROM LAB/OFFICE BLDG.
 - DECK LONGITUDINAL DIAPHRAGM REINFORCEMENT (4) NO. 4 BARS AT 4" O.C. LAYED OUT FROM THE EDGE IN, ENTIRE LENGTH OF DECK.
 - CONTRACTORS TO SUBMIT SHORING PLAN TO E.O.R. FOR REVIEW

BEAM NO. **BM 1**

BEAM #	SIZE (WxH)	TYPE/ GRADE
BM 1	6XVARIES	DF NO. 1
BM 2	6X8	DF NO. 1
BM 3	6 3/4 X 11 1/2	ROSBORO X-BEAM GLU-LAM
BM 4	6X12	D.F. SEL. STRUCTURAL
BM 5	6X12	D.F. NO. 1
BM 6	6X4X3/4	HSS
BM 7	5X4X3/4	HSS
BM 8	W10X26	WIDE FLANGE
BM 9	12X8X1/4	HSS
BM 10	VARIES	GLU-LAM TRUSS
BM 11	4X6	DF NO. 1
BM 12	4X8	DF NO. 1

22 HARDWARE CALLOUT

#	SIMPSON HARDWARE
10	CM9TC16
11	HGAM10
12	A35
13	PA23
14	HGA10
15	S/LBV2.12/10
16	S/LBV2.12/10/ SKR45
17	S/LBV2.12/10/ SKL45
18	HTT4
19	HD8B5
20	



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BOND BEAM PLAN

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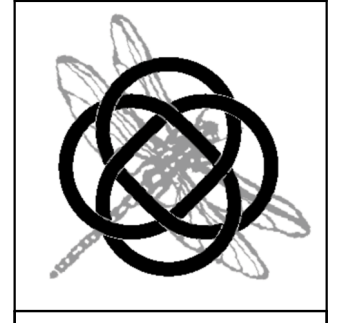
MOOSE MOUNTAIN VINEYARDS

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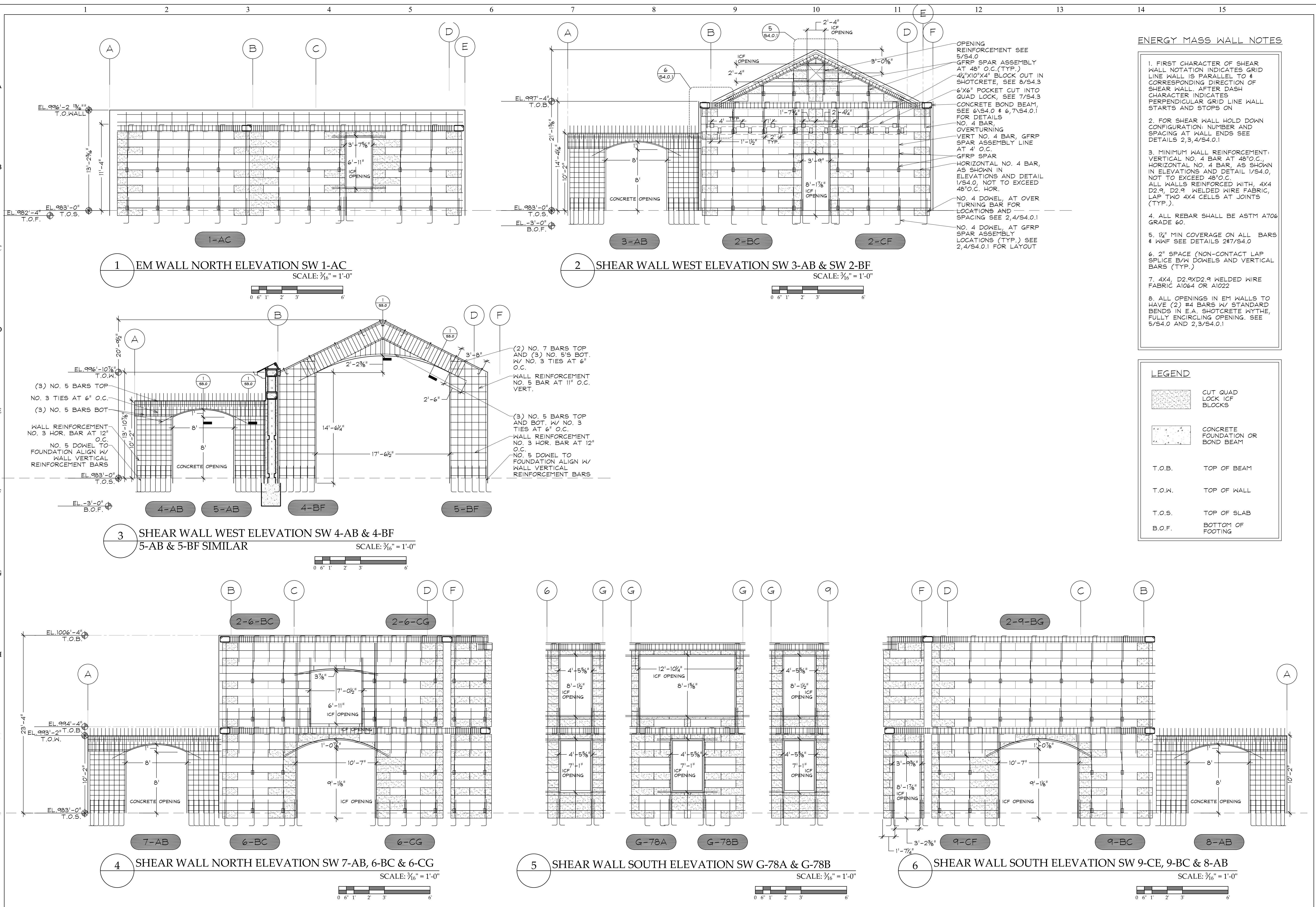


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 JOB: 15614 MMV
 SHEET:

S 1.4



ENERGY MASS WALL NOTES

1. FIRST CHARACTER OF SHEAR WALL NOTATION INDICATES GRID LINE WALL IS PARALLEL TO & CORRESPONDING DIRECTION OF SHEAR WALL. AFTER DASH CHARACTER INDICATES PERPENDICULAR GRID LINE WALL STARTS AND STOPS ON
2. FOR SHEAR WALL HOLD DOWN CONFIGURATION, NUMBER AND SPACING AT WALL ENDS SEE DETAILS 2,3,4/S4.0.1
3. MINIMUM WALL REINFORCEMENT: VERTICAL NO. 4 BAR AT 48" O.C., HORIZONTAL NO. 4 BAR, AS SHOWN IN ELEVATIONS AND DETAIL 1/S4.0, NOT TO EXCEED 48" O.C. ALL WALLS REINFORCED WITH 4X4 D2.9, D2.9 WELDED WIRE FABRIC, LAP THRU 4X4 CELLS AT JOINTS (TYP.).
4. ALL REBAR SHALL BE ASTM A706 GRADE 60.
5. 1/2" MIN COVERAGE ON ALL BARS & WAF SEE DETAILS 2/7/S4.0
6. 2" SPACE (NON-CONTACT LAP SPLICE B/W DOWELS AND VERTICAL BARS (TYP.))
7. 4X4, D2.9XD2.9 WELDED WIRE FABRIC A1064 OR A1022
8. ALL OPENINGS IN EM WALLS TO HAVE (2) #4 BARS W/ STANDARD BENDS IN E.A. SHOTCRETE WYTHE, FULLY ENCRICLING OPENING. SEE 5/S4.0 AND 2,3/S4.0.1

LEGEND

- CUT QUAD LOCK ICF BLOCKS
- CONCRETE FOUNDATION OR BOND BEAM
- T.O.B. TOP OF BEAM
- T.O.W. TOP OF WALL
- T.O.S. TOP OF SLAB
- B.O.F. BOTTOM OF FOOTING

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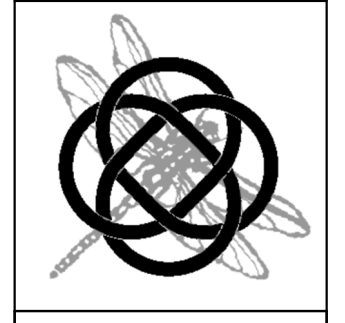
SHEAR WALL ELEV. 1

MOOSE MOUNTAIN VINEYARDS

PLAN REVIEW SET



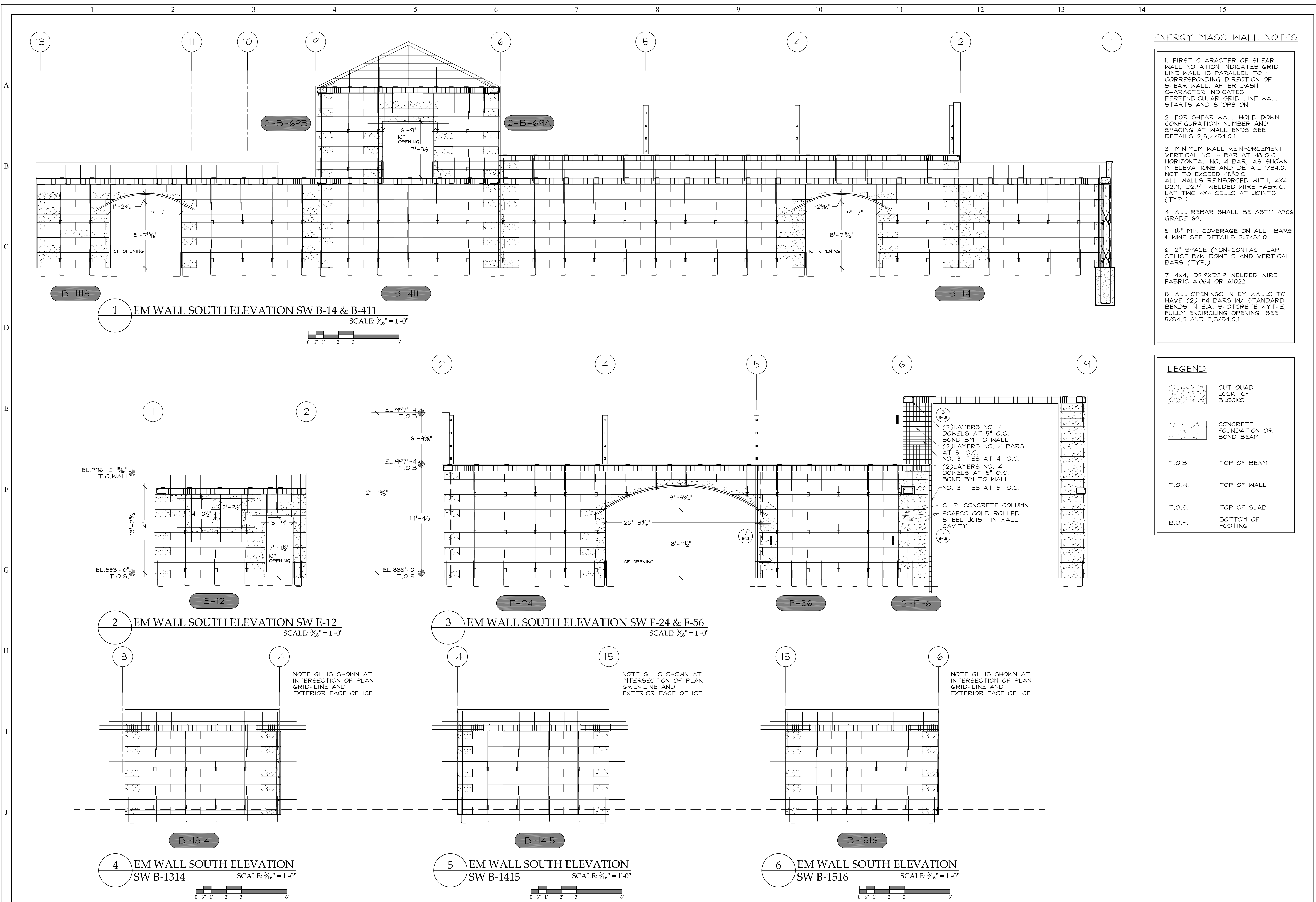
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ENERGY MASS WALL NOTES

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2. FOR SHEAR WALL HOLD DOWN CONFIGURATION: NUMBER AND SPACING AT WALL ENDS SEE DETAILS 2,3,4/S4.0.1
3. MINIMUM WALL REINFORCEMENT: VERTICAL NO. 4 BAR AT 48" O.C., HORIZONTAL NO. 4 BAR, AS SHOWN IN ELEVATIONS AND DETAIL 1/S4.0, NOT TO EXCEED 48" O.C. ALL WALLS REINFORCED WITH 4X4 D2.9, D2.9 WELDED WIRE FABRIC, LAP TWO 4X4 CELLS AT JOINTS (TYP.).
4. ALL REBAR SHALL BE ASTM A706 GRADE 60.
5. 1/2" MIN COVERAGE ON ALL BARS # WNF SEE DETAILS 2#7/S4.0
6. 2" SPACE (NON-CONTACT LAP SPLICE B/W DOWELS AND VERTICAL BARS (TYP.))
7. 4X4, D2.9XD2.9 WELDED WIRE FABRIC A1064 OR A1022
8. ALL OPENINGS IN EM WALLS TO HAVE (2) #4 BARS W/ STANDARD BENDS IN E.A. SHOTCRETE WYTHE, FULLY ENCIRCLING OPENING. SEE 5/S4.0 AND 2,3/S4.0.1

LEGEND

	CUT QUAD LOCK ICF BLOCKS
	CONCRETE FOUNDATION OR BOND BEAM
T.O.B.	TOP OF BEAM
T.O.W.	TOP OF WALL
T.O.S.	TOP OF SLAB
B.O.F.	BOTTOM OF FOOTING

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SHEAR WALL ELEV. II

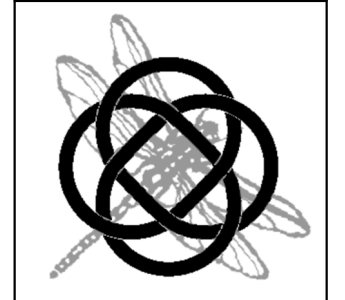
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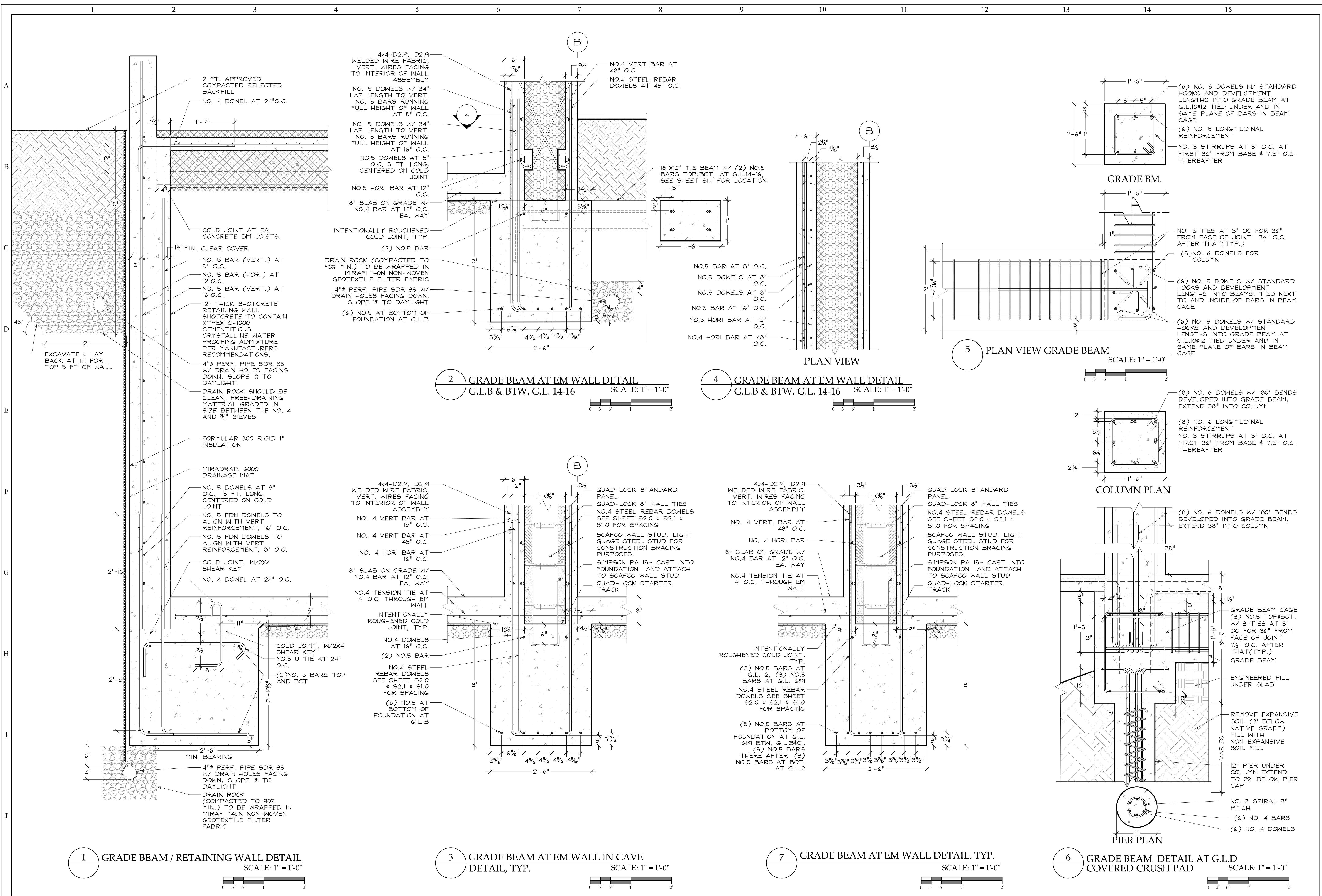


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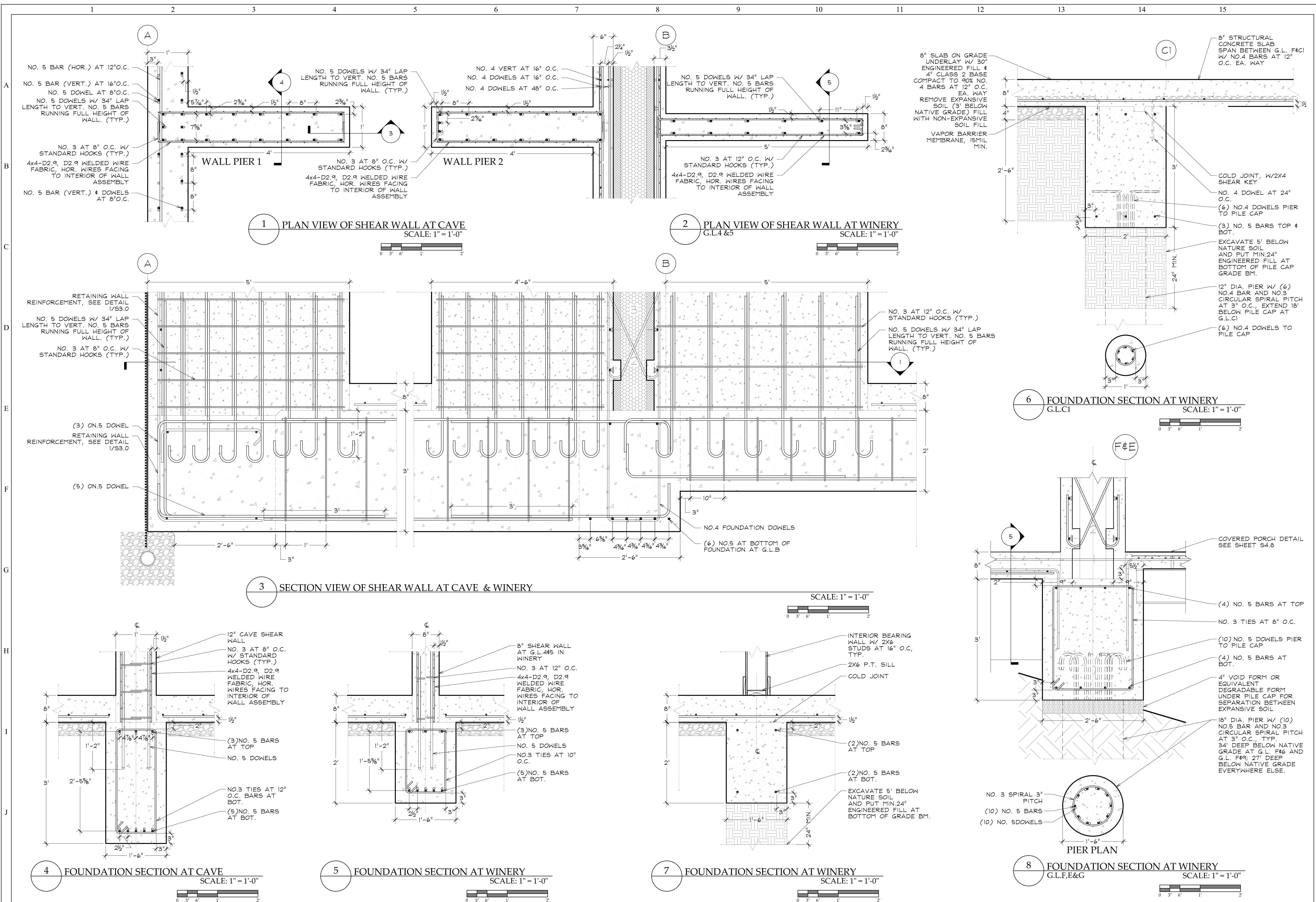
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REGISTERED PROFESSIONAL ENGINEER
GARY BLANK
CIVIL
STATE OF CALIFORNIA
No. 50921 Exp. 04/17/25

DATE: 12/11/23
DRAWN: ----
JOB: 15614 MMV
SHEET: **S 3.0**



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FOUNDATION DETAILS II

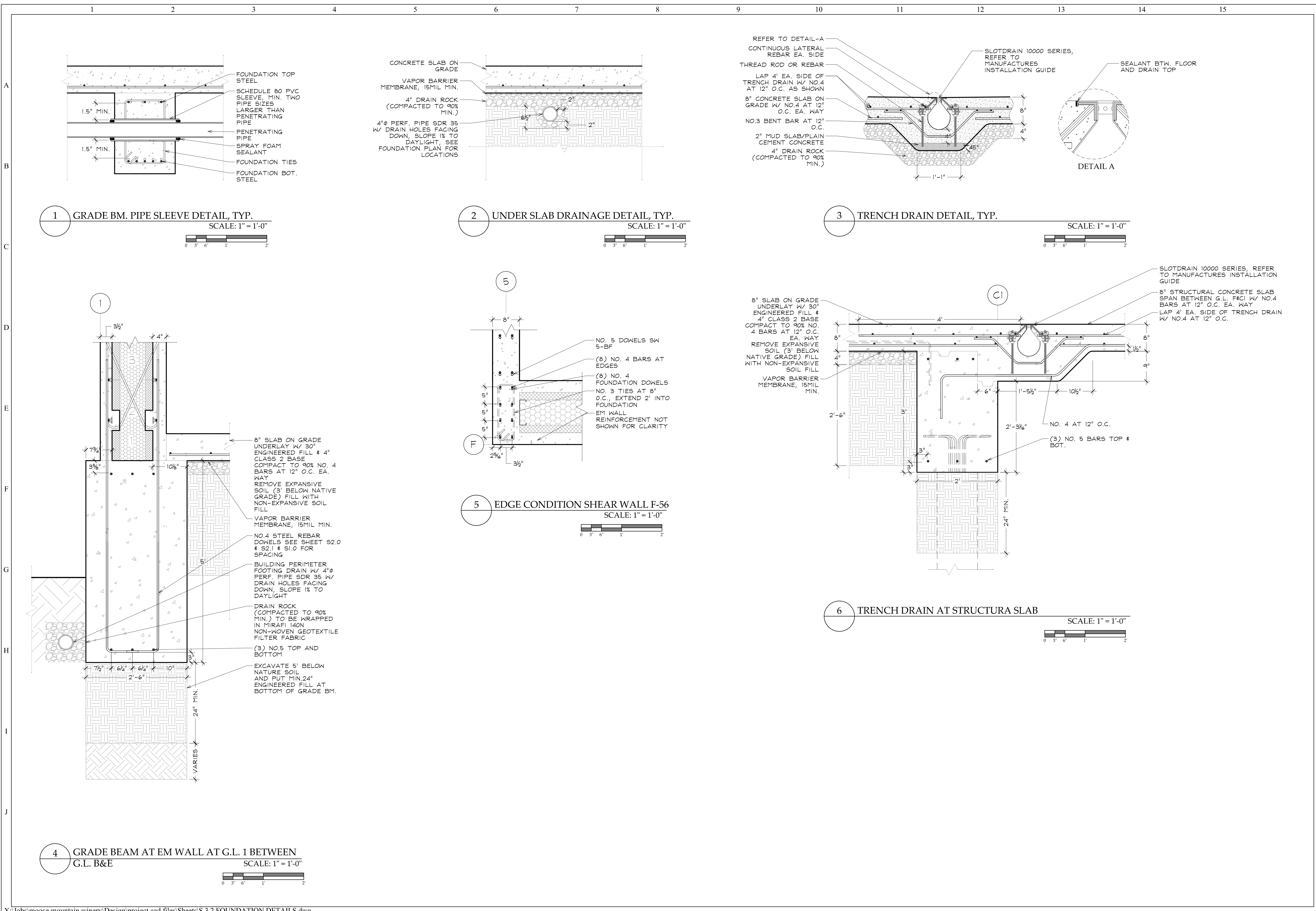
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INTEGRATED STRUCTURES, INC.
ARCHITECTURE ENGINEERING CONSTRUCTION MANAGEMENT
1265 65TH Street, Emeryville, CA 94608
Tel: (510) 735-9801

REGISTERED PROFESSIONAL ENGINEER
GARY BLAKE
No. 50921
Exp. 06/30/25
CIVIL
STATE OF CALIFORNIA

DATE: 12/11/23
DRAWN: ----
JOB: 15614 MMV
SHEET:
S 3.1



REVISIONS BY:

FOUNDATION DETAILS

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MOOSE MOUNTAIN VINEYARDS

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APN: 825-29-029

PLAN REVIEW SET

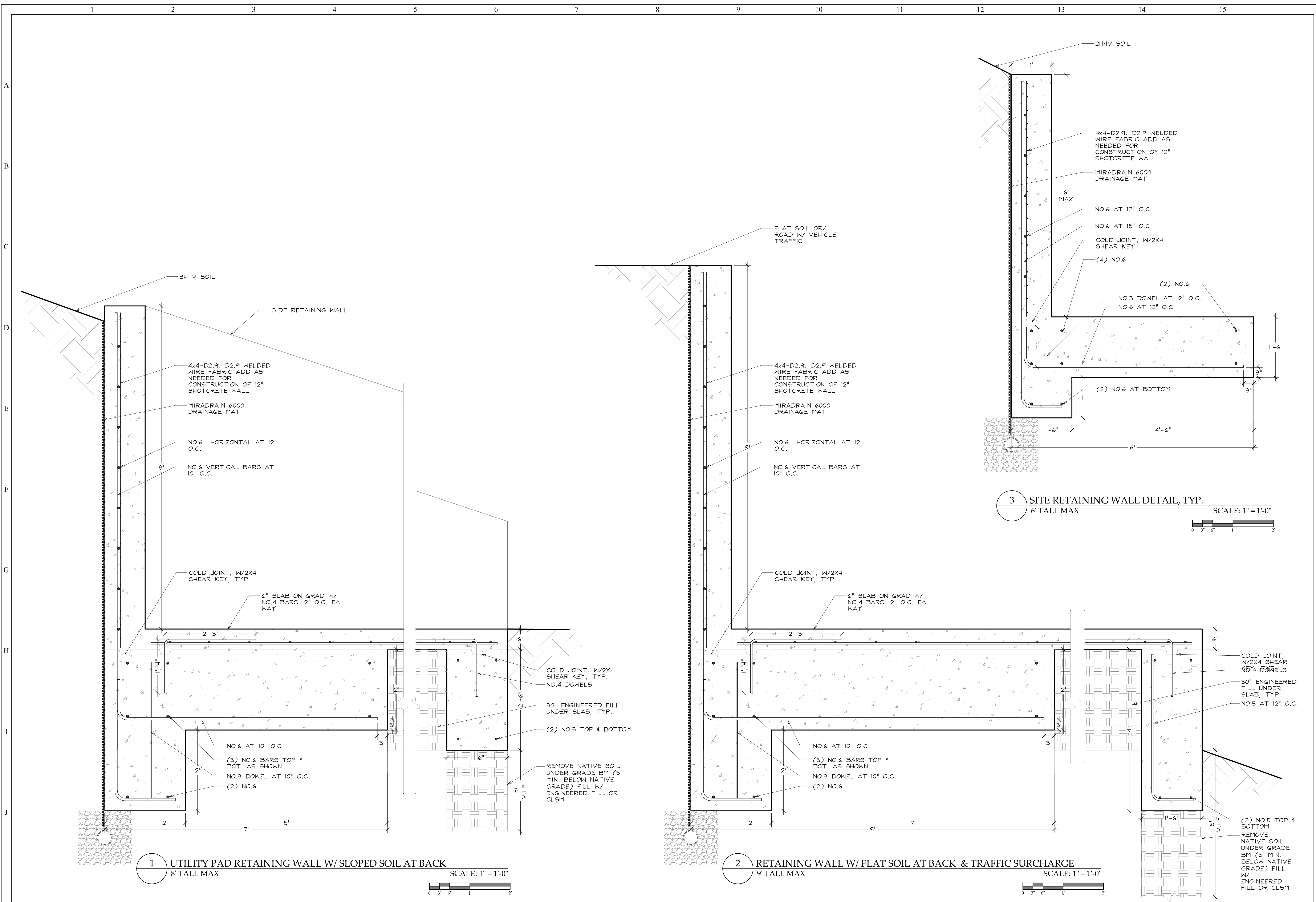


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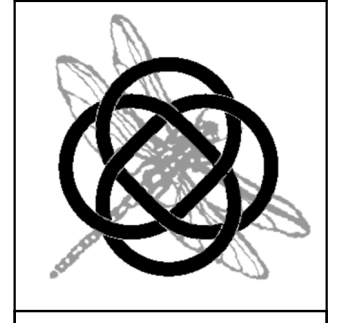
MOOSE MOUNTAIN VINEYARDS

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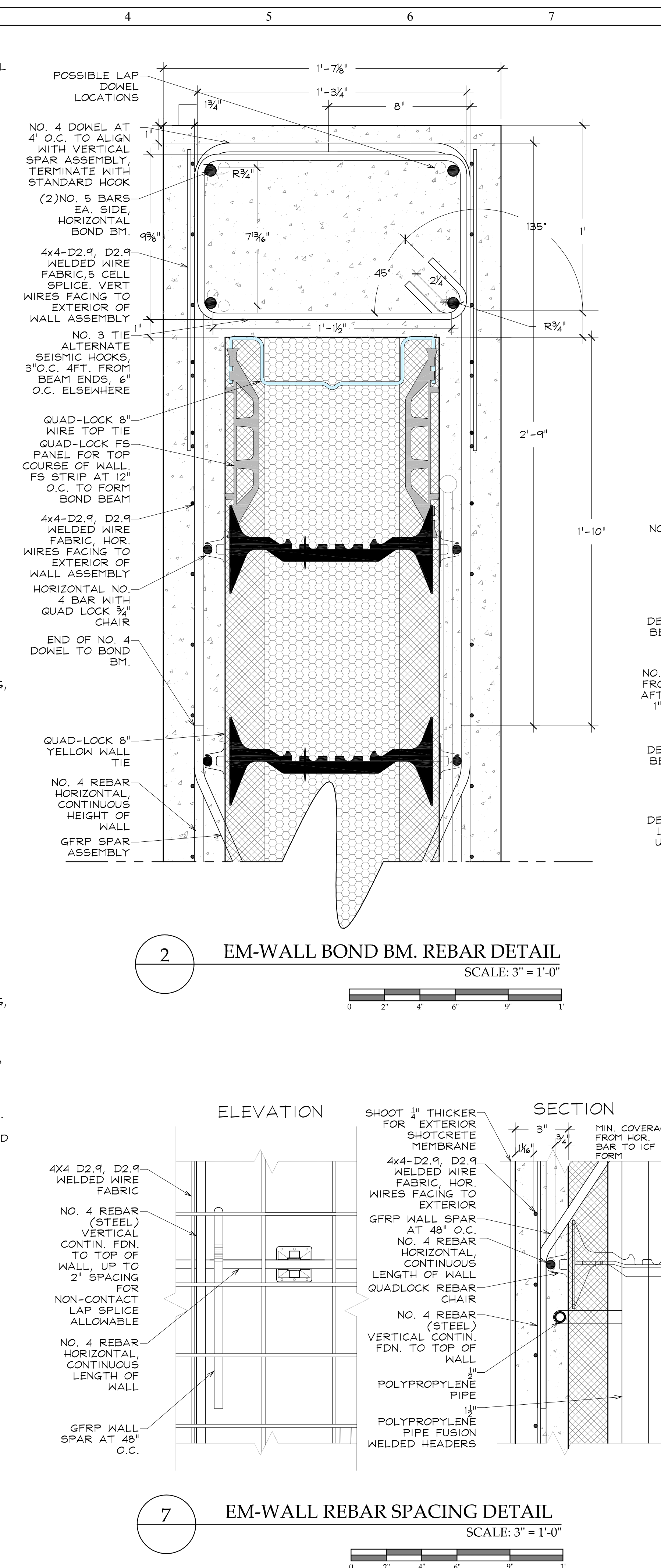
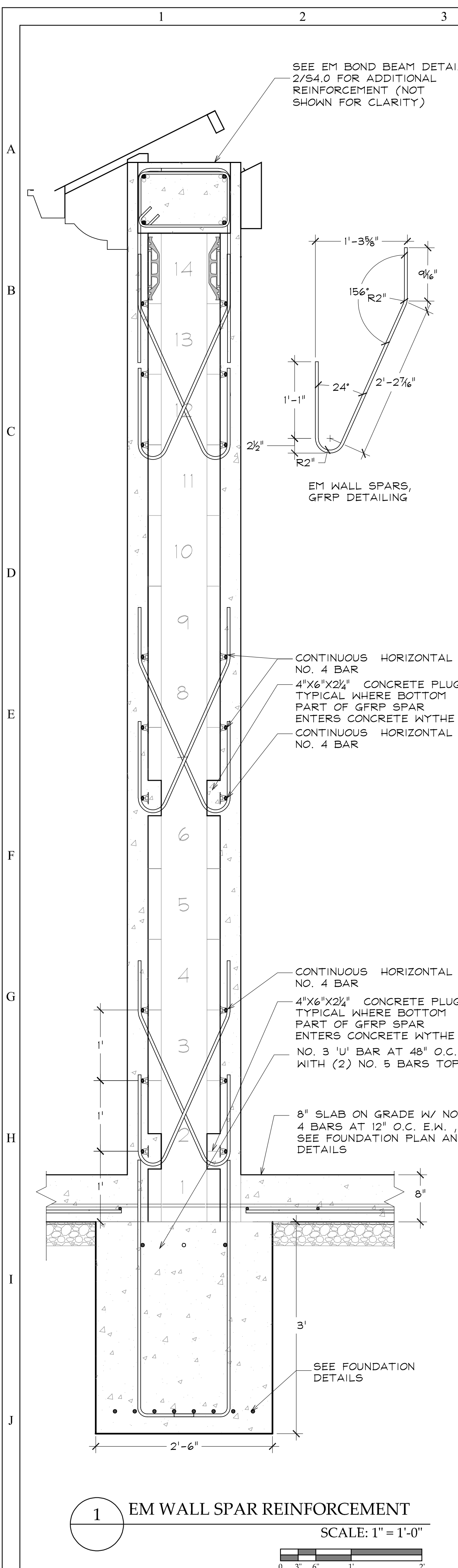
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DRAWN: ----

JOB: 15614 MMV

SHEET:

S 3.3



REINFORCEMENT DEVELOPMENT: ACI 318-14 CHAPTER 25

MINIMUM BOND

4db - N#3 THRU N#5 - STIRRUPS & TIES

6db - N#3 THRU N#8

8db - N#9, N#10, 4 N#11

10db - N#14 & N#18

db = Bar Diameter, i.e. N#5 = N#5 - 5/8"

4db OR 2 1/2" MIN

4db OR 2 1/2" MIN

16db LEG

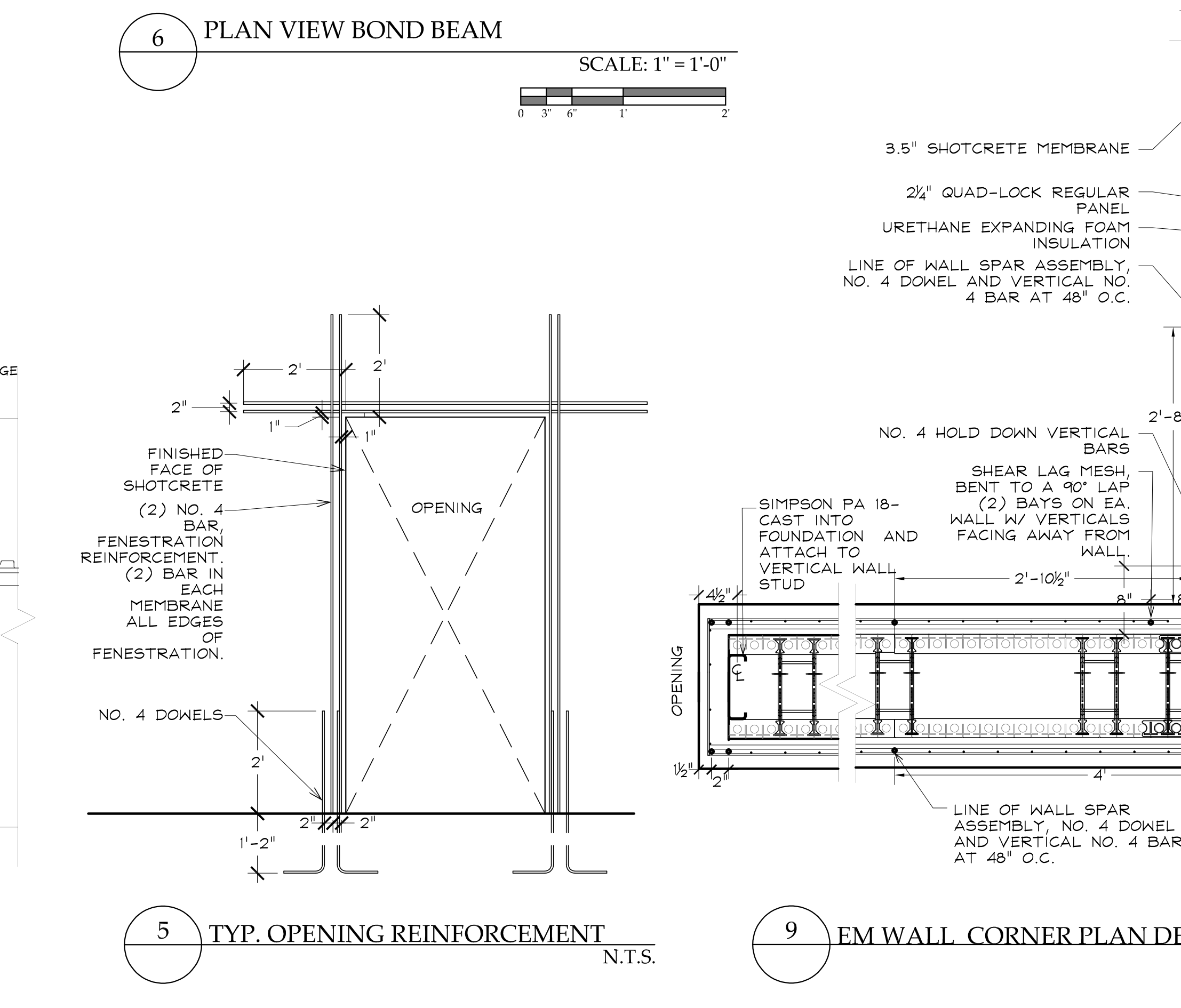
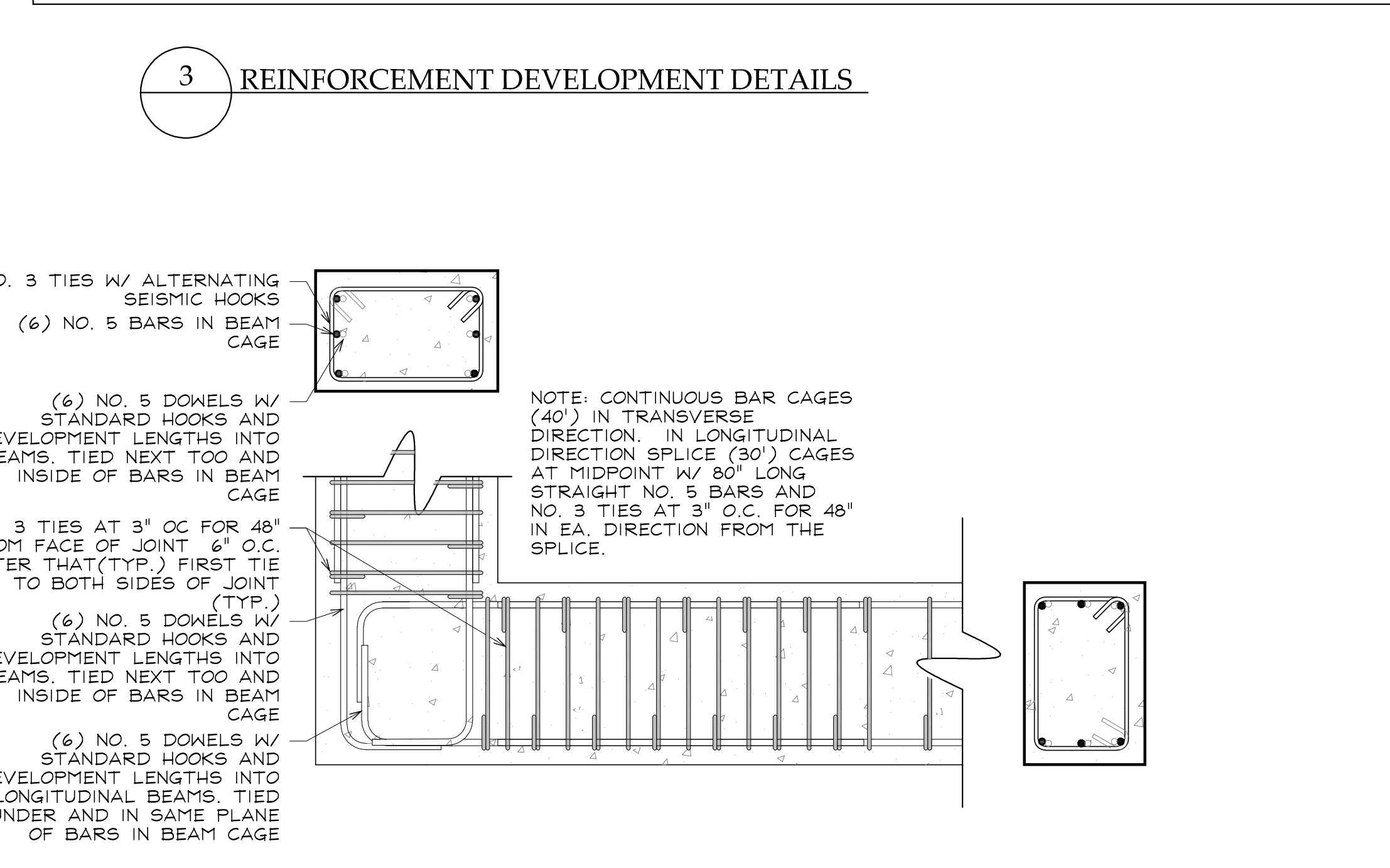
FACE OF JOINT

FACE OF JOINT CRITICAL SECTION

ACI 318-14 CHAPTER 25

B-BAR	WYTHE	Straight Length (L _{sd}) *		Hooked Length (L _{hd})		Hooked LEG		
		3000 psi	4000 psi	3000 psi	4000 psi	STANDARD	STIRRUPS/TIES	STIRRUPS/TIES
#10	N#3	16.5 in	14.0 in	16 in	16 in	6 in	24 in	24 in
#13	N#4	22 in	19 in	11 in	9 1/2 in	8 in	3 in	3 in
#16	N#5	27.5 in	23 1/2 in	13 1/2 in	11 1/2 in	10 in	3 1/2 in	3 1/2 in
#19	N#6	33 in	28 1/2 in	16 1/2 in	14 1/2 in	12 in	3 1/2 in	3 1/2 in
#22	N#7	38.5 in	33 1/2 in	19 1/2 in	16 1/2 in	14 in	3 1/2 in	3 1/2 in
#25	N#8	44 in	38 in	22 in	19 in	16 in	3 in	3 in
N#9		49.5 in	42.75 in	24 1/2 in	21 1/2 in	15 1/2 in		
N#10		55 in	47.5 in	27 1/2 in	23 1/2 in	17 1/2 in		
N#11		60.5 in	52 in	30 1/2 in	26 in	19 1/2 in		
N#14		77 in	66.5 in	38 1/2 in	33 1/2 in	23 1/2 in		
N#18		99 in	85.5 in	49 1/2 in	42 1/2 in	30 1/2 in		

* REQUIRED LAP LENGTH IS 1.3 x EMBEDMENT LENGTH, CLASS A SPLICE



REINFORCEMENT COVERAGE: ACI 318-14 TABLE 20.6.1.3.1

MINIMUM REINFORCEMENT COVER

FOR CAST-IN-PLACE CONCRETE (NON-PRESTRESSED)

(a) CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH.....3in

(b) CONCRETE EXPOSED TO EARTH OR WEATHER

N#6 THRU N#18 BARS.....2in

N#5 BAR, WBI OR D31 WIRE & SMALLER.....1 1/2in

(c) CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND

SLABS, WALLS, JOISTS:

N#14 & N#18.....1 1/2in

N#11 BAR & SMALLER.....3/4in

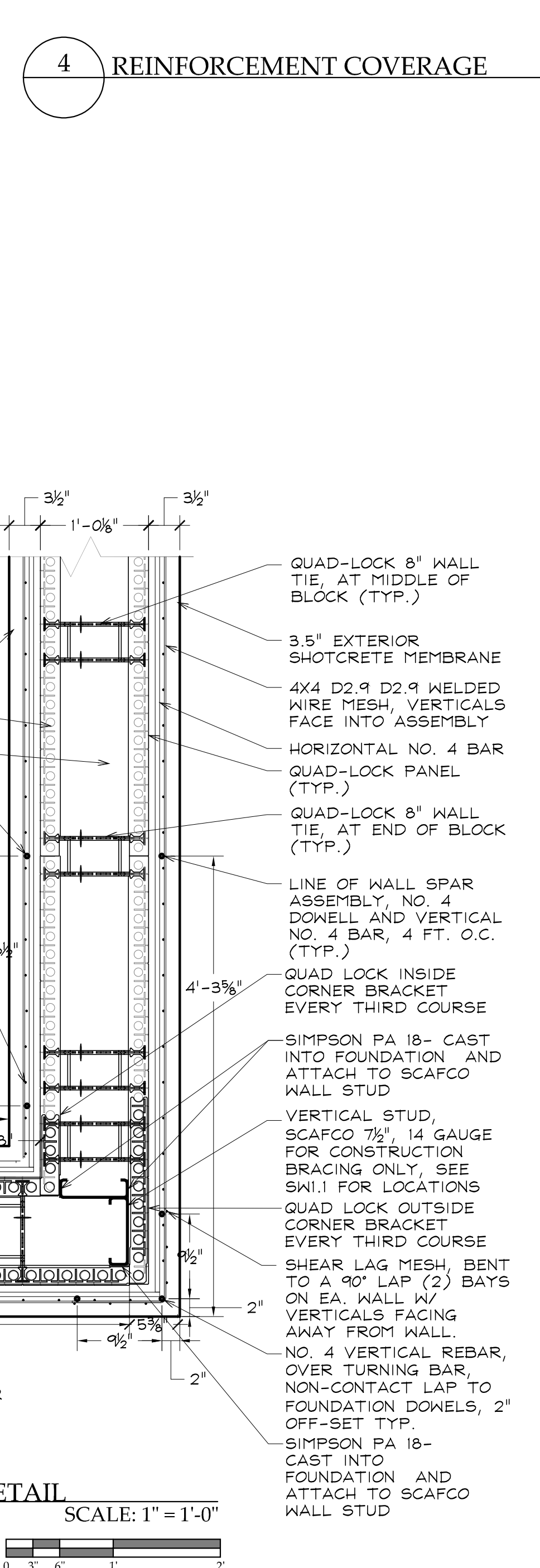
BEAMS, COLUMNS:

PRIMARY REINF., TIES, STIRRUPS, SPIRALS.....1/2in

SHELLS, FOLDED PLATES:

N#6 BAR & LARGER.....3/4in

N#5 BAR, WBI OR D31 WIRE & SMALLER.....1/2in



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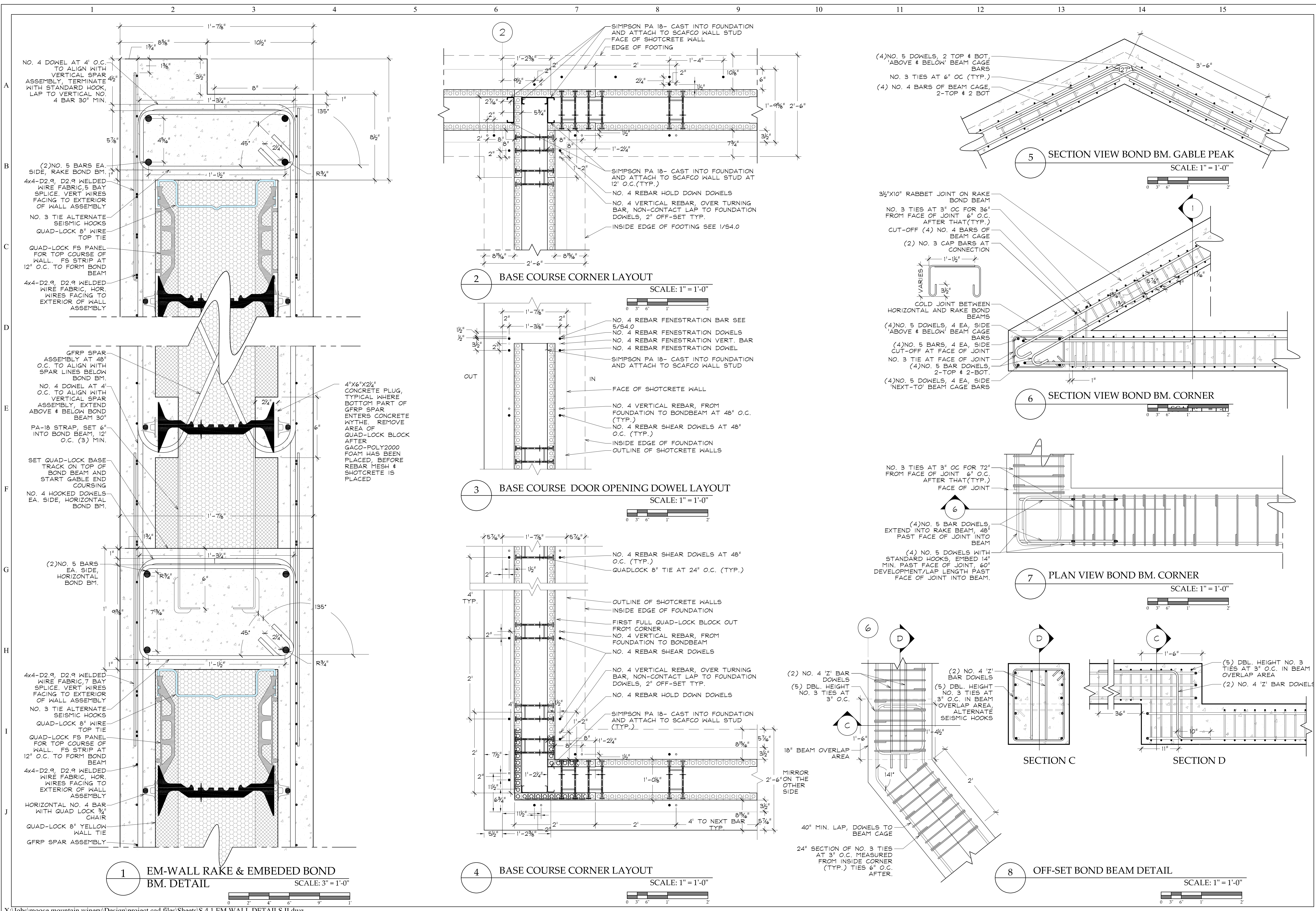
ENERGY MASS WALL DETAILS

MOOSE MOUNTAIN VINEYARDS

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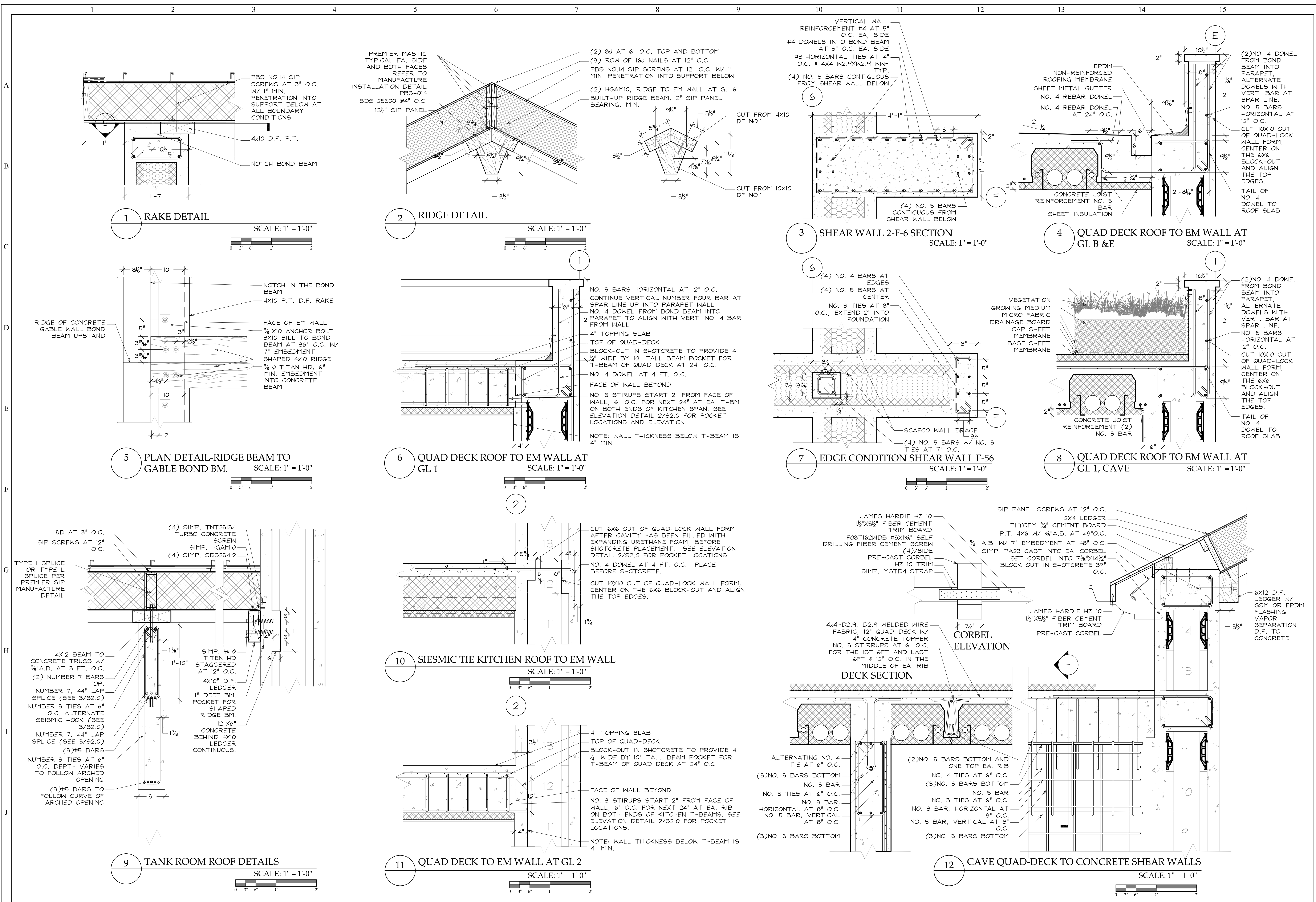
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EM WALL DETAILS II

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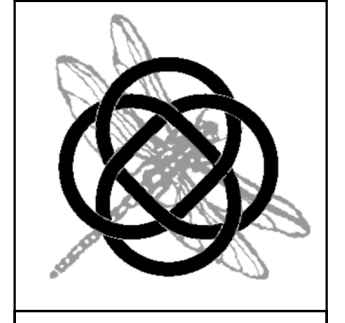
FRAMING DETAILS

MOOSE MOUNTAIN VINEYARDS

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S 4.3

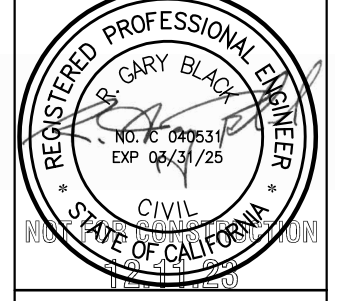
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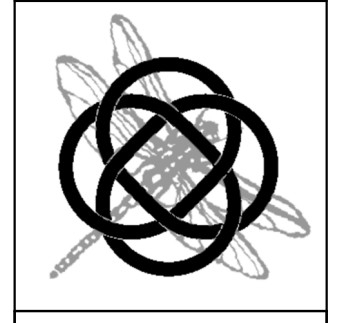
FRAMING DETAILS - TASTING WING

MOOSE MOUNTAIN VINEYARDS

PLAN REVIEW SET



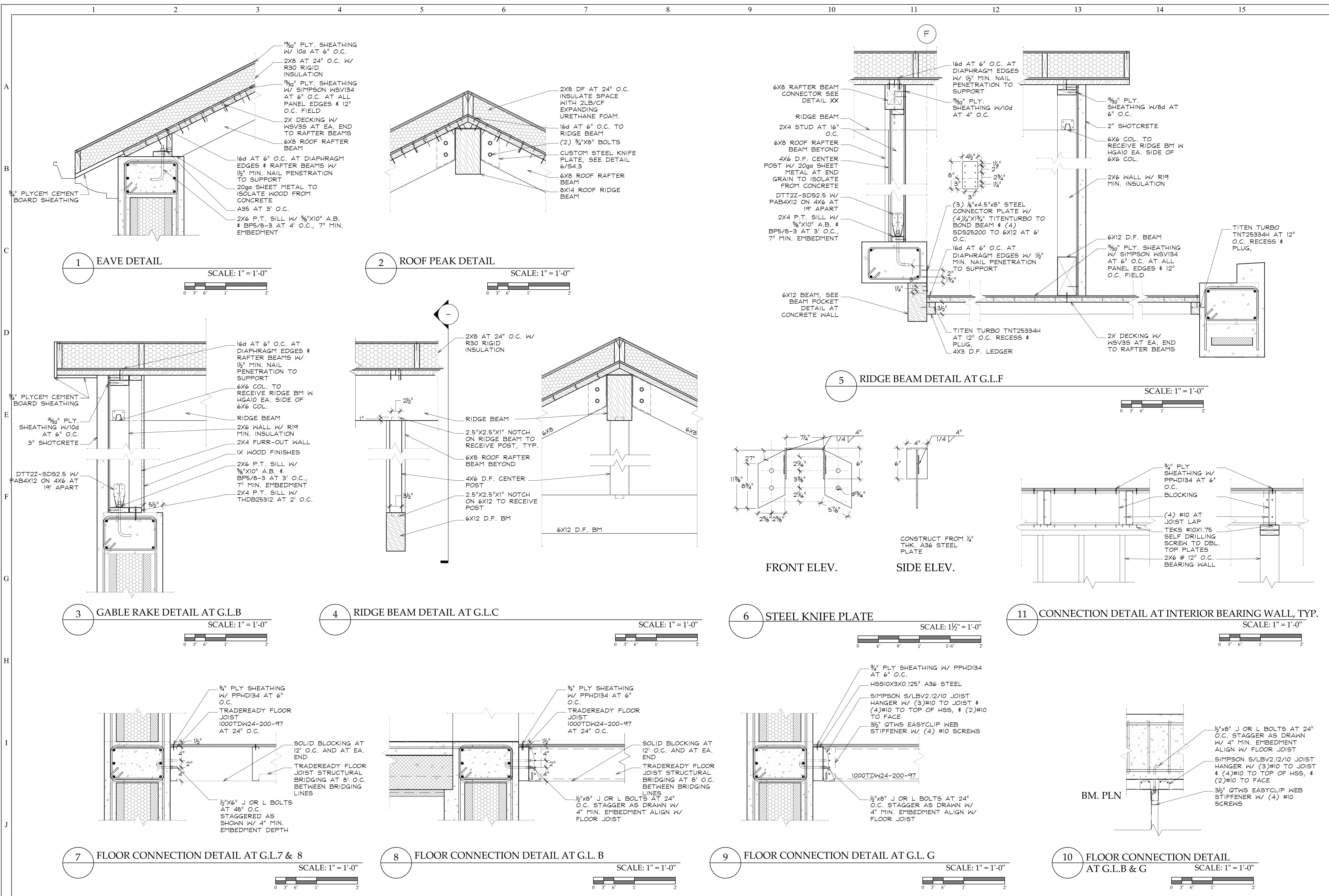
INTEGRATED STRUCTURES, INC. ARCHITECTURE ENGINEERING CONSTRUCTION MANAGEMENT 1265 65TH Street, Emeryville, CA 94608 Tel: (510) 735-9801

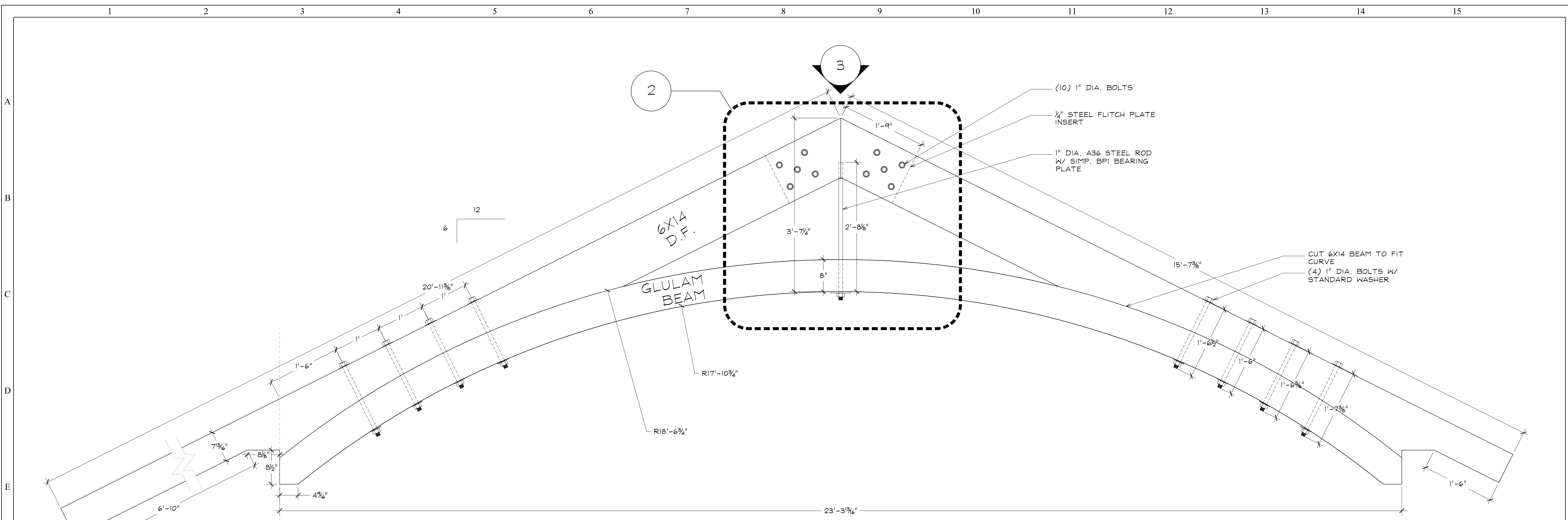


DATE: 12/11/23 DRAWN: ---- JOB: 15614 MMV SHEET:

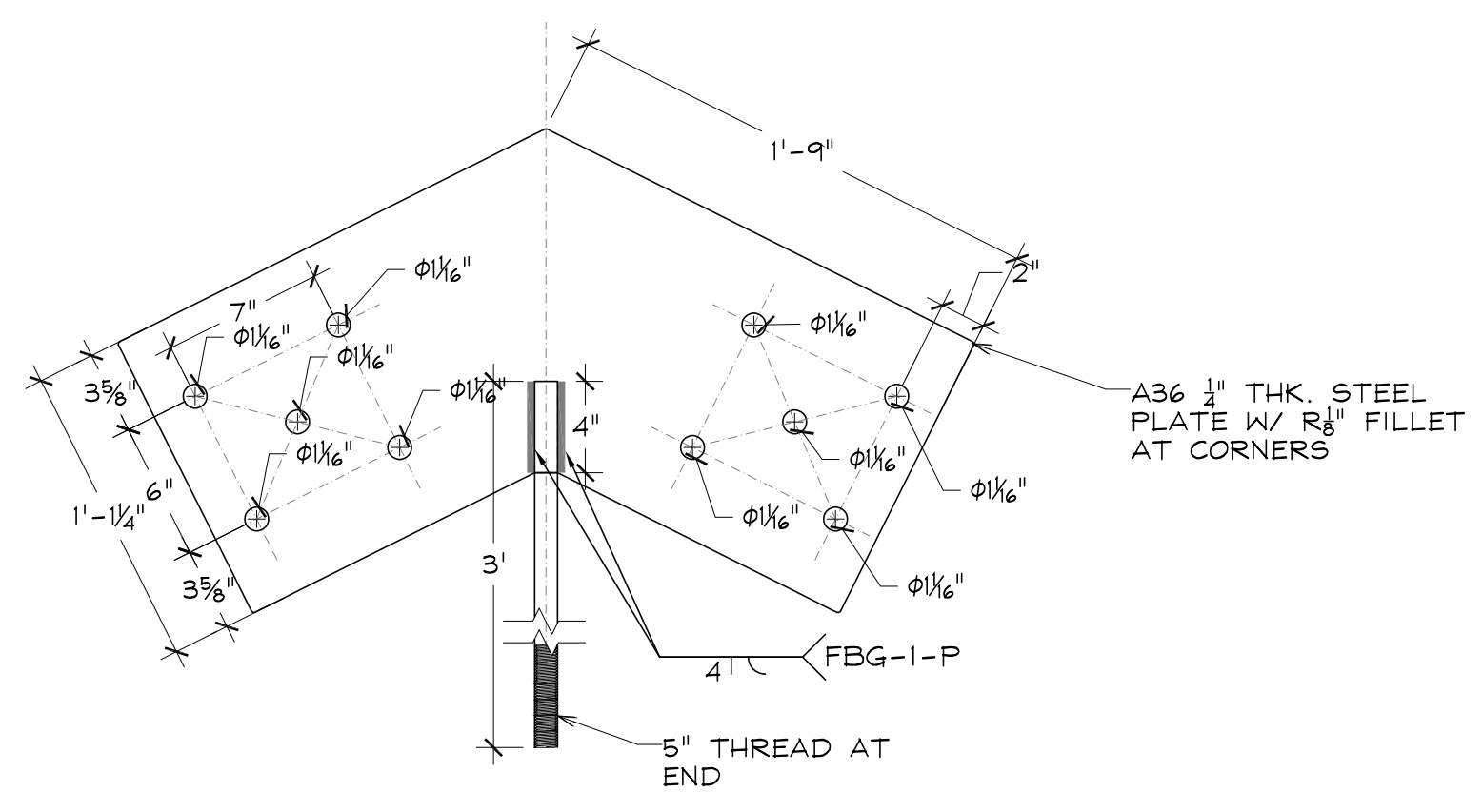
S 4.4

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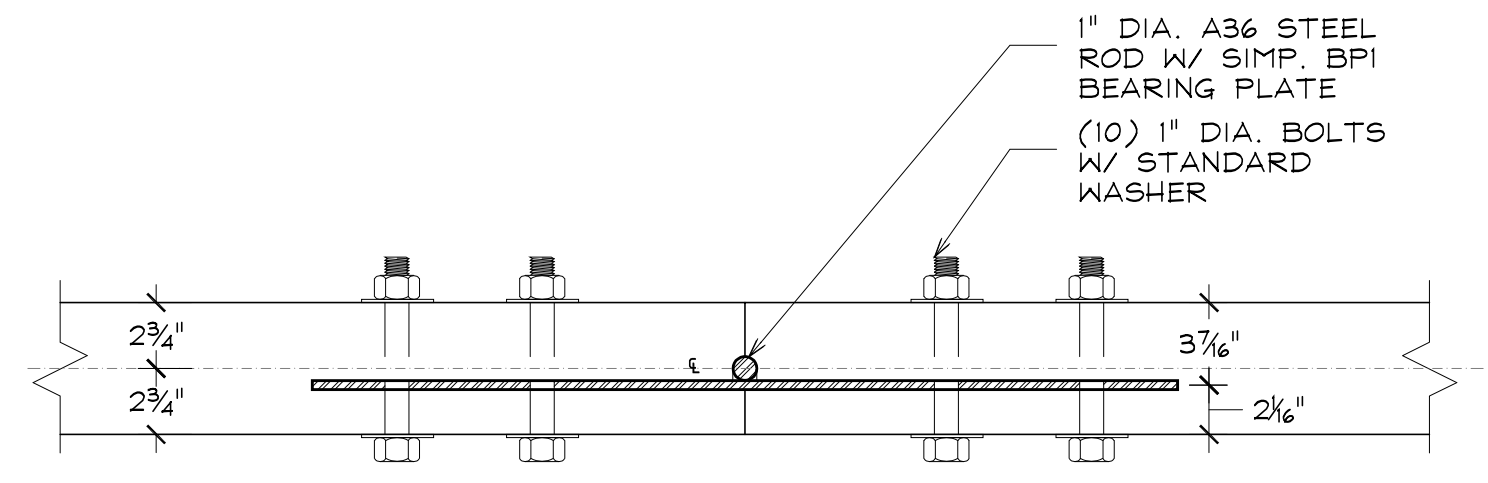




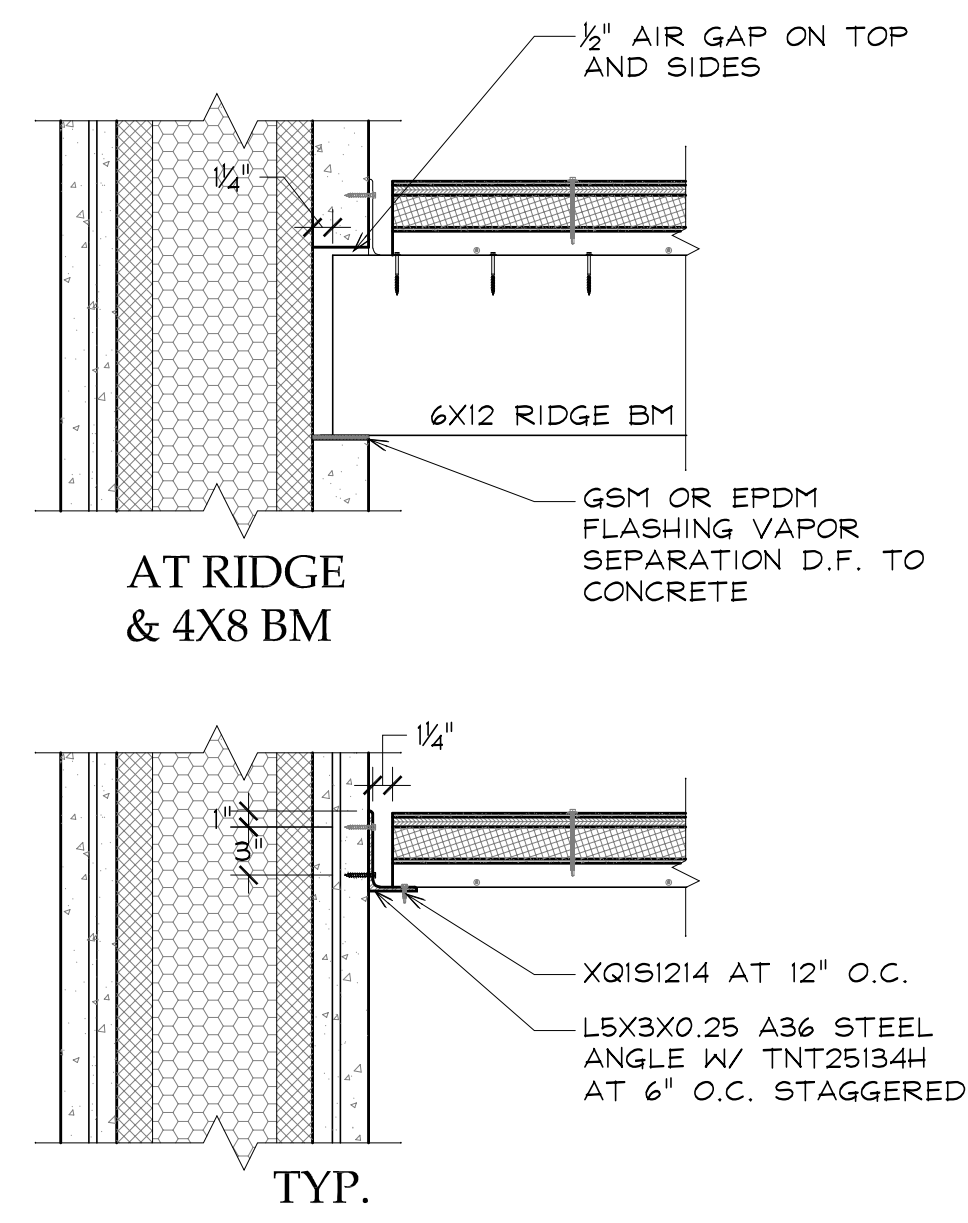
1 COVERED CRUSHPAD GLULAM TRUSS
(4) TRUSS TOTAL
SCALE: 1" = 1'-0"



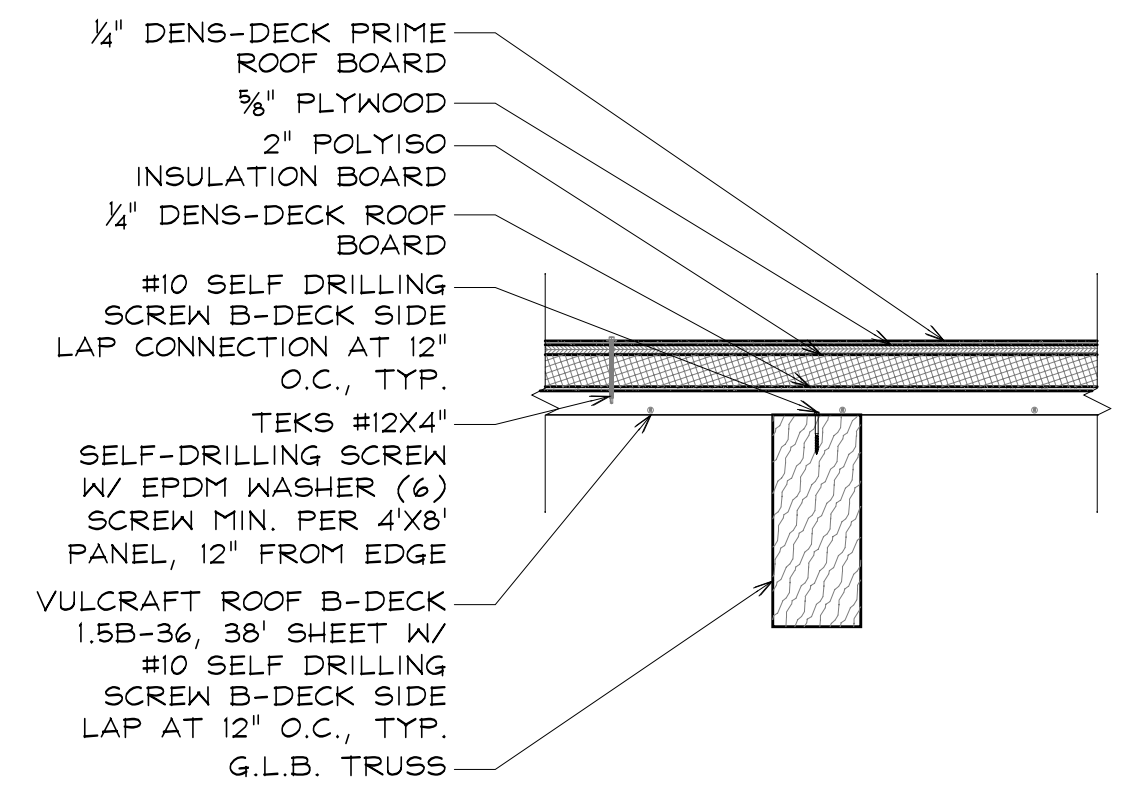
2 STEEL FLITCH PLATE
SCALE: 1 1/2" = 1'-0"



3 STEEL FLITCH PLATE
SCALE: 1 1/2" = 1'-0"



4 COVERED CRUSH PAD ROOF DETAIL AT EM WALL
SCALE: 1" = 1'-0"



5 COVERED CRUSH PAD ROOF DETAIL
SCALE: 1" = 1'-0"

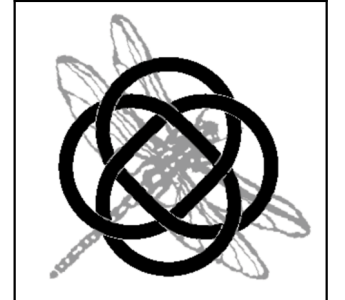
REVISIONS BY:

FRAMING DETAILS -
COVERED CRUSHPAD

MOOSE MOUNTAIN
VINEYARDS

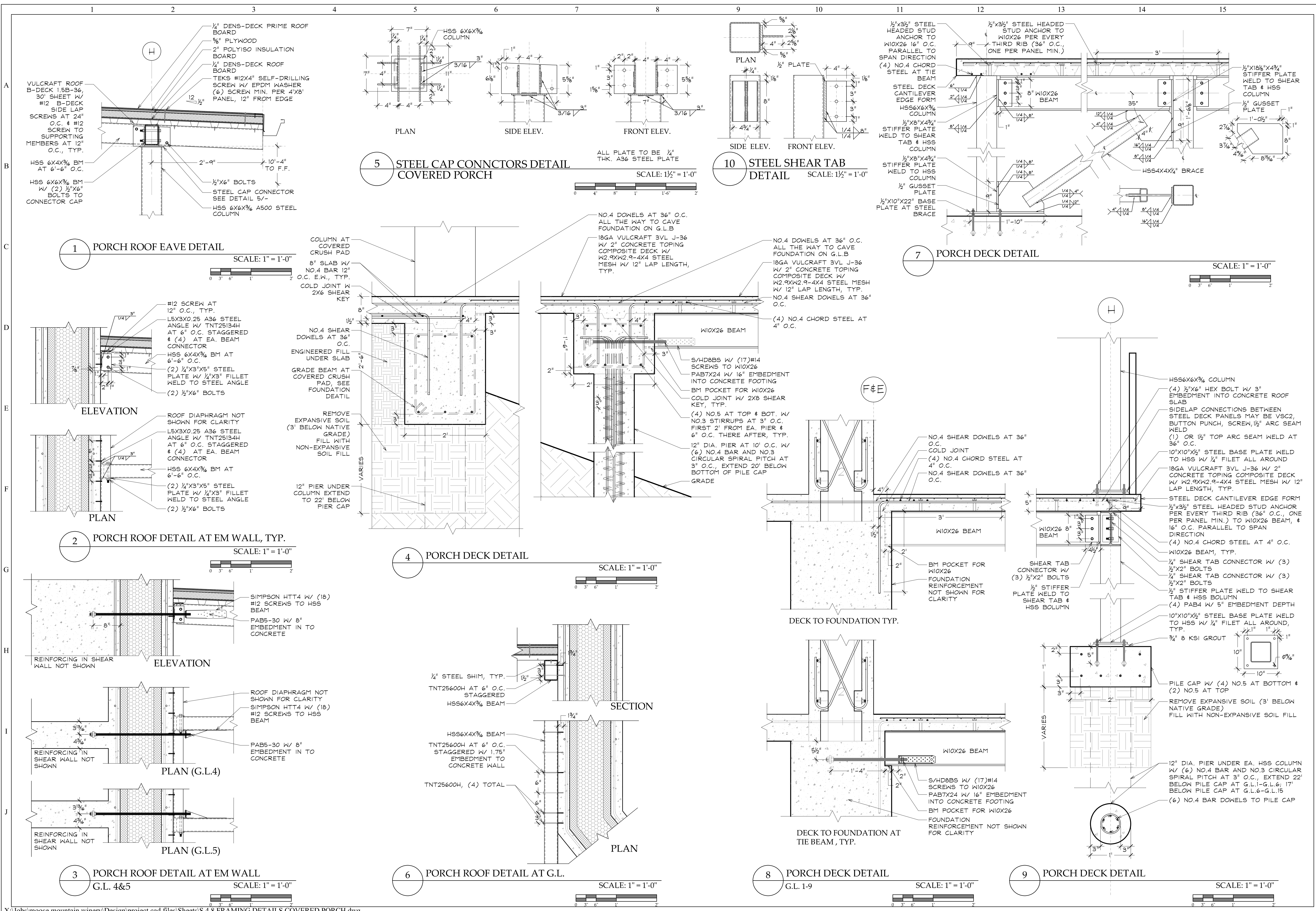


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FRAMING DETAILS COVERED PORCH

MOOSE MOUNTAIN VINEYARDS
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GENERAL NOTES:

- THIS PROJECT IS NEW CONSTRUCTION THE PLANS AND SPECIFICATIONS INDICATE THE GENERAL EXTENT OF THE WORK BASED ON OWNER PROVIDED RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL VISIT SITE, VERIFY EXISTING CONDITIONS, AND REPORT ANY DISCREPANCIES NOTED TO THE ARCHITECT PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS NECESSARY TO ACCOMPLISH THE WORK WHETHER OR NOT SPECIFIED AND/OR INDICATED.
- CUTTING OR CORING OF STRUCTURAL MEMBERS OR FOOTINGS IS PROHIBITED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- CONTRACTOR SHALL VERIFY THAT THE ELECTRICAL CONNECTIONS TO THE UNITS, INCLUDING CIRCUIT PROTECTION, CONFORM TO UNIT LABELS AND MANUFACTURER'S DIRECTIONS. WHERE WIRE SIZES SHOWN ON DRAWING EXCEED MANUFACTURER'S RECOMMENDATIONS, THE DRAWINGS SHALL GOVERN. ALL WIRING SHALL BE PER THE NATIONAL ELECTRICAL CODE, AS AMENDED AND ENFORCED BY JURISDICTIONAL AUTHORITY.
- ALL CONTROL WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE AND INSTALL RIGID CONDUIT IN AREAS EXPOSED TO THE ELEMENTS.
- PROVIDE SHOP DRAWINGS OF ALL MECHANICAL LAYOUTS SHOWING EQUIPMENT, DUCTWORK, REGISTERS, PIPING, FILTER RACKS, CONTROL DAMPERS, LIGHTS, ACCESS PANELS AND ACCESS SPACES, ETC.. OBTAIN AND COORDINATE WITH APPROVED FIRE SPRINKLER PLUMBING, ELECTRICAL, CASE WORK AND OTHER TRADES SHOP DRAWINGS PRIOR TO MECHANICAL DRAWING SUBMITTAL.
- COORDINATE EXACT GRILLE, DIFFUSER AND ACCESS DOOR LAYOUT WITH LIGHTS AND SPRINKLERS.
- SUPPORT DUCTS TIGHT BELOW STRUCTURE WHEREVER POSSIBLE.
- PROVIDE ACOUSTICAL LINING IN ALL DUCTS WITHIN 15 FEET OF UNITS. PROVIDE FLEXIBLE CONNECTION ON INLET AND OUTLET DUCT CONNECTIONS TO EQUIPMENT.
- FLASHING AND WEATHERPROOFING AT EXTERIOR PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.
- FOR ROOF PENETRATIONS WITHOUT CURBS, PROVIDE WEATHERPROOF FLASHING PER SMACNA ARCHITECTURAL SHEET METAL MANUAL AND DRAWING NOTES.
- ALL TRANSITIONS IN DUCTWORK SHALL BE MADE AT 15 DEGREES MAXIMUM EACH FACE UNLESS OTHERWISE NOTED OR SPECIFICALLY APPROVED.
- ALL DUCTWORK IS CONCEALED UNLESS OTHERWISE NOTED.
- LABEL ALL PIECES OF EQUIPMENT WITH MARK MATCHING SCHEDULE OR EQUIPMENT LIST WITH ENGRAVED PLASTIC LABELS WITH MINIMUM 1/4" HIGH LETTERS. LABELS EXPOSED TO WEATHER SHALL BE ENGRAVED BRASS.
- PRIME AND PAINT ALL EXPOSED DUCTWORK PER ARCHITECTURAL SPECIFICATIONS. PAINT SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND CONTENT LIMITS: FLATS < 50 GRAMS PER LITER, NON-FLATS < 100 GRAMS PER LITER.
- THE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM(S) FOR THE BUILDING(S) WERE DESIGNED IN COMPLIANCE WITH THE LATEST EDITIONS OF THE CALIFORNIA CODES, STANDARDS AND REGULATIONS INCLUDING BUT NOT LIMITED TO CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA ENERGY CODE (CEC - TITLE 24, PART 6), AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE) AND SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA).

THE INDOOR AND OUTDOOR DESIGN CONDITIONS ARE THOSE ESTABLISHED FOR GILROY, CA BY ASHRAE AS FOLLOWS:

OUTDOOR CONDITIONS
 SUMMER: 93°F DB / 68°F WB
 WINTER: 28°F DB

INDOOR CONDITIONS
 SUMMER: 74°F DB ± 2°F
 WINTER: 70°F DB ± 2°F

IF THE OUTDOOR TEMPERATURES ARE HIGHER OR LOWER THAN DESIGN TEMPERATURES ESTABLISHED BY THE CALIFORNIA ENERGY CODE, THERE IS THE POTENTIAL THAT THE INSTALLED HVAC SYSTEM WILL NOT BE ABLE TO MAINTAIN THE DESIRED INDOOR TEMPERATURE. THE INCREASE OR DECREASE OF INDOOR TEMPERATURE COULD BE AS HIGH AS THE DIFFERENCE BETWEEN THE ACTUAL OUTDOOR TEMPERATURE AND THE DESIGN CONDITION.

- ALL DUCT MOUNTED SMOKE DETECTORS SHALL BE ADDRESSABLE TYPE AND COMPATIBLE WITH FIRE ALARM SYSTEM. DUCT SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED BY FIRE ALARM CONTRACTOR. ENTIRE SYSTEM SHALL COMPLY WITH THE CALIFORNIA MECHANICAL CODE, THE CALIFORNIA FIRE CODE, AND THE NATIONAL FIRE PROTECTION ASSOCIATION.
- ADHESIVES, SEALANTS AND CAULKS USED INDOORS SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND LIMITS PER TITLE 24, PART 11, SECTION 5.504.
 - METAL TO METAL < 30 GRAMS PER LITER
 - FIBERGLASS < 80 GRAMS PER LITER
 - CONTACT ADHESIVE < 80 GRAMS PER LITER
 - MASTICS < 100 GRAMS PER LITER
 - ZINC-RICH PRIMERS < 340 GRAMS PER LITER
 - FIRE RESISTANT COATINGS < 350 GRAMS PER LITER
- AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENTS OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC OR SHEET METAL TO PROTECT THE AIR DISTRIBUTION SYSTEM FROM CONTAMINATION WITH DUST AND DEBRIS.

GENERAL NOTES:

*PER CBC 714.3.1.2, ALL PIPE PENETRATIONS THROUGH 1-HOUR FIRE BARRIERS SHALL INCLUDE LISTED AND APPROVED FIRE STOP ASSEMBLIES TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479.

LIST OF GOVERNING CODES:

- 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
- TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

SCOPE OF WORK:

PROVIDE NEW HVAC SYSTEM FOR WINERY PROCESSES, COMMERCIAL KITCHEN VENTILATION EQUIPMENT, AND ENVIRONMENTAL COMFORT FOR NON-PROCESS SPACES, ADEQUATE TO MEET APPROPRIATE TITLE 24 REQUIREMENTS. SYSTEMS COOLING AND HEATING PROVIDED BY CENTRAL CHILLER AND BOILER PLANT REFERENCED IN PROCESS DRAWINGS.

DRAWING INDEX	
SHEET #	SHEET NAME
M0.01	LEGENDS & NOTES - HVAC
M0.02	SPECIFICATIONS - HVAC
M0.03	SCHEDULES - MECHANICAL
M2.1A	PARTIAL 1ST FLOOR PLAN - HVAC
M2.1B	PARTIAL 1ST FLOOR PLAN - HVAC
M2.20	2ND FLOOR PLAN - HVAC
M2.30	ROOF PLAN - HVAC
M5.01	CAPTIVEAIRE DWGS - KITCHEN HVAC
M5.02	CAPTIVEAIRE DWGS - KITCHEN HVAC
M5.03	CAPTIVEAIRE DWGS - KITCHEN HVAC
M5.04	CAPTIVEAIRE DWGS - KITCHEN HVAC
M5.05	CAPTIVEAIRE DWGS - KITCHEN HVAC
M6.01	DETAILS - MECHANICAL
M7.01	TITLE 24 REPORT
M7.02	TITLE 24 REPORT
M7.03	TITLE 24 REPORT
M7.04	TITLE 24 REPORT
M7.05	TITLE 24 REPORT

HVAC LEGEND				
SYMBOL	ABBREV.	IDENTIFICATION	ABBREV.	IDENTIFICATION
		AIR DUCT	FT	FEET
		FLEXIBLE AIR DUCT	FT HD	FEET HEAD
		UNDER GROUND AIR DUCT	FTR	FLUE THRU ROOF
	BD	BALANCING DAMPER	GPM	GALLONS PER MINUTE
		AIR FROM DEVICE	GALV	GALVANIZED
		AIR TO DEVICE	GA	GAUGE
		SECTION THROUGH SUPPLY	GC	GENERAL CONTRACTOR
		SECTION THROUGH RETURN	HP	HORSEPOWER
		SECTION THROUGH EXHAUST	HR	HOUR
	TSTAT	THERMOSTAT	HTG	HEATING
		TEMPERATURE SENSOR	HZ	HERTZ
		SPIN-IN EXTRACTOR/DAMPER	ID	INSIDE DIAMETER
	HWS	HEATING WATER SUPPLY	IN	INCH
	HWR	HEATING WATER RETURN	INT	INTERIOR
	CWS	COOLING WATER SUPPLY	KW	KILOWATTS
	CWR	COOLING WATER RETURN	LAT	LEAVING AIR TEMPERATURE
	CHWS	CHILLED WATER SUPPLY	LBS	POUNDS
	CHWR	CHILLED WATER RETURN	LG	LONG
	F/D	VERTICAL FIRE DAMPER	LRA	LOCKED ROTOR AMPS
	F/D	HORIZONTAL FIRE DAMPER	LVG	LEAVING
	F/SD	VERTICAL FIRE/SMOKE DAMPER	LWT	LEAVING WATER TEMPERATURE
	F/SD	HORIZONTAL FIRE/SMOKE DAMPER	LWB	LEAVING WET BULB
	BT	BYPASS TIMER	MAX	MAXIMUM
	SW	SWITCH	MBH	1000 BTU PER HOUR
		CENTERLINE	MC	MECHANICAL CONTRACTOR
	P.O.C.	POINT OF CONNECTION	MCA	MINIMUM CIRCUIT AMPS
	&	AND	MCC	MOTOR CONTROL CENTER
	@	AT	MCP	MECHANICAL CONTROL PANEL
	°F	DEGREES FAHRENHEIT	MECH	MECHANICAL
	AC	AIR CONDITIONER	MFR	MANUFACTURER
	AC/H	AIR CHANGES PER HOUR	MIN	MINIMUM
	AF	ABOVE FINISH FLOOR	MOCP	MAXIMUM OVERCURRENT PROTECTION
	AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	(N)	NEW
	AGGR	AGGREGATE	NC	NORMALLY CLOSED
	AL	ACOUSTICALLY LINED	NIC	NOT IN CONTRACT
	AMB	AMBIENT	NO	NORMALLY OPEN
	AMP	AMPERE	NTS	NOT TO SCALE
	APPROX	APPROXIMATE	OA	OUTSIDE AIR
	ARCH	ARCHITECT/ARCHITECTURAL	OBD	OPPOSED BLADE DAMPER
	BDD	BACKDRAFT DAMPER	OC	ON CENTER
	BHP	BRAKE HORSEPOWER	OD	OUTSIDE DIAMETER
	BJ	BETWEEN JOISTS	OV	OUTLET VELOCITY
	BLDG	BUILDING	PC	PLUMBING CONTRACTOR
	BTUH	BRITISH THERMAL UNITS PER HOUR	PD	PRESSURE DROP
	CA	COMBUSTION AIR	PH	PHASE
	CFM	CUBIC FEET PER MINUTE	P/N	PART NUMBER
	CIRC	CIRCULATING	PRESS	PRESSURE
	CLG	CEILING	PSI	POUNDS PER SQUARE INCH
	CONC	CONCRETE	P/T	PRESSURE/TEMPERATURE
	CONN	CONNECTION	QTY	QUANTITY
	CONT	CONTINUED, CONTINUATION	RA	RETURN AIR
	COOL	COOLING	REQD	REQUIRED
	COORD	COORDINATE	REQS	REQUIREMENTS
	COP	COEFFICIENT OF PERFORMANCE	RLA	RATED/RUNNING LOAD AMPS
	CONST	CONSTRUCTION	RM	ROOM
	CV	COEFFICIENT OF FLOW	RPM	REVOLUTIONS PER MINUTE
	DB	DRY BULB	SA	SUPPLY AIR
	DG	DOOR GRILLE	SC	SENSIBLE COOLING
	D/L	DOOR LOUVER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
	DN	DOWN	SM	SHEETMETAL
	DWGS	DRAWINGS	SOV	SHUT-OFF VALVE
	(E)	EXISTING	SP	STATIC PRESSURE
	EA	EXHAUST AIR	SPEC	SPECIFICATION
	EAT	ENTERING AIR TEMPERATURE	SQ	SQUARE
	EC	ELECTRICAL CONTRACTOR	STD	STANDARD
	EER	ENERGY EFFICIENCY RATIO	STRUCT	STRUCTURAL
	EF	EXHAUST FAN	STSL	STAINLESS STEEL
	ELEC	ELECTRICAL	TC	TIME CLOCK/TOTAL COOLING
	ELEV	ELEVATION	TDH	TOTAL DYNAMIC HEAD
	EMBT	EMBEDMENT	TEMP	TEMPERATURE
	ENT	ENTERING	TSP	TOTAL STATIC PRESSURE
	EQUIP	EQUIPMENT	TV	TURNING VANES
	ESP	EXTERNAL STATIC PRESSURE	TYP	TYPICAL
	EWB	ENTERING WET BULB	UCD	UNDERCUT DOOR
	EWT	ENTERING WATER TEMPERATURE	UL	UNDERWRITER'S LABORATORIES
	EXP	EXPANSION	UN	UNLESS OTHERWISE NOTED
	EXT	EXTERIOR	V	VOLT
	FFE	FINISHED FLOOR ELEVATION	W/	WITH
	FLA	FULL LOAD AMPS	WB	WET BULB
	FLEX	FLEXIBLE	WC	WATER COLUMN
	FLR	FLOOR	WM	WASHING MACHINE
	FPM	FEET PER MINUTE	WT	WEIGHT



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MOOSE MOUNTAIN WINERY

3210 PASEO VISTA AVE.
 SAN MARTIN, CA 95046

REVISION SCHEDULE

PERMIT ISSUE 12/11/2023

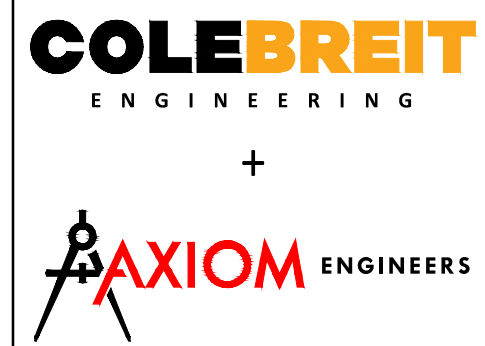
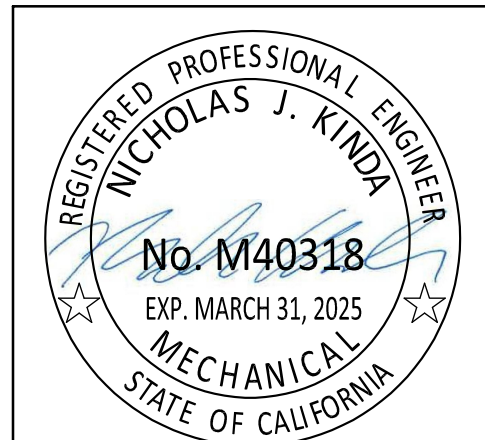
DATE: 12/11/2023

JOB NUMBER: 20230736

LEGEND AND NOTES - MECHANICAL HVAC

SHEET NUMBER

M0.01



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SPECIFICATIONS -
MECHANICAL HVAC

SHEET NUMBER

MO.02

HVAC MECHANICAL SPECIFICATION:

GENERAL

CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS IN CONNECTION WITH THIS WORK.

THIS WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES, 2022 CALIFORNIA BUILDING CODE, 2022 CALIFORNIA MECHANICAL CODE, 2016 CALIFORNIA PLUMBING CODE, 2022 CALIFORNIA ENERGY CODE, THE 2022 CALIFORNIA GREEN BUILDING STANDARDS AND ALL REFERENCED STANDARDS WITHIN.

WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.

ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, HANGERS, INSERTS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. ALL MATERIAL, WORK, INCIDENTAL ACCESSORIES OR OTHER DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

IF ANY DISCREPANCIES APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, THE CONTRACTOR SHALL WITHIN TEN (10) DAYS AFTER RECEIVING SUCH DOCUMENTS NOTIFY THE ENGINEER AND ARCHITECT IN WRITING OF SUCH DISCREPANCIES. IN THE EVENT OF THE CONTRACTOR'S FAILURE TO GIVE SUCH NOTICE, THE COST OF RECTIFYING SAME, SHALL BE BORNE BY THIS CONTRACTOR.

INSTALL WORK IN A NEAT WORKMANLIKE MANNER READILY ACCESSIBLE FOR OPERATION AND MAINTENANCE.

STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION NOT SPECIFICALLY PROVIDED BY OTHERS BUT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS. COORDINATE REQUIREMENTS WITH OTHER TRADES.

CONTRACTOR SHALL PROVIDE GUARANTEE OF ONE YEAR ON WORKMANSHIP AND MATERIALS FROM DATE OF OWNER ACCEPTANCE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION BETWEEN THE OTHER DIVISIONS AND TRADES OF THE CONTRACT. ITEMS FURNISHED UNDER ONE DIVISION OR TRADE AND REQUIRING WORK UNDER ANOTHER DIVISION OR TRADE IS PART OF THE CONTRACT.

PROVIDE TEMPORARY FILTERS ON ALL AIR EQUIPMENT DURING CONSTRUCTION. REPLACE WITH NEW FINAL FILTERS WHEN CONSTRUCTION IS COMPLETE. DUCTING SHALL BE APPROPRIATELY COVERED TO PREVENT DUST AND DEBRIS INTRUSION DURING CONSTRUCTION.

SUBMITTALS

WITHIN 15 DAYS AFTER SIGNING A CONTRACT, PROVIDE SUBMITTALS ON ALL MECHANICAL EQUIPMENT WITHIN THIS SECTION.

PROVIDE SHOP DRAWINGS OF ALL MECHANICAL LAYOUTS SHOWING EQUIPMENT, DUCTWORK, REGISTERS, PIPING, FILTER RACKS, CONTROL DAMPERS, LIGHTS, ACCESS PANELS AND ACCESS SPACES, ETC.. OBTAIN AND COORDINATE WITH APPROVED FIRE SPRINKLER PLUMBING, ELECTRICAL, CASE WORK AND OTHER TRADES SHOP DRAWINGS PRIOR TO MECHANICAL DRAWING SUBMITTAL.

SUBMIT APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

COORDINATION DRAWINGS

SHEETMETAL SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM THE ENGINEER EITHER "REVIEWED" OR "FURNISHED AS CORRECTED" PRIOR TO BEING USED AS A BASIS FOR COORDINATION DRAWINGS.

AFTER SHEETMETAL DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, COPIES SHALL BE SENT TO OTHER TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK.

MECHANICAL (HVAC) CONTRACTOR
PROCESS SYSTEMS CONTRACTOR
PLUMBING CONTRACTOR
ELECTRICAL CONTRACTOR
FIRE SPRINKLER CONTRACTOR

PRIOR TO INCLUSION OF SPRINKLER PIPING AND EQUIPMENT, THE SPRINKLER CONTRACTOR SHALL HAVE SUBMITTED APPROVED SPRINKLER PLANS AND CALCULATIONS.

AFTER ALL TRADES HAVE INCLUDED THEIR RESPECTIVE WORK ON THE COORDINATION DRAWINGS WITH NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS FOR ACCEPTANCE. ITEMS NOT SHOWN ON THE COORDINATION DRAWINGS IS THE RESPONSIBILITY OF THE OMITTING CONTRACTOR AND THE OMITTING CONTRACTOR SHALL BE SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHERS.

THE ARCHITECT AND ENGINEER ARE NOT PART OF THE CONTRACTORS COORDINATION PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE RELATIVE TO TO THE ACCEPTABILITY OF THE INSTALLATION. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

SUBMIT FINAL SIGNED COORDINATION DRAWINGS TO THE ENGINEER FOR REVIEW. ENGINEER WILL REVIEW FOR ACCEPTABILITY OF THE INSTALLATION.

ANY WORK FABRICATED OR INSTALLED IN CONFLICT PRIOR TO SIGN-OFF BY ALL TRADES SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH THE COORDINATION DRAWINGS.

EACH CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THEIR SUB-CONTRACTORS.

AS BUILT DRAWINGS

PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.

MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.

SUBMIT FOR REVIEW BOUND SETS OF THE AS-BUILT DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.

PROVIDE SHOP DRAWINGS OF ALL MECHANICAL LAYOUTS SHOWING EQUIPMENT, DUCTWORK, REGISTERS, PIPING, FILTER RACKS, CONTROL DAMPERS, LIGHTS, ACCESS PANELS AND ACCESS SPACES, ETC.. OBTAIN AND COORDINATE WITH APPROVED FIRE SPRINKLER, PLUMBING, ELECTRICAL, CASE WORK AND OTHER TRADES SHOP DRAWINGS PRIOR TO MECHANICAL DRAWING SUBMITTAL.

CONTRACTOR SHALL CONSULT AND OBTAIN DIRECTION OF STRUCTURAL ENGINEER ON STRUCTURAL SUPPORT OF ALL MECHANICAL EQUIPMENT AND SYSTEMS.

CUTTING OR CORING OF STRUCTURAL MEMBERS OR FOOTINGS IS PROHIBITED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE PROJECT STRUCTURAL ENGINEER.

HANGERS AND SUPPORT

SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL MECHANICAL EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH STATE AND FEDERAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT DUCTWORK, PIPING, EQUIPMENT AND TO KEEP IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERRECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.

PROVIDE ADDITIONAL SUPPORT FOR DUCTWORK PIPING AND EQUIPMENT WHEN STRUCTURE IS NOT CAPABLE OF SUPPORT.

EQUIPMENT & PIPING IDENTIFICATION

PROVIDE STANDARD LABELING MATERIALS AND LABELING COLOR CONVENTIONS. PROVIDE THE FOLLOWING:

FURNISH AND ATTACH TO EACH VALVE A 2" DIAMETER TAG OF SOLID BRASS WITH NUMBER AND SERVICE ABBREVIATED AS NOTED ON CONTRACT DRAWINGS. NUMBERS TO CORRESPOND TO CONSECUTIVE NUMBERS ON VALVE CHART IDENTIFYING EACH INDIVIDUAL VALVE. PROVIDE ONE VALVE CHART MOUNTED IN EACH MECHANICAL ROOM & ONE COPY TO THE OWNER.

IDENTIFY ALL EQUIPMENT BY A PERMANENTLY ATTACHED MINIMUM 1-1/2" X 3-1/2" NAMEPLATE OF WHITE CORE LAMINATED BAKE LITE WITH BLACK SURFACE AND INCISED LETTERS. INCLUDE THE EQUIPMENT IDENTIFICATION NUMBER, MANUFACTURERS NAME, SERIAL AND MODEL NUMBER, AND RATED CAPACITY.

DUCTWORK

ALL DUCTWORK SHALL BE UL 181 CLASS 1 AND IN ACCORDANCE WITH SMACNA MANUAL, AIRTIGHT AND SMOOTH, SECURELY FASTENED AND SUPPORTED. NET INSIDE SIZES ARE SHOWN.

RIGID DUCTWORK SHALL BE GALVANIZED STEEL IN CONFORMANCE WITH SMACNA MANUAL. 90 DEGREE ELBOWS SHALL HAVE TURNING VANES.

DUCT CONSTRUCTION, INCLUDING SHEET METAL THICKNESSES, SEAM AND JOINT CONSTRUCTION, REINFORCEMENTS, ELBOWS, TURNING VANES, AND HANGERS AND SUPPORTS, SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" LATEST EDITION, AND PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA BASED ON PRESSURE & LEAKAGE CLASSES INDICATED BELOW.

- PRESSURE CLASS:
- A. SUPPLY DUCTS (EXCEPT IN MECHANICAL ROOMS): 1-INCH WG.
 - B. SUPPLY DUCTS (UPSTREAM FROM AIR TERMINAL UNITS): 4-INCH WG.
 - C. SUPPLY DUCTS (DOWNSTREAM FROM AIR TERMINAL UNITS): 2-INCH WG.
 - D. SUPPLY DUCTS (IN MECHANICAL EQUIPMENT ROOMS): 2-INCH WG.
 - E. RETURN DUCTS (NEGATIVE PRESSURE): 1-INCH WG.
 - F. EXHAUST DUCTS (NEGATIVE PRESSURE): 1-INCH WG.

- LEAKAGE CLASS:
- A. ROUND SUPPLY-AIR DUCT: 3 CFM/100 SQ. FT. AT 1-INCH WG.
 - B. FLAT-OVAL SUPPLY-AIR DUCT: 3 CFM/100 SQ. FT. AT 1-INCH WG.
 - C. RECTANGULAR SUPPLY-AIR DUCT: 6 CFM/100 SQ. FT. AT 1-INCH WG.
 - D. FLEXIBLE SUPPLY-AIR DUCT: 6 CFM/100 SQ. FT. AT 1-INCH WG.

COORDINATE EXACT REGISTER GRILLE, DIFFUSER AND ACCESS DOOR LAYOUT WITH LIGHTS, SPRINKLERS AND THE ARCHITECTURAL REFLECTED CEILING PLAN.

PROVIDE FLASHING AND WEATHERPROOFING AT EXTERIOR PENETRATIONS.

FOR ROOF PENETRATIONS WITHOUT CURBS, PROVIDE WEATHERPROOF FLASHING PER SMACNA ARCHITECTURAL SHEET METAL MANUAL.

ALL TRANSITIONS IN DUCTWORK SHALL BE MADE AT 15 DEGREES MAXIMUM EACH FACE UNLESS OTHERWISE NOTED OR SPECIFICALLY APPROVED.

ALL DUCTWORK IS CONCEALED UNLESS OTHERWISE NOTED.

PRIME AND PAINT ALL EXPOSED DUCTWORK.

DURING SITE STORAGE AND INSTALLATION, ALL DUCT AND HVAC EQUIPMENT OPENINGS SHALL BE COVERED TO REDUCE THE AMOUNT OF DUST AND DEBRIS COLLECTING INSIDE THE SYSTEM.

MAKE CONNECTIONS TO EQUIPMENT WITH FLEXIBLE CONNECTORS OF FLAME-RETARDANT OR NONCOMBUSTIBLE MATERIAL. MANUFACTURERS; DUCTMATE INDUSTRIES, INC., DURO DYNE INC., VENTFABRICS, INC., WARD INDUSTRIES, INC.; A DIVISION OF HART & COOLEY, INC.

VOLUME DAMPERS-GALVANIZED STEEL, PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS, LATEST EDITION, PROVIDE AXLES FULL LENGTH OF DAMPER BLADES AND BEARINGS AT BOTH ENDS OF OPERATING SHAFT. PROVIDE ADJUSTABLE VOLUME DAMPERS ON EACH AIR OUTLET.

SEAL OPENING AROUND DUCTS THROUGH WALLS WITH MINERAL WOOL OR OTHER NON-COMBUSTIBLE MATERIAL. SEAL ALL PENETRATIONS THROUGH FIRE SEPARATION WITH AN APPROVED UL LISTED ASSEMBLY AND FIRE STOPPING MATERIALS.

CONSTRUCT FLEXIBLE CONNECTIONS OF NEOPRENE-COATED FLAMEPROOF FABRIC CRIMPED INTO DUCT FLANGES FOR ATTACHMENT TO DUCT AND EQUIPMENT. FLEXIBLE DUCT SHALL BE CONSTRUCTED OF TWO-PLY LAMINATE MECHANICALLY CORRUGATED BONDED ALUMINUM INNER CORE COVERED BY ONE INCH THICK FIBERGLASS INSULATION OF ONE POUND DENSITY. FIBERGLASS SHALL BE COVERED WITH A 2.5 MIL POLYETHYLENE VAPOR BARRIER. FLEXIBLE DUCT SHALL MEET THE LATEST REQUIREMENTS OF UL STANDARD 181, CLASS 1, FLEXIBLE AIR DUCT. DUCT TO BE RATED FOR 10 INCHES POSITIVE OR NEGATIVE PRESSURE. MANUFACTURERS; FLEXMASTER U.S.A., INC., MCGILL AIRFLOW LLC, WARD INDUSTRIES, INC.; A DIVISION OF HART & COOLEY, INC.

DUCT LINING SHALL BE OWENS-CORNING "AREOFLEX" OR DUCT LINER BOARD INSTALLED WITH CLIPS AND 100% COVERAGE OF ADHESIVE ACCORDING TO TO MANUFACTURER'S INSTRUCTIONS. DUCTWORK SHALL HAVE 1" MINIMUM INSULATION.

SUPPORT DUCTS TIGHT BELOW STRUCTURE WHEREVER POSSIBLE.

PROVIDE ACOUSTICAL LINING IN ALL DUCTS WITHIN 15 FEET OF EQUIPMENT. PROVIDE FLEXIBLE CONNECTION ON INLET AND OUTLET DUCT CONNECTIONS TO EQUIPMENT.

LABEL ALL PIECES OF EQUIPMENT WITH MARK MATCHING SCHEDULE OR EQUIPMENT LIST WITH ENGRAVED PLASTIC LABELS WITH MINIMUM 1/4" HIGH LETTERS. LABELS EXPOSED TO WEATHER SHALL BE ENGRAVED BRASS.

DUCT LINING

DUCT LINING SHALL BE OWENS-CORNING "AREOFLEX" OR DUCT LINER BOARD INSTALLED WITH CLIPS AND 100% COVERAGE OF ADHESIVE ACCORDING TO MANUFACTURER'S INSTRUCTIONS. DUCTWORK SHALL HAVE 1" MINIMUM INSULATION AND CONFORM WITH CALIFORNIA CEC TITLE 24 REQUIREMENTS.

REFER TO "HVAC DUCT INSULATION" SCHEDULE FOR APPLICATIONS & VALUES.

ANTIMICROBIAL EROSION-RESISTANT COATING: APPLY TO THE SURFACE OF THE LINER THAT WILL FORM THE INTERIOR SURFACE OF THE DUCT TO ACT AS A MOISTURE REPELLENT AND EROSION-RESISTANT COATING. ANTIMICROBIAL COMPOUND SHALL BE TESTED FOR EFFICACY BY AN NRTL AND REGISTERED BY THE EPA FOR USE IN HVAC SYSTEMS.

SOLVENT, WATER-BASED LINER ADHESIVE: COMPLY WITH NFPA 90A OR NFPA 90B AND WITH ASTM C 916.

DUCT INSULATION

COMPLY WITH THE REQUIREMENTS OF THE CURRENT CALIFORNIA ENERGY CODE AND CALIFORNIA MECHANICAL CODE.

PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.

PIPING

REFER TO SCHEDULE FOR PIPE MATERIALS.

PIPE JOINT CONSTRUCTION

REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS. BEVEL PLAIN ENDS OF STEEL PIPE. REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPE AND FITTINGS BEFORE ASSEMBLY.

SOLDERED JOINTS: APPLY ASTM B 813, WATER-FLUSHABLE FLUX, UNLESS OTHERWISE INDICATED. TO TUBE END. CONSTRUCT JOINTS ACCORDING TO ASTM B 828 OR CDA'S "COPPER TUBE HANDBOOK," USING LEAD-FREE SOLDER ALLOY COMPLYING WITH ASTM B 32.

BRAZED JOINTS: CONSTRUCT JOINTS ACCORDING TO AWS'S "BRAZING HANDBOOK," "PIPE AND TUBE" CHAPTER, USING COPPER-PHOSPHORUS BRAZING FILLER METAL COMPLYING WITH AWS A5.8.

THREADED JOINTS: THREAD PIPE WITH TAPERED PIPE THREADS ACCORDING TO ASME B1.20.1. CUT THREADS FULL AND CLEAN USING SHARP DIES. REAM THREADED PIPE ENDS TO REMOVE BURRS AND RESTORE FULL ID.

WELDED JOINTS: CONSTRUCT JOINTS ACCORDING TO AWS D10.12/D10.12M, USING QUALIFIED PROCESSES AND WELDING OPERATORS ACCORDING TO PART 1 "QUALITY ASSURANCE" ARTICLE.

FLANGED JOINTS: SELECT APPROPRIATE GASKET MATERIAL, SIZE, TYPE, AND THICKNESS FOR SERVICE APPLICATION. INSTALL GASKET CONCENTRICALLY POSITIONED. USE SUITABLE LUBRICANTS ON BOLT THREADS.

PIPING SPECIALTIES

Y-PATTERN STRAINERS:

BODY: ASTM A 126, CLASS B, CAST IRON WITH BOLTED COVER AND BOTTOM DRAIN CONNECTION. END CONNECTIONS: THREADED ENDS FOR NPS 2 AND SMALLER; FLANGED ENDS FOR NPS 2-1/2 AND LARGER. STRAINER SCREEN: UP TO 3", 1/16" MESH, 4" AND ABOVE, 1/8" MESH STARTUP STRAINER, AND PERFORATED STAINLESS-STEEL BASKET WITH 50 PERCENT FREE AREA. CWP RATING: 125 PSIG.

MANUAL AIR VENTS: MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS; PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: AMTROL, INC., ARMSTRONG PUMPS, INC., BELL & GOSSETT DOMESTIC PUMP; A DIVISION OF ITT INDUSTRIES, TACO.

BODY: BRONZE. INTERNAL PARTS: NONFERROUS. OPERATOR: SCREWDRIVER OR THUMBSCREW. INLET CONNECTION: NPS 1/2. DISCHARGE CONNECTION: NPS 1/8. CWP RATING: 150 PSIG. MAXIMUM OPERATING TEMPERATURE: 225 DEG F.

AUTOMATIC AIR VENTS: MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS; PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: AMTROL, INC., ARMSTRONG PUMPS, INC., BELL & GOSSETT DOMESTIC PUMP; A DIVISION OF ITT INDUSTRIES, TACO.

BODY: BRONZE OR CAST IRON., INTERNAL PARTS: NONFERROUS., OPERATOR: NON-CORROSIVE METAL FLOT. INLET CONNECTION: NPS 1/2. DISCHARGE CONNECTION: NPS 1/4. CWP RATING: 150 PSIG. MAXIMUM OPERATING TEMPERATURE: 240 DEG F.

EXPANSION JOINTS, GUIDES & ANCHORS:

INSTALL MANUFACTURED, NONMETALLIC EXPANSION JOINTS ACCORDING TO FSA'S "TECHNICAL HANDBOOK: NON-METALLIC EXPANSION JOINTS AND FLEXIBLE PIPE CONNECTORS."

INSTALL EXPANSION JOINTS OF SIZES MATCHING SIZE OF PIPING IN WHICH THEY ARE INSTALLED. INSTALL ALIGNMENT GUIDES TO ALLOW EXPANSION AND TO AVOID END-LOADING AND TORSIONAL STRESS.

INSTALL GUIDES ON PIPING ADJOINING PIPE EXPANSION FITTINGS AND LOOPS. ATTACH GUIDES TO PIPE AND SECURE TO BUILDING STRUCTURE.

INSTALL ANCHORS AT LOCATIONS TO PREVENT STRESSES FROM EXCEEDING THOSE PERMITTED BY ASME B31.9 AND TO PREVENT TRANSFER OF LOADING AND STRESSES TO CONNECTED EQUIPMENT.

PIPE HANGERS

REFER TO AND COMPLY WITH MSS-58 INSTALL THE FOLLOWING PIPE ATTACHMENTS:

- ADJUSTABLE STEEL CLEVIS HANGERS FOR INDIVIDUAL HORIZONTAL PIPING LESS THAN 20 FEET LONG.
- ADJUSTABLE ROLLER HANGERS AND SPRING HANGERS FOR INDIVIDUAL HORIZONTAL PIPING 20 FEET OR LONGER.
- PIPE ROLLER: MSS SP-58, TYPE 44 FOR MULTIPLE HORIZONTAL PIPING 20 FEET OR LONGER, SUPPORTED ON A TRAPEZE.
- SPRING HANGERS TO SUPPORT HORIZONTAL AND VERTICAL RUNS.

PROVIDE COPPER-CLAD HANGERS AND SUPPORTS FOR HANGERS AND SUPPORTS IN DIRECT CONTACT WITH COPPER PIPE.

TESTING AND BALANCING

PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM.

CUT INSULATION, PIPES, AND EQUIPMENT CABINETS FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY FOR TAB PROCEDURES.

AFTER TESTING AND BALANCING, PATCH PROBE HOLES WITH SAME MATERIAL AND THICKNESS.

MARK EQUIPMENT AND BALANCING DEVICES, INCLUDING: VALVE POSITION INDICATORS, AND SIMILAR CONTROLS AND DEVICES, WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIAL TO SHOW FINAL SETTINGS.

TAKE AND REPORT TESTING AND BALANCING MEASUREMENTS IN INCH-POUND (IP) UNITS.

FINAL BALANCING REPORT: PREPARE A CERTIFIED WRITTEN REPORT; TABULATE AND DIVIDE THE REPORT INTO SEPARATE SECTIONS FOR TESTED SYSTEMS AND BALANCED SYSTEMS.

INCLUDE A CERTIFICATION SHEET AT THE FRONT OF THE REPORT'S BINDER, SIGNED AND SEALED BY THE CERTIFIED TESTING AND BALANCING ENGINEER.

GUARANTEE

ALL WORKMANSHIP, EQUIPMENT, MATERIALS AND SYSTEMS SHALL BE GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION OR PUBLICATION BY ANY MEANS, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS. COLEBREIT ENGINEERING, LLC

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AIR HANDLERS table with columns: MARK, LOCATION, CFM, MIN OA, ESP, TSP, SUPPLY FAN (DIA, RPM, TYPE), COOLING COIL (TOTAL, SENSIBLE, EAT, LAT, EWT, LWT, ROWS, GPM, FLUID, MAX PD), HEATING COIL (SENSIBLE, EAT, LAT, EWT, LWT, ROWS, GPM, FLUID, MAX PD), ELECTRICAL (HP, BHP, V/PH, HZ, MCA, MOP), MAKE & MODEL, WT LBS, REMARKS.

- 1 DOUBLE WALL CONSTRUCTION W/ INSULATION.
2 UL LISTED TO COMPLY WITH NFPA 90A & CERTIFIED W/ AHRI STANDARD 430.
3 MOTOR IS BRUSHLESS DC (BLDC) ECM WITH INTEGRAL VFD FAN CONTROL.
4 PROVIDE W/ VARIABLE SPEED CONTROL FOR DCV W/ FIELD SUPPLIED CO2 SENSORS.
5 BOTTOM ACCESS FILTER W/ HINGED DOOR ACCESS FOR 2" MERV 13 FILTER.
6 HEATING COIL IN REHEAT POSITION.
7 PROVIDE W/ STAINLESS STEEL DRAIN PAN W/ OVERFLOW PIPED TO NOTICEABLE LOCATION.

MAKEUP AIR UNITS table with columns: MARK, LOCATION, CFM, MIN OA, ESP, TSP, SUPPLY FAN (DIA, RPM, TYPE), COOLING COIL (TOTAL, SENSIBLE, EAT, LAT, EWT, LWT, ROWS, GPM, FLUID, MAX PD), HEATING COIL (SENSIBLE, EAT, LAT, EWT, LWT, ROWS, GPM, FLUID, MAX PD), ELECTRICAL (HP, BHP, V/PH, HZ, MCA, MOP), MAKE & MODEL, WT LBS, REMARKS.

- 1 DOUBLE WALL CONSTRUCTION W/ INSULATION.
2 BOTTOM DISCHARGE / BOTTOM RETURN.
3 INTEGRAL VFD FAN CONTROL.
4 PROVIDE W/ ROOF CURB.
5 HEATING COIL IN PRE-HEAT POSITION.
6 HEATING COIL IN REHEAT POSITION.
7 PROPER RH TO BE MAINTAINED IN ZONE AT ALL TIMES. (*) LAT SHALL BE CONTROLLED BY DEWPOINT.
8 PROVIDE W/ MERV 13 FILTERS.
9 LISTED FOR INSTALLATION OUTDOORS.
10 PROVIDE W/ DCV DAMPERS AND ACTUATORS W/ FIELD SUPPLIED CO2 SENSORS.

OA REQUIREMENTS table with columns: ROOM, OCCUPANCY CATEGORY, AREA (FT2), PEOPLE, DCV CFM/FT2, CFM/FT2, MIN OA CFM, DCV, SERVED BY, NOTES.

- 1 PROVIDE DEMAND CONTROLLED VENTILATION DURING SCHEDULED ZONE OCCUPIED HOURS. INSTALL CO2 SENSOR AND CONTROLS TO INCREASE OA VOLUME WHEN CONCENTRATION INCREASES.
2 PROVIDE ZONE WITH OCCUPANCY SENSOR (LIGHT SWITCH) TO ALLOW ZONE CFM TO GO TO ZERO WHEN NO OCCUPANTS ARE IN ZONE DURING SCHEDULED OCCUPIED HOURS.

DUCT INSULATION SCHEDULE table with columns: CONDITIONS, DUCT R-VALUE, REMARKS.

AIR DISTRIBUTION table with columns: MARK, TYPE, SIZE, MAKE & MODEL, REMARKS.

- 1 PROVIDE W/ REMOTE ADJUSTABLE DAMPER ACCESSIBLE FOR TAB.

EXHAUST FANS table with columns: MARK, LOCATION SERVED, CFM, ESP, DBA, ELECTRICAL (HP/W, V/PH, FLA), FAN RPM, WT LBS, MAKE & MODEL, REMARKS.

- 1 DIRECT DRIVE MOTOR W/ INTEGRAL VFD FOR DCV USING CO2 SENSORS.
2 INTERLOCK FAN SPEED W/ MAU-3 FAN SPEED FOR BALANCED VENTILATION.
3 INTALL/MOUNT ON SIDEWALL PER MFR RECOMMENDATIONS AND DETAIL 7/M-6.01
4 SLOPE FAN SYSTEM INSTALLATION TO ALLOW MOISTURE TO DRAIN TO OUTSIDE OF BUILDING AND AWAY FROM FAN HOUSING.
5 FAN TO OPERATE CONTINUOUSLY DURING SCHEDULED OCCUPIED HOURS TO PROVIDE RELIEF FOR MINIMUM VENTILATION AIR INTO ZONE.
6 INTERLOCK HOOD FAN OPERATION W/ MAU-1 FOR BALANCED VENTILATION.
7 INTERLOCK FAN W/ MAU-2 OPERATION DURING HOSPITALITY EVENTS FOR BALANCED VENTILATION.
8 FAN SPEED SHALL MODULATE BASED ON LOCAL CO2 SENSOR CONCENTRATION.
9 INTERLOCK FAN W/ AHU-2/3 RESPECTIVE FAN OPERATION & CO2 SENSORS TO PROVIDE RELIEF WHEN INCREASED VENTILATION TO ZONE IS REQUIRED.

LOUVERS table with columns: MARK, SIZE H"xW", FREE AREA, TYPE, MATERIAL, MAKE & MODEL, REMARKS.

- 1 PROVIDE W/ WILDLIFE URBAN INTERFACE (WUI) MESH
2 PROVIDE W/ APPROPRIATE ACTUATOR, LINKAGE, & HARDWARE.
3 COATED STEEL AXEL TO PREVENT CORROSION. FINISH PER ARCHITECT.



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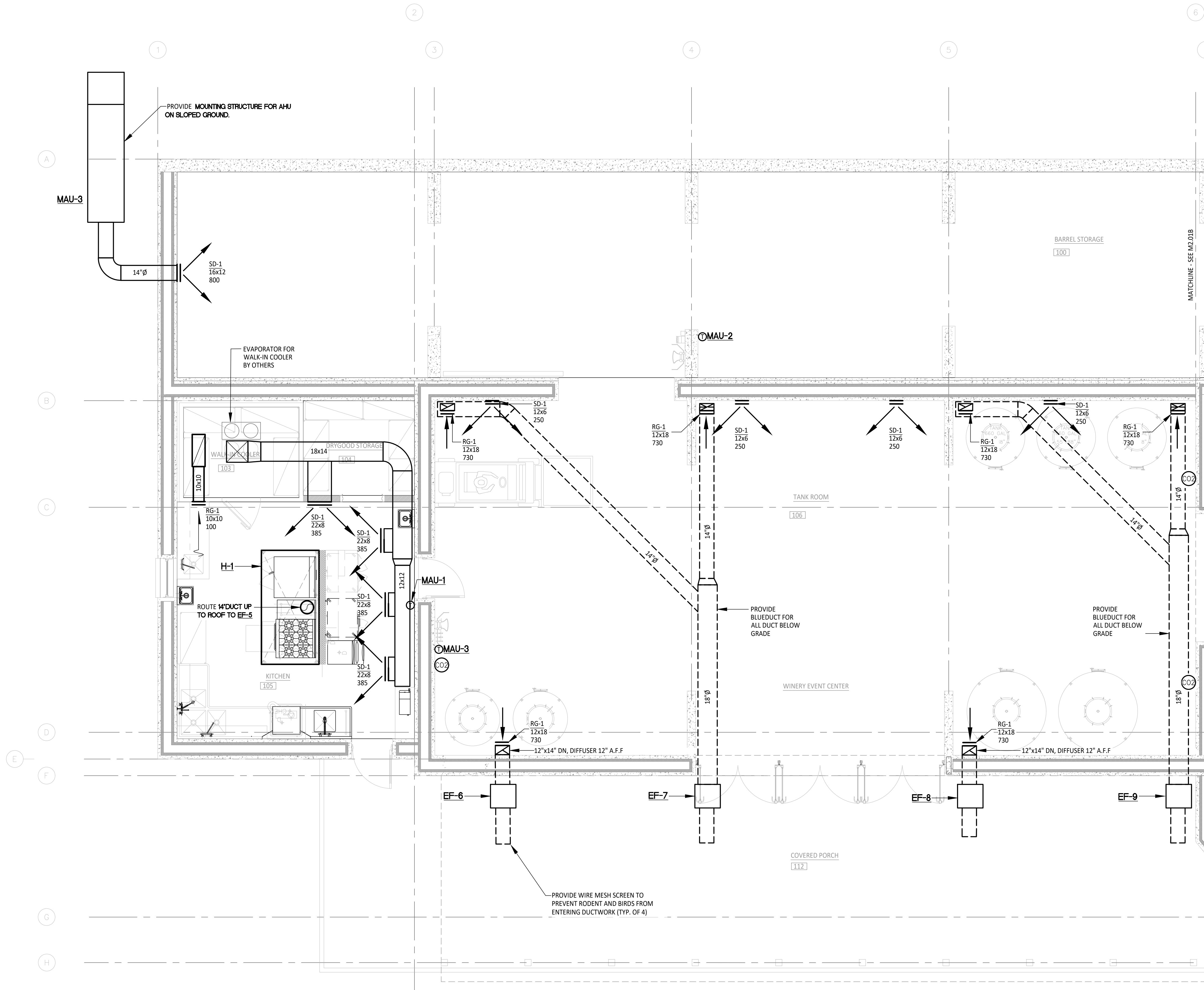
JOB NUMBER: 20230736

SCHEDULES - MECHANICAL

SHEET NUMBER

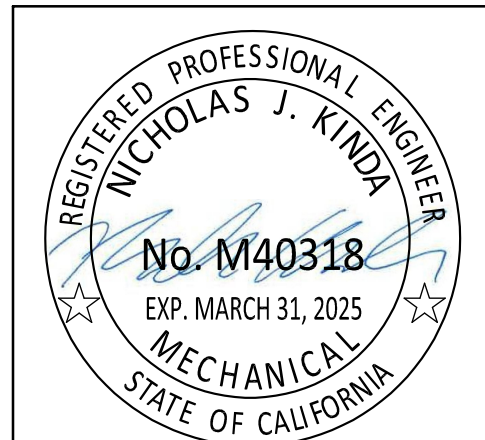
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FIRST FLOOR PLAN - MECHANICAL NORTH

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



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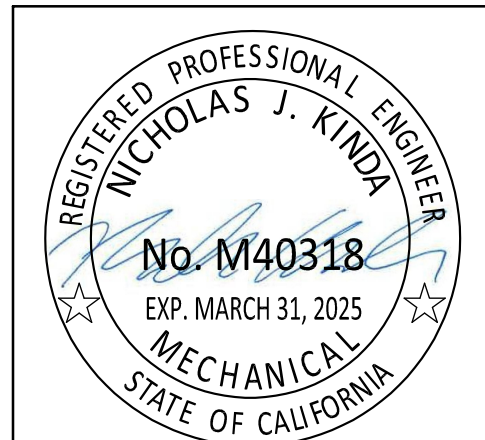
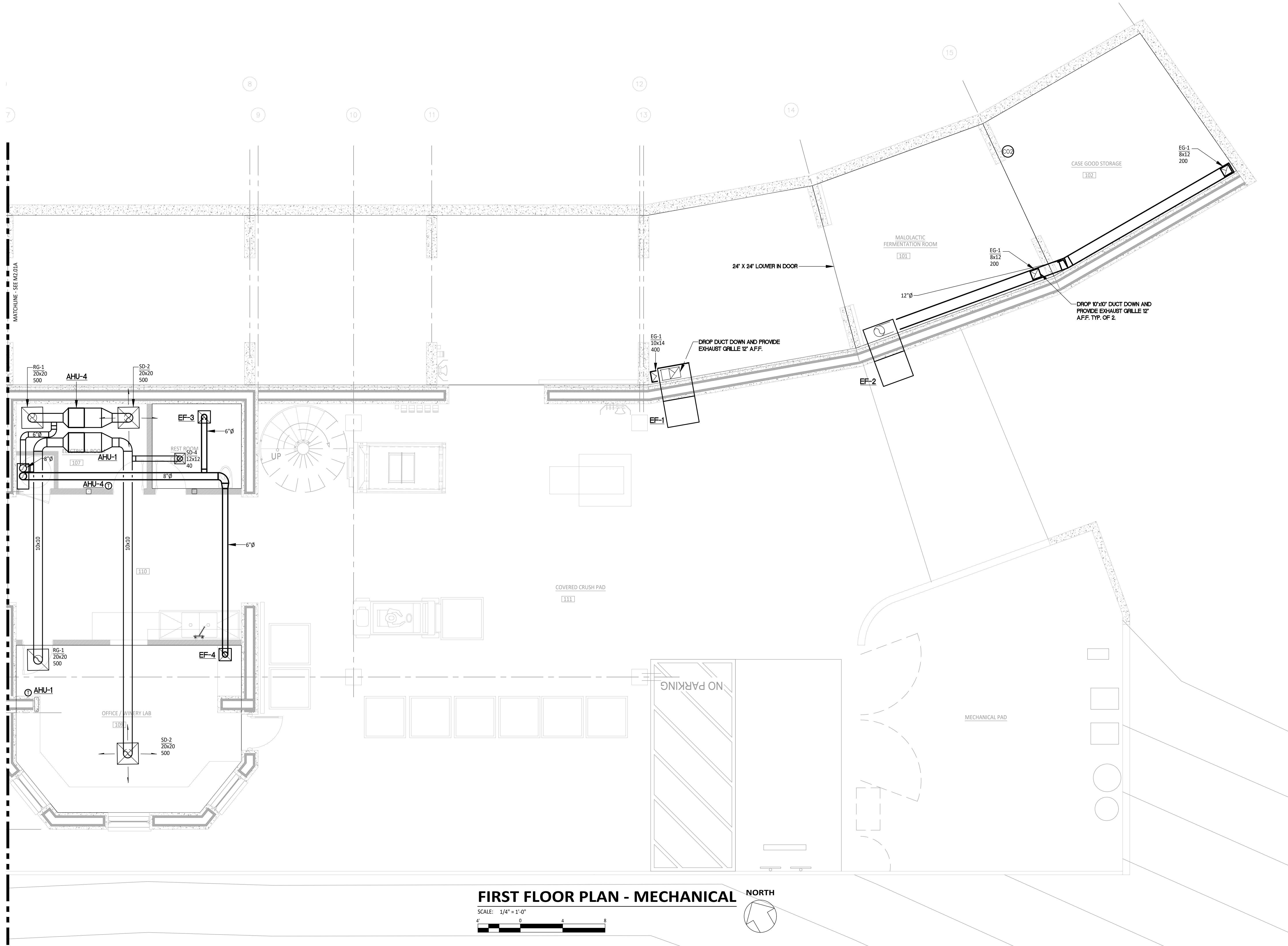
JOB NUMBER: 20230736

PARTIAL FIRST FLOOR PLAN - MECHANICAL

SHEET NUMBER

M2.1A

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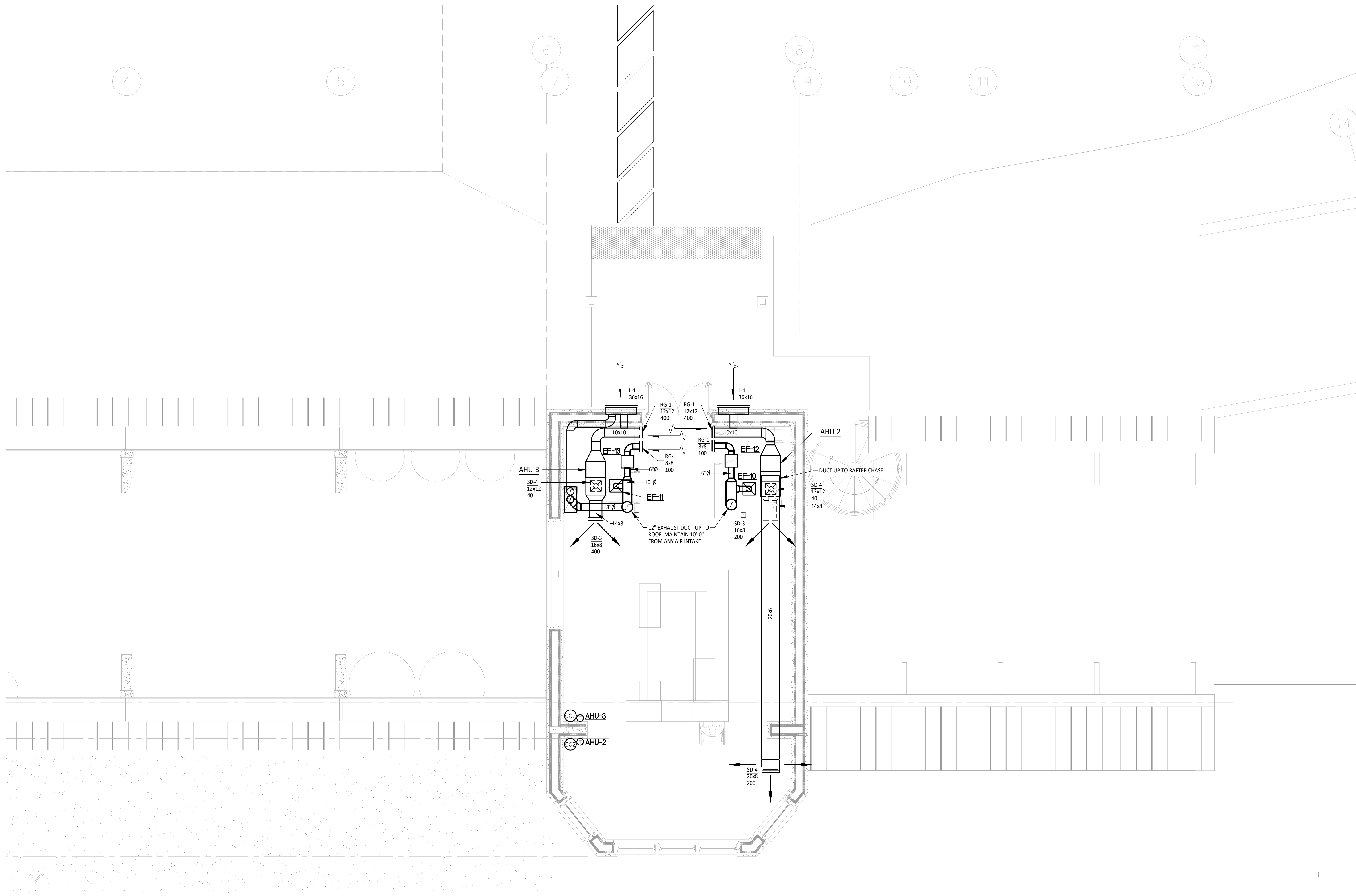
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FIRST FLOOR PLAN - MECHANICAL

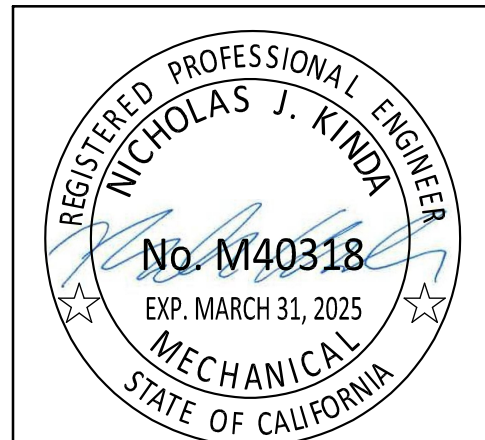
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M2.01B

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SECOND FLOOR PLAN - MECHANICAL NORTH
SCALE: 1/4" = 1'-0"
0 8 16



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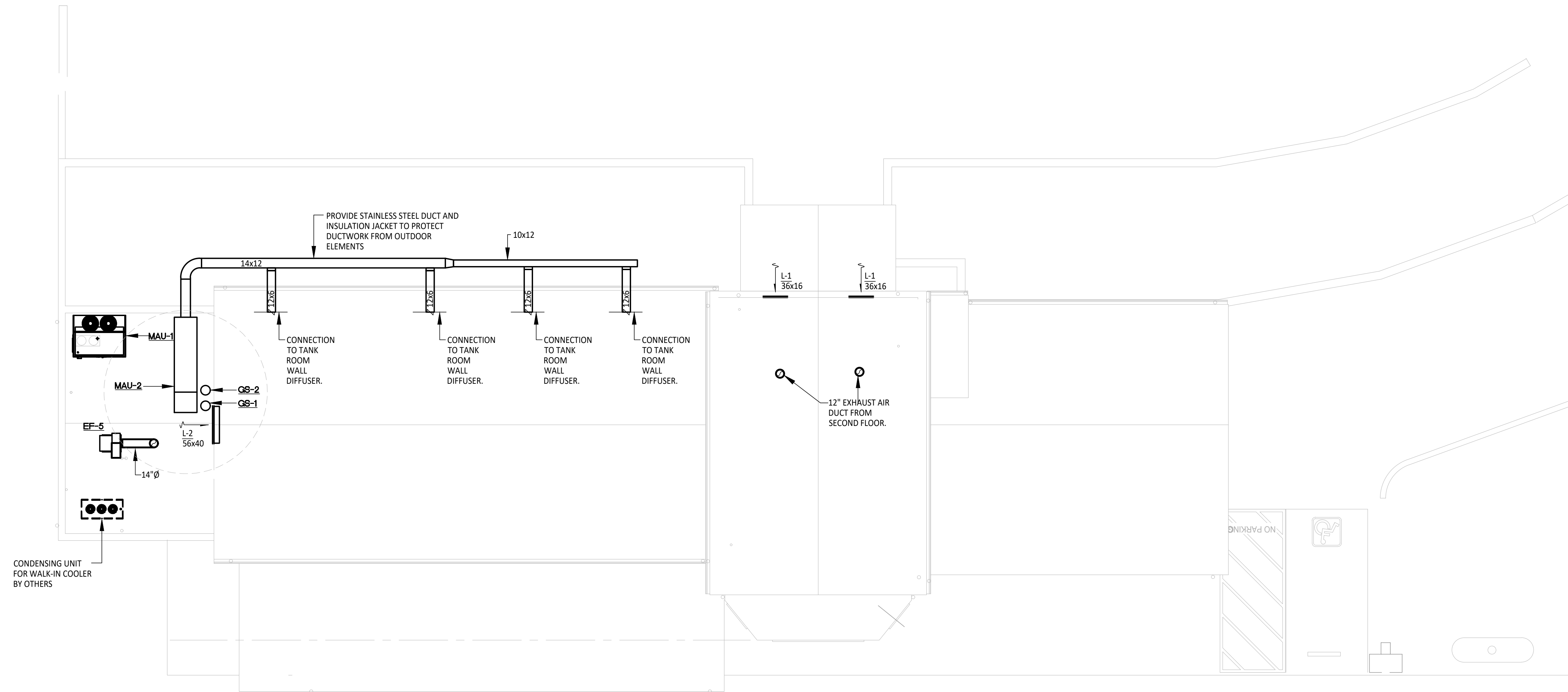
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2ND FLOOR PLAN - MECHANICAL

SHEET NUMBER

M2.02

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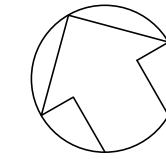


ROOF PLAN - MECHANICAL

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



NORTH



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ROOF PLAN - MECHANICAL

SHEET NUMBER

M2.30

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HOOD INFORMATION - JOB#6337347

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL		SP	END TO END	ROW
1	H-1	S424 ND-2	CAPTIVEAIRE	8' 10"	450 DEG	I	MEDIUM	175	1550			4'	12'	1550	1974	-0.982"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE			ELECTRICAL MODEL #	SWITCHES QUANTITY
1	H-1	CAPTRATE SOLD FILTER	6	16"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	781 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	H-1	RISER SENSOR INSTALL 6IN PLEN. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

EXHAUST FAN INFORMATION - JOB#6337347

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	EF-1	1	USB113DD-RM	CAPTIVEAIRE	1550	1.750	1813	ODP,PREMIUM	1.000	0.7920	3	208	3.1	1357 FPM	235	17.9

DOAS/RTU FAN SCHEDULE - JOB#6337347

FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	FAN INFORMATION										ELECTRICAL INFORMATION								CHILLED WATER INFORMATION								REHEAT INFORMATION				HOT WATER INFORMATION				NOTES
					BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MDCP	OUTSIDE AIR DB	OUTSIDE AIR WB	MIXED AIR DB	MIXED AIR WB	LEAVING AIR DB	LEAVING AIR WB	TOTAL	SENS.	ENT. FLUID TEMP	LEAV. FLUID TEMP	GPM	DISCHARGE DB	DISCHARGE WB	DESIRE	MAX	MOISTURE REMOVAL RATE	ENT. FLUID TEMP	LEAV. FLUID TEMP	GPM	TEMP RISE				
2	MAU-1	1	CASRTU1-13	CAPTIVEAIRE	I3P-1	0	1550	1550	854	0.500	1.50	3	208	6.9A	15A	89.0°F	66.0°F	89.0°F	66.0°F	51.6°F	50.4°F	69.6 MBH	63.4 MBH	45.0°F	55.0°F	13.9	-1.0°F	-1.0°F	9.6 MBH	0 MBH	1.0 LBS/HR	160.0°F	140.0°F	7.9	46.4°F	1,2,3,4,5,6,7			

NOTES:

- DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
- INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
- FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY
- SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
- FULLY MODULATING HOT GAS REHEAT
- 1" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-4.3 INSULATION-MINIMUM 24GA EXTERIOR W/ 18GA BASE
- SIDE DISCHARGE/NO RETURN

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	B113 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 14" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER
		1	UTILITY SET GREASE CUP
		1	B113 - 24" DISCHARGE EXTENSION
		1	B1 - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE
		1	B113 - INLET CONNECTION STANDARD 14" FLANGED GREASE DUCT
2	MAU-1	1	2 YEAR PARTS WARRANTY
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	2" MERV 13 FILTERS FOR RTU1 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU1 (QTY. 4)
		1	OVERHEAT STAT
		1	RTU FIXED 100% OA INTAKE CONTROL
		1	RTU1 NO RETURN - 100% OA
		1	REMOTE TEMPERATURE AND HUMIDITY SPACE SENSOR
		1	RTU1 SIDE DISCHARGE
		1	SIZE 1 RTU CHILLED WATER OPTION, PIPING THROUGH SIDE. MODULATING VALVES, ZONE VALVES, MIXING VALVES, EWT/LWT THERMOSTATS, AND FREEZE PROTECTION BY OTHERS. CUSTOM COIL
		1	SIZE 1 RTU HOT WATER OPTION, PIPING THROUGH SIDE. NOT COMPATIBLE WITH DX COOLING OPTIONS. MODULATING VALVES, ZONE VALVES, MIXING VALVES, EWT/LWT THERMOSTATS, AND FREEZE PROTECTION BY OTHERS. CUSTOM COIL
		1	OCCUPIED SCHEDULING
		1	RTU1 CURB DUCT HANGER
		1	120V FIRE INPUT
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
1	RTU1 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J BOX		
1	NO REHEAT		
1	UNIT MOUNTED VFD CONFIGURED FOR DCV		
1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT		

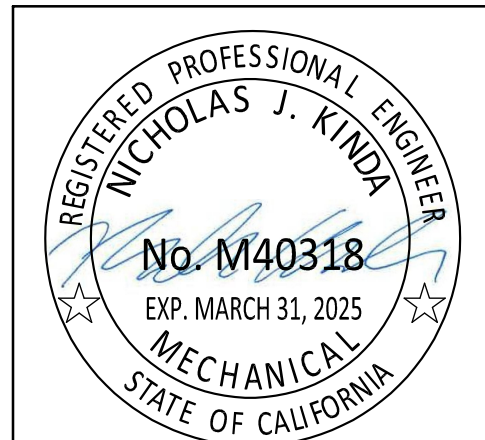
EQUIPMENT BY OTHERS

CURB ASSEMBLIES

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE
2	# 2	MAU-1	83 LBS	CURB	41.000"W X 71.000"L X 14.000"H INSULATED.

Operation of All CaptiveAire Equipment to be Verified by Factory Service Technician. Equipment Must be Operational and Fire System shall be Hooked-up and Armed. Report to be Sent to Customer by Manufacturer When Complete.

FOR QUESTIONS CALL:
ANDREW WYSOPAL
LOS ANGELES SALES OFFICE
REFERENCE JOB NUMBER
PHONE: 310.876.8505 REG61@CAPTIVEAIRE.COM



MOOSE MOUNTAIN WINERY

3210 PASEO VISTA AVE.
SAN MARTIN, CA 95046

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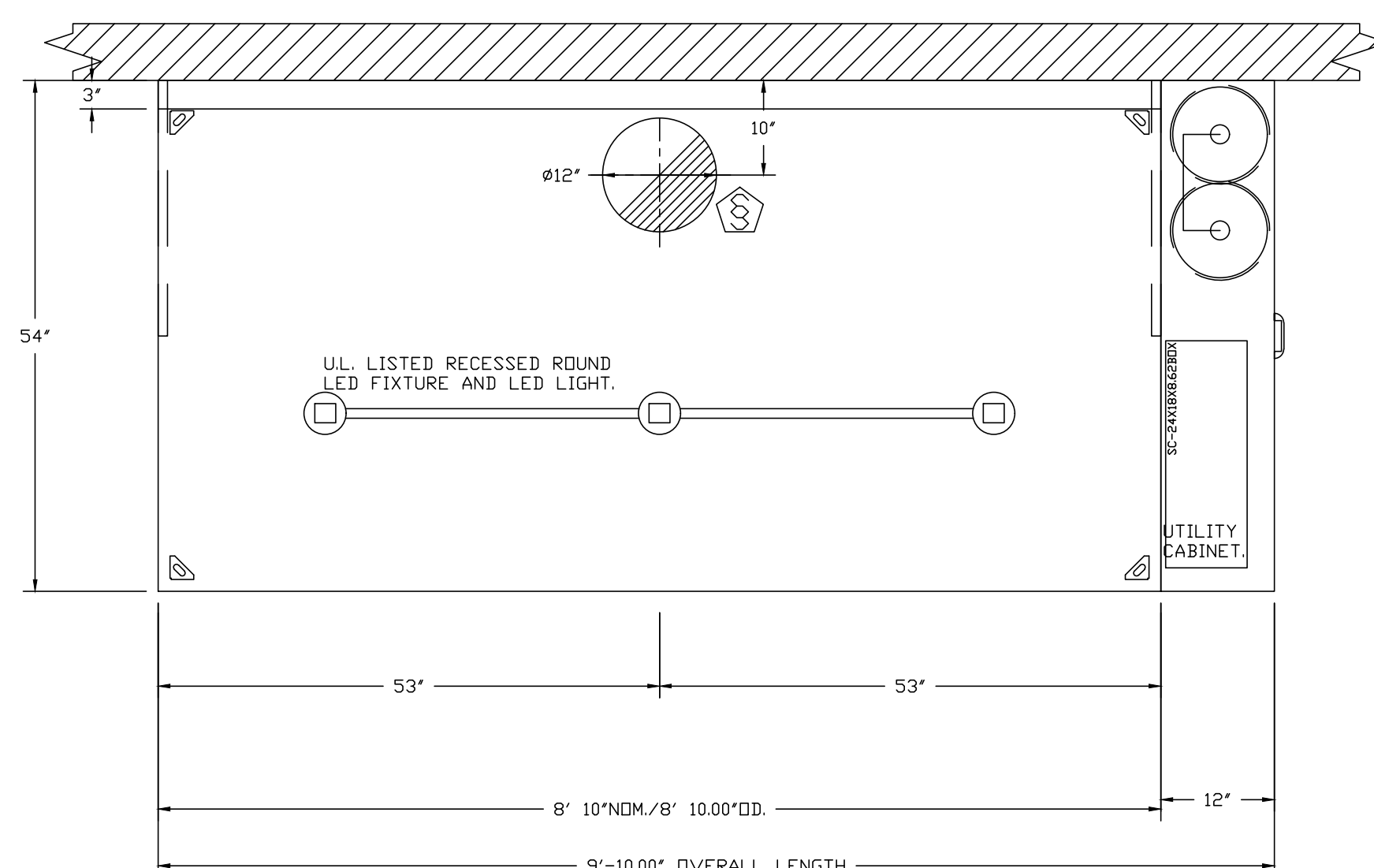
PIPING DIAGRAM - MECHANICAL

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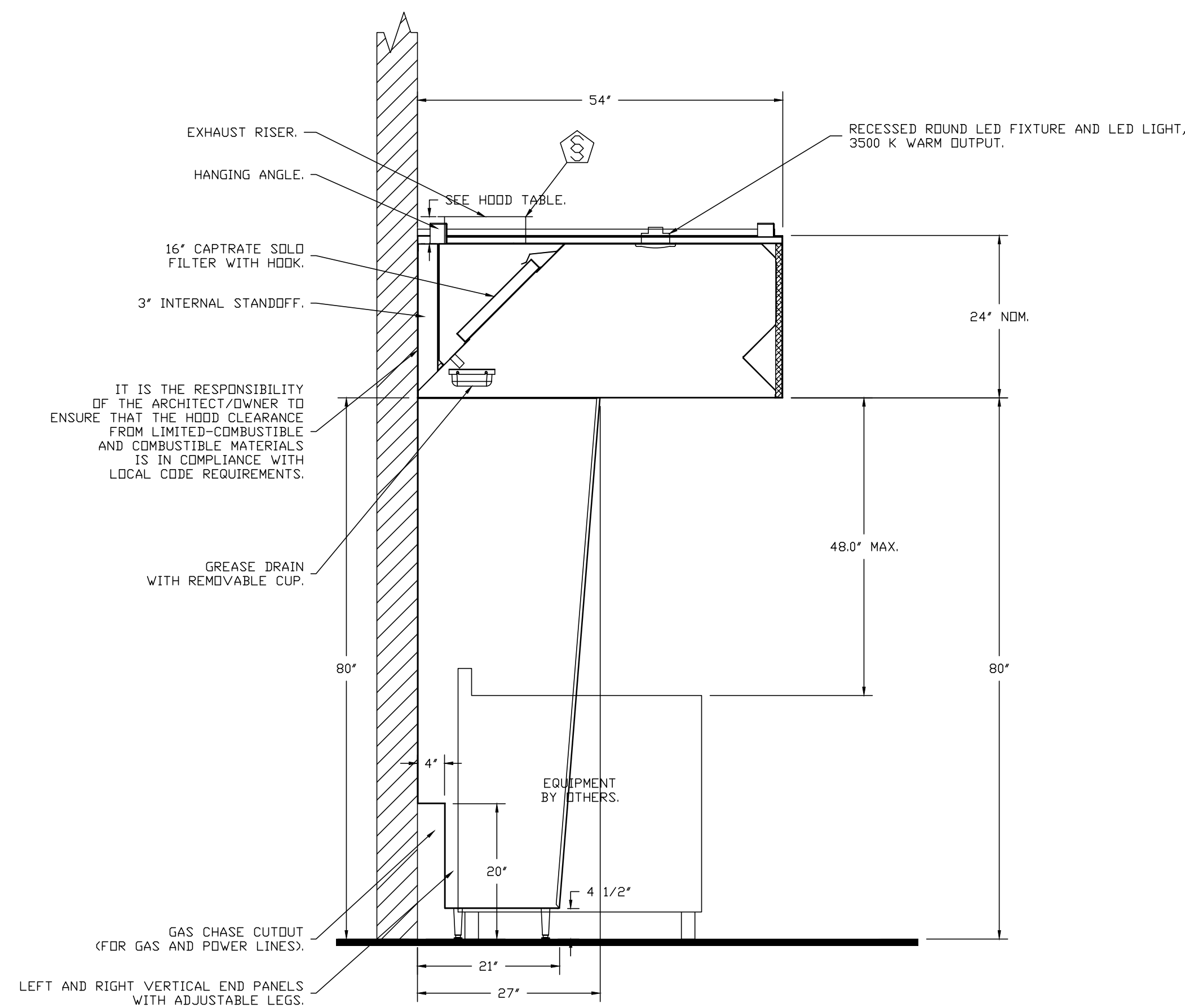
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EQUIPMENT BY OTHERS



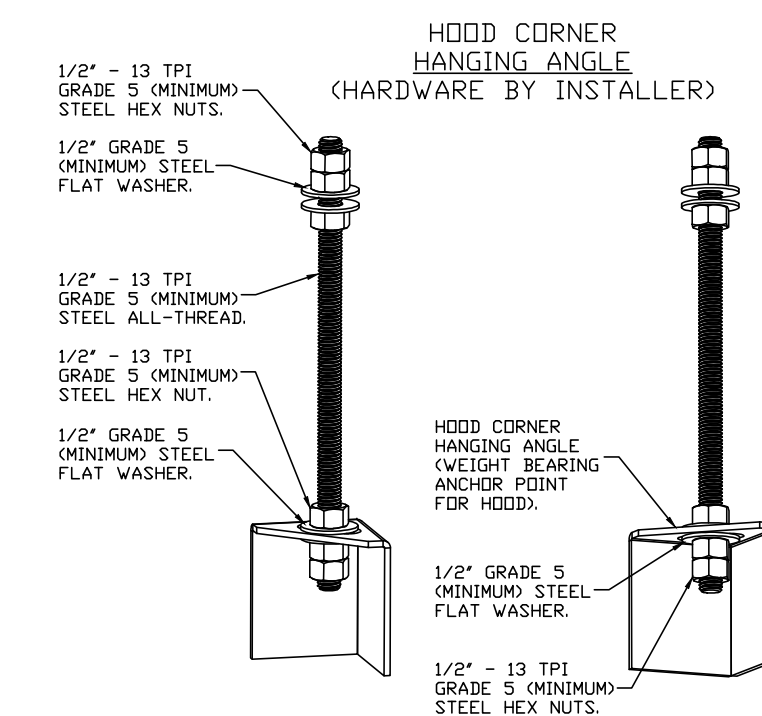
PLAN VIEW - HOOD #1 (H-1)
8' 10.00" LONG 5424ND-2



SECTION VIEW - MODEL 5424ND-2
HOOD - #1 (H-1)

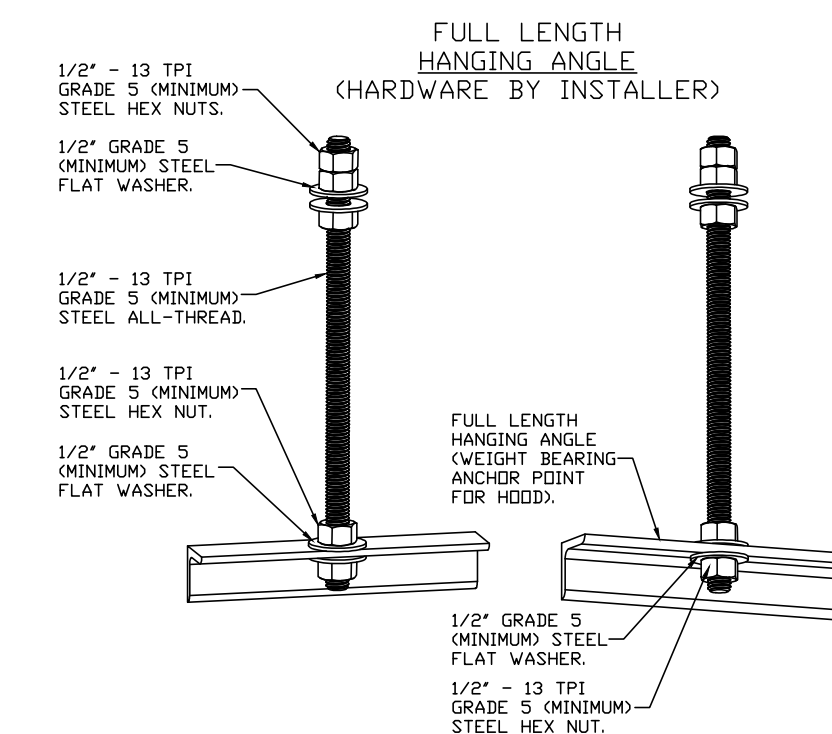
NOTE
ALL WALLS THAT COME WITHIN 18" OF THE HOOD MUST BE METAL STUD AND SHEETROCK.
IF WOOD STUDS FACTORY INSTALLED INSULATION REQUIRED, PLEASE ADVISE CAPTIVE AIR PRIOR TO FABRICATION.

NOTE- Exhaust Collar Must be Factory Installed. If A Different Size Or Location is Required, Please Note Change On Submittal.
Rear Discharge Is Available. Contact CaptiveAir For Possible Locations.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

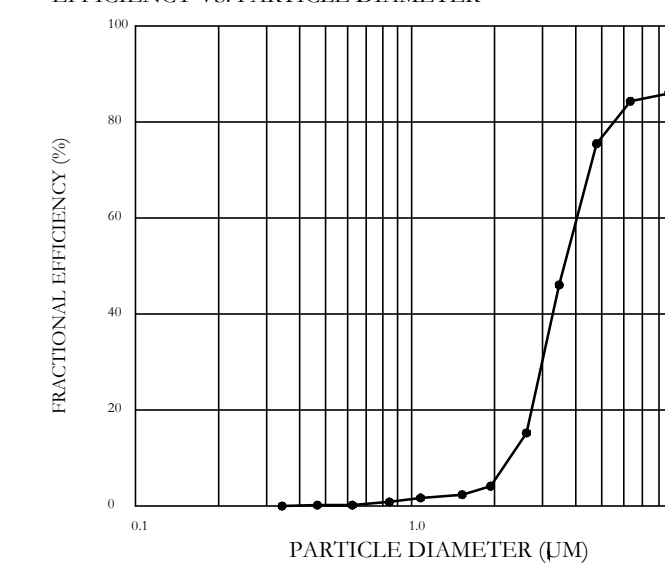
THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

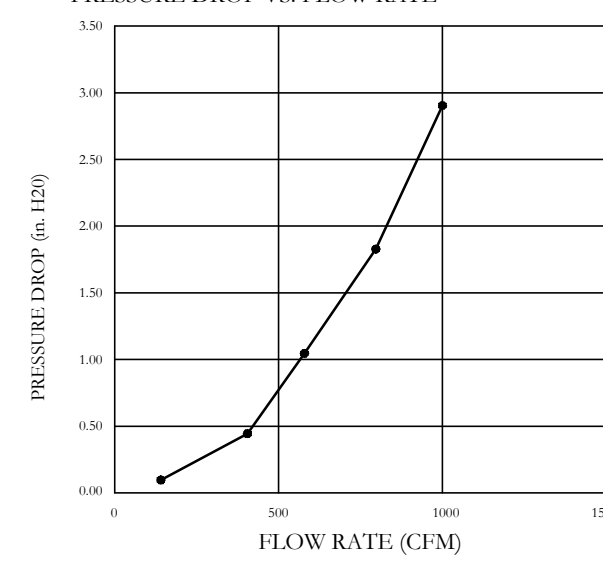
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

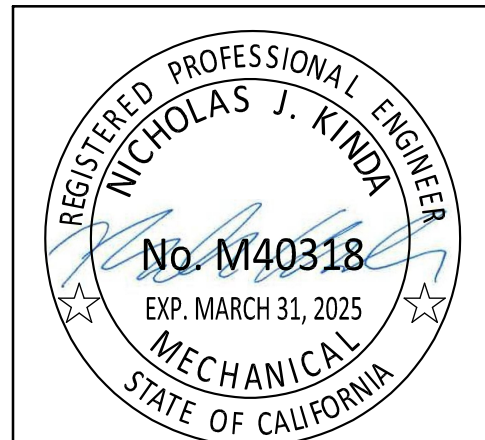
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



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DATE: 12/11/2023

JOB NUMBER: 20230736

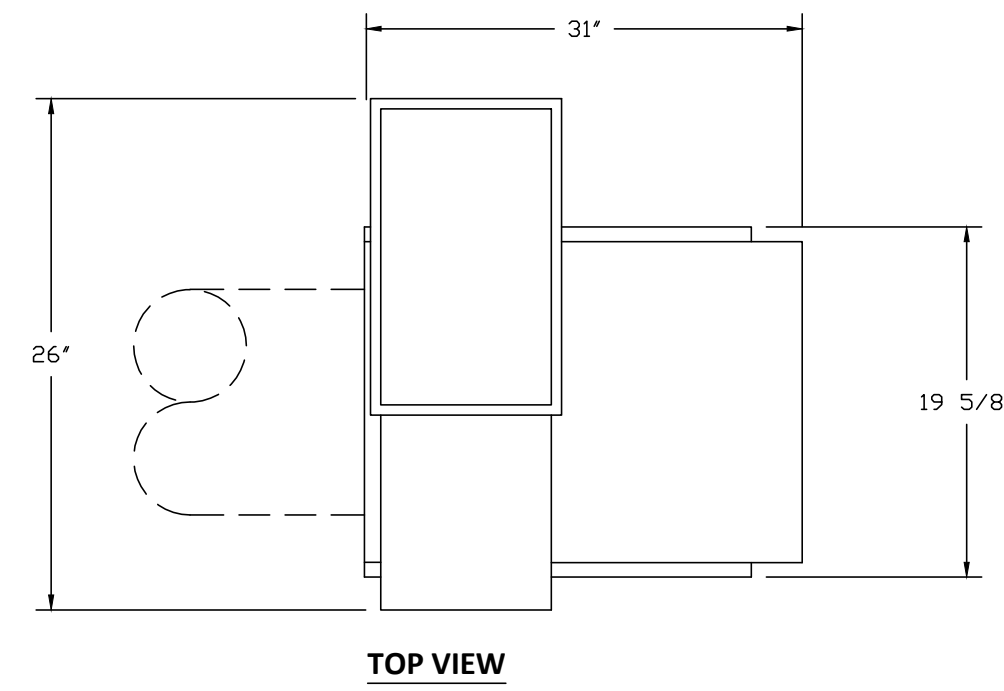
PIPING DIAGRAM - MECHANICAL

SHEET NUMBER

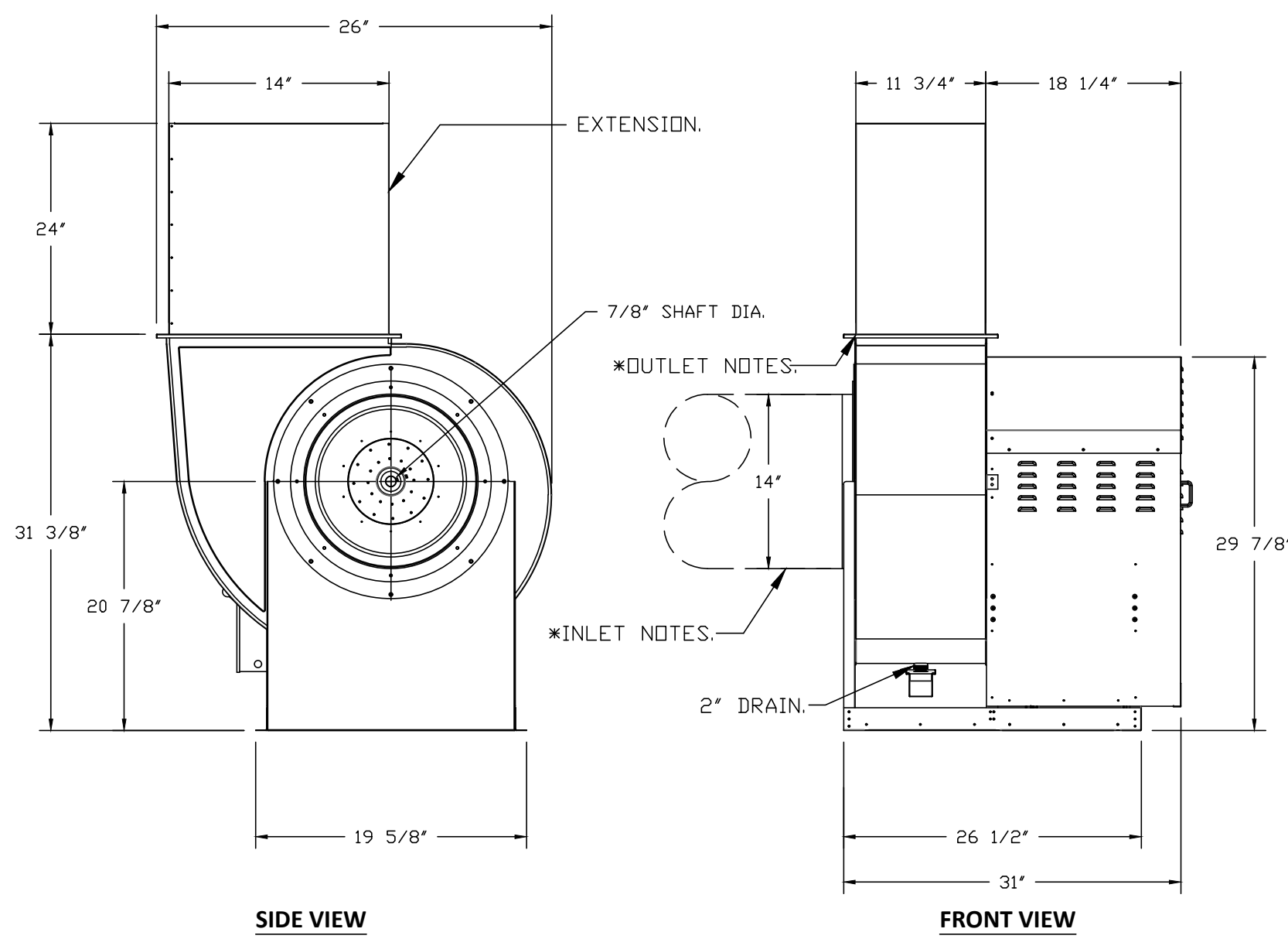
M5.02

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FAN #1 USB13DD-RM - EXHAUST FAN (FF-1)



TOP VIEW



SIDE VIEW

FRONT VIEW

FEATURES:

- ROOF MOUNTED FANS.
- UL705.
- UL762 AND ULC-S645 (RESTAURANT MODEL).
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C).
- HEAT SLINGER.
- NEMA 3R SAFETY DISCONNECT SWITCH.
- GREASE CLASSIFICATION TESTING.
- 2" DRAIN.
- MOTOR WEATHER COVER.
- FULLY SEALED SCROLL HOUSING.
- SCROLL ACCESS DOOR.
- FLANGE 1 1/4".

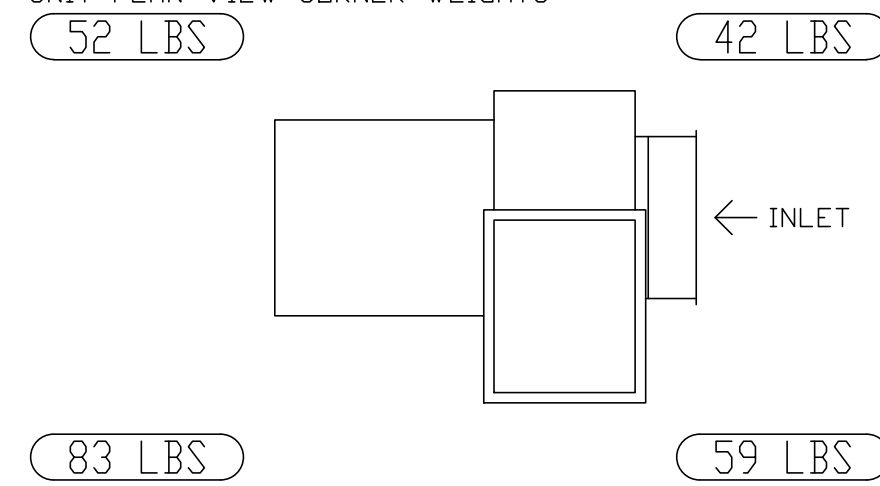
OPTIONS:

- B13 - INLET SERVICE DUCT CONNECTION, USED TO CONNECT TO STANDARD 14" GREASE DUCT OR FIELD WELDED DUCT, INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER.
- UTILITY SET GREASE CUP.
- B13 - 24" DISCHARGE EXTENSION.
- B1 - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE.
- B13 - INLET CONNECTION STANDARD 14" FLANGED GREASE DUCT.
- LOAD REACTOR MOUNTED IN FAN.
- LINE REACTOR MOUNTING BRACKET FOR DIRECT DRIVE FAN (UP TO 5 HP).
- 2 YEAR PARTS WARRANTY.

EQUIPMENT BY OTHERS

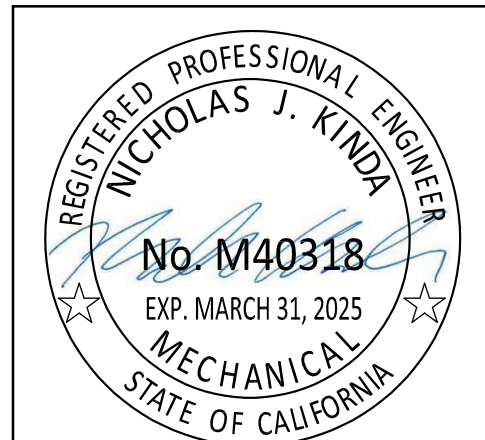
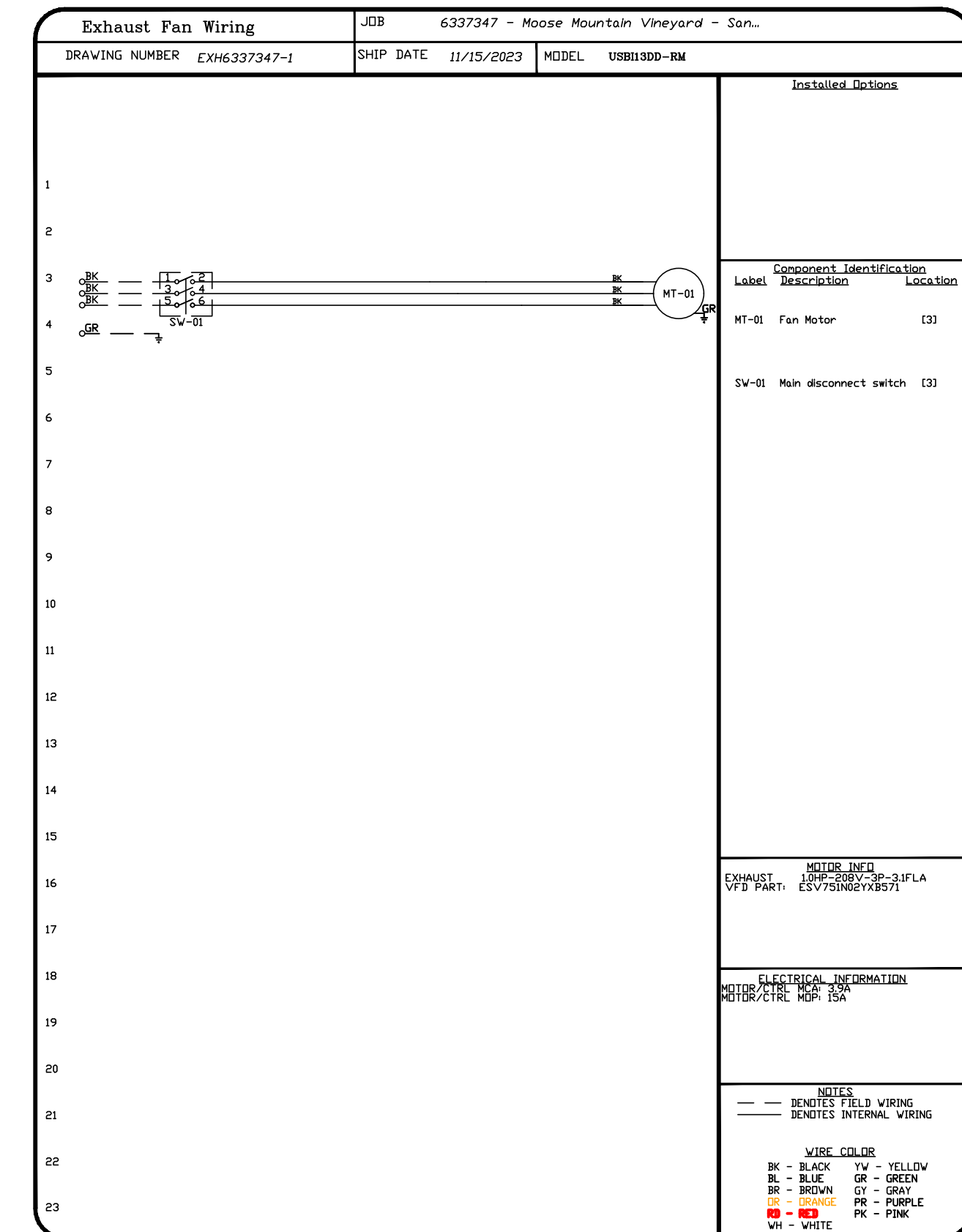
* INLET/OUTLET NOTES:
LENGTH OF THE STRAIGHT DUCT ON THE INLET AND OUTLET TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.

UNIT PLAN VIEW CORNER WEIGHTS:



CORNER WEIGHTS ARE CALCULATED BASED ON VERTICAL DISCHARGE. SUPPORT DUCT PROPERLY BEFORE FAN TO ENSURE CORNER WEIGHTS ARE NOT AFFECTED.

NORMAL TEMPERATURE TEST DIRECT DRIVE EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.



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MONTEREY | NAPA | SANTA CRUZ

MOOSE MOUNTAIN WINERY

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SAN MARTIN, CA 95046

REVISION SCHEDULE

PERMIT ISSUE 12/11/2023

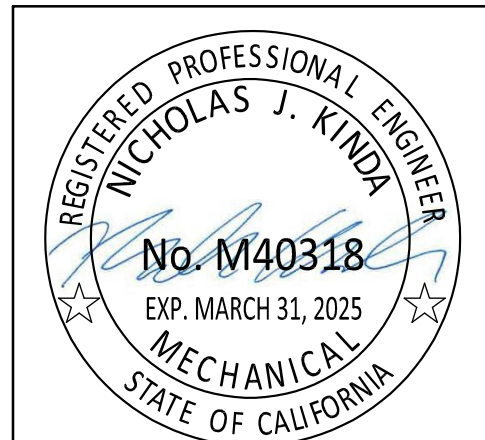
DATE: 12/11/2023

JOB NUMBER: 20230736

PIPING DIAGRAM - MECHANICAL

SHEET NUMBER

M5.03



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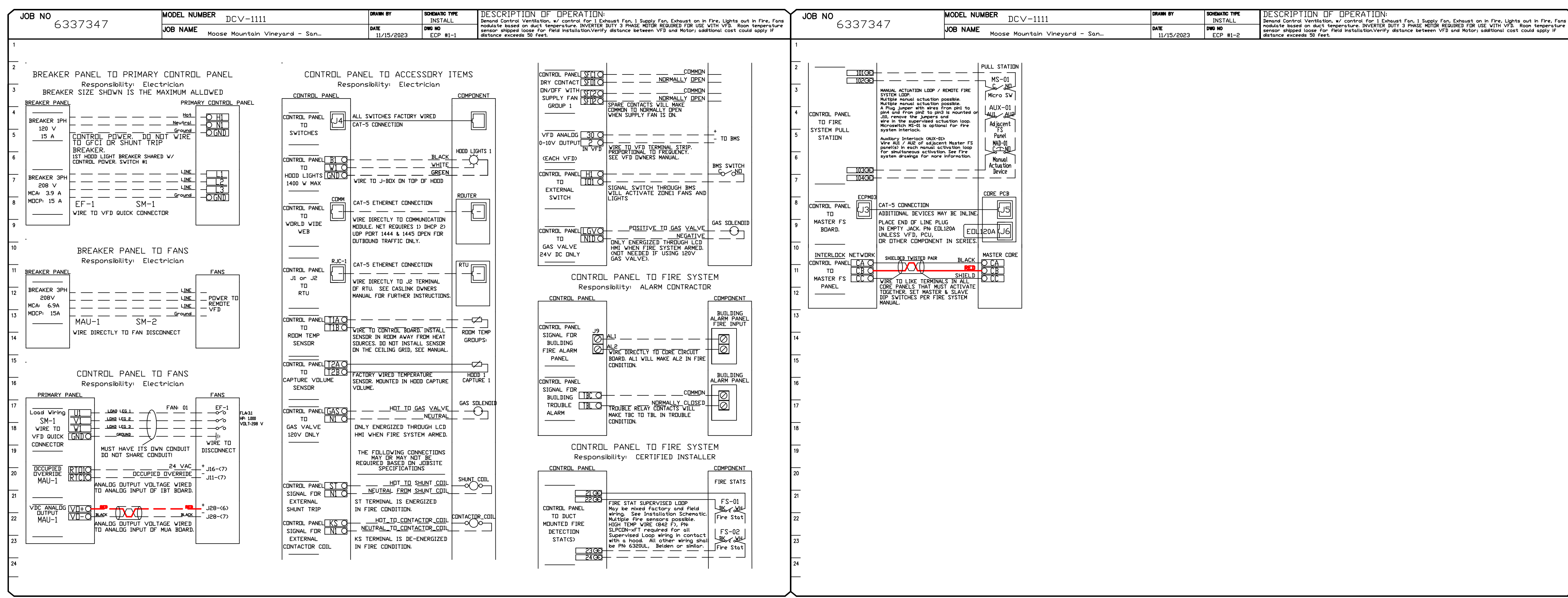
DATE: 12/11/2023
JOB NUMBER: 20230736

PIPING DIAGRAM - MECHANICAL

SHEET NUMBER

M5.05

ELECTRICAL PACKAGE - JOB#6337347				SWITCHES		OPTION		FANS CONTROLLED					
NO	TAG	PACKAGE #	LOCATION	LOCATION	QUANTITY			FAN TAG	TYPE	Φ	HP	VOLTS	FLA
1	ECF-1	DCV-1111	UTILITY CABINET RIGHT HOOD # 1	UTILITY CABINET RIGHT HOOD # 1	1 LIGHT		SMART CONTROLS DCV	EF-1	EXHAUST	3	1.000	208	3.1
					1 FAN			MAU-1	SUPPLY	3	1.500	208	4.4

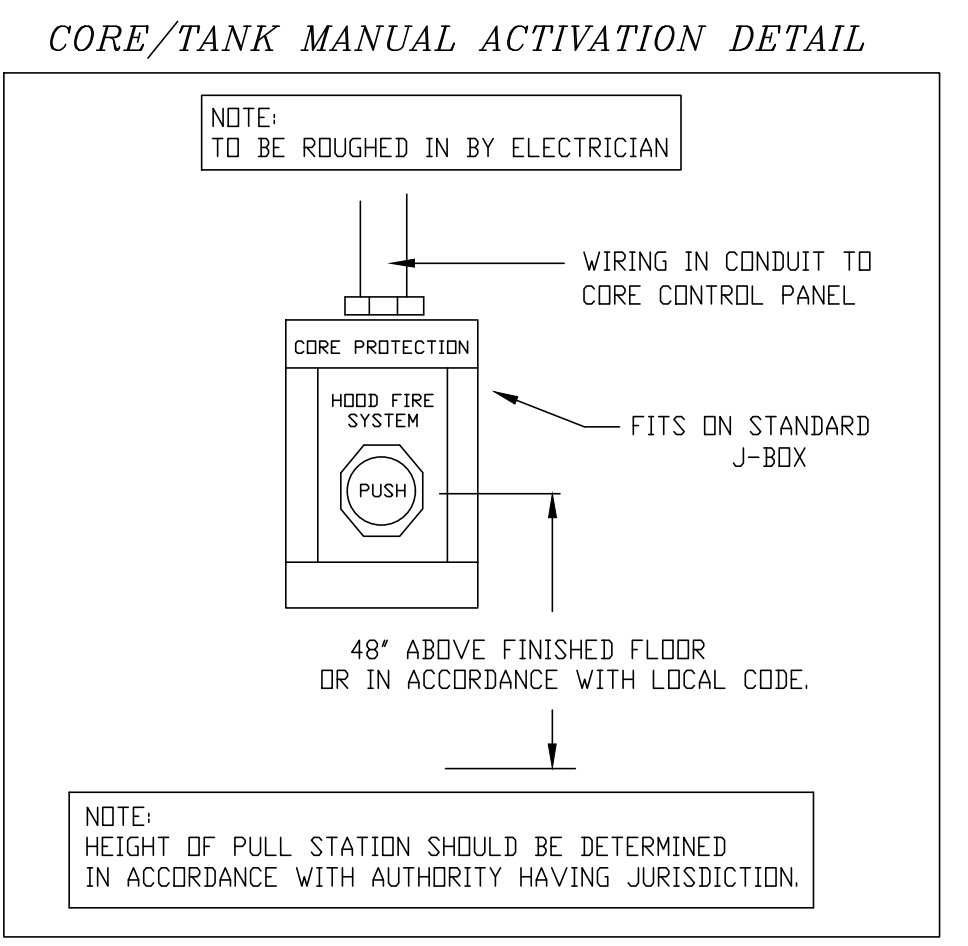
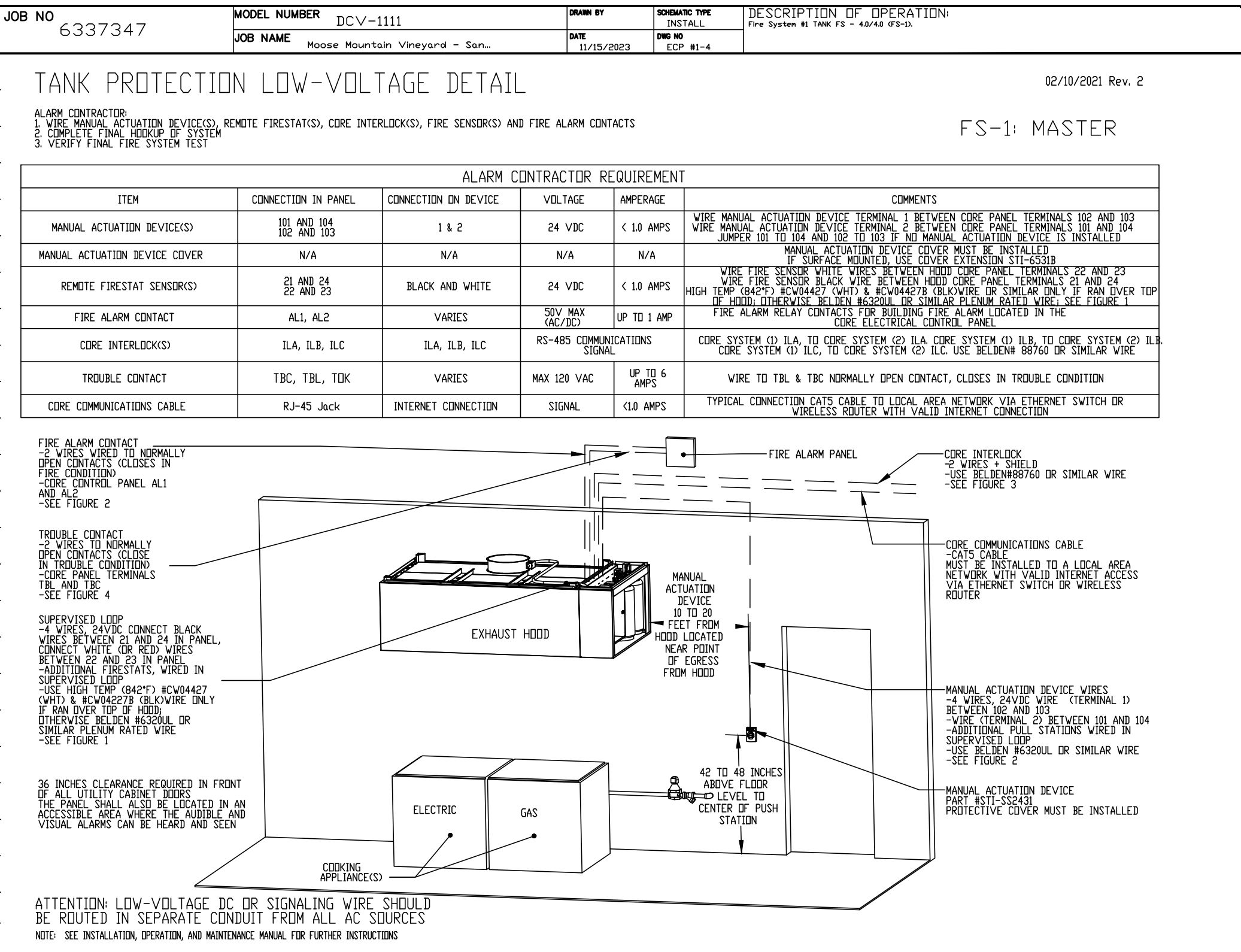
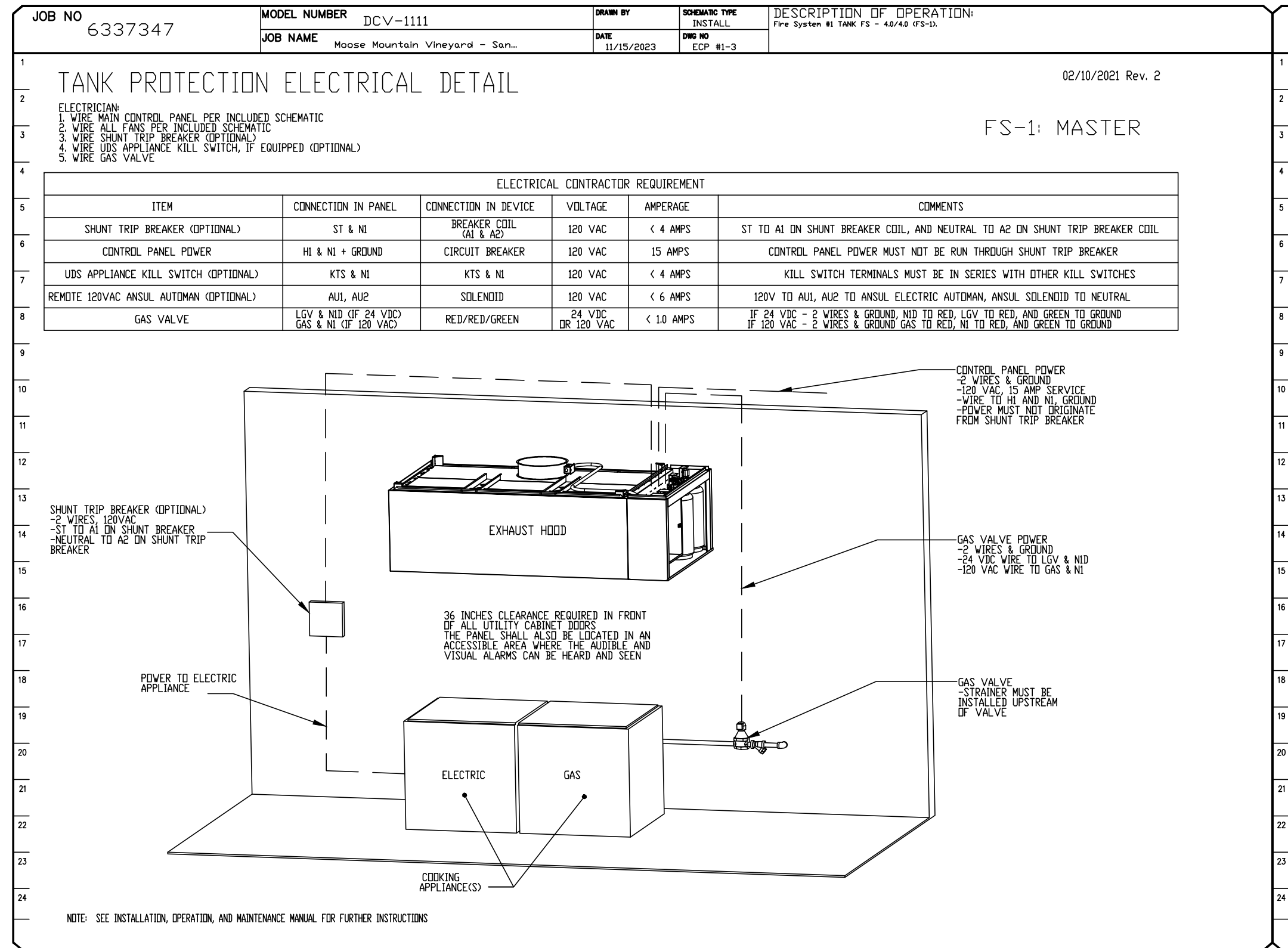


FIRE SYSTEM INFORMATION - JOB#6337347

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	FS-1	TANK FS	4.0/4.0	40	28	FIRE CABINET RIGHT	RIGHT, HOOD 1

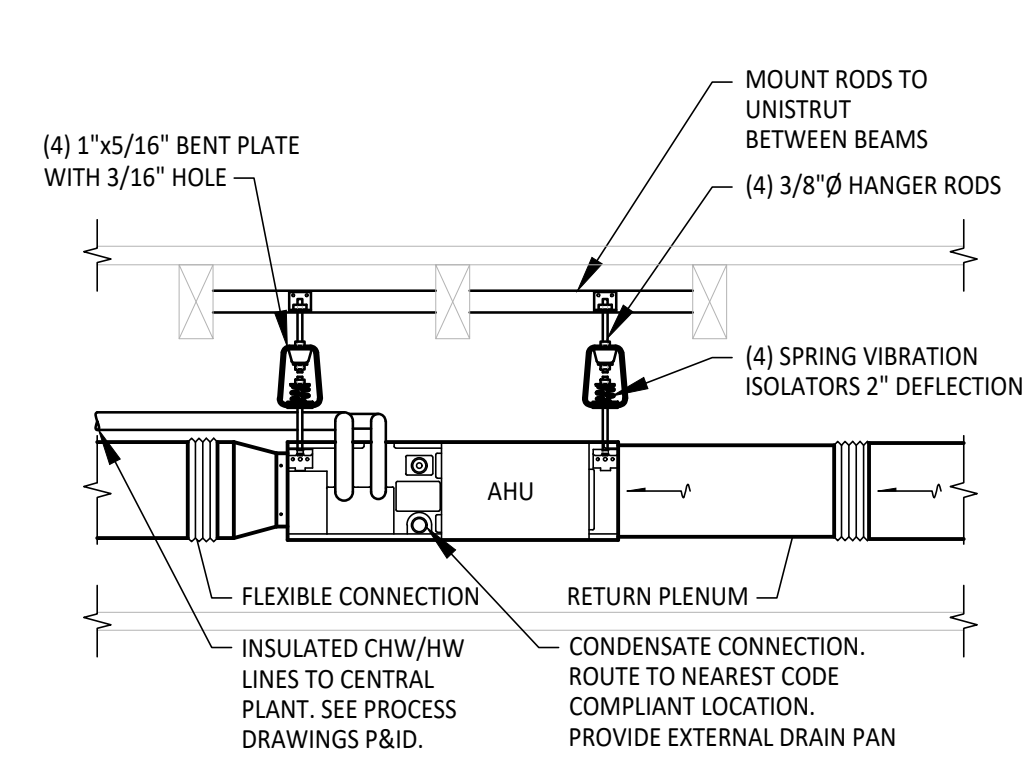
GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	FS-1	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

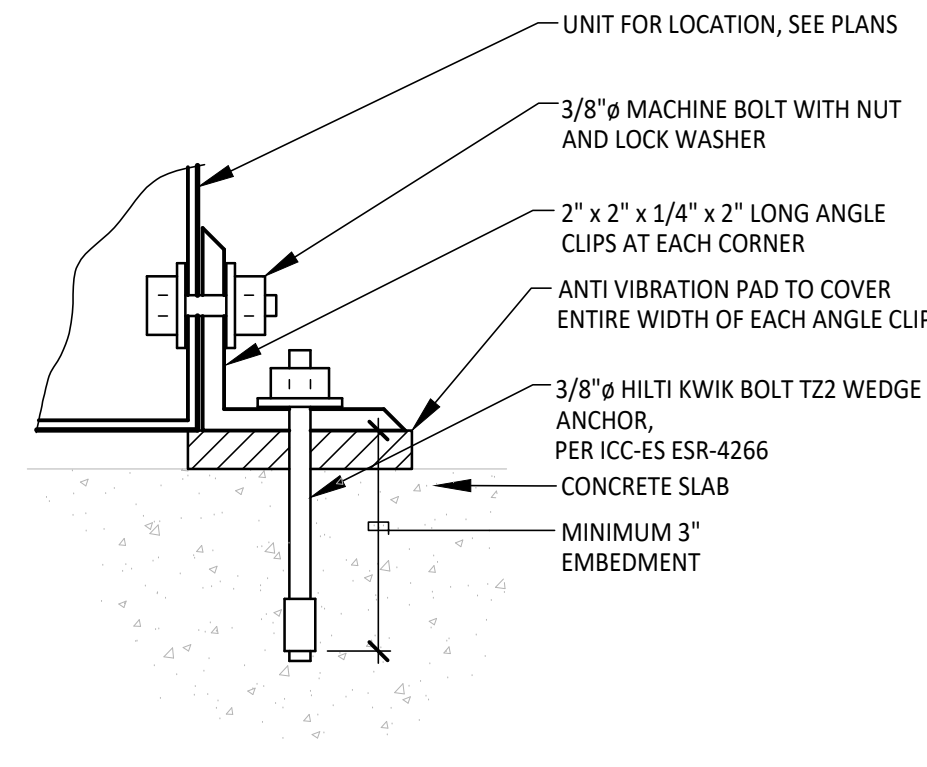


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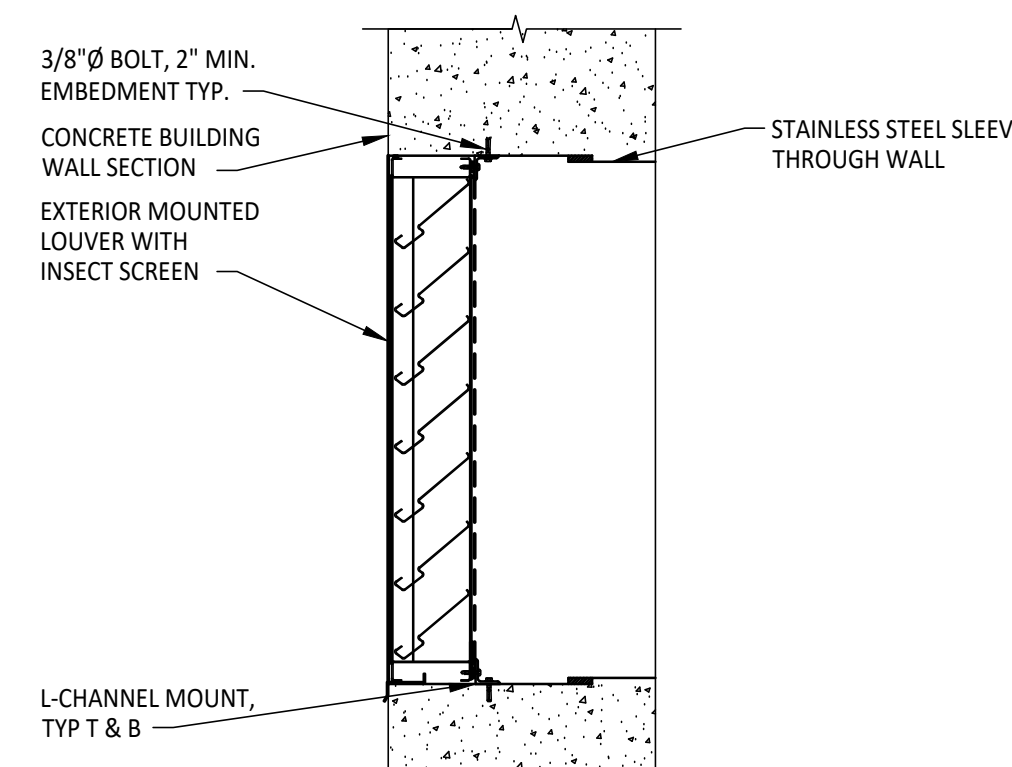
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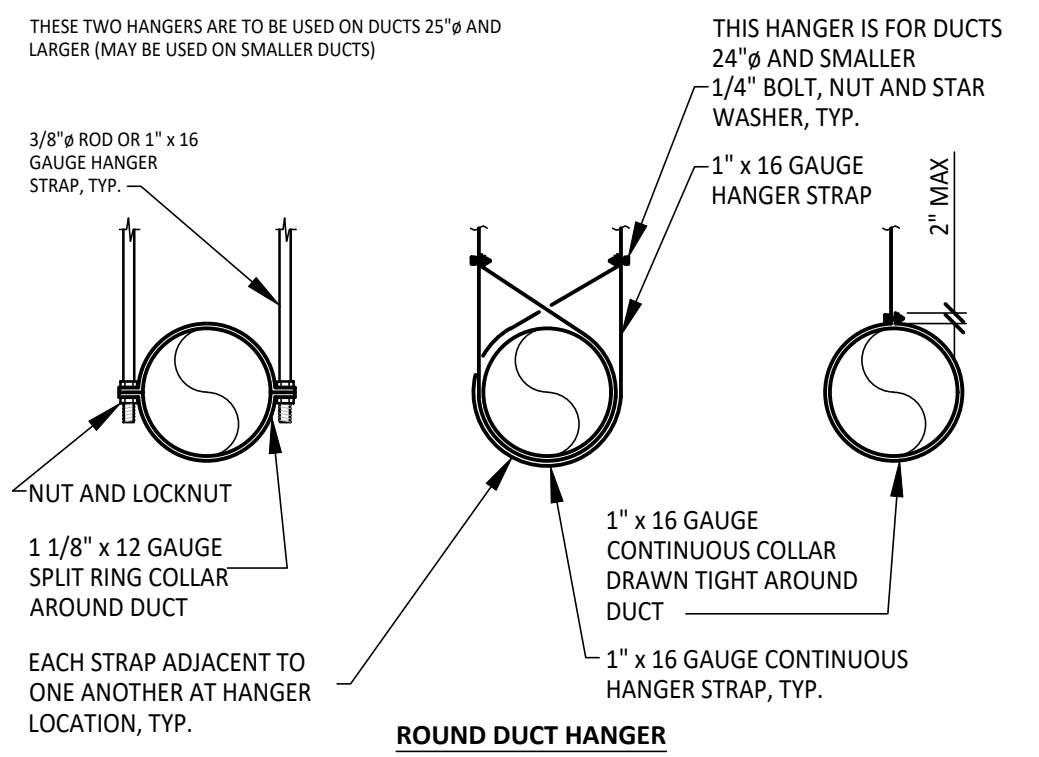
9 AIR HANDLER MOUNT DETAIL
M6.01 NO SCALE



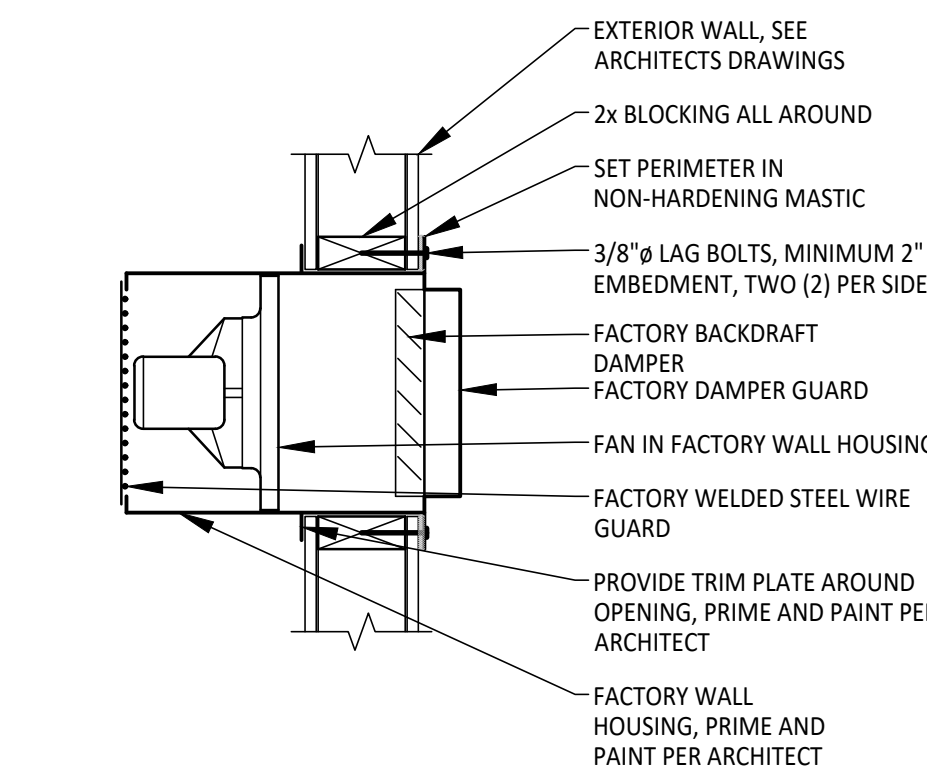
6 MAU-2/3 EQUIPMENT MOUNTING
M6.01 NO SCALE



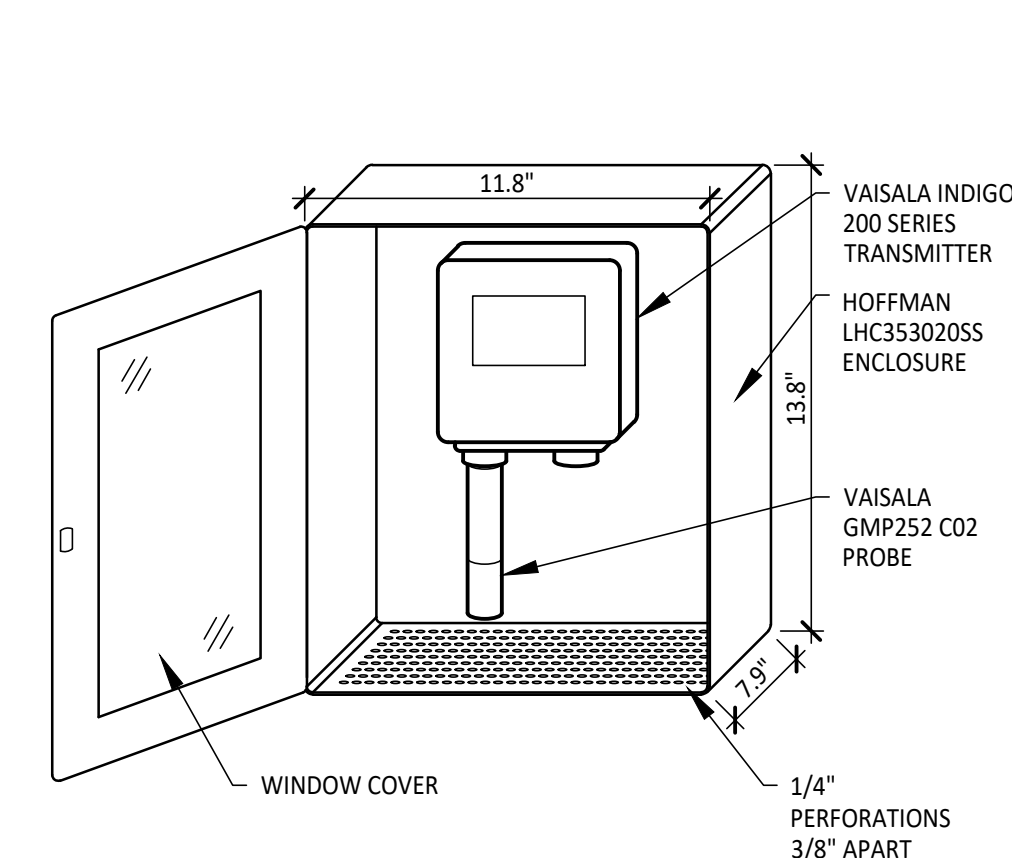
3 LOUVER MOUNTING DETAIL
M6.01 NO SCALE



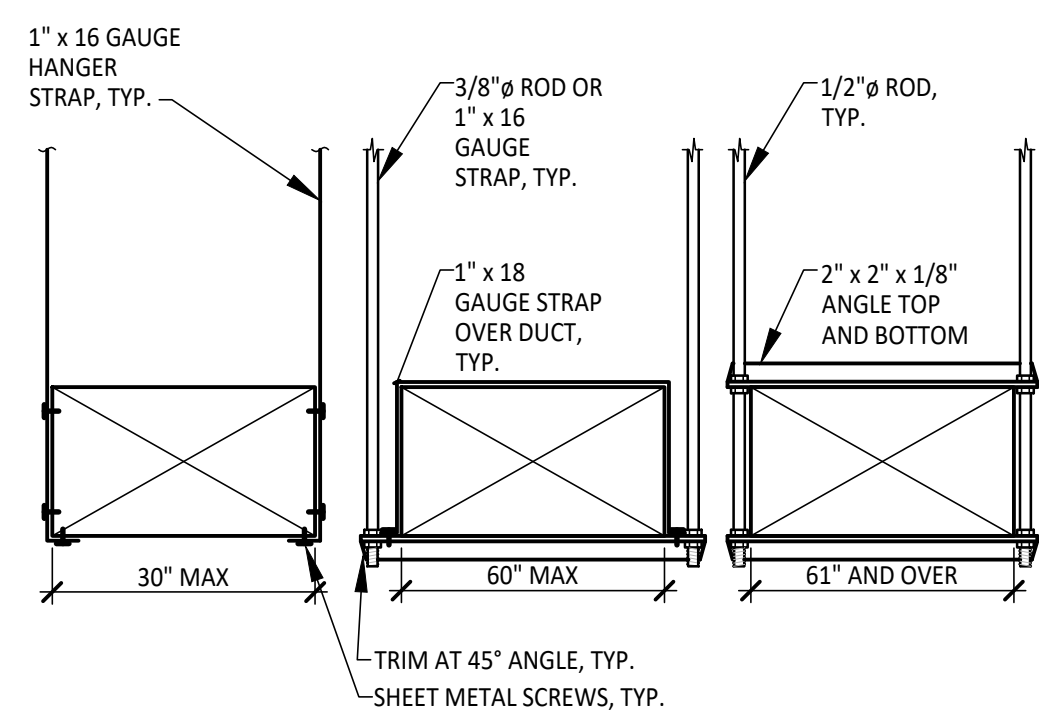
1 DUCT HANGERS DETAILS
M6.01 NO SCALE



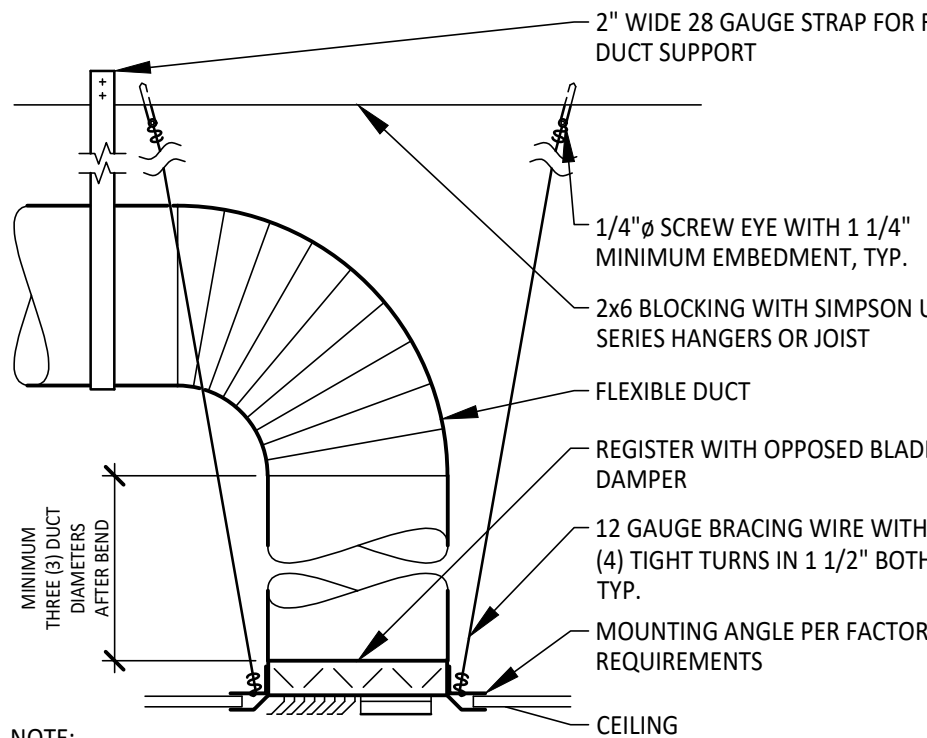
7 SIDEWALL FAN MOUNTING
M6.01 NO SCALE



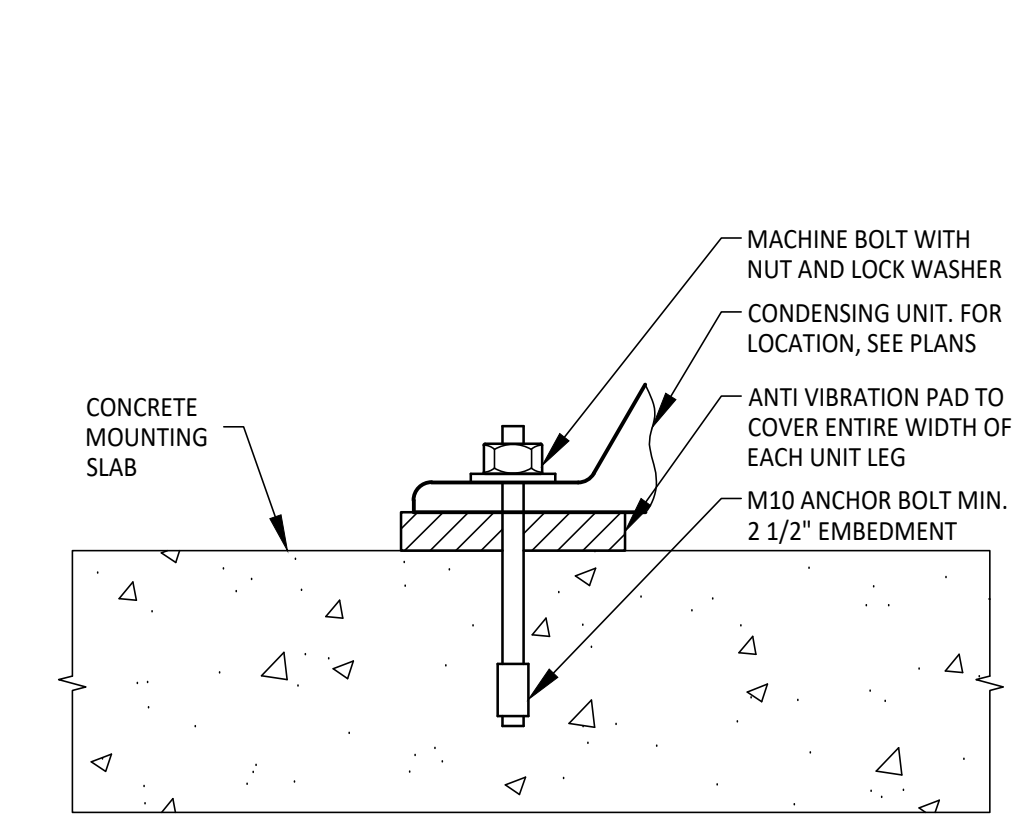
4 CO2 SENSOR ENCLOSURE
M6.01 NO SCALE



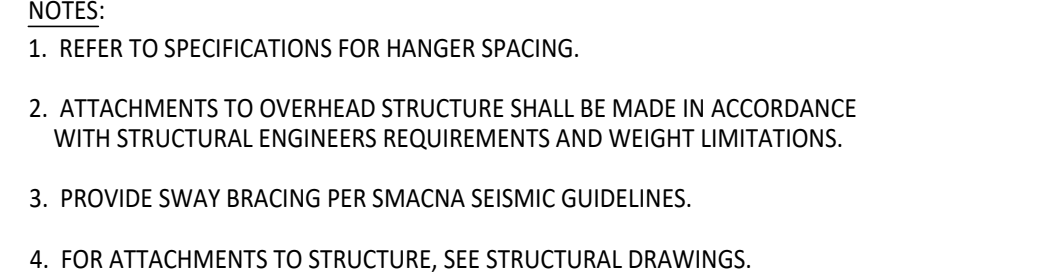
2 DUCT PENETRATION THROUGH WALL OR FLOOR
M6.01 NO SCALE



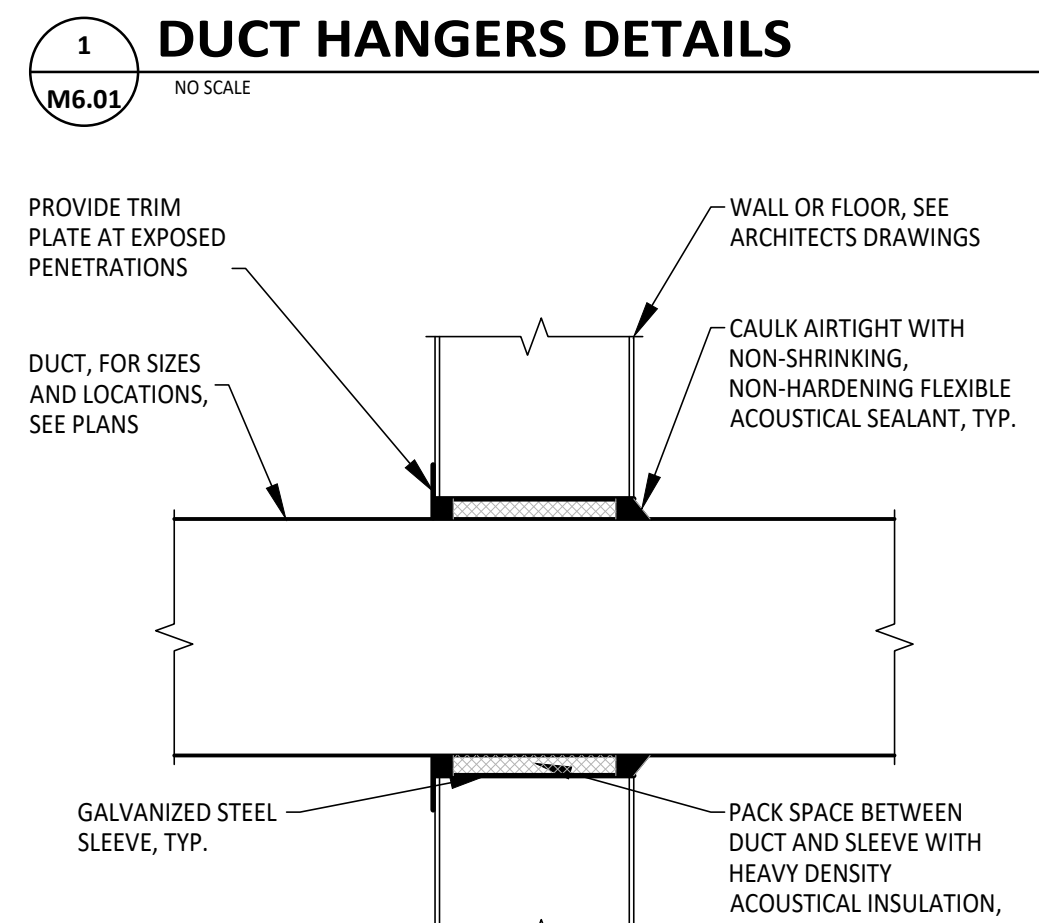
8 DIFFUSER MOUNTING HARD CEILING
M6.01 NO SCALE



5 CONDENSING UNIT MOUNTING
M6.01 NO SCALE



3 RECTANGULAR DUCT HANGER
M6.01 NO SCALE



2 DUCT PENETRATION THROUGH WALL OR FLOOR
M6.01 NO SCALE



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DETAILS - MECHANICAL

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E	
Nonresidential Performance Compliance Method		(Page 1 of 21)	
Project Name:	Moose Mountain	Date Prepared:	2023-12-08

A. General Information			
1	Project Name	Moose Mountain	
2	Run Title	Title 24 Analysis	
3	Project Location	3210 Paseo Vista Ave	
4	City	San Martin	5 Standards Version
5	Standards Version	Compliance 2022	
6	Zip code	95046	7 Compliance Software (version)
7	Compliance Software (version)	EnergyPro 9.2	
8	Climate Zone	4	9 Building Orientation (deg)
9	Building Orientation (deg)	0	
10	Building Type(s)	• Nonresidential	11 Weather File
11	Weather File	SAN-JOSE-REID-HILV_STYP20.epw	
12	Project Scope	• New envelope and mechanical	
13	Number of Dwelling Units	0	
14	Total Conditioned Floor Area in Scope (ft ²)	4283.5	15 Total # of hotel/motel rooms
15	Total # of hotel/motel rooms	0	
16	Total Unconditioned Floor Area (ft ²)	3689	17 Fuel Type
17	Fuel Type	Liquefied propane gas	
18	Nonresidential Conditioned Floor Area	4283.5	19 Total # of Stories (Habitable Above Grade)
19	Total # of Stories (Habitable Above Grade)	1	
20	Residential Conditioned Floor Area	0	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-12-08 15:16:43
 Schema Version: rev 20220601 Compliance ID: EnergyPro-3149-1223-0070

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E	
Nonresidential Performance Compliance Method		(Page 4 of 21)	

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ² - yr)			
COMPLIES ¹			
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Space Heating	198.42	133.59	64.83
Space Cooling	104.05	127.25	-23.2
Indoor Fans	199.15	228.39	-29.24
Heat Rejection	0	0	0
Pumps & Misc.	0	5.63	-5.63
Domestic Hot Water	64.19	47.59	16.6
Indoor Lighting	66.03	66.03	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	631.84	608.48	23.36 (3.7%)
Photovoltaics	-103.33	-115.04	11.71
Batteries	-0.15	---	-0.15
TOTAL COMPLIANCE	528.36	493.44	34.92 (6.6%)

¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-12-08 15:16:43
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E	
Nonresidential Performance Compliance Method		(Page 2 of 21)	

B. PROJECT SUMMARY					
Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.					
Building Components Complying via Performance			Building Components Complying Prescriptively		
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	<input type="checkbox"/> Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).
	Multifam	Not Included		<input checked="" type="checkbox"/> Not Included	
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	<input checked="" type="checkbox"/> Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)
	Multifam	Not Included		<input type="checkbox"/> Not Included	Outdoor Lighting 140.7 & 170.2(e)
Domestic Hot Water (See Table I)	Nonres	Performance	Covered Process: Laboratory Exhaust (see Table J)	<input type="checkbox"/> Performance	Sign Lighting 140.8 & 170.2(e)
	Multifam	Not Included		<input checked="" type="checkbox"/> Not Included	Building Components Complying with Mandatory Measures
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	<input checked="" type="checkbox"/> Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E).
	Multifam	Not Included		<input type="checkbox"/> Not Included	Electrical Power Distribution 110.11
			Battery (see Table F)	<input type="checkbox"/> Performance	Commissioning 120.8
				<input checked="" type="checkbox"/> Not Included	Solar and Battery 110.10

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-12-08 15:16:43
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E	
Nonresidential Performance Compliance Method		(Page 5 of 21)	

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS ¹			
Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Receptacle	232.44	232.44	---
Process	35.88	35.88	---
Other Ltg	19.46	19.46	---
Process Motors	---	---	---
TOTAL TOTAL COMPLIANCE + NON-REGULATED COMPONENTS	816.14	781.22	34.92 (4.3%)

¹ Notes: This table is not used for Energy Code Compliance.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-12-08 15:16:43
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E	
Nonresidential Performance Compliance Method		(Page 3 of 21)	

C1. COMPLIANCE SUMMARY			
COMPLIES ¹			
	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency ¹ (kBtu/ft ² - yr)	Total ² (kBtu/ft ² - yr)	Total ² (kBtu/ft ² - yr)
Standard Design	631.84	528.36	74.36
Proposed Design	608.48	493.44	64.88
Compliance Margins	23.36	34.92	9.48
	Pass	Pass	Pass

¹ Efficiency measures include improvements like a better building envelope and more efficient equipment
² Compliance Totals include efficiency, photovoltaics and batteries
³ New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded
 Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

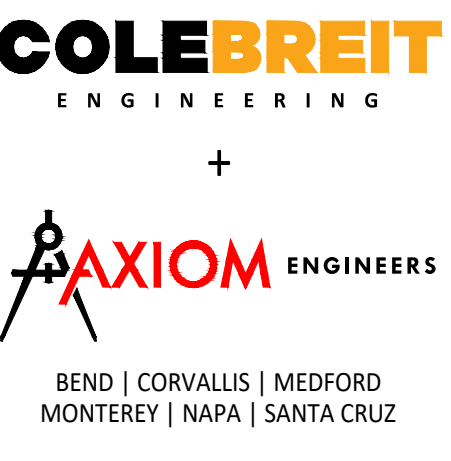
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E	
Nonresidential Performance Compliance Method		(Page 6 of 21)	

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft ² /yr)			
COMPLIES ¹			
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Space Heating	38.41	25.71	12.7
Space Cooling	4.06	4.65	-0.59
Indoor Fans	17.16	22.72	-5.56
Heat Rejection	0	0	0
Pumps & Misc.	0	0.2	-0.2
Domestic Hot Water	12.41	9.59	2.82
Indoor Lighting	5.92	5.92	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	77.96	68.79	9.17 (11.8%)
Photovoltaics	-3.54	-3.91	0.37
Batteries	-0.06	---	-0.06
TOTAL COMPLIANCE	74.36	64.88	9.48 (12.7%)

¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

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SAN MARTIN, CA 95046

REVISION SCHEDULE
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DATE: 12/11/2023
 JOB NUMBER: 20230736

TITLE 24 - MECHANICAL

SHEET NUMBER
M7.01

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method

Table with 4 columns: Non-Regulated Energy Component, Standard Design (SOURCE), Proposed Design (SOURCE), Compliance Margin (SOURCE)¹. Rows include Receptacle, Process, Other Ltg, Process Motors, and TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS).

C6. ABOVE CODE QUALIFICATIONS
 This project is pursuing CalGreen Tier 1 This project is pursuing CalGreen Tier 2

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method

Table with 3 columns: 01 Building Occupancy Type*, 02 Conditioned Floor Area (ft²), 03 Unconditioned Floor Area (ft²). Rows include Grocery, High-Rise Multifamily, Office, Financial Institutions, Unleased Tenant Space, Retail, School, Warehouse, Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater, and None.

Table with 4 columns: 01 Opaque Surfaces & Orientation, 02 Total Gross Surface Area (ft²), 03 Total Fenestration Area (ft²), 04 Window to Wall Ratio (%). Rows include North-Facing¹, East-Facing², South-Facing³, West-Facing⁴, Total, and Roof.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method

Table with 7 columns: Energy Component, Standard Design Site (MWh), Proposed Design Site (MWh), Margin (MWh), Standard Design Site (MBtu), Proposed Design Site (MBtu), Margin (MBtu). Rows include Space Heating, Space Cooling, Indoor Fans, Heat Rejection, Pumps & Misc., Domestic Hot Water, Indoor Lighting, Flexibility, EFFICIENCY TOTAL, Photovoltaics, Batteries, ENERGY USE SUBTOTAL, Receptacle, Process, Other Ltg, Process Motors, and ENERGY USE TOTAL.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
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Compliance ID: EnergyPro-3149-1223-0070

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method

Table with 2 columns: 01 Building Story Name, 02 Air Barrier. Rows include Com-Wine Lab, Com-Tasting Room, Com-Tank Storage, Com-Kitchen, and Com-Barrel Storage.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method

Table with 5 columns: Standard Design (kBtu/ft² / yr), Proposed Design (kBtu/ft² / yr), Margin (kBtu/ft² / yr), Margin Percentage. Rows include GROSS EUI¹ and NET EUI¹.

D1. EXCEPTIONAL CONDITIONS
• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-L11-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.
• The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.
• PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(g) for more information.

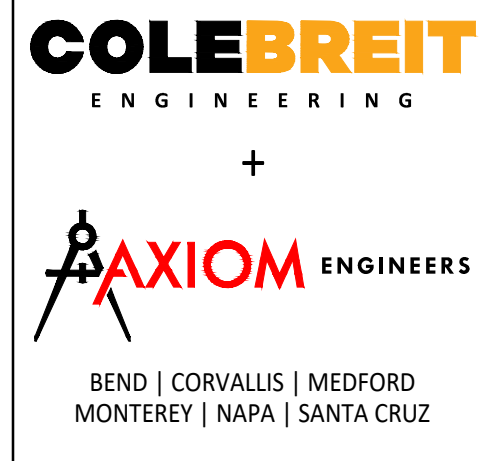
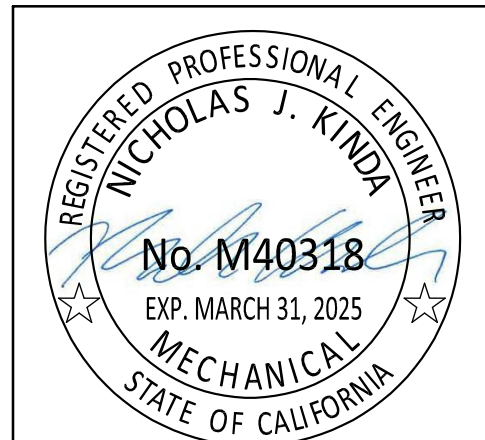
Table with 12 columns: 01 DC System Size (kWdc), 02 Exception¹, 03 Module Type, 04 Array Type, 05 Power/Electronics, 06 CFI, 07 Azimuth (deg), 08 Tilt Input, 09 Array Angle (deg), 10 Tilt (x in 12), 11 Inverter Eff. (%), 12 Annual Solar Access (%). Row includes 14 n/a Standard (14-17%) Fixed none false 180 Degrees 22 4.85 96 100.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
Schema Version: rev 20220601 Report Generated: 2023-12-08 15:16:43
Compliance ID: EnergyPro-3149-1223-0070

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method

Table with 10 columns: 01 Surface Name, 02 Construction Type, 03 Area (ft²), 04 Framing Type, 05 Cavity R-Value, 06 Continuous R-Value (Interior/Exterior), 07 Units, 08 Value, 09 Description of Assembly Layers, 10 Status¹. Rows include Energy Mass Wall9, Slab On Grade20, R-11 Wall28, R-30 Roof No Attic36, R-19 Floor No Crawlspace42, and R-21 Wall48.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
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BEND | CORVALLIS | MEDFORD
MONTEREY | NAPA | SANTA CRUZ

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SAN MARTIN, CA 95046

REVISION SCHEDULE
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DATE: 12/11/2023
JOB NUMBER: 20230736

TITLE 24 - MECHANICAL

SHEET NUMBER
M7.02

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method (Page 13 of 21)

Table with 10 columns: 01-10. Includes sub-sections G5. OPAQUE SURFACE ASSEMBLY SUMMARY and G6. OPAQUE DOOR SUMMARY (NONRESIDENTIAL). Rows include Insulating Concrete Forms, R-7 Insulated Slab, Energy Mass Wall91, and Energy Mass Wall92.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
Report Generated: 2023-12-08 15:16:43 Compliance ID: EnergyPro-3149-1223-0070

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method (Page 16 of 21)

Table with 13 columns: 01-13. Includes sub-sections H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY, H5. GENERAL EXHAUST FAN SUMMARY, and H6. WET SYSTEM EQUIPMENT (boilers, chillers, cooling towers, etc.).

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
Report Generated: 2023-12-08 15:16:43 Compliance ID: EnergyPro-3149-1223-0070

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method (Page 14 of 21)

Table with 9 columns: 01-09. Includes sub-sections G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL) and G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL).

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method (Page 17 of 21)

Table with 10 columns: 01-10. Includes sub-sections H6. WET SYSTEM EQUIPMENT (boilers, chillers, cooling towers, etc.), H7. PUMPS, and H8. SYSTEM SPECIAL FEATURES.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method (Page 15 of 21)

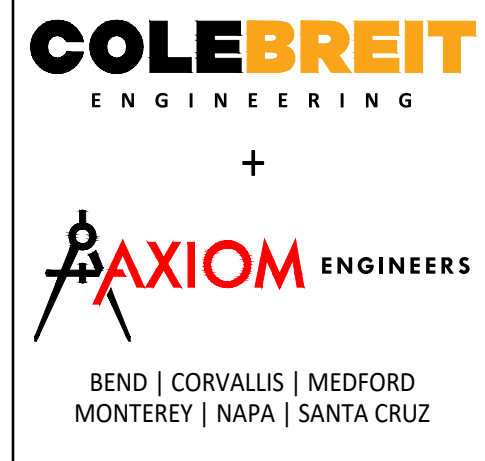
Table with 12 columns: 01-12. Includes sub-section H9. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.).

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method (Page 18 of 21)

Table with 7 columns: 01-07. Includes sub-sections H8. SYSTEM SPECIAL FEATURES, H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION, and H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY.

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JOB NUMBER: 20230736

TITLE 24 - MECHANICAL

SHEET NUMBER
M7.03

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance Compliance Method (Page 19 of 21)

Table with 12 columns (01-12) and 13 rows. Columns include System ID, System Type, Qty, Rated Capacity (kbtu/h), Airflow (cfm), and Fan. Rows list various AHU and MAU units with their specifications.

Table with 14 columns (01-14) and 3 rows. Columns include Name, Heater Element Type, Tank Type, Qty, Tank Vol (gal), Rated Input, Efficiency, and Tank Location or Ambient Condition. Row lists Lochivar2 propane gas heater.

Table with 5 columns (01-05) and 2 rows. Columns include Space Name, Exhaust Hood Style, Exhaust Hood Duty, Exhaust Length, and Exhaust Flow Rate (cfm). Row lists S-5-Kitchen/Food Prep.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601
Report Generated: 2023-12-08 15:16:43 Compliance ID: EnergyPro-3149-1223-0070

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance Compliance Method (Page 20 of 21)

Table with 2 columns: Building Component, Form/Title. Lists required certificates of installation for Envelope, Mechanical, Plumbing, and Covered Process.

Table with 2 columns: Building Component, Form/Title. Lists required certificates of acceptance for Envelope, Covered Process, Mechanical, and NRCA-MCH-10-A.

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online
There are no Certificates of Verification applicable to this project

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601
Report Generated: 2023-12-08 15:16:43 Compliance ID: EnergyPro-3149-1223-0070

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance Compliance Method (Page 21 of 21)

Documentation Author's Declaration Statement
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Brendan Taylor
Company: Axiom Engineers
Address: 1712 Jefferson Street
City/State/Zip: Napa, CA, 94559

Responsible Person's Declaration statement
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: Nicholas Kinda
Company: Axiom Engineers
Address: 1712 Jefferson Street
City/State/Zip: Napa, CA 94559
Phone: 707-251-1468

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601
Report Generated: 2023-12-08 15:16:43 Compliance ID: EnergyPro-3149-1223-0070

STATE OF CALIFORNIA
Nonresidential Building Commissioning CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-CXR-E
This document is used to demonstrate compliance with mandatory commissioning requirements in 120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.
Project Name: Moose Mountain Vineyards Report Page: (Page 1 of 6)
Project Address: 3210 Paseo Vista Ave Date Prepared: 12/8/2023

Table with 4 columns (01-04) and 3 rows. Columns include Project Location (city), Occupancy Type, Project Type, and Climate Zone. Row lists San Martin, Nonresidential, Newly constructed, and Climate Zone.

Table with 3 columns (01-03) and 8 rows. Columns include Commissioning Requirements per 120.8, and description of requirements. Rows list Design Review Kickoff, Owner's Project Requirements (OPR), Basis of Design (BOD), Design Review, Commissioning Plan, Functional Performance Testing, Documentation and Training, and Commissioning Report.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101
Report Generated: 2023-12-08 15:53:54

STATE OF CALIFORNIA
Nonresidential Building Commissioning CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-CXR-E
Project Name: Moose Mountain Vineyards Report Page: (Page 2 of 6)
Date Prepared: 12/8/2023

Table with 10 columns (01-10) and 3 rows. Columns include Design Kickoff Review, Owner's Project Requirements, Basis of Design, Design Review, Commissioning Plan, Functional Performance Testing, Documentation and Training, Commissioning Report, and Compliance status. Row lists Jennifer Rosas, P.E.

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

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

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101
Report Generated: 2023-12-08 15:53:54

STATE OF CALIFORNIA
Nonresidential Building Commissioning CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-CXR-E
Project Name: Moose Mountain Vineyards Report Page: (Page 3 of 6)
Date Prepared: 12/8/2023

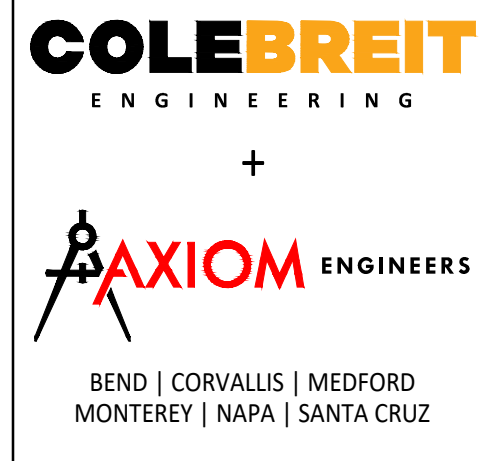
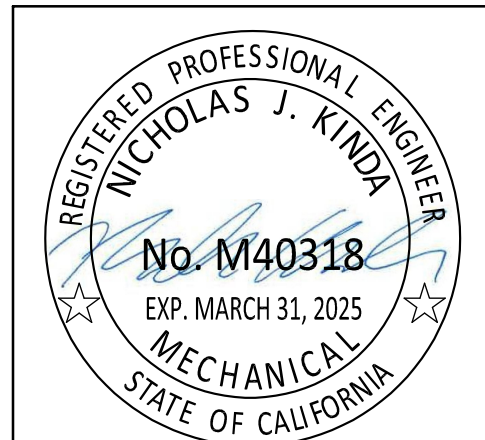
Table with 2 columns (01-02) and 2 rows. Columns include Design Review Kickoff Meeting, Meeting Attendees, and Design Reviewer(s). Row lists 2023-02-02, one person, and Jennifer Rosas, P.E.

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1
The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.
Do the Design Reviewer(s) meet these qualifications?
Yes No
In addition, for buildings with >= 10,000 ft² but < 50,000², the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor
The design reviewer(s) for this project will be: Jennifer Rosas, P.E.

Table with 3 columns (01-03) and 9 rows. Columns include Preliminary Construction Schedule, Start Date, and Completion Date. Rows list Schematic Design, Design Development, Construction Documents, Construction, and Building Turnover.

Table with 2 columns (10-13) and 4 rows. Columns include Project Goals Related to Energy Efficiency, Operational Costs, Desired Building Lifespan, Equipment Lifecycle, and Project Energy Efficiency Goals.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101
Report Generated: 2023-12-08 15:53:54



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SAN MARTIN, CA 95046

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DATE: 12/11/2023
JOB NUMBER: 20230736

TITLE 24 - MECHANICAL

SHEET NUMBER

M7.04

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CERTIFICATE OF COMPLIANCE		NRCC-CXR-E	
Project Name: Moose Mountain Vineyards	Report Page:	(Page 4 of 6)	
	Date Prepared:	12/8/2023	

F. DESIGN REVIEW KICKOFF MEETING	
14 Envelope Goals	High mass, "energy mass" Proprietary wall construction, resulting in High R-Values
15 HVAC System Goals	Demand Control Ventilation
16 Indoor Lighting System Goals	
17 Outdoor Lighting System Goals	
18 Water Heating System Goals	
19 Equipment and System Specifications	
20 Operations and Maintenance	

G. OWNER'S PROJECT REQUIREMENTS (OPR)
This section does not apply to this project.

H. BASIS OF DESIGN (BOD)
This section does not apply to this project.

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST
This table is only completed if a design review document is not attached to permit application to demonstrate compliance with 120.8(b) and 120.8(e). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff.

	YES	NO
01 Attaching Completed Design Review Documentation?	<input checked="" type="radio"/>	<input type="radio"/>

J. COMMISSIONING PLAN
This section does not apply to this project.

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Schema Version: rev 20220101 Report Generated: 2023-12-08 15:53:54

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E	
Project Name: Moose Mountain Vineyards	Report Page:	(Page 5 of 6)	
	Date Prepared:	12/8/2023	

K. FUNCTIONAL PERFORMANCE TESTING
This section does not apply to this project.

L. DOCUMENTATION AND TRAINING
This section does not apply to this project.

M. COMMISSIONING REPORT
This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
There are no forms required for this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no forms required for this project.

Generated Date/Time: Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3149-1223-0196
Schema Version: rev 20220101 Report Generated: 2023-12-08 15:53:54

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E	
Project Name: Moose Mountain Vineyards	Report Page:	(Page 6 of 6)	
Project Address: 3210 Paseo Vista Ave	Date Prepared:	12/8/2023	

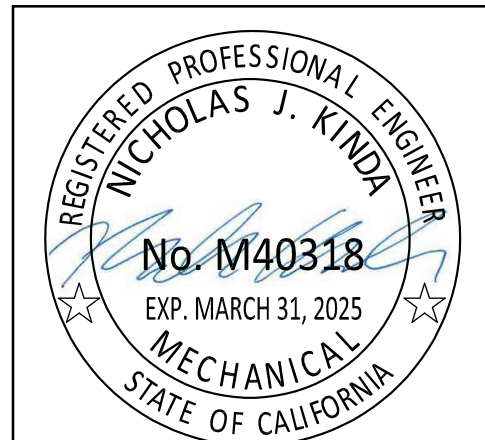
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Brendan Taylor	Documentation Author Signature:
Company: Axiom Engineers	Signature Date: 2023-12-08
Address: 1712 Jefferson Street	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Napa, CA, 94559	Phone: 707-251-1468

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the holder provides to the building owner at occupancy.

Responsible Designer Name: Gary Black	Responsible Designer Signature:
Company: Integrated Structures Inc.	Date Signed: 2023-12-08
Address: 1265 65th St.	License: C 040531
City/State/Zip: Emeryville, CA 94608	Phone: 510 735 9801

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-3149-1223-0196
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MOOSE MOUNTAIN WINERY
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M7.05