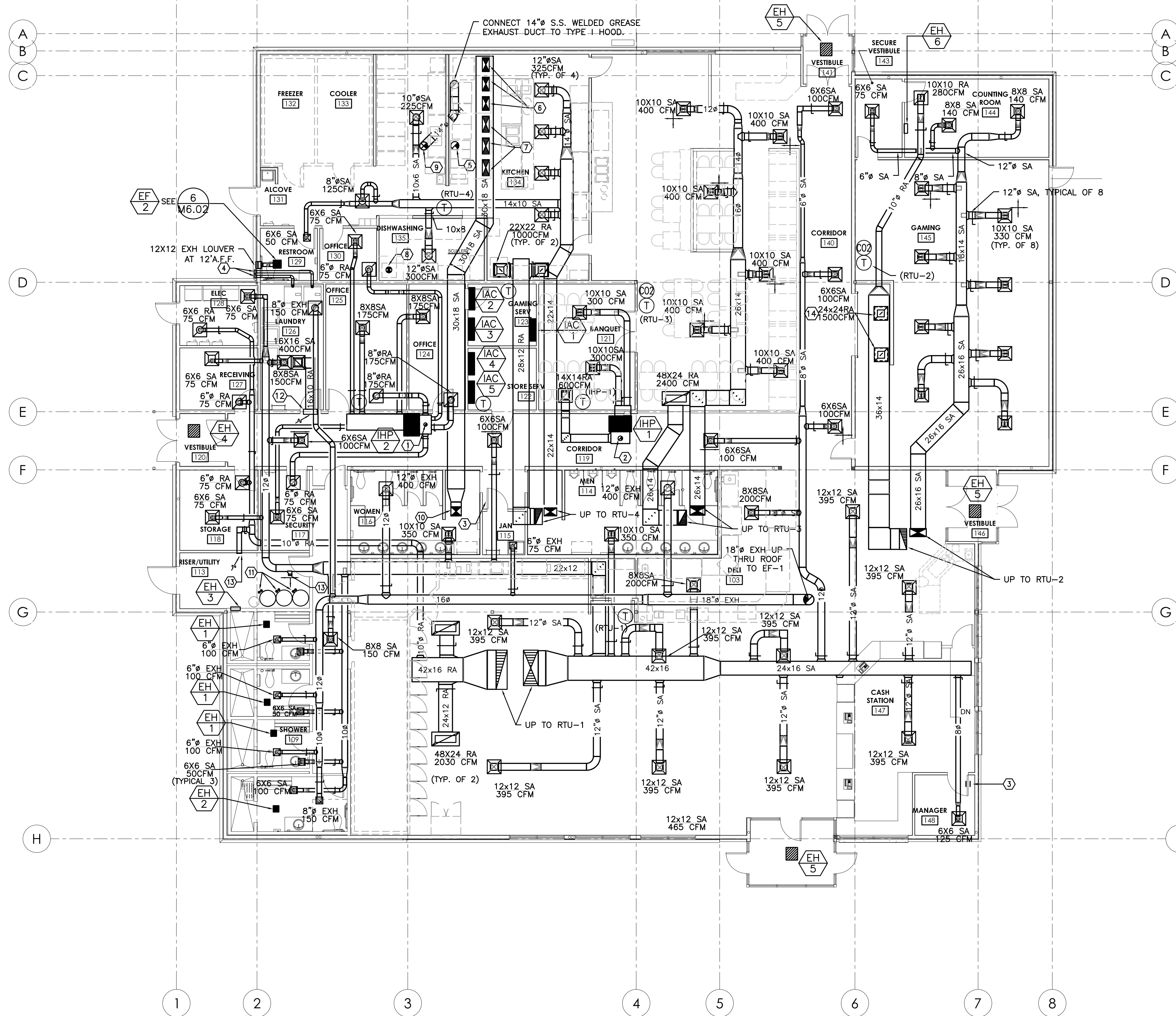


KEYED NOTES:

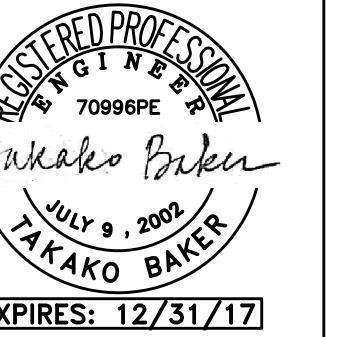
- 1 - 6" INSULATED OSA DUCT UP THRU ROOF WITH A MANUAL BALANCING DAMPER AND A 2-POS CONTROL DAMPER. SEE 8/M6.02 FOR DETAIL. SEE EQUIPMENT SCHEDULE FOR OSA AIRFLOW.
- 2 - 8" INSULATED OSA DUCT UP THRU ROOF WITH A MANUAL BALANCING DAMPER AND A 2-POS CONTROL DAMPER. SEE 8/M6.02 FOR DETAIL. SEE EQUIPMENT SCHEDULE FOR OSA AIRFLOW.
- 3 - UNDERCUT DOOR BY 3/4".
- 4 - TERMINATE 4" DRYER DUCT AT EXTERIOR WALL PER MFR'S INSTALLATION MANUAL.
- 5 - 14" WELDED S.S. GREASE DUCT UP THRU ROOF TO GREASE FAN.
- 6 - CONNECT 24X12 SA TO SUPPLY PLENUM ON THE GREASE HOOD. BALANCE AIRFLOW TO 560 CFM AT EACH CONNECTION.
- 7 - CONNECT 28X12 SA TO SUPPLY PLENUM ON THE GREASE HOOD. BALANCE AIRFLOW TO 662 CFM AT EACH CONNECTION.
- 8 - 10" EXHAUST DUCT FROM DISHWASHER HOOD. ROUTE UP THRU ROOF TO EXHAUST FAN.
- 9 - 14" WELDED S.S. GREASE EXHAUST DUCT UP THRU ROOF TO EXHAUST FAN.
- 10 - 18X16 SA UP THRU ROOF TO MAKE-UP AIR UNIT.
- 11 - 3" PP COMBUSTION AIR/ VENT FROM WATER HEATERS UP THRU ROOF. TERMINATE WITH A CONCENTRIC FITTING. SEE 7/M6.02.
- 12 - 24X12 TRANSFER GRILLE
- 13 - 8X6 SA/RA 125 CFM
- 14 - 24X24 EGG CRATE RA GRILLE

GENERAL NOTES:

1. SEE 1/P6.01 FOR SEISMIC PIPE SUPPORT.
2. SEE 2/P6.01 FOR NON-SEISMIC PIPE SUPPORT.
3. SEE 3/P6.01 FOR ACOUSTICAL WALL PENETRATION DETAIL.



1 HVAC FLOOR PLAN
M2.01 SCALE: 1/8" = 1'-0"



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WARM SPRINGS TRAVEL CENTER

Madras, OR

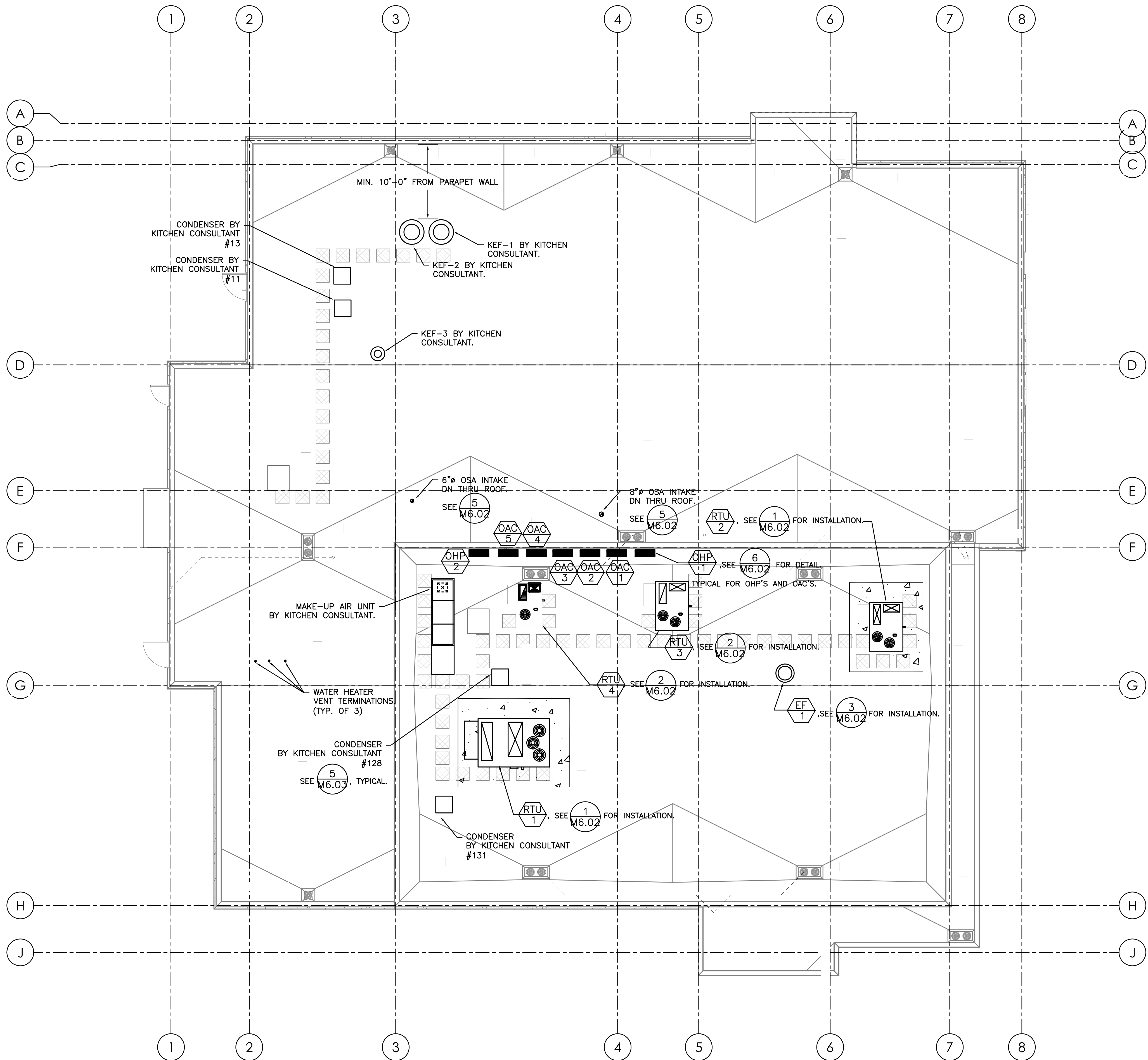
No.	Description	Date

Project Number	1519
Date	AUGUST 22, 2016
Drawn By	TB
Checked By	TB

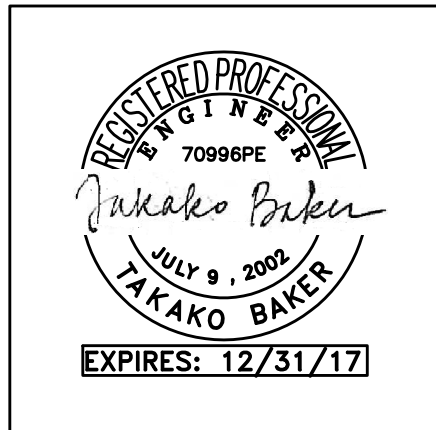
HVAC FLOOR PLAN

M2.01

PERMIT SET / BID SET



1 HVAC ROOF PLAN
M3.01 SCALE: 1/8" = 1'-0"



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WARM SPRINGS TRAVEL CENTER
Madras, OR

No.	Description	Date

Project Number	1519
Date	AUGUST 22, 2016
Drawn By	TB
Checked By	TB

HVAC ROOF PLAN

M3.01

PERMIT SET / BID SET

	 SUPPLY AIR DIFFUSER	AFF	 ABOVE FINISH FLOOR
	 RETURN AIR DIFFUSER	AHU	 AIR HANDLING UNIT
	 EXHAUST AIR DIFFUSER	B.D.	 BOTTOM OF DUCT
	 DIRECTIONAL AIR FLOW	BHP	 BRAKE HORSEPOWER
	 MANUAL VOLUME DAMPER	BOG	 BOTTOM OF GRILLE
	 SUPPLY AIR DUCT UP & DOWN	BTU	 BRITISH THERMAL UNITS
	 RETURN AIR DUCT UP & DOWN	CFM	 CUBIC FEET PER MINUTE
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	CONN.	 CONNECTION
	 SUPPLY AIR DUCT UP & DOWN	CONT.	 CONTINUATION
	 RETURN AIR DUCT UP & DOWN	CW	 DOMESTIC COLD WATER
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	DB	 DRY BULB
	 SUPPLY AIR DUCT UP & DOWN	DIA.	 DIAMETER
	 RETURN AIR DUCT UP & DOWN	DIST.	 DISTRIBUTION
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	EXH	 EXHAUST AIR
	 SUPPLY AIR DUCT UP & DOWN	EDB	 ENTERING DRY BULB TEMPERATURE
	 RETURN AIR DUCT UP & DOWN	EWB	 ENTERING WET BULB TEMPERATURE
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	EWT	 ENTERING WATER TEMPERATURE
	 SUPPLY AIR DUCT UP & DOWN	FF	 FINISH FLOOR
	 RETURN AIR DUCT UP & DOWN	FIXT.	 FIXTURE
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	F.O.B.	 FLAT ON BOTTOM
	 SUPPLY AIR DUCT UP & DOWN	FM	 FEET PER MINUTE
	 RETURN AIR DUCT UP & DOWN	FPS	 FEET PER SECOND
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	FT.	 FEET / FOOT
	 SUPPLY AIR DUCT UP & DOWN	GA.	 GAUGE
	 RETURN AIR DUCT UP & DOWN	GEXH	 GREASE EXHAUST AIR DUCT
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	GPM	 GALLONS PER MINUTE
	 SUPPLY AIR DUCT UP & DOWN	H	 HEIGHT
	 RETURN AIR DUCT UP & DOWN	HP	 HORSEPOWER
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	I.D.	 INSIDE DIAMETER
	 SUPPLY AIR DUCT UP & DOWN	IN.	 INCHES
	 RETURN AIR DUCT UP & DOWN	L	 LENGTH
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	LBS.	 POUNDS
	 SUPPLY AIR DUCT UP & DOWN	LDB	 LEAVING DRY BULB
	 RETURN AIR DUCT UP & DOWN	LWB	 LEAVING WET BULB
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	LWT	 LEAVING WATER TEMPERATURE
	 SUPPLY AIR DUCT UP & DOWN	MA	 MAKE UP AIR
	 RETURN AIR DUCT UP & DOWN	MAX.	 MAXIMUM
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	MBH	 THOUSANDS OF BTUs PER HOUR
	 SUPPLY AIR DUCT UP & DOWN	MD	 MOTORIZED DAMPER
	 RETURN AIR DUCT UP & DOWN	MIN.	 MINIMUM
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	MVD	 MANUAL VOLUME DAMPER
	 SUPPLY AIR DUCT UP & DOWN	NC	 NOISE CRITERIA
	 RETURN AIR DUCT UP & DOWN	N.C.	 NORMALLY CLOSED
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	N.I.M.	 NOT IN MECHANICAL
	 SUPPLY AIR DUCT UP & DOWN	NO.	 NUMBER
	 RETURN AIR DUCT UP & DOWN	N.O.	 NORMALLY OPEN
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	O.A.	 OUTSIDE AIR
	 SUPPLY AIR DUCT UP & DOWN	P	 PERSON
	 RETURN AIR DUCT UP & DOWN	PSI	 POUNDS PER SQUARE INCH
	 EXHAUST OR OUTSIDE AIR DUCT UP & DOWN	P/T	 PRESSURE / TEMPERATURE
	 SUPPLY AIR DUCT UP & DOWN	R.A.	 RETURN AIR

BOTTOM DUCT
 TOP DUCT
 DUCT CROSSING
 TURNING VANES IN ALL SQUARE ELBOWS AND TEES
 LINED DUCTWORK
 DOUBLE WALL DUCTWORK
 RECT. TO RECT.
 RECT. TO ROUND
 SPECIFICATION REFERENCE
 SA = SUPPLY DIFFUSER
 RA = MATCHED RETURN
 EXH = EXH GRILLE
 TRANSITIONS
 RETURN AIR CEILING DIFFUSER PRICE PDDR OR APPROVED EQUAL
 ARROWS INDICATE DIRECTION OF AIR FLOW
 SUPPLY AIR CEILING DIFFUSER PRICE SMCD OR APPROVED EQUAL BRANCH DUCT
 SPIN-IN FITTING WHERE APPLICABLE. GNFLEX SM-1DEL (WITH DAMPER AND 45° EXTRACTOR) OR APPROVED EQUAL
 10X6 SA (W" x H") SA MAIN DUCT
 AIR TERMINALS
 NECK SIZE
 BALANCED AIRFLOW, CFM
 SIDEWALL DIFFUSER SEE PLANS
 SOFFIT WALL
 ELBOWS
 ROUND OR RECTANGULAR MAIN
 6"
 1"
 8" SA/RA-ROUND SA/RA DUCT
 TRANSITION FROM RECTANGULAR TO ROUND (MIN. CROSS-SECTIONAL AREA TO MATCH ROUND)
 MANUAL VOLUME DAMPER; LOCATE BY MAIN DUCT IN ACCESSIBLE LOCATION
 ROUND DUCT TRANSITION W/ SPIN-IN FITTING OFF TOP OF RECTANGULAR MAIN
 SMOOTH RADIUS ELBOW, W/O VANES
 $R/W = 1.0$
 $15^\circ < A < 90^\circ$
 MITERED ELBOW
 $A < 15^\circ$

MARK NUMBER		RTU 1	RTU 2	RTU 3	RTU 4
SYSTEM		DRY GOODS AND RESTROOMS	GAMING	DINING	KITCHEN
TYPE					
SUPPLY FAN	TOTAL CFM	5,645	2,995	2,400	2,000
	MIN. OSA (CFM)	1,740	1,185	1020	185
	EXTERNAL S.P., "H2O (EXCL. FILTER)	1.25"	1.0	1.0	1.0
	RPM	938	949	836	1,464
	BHP	3.53	1.63	1.77	1.62
	2-SPEED(VFD) (NOTE 2)	YES	NO	NO	NO
POWER EXH. FAN		YES	YES	YES	YES
POWER EXH. FAN TYPE		CENTRIFUGAL	PROPELLER	PROPELLER	PROPELLER
ECONOMIZER 100%		YES	YES	YES	YES
FILTER TYPE		30%	30%	30%	30%
HEATING	GAS HEATING INPUT, MBH	336/268	188/151	150/105	150/105
	HEATING STAGES	2	2	2	2
	THERMAL EFFICIENCY, %	81	81	82	82
COOLING	NOMINAL CAPACITY (TONS)	15	7.5	6	5
	STAGES	2	2	1	1
	NET TOTAL/SENSIBLE COOLING(MB/H)	169/150	86.5/81.7	69/68	57/46
	ENT. EVAP AIR TEMP (DB/WB.)	81/63	83/63	83/63	78/64
	AMBIENT AIR (°F)	95	95	95	95
	IEER	13.5	13.0	13.0	15.2 SEER
	REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A
DESIGN WEIGHT WITH CURB (LBS.)		2,635	1,300	1,110	835
SMOKE DETECTOR IN RETURN DUCT		YES	YES	YES	YES
REMOTE CO2 SENSOR		NO	YES	YES	NO
FLUE DEFLECTOR		YES	YES	YES	YES
VIBRATION ISOLATION CURB		YES	YES	NO	NO
BASIS OF DESIGN IS CARRIER 48HC		17B	08B	07B	06B

NOTES:

1. CONTROLS SHALL BE PACKAGED THERMOSTATS;
2. PROVIDE FAN CONTROL TO REDUCE SUPPLY AIRFLOW TO 2/3 OF FULL FAN SPEED WHEN COOLING DEMAND IS LESS THAN OR EQUAL TO 50% PER OEEC 2014, 503.2.10.3.2.

TYPE	DUCTED	DUCTED
SYSTEM	BANQUET	OFFICES
INDOOR UNIT MARK NUMBER	IHP 1	IHP 2
OUTDOOR UNIT MARK NUMBER	OHP 1	OHP 2
NOMINAL CAPACITY (TON)	1.5	1.5
OUTSIDE AIR CFM	170	170
NOMINAL COOLING CAPACITY, BTUH	18,000	18,000
NOMINAL HEATING CAPACITY, BTUH	20,000	20,000
DRY AIRFLOW (LOW/MED/HIGH)	529/582/635	529/582/635
CONDENSATE PUMP	YES	YES
REFRIGERANT TYPE	R-410A	R-410A
SEER	17.5	17.5
HSPF	10.6	10.6
MAX PIPING LENGTH (FT.)	164	164
MAX PIPING ELEV. CHANGE (FT.)	98	98
INDOOR UNIT DESIGN WT.	80	80
OUTDOOR UNIT DESIGN WT.	150	150
OUTDOOR UNIT MOUNTING KIT	WALL	WALL
BASIS OF DESIGN: DAIKIN	RZQ18PVJ9J/FBQ18PVJU	RZQ18PVJ9J/FBQ18PVJU

GENERAL NOTES FOR OHP-1 & OHP-2 :

1. PROVIDE OUTDOOR HEAT PUMP WITH CRANKCASE HEATER, TXV, LOW AMBIENT CONTROL, WINTER START CONTROL, HI-LOW PRESSURE SWITCH, WIND BAFFLE AND ISOLATION RELAY.
2. PROVIDE WIRELESS WALL MOUNTED THERMOSTAT.
3. PROVIDE UNIT WITH A DAIKIN KRP1C74 ADAPTER BOARD TO CONTROL 2-POSITION OSA INTAKE DAMPER TO OPEN/CLOSE WITH FAN OPERATION.

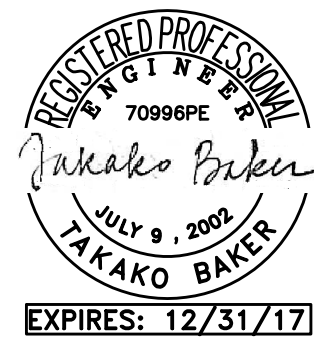
MARK NUMBER	EF 1	EF 2
DESIGN ELEVATION, FEET	3,200	3,200
TYPE	ROOF	CEILING
SYSTEM	RESTROOMS	RESTROOM 129
CFM	1,475	100
TOTAL S.P. (IN H2O)	0.5	0.3
DRIVE	DIRECT	DIRECT
SOLID STATE SPEED CONTROL	YES	YES
FAN RPM	1,443	704
MOTOR HP	1/2	48W
CONTROLLED BY	CONTINUOUS	LIGHT SWITCH
INTERLOCK WITH	RTU-1	---
WHEEL TYPE	B.I.	F.C.
MOTORIZED DAMPER	YES	BACKDRAFT ONLY
ISOLATION	YES	YES
DESIGN WEIGHT (LBS)	51	21
MOUNTING	ROOF CURB	CEILING
MAX. SONES	12.8	2
DISCHARGE/CONFIGURATION	DOWNBLAST/ROOF	WALL LOUVER
MOTOR OUT OF AIR STREAM	YES	NO
BASIS OF DESIGN: GREENHECK	G	SP

TYPE	DUCT FREE SPLIT SYSTEM				
SYSTEM	GAMING/STORE SERVER				
INDOOR UNIT MARK NUMBER	IAC 1	IAC 2	IAC 3	IAC 4	IAC 5
OUTDOOR UNIT MARK NUMBER	OAC 1	OAC 2	OAC 3	OAC 4	OAC 5
TYPE (INDOOR UNIT)	WALL MOUNT				
NOMINAL CAPACITY (TON)	2				
NOMINAL COOLING CAPACITY, BTU/H	24,000				
REFRIGERANT TYPE	R410A				
DRY AIRFLOW (LOW/MED/HIGH)	420/604/745				
SEER	15.0				
MAX PIPING LENGTH (FT.)	98.4				
MAX PIPING ELEV. CHANGE	65.6				
CONDENSATE PUMP "LITTLE GIANT"	YES				
INDOOR UNIT DESIGN WEIGHT, LBS	26				
OUTDOOR UNIT DESIGN WEIGHT, LBS	97				
OUTDOOR UNIT MOUNTING KIT	WALL MOUNT				
BASIS OF DESIGN: DAIKIN	FTRK24NMUJU / FRK24NMUJU				

NOTE:

1. PROVIDE WITH CRANKCASE HEATER, TXV, LOW AMBIENT CONTROL, WINTER START CONTROL, HI-LOW PRESSURE SWITCH, WIND BAFFLE AND ISOLATION RELAY.

2. PROVIDE WALL MOUNTED THERMOSTAT. IAC-1, 2, 3 TO BE CONTROLLED BY A T-STAT IN GAMING. IAC-4 & 5 BY A T-STAT IN STORE SERVER ROOM.

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WARM SPRINGS TRAVEL CENTER

Madras, OR

[illegible]

Project Number	1519
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Date AUGUST 22, 2016

Drawn By	TB
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Checked By JVB

MECHANICAL LEGEND SCHEDULES & DETAILS

M6.00

PERMIT SET / BID SET

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By MFIA Inc

AHU Location	Description	$\sum V_{pz}$ cfm	Ps People	$\sum P_z$ People	D $P_s / \sum P_z$	Vou cfm	Vps cfm	Xs	Ev	Vot cfm	%OA Vol / Vps
Alternative 1											
Zone	RTU-2	Cooling	2,585	109	109	1.00	1,034	2,585	0.400	1,000	1,034 40.0
		Heating	2,585	109	109	1.00	1,034	2,585	0.400	0.900	1,149 44.4
		Cooling	368	3	3	1.00	34	368	0.093	1,000	34 9.3
Zone	Zone - 016	Heating	368	3	3	1.00	34	368	0.093	1,000	34 9.3
		Cooling	368	3	3	1.00	34	368	0.093	1,000	34 9.3
Zone	RTU-3	Cooling	1,957	88	88	1.00	901	1,957	0.460	1,000	901 46.0
		Heating	1,957	88	88	1.00	901	1,957	0.460	0.885	1,018 52.0
Zone	RTU-1	Cooling	3,436	47	47	1.00	695	3,436	0.202	0.402	1,728 50.3
		Heating	3,436	47	47	1.00	695	3,436	0.202	0.402	1,728 50.3
Zone	HP-3	Cooling	339	6	6	1.00	57	339	0.189	0.993	58 17.0
		Heating	339	6	6	1.00	57	339	0.189	0.950	60 17.8
Zone	RTU-4	Cooling	1,015	6	6	1.00	174	1,015	0.172	0.993	175 17.1
		Heating	1,015	6	6	1.00	174	1,015	0.172	0.949	184 18.1
Zone	HP-1	Cooling	300	17	17	1.00	170	300	0.567	1.000	170 56.7
		Heating	300	17	17	1.00	170	300	0.567	0.858	198 66.0
Zone	AC-1	Cooling	0	0	0	0.00	0	0	0.000	0.000	0 0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0 0.0

* Apply Single Zone Ventilation Calculation

Project Name: WS TRAVEL CENTER.trc

TRACE® 700 v6.3.2 calculated at 03:26 PM on 08/02/2016
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 1 of 7

By MFLA Inc

System Zone Room	Occupancy Category	Std 170										—Cooling—		—Heating—	
		Rp cfm / p	Pz People	Ra cfm/p²	Az ft²	Vbz cfm	Min OA ach	Ez	Voz cfm	Ez	Voz cfm				
Alternative 1															
145 GAMING	Game arcades	7.50	109.09	0.18	1,200	1,034		1.00	1,034	0.80				1,283	
RTU-2		7.50	109.09	0.18	1,200	1,034								1,283	
143 SECURE VESTIBULE	Corridors	0.00	0.26	0.06	79	5		1.00	5	0.80				0	
144 COUNTING ROOM	Office space	5.00	3.01	0.06	241	30		1.00	30	0.80				37	
Zone - 016		4.60	3.27	0.06	319	34								43	
RTU-3		7.42	112.36	0.15	1,519	1,068			1,068					1,335	
138 DINING	Restaurant dining rooms	7.50	88.33	0.18	1,325	901		1.00	901	0.80				1,126	
RTU-2		7.50	88.33	0.18	1,325	901								1,126	
RTU-3		7.50	88.33	0.18	1,325	901								1,126	
102 DRY GOODS	Supermarket	7.50	39.60	0.06	3,960	535		1.00	535	0.80				661	
119 CORRIDOR	Corridors	0.00	2.48	0.06	745	45		1.00	45	0.80				56	
140 CORRIDOR	Corridors	0.00	2.71	0.06	648	39		1.00	39	0.80				49	
112 HALL	Corridors	0.00	0.16	0.06	212	13		1.00	13	0.80				16	
128 LAUNDRY	Laundry Rooms, Central	5.00	0.51	0.12	154	21		2.00	1.00	51	0.80			51	
127 RECEIVING	Shipping/ receiving	0.00	0.47	0.12	142	17		1.00	17	0.80				21	
HP-3	Shipping/ receiving	0.00	0.45	0.12	135	16		1.00	16	0.80				20	
148 MANAGER	Office space	5.00	0.92	0.06	92	10		1.00	10	0.80				13	
RTU-1		6.43	47.31	0.06	6,088	695								884	
RTU-1		6.43	47.31	0.06	6,088	695								884	
125 OFFICE	Office space	5.00	2.10	0.06	165	21		1.00	21	0.80				26	
117 SECURITY	Office space	5.00	0.83	0.06	83	9		1.00	9	0.80				11	
130 OFFICE	Office space	5.00	0.65	0.06	65	7		1.00	7	0.80				9	
124 T1 OFFICE	Office space	5.00	1.96	0.06	176	20		1.00	20	0.80				25	
HP-3		5.00	5.54	0.06	492	57								71	
HP-2		5.00	5.54	0.06	492	57								71	
134 KITCHEN	Kitchen - cooking	7.50	5.23	0.12	1,045	165		1.00	165	0.80				206	
131 ALCOVE	Corridors	0.00	0.53	0.06	160	10		1.00	10	0.80				12	
RTU-4		6.81	5.76	0.11	1,205	174								218	
RTU-4		6.81	5.76	0.11	1,205	174								218	
121 BANQUET	Restaurant dining rooms	7.50	16.67	0.18	250	170		1.00	170	0.80				213	
HP-1		7.50	16.67	0.18	250	170								213	

Project Name: WS TRAVEL CENTER.trc

TRACE® 700 v6.3.2 calculated at 03:26 PM on 08/02/2016
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 2 of 7

By MFIA Inc

System Zone Room	Occupancy Category	Rp cfm / p	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Std 170	Cooling		Heating	
							Min OA ach	Ez cfm	Voz cfm	Ez cfm	Voz cfm
Alternative 1											
HP-1		7.50	16.67	0.18	250	170			170		213

Project Name: WS TRAVEL CENTER.tre

TRACE® 700 v6.3.2 calculated at 03:26 PM on 08/02/2011
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 3 of 7

By MFIA Inc.

System Zone Room		Box Type	Vpzn cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-olg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1														
RTU-2	145 GAMING	Single Fan CV	2,585	2,585	2,585	0	1,034	0.400	1.00	1.00	1.00	1.00	1.00	1.000 *
	146 SANS	Single Fan CV	2,585	2,585	2,584	0	1,034							1.000 *
	144 SECURE VESTIBULE	Single Fan CV	64	64	64	0	5	0.073	1.00	1.00	1.00	1.00	1.00	1.000 *
	144 COUNTING ROOM	Single Fan CV	305	305	305	0	30	0.097	1.00	1.00	1.00	1.00	1.00	1.000 *
RTU-2	Zone - 016		368	368	368	0	34							1.000
			2,954	2,954	2,954	0	1,068							1.000
RTU-3	138 DINING	Single Fan CV	1,957	1,957	1,957	0	901	0.450	1.00	1.00	1.00	1.00	1.00	1.000 *
			1,957	1,957	1,957	0	901							1.000
			1,957	1,957	1,957	0	901							1.000
			2,586	2,586	2,586	0	535	0.209	1.00	1.00	1.00	1.00	1.00	0.993
RTU-1	119 CORRIDOR	Single Fan CV	279	279	279	0	45	0.160	1.00	1.00	1.00	1.00	1.00	1.000
	140 CORRIDOR	Single Fan CV	246	246	246	0	39	0.158	1.00	1.00	1.00	1.00	1.00	1.000
	112 HALL	Single Fan CV	79	79	79	0	13	0.160	1.00	1.00	1.00	1.00	1.00	1.000
	128 LAUNDRY	Single Fan CV	64	64	64	0	51	0.800	1.00	1.00	1.00	1.00	1.00	0.402 *
	127 RECEIVING	Single Fan CV	63	63	63	0	17	0.269	1.00	1.00	1.00	1.00	1.00	0.933
	118 STORAGE	Single Fan CV	60	60	60	0	16	0.272	1.00	1.00	1.00	1.00	1.00	0.931
	148 MANAGER	Single Fan CV	89	89	89	0	10	0.114	1.00	1.00	1.00	1.00	1.00	1.000
			3,436	3,436	3,436	0	726							0.402
RTU-1		Single Fan CV	3,436	3,436	3,436	0	726							0.402
	125 OFFICE	Single Fan CV	117	117	117	0	21	0.175	1.00	1.00	1.00	1.00	1.00	0.893 *
	117 SECURITY	Single Fan CV	55	55	55	0	9	0.165	1.00	1.00	1.00	1.00	1.00	1.000
	130 OFFICE	Single Fan CV	50	50	50	0	7	0.144	1.00	1.00	1.00	1.00	1.00	1.000
HP-3	12411 OFFICE	Single Fan CV	117	117	117	0	20	0.174	1.00	1.00	1.00	1.00	1.00	0.994
			339	339	339	0	57							0.993
HP-2			339	339	339	0	57							0.993
	134 KITCHEN	Single Fan CV	923	923	923	0	165	0.178	1.00	1.00	1.00	1.00	1.00	0.993 *
	131 ALCOVE	Single Fan CV	93	93	93	0	10	0.103	1.00	1.00	1.00	1.00	1.00	1.000
RTU-4	1014		1,015	1,015	1,015	0	174							0.993
			1,015	1,015	1,015	0	174							0.993
HP-1	121 BANQUET	Single Fan CV	300	300	300	0	170	0.567	1.00	1.00	1.00	1.00	1.00	1.000 *
			300	300	300	0	170							1.000
HP-1			300	300	300	0	170							1.000
HP-1			0	0	0	0	0							0.000

Project Name:
Dataset Name: WS TRAVEL CENTER.trc

TRACE® 700 v6.3.2 calculated at 03:26 PM on 08/02/2016
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 4 of 7

By MFIA Inc.

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-clg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
AC-1		0	0	0	0	0							0.000

Project Name: WS TRAVEL CENTER.trc

TRACE® 700 v6.3.2 calculated at 03:26 PM on 08/02/2016
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 5 of 7

By MFLA Inc.

System	Zone	Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-htg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1															
145 GAMING				2,585	2,585	2,585	0	1,293	0.500	1.00	1.00	1.00	1.00	1.00	0.900 *
RTU-2				2,585	2,585	2,585	0	1,293	0.500	1.00	1.00	1.00	1.00	1.00	0.900 *
143 SECURE VESTIBULE				64	64	64	0	6	0.092	1.00	1.00	1.00	1.00	1.00	1.000 *
144 COUNTING ROOM				305	305	305	0	37	0.121	1.00	1.00	1.00	1.00	1.00	1.000 *
Zone - 016				368	368	368	0	43	0.493	1.00	1.00	1.00	1.00	1.00	0.900 *
RTU-2				2,954	2,954	2,954	0	1,475	0.500	1.00	1.00	1.00	1.00	1.00	0.900 *
138 DINING				1,957	1,957	1,957	0	1,126	0.575	1.00	1.00	1.00	1.00	1.00	0.885 *
RTU-3				1,957	1,957	1,957	0	1,126	0.575	1.00	1.00	1.00	1.00	1.00	0.885 *
102 DRY GOODS				1,957	1,957	1,957	0	1,126	0.575	1.00	1.00	1.00	1.00	1.00	0.885 *
119 CORRIDOR				2,456	2,456	2,456	0	884	0.261	1.00	1.00	1.00	1.00	1.00	0.941 *
140 CORRIDOR				279	279	279	0	56	0.200	1.00	1.00	1.00	1.00	1.00	1.000 *
112 HALL				246	246	246	0	49	0.198	1.00	1.00	1.00	1.00	1.00	1.000 *
126 LAUNDRY				79	79	79	0	16	0.200	1.00	1.00	1.00	1.00	1.00	1.000 *
127 RECEIVING				64	64	64	0	51	0.800	1.00	1.00	1.00	1.00	1.00	0.400 *
127 RECEIVING				63	63	63	0	21	0.336	1.00	1.00	1.00	1.00	1.00	0.866 *
118 STORAGE				60	60	60	0	20	0.340	1.00	1.00	1.00	1.00	1.00	0.863 *
148 MANAGER				89	89	89	0	13	0.142	1.00	1.00	1.00	1.00	1.00	1.000 *
RTU-1				3,436	3,436	3,436	0	894	0.261	1.00	1.00	1.00	1.00	1.00	0.941 *
125 OFFICE				3,436	3,436	3,436	0	894	0.261	1.00	1.00	1.00	1.00	1.00	0.941 *
117 SECURITY				117	117	117	0	26	0.219	1.00	1.00	1.00	1.00	1.00	0.950 *
117 SECURITY				55	55	55	0	11	0.206	1.00	1.00	1.00	1.00	1.00	0.962 *
130 OFFICE				50	50	50	0	9	0.190	1.00	1.00	1.00	1.00	1.00	0.981 *
124 IT OFFICE				117	117	117	0	25	0.218	1.00	1.00	1.00	1.00	1.00	0.951 *
HP-3				339	339	339	0	71	0.950	1.00	1.00	1.00	1.00	1.00	0.950 *
HP-2				339	339	339	0	71	0.950	1.00	1.00	1.00	1.00	1.00	0.950 *
134 KITCHEN				923	923	923	0	206	0.223	1.00	1.00	1.00	1.00	1.00	0.949 *
131 ALCOVE				93	93	93	0	12	0.129	1.00	1.00	1.00	1.00	1.00	1.000 *
RTU-4				1,015	1,015	1,015	0	218	0.708	1.00	1.00	1.00	1.00	1.00	0.949 *
RTU-4				1,015	1,015	1,015	0	218	0.708	1.00	1.00	1.00	1.00	1.00	0.949 *
121 BANQUET				300	300	300	0	213	0.858	1.00	1.00	1.00	1.00	1.00	0.858 *
HP-1				300	300	300	0	213	0.858	1.00	1.00	1.00	1.00	1.00	0.858 *
AC-1				0	0	0	0	0	0.000	1.00	1.00	1.00	1.00	1.00	0.000 *

Project Name: WS TRAVEL CENTER.tro

TRACE® 700 v8.3.2 calculated at 03:26 PM on 08/02/2018
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 6 of 7

By MFIA Inc.

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-htg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
AC-1		0	0	0	0	0							0.000

Project Name:
Dataset Name: WS TRAVEL CENTER.tro

TRACE® 700 v6.3.2 calculated at 03:26 PM on 08/02/2016
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 7 of 7



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WARM SPRINGS TRAVEL CENTER

Madras, OR

[illegible]

Project Number	1519
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Date AUGUST 22, 2016

Drawn By TB

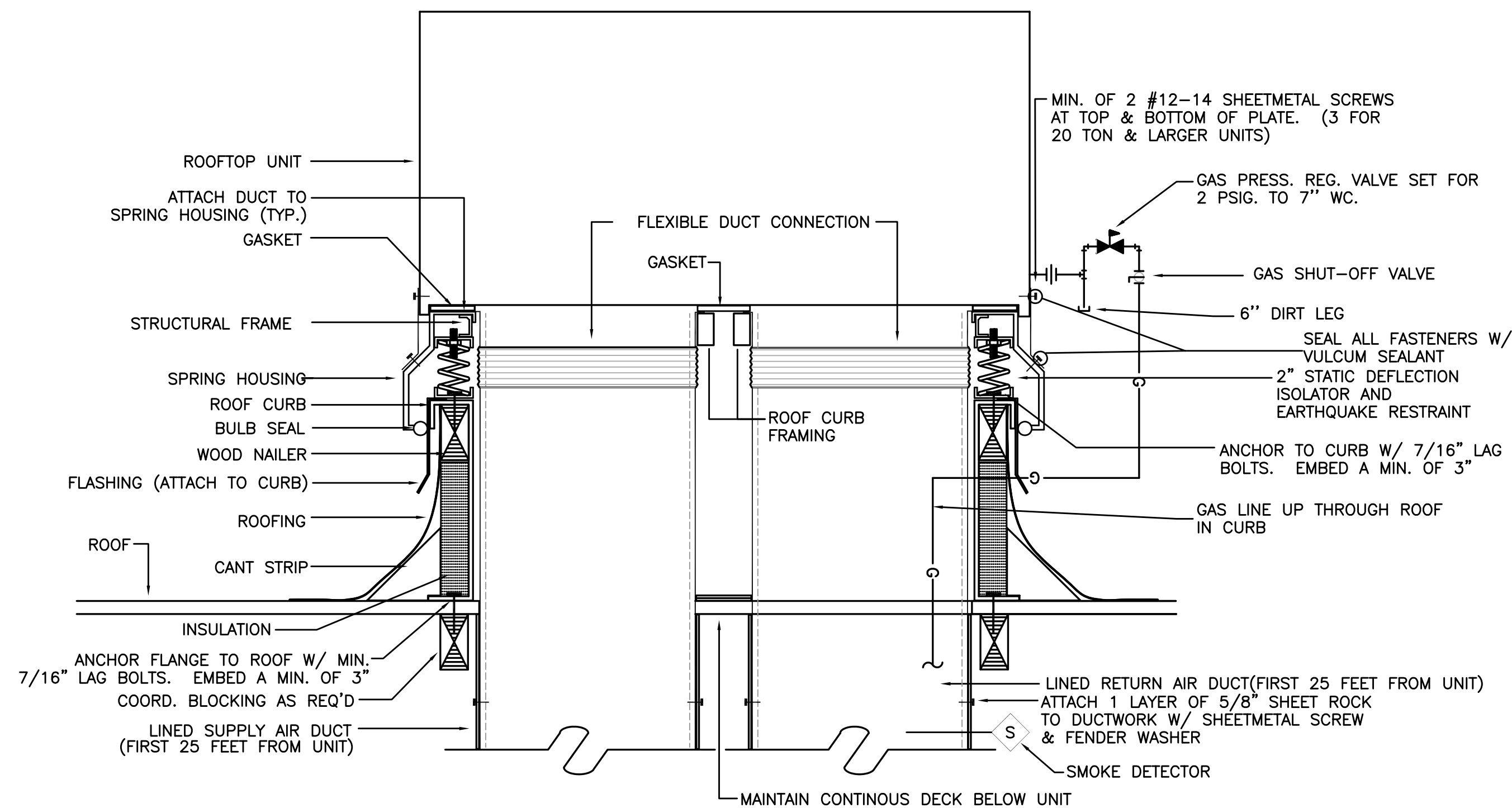
Checked By JVB

MECHANICAL SCHEDULES & DETAILS

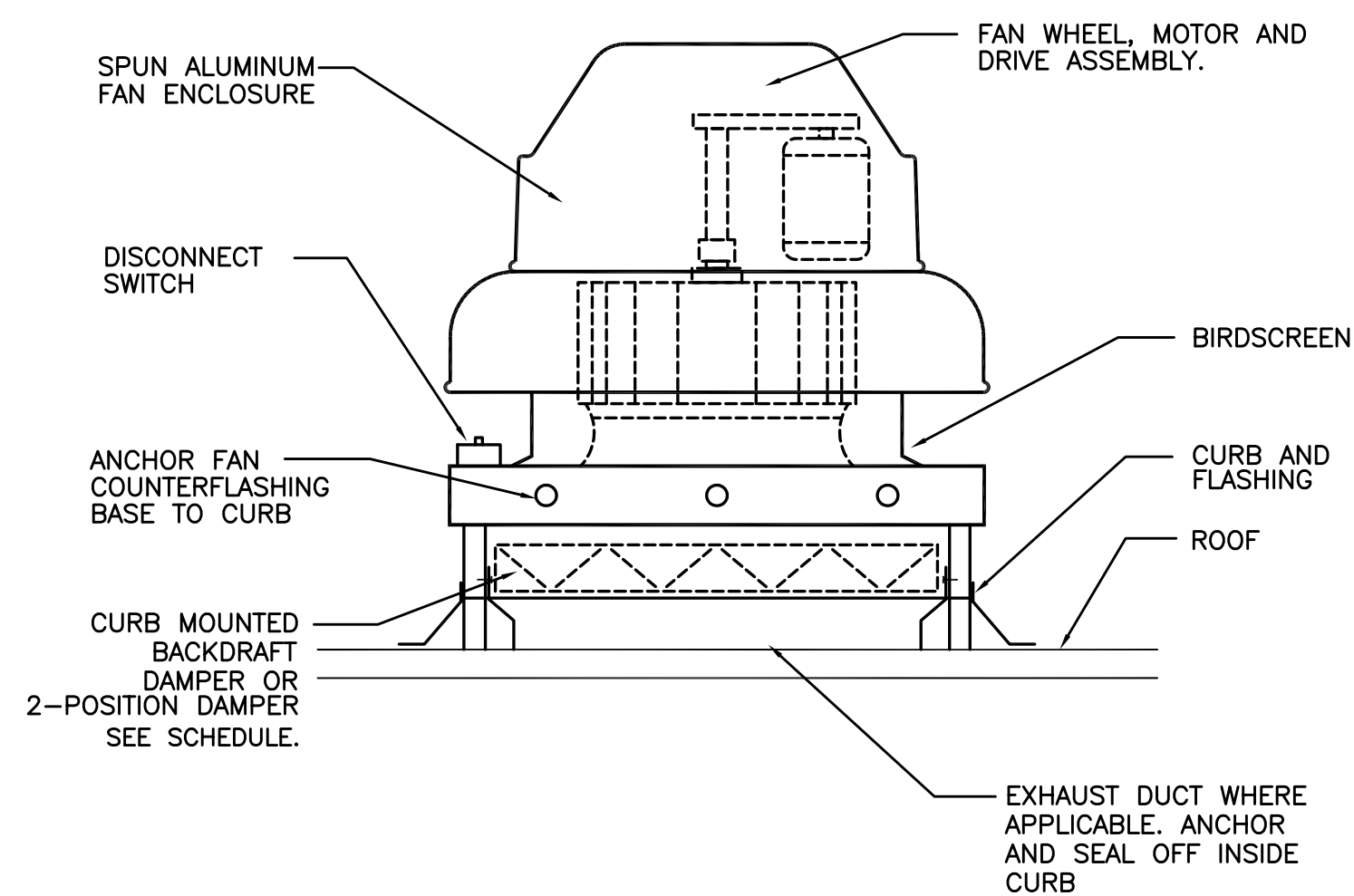
M6.01

PERMIT SET / BID SET

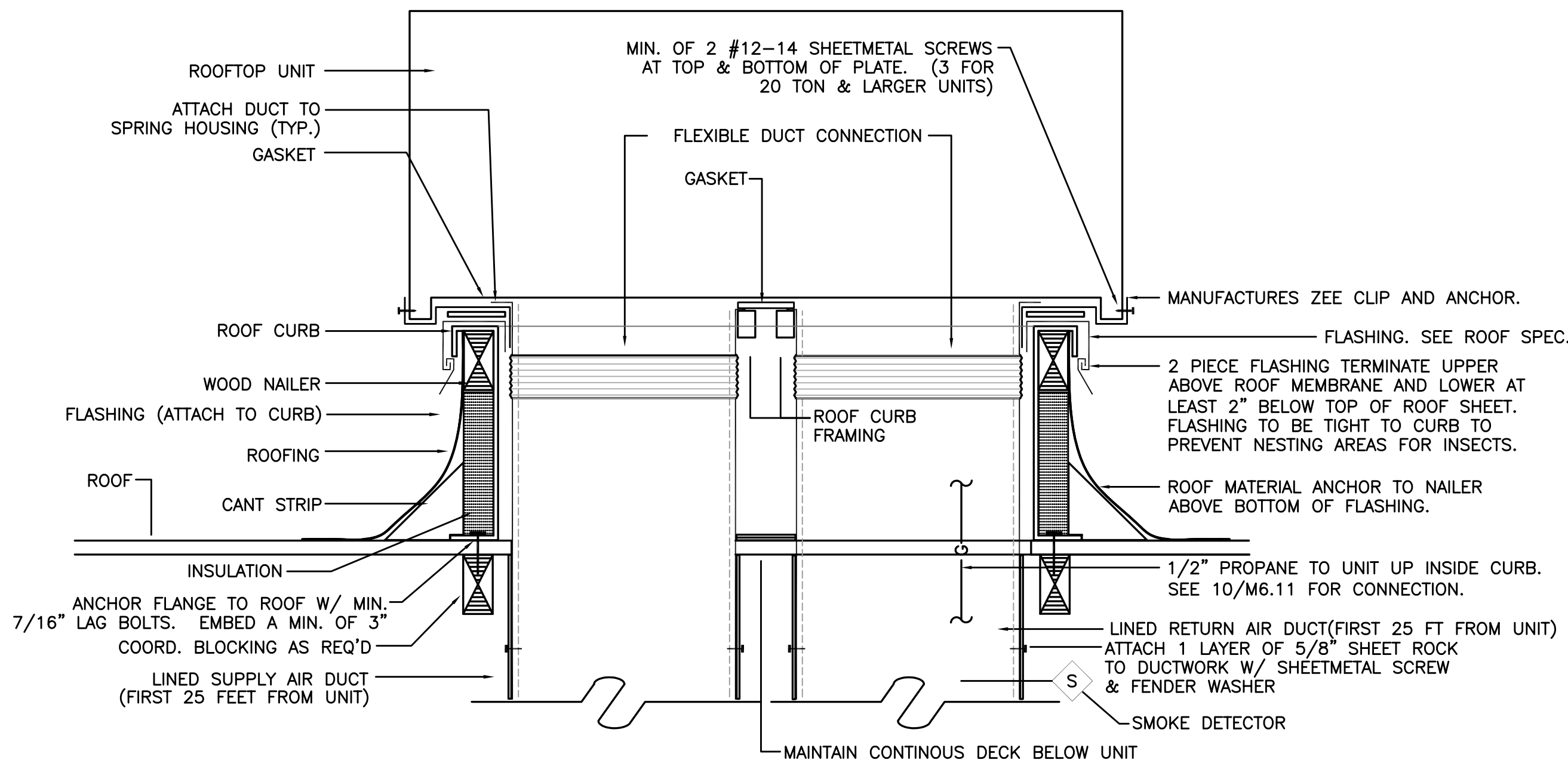
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1 RTU-1 & 2 W/ VIBRATION ISOLATION CURB
M6.02 SCALE: DETAIL

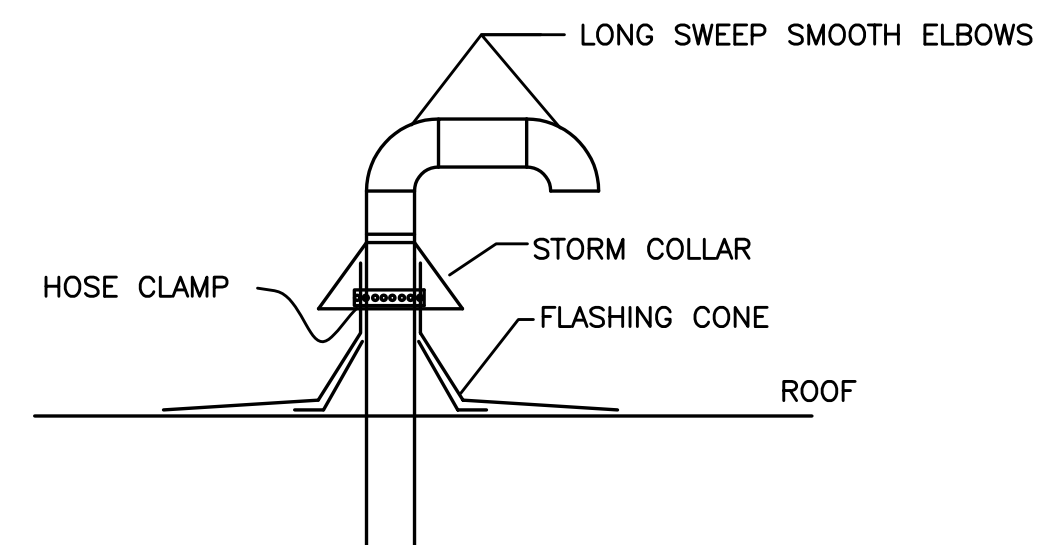
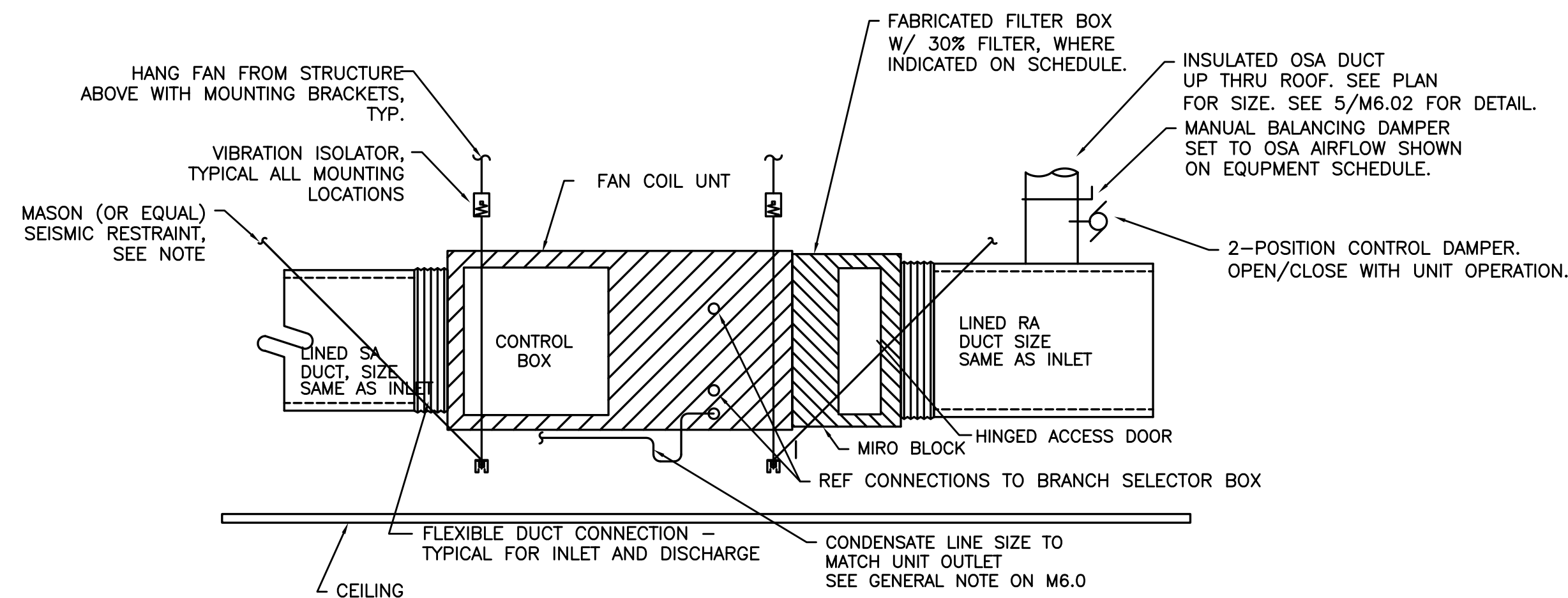


2 RTU-3 & 4 W/ CURB
M6.02 SCALE: DETAIL

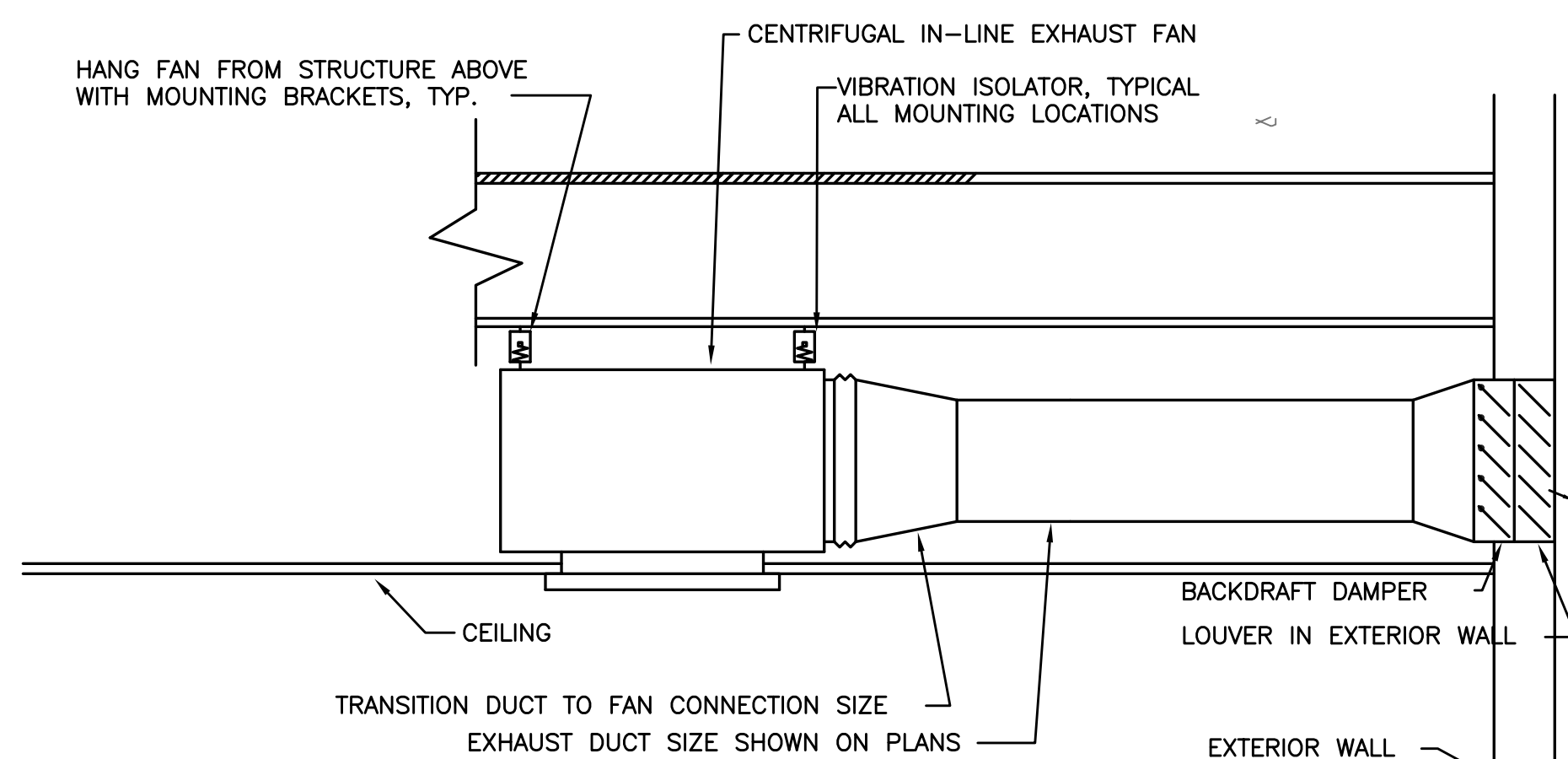


NOTE: LOCATE SUPPORT & SIESMIC TO MAINTAIN UNHINDERED ACCESS FOR MAINTENANCE OF UNIT.

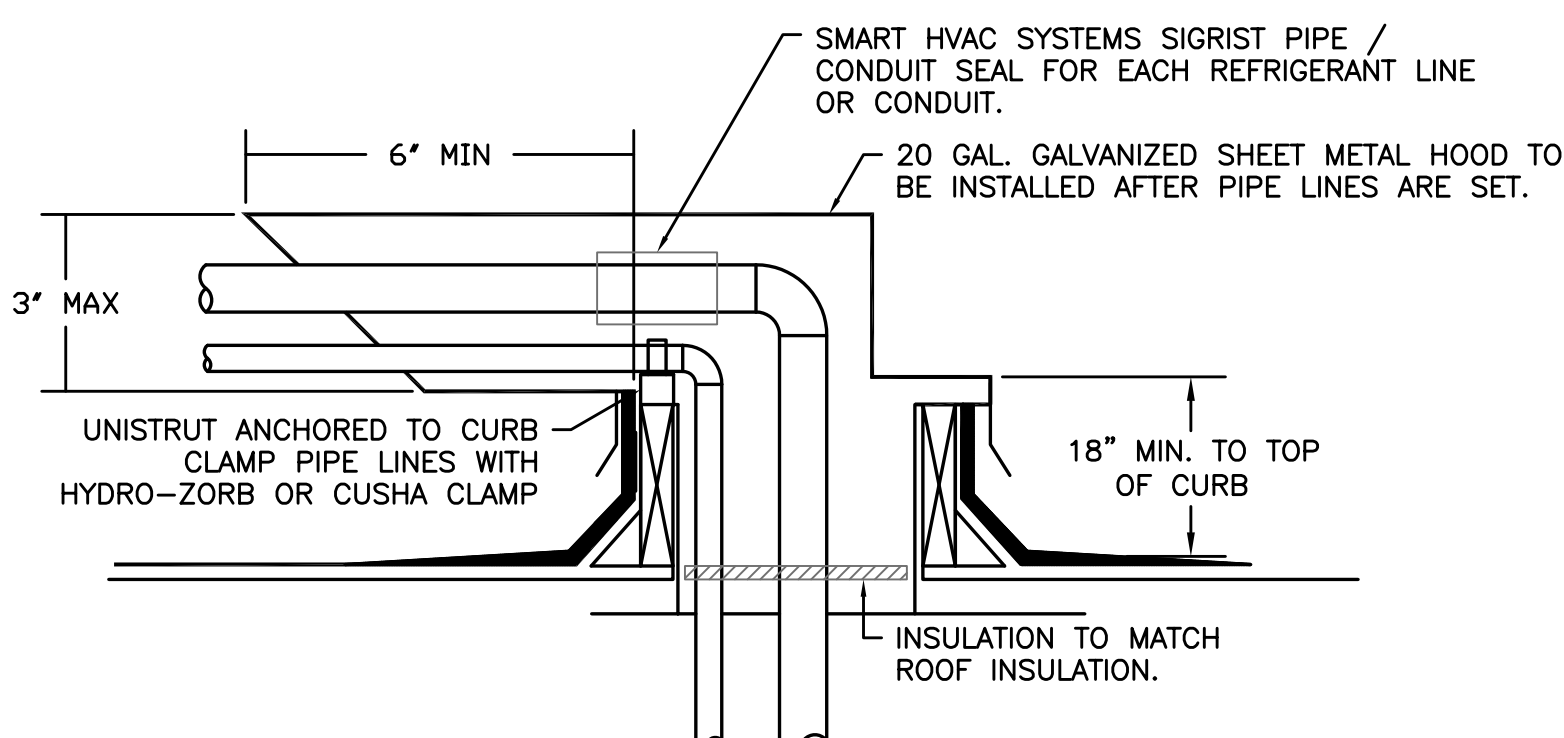
4 DUCTED FAN COIL (IHP)
M6.02 SCALE: DETAIL



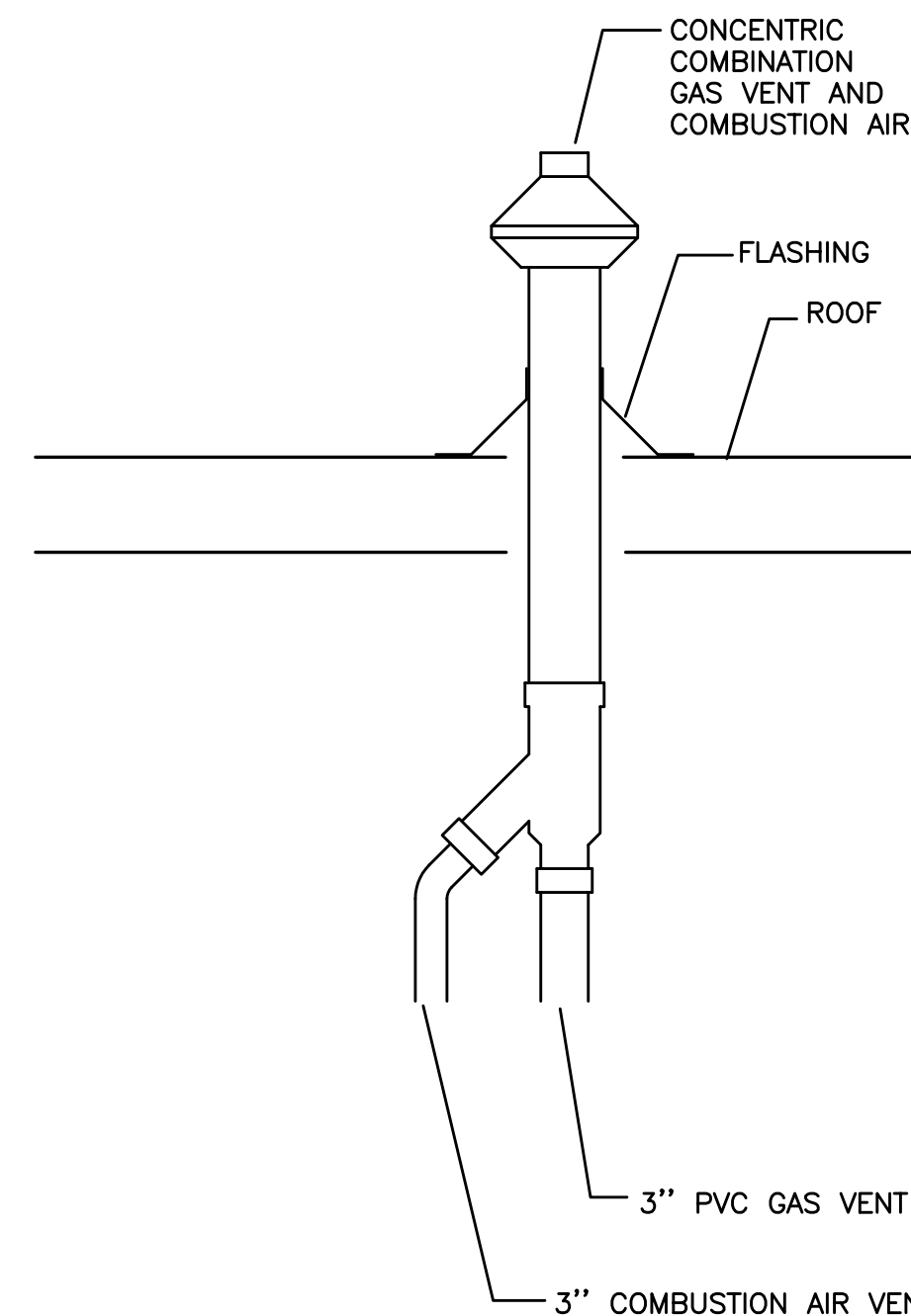
5 OSA INTAKE THRU ROOF
M6.02 DETAIL



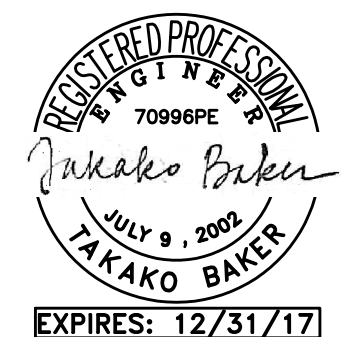
6 RESTROOM EXHAUST FAN
M6.02 SCALE:DETAIL



7 CONCENTRIC GAS VENT
M6.02 SCALE:DETAIL



8 PIPE HOOD DETAIL
M6.02 SCALE: DETAIL



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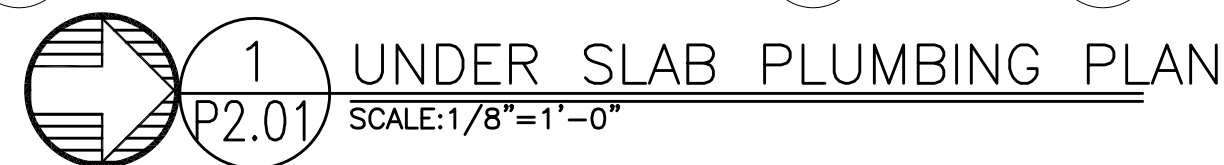
No.	Description	Date

Project Number 1519
Date AUGUST 22, 2016
Drawn By TB
Checked By JVB

MECHANICAL
DETAILS

M6.02

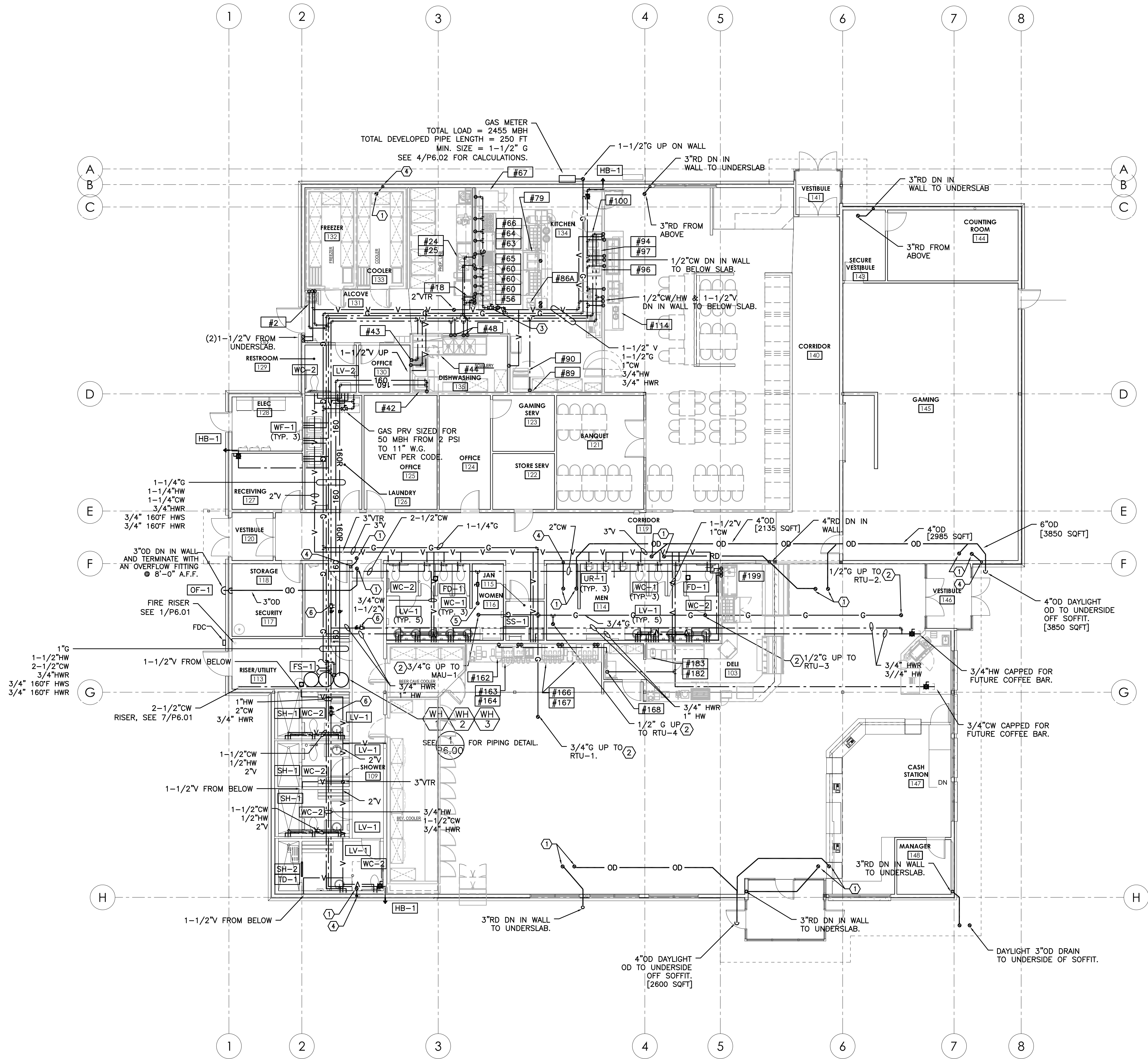
PERMIT SET / BID SET



1. SEE P4.01 FOR CONDENSATE PIPING AND REFRIGERANT PIPING PLAN.
2. SEE 1/M6.03 FOR DUCT SUPPORT.
3. SEE 2/M6.03 FOR PIPE SUPPORT.
4. SEE 3/M6.03 FOR SEISMIC DUCT SUPPORT.
5. SEE 4/M6.03 FOR SEISMIC PIPE SUPPORT.

P2.01

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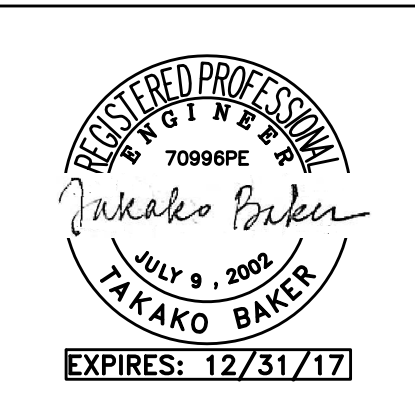


KEYED NOTES:

- ① - 3"RD / OD FROM ABOVE.
- ② - INSTALL GAS PIPE UP THRU CURB TO ROOF TOP EQUIPMENT, AND INSTALL A PRV SIZED FOR EQUIPMENT GAS LOAD FROM 2 PSI TO 7" W.G. SEE 1/M601 AND 2/M601 FOR DETAIL.
- ③ - PRV AND GAS AUTO SHUT-OFF. GAS PRV SIZED FOR 687 MBH FROM 2 PSI SEE 5/P6.01 FOR DETAIL.
- ④ - 3"RD DN IN WALL TO BELOW SLAB.
- ⑤ - 1/2"CW MAKE-UP WATER TO MAKE-UP AIR UNIT ON ROOF. INSTALL WITH DOUBLE CHECK BACK-FLOW PREVENTER.
- ⑥ - GRISWOLD AUTOMATIC FLOW CONTROL VALVE, SET TO 1 GPM.

GENERAL NOTES:

- 1. SEE P4.01 FOR CONDENSATE PIPING AND REFRIGERANT PIPING PLAN.
- 2. SEE 1/M6.03 FOR DUCT SUPPORT.
- 3. SEE 2/M6.03 FOR PIPE SUPPORT.
- 4. SEE 3/M6.03 FOR SEISMIC DUCT SUPPORT.
- 5. SEE 4/M6.03 FOR SEISMIC PIPE SUPPORT.
- 6. SEE 4/P6.02 FOR GAS PIPING ISOMETRIC AND CALCULATIONS.



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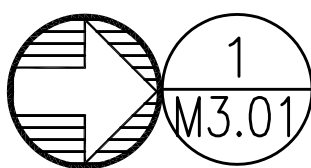
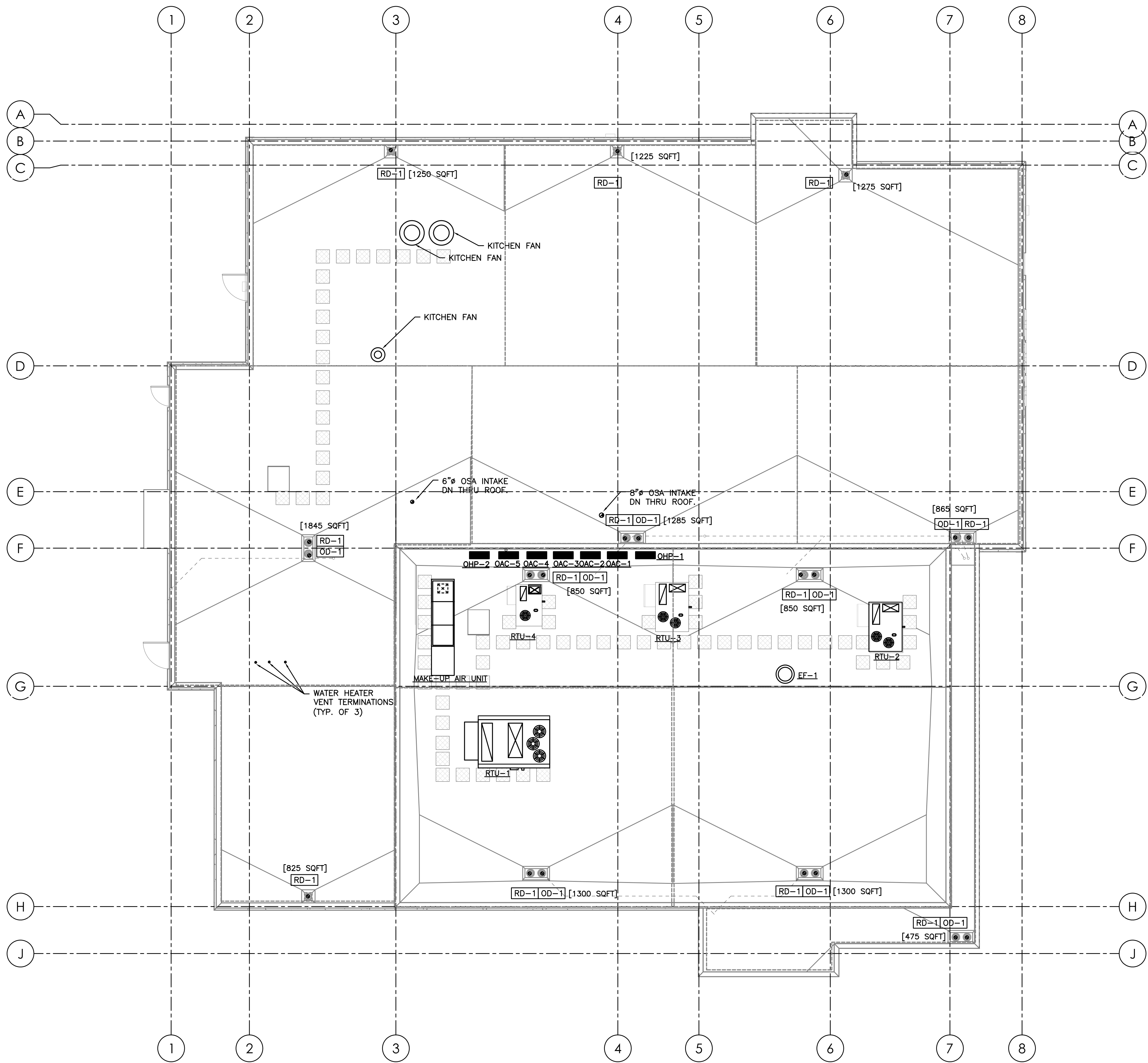
WARM SPRINGS TRAVEL CENTER
Madras, OR

No.	Description	Date

Project Number 1519
Date AUGUST 22, 2016
Drawn By TB
Checked By JVB

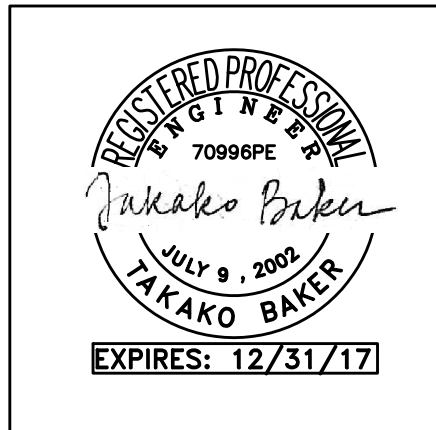
PLUMBING
FLOOR PLAN

P2.02



1 HVAC ROOF PLAN

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



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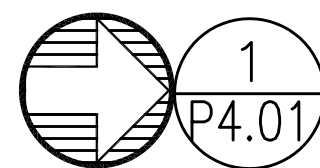
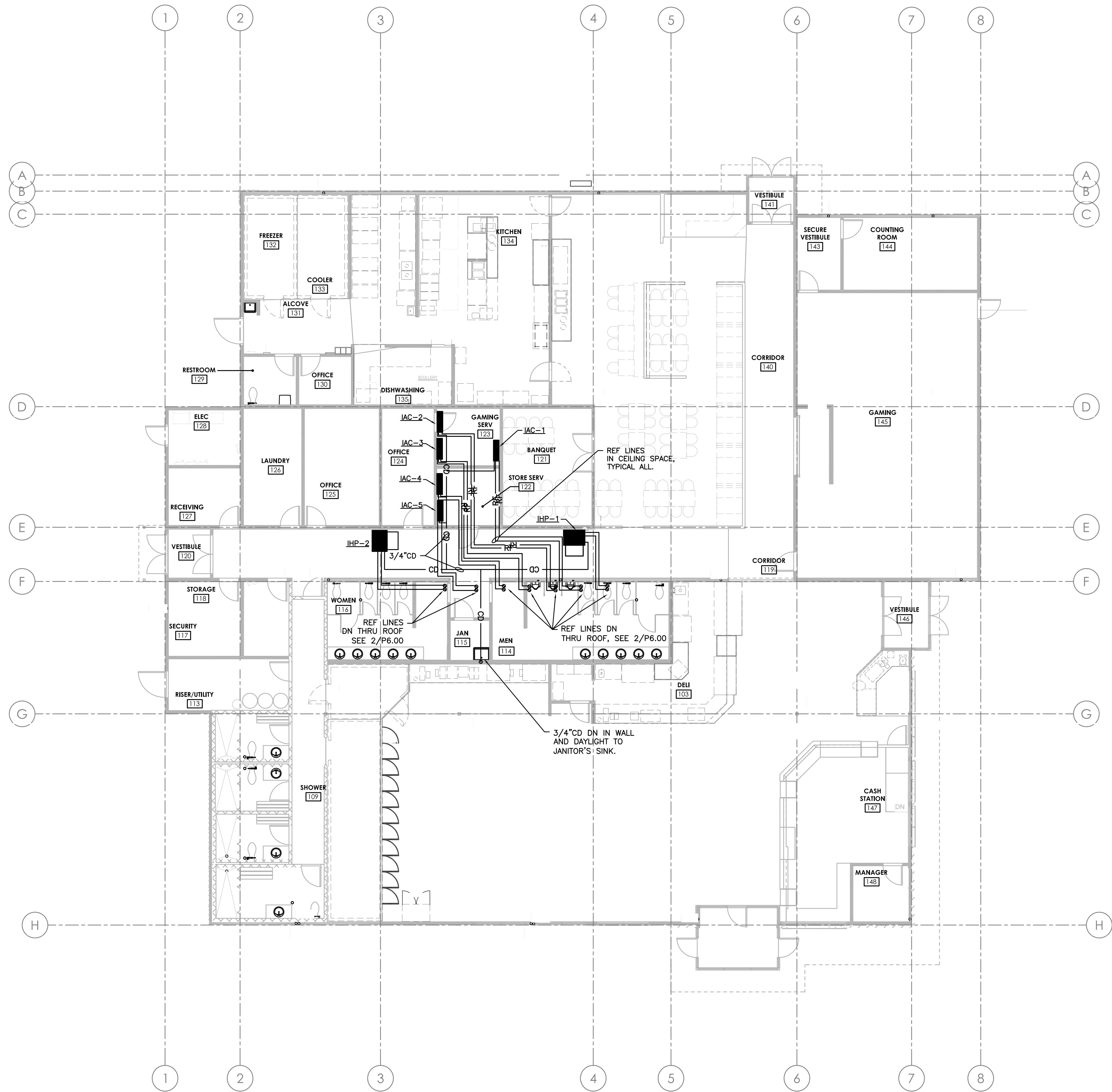
No.	Description	Date

Project Number	1519
Date	AUGUST 22, 2016
Drawn By	TB
Checked By	TB

PLUMBING
ROOF PLAN

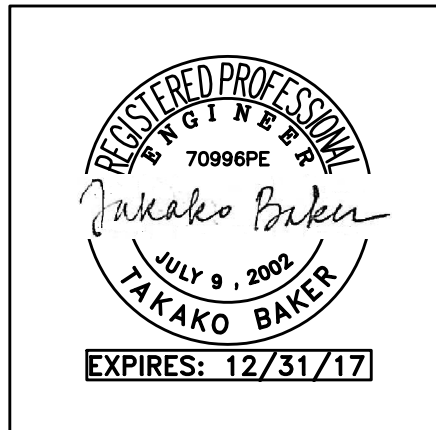
P3.01

PERMIT SET / BID SET



1
P4.01

CONDENSATE DRAIN AND REF PIPING PLAN
SCALE: 1/8" = 1'-0"



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WARM SPRINGS TRAVEL CENTER

Madras, OR

No.	Description	Date

Project Number	1519
Date	AUGUST 22, 2016
Drawn By	TB
Checked By	JVB

CONDENSATE
DRAINS & REF
PIPING PLAN

P4.01

PERMIT SET / BID SET

PLUMBING LEGEND

AFF		ABOVE FINISHED FLOOR	---	---	---	(CW) COLD WATER
ARCH		ARCHITECTURAL	---	---	---	(HW) HOT WATER
B.G.		BELOW GRADE	---	---	---	(HWR) HOT WATER RECIRC
BTU		BRITISH THERMAL UNIT	---	---	---	
CAP.		CAPACITY	---	---	---	
C.I.		CAST IRON	---	---	---	
COMP.		COMPARTMENT	---	---	---	
CONT.		CONTINUATION	---	---	---	
CU.		CUBIC	---	---	---	
DF		DRINKING FOUNTAIN	---	---	---	
DI		DEIONIZED (WATER)	---	---	---	
ELEV.		DIAMETER	---	---	---	
EWC		ELEVATION	---	---	---	
FD		ELECTRIC WATER COOLER	---	---	---	
FDC		FIRE DEPARTMENT CONNECTION	---	---	---	
F.F.		FLOOR DRAIN	---	---	---	
FLG.		FLANGE	---	---	---	
FT		FOOT / FEET	---	---	---	
G		GAS	---	---	---	
GA.		GAUGE	---	---	---	
GALV.		GALVANIZED	---	---	---	
GPM		GALLONS PER MINUTE	---	---	---	
G.V.		GATE VALVE	---	---	---	
HP		HORSEPOWER	---	---	---	
HR.		HOOR	---	---	---	
I.E.		INVERT ELEVATION	---	---	---	
kW		KILOWATT	---	---	---	
LAV		LAVATORY	---	---	---	
LBS		POUNDS	---	---	---	
MAX.		MAXIMUM	---	---	---	
MBH		THOUSANDS OF BTUs PER HOUR	---	---	---	
MIN.		MINIMUM	---	---	---	
M.J.		MECHANICAL JOINT	---	---	---	
N.I.M.		NOT IN MECHANICAL	---	---	---	
OS&Y		OUTSIDE STEM & YOKE	---	---	---	
PROT.		PROTECTION	---	---	---	
PRV		PRESSURE REDUCING VALVE	---	---	---	
P/T		POUNDS PER SQUARE INCH	---	---	---	
PSIG		PRESSURE / TEMPERATURE	---	---	---	
REC'D		REQUIRED	---	---	---	
RPBP		REDUCED PRESSURE BACKFLOW PREVENTER	---	---	---	
RPM		REVOLUTIONS PER MINUTE	---	---	---	
TYP.		TYPICAL	---	---	---	
UR		URINAL	---	---	---	
VTR		VENT THROUGH ROOF	---	---	---	
WC		WATER CLOSET	---	---	---	

		EQUIPMENT MARK NUMBER
		FIXTURE MARK
(E)		EXISTING
#		NOTE
		CONNECT TO EXISTING
		CAP
		TEE
		ELBOW
		CLEANOUT

		PRESSURE/TEMP RELIEF VALVE
		BUTTERFLY VALVE
		GAS PRESSURE REGULATING VALVE
	OR	TOP CONNECTION
		BOTTOM CONNECTION
		PIPE TURNED UP, PIPE TURNED DOWN
		GATE VALVE
	OR	BALL VALVE
		BALANCING VALVE
		CHECK VALVE
		UNION
		DOUBLE CHECK ASSEMBLY

PLUMBING CONNECTION SCHEDULE

MARK	FIXTURE	W	V	CW	HW	REMARKS
WF-1	CLOTHES WASHER FITTING	2"	2"	3/4"	3/4"	Acorn 8185, Guy Gray WB 200/T 200 OR EQUAL
HB-1	HOSE BIB			3/4"		NON-FREEZE, SEE SPECS.
LV-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	COUNTERMOUNT, BATTERY OPERATED
LV-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	WALL MOUNT, ADA; BATTERY POWERED
SH-1	SHOWER	2"	1-1/2"	1/2"	1/2"	SEE SPECS.
SH-2	SHOWER	2"	1-1/2"	1/2"	1/2"	ADA, SEE SPECS.
SS-1	SERVICE SINK	3"	2"	1/2"	1/2"	24"x24" CORNER
WC-1	WATER CLOSET	3"	2"	1"		FLOOR MOUNT, FLUSH VALVE
WC-2	WATER CLOSET	3"	2"	1"		FLOOR MOUNT, FLUSH VALVE, ADA
UR-1	URINAL	2"	1-1/2"	3/4"		WALL MOUNT, BATTERY POWERED
FD-1	FLOOR DRAIN	3"	V.L.			J.R. SMITH 2005A (ROUND) OR EQUAL APPROVED.
FS-1	FLOOR SINK	3"	V.L.			J.R. SMITH 3002 W/ 3/4 GRATE
FS-2	FLOOR SINK	3"	V.L.			J.R. SMITH 3002 W/ 1/2 GRATE
TD-1	TRENCH DRAIN	3"	V.L.			3'-0", SEE SPECS.
OD-1	OVERFLOOR DRAIN	3"	V.L.			J.R. SMITH 1080
RD-1	ROOF DRAIN	3"				J.R. SMITH 1010
OF-1	OVERFLOOR FITTING	3"	V.L.			J.R. SMITH 1770

* PROVIDE W/ WALL CLEAN-OUT BELOW EACH SINK

KITCHEN PLUMBING CONNECTION SCHEDULE*

MARK	FIXTURE	W	V	CW	HW160	HW120	G	REMARKS
#2	MOP SINK FAUCET	2"	1-1/2"	1/2"	-	1/2"	-	
#18	HAND SINK	1-1/2"	1-1/2"	1/2"	-	1/2"	-	
#24	PREP TABLE	-	-	-	-	-	-	1" TO I.D. SINK
#25	PREP SINK FAUCET	-	-	1/2"	-	1/2"	-	
#42	WAREWASHER	-	-	-	3/4"	-	-	1-1/2" I.D. TO FS
#43	PRE-RINSE FAUCET	-	-	1/2"	-	1/2"	-	
#44	DISHTABLE	-	-	-	-	-	-	1-1/2" I.D. & (3/2)" I.D. TO FS
#48	DISHTABLE FAUCET	-	-	1/2"	-	1/2"	-	
#60	GAS FRYER	-	-	-	-	-	3/4"	70 MBH
#63	GRIDDLE RANGE	-	-	-	-	-	3/4"	81 MBH
#64	CHEESE MELTER	-	-	-	-	-	3/4"	24 MBH
#65	BROILER	-	-	-	-	-	3/4"	68 MBH
#66	BURNER RANGE	-	-	-	-	-	3/4"	215 MBH
#67	CONVECTION OPEN	-	-	-	-	-	(2)3/4"	(2)45 MBH
#79	HOT FOOD TABLE	-	-	1/2"	-	-	-	
#86	WORK TABLE	-	-	-	-	-	-	1-1/2" I.D. TO FS
#86A	WORK TABLE FAUCET	-	-	1/2"	-	1/2"	-	1-1/2" I.D. TO FS
#89	ICE MAKER FILTER	-	-	1/2"	-	-	-	
#90	ICE MAKER	-	-	1/2"	-	-	-	1/2" I.D. TO FS, FED FROM FILTER #89
#93	BEV TBL WITH HAND SINK	1-1/2"	1-1/2"	-	-	-	-	
#94	BEER DISPENSER	-	-	-	-	-	-	1" I.D. TO FS
#96	COFFEE MAKER	-	-	1/4"	-	-	-	
#97	SOFT DRINK DISPENSER	-	-	1/2"	-	-	-	1" I.D. TO FS, THRU FILTER
#100	HAND SINK FAUCET	-	-	1/2"	-	1/2"	-	
#113	REFRIGERATED COLD PAN	-	-	-	-	-	-	1" I.D. F.S.
#114	HOT WELLS	-	-	1/4"	-	-	-	1" I.D. TO FS

* PROVIDED BY FOOD SERVICE CONTRACTOR. SEE FOOD SERVICE PLANS FOR ROUGH-IN DIMENSIONS AND DETAILS.

GAS WATER HEATERS

MARK NUMBER	WH 1	WH 2	WH 2
FUEL	NATURAL GAS		
CAPACITY (GAL)	100	100	100
INPUT RATE (MBH)	199	199	199
RECOVERY CAP. @ 100F TR (GPH)	239	239	239
EFFICIENCY (%)	94	94	94
GAS VENT/COMBUSTIOIN AIR DIA.	3" PP	3" PP	3" PP
DESIGN WEIGHT (LBS)	1283	1283	1283
BASIS OF DESIGN: BRADFORD WHITE	ET-100T-199		

GREASE INTERCEPTOR

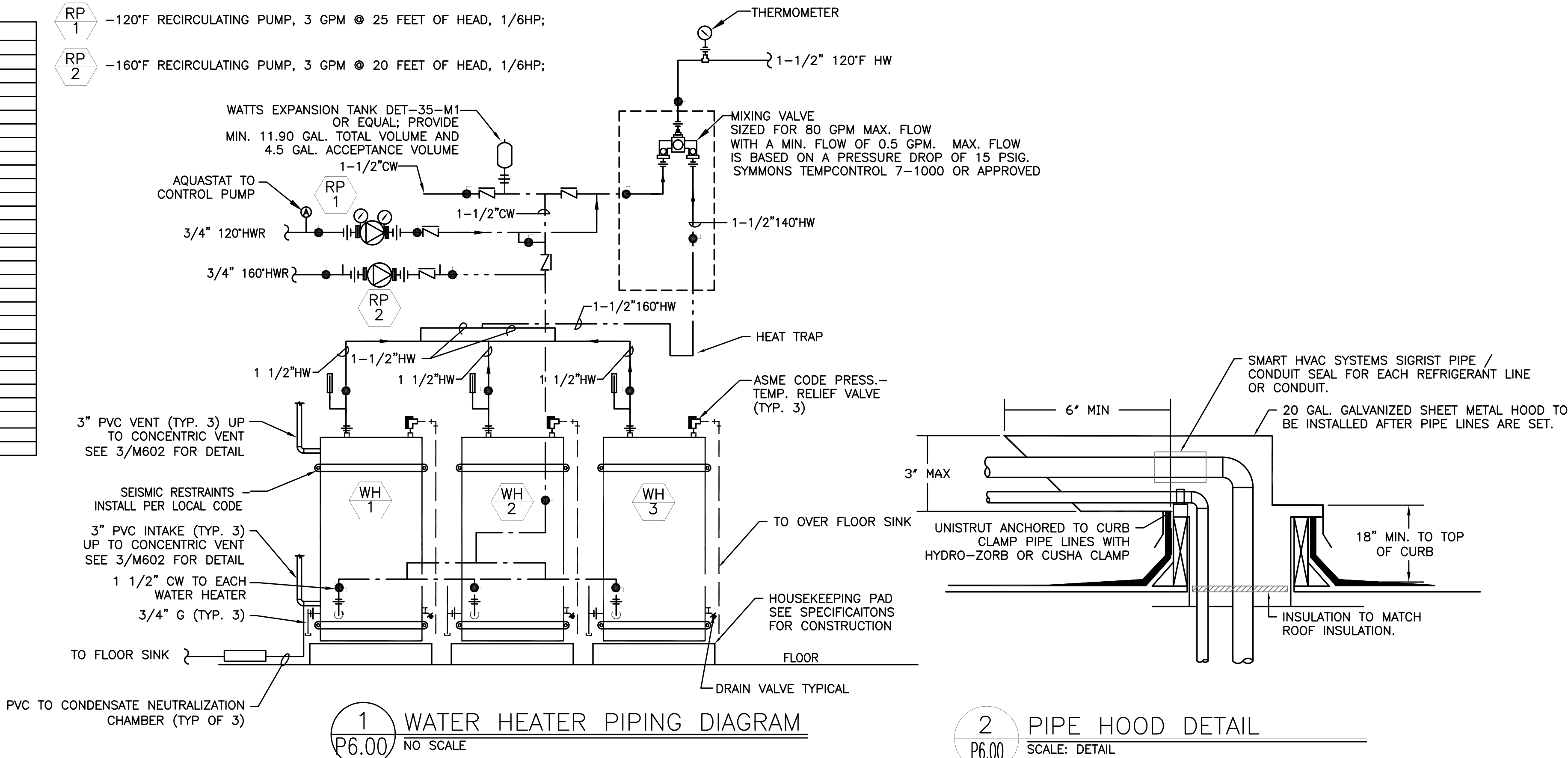
MARK NUMBER	GT 1	NOTES 1, 2, 3
SERVICE	KITCHEN	
CAPACITY (GPM)	100 GPM	
GREASE (LB)	1,076 LBS	
INLET/OUTLET PIPE SIZE	4"	
DESIGN WEIGHT-WET (LBS)	2313 LBS	
BASIS OF DESIGN	SCHIER GB-250	
QTY	1	

NOTES:

1. PROVIDE WITH SR24 TELEGLIDE RISER ADAPTER AND SV-24 SAMPLING PORT.
2. PROVIDE WITH HIGHWAY RATED COVER.(GT-1 & SAMPLING PORT)
3. PROVIDE WITH BUILT IN FLOW CONTROL & BUILT IN TEST CAP

PLUMBING CALCULATIONS		DOMESTIC WATER SERVICE			SANITARY WASTE SERVICE	
FIXTURE TYPE	NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS
CLOTHES WASHER	3	4	12	9	9	3
LAVATORY (SINGLE)	15	1	15	11.25	11.25	1
MOP BASIN	2	3	6	4.5	4.5	3
RECEPTOR (INDIRECT WASTE)	13	---	---	---	---	2
SHOWERS (STALL)	4	2	8	6	6	2
URINAL (1.0 GPF, GENERAL USE)	3	4	12	12	0	2
WATER CLOSET (1.6 GPF FLUSHMETER VALVE-GENERAL)	13	5	65	65	0	4
HOSE BIBB (FIRST ONE)	1	2.5	2.5	2.5	0	---
HOSE BIBB (EACH ADDITIONAL)	2	1	2	2	0	---
KITCHEN HANDSINKS	3	1.5	4.5	3.375	3.375	2
PRE-RINSE	3	1.5	4.5	3.375	3.375	---
MAKE-UP WATER	1	0.5	0.5	0.5	---	---
DISHWASHER (INDEPENDENT DRAIN)	1	1.5	1.5	---	1.5	---
PREP TABLE FAUCET	1	1.5	1.5	1.125	1.125	---
ICE MAKER	1	0.5	0.5	0.5	---	---
KITCHEN BEVERAGE CONNECTIONS	1	0.5	0.5	0.5	---	---
HOT WELL	1	0.5	0.5	0.5	---	---
FILL FAUCET	1	0.5	0.5	0.5	---	---
TOTAL	69		137	112.25	39	128
		GPM	78			WASTE SIZE 4"

Grease Interceptor Calculations			
FIXTURE TYPE	NUMBER OF FIXTURES	DRAINAGE FIXTURE UNITS	TOTAL DFU
HANDSINK	3	2	6
FLOOR SINKS (INDIRECT WASTE - <7.5 GPM)	8	2	16
FLOOR SINKS (INDIRECT WASTE) 15-30 GPM	1	6	6
FLOOR DRAINS	8	2	16
		TOTAL	44
HYDROMECHANICAL INTERCEPTOR (MIN. SIZE)		100	GPM



1 WATER HEATER PIPING DIAGRAM
P6.00 NO SCALE

2 PIPE HOOD DETAIL
P6.00 SCALE: DETAIL



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WARM SPRINGS TRAVEL CENTER
Madras, OR

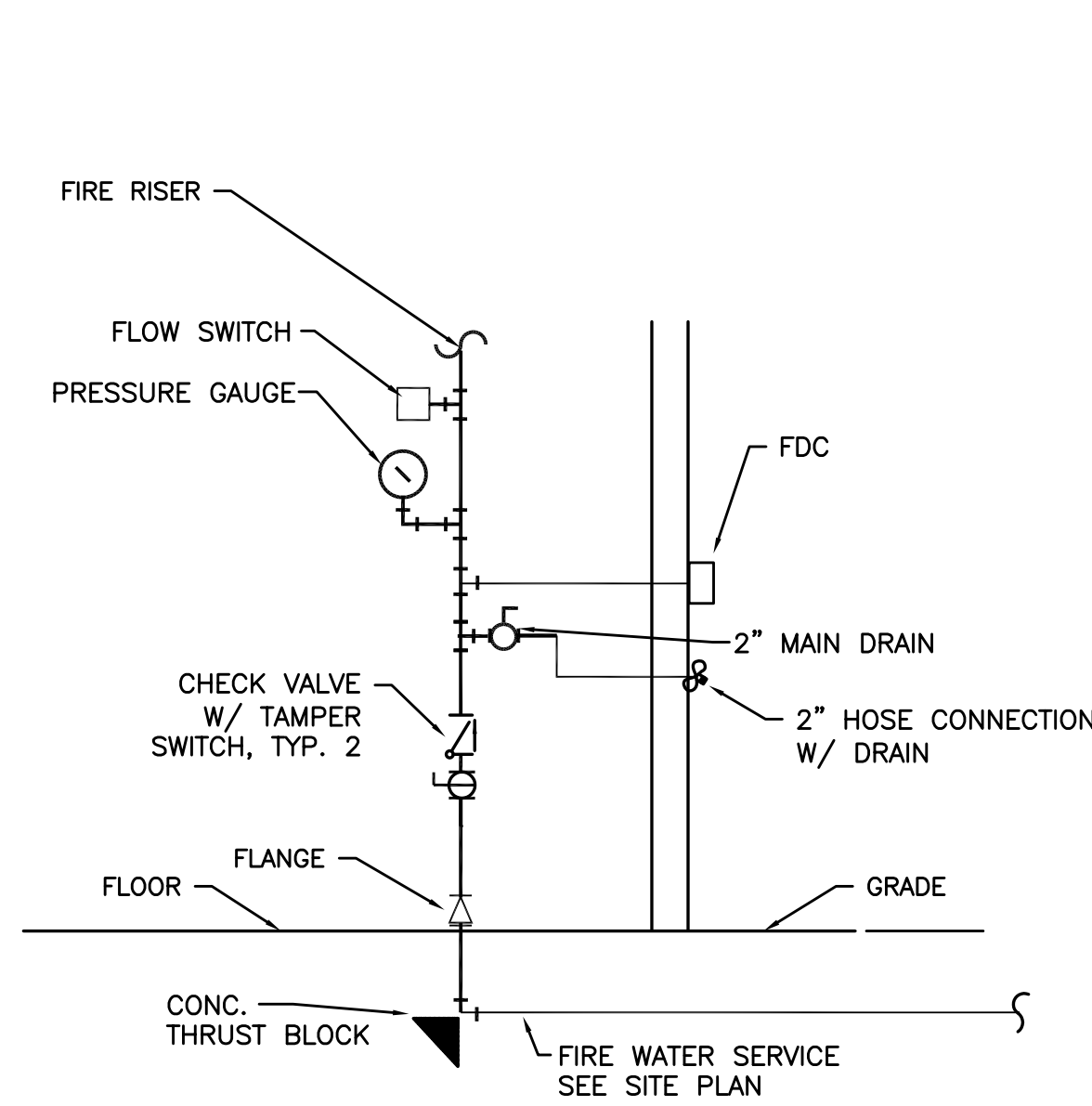
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Description				
No.				

Project Number 1519
Date AUGUST 22, 2016
Drawn By TB
Checked By JVB

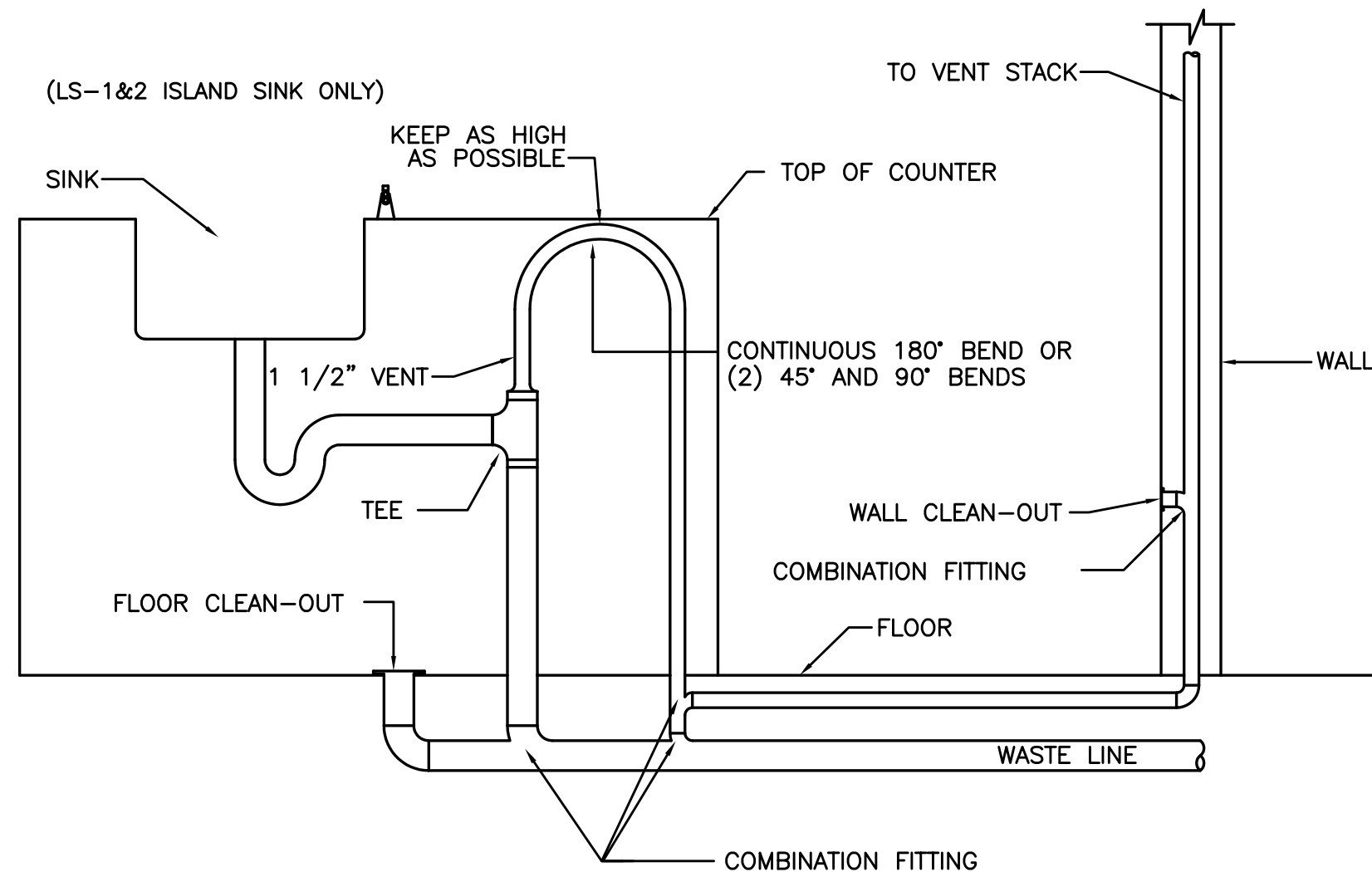
PLUMBING
LEGEND &
DETAILS

P6.00

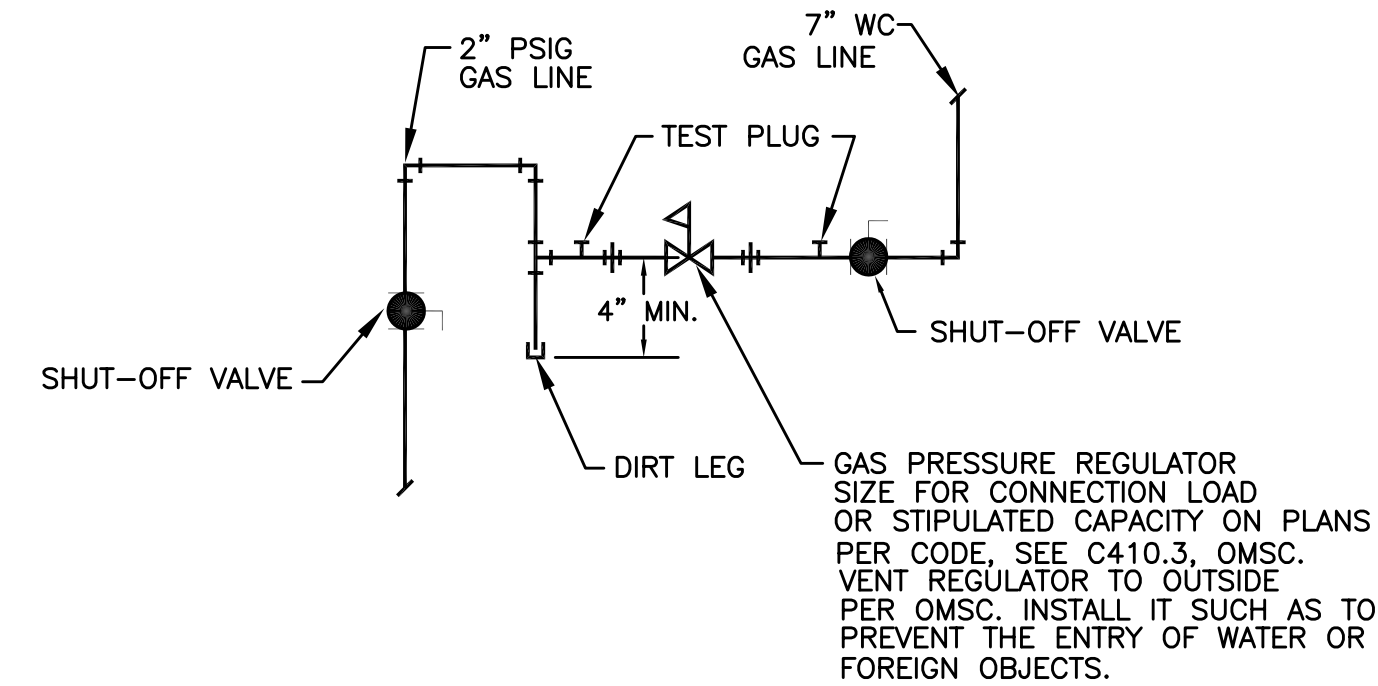
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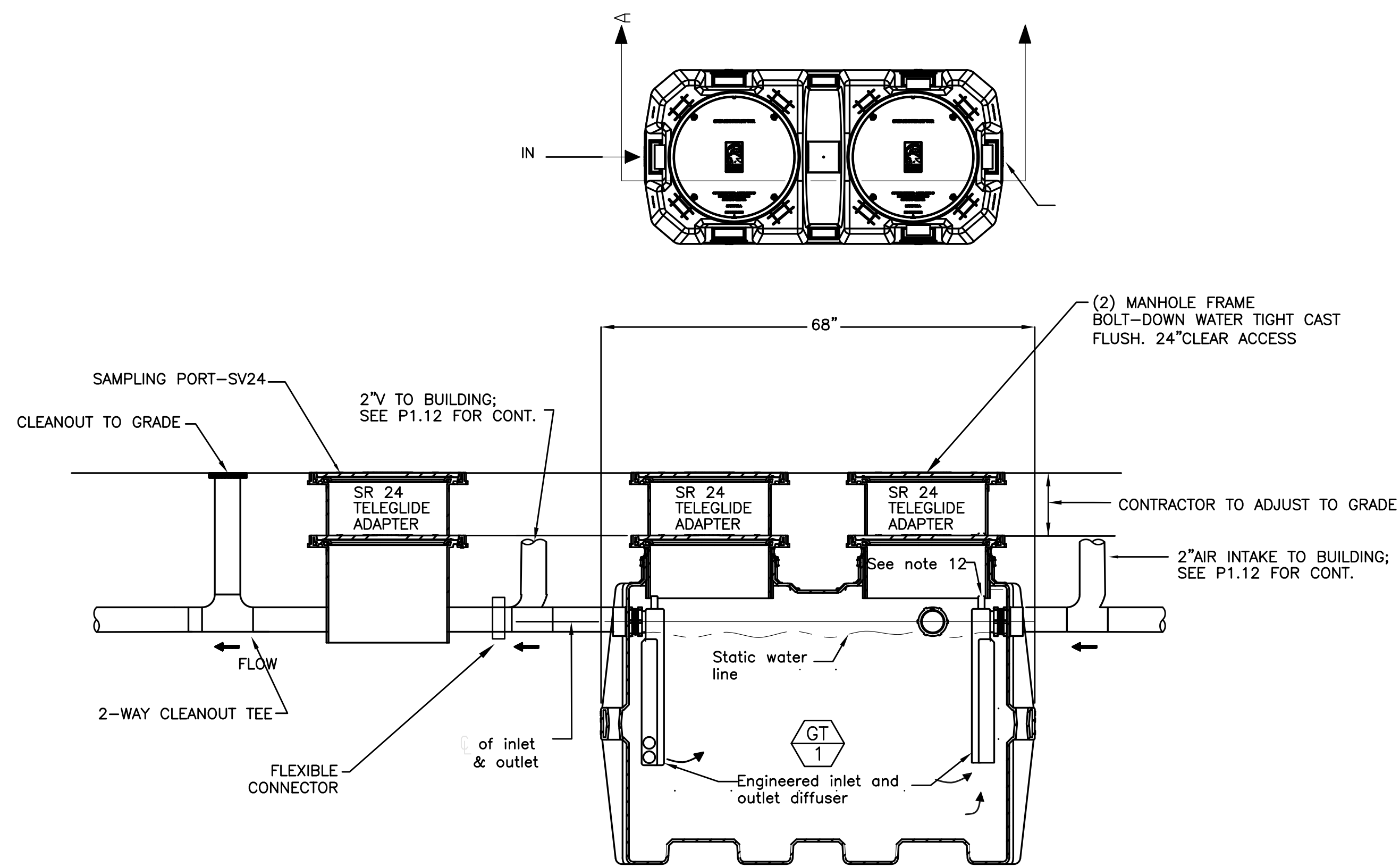
1 FIRE RISER DIAGRAM
P6.01 NO SCALE



2 ISLAND SINK
P6.01 SCALE: DETAIL

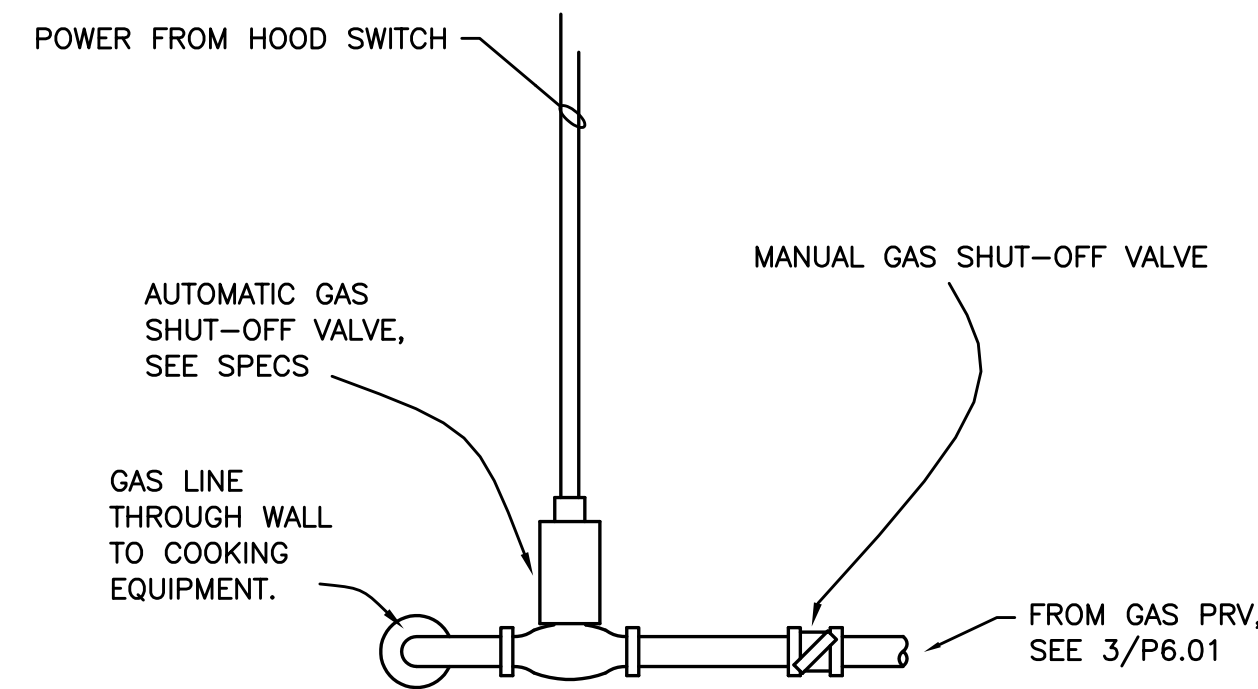


3 GAS PRV DETAIL
P6.01 NTS

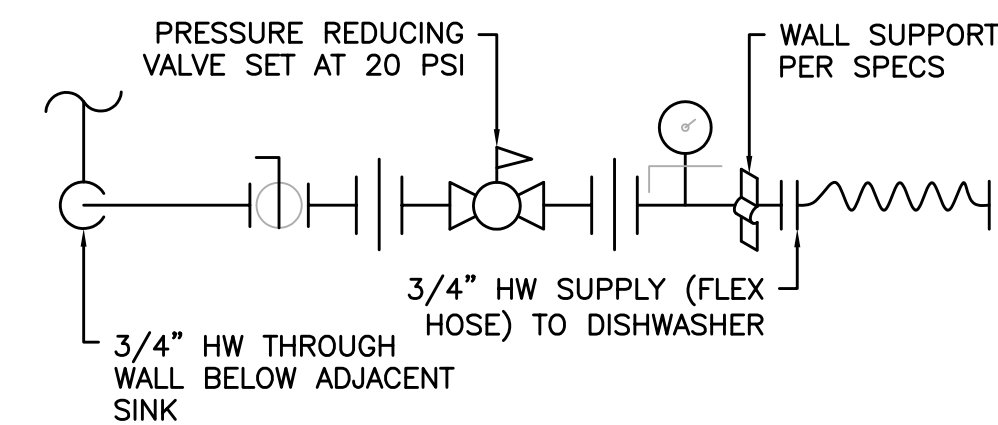


- NOTES
1. THE INTERCEPTOR SHALL BE CERTIFIED BY ASME #A112.14.3 AND LISTED BY IAPMO.
 2. THE INTERCEPTOR SHALL HAVE 3/8" THICK SEAMLESS HIGH DENSITY POLYETHYLENE WALLS.
 3. PROVIDE RISER EXTENSIONS FOR UNIT AND SAMPLING PORT TO ACCOMMODATE BURIAL DEPTH.
 4. PROVIDE COVER IN ACCESSIBLE AREA TO ALLOW FULL ACCESS TO TANK FOR PROPER MAINTENANCE.
 5. THE UNIT SHOULD INCORPORATE INTEGRAL AIR RELIEF/ANTI-SIPHON.
 6. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 2,000 LBS LOAD CAPACITY.

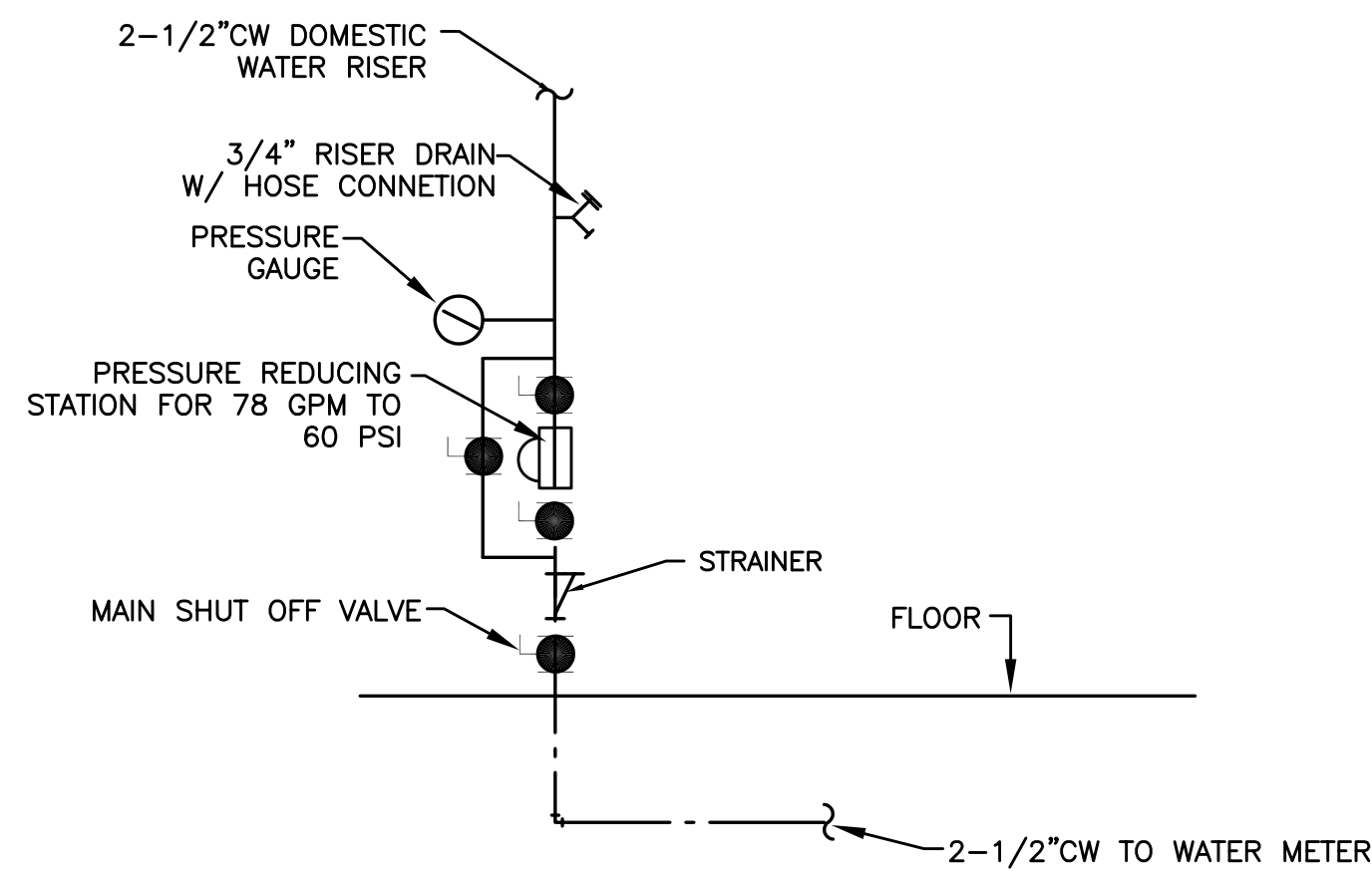
4 GREASE INTERCEPTOR DETAIL
P6.01 NOT TO SCALE



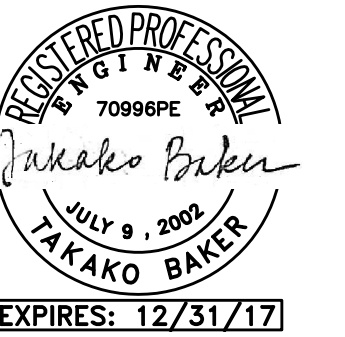
5 AUTO GAS SHUT-OFF ASSEMBLY
P6.01 SCALE: NONE



6 DISHWASHER CONNECTION
P6.01 SCALE: NONE



7 DOMESTIC WATER RISER
P6.00 NTS



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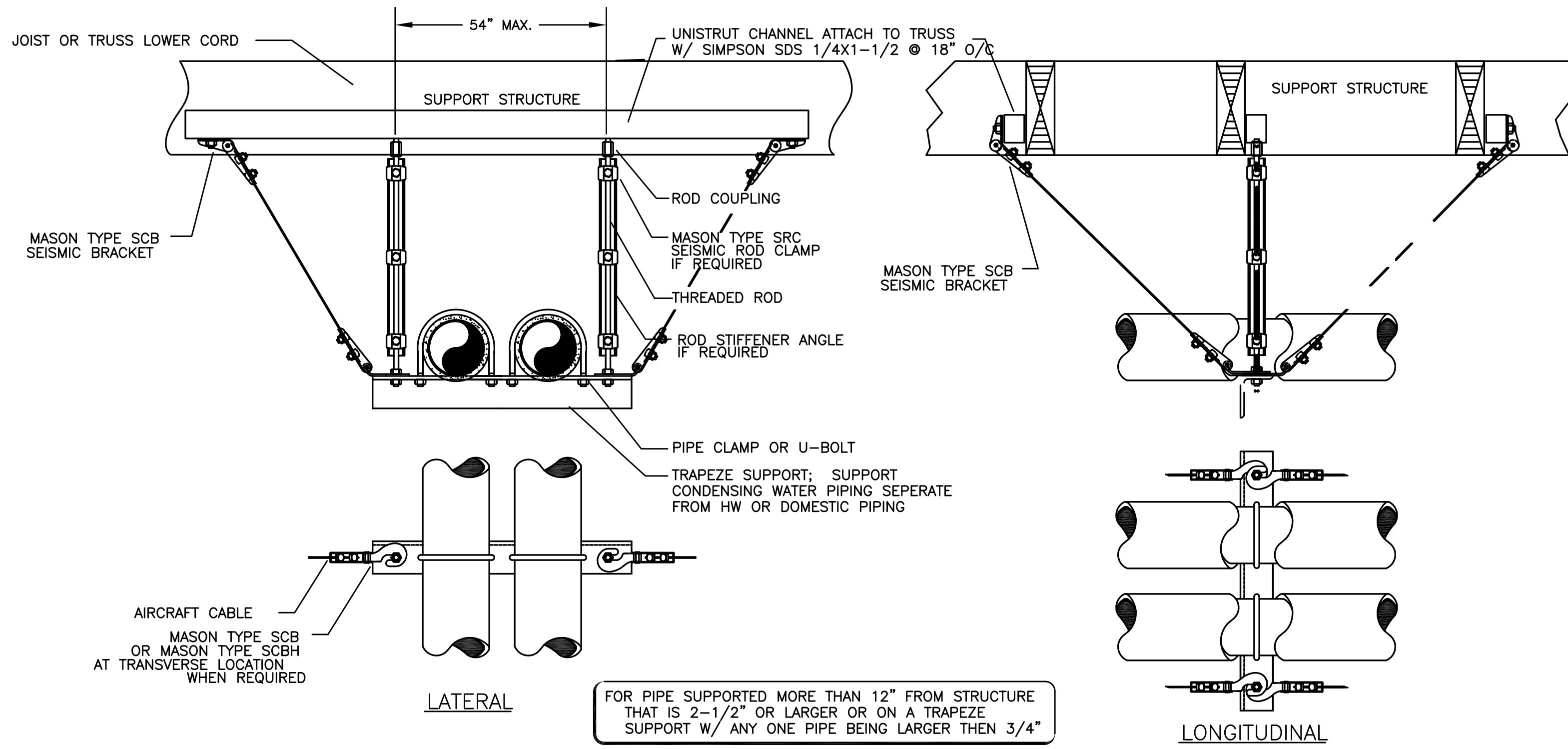
Project Number	1519
Date	AUGUST 22, 2016
Drawn By	TB
Checked By	JVB

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DETAILS

P6.01

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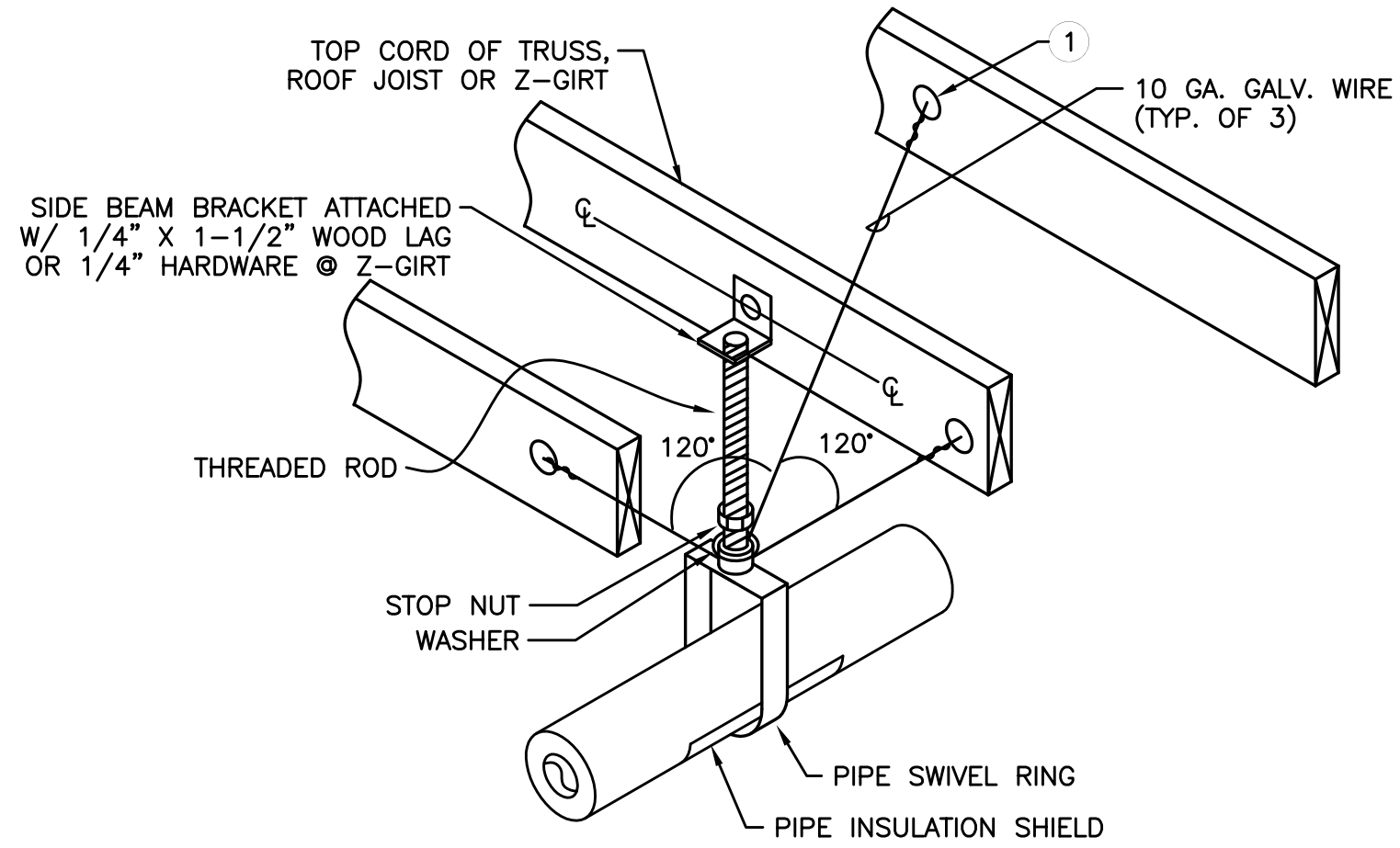
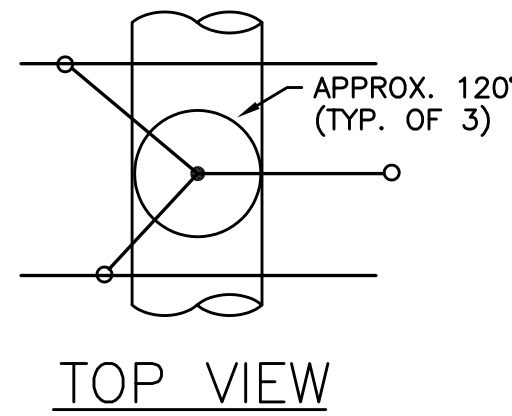


1 SEISMIC PIPE SUPPORT
SCALE: DETAIL

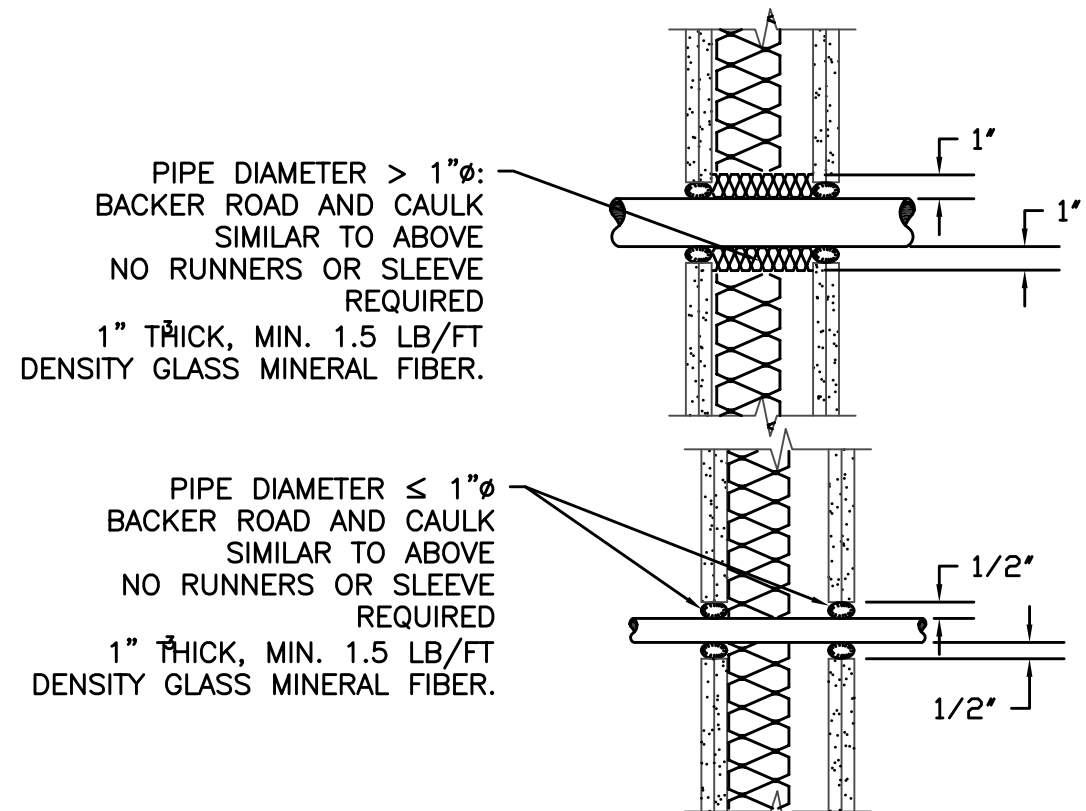
2/P6.02 NOTES

1 - 1/4" GALV. THREADED EYE BOLT @ CENTER OF WOOD MEMBER (TYP. OF 3). FOR Z-GIRT USE MACHINE THREAD EYE BOLT W/ JAMB NUT & 1/4" WASHER @ EACH SIDE OF GIRT

* - MAXIMUM HANGER SPACING SHALL BE AS FOLLOWS:
1-1/4" AND SMALLER PIPE 7' SPAN
1-1/2" PIPE 9' SPAN



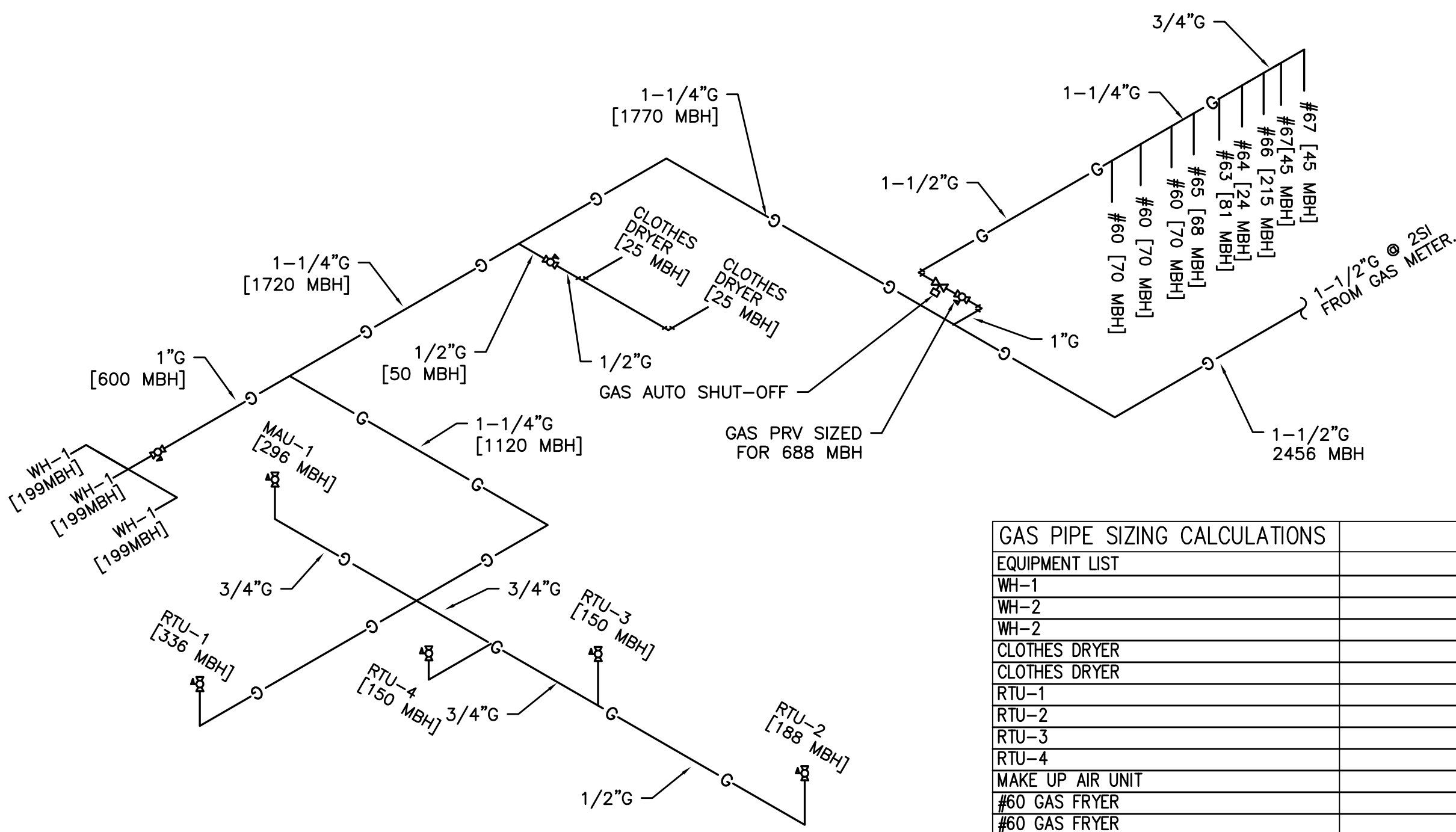
2 NON-SEISMIC PIPE SUPPORT
SCALE: DETAIL



3 PIPE/CONDUIT PENETRATION DRYWALL CONSTRUCTION
TO BE APPLIED TO WALLS WITH STC ≥49

SEE ARCHITECTURAL DRAWINGS FOR ACOUSTICALLY IMPORTANT WALLS (WALL TYPES). SEAL PENETRATIONS IN THOSE WALLS PER THESE DETAILS

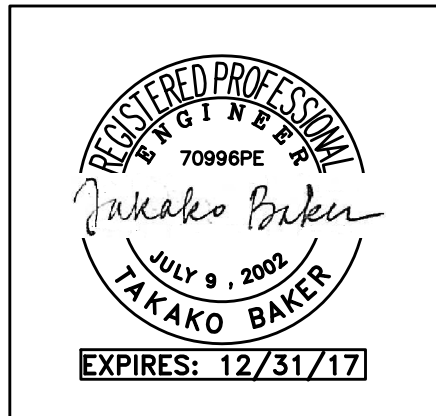
3 ACOUSTIC DETAIL
SCALE: DETAIL



4 GAS PIPING DIAGRAM/CALCS
SCALE: DETAIL

GAS PIPE SIZING CALCULATIONS	
EQUIPMENT LIST	CFH
WH-1	199
WH-2	199
WH-3	199
WH-4	199
CLOTHES DRYER	25
CLOTHES DRYER	25
RTU-1	336
RTU-2	168
RTU-3	150
RTU-4	150
MAKE UP AIR UNIT	296
#60 GAS FRYER	70
#60 GAS FRYER	70
#60 GAS FRYER	70
#60 GAS FRYER	70
#63 GRIDDLE	81
#64 CHEESE MELTER	24
#65 BROILER	68
#66 RANGE WITH OVEN	215
#67 CONVECTION OVEN	45
#67 CONVECTION OVEN	45
TOTAL LOAD	2455

OMSC 2014, TABLE C402.14(2)
PRESSURE 2 PSI
TOTAL DEVELOPED PIPE LENGTH 250 FEET
MINIMUM MAIN PIPE SIZE 1-1/2"



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