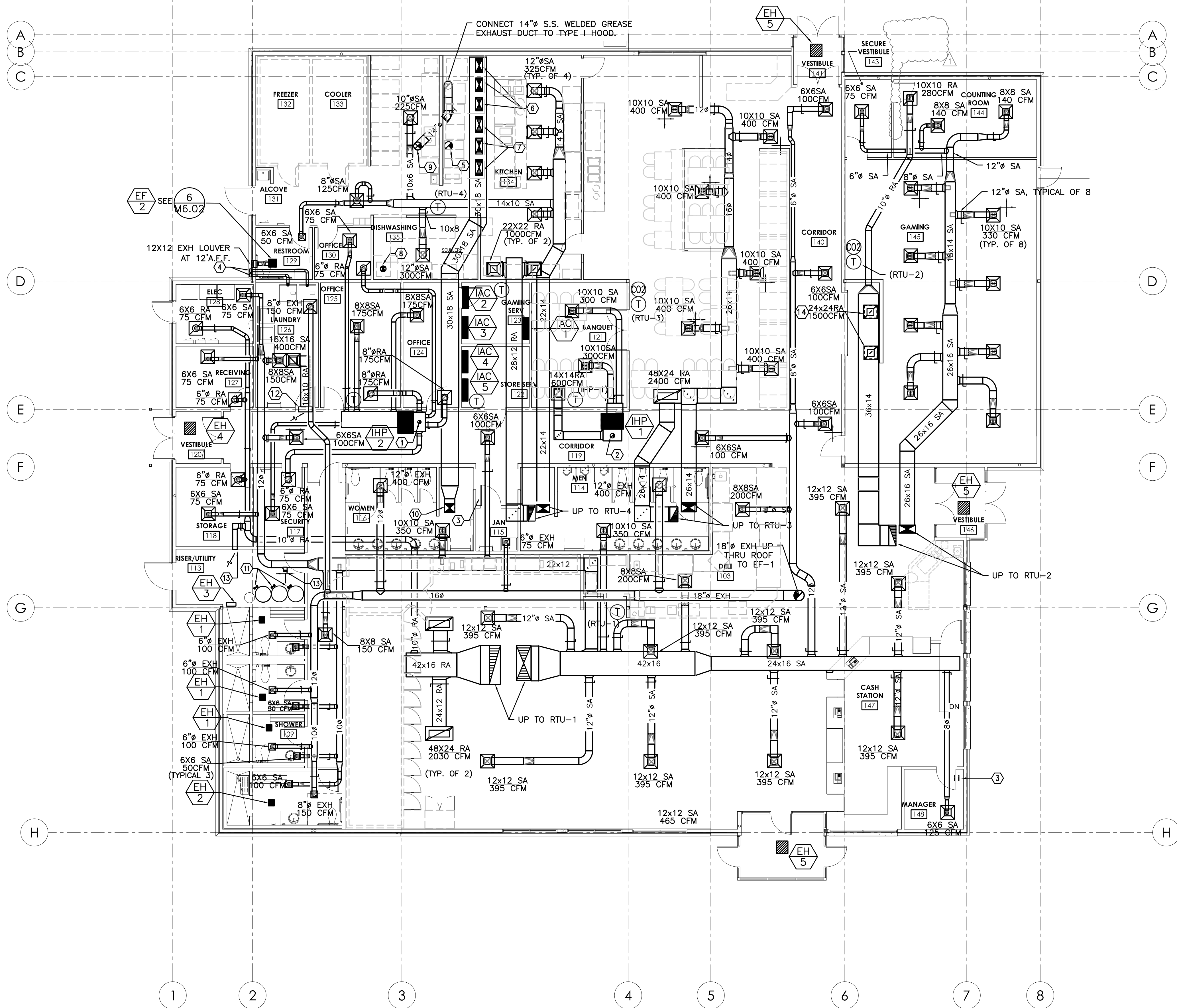


KEYED NOTES:

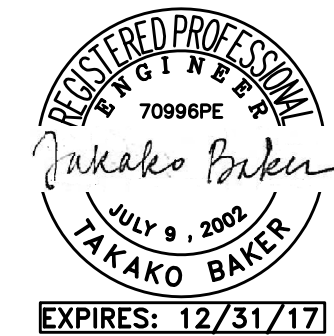
- 1 - 6" INSULATED OSA DUCT UP THRU ROOF WITH A MANUAL BALANCING DAMPER AND A 2-POS CONTROL DAMPER. SEE 8/M6.02 FOR DETAIL. SEE EQUIPMENT SCHEDULE FOR OSA AIRFLOW.
- 2 - 8" INSULATED OSA DUCT UP THRU ROOF WITH A MANUAL BALANCING DAMPER AND A 2-POS CONTROL DAMPER. SEE 8/M6.02 FOR DETAIL. SEE EQUIPMENT 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

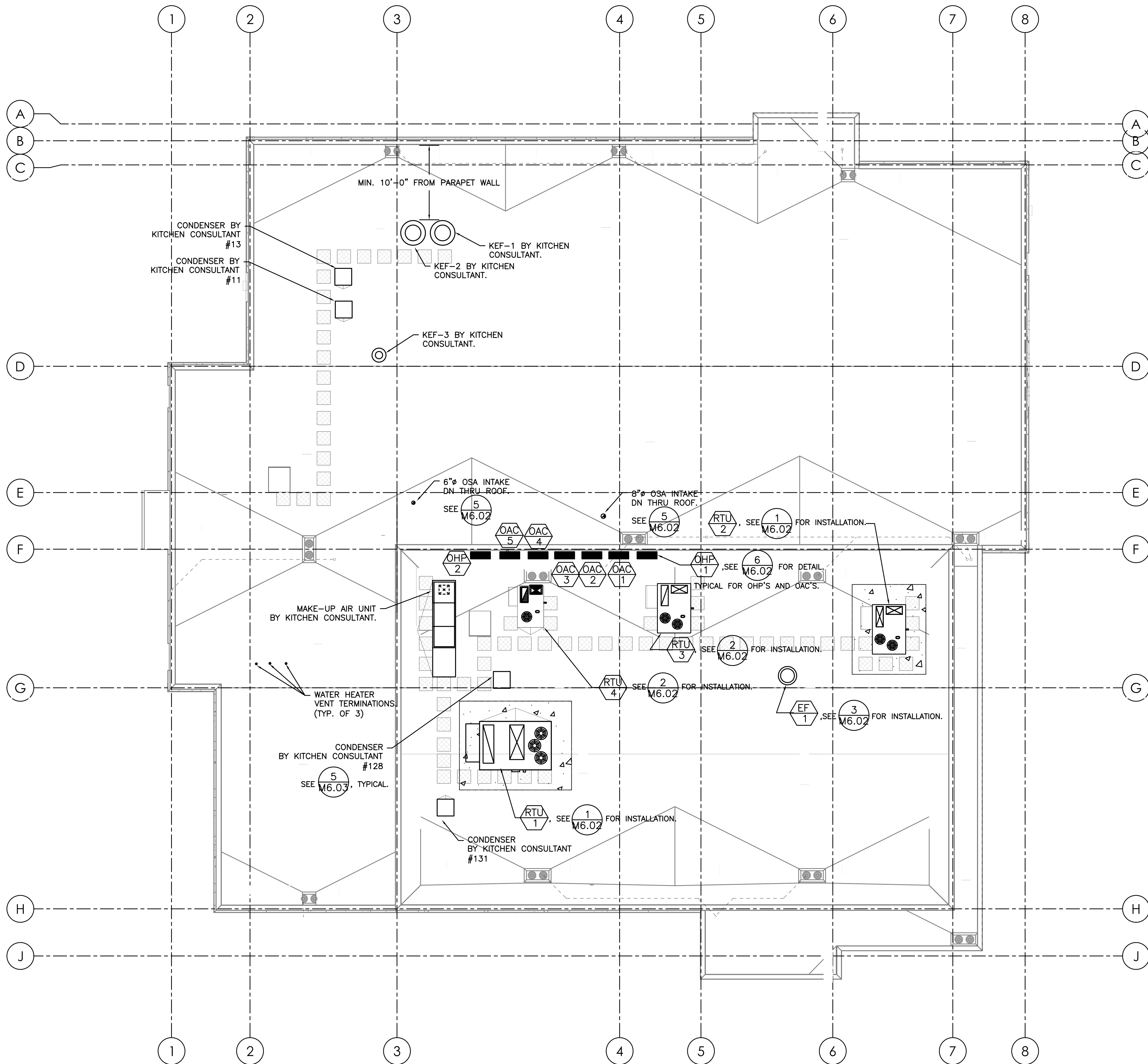
No.	Description	Date
1	Owner/CMGC Revisions	10/19/2016

Project Number	1519
Date	OCT 19, 2016
Drawn By	TB
Checked By	TB

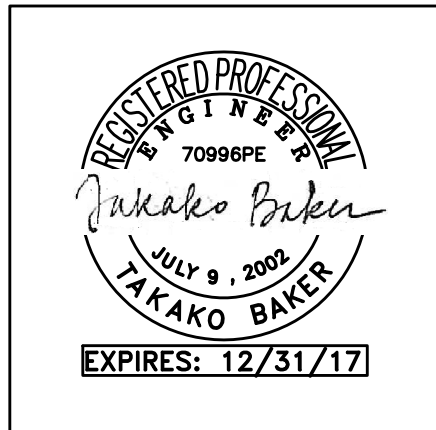
HVAC FLOOR PLAN

M2.01

BID SET



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



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WARM SPRINGS TRAVEL CENTER
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No.	Description	Date
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HVAC ROOF PLAN

M3.01

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

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

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

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	FTRK24NMWU/RK24NMWU				

BOTTOM DUCT

TOP DUCT

DUCT CROSSING

TURNING VANES IN ALL SQUARE ELBOWS AND TEES

LINED DUCTWORK

DOUBLE WALL DUCT

RECT. TO RECT.

RECT. TO ROUND

TRANSITIONS

SPECIFICATION REFERENCE
 SA = SUPPLY DIFFUSER
 RA = MATCHED RETURN
 EXH = EXH GRILLE

15° < A ≤ 90°
 SMOOTH RADIUS ELBOW, W/O VANES
 $R/W = 1.0$

A ≤ 15°
 MITERED ELBOW

ELBOWS

ROUND OR RECTANGULAR MAIN

ROUND DUCT W/ CONICAL FITTING

ROUND DUCT TEE

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

NECK SIZE

BALANCED AIRFLOW, CFM

SIDEWALL DIFFUSER SEE PLANS

SOFFIT WALL

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. GENFLEX SM-1DEL (WITH DAMPER AND 45° EXTRACTOR) OR APPROVED EQUAL

10X6 SA (W" x "H") SA MAIN DUCT

AIR TERMINALS

8X8 SA 200 CFM

15° MAX.

15° MAX.

MARK NUMBER	EH 1	EH 2	EH 3	EH 4	EH 5	
TYPE	CEILING	CEILING	WALL**	CEILING	CEILING	
SYSTEM	SHOWER	SHOWER	RISER ROOM	VESTIBULE 120	VESTIBULE 141, 146, 101	
KW (120V)	0.5	1.0	1.5	1.0	1.5	
CONTROLLED BY:	TIMER SWITCH*	TIMER SWITCH*	BUILT IN THERMOSTAT	BUILT IN THERMOSTAT	BUILT IN THERMOSTAT	
SWITCH LOCATION	WALL (48"A.F.F.)	WALL (48"A.F.F.)	---	---	---	
DESIGN WEIGHT (LBS)	10	10	10	10	10	
BASIS OF DESIGN: QMARK	QCH1101F	QCH1101F	CWH115	QCH1101F	QCH1151F	
ELECTRICAL CONNECTION	120V	120V	120V	120V	120V	

REGISTERED PROFESSIONAL
ENGINEER
70996PE
Jakako Baker
JULY 9, 2002
JAKAKO BAKER
EXPIRES: 12/31/17

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WARM SPRINGS TRAVEL CENTER	
	Madras, OR

No.	Description	Date
1	Owner/CIMGC Revisions	10/19/2016

Project Number	1519
Date	OCT. 19, 2016
Drawn By	TB
Checked By	JVB

MECHANICAL LEGEND SCHEDULES & DETAILS

M6.00

BID SET

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ASHRAE Standard 62.1-2004-2010

By MFIA Inc.

System Ventilation Requirements

AHU Location	Description	$\sum V_{pz}$ cfm	Ps People	$\sum P_z$ People	D Ps / $\sum P_z$	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
Zone	Zone - 016	Cooling	368	3	3	1.00	34	368	0.093	1,000	34	9.3
		Heating	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	0.169	0.993	58	17.0
		Heating	339	6	6	1.00	57	339	0.169	0.950	60	17.8
Zone	RTU-4	Cooling	1,015	6	6	1.00	174	1,015	0.172	0.993	175	17.3
		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:
Dataset Name: WS TRAVEL CENTER,IncTRACE® 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

ASHRAE Standard 62.1-2004-2010

By MFIA Inc.

Ventilation Parameters

	Occupancy Category	Rp cfm / p	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Std 170 Min OA ach	—Cooling— Ez cfm	—Heating— Ez cfm		
System Zone Room											
Alternative 1											
145 GAMING	Game arcades	7.50	109.09	0.18	1,200	1,034		1.00	1,034	0.80	1,293
RTU-2		7.50	109.09	0.18	1,200	1,034			1,034		1,293
143 SECURE VESTIBULE	Corridors	0.00	0.26	0.06	78	5		1.00	5	0.80	6
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			34		43
RTU-2		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-3		7.50	88.33	0.18	1,325	901			901		1,126
102 DRY GOODS	Supermarket	7.50	39.60	0.06	3,960	535		1.00	535	0.80	668
119 CORRIDOR	Corridors	0.00	2.48	0.06	745	45		1.00	45	0.80	56
140 CORRIDOR	Corridors	0.00	2.16	0.06	648	39		1.00	39	0.80	49
112 HALL	Corridors	0.00	0.71	0.06	212	13		1.00	13	0.80	16
126 LAUNDRY	Laundry Rooms, Central	5.00	0.51	0.12	154	21	2.0	1.00	51	0.80	51
127 RECEIVING	Shipping/ receiving	0.00	0.47	0.12	142	17		1.00	17	0.80	21
118 STORAGE	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			726		894
125 OFFICE	Office space	6.43	47.31	0.06	6,088	695			726		894
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 IT 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			57		71
HP-2		5.00	5.54	0.06	492	57			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			174		218
RTU-4		6.81	5.76	0.11	1,205	174			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			170		213

Project Name:
Dataset Name: WS TRAVEL CENTER,IncTRACE® 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

ASHRAE Standard 62.1-2004-2010

By MFIA Inc.

Ventilation Parameters

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

Project Name:
Dataset Name: WS TRAVEL CENTER,IncTRACE® 700 v6.3.2 calculated at 03:26 PM on 08/02/2016
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 3 of 7

ASHRAE Standard 62.1-2004-2010

By MFIA Inc.

Ventilation Calculations for Cooling Design

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													
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 *
RTU-2		2,585	2,585	2,585	0	1,034							1.000
143 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 *
Zone - 016		368	368	368	0	34							1.000
RTU-2		2,954	2,954	2,954	0	1,068							1.000
138 DINING	Single Fan CV	1,957	1,957	1,957	0	901	0.460	1.00	1.00	1.00	1.00	1.00	1.000 *
RTU-3		1,957	1,957	1,957	0	901							1.000
RTU-3		1,957	1,957	1,957	0	901							1.000
102 DRY GOODS	Single Fan CV	2,556	2,556	2,556	0	835	0.209	1.00	1.00	1.00	1.00	1.00	0.993
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
126 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	0.934
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
RTU-1		3,436	3,436	3,436	0	726							0.402
RTU-1		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	0.983 *
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
124 IT OFFICE	Single Fan CV	117	117	117	0	20	0.174	1.00	1.00	1.00	1.00	1.00	0.994
HP-3		339	339	339	0	57							0.983
HP-2		339	339	339	0	57							0.983
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		1,015	1,015	1,015	0	174							0.983
RTU-4		1,015	1,015	1,015	0	174							0.983
121 BANQUET	Single Fan CV	300	300	300	0	170	0.567	1.00	1.00	1.00	1.00	1.00	1.000 *
HP-1		300	300	300	0	170							1.000
HP-1		300	300	300	0	170							1.000
AC-1		0	0	0	0	0							0.000

Project Name:
Dataset Name: WS TRAVEL CENTER,IncTRACE® 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

ASHRAE Standard 62.1-2004-2010

By MFIA Inc.

Ventilation Calculations for Cooling Design

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

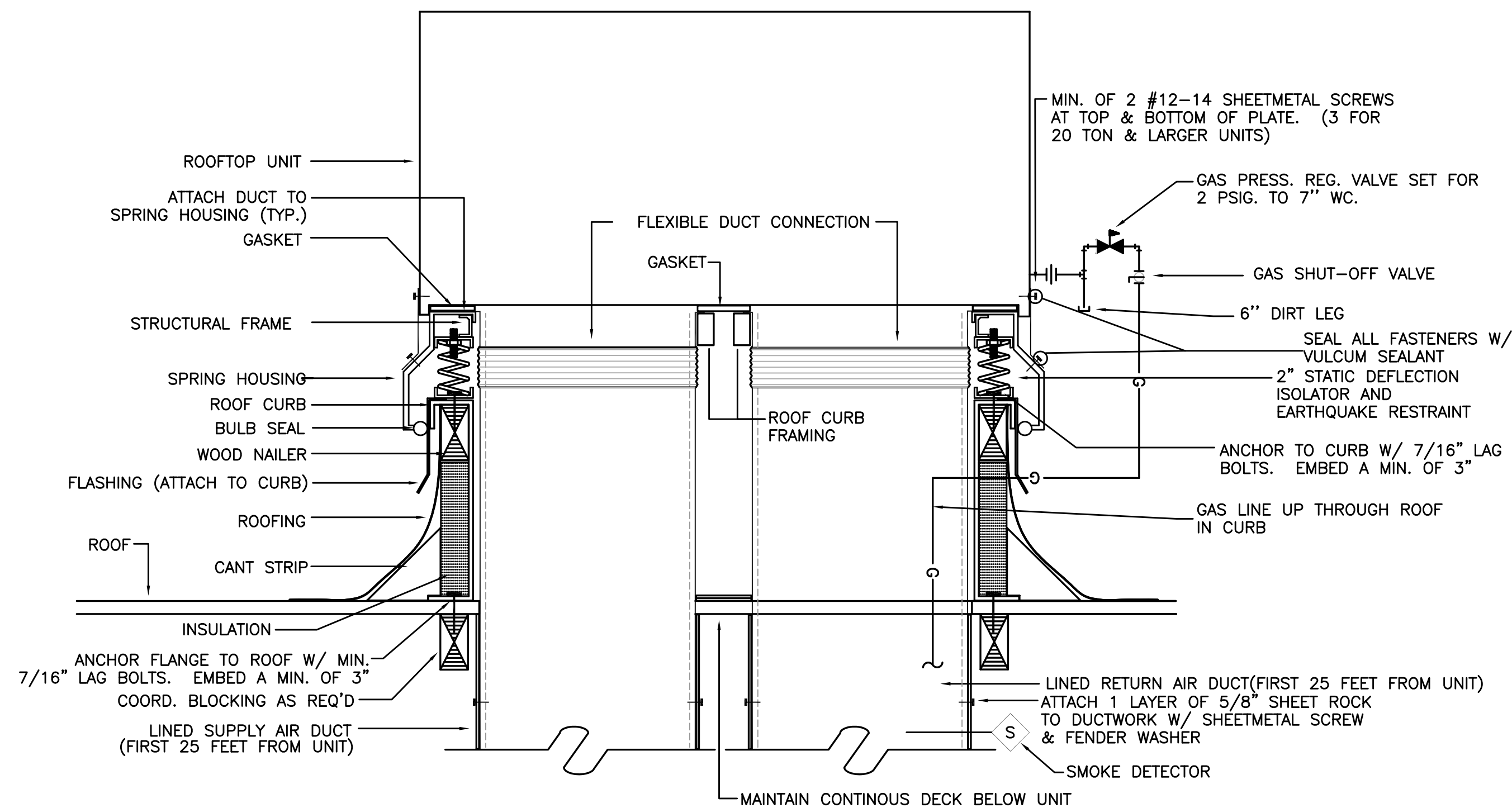
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Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 5 of 7

ASHRAE Standard 62.1-2004-2010

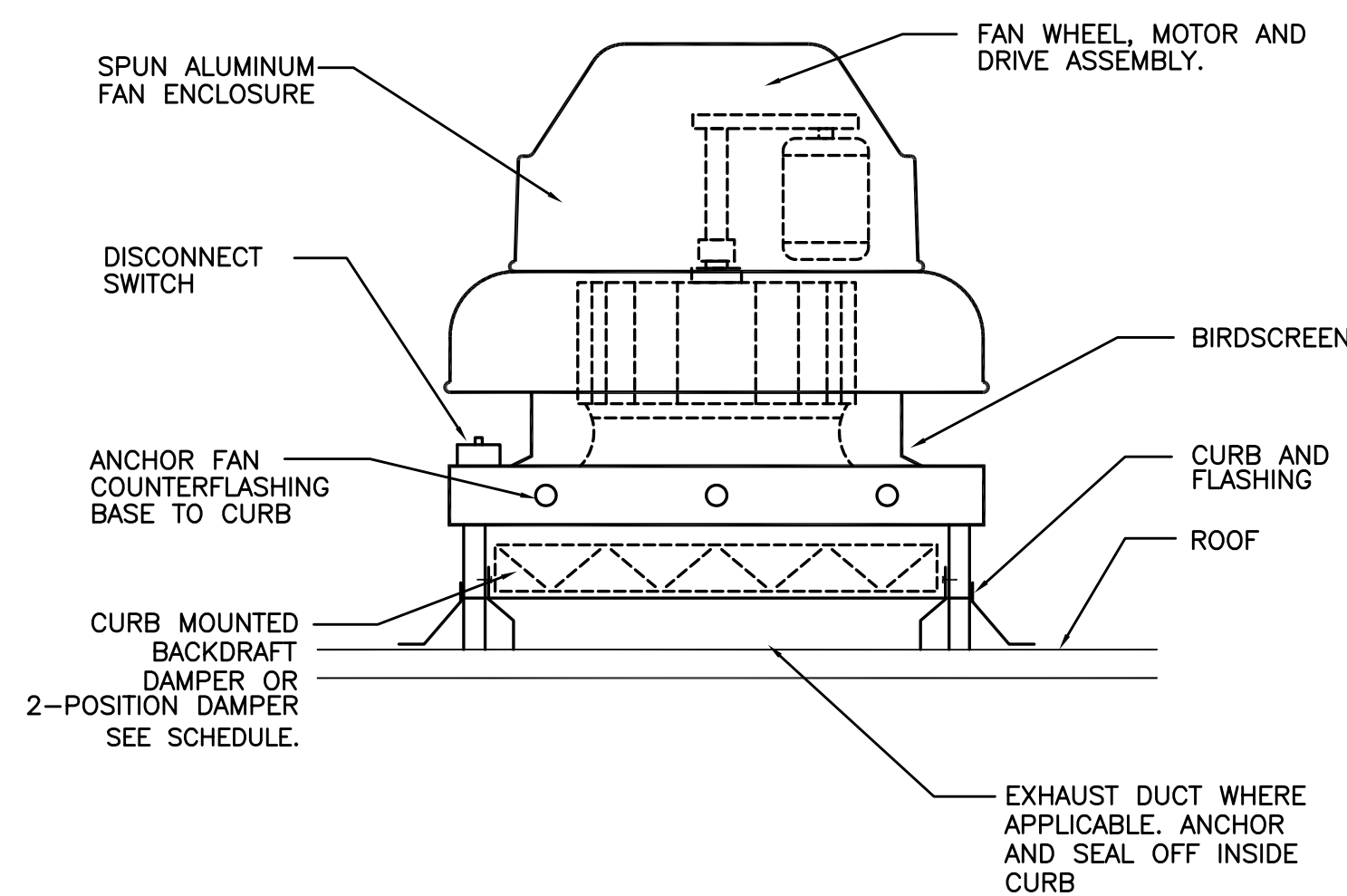
By MFIA Inc.

Ventilation Calculations for Heating Design

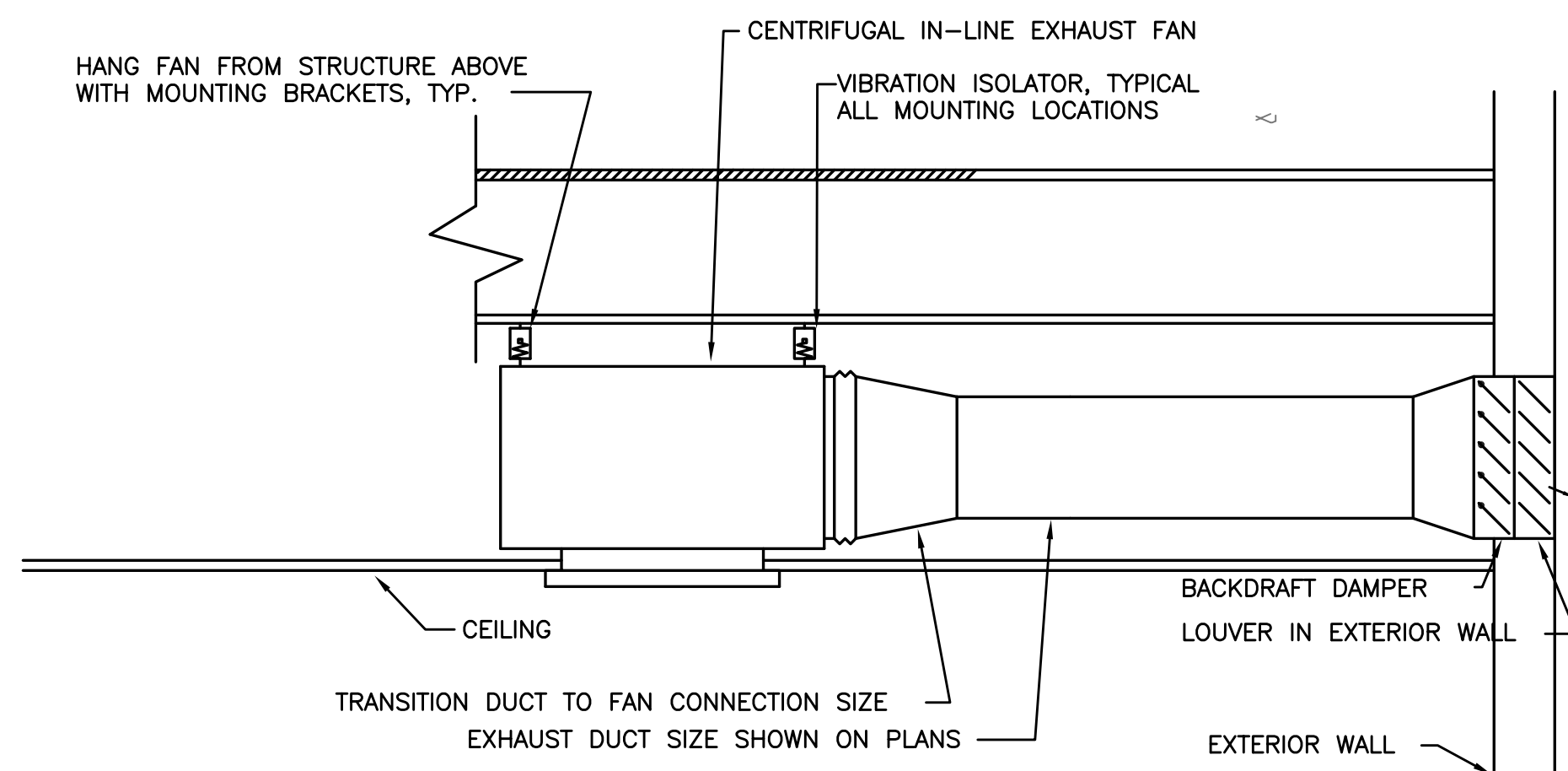
System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-hlg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
145 GAMING	Single Fan CV	2,585	2,585	2,585	0	1,293	0.500	1.00	1.00	1.00	1.00	1.00	0.900 *
RTU-2		2,585	2,585	2,585	0	1,293							0.900
143 SECURE VESTIBULE	Single Fan CV	64	64	64	0	6	0.092	1.00	1.00	1.00	1.00	1.00	1.000
144 COUNTING ROOM	Single Fan CV	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							1.000
RTU-2		2,954	2,954	2,954	0	1,335							0.900
138 DINING	Single Fan CV	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							0.885
RTU-3		1,957	1,957	1,957	0	1,126							0.885
102 DRY GOODS	Single Fan CV	2,556	2,556	2,556	0	868	0.261	1.00	1.00	1.00	1.00	1.00	0.941
103 CORRIDOR	Single Fan CV	279	279	279	56	56	0.200	1.00	1.00	1.00	1.00	1.00	1.000
149 CORRIDOR	Single Fan CV	246	246	246	49	49	0.198	1.00	1.00	1.00	1.00	1.00	1.000
112 HALL	Single Fan CV	79	79	79	79	16	0.200	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	21	21	0.336	1.00	1.00	1.00	1.00	1.00	0.865 *
118 STORAGE	Single Fan CV	60	60	60	0	20	0.340	1.00	1.00	1.00	1.00	1.00	0.863
148 MANAGER	Single Fan CV	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							0.402
RTU-1		3,436	3,436	3,436	0	894							0.402
125 OFFICE	Single Fan CV	117	117	117	26	26	0.219	1.00	1.00	1.00	1.00	1.00	0.950 *
117 SECURITY	Single Fan CV	55	55	55	0	11	0.208	1.00	1.00	1.00	1.00	1.00	0.962
130 OFFICE	Single Fan CV	50	50	50	0	9	0.180	1.00	1.00	1.00	1.00	1.00	0.989
124 IT OFFICE	Single Fan CV	117	117	117	25	25	0.218	1.00	1.00	1.00	1.00	1.00	0.951
HP-3		339	339	339	0	71							0.950
HP-2		339	339	339	0	71							0.950
134 KITCHEN	Single Fan CV	923	923	923	0	206	0.223	1.00	1.00	1.00	1.00	1.00	0.949 *
131 ALCOVE	Single Fan CV	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							0.949
RTU-4		1,015	1,015	1,015	0	218							0.949
121 BANQUET	Single Fan CV	300	300	300	0	213	0.708	1.00	1.00	1.00	1.00	1.00	0.858 *
HP-1		300	300	300	0	213							0.858
HP-1		300	300	300	0	213							0.858
AC-1		0	0	0	0	0							0.000



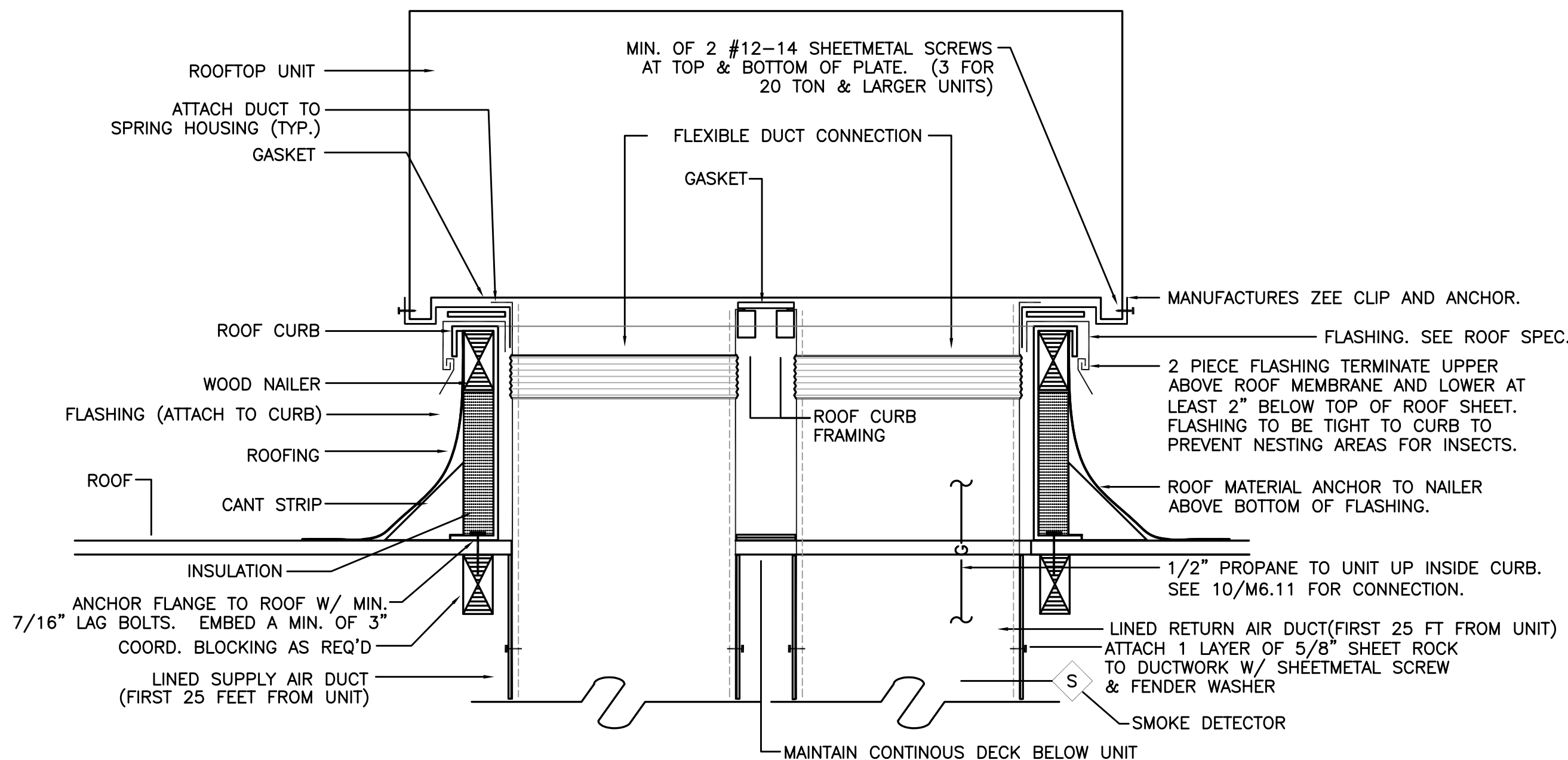
1 RTU-1 & 2 W/ VIBRATION ISOLATION CURB
M6.02 SCALE: DETAIL



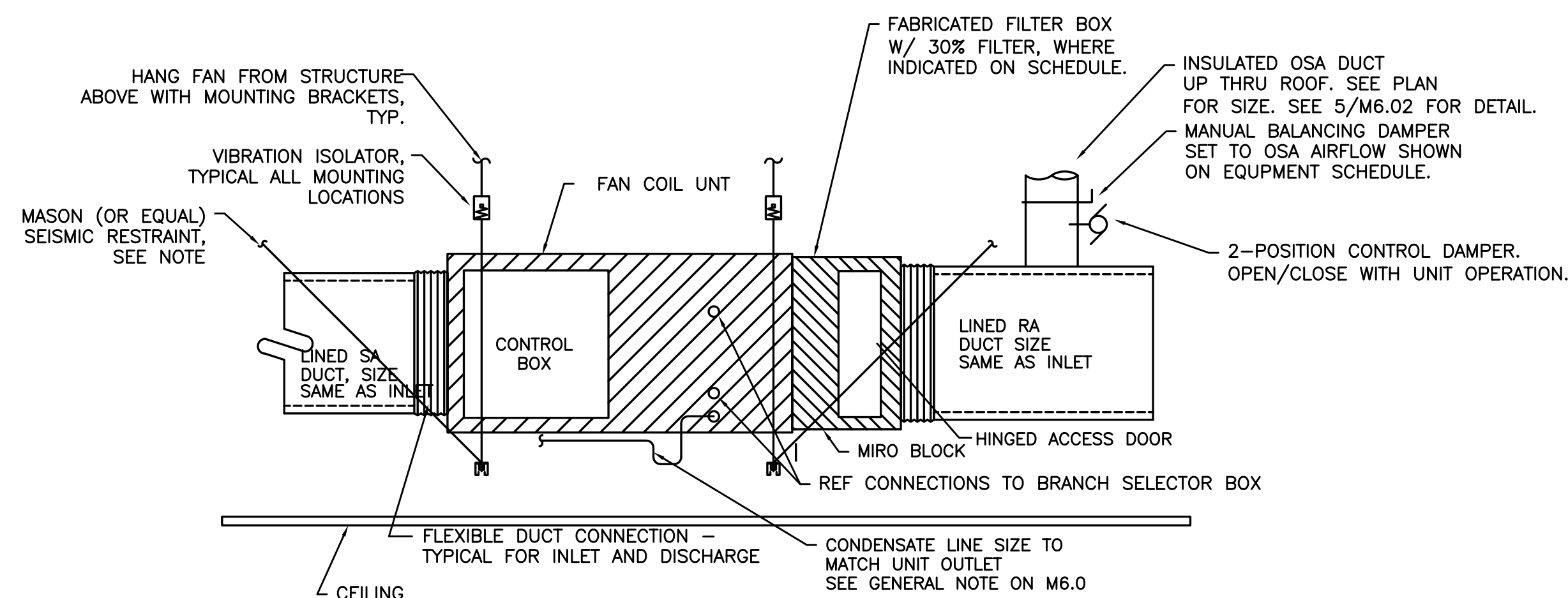
3 EXHAUST FAN
M6.02 DETAIL



6 RESTROOM EXHAUST FAN
M6.02 SCALE:DETAIL

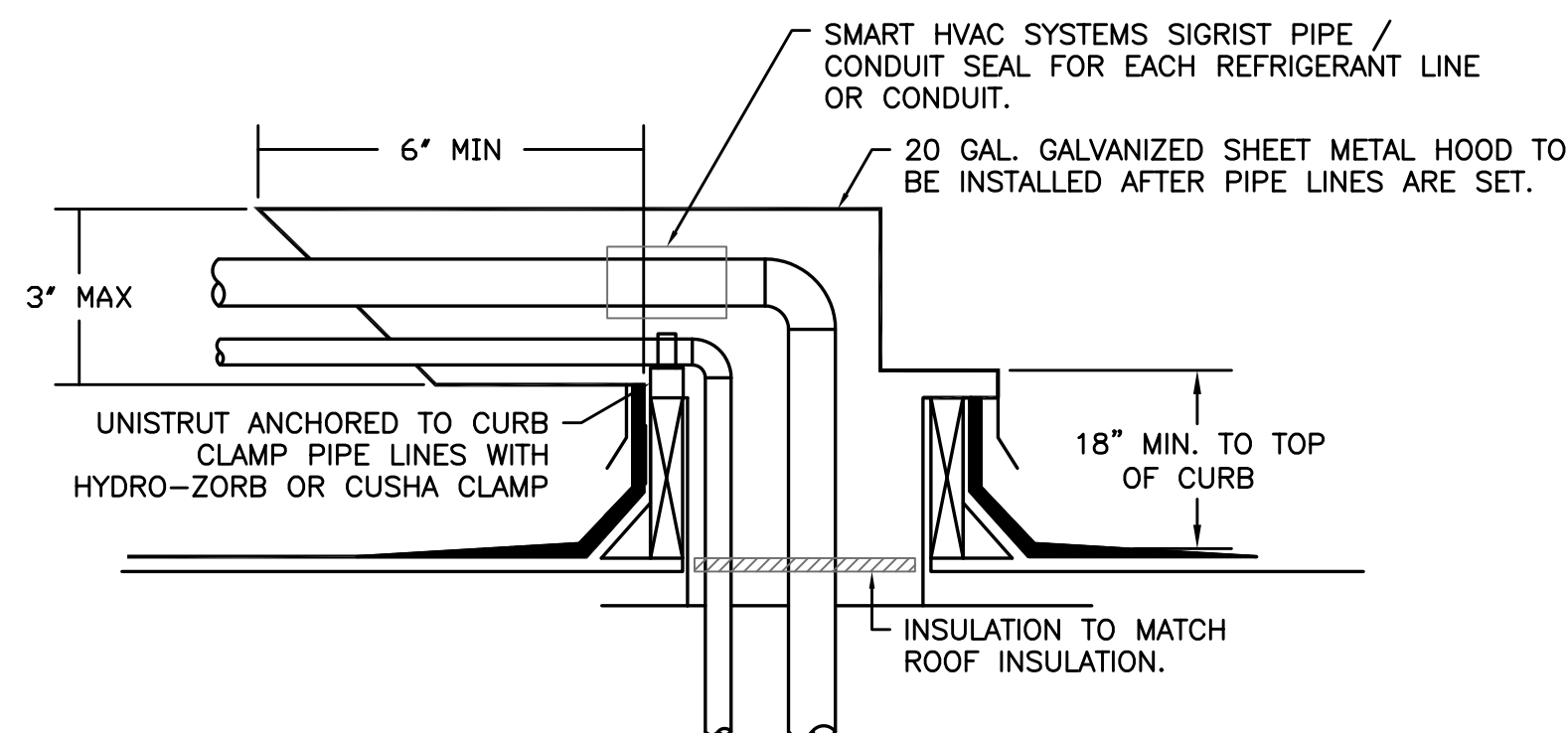


2 RTU-3 & 4 W/ CURB
M6.02 SCALE: DETAIL

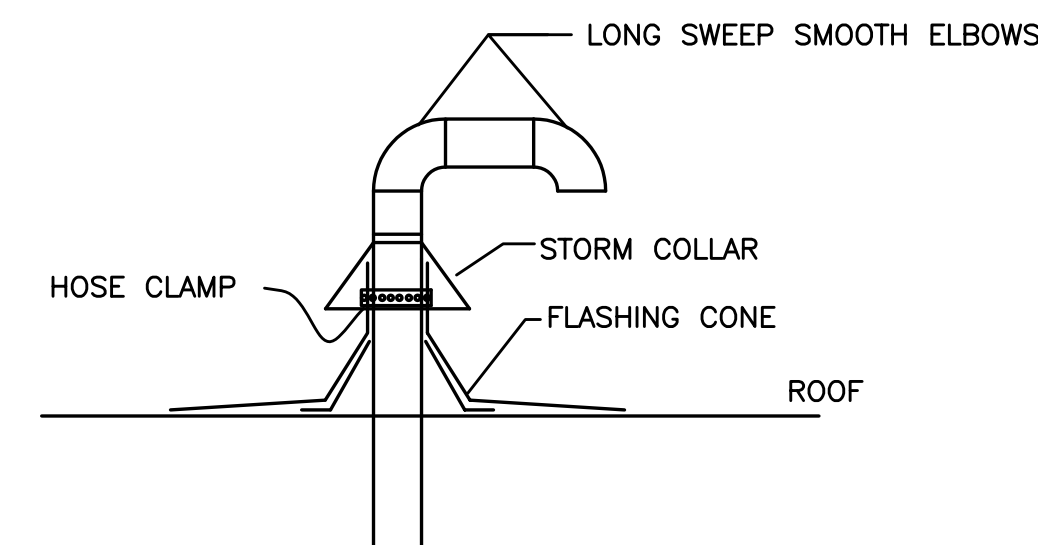


NOTE: LOCATE SUPPORT & SIESMIC TO MAINTAIN UNHINDERED ACCESS FOR MAINTENANCE OF UNIT.

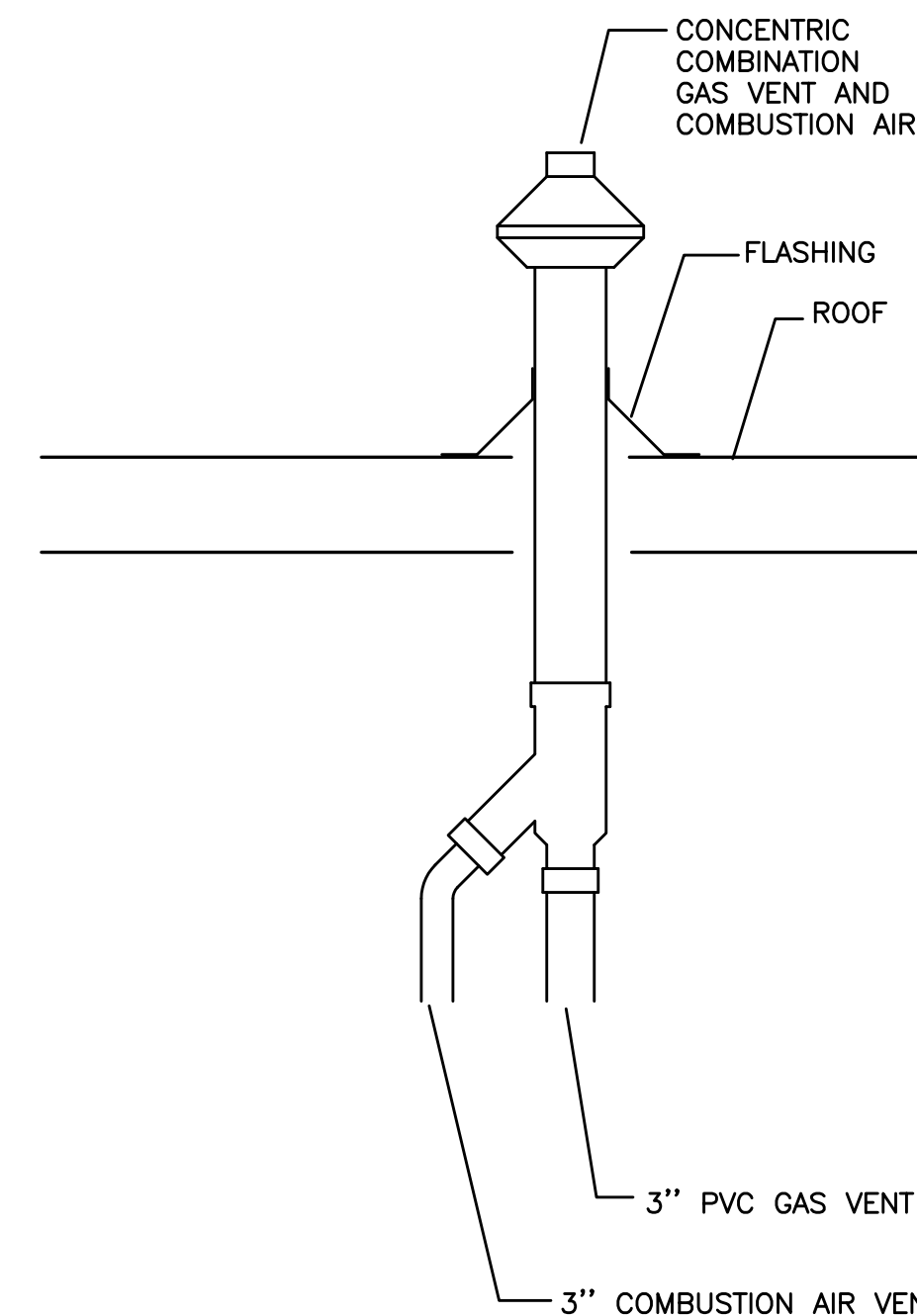
4 DUCTED FAN COIL (IHP)
M6.02 SCALE: DETAIL



8 PIPE HOOD DETAIL
M6.02 SCALE: DETAIL



5 OSA INTAKE THRU ROOF
M6.02 DETAIL



7 CONCENTRIC GAS VENT
M6.02 SCALE:DETAIL



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Madras, OR

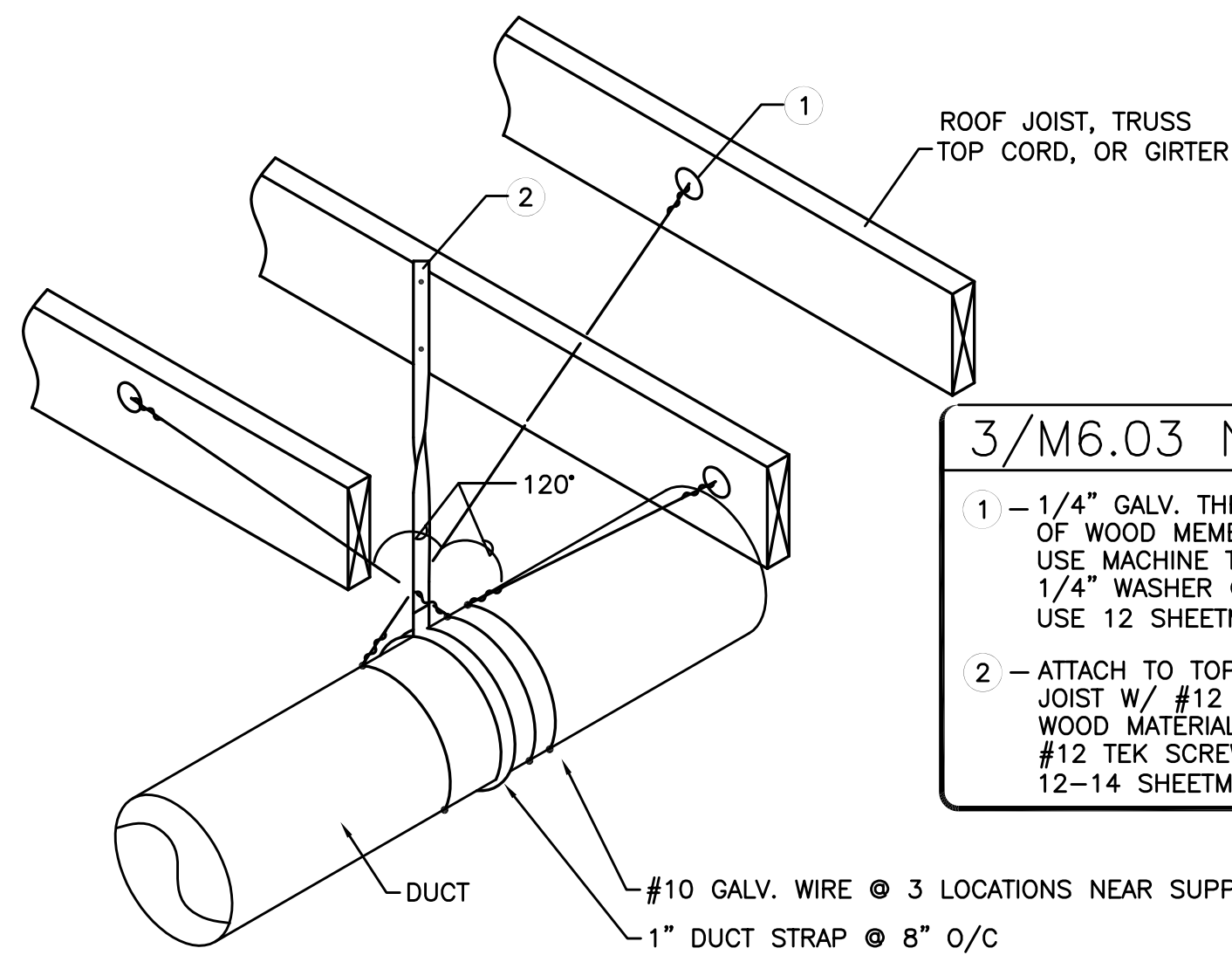
No.	Description	Date
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Project Number 1519
Date OCT. 19, 2016
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MECHANICAL
DETAILS

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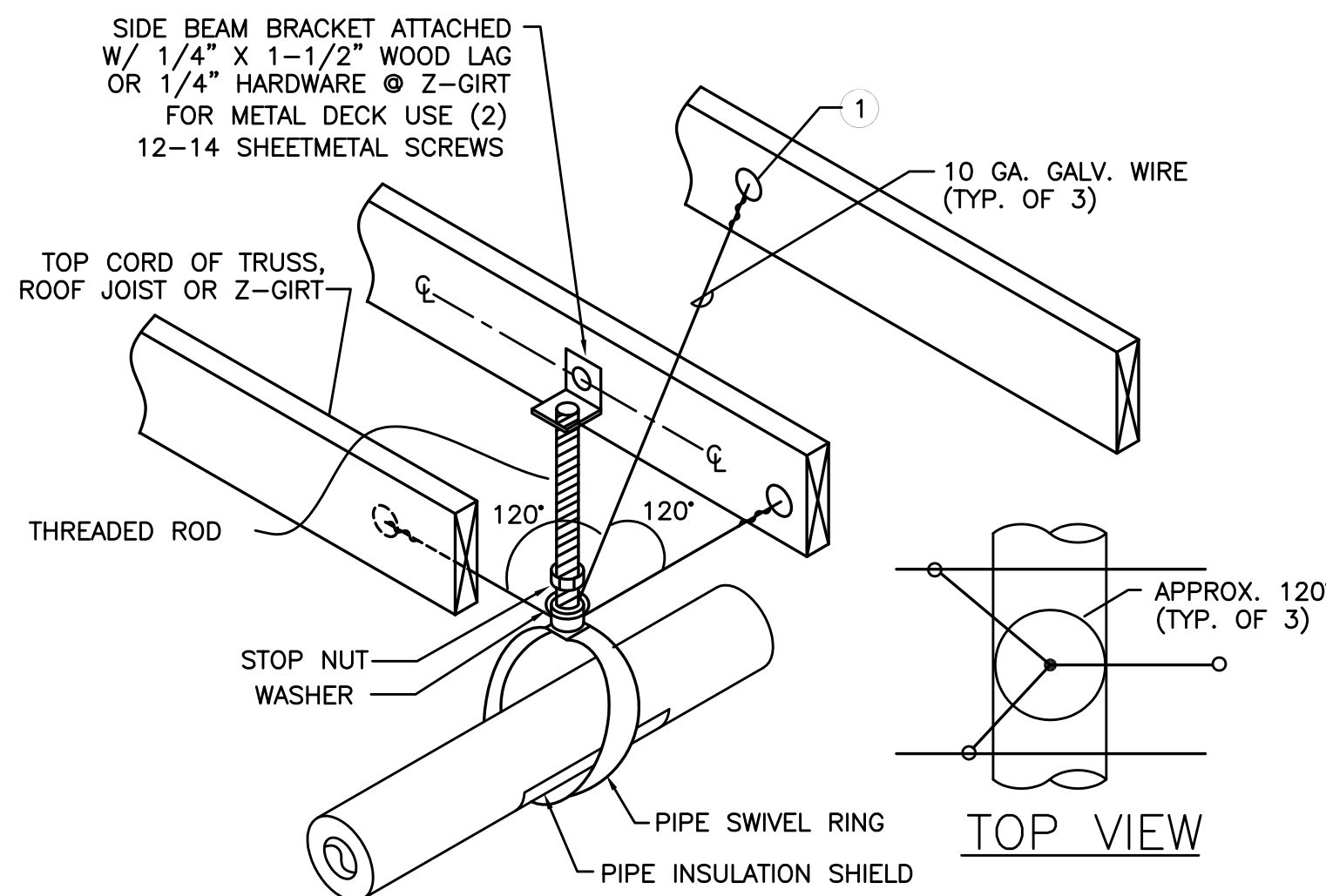
M6.02



3/M6.03 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. FOR METAL DECK USE 12 SHEETMETAL SCREWS & 16 GA. MIN STRUT ANGLE CLIP
- 2 - ATTACH TO TOP CORD OF TRUSS ONLY OR WOOD JOIST W/ #12 X 1-5/8 DECK SCREW @ MIN. 1" FROM WOOD MATERIAL EDGE. ATTACH TO Z-GIRT W/ (2) #12 TEK SCREWS. FOR METAL DECK USE (2) 12-14 SHEETMETAL SCREWS

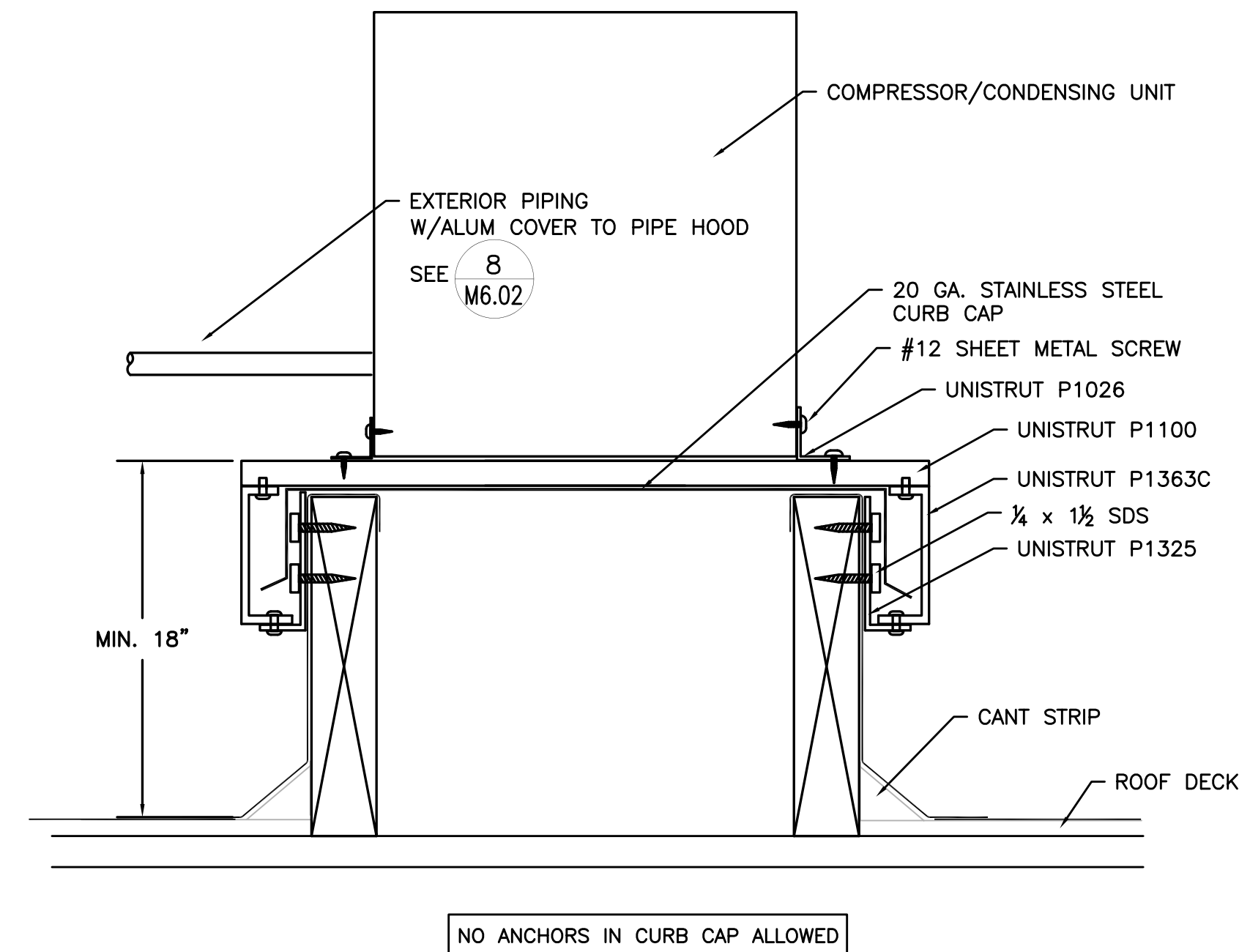
1 DUCT SUPPORT
M6.03 SCALE: DETAIL



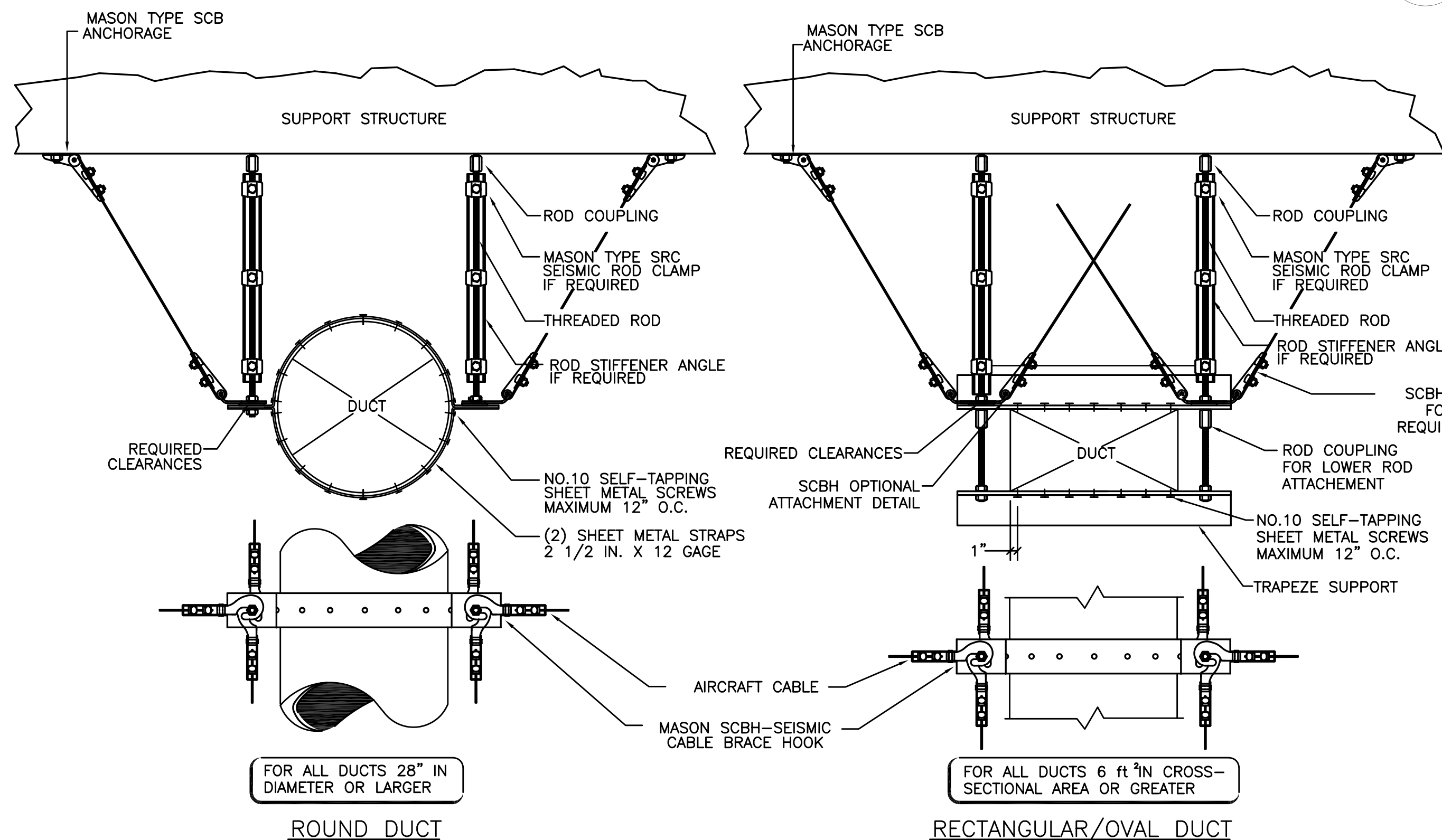
2/M6.03 NOTES

- 1 - 1/4" GALV. THREADED EYE BOLT @ CENTER OF WOOD MEMBER (TYP. OF 3). FOR 2 GIRT USE MACHINE THREAD EYE BOLT W/ JAMB NUT & 1/4" WASHER @ EACH SIDE OF GIRT. USE 12 SHEETMETAL SCREWS & 16 GA. MIN. 16 GA. MIN STRUT ANGLE CLIP

2 PIPE SUPPORT
M6.03 SCALE: DETAIL

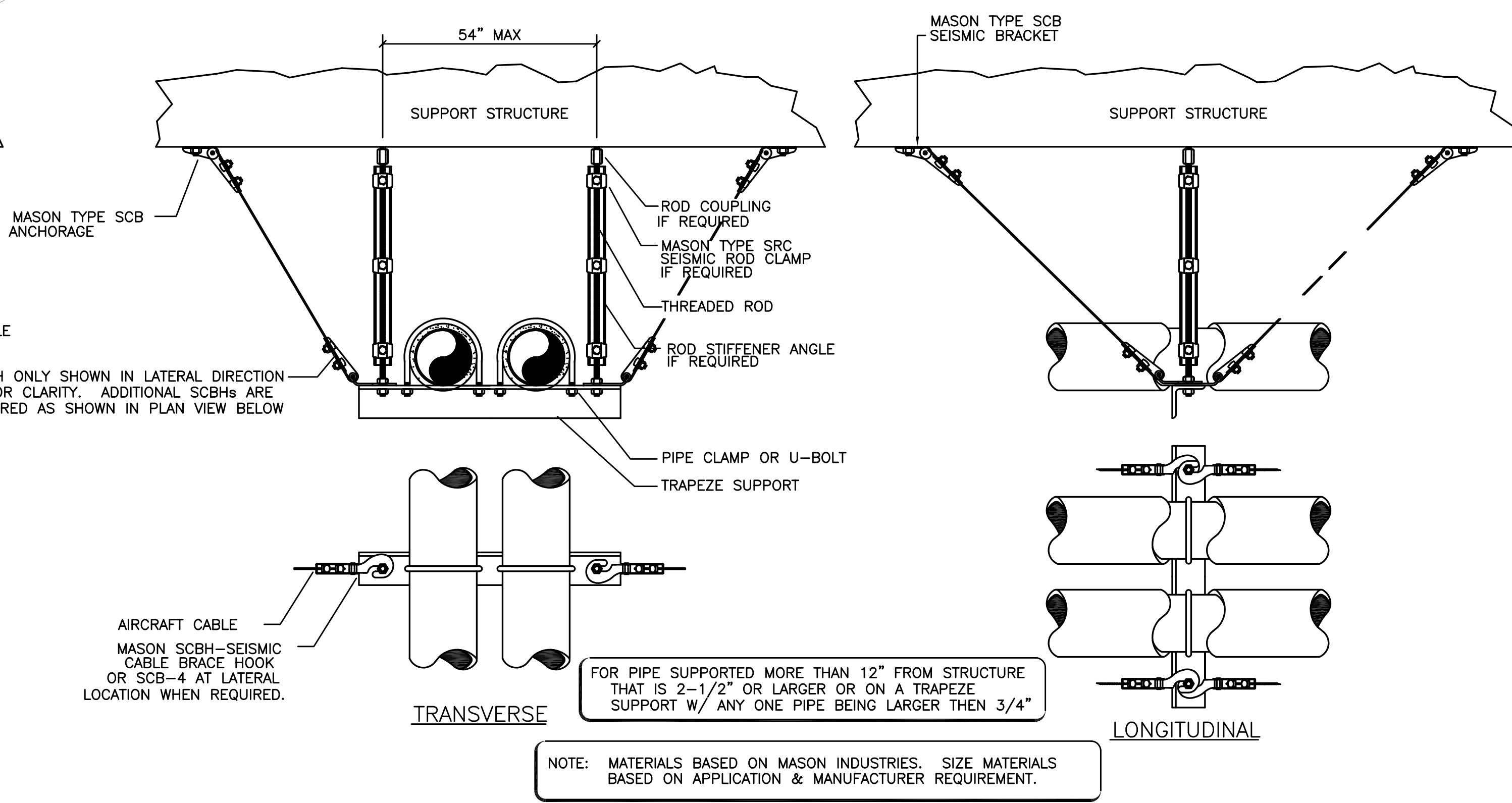


5 CONDENSER W/ CURB
M6.03 SCALE: DETAIL



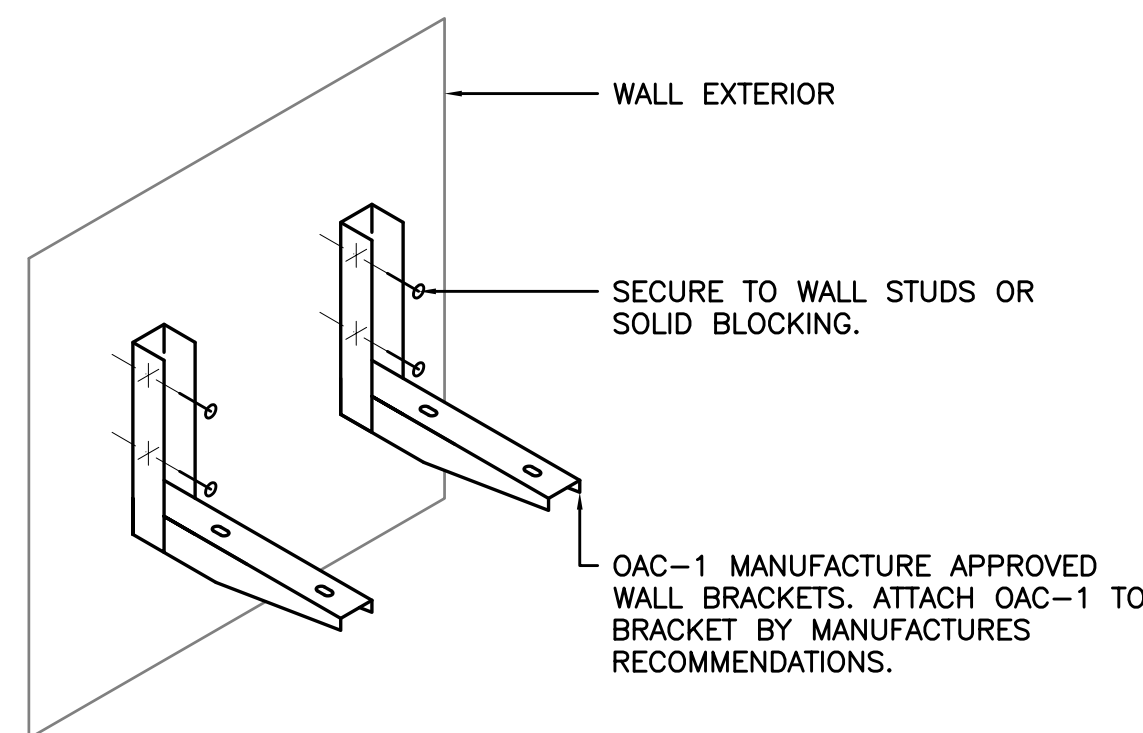
NOTE: MATERIALS BASED ON MASON INDUSTRIES. SIZE MATERIALS BASED ON APPLICATION & MANUFACTURER REQUIREMENT.

3 SEISMIC DUCT SUPPORT
M6.03 SCALE: DETAIL

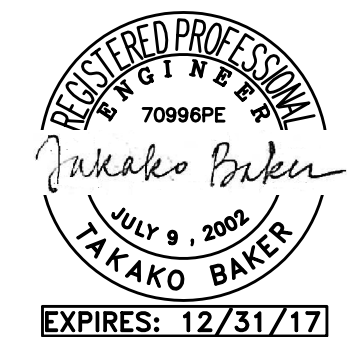


NOTE: MATERIALS BASED ON MASON INDUSTRIES. SIZE MATERIALS BASED ON APPLICATION & MANUFACTURER REQUIREMENT.

4 SEISMIC PIPE SUPPORT
M6.03 SCALE: DETAIL



6 OAC MOUNTING DETAIL
M6.03 SCALE: DETAIL



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WARM SPRINGS TRAVEL CENTER
Madras, OR

No.	Description	Date
1	Owner/CMGC Revisions	10/19/2016

Project Number 1519
Date OCT. 19, 2016
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MECHANICAL
DETAILS

M6.03

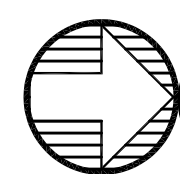
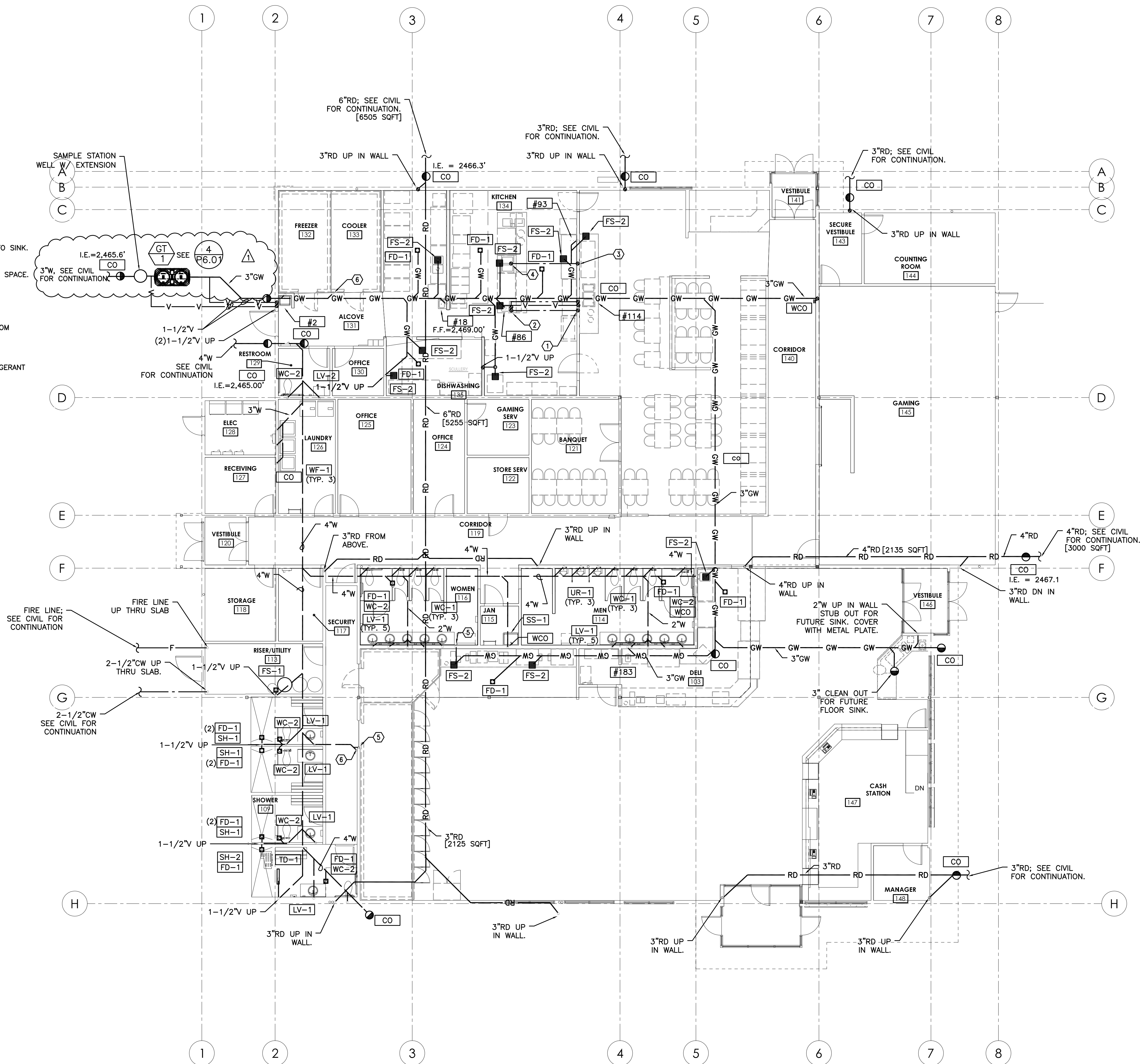
BID SET

KEYED NOTES:

- 1 - 1/2" CW/HW & 1-1/2" V UP THRU SLAB IN WALL TO CEILING SPACE.
- 2 - 1/2" CW/HW UP THRU SLAB AND CONNECT TO SINK. SEE 2/P6.01 FOR DETAIL.
- 3 - 1/2" CW UP THRU SLAB IN WALL TO CEILING SPACE.
- 4 - 1/2" CW UP THRU SLAB TO FILL FAUCET.
- 5 - 1-1/2" V UP IN WALL.
- 6 - 3" HUB DRAIN FOR CONDENSATE DRAINS FROM COOLER/FREEZER EVAPORATOR COILS.

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.



1 UNDER SLAB PLUMBING PLAN
P2.01 SCALE: 1/8" = 1'-0"



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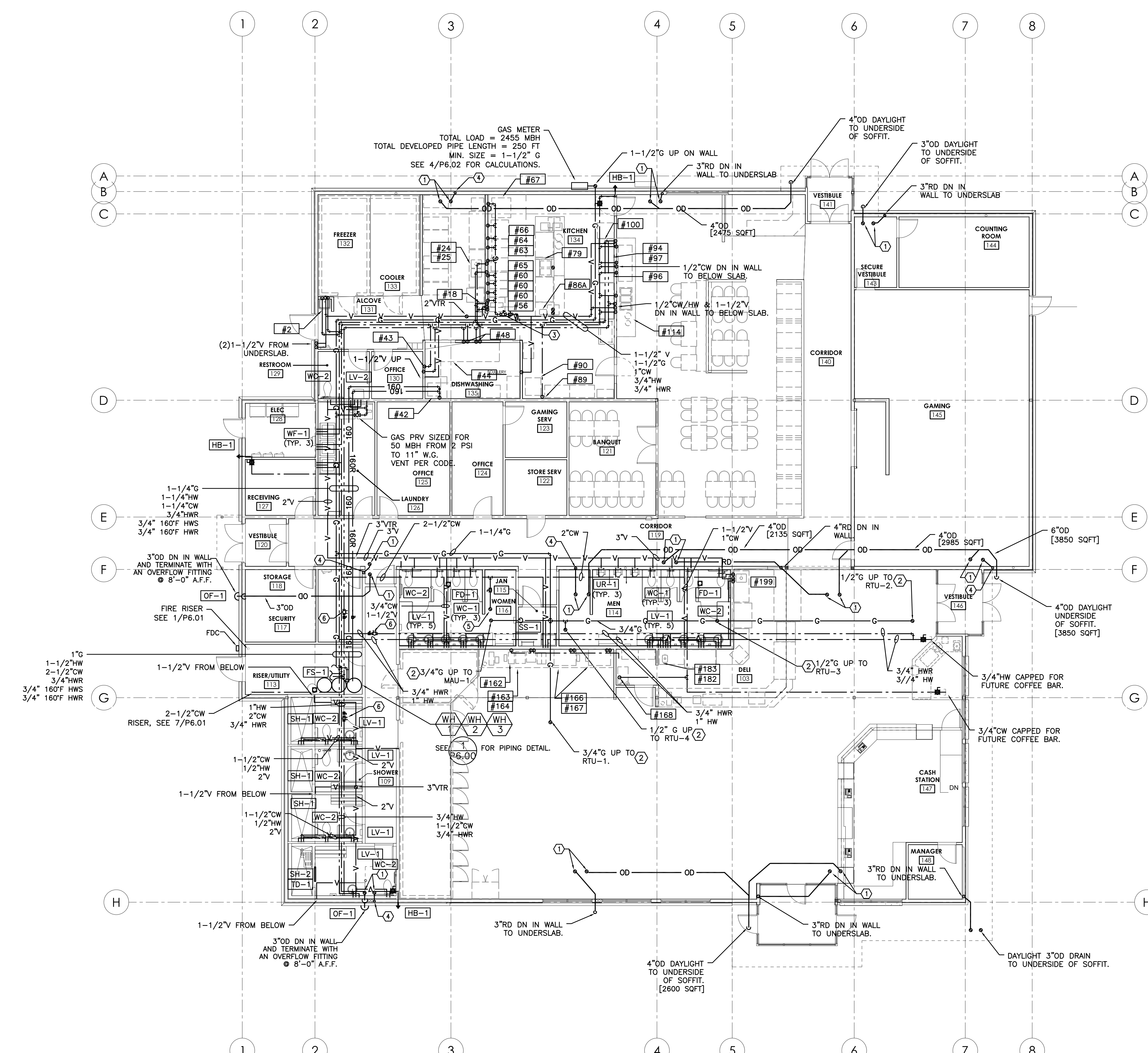
No.	Description	Date
1	Owner/CMGC Revisions	10/19/2016

Project Number 1519
Date AUGUST 22, 2016
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Checked By JVB

UNDER SLAB
PLUMBING
PLAN

P2.01

BID SET



- 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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Date

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Drawn By

TB

Checked By

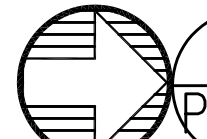
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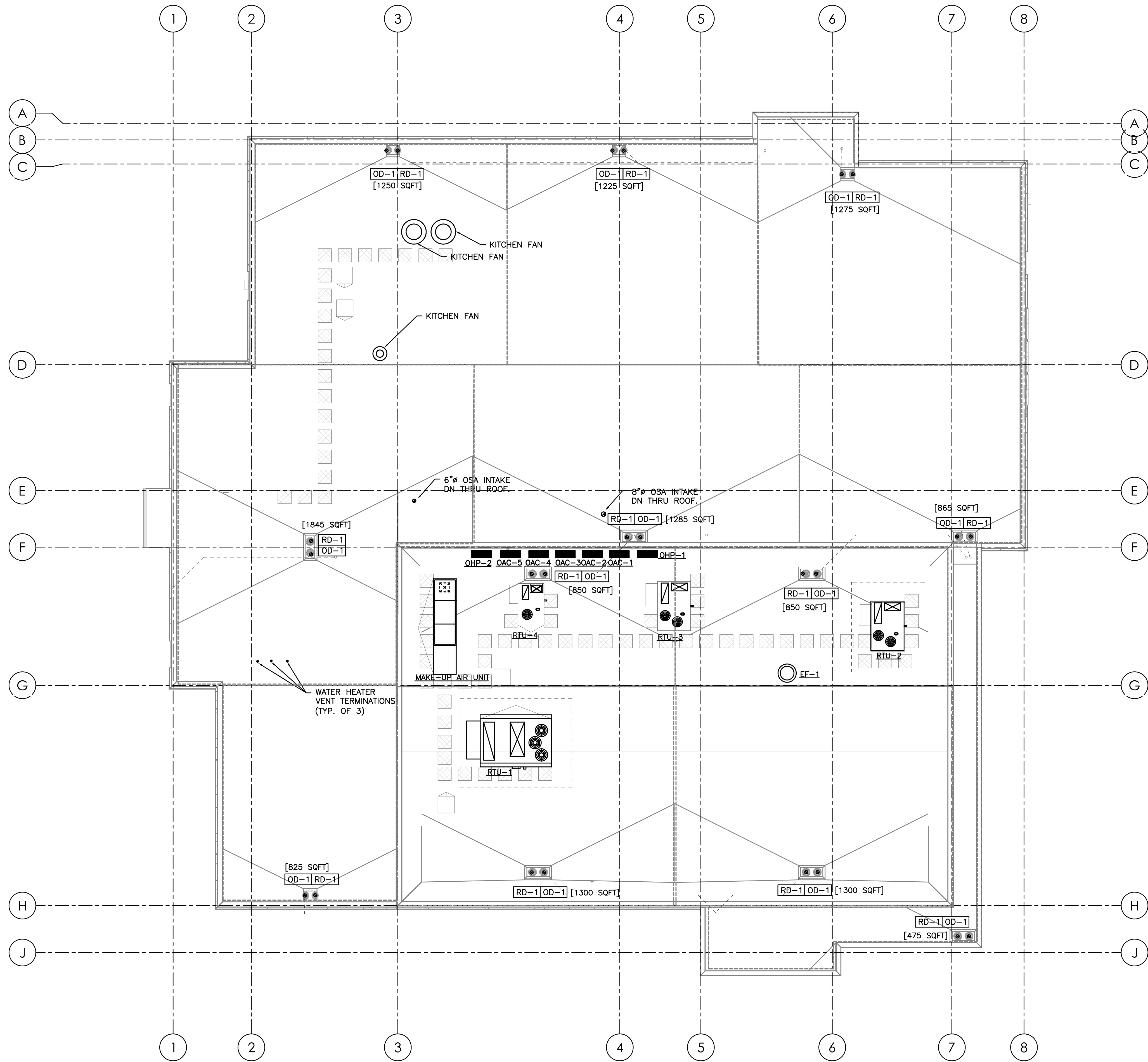
PLUMBING FLOOR PLAN

P2.02

BID SET

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 1 PLUMBING FLOOR PLAN
P2.02 SCALE: 1/8"=1'-0"



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



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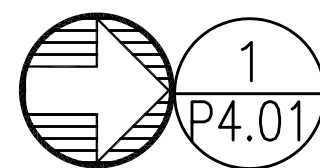
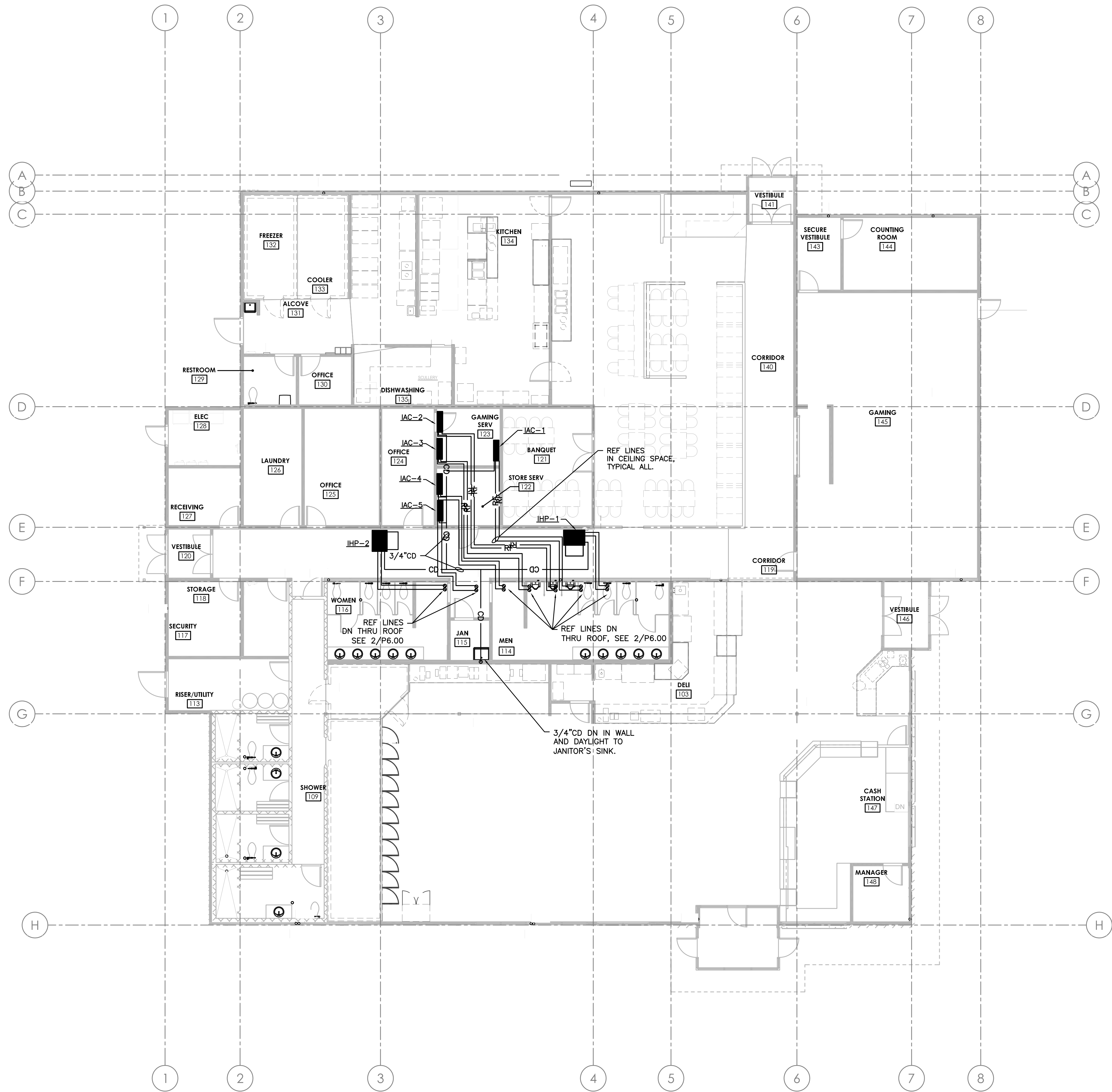
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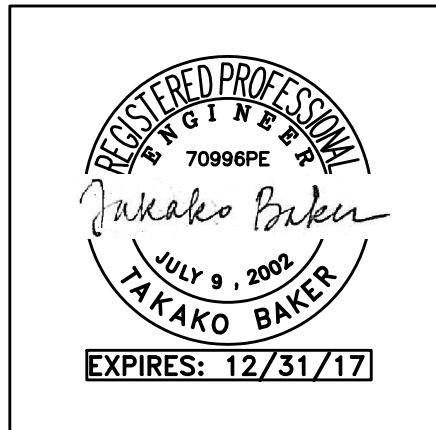
PLUMBING
ROOF PLAN

P3.01

BID SET



1 CONDENSATE DRAIN AND REF PIPING PLAN
P4.01
SCALE: 1/8" = 1'-0"



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WARM SPRINGS TRAVEL CENTER
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CONDENSATE
DRAINS & REF
PIPING PLAN

P4.01

BID SET

AFF	ABOVE FINISHED FLOOR	—C—	(CW) COLD WATER
ARCH	ARCHITECTURAL	— -- —	(HW) HOT WATER
B.G.	BELOW GRADE	— -- —	(HWR) HOT WATER RECIRC
BTU	BRITISH THERMAL UNIT	— - - -	(HT) HOT WATER HEAT TRACED
CAP.	CAPACITY	— — — —	(W) BELOW GRADE WASTE
C.I.	CAST IRON	— — — —	(W) ABOVE GRADE WASTE
COMP.	COMPARTMENT	— V — V —	(V) VENT
CONT.	CONTINUATION	— AV — AV —	(AV) ACID VENT
CU.	CUBIC	— RD —	(RD) RAIN DRAIN
DF	DRINKING FOUNTAIN	— OD —	(OD) OVERFLOW RAIN DRAIN
DI	DEIONIZED (WATER)	— FDC —	(FDC) FIRE DEPARTMENT CONNECTION
DIA.	DIAMETER	— A —	(A) COMPRESSED AIR
ELEV.	ELEVATION	— PHW —	(PHW) PROCESS HOT WATER
EWV	ELECTRIC WATER COOLER	— PCW —	(PCW) PROCESS COLD WATER
FD	FLOOR DRAIN	— VAC —	(VAC) VACUUM
FDC	FIRE DEPARTMENT CONNECTION	— G —	(G) NATURAL GAS
F.F.	FINISH FLOOR	— F —	(F) FIRE WATER
FLG.	FLANGE	— GW — GW —	(GW) GREASE WASTE
FT	FOOT / FEET	— AW —	(AW) ACID WASTE
G	GAS		
GAL.	GAUGE		
GALV.	GALVANIZED		
GPM	GALLONS PER MINUTE		
G.V.	GATE VALVE		
HP	HORSEPOWER		
HR.	HOUR		
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		
PSI, PSIG	POUNDS PER SQUARE INCH		
P/T	PRESSURE / TEMPERATURE		
REQ'D	REQUIRED		
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER		
RPM	REVOLUTIONS PER MINUTE		
TYP.	TYPICAL		
UR	URINAL		
VTR	VENT THROUGH ROOF		
WC	WATER CLOSET		

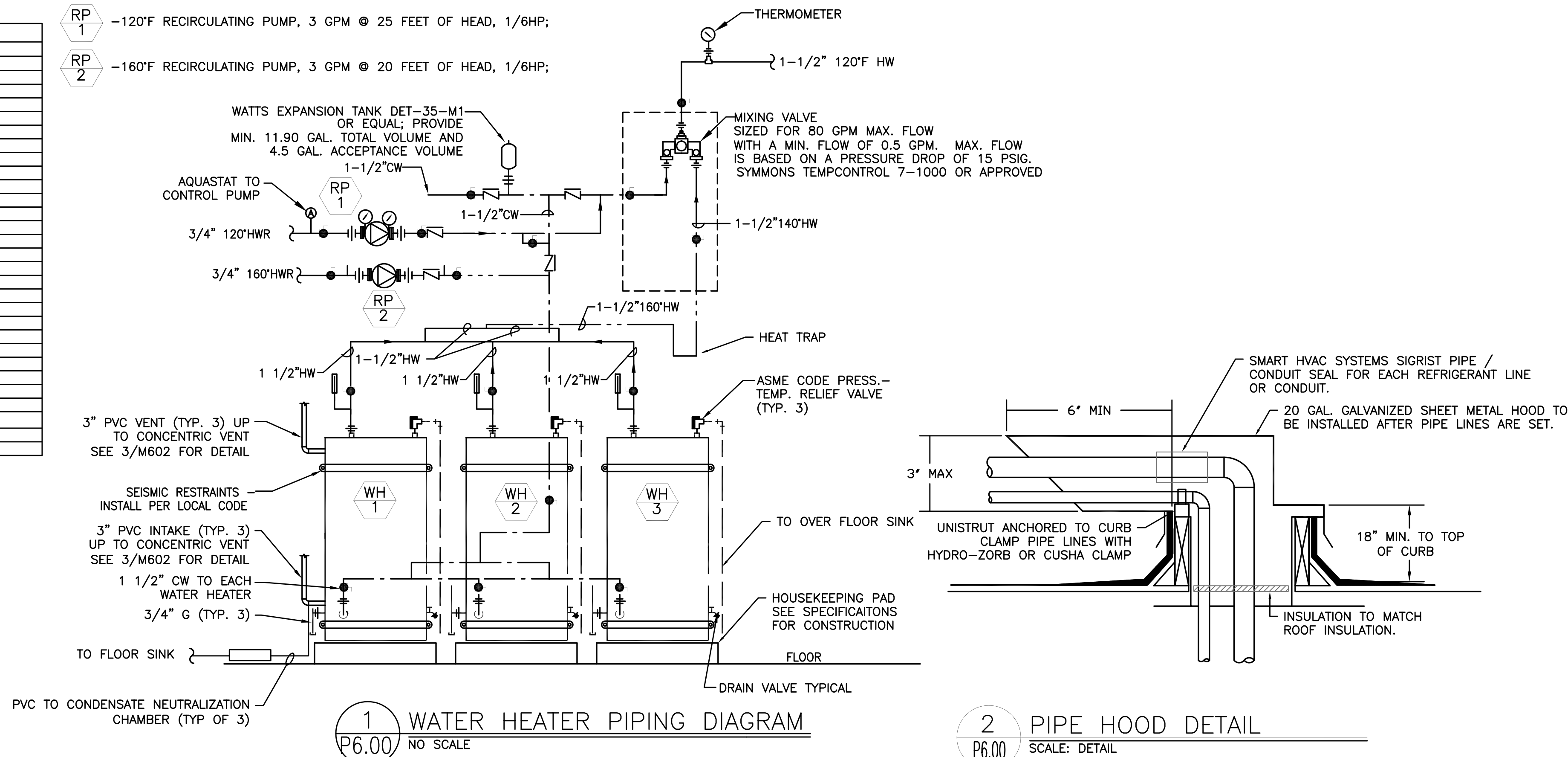
	EQUIPMENT MARK NUMBER		PRESSURE/TEMP RELIEF VALVE
	FIXTURE MARK		BUTTERFLY VALVE
(E)	EXISTING		GAS PRESSURE REGULATING VALVE
	NOTE		TOP CONNECTION
	CONNECT TO EXISTING		BOTTOM CONNECTION
	CAP		PIPE TURNED UP, PIPE TURNED DOWN
	TEE		GATE VALVE
	ELBOW		BALL VALVE
	CLEANOUT		BALANCING VALVE
			CHECK VALVE
			UNION
			DOUBLE CHECK ASSEMBLY

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

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

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	DISHWASH 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"	-	-	-	1" I.D. TO FS
#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"	-	-	-	-	1" I.D. TO FS
#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

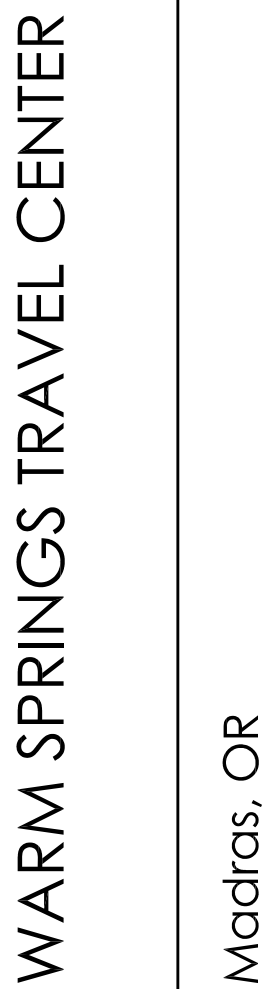
	RP 1	-120°F RECIRCULATING PUMP, 3 GPM @ 25 FEET OF HEAD, 1/6HP;
	RP 2	-160°F RECIRCULATING PUMP, 3 GPM @ 20 FEET OF HEAD, 1/6HP;



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		

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	

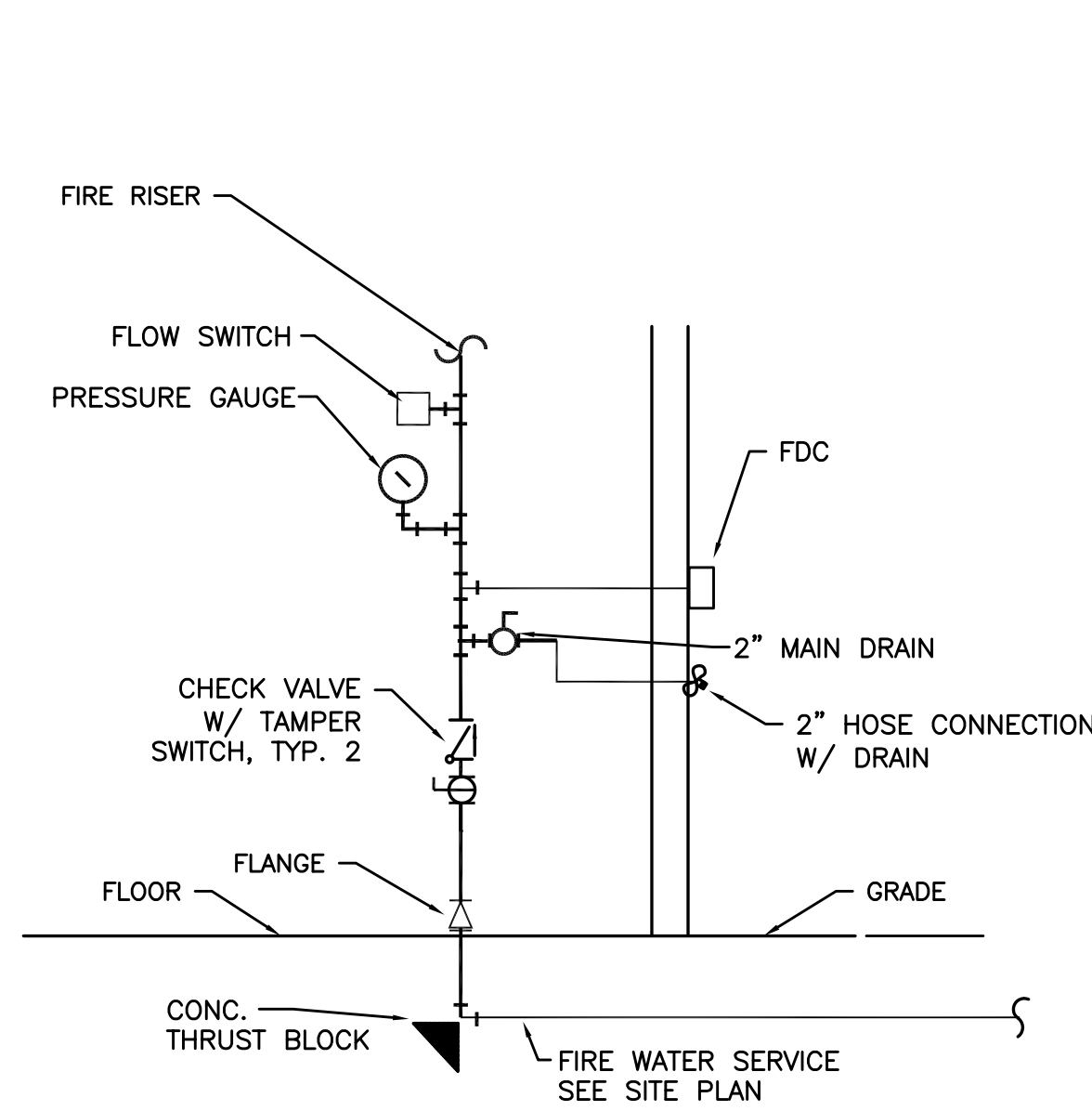
1. PROVIDE WITH SR24 TELEGLIDE RISER ADAPTER AND SV-24 SAMPLING PORT.
2. PROVIDE WITH HIGHWAY RATED COVER.(GT-1 & SAMPLING PORT)
3. PROVIDE WITH BUILT IN FLOW CONTROL & BUILT IN TEST CAP



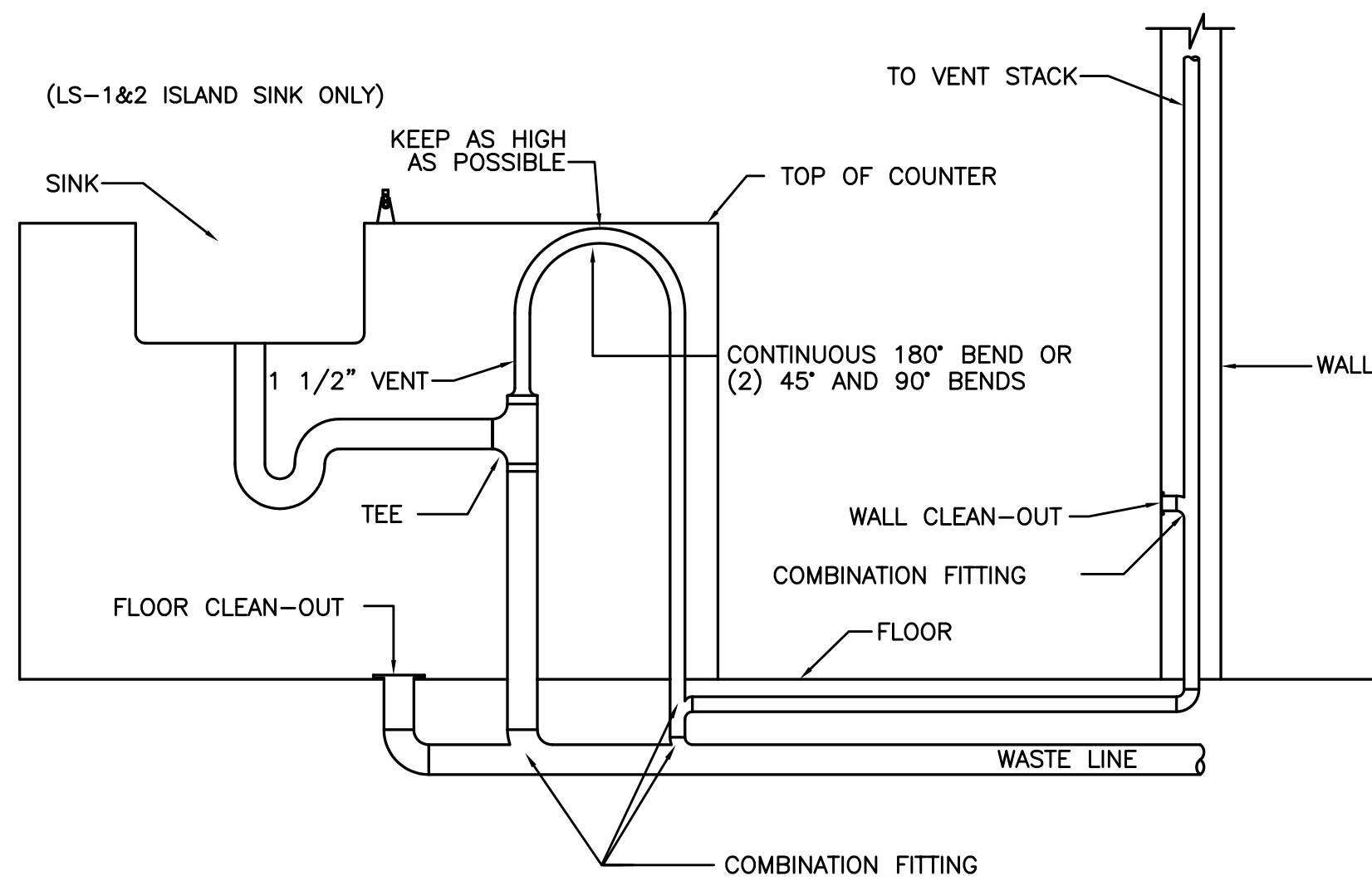
Project Number	1519
Date	OCT. 19, 2016
Drawn By	TB
Checked By	JVB

P6.00

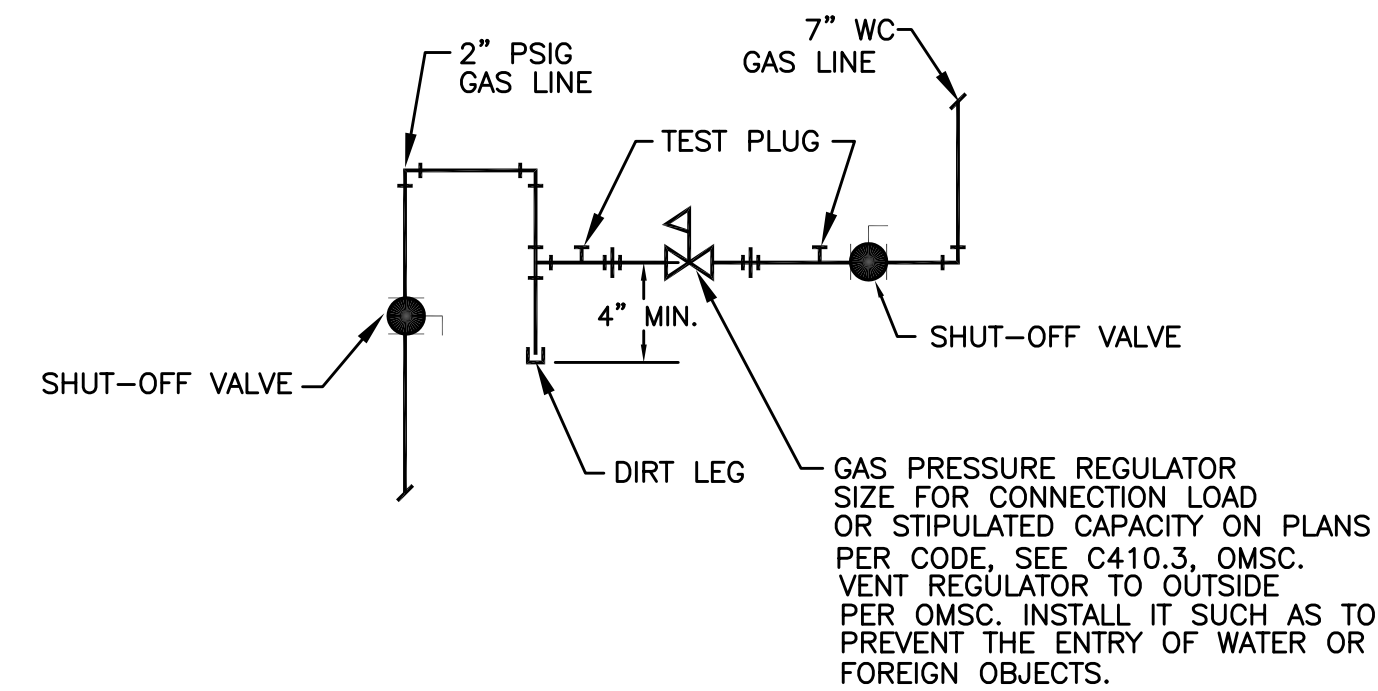
COPYRIGHT © 6/1/2016 7:55:28 AM ARCHITECTS



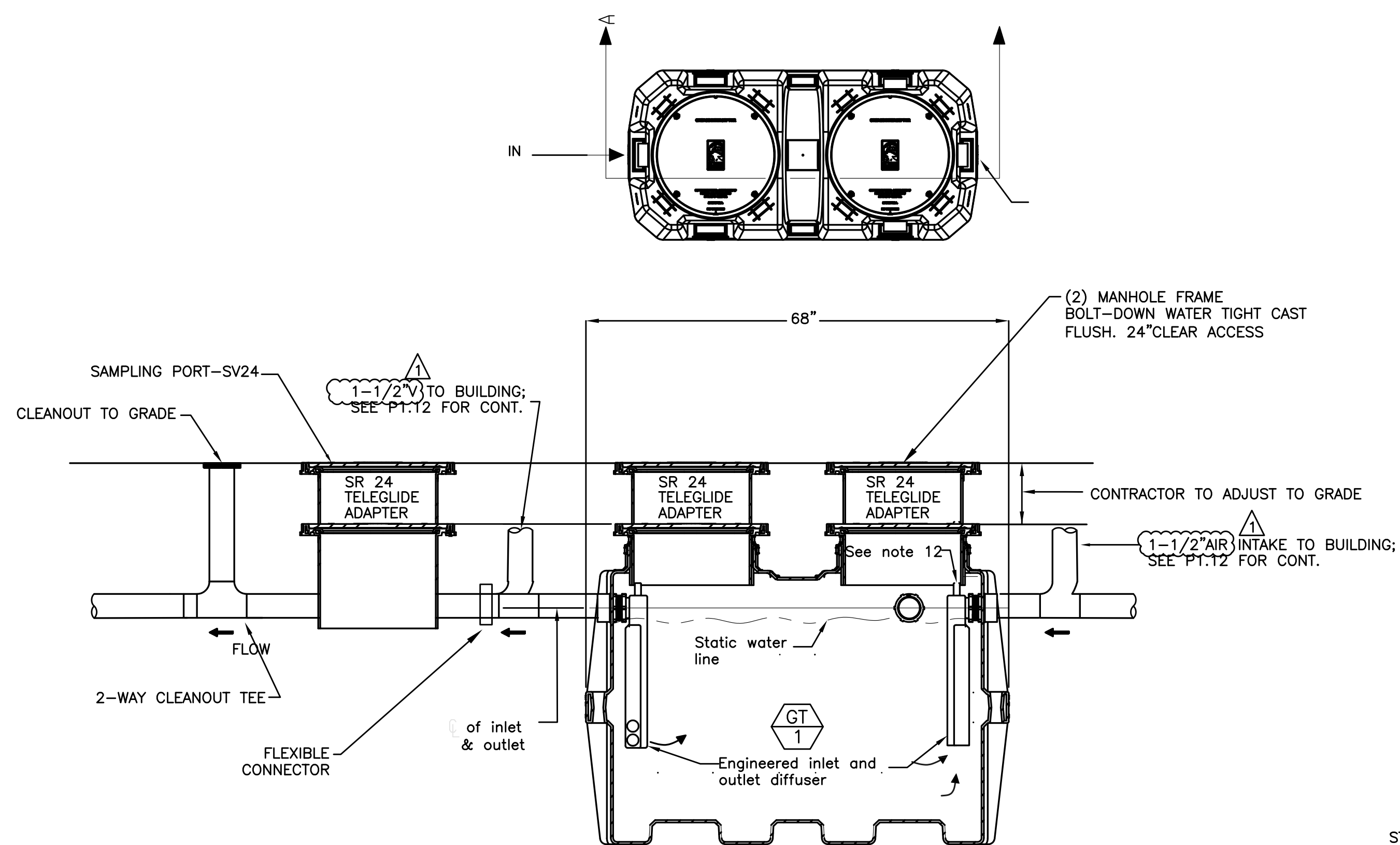
1 FIRE RISER DIAGRAM
P6.01 NO SCALE



2 ISLAND SINK
P6.01 SCALE: DETAIL

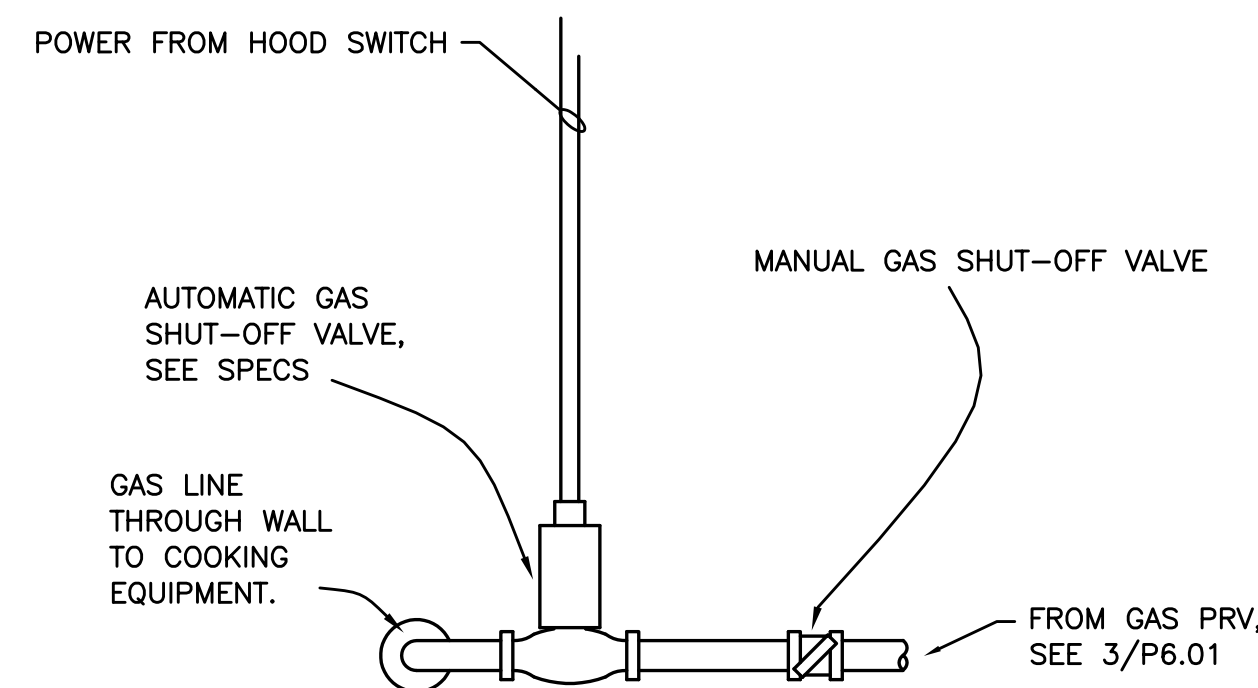


3 GAS PRV DETAIL
P6.01 NTS

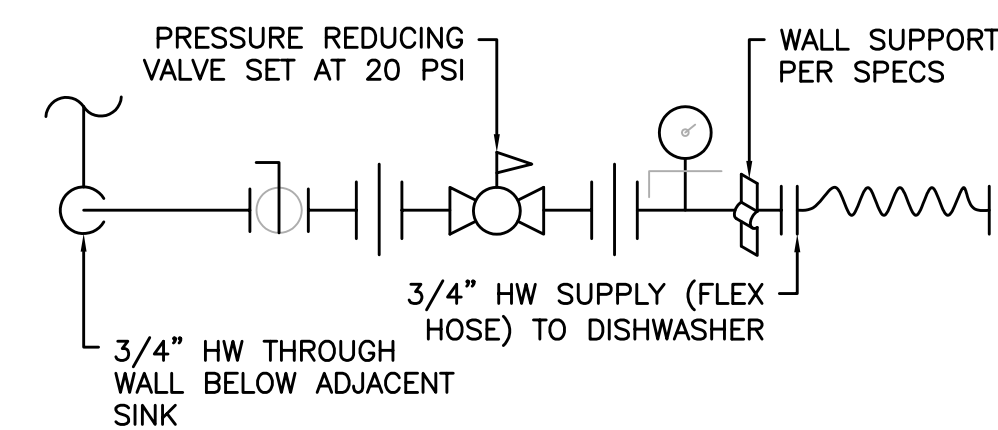


- NOTES
1. THE INTERCEPTOR SHALL BE CERTIFIED BY ASME #A112.14.3 AND LISTED BY IAPMO.
 2. THE INTERCEPTOR SHALL HAVE 3/8" THICK SEAMLESS HIGH DENSITY POLYETHYLENE WALLS.
 3. PROVIDE RISER EXTENSIONS FOR UNIT AND SAMPLING PORT TO ACCOMMODATE BURIAL DEPTH.
 4. PROVIDE COVER IN ACCESSIBLE AREA TO ALLOW 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.

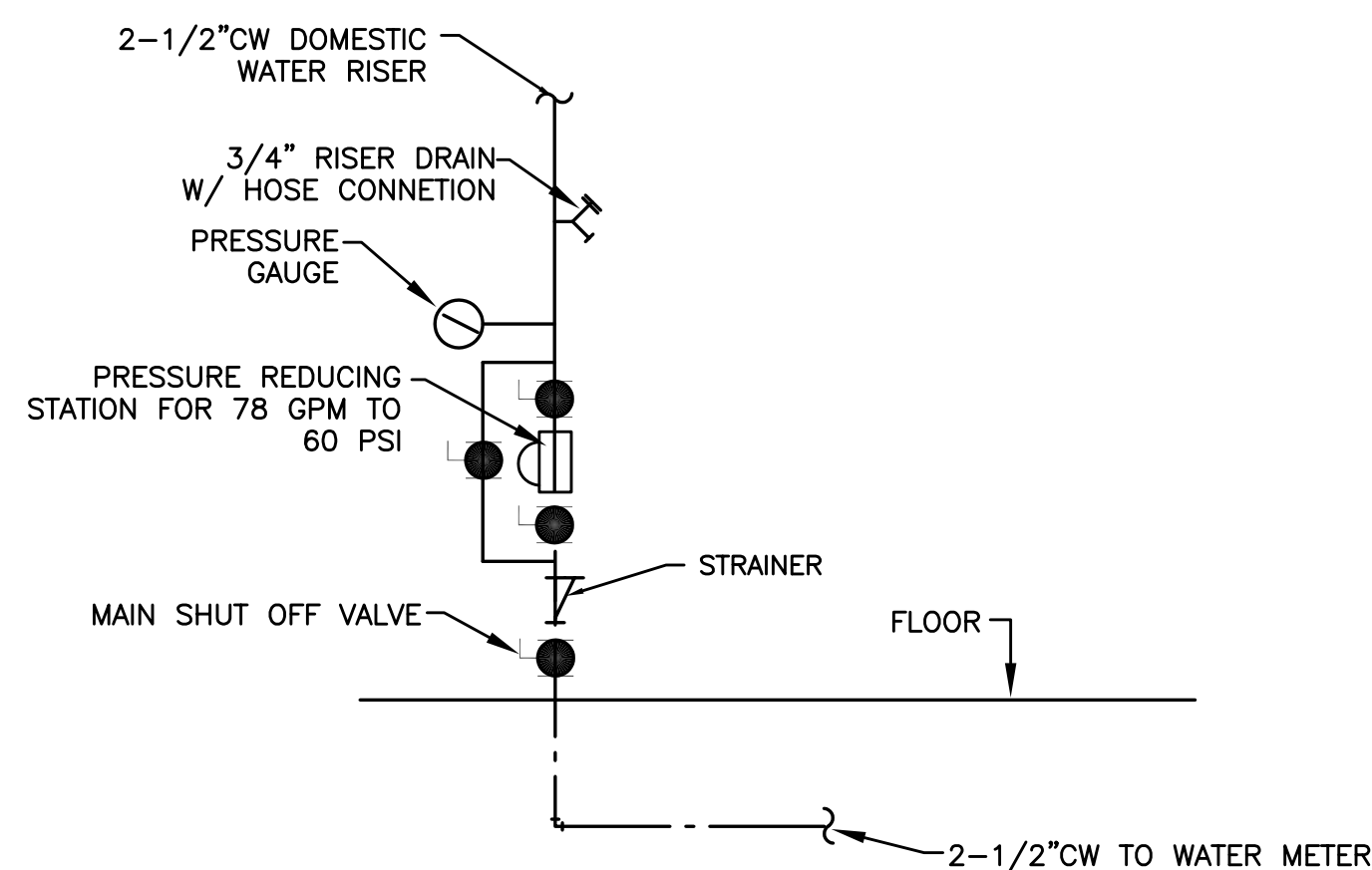
4 GREASE INTERCEPTOR DETAIL
P6.01 NOT TO SCALE



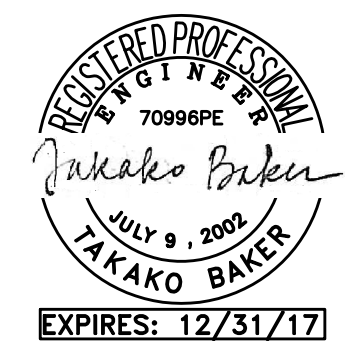
5 AUTO GAS SHUT-OFF ASSEMBLY
P6.01 SCALE: NONE



6 DISHWASHER CONNECTION
P6.01 SCALE: NONE



7 DOMESTIC WATER RISER
P6.00 NTS



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WARM SPRINGS TRAVEL CENTER
Madras, OR

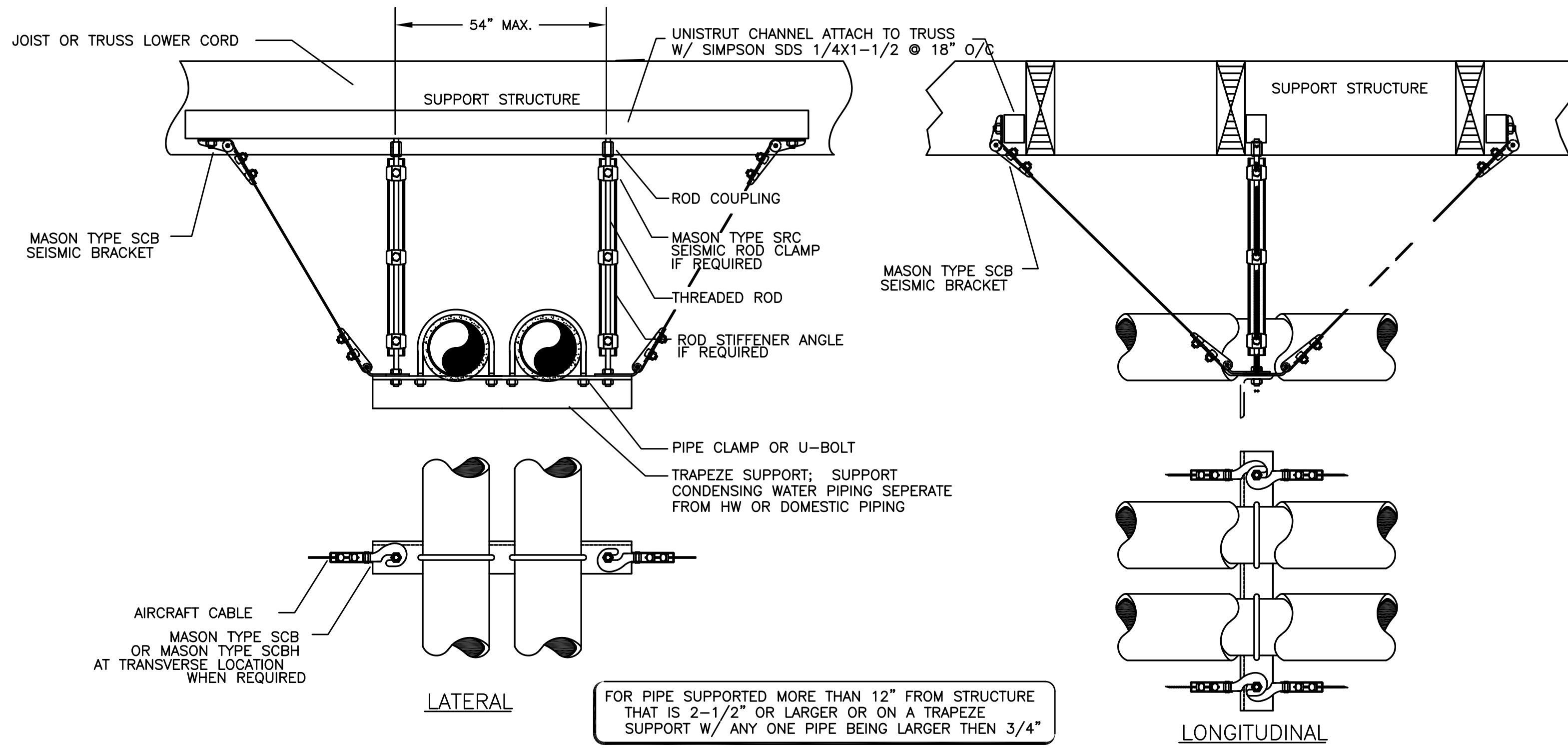
No.	Description	Date
1	Owner/CMGC Revisions	10/19/2016

Project Number 1519
Date OCT. 19, 2016
Drawn By TB
Checked By JVB

PLUMBING
LEGEND &
DETAILS

P6.01

BID SET



FOR PIPE SUPPORTED MORE THAN 12\"/>

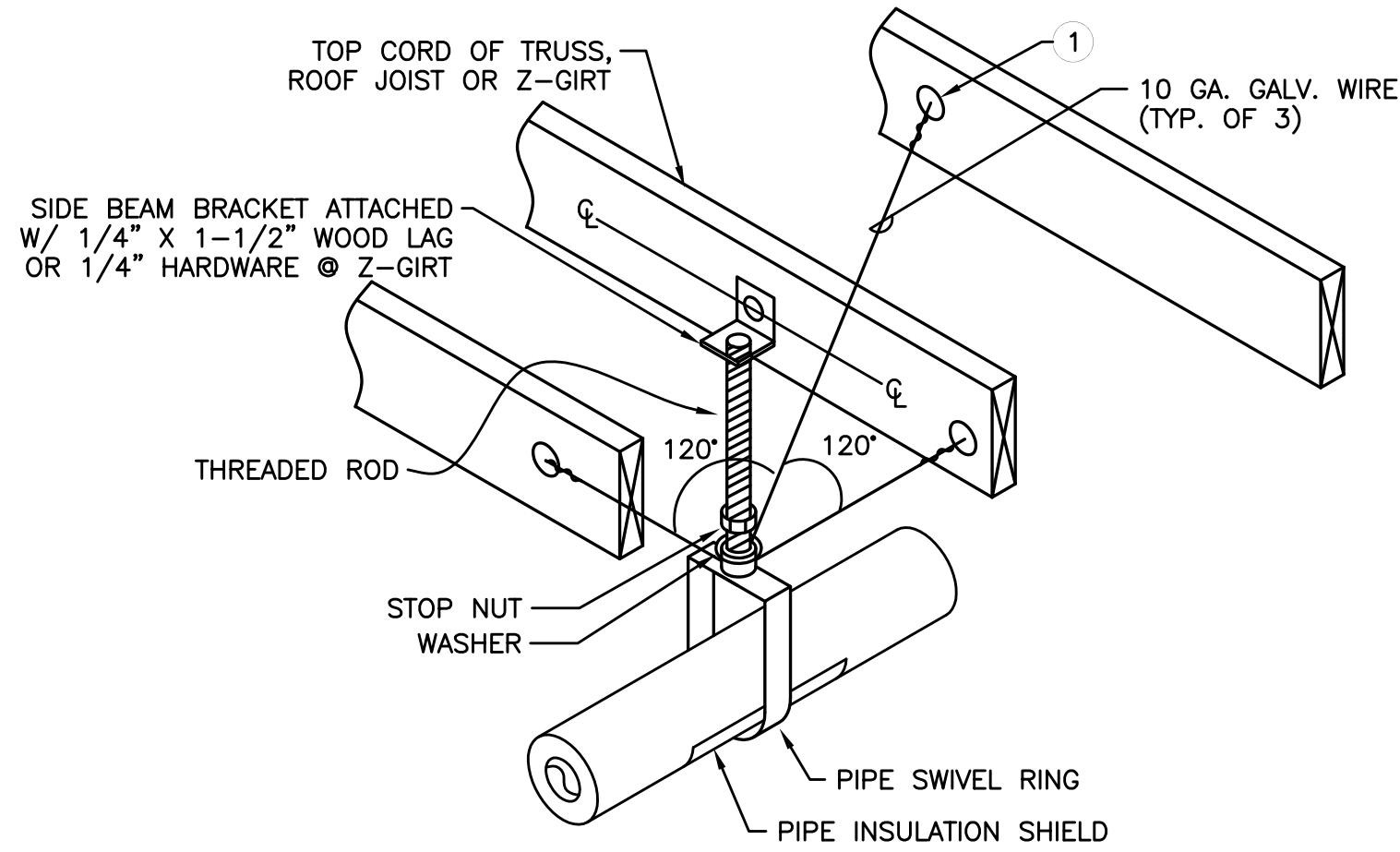
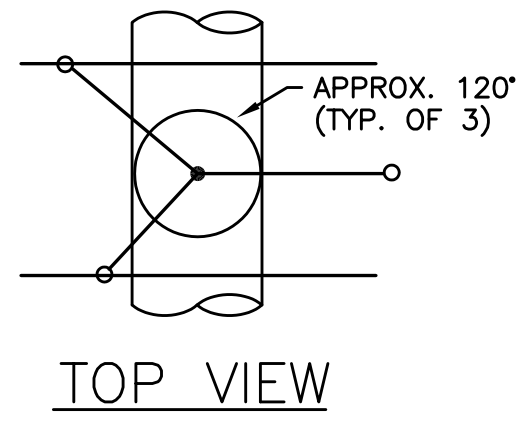
NOTE: MATERIALS BASED ON MASON INDUSTRIES. SIZE MATERIALS BASED ON APPLICATION & MANUFACTURER REQUIREMENT.

1 SEISMIC PIPE SUPPORT
SCALE: DETAIL

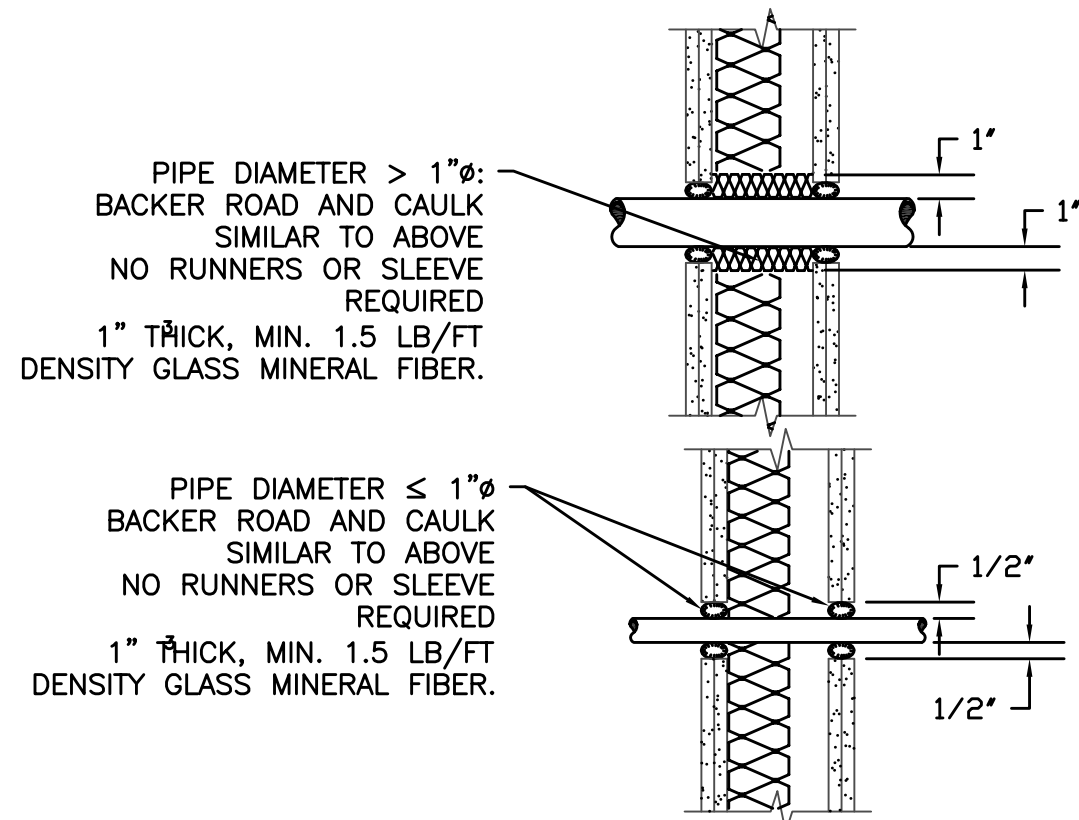
2/P6.02 NOTES

1 - 1/4\"/>

* - MAXIMUM HANGER SPACING SHALL BE AS FOLLOWS:
1-1/4\"/>



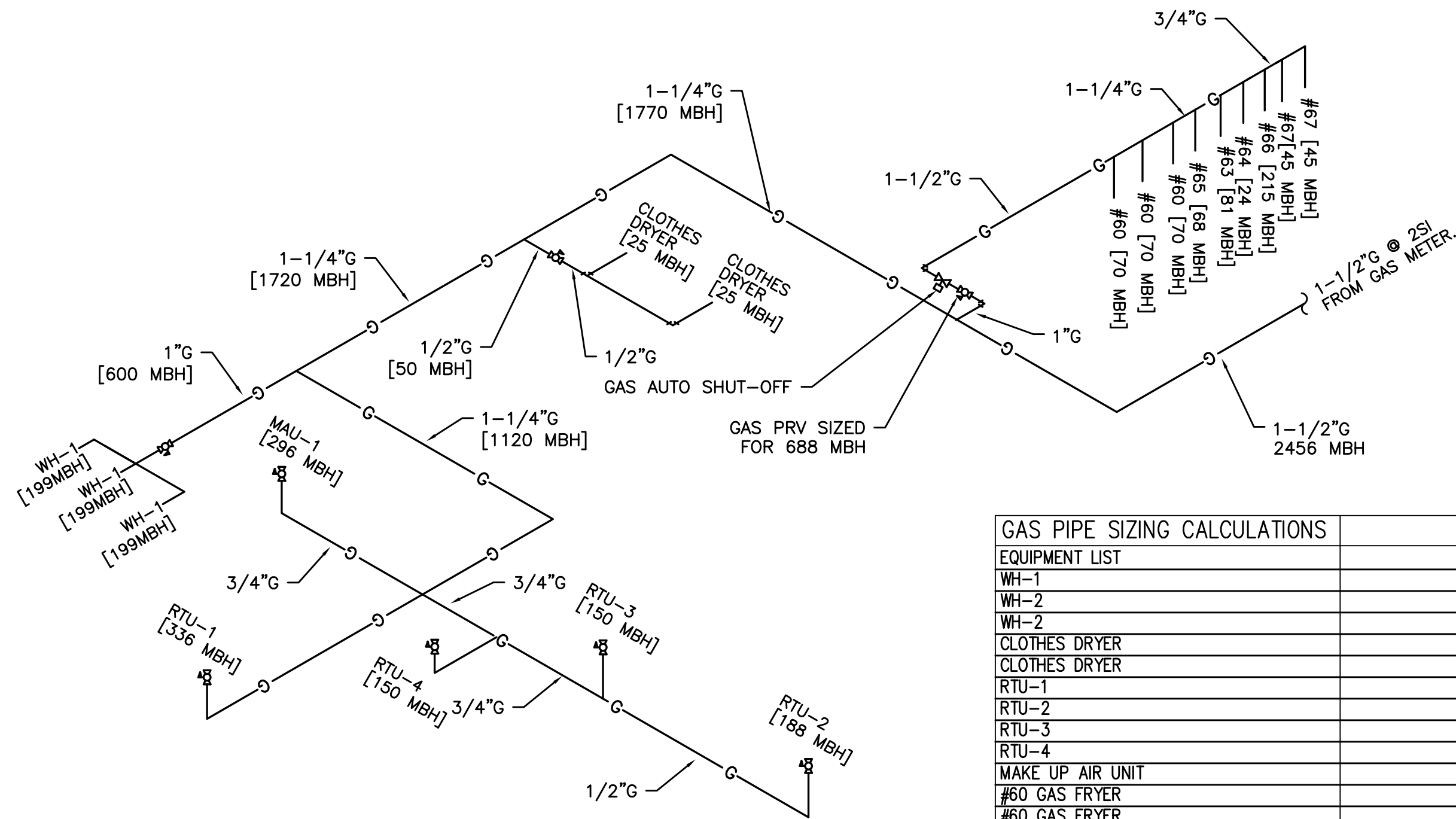
2 NON-SEISMIC PIPE SUPPORT
SCALE: DETAIL



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



GAS PIPE SIZING CALCULATIONS	
EQUIPMENT LIST	CFH
WH-1	199
WH-2	199
WH-2	199
CLOTHES DRYER	25
CLOTHES DRYER	25
RTU-1	336
RTU-2	188
RTU-3	150
RTU-4	150
MAKE UP AIR UNIT	296
#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\"/>

4 GAS PIPING DIAGRAM/CALCS
SCALE: DETAIL



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P6.02

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