



1 PLUMBING ROOF PLAN
P113 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- SEE SHEET P001 FOR ALL GENERAL NOTES.
- TYPICAL VENT THRU-ROOF DETAIL 11/P311.
- ALL PENETRATIONS THRU ROOF SHALL BE BY GENERAL CONTRACTOR AS PER ROOF MANUFACTURER'S STANDARD.
- DO NOT SCALE DRAWING. ALL PLUMBING VENT OUTLETS THROUGH ROOF SHALL TERMINATE AT PARAPET HEIGHT (MIN.).
- ALL PLUMBING ON ROOF MUST BE PERMANENTLY SECURED AND ABLE TO WITHSTAND HIGH WIND LOADS.

CONSTRUCTION NOTES:

- PC SHALL ROUTE WATER HEATER CONCENTRIC VENT SYSTEM TO ROOF AND INSTALL PER MANUFACTURERS RECOMMENDATIONS. PIPING SHALL NOT EXHAUST WITHIN 10'-0" FROM ANY FRESH AIR INTAKE. MINIMUM DISTANCE FROM PARAPET WALL SHALL BE 2'-0". OFFSET AS REQUIRED PER MANUFACTURERS RECOMMENDATION.
- PC SHALL INSTALL SCH. 40 1" PVC CONDENSATE DRAIN LINE FROM EACH RTU AND SF ROUTE TO SPLASH BLOCK ON ROOF. SEE DETAIL 6/P311.
- PIPE SUPPORTS SPACED AT EVERY 10' AND AT ALL CHANGES IN DIRECTION (TYP.). SEE DETAIL 3/P311
- PC SHALL PROVIDE/INSTALL UNION, GAS COCK, DRIP LEG AND REGULATOR AT EACH GAS CONNECTION. REGULATOR VENT SHALL FACE DOWN TO PREVENT ANY RAIN FROM ENTERING THE VALVE.
- HEATED MAKE-UP AIR GAS CONNECTION, SEE THIS SHEET AND HOOD SHEETS.
- VENT THROUGH ROOF, SEE DETAIL 11/P311.
- ROUTE 4" SCH 40 PVC HORIZONTAL AND VERTICAL ROOF DRAIN PIPING DOWN INSIDE WALL AND TERMINATE PER DETAIL ON SHEET A501. SEE DETAIL 6/A161 FOR ROOF DRAIN FUTURE RD-1 INSTALLATION.

ROOF DRAIN SIZING

Physical Data			
Roof Area (ft²):	A.	2058.08	
Are vertical surfaces draining onto roof (Y/N)?:		y	
Front Parapet Area (SF):	B.	199.55	
Rear Parapet Area (SF):	C.	207.55	
Side Parapet Areas (SF):	C.1	689.41	
Parapet Area (ft²) (BxCx0.5):	D.	548.26	
Towers or other large vertical area (not parapet) (Y/N):	n		
Tower 1 Drainage Front Area (SF):	E1.	0.00	
Tower 1 Side Drainage Area (SF):	F1.	0.00	
Tower 1 Vertical Area (ft²) (E1xF1x0.5):	G1.	0.00	
Tower 2 Drainage Front Area (SF):	E2.	0.00	
Tower 2 Side Drainage Area (SF):	F2.	0.00	
Tower 2 Vertical Area (ft²) (E2xF2x0.5):	G2.	0.00	
Vertical Area Requirement (ft²) (D+G1+G2):	H.	548.26	
Total Developed Area (ft²) (A+H):	J.	2606.34	
Table Lookup Data		Primary Conductors	Secondary Conductors
Rainfall Rate (in/hr):		4.00	5.00
Area Correction Factor:		1.00	1.00
VERTICAL CONDUCTORS			
Number of Vertical Conductors:	K.	2	2
Vertical conductor Size (in):		4	4
Calc. Area/Vertical Conductor (ft²) (J/K):	L.	274	274
Maximum Area per Conductor (ft²):		4600	3680
Result:			OK
HORIZONTAL CONDUCTORS			
Large Rainfall Correction Factor:		4.00	5.00
Horizontal conductor Size (in):		4	4
Conductor Slope (% - 1/8 in):		1	1
Calc. Area/Horizontal Conductor (ft²) (J/L):		274	274
Maximum Area per Conductor (ft²):		7200	15050
Result:		OK	OK

Revisions

THRU ADDENDUM "A"
01/20/2022

EQUIP. UPDATE - 06.24.2022

PROJECT DATE
01/07/2022

Drawn By
JCL

Checked By
SDS

Sheet No. 2

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IF ANY DISCREPANCIES ARE FOUND ON THE PLANS, THE PLUMBING CONTRACTOR SHALL BID THE MORE CONSERVATIVE SPECIFICATION AND CALL ENGINEER FOR CLARIFICATION.

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE DESIGNER AND COMPANY CANNOT GUARANTEE AGAINST ERROR OR UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR OR BUILDER MUST CHECK ALL DIMENSIONS, DETAILS AND REPORT ANY DISCREPANCIES.