

GAS LOAD TABLE					
	INPUT(MBH)	REQUIRED PRESSURE	REQUIRED REGULATOR	SYSTEM PRESSURE	NOTES
F-1	66	7"	_	LOW	1,2,3
F-2	66	7"	_	LOW	1,2,3
F-3	66	7"	_	LOW	1,2,3
F-4	66	7"	_	LOW	1,2,3
F-5	66	7"	_	LOW	1,2,3
F-6	66	7"	-	LOW	1,2,3
F-7	66	7"	-	LOW	1,2,3
F-8	66	7"	-	LOW	1,2,3
F-9	66	7"	-	LOW	1,2,3
F-10	66	7"	-	LOW	1,2,3
F-11	66	7"	-	LOW	1,2,3
F-12	66	7"	_	LOW	1,2,3
F-13	44	7"	_	LOW	1,2,3
F-14	44	7"	-	LOW	1,2,3
RTU-1	130	7"	325-3LB	2 PSI	1,2
(E) WH	199.9	7"	(E) REGULATOR	2 PSI	1
TOTAL LOAD	1,210 MBH				

NOTES:

. INSTALL AND VENT REGULATOR PER MANUFACTURER'S RECOMMENDATIONS.

2. COORDINATE WITH MECHANICAL CONTRACTOR FOR EQUIPMENT LOCATIONS AND REQUIRED CONNECTION.

. NEW GAS SYSTEM FOR FURNACES:

- A. PROVIDE PRESSURE REGULATOR (2 PSI 10" W.C.) MAXITROL 325–3L.
 B. GAS PIPING DESIGNED FOR LOW PRESSURE (10" W.C.) WITH
- PRESSURE DROP OF 3" W.C. AND TOTAL LENGTH OF 300 FEET.

GENERAL PLUMBING NOTES THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS. ALL SANITARY PIPING SHALL HAVE A 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED.

- 2" SANITARY OR SMALLER SHALL HAVE A 1/4" PER FOOT SLOPE.
- 3. VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- 4. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
- 7. ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
- 8. CHANGES IN THE DIRECTION OF SANITARY DRAIN PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT UNLESS PHYSICALLY IMPOSSIBLE (I.E.: USE OF SANITARY TEE IN A HORIZONTAL CONNECTION, USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, IN GENERAL, USE OF SHORT-RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION).
- 9. CONTRACTOR SHALL GIVE 48 HOURS HOUR EMERGENCY LOCATE NOTICE TO APPLICABLE UTILITY COMPANY PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
- 10. ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
- 11. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
- 12. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
- 13. ALL VENTS THROUGH ROOF SHALL BE MIN. 10'–0" FROM ANY AIR INTAKES.
- 14. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
- 15. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
- 16. DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER. PROVIDE LINK-SEALS IN ALL PENETRATIONS OF EXTERIOR WALLS.
- 17. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.
- 18. COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.
- 19. ANY ERRORS OR AMBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE ARCHITECT/ENGINEER BEFORE WORK IS STARTED. OMISSION OF PARTICULAR REFERENCE TO ANY ITEM NECESSARY FOR COMPLETE INSTALLATION AND PROPER OPERATION THEREOF SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING THE SAME AT NO EXTRA COST. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DOCUMENTS FOR INFORMATION PRIOR TO BID.
- 20. VERIFY WITH ARCHITECT ON ALL EQUIPMENT AND FIXTURES REQUIRING PLUMBING PRIOR TO BID. COORDINATE EXACT LOCATIONS AND CONNECTIONS.
- 21. ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
- 22. CONTRACTOR SHALL PAY ALL FEES, PERMITS, LICENSES, ETC. NECESSARY FOR PROPER COMPLETION OF WORK.
- 23. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

PLUMBING PIPING LINETYPES				
LINETYPE	DESCRIPTION			
	DEMOLITION			
G	GAS			
	SANITARY ABOVE GRADE			
	SANITARY BELOW GRADE			
	STORM ABOVE GRADE			
	STORM BELOW GRADE			
	VENT ABOVE GRADE			
	VENT BELOW GRADE			
	COLD WATER			
	COLD WATER BELOW GRADE			
	HOT WATER			
	HOT WATER BELOW GRADE			
	RECIRC WATER			
	RECIRC WATER BELOW GRADE			

PLUMBING PIPING LEGEND						
	CIRCUIT SETTER					
−₹	BALL VALVE OR SHUT-OFF VALVE					
	SPRING CHECK VALVE					
	END CAP					
 	NEW TO EXISTING PIPE CONNECTION					
	FLOW DIRECTION ARROW					
${\color{black}\textcircled{\black}}$	NEW TO EXISTING POINT OF CONNECTION SYMBOL					
•	PIPE CONNECTION					
ρ	HAMMER ARRESTOR (PISTON TYPE)					
\Diamond	HAMMER ARRESTOR (BELLOWS TYPE)					
	PIPING LINEWEIGHT: NEW/DEMOLITION					
	PIPING LINEWEIGHT: EXISTING					

PLUMBING ABBREVIATIONS						
AG ADD ADDL ADJ AFF AFG ALT BG CO COL CW DN DS EC ECO EQ FCO FD FLR FS FT F GAL GC GPM GI GW HW HWR	ABOVE GRADE ADDENDUM ADDITIONAL ADJUSTABLE ABOVE FINISH FLOOR ABOVE FINISH GRADE ALTERNATE BELOW GRADE CLEANOUT COLUMN COLD WATER DOWN DOWNSPOUT ELECTRICAL CONTRACTOR EXTERIOR CLEANOUT EQUAL FLOOR CLEANOUT FLOOR DRAIN FLOOR FLOOR SINK FOOT (FEET) FURNACE GALLON GENERAL CONTRACTOR GALLONS PER MINUTE GREASE INTERCEPTOR GREASE WASTE HOT WATER HOT WATER RETURN	MAU MC MECH MIN NG NTS NPCW ORD OS OSD PC PLBG PRES QTY RD RTU SAN SCH SD SPEC SS TEMP TYP UR V VTR W/ WCO WC	MECHANICAL CONTRACTOR MECHANICAL MINIMUM NATURAL GAS NOT TO SCALE NON POTABLE COLD WATER OVERFLOW ROOF DRAIN OPEN SITE OVERFLOW STORM DRAIN PLUMBING CONTRACTOR PLUMBING PRESSURE QUANTITY ROOF DRAIN ROOFTOP UNIT SANITARY SCHEDULE STORM DRAIN SPECIFICATIONS STAINLESS STEEL			

PLUMBING SHEET INDEX				
P000	PLUMBING TITLE SHEET			
P100	PLUMBING SITE PLAN			
P101	PLUMBING PLAN			
P201	PLUMBING PLAN – ROOF			
P501	PLUMBING DETAILS			



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SALAS O'BRIEN



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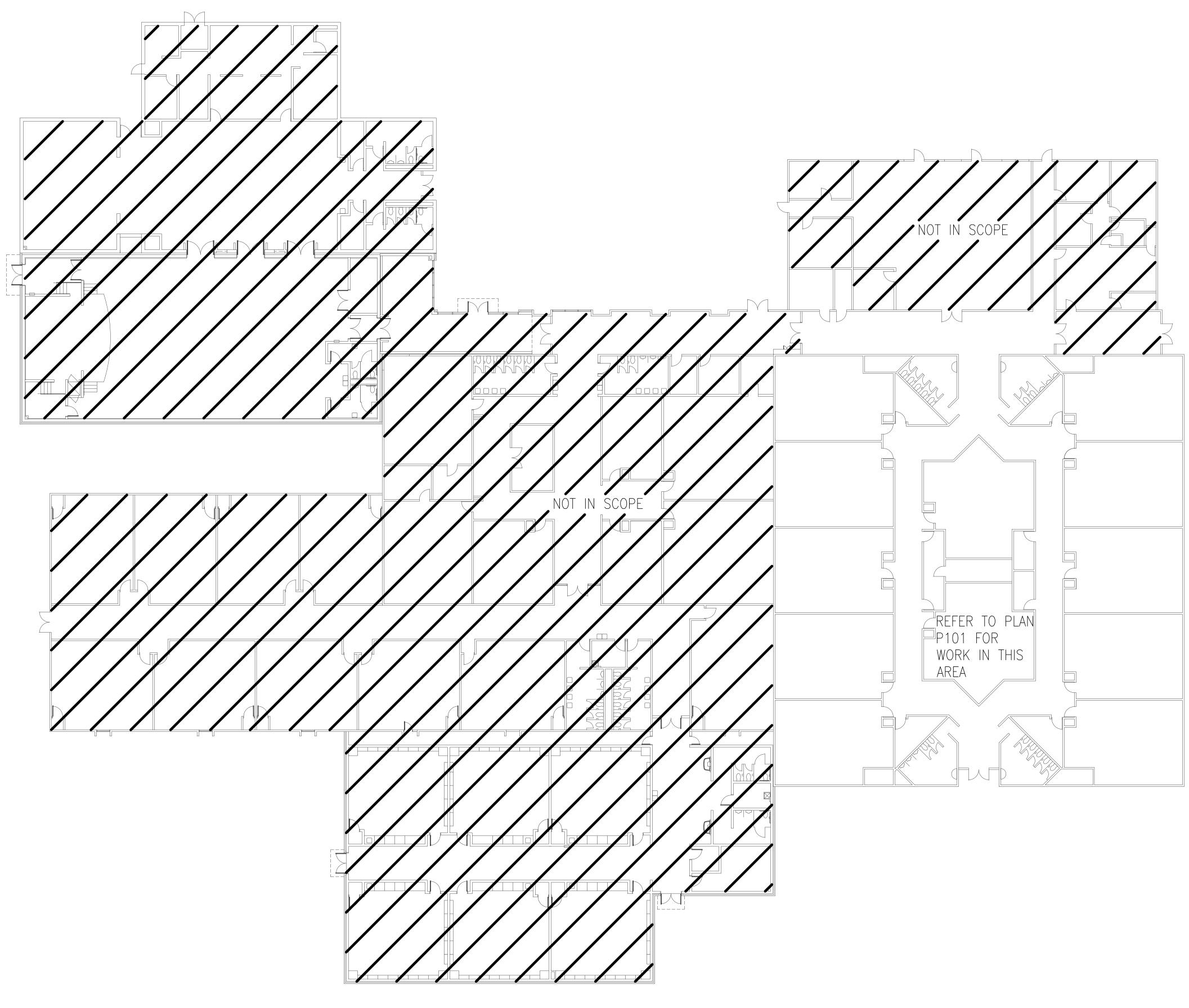


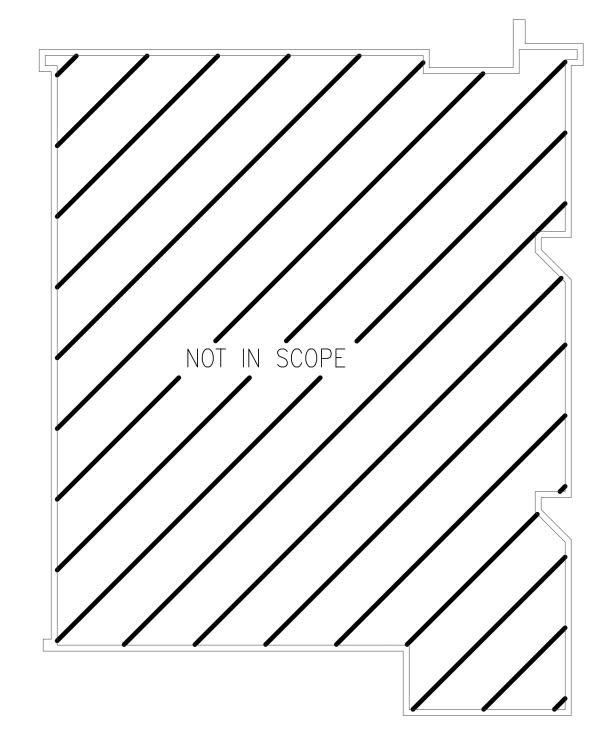
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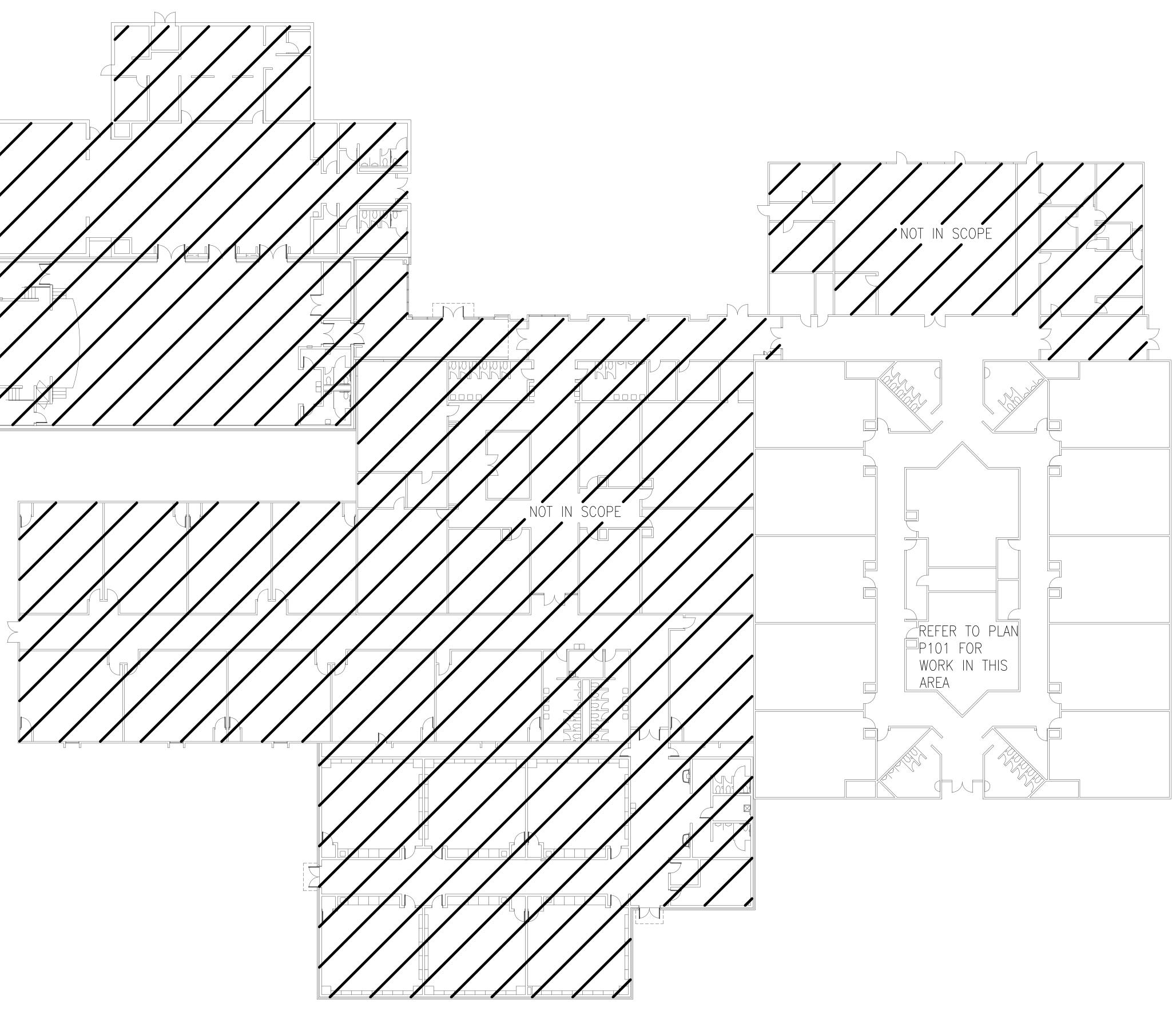
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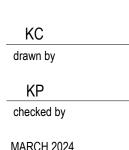




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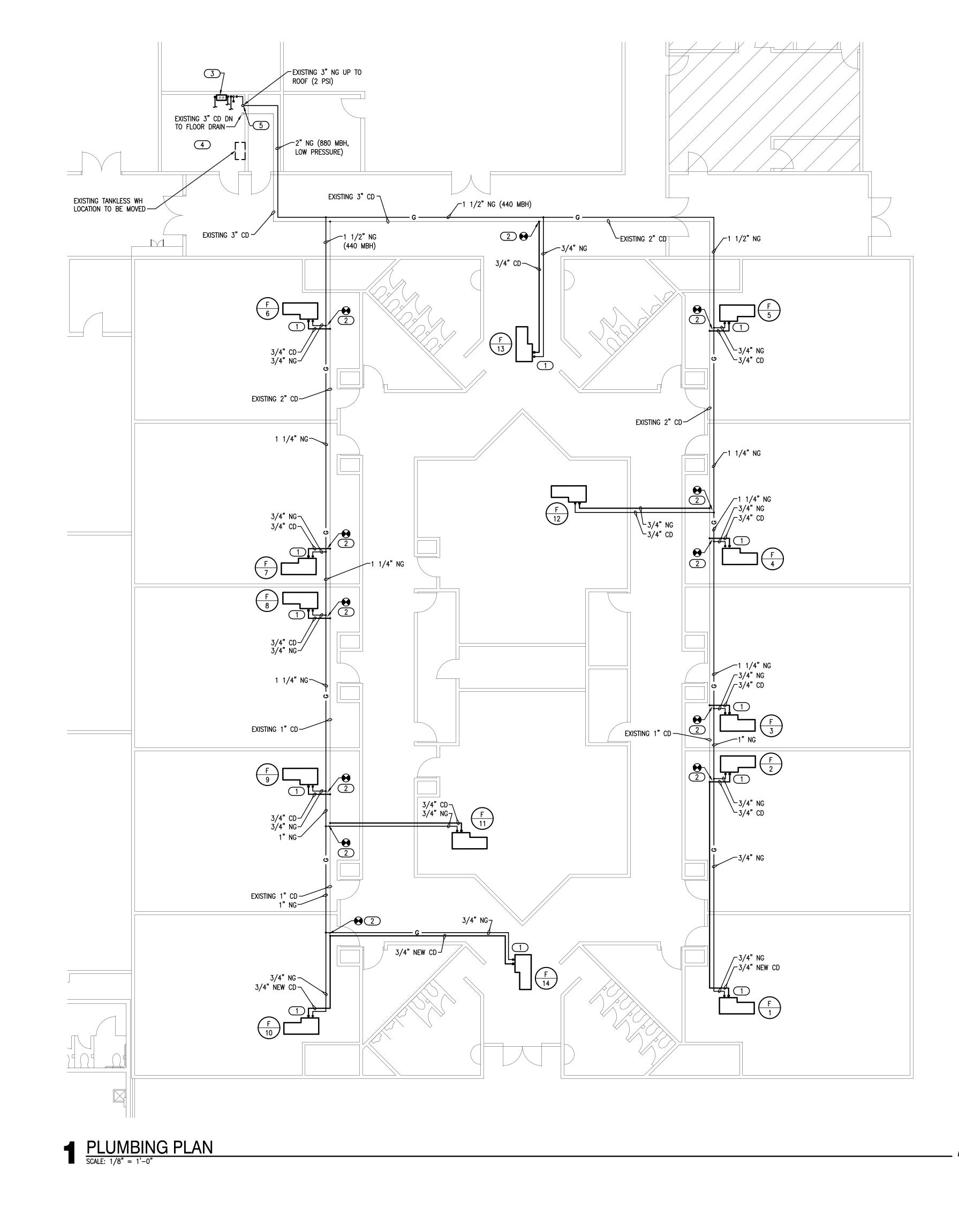
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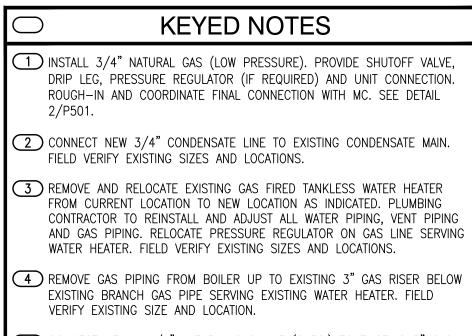
Salas O'Brien

2600 Van Buren St., Suite 2635 Norman, OK 73072 Salas O'Brien Registration: CA# 7058 Expiration Date : 6/30/2025 Salas O'Brien Project Number: 2024-01144-00



GENERAL NOTES

- 1. COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
- 2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- 3. SUPPORT PIPING PER LOCAL PLUMBING CODES.



5 CONNECT NEW 1 1/4" NATURAL GAS LINE (2 PSI) TO EXISTING 3" GAS RISER BELOW BRANCH LINE SERVING WATER HEATER. INSTALL PRESSURE REGULATOR (2 PSI – 10" W.C.) MAXITROL 325–3L OR EQUAL. EXTEND 2" NATURAL GAS LINE (LOW PRESSURE) TO SERVE NEW FURNACES.



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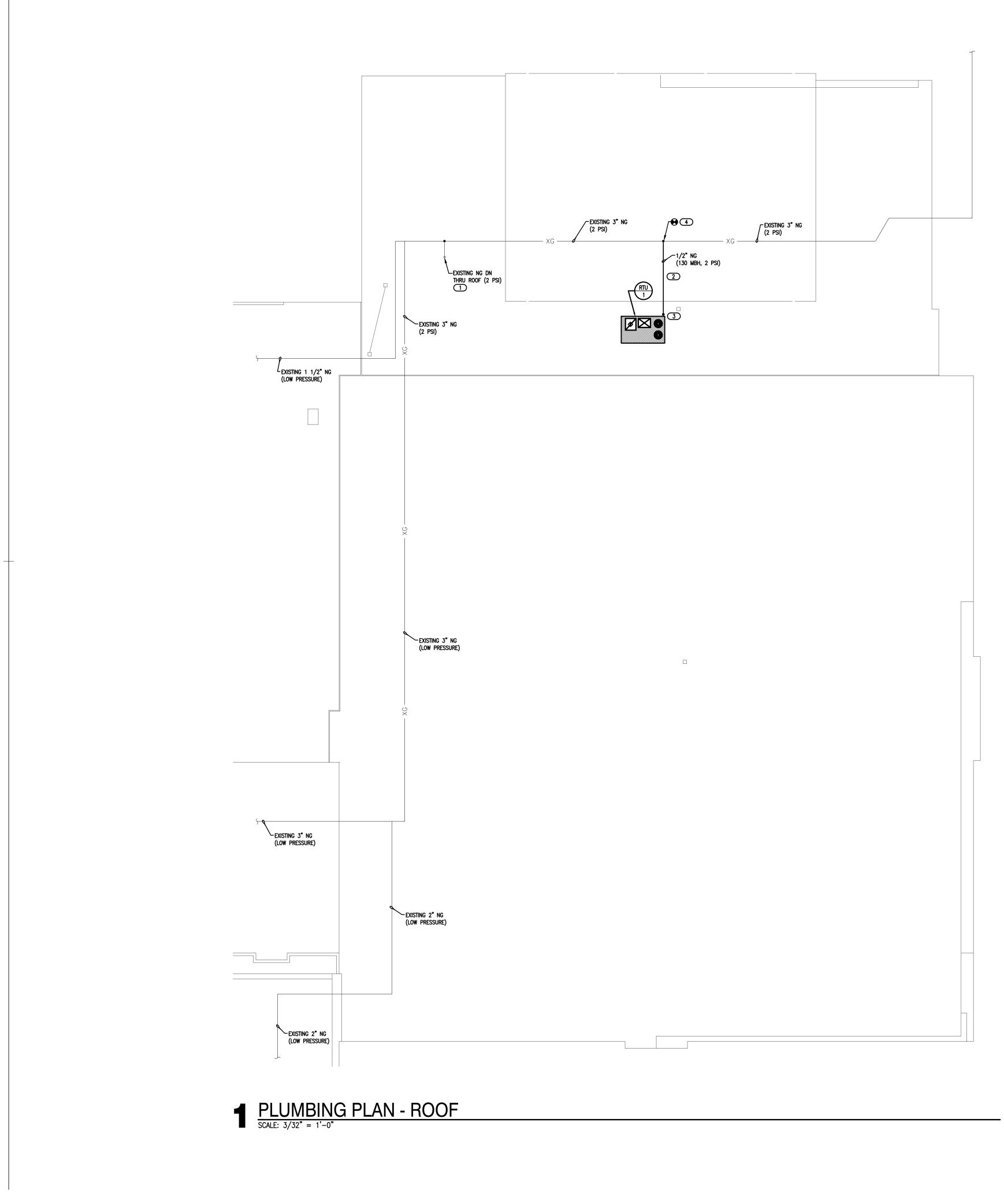
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GENERAL NOTES

- 1. COORDINATE WORK WITH ALL TRADES ON SITE.
- 3. ALL ABOVE GRADE EXTERIOR NATURAL GAS PIPE SHALL BE CLEANED AND DEGREASED PRIOR TO BEING PRIMED THEN PAINTED YELLOW WITH WEATHER RESISTANT ZINC RICH PAINT.

2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

- 4. PIPE IDENTIFICATION SHALL BE THE WORD "NATURAL GAS" IN BLACK LETTERS AT 5 FT INTERVALS USING PLASTIC PIPE MARKERS OR STENCILED PAINTED LETTERS.
- 5. ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.
- 6. MAINTAIN MINUMUM OF 10'-0" CLEAR BETWEEN EXHAUST AND INTAKE VENTS WITH MECHANICAL EQUIPMENT AND OTHER ROOF OPENINGS.

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KEYED NOTES

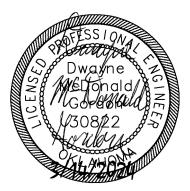
- 1 EXISTING NATURAL GAS LINE (2 PSI) DOWN THRU ROOF. PROVIDE NEW BOOT JACK AT ROOF PENETRATION AND SEAL WATERTIGHT. COORDINATE INSTALLATION WITH ROOFING CONTRACTOR. SEE PLAN P101 FOR CONTINUATION.
- 2 ROUTE NATURAL GAS LINE (LOW PRESSURE) ON ROOF. PROVIDE MIRO INDUSTRIES MODEL 3-RAH-7 ROOF TOP SUPPORTS OR APPROVED EQUAL. INSTALL AT MAXIMUM OF 10'-0" APART (CENTER TO CENTER) ON ALL 1 1/4" NATURAL GAS PIPING OR LARGER. INSTALL AT 8'-0" APART ON 1" OR 3/4" NATURAL GAS PIPING. INSTALL AT 6'-0" APART ON 1/2" NATURAL GAS PIPING. REFER TO GENERAL NOTES FOR PAINTING GAS LINE. SEE DETAIL 1/P501 FOR PIPE SUPPORT DETAIL.
- INSTALL NATURAL GAS (2 PSI) LINE TO ROOFTOP UNIT. PROVIDE SHUTOFF VALVE, PRESSURE REGULATOR, DRIP LEG AND FINAL UNIT CONNECTION. ROUGH-IN AND COORDINATE FINAL CONNECTION WITH MC. SEE DETAIL 3/P501.
- CONNECT NEW 1/2" NATURAL GAS LINE INTO TOP OF EXISTING NATURAL GAS LINE.



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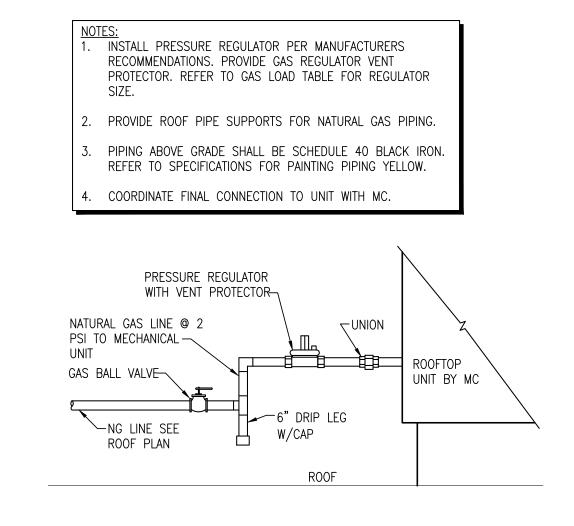


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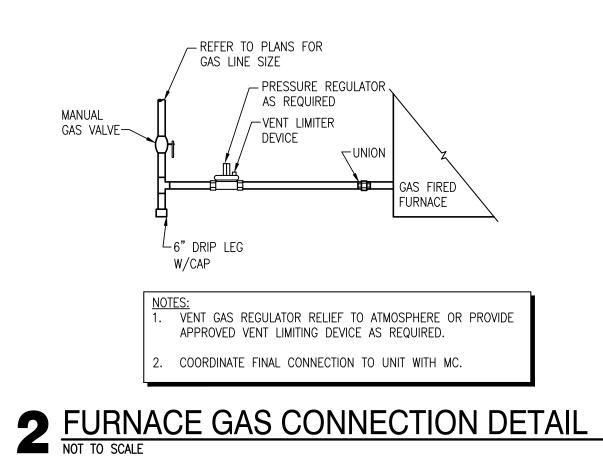
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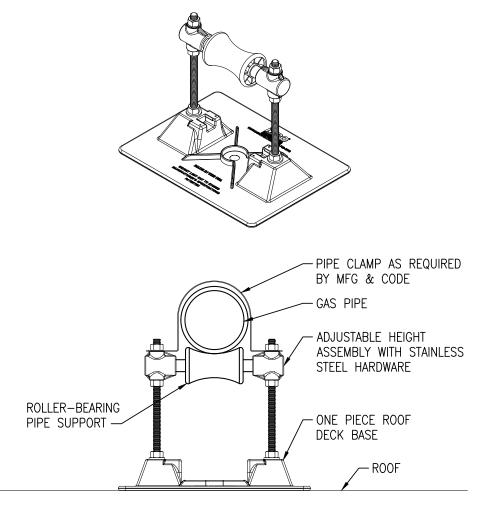


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1 ROOF PIPE SUPPORT DETAIL NOT TO SCALE



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