4" SANITARY, REFER TO SHEET

2"(28.9 F.U.)

2"(29.9 F.U.)

ᄎ AT 48" ABOVE

FINISHED FLOOR

2" UNDERGROUND DOMESTIC

WATER SERVICE.

SEE CIVIL PLANS

FOR CONTINUATION.

HOUSE VALVE

P2.0 FOR CONTINUATION

2"(28.9 F.U.)

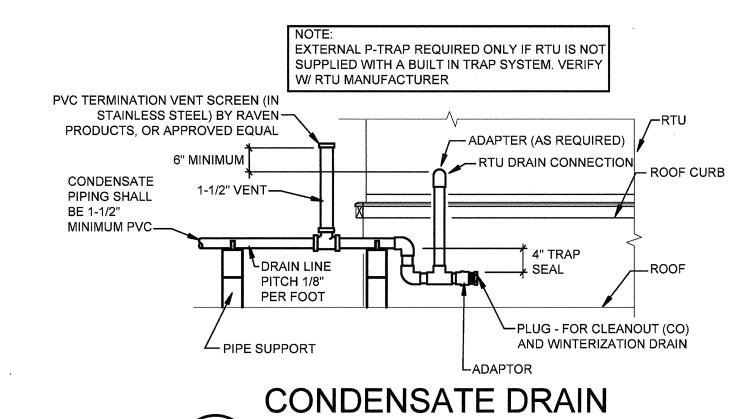
3/4"(1 F.U

_ , , , , , , , , ,

PLBG. SCHEDULES, **DETAILS & ENL. PLANS**

COLD WATER LINE ABOVE CEILING — COLD WATER 6 1/2" SHUT OFF VALVE TRAP PRIMER VALVE WITH INTEGRAL BACKFLOW PREVENTER AND VACUUM BREAKER AG-500 AIR GAP FITTING ------ PRECISION PLUMBING **DISTRIBUTION UNIT** PRODUCTS #DU-3 ----#P1-500 SECURE DISTRIBUTION UNIT TO BACKING SHEET BETWEEN STUDS. 1/2" COPPER TUBING TRAP SUPPLIES. ROUTE BELOW FLOOR [] TO FLOOR DRAIN TRAPS. SEE PLAN ON SHEET P1. —————

TRAP PRIMER DETAIL SCALE: NOT TO SCALE



1. THE PLUMBING SUBCONTRACTOR'S SCOPE OF WORK INCLUDES ALL WORK

2. SANITARY PIPING TO BE PVC. SLOPE 4" SANITARY PIPING AT 1% SLOPE, USE

3. THE PLUMBING SUBCONTRACTOR SHALL COORDINATE LOCATIONS OF ALL

COORDINATION OF ALL PIPING, EQUIPMENT, DUCTS, VALVING, AND SERVICE

PLUMBING PIPING TO CLEAR INTAKE LOUVERS. PROVIDE 10'-0" CLEARANCE IN ALL

4. THE PLUMBING SUBCONTRACTOR SHALL REFER TO THE FIXTURING PLAN FOR

RISERS WITH THE FIXTURING. ALL SYSTEMS SHALL BE ROUTED AND/OR LOCATED

MADE WITHOUT REGARD TO FIXTURING SHALL BE CORRECTED AT NO ADDITIONAL

AS REQUIRED TO AVOID INTERFERENCE WITH THE FIXTURES. INSTALLATIONS

CAST IRON ONLY WHERE REQUIRED BY CODE OR AUTHORITY HAVING

DIRECTIONS FROM VENTS THROUGH ROOF TO OUTSIDE AIR INTAKES.

WITHIN BUILDING UNLESS OTHERWISE NOTED.

COMPLETION OF WORK AND TESTING.

<u>LAV-1</u>

JOIST WITH ALLOWANCE FOR SLOPE AS REQUIRED.

DRAIN CONNECTION.

FLOOR MOUNT WALL CARRIER WITH CONCEALED ARMS.

BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION.

AWAY ROOF MATERIAL INSIDE OF CLAMPING COLLAR.

MATERIAL INSIDE OF CLAMPING COLLAR.

HANDICAPPED PEOPLE" AND/OR GOVERNING CODES.

AREAS WHERE HUNG CEILING IS APPLIED. 11. CONDENSATE PIPING SHALL BE 1-1/2" MINIMUM PVC. EXTERIOR PVC

CONDENSATE PIPING SHALL BE PAINTED. USE LONG RADIUS SWEEPS ON

12. COORDINATE PLUMBING/ FIRE PROTECTION SERVICES INTO BUILDING WITH STRUCTURAL FOOTING DRAWINGS.

13. DOMESTIC WATER PIPE SIZES ARE BASED ON FLOW CONDITIONS OF 55 GPM AND 55 PSI AT THE MAIN. VERIFY FLOW CONDITIONS. IF ACTUAL FLOW CONDITIONS ARE DIFFERENT, CONTACT MECHANICAL ENGINEER. 14. PROVIDE FIXTURES AS SPECIFIED OR AS OTHERWISE APPROVED BY ARCHITECT. SUBSTITUTES NOT ALLOWED WITHOUT ARCHITECT'S SPECIFIC

6. THE PLUMBING SUBCONTRACTOR SHALL FILL FLOOR DRAINS WITH WATER UPON 16. REFER TO SHEET P2.0 FOR MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

17. ALL PENETRATIONS THRU FIRE-RESISTANCE -RATED ASSEMBLIES SHALL BE SEALED IN ACCORDANCE WITH THE LOCAL CODE TO MAINTAIN FIRE RATING.

CONDENSATE DRAINAGE. BENEATH BLOCK. CONDENSATE PIPE TO BE PAINTED. **ROOF PIPING** P1.0 SCALE: NOT TO SCALE P1.0 SCALE: NOT TO SCALE PARAPET WALL SEAL TO CMU, TYPICAL BOTH SIDES-PIPE STAND -

18. CONTRACTOR SHALL VERIFY ALL MECHANICAL GAS FIRED EQUIPMENT

19. RTU GAS PIPE BRANCHES HAVE BEEN CALCULATED USING MAXIMUM POSSIBLE DISTANCE TO INLET CONNECTION. BRANCH CONNECTIONS SHALL FEED UNITS INDIVIDUALLY EXCEPT WHERE INDICATED ON PLAN.

20. GAS PIPE BRANCH CONNECTIONS MAY BE SHIFTED LATERALLY TO COORDINATE WITH RTU INLET.

21. GAS PIPING SHALL RETAIN 5'-0" MINIMUM CLEARANCE FROM ALL PARAPETS. 22. GAS INPUTS SHOWN ARE BASED UPON A GAS HEATING VALUE OF 1000 BTU PER CUBIC FOOT AND SEA LEVEL ELEVATION.

23. UPON COMPLETION OF NATURAL GAS PIPING AND CONTROLS, MECHANICAL CONTRACTOR SHALL START ALL GAS FIRED EQUIPMENT. LOCK EQUIPMENT CONTROLS SUCH THAT ALL UNITS ARE RUNNING AT FULL LOAD CAPACITY. ONCE ALL GAS FIRED EQUIPMENT IS RUNNING SIMULTANEOUSLY AT FULL LOAD CAPACITY, TAKE GAS PRESSURE READINGS AT EACH PIECE OF EQUIPMENT WITH WATER TUBE MANOMETER. (AT THE UNIT GAS MANIFOLD DOWNSTREAM OF THE UNIT GAS COCK). PROVIDE A WRITTEN REPORT TO THE ARCHITECT/ENGINEER ITEMIZING THE RECORDED PRESSURE AT EACH UNIT.

PLUMBING GENERAL NOTES

10. ALL ABOVE GRADE PIPING SHALL BE RUN CONCEALED IN ALL ROOMS AND

5. THE PLUMBING SUBCONTRACTOR SHALL VERIFY AND MAKE CONNECTION TO

PLUMBING FIXTURE SCHEDULE	GAS PRE	SSURE RI	EGULA ⁻	TOR SPECI	FICATIONS
SPECIFICATIONS CLOSET: (ADA) AMERICAN STANDARD # 2257.103, WALL HUNG 18" HIGH, VITREOUS CHINA, ELONGATED	MANUFACTURER MODEL	CFH CAPACITY	INLET PRESSURE	OUTLET PRESSURE	SPRING COLOR- RANGE- ORIFICE
JET, FLUSH VALVE: SLOAN # 111 (LOW CONSUMPTION 1.6 GALLON PER FLUSH) SEAT: CHURCH C WITH OPEN FRONT. CARRIER: J.R. SMITH #0542F (FLOOR MOUNTED) CARRIER MUST BE COMPACT	ACTARIS (SCHLUMBERGER) B-31R 3/4"x3/4"	UP TO 575	2 PSIG	7" WATER COLUMN	LIGHT GREEN - 5.5" to 8.0" WATER COLUMN - 1/2'
RY: SEE ARCHITECTURAL FOR NEW COUNTER WITH INTEGRAL LAVATORY AND FAUCET. PLUMBER INSURE INSTALLATION IS COMPLETE AND ADHERES TO ALL LOCAL CODES. INSTALL SINK PER ACTURER'S RECOMMENDATIONS AND INSTALLATION MANUAL.	NOTES: -REGULATORS ARE FUL -REGULATORS TO BE IN (PROVIDE SCREENED				ENTRANCE OF WATER

15. ALL SANITARY AND WASTE PIPING SHALL BE RODDED OUT AFTER INSTALLATION IS COMPLETE, PRIOR TO JOB TURNOVER.

7. SLOPE HORIZONTAL VENT PIPING TOWARDS DRAIN PIPING. 8. ALL HOT AND COLD WATER PIPING SHALL BE INSULATED PER SPECIFICATIONS. 9. PIPING IN EXPOSED CEILING AREAS SHALL BE ROUTED AS HIGH AS POSSIBLE IN

SINGLE COMPARTMENT SINK: ELKAY LRAD1918, 19"x 18"x 6 1/2" DEEP, 18 GAUGE TYPE 302 SELF RIMMING SINI

WITH LKD2445BH FAUCET AND LK99 DRAIN. 18 GAUGE P-TRAP, STOPS AND SUPPLIES. IN-SINK-ERATOR

BADGER 5 MODEL 1/2 H.P., 20 VOLTS AND 1725 RPM. PROVIDE FOOD WASTE DISPOSER WITH DISHWASHER

ELECTRIC WATER COOLER: (ADA) OASIS # P8ACSL, 115/60/1 STANDARD FINISH, SPLIT LEVEL WITH SINGLE

WASTE AND ELECTRICAL CONNECTION. PROVIDE APRON ACCESSORY FOR UPPER UNIT J.R. SMITH #0800

HEEM MODEL NO. 81VP6S WITH 3/4" HOT AND COLD WATER CONNECTIONS. FURNISH 6-GALLON WATER

FLOOR DRAIN: ZURN #ZN-415S-P DURA-COAT CAST IRON BODY WITH 6"x6" SQUARE TYPE "S" POLISHED NICKEL

HEATER - 120V / 1-PHASE, 2000W WITH ASME RATED T&P RELIEF VALVE AND INTEGRAL HEAT TRAPS. SEE

WOODFORD MODLE #RHY2-MS FREEZELESS ROOF HYDRANT WITH MOUNTING SYSTEM, AUTOMATIC

JAY R. SMITH #1340 (-C-R) ROOF DRAIN WITH 3" OUTLET WITH DUCO CAST IRON BODY WITH COMBINED

PLUMBING FIXTURES DESIGNATED AS "ADA" ARE TO BE FULLY ACCESSIBLE IN ACCORDANCE WITH 'THE AMERICAN

REGULATIONS AND/OR CODES, INCLUDING BUT NOT LIMITED TO, WATER AND ENERGY CONSERVATION CODES, THE

EQUIPMENT DO NOT COMPLY WITH GOVERNING CODES, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR

COMPLYING EQUIPMENT, TRIM AND/OR FITTINGS. THE ABSENCE OF AN ALTERNATE BID SHALL BE CONSTRUED TO MEAN THE CONTRACTOR'S BID INCLUDES ALL COSTS NECESSARY TO MEET ALL REGULATIONS AND/OR CODES.

SCHEDULED AND/OR SPECIFIED PLUMBING FIXTURES AND EQUIPMENT REPRESENT THE MINIMUM CRITERIA AND

SHALL BE THE BASIS FOR THE CONTRACTOR'S BASE BID. IF THE SCHEDULED OR SPECIFIED FIXTURES AND/OR

DISABILITIES ACT OF 1990'. FIXTURES AND THEIR INSTALLATION SHALL ALSO COMPLY WITH 'AMERICAN NATIONAL STANDARDS INSTITUTE' (ANSI) PUBLICATION A117.1-"PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY

ALL PLUMBING FIXTURES, EQUIPMENT, TRIM AND FITTINGS SHALL COMPLY WITH LOCAL, STATE AND FEDERAL

LASHING CLAMP AND GRAVEL STOP WITH POLYETHYLENE DOME. CONTRACTOR SHALL CUT AWAY ROOF

JAY R. SMITH #1080 (-C-R) OVERFLOW ROOF DRAIN (REFER TO P2 FOR OUTLET SIZE), DUCO CAST IRON BODY

MITH ADJUSTABLE EXTENSION SLEEVE, POLYPROPYLENE LOCKING DOME, INTERNAL GRAVEL STOP, BOTTOM

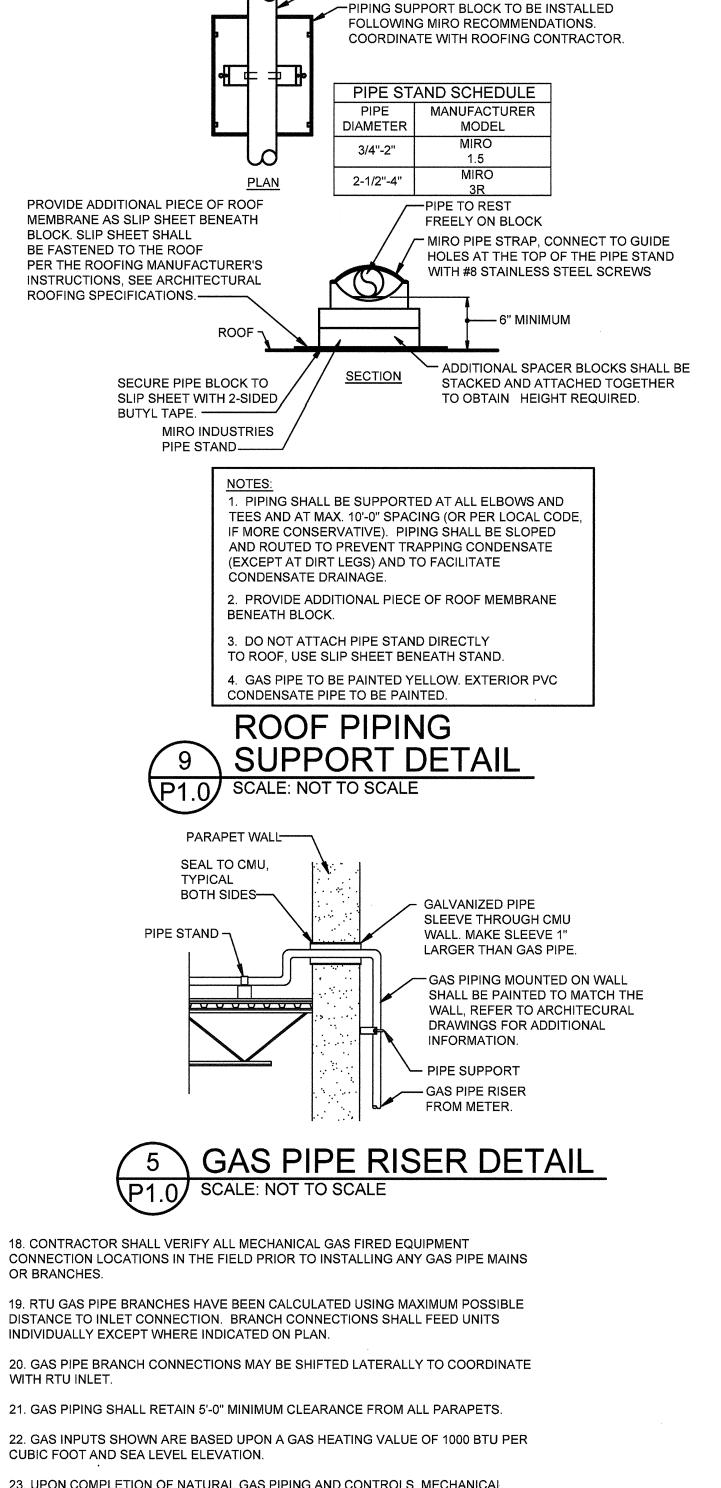
OUTLET, DECK CLAMP ASSEMBLY AND DRAIN RECEIVER, 3" EXTERNAL WATER DAM. CONTRACTOR SHALL CUT

DRAINING, HOSE CONNECTION BACK FLOW PROTECTED WITH 3/4" MALE HOSE THREAD INLET

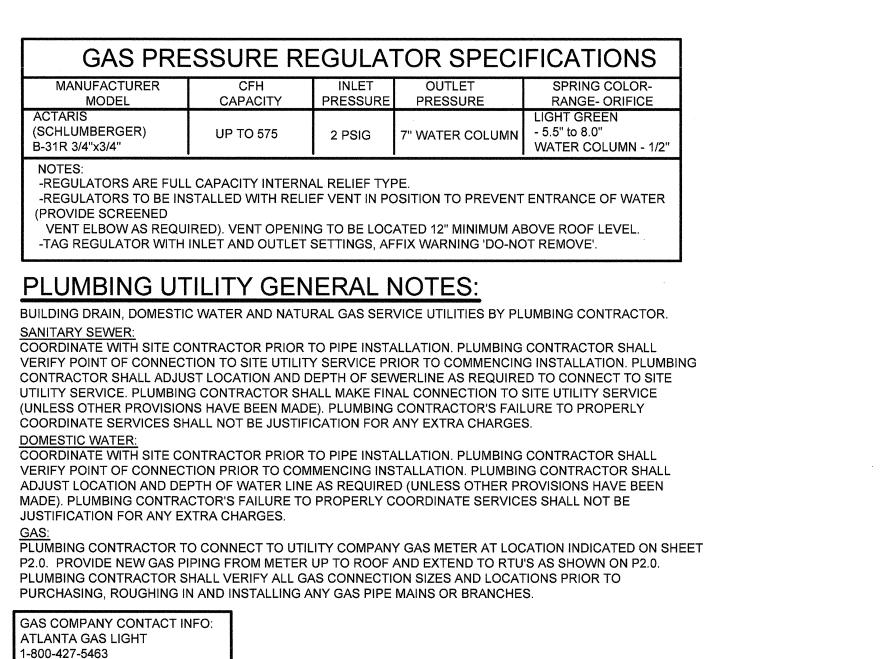
DETAIL ON THIS SHEET FOR MOUNTING ON PLATFORM AND EXPANSION TANK, ETC.

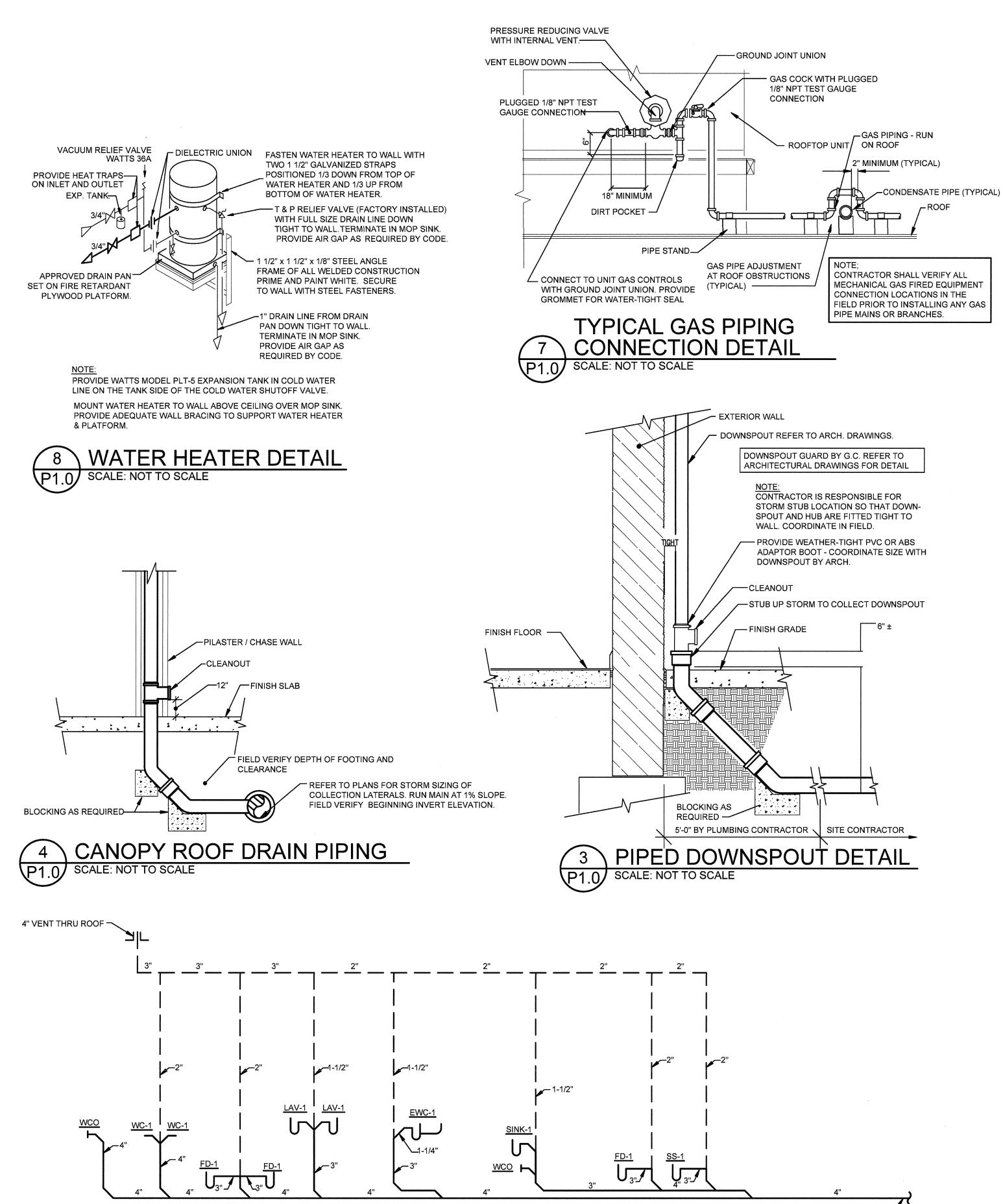
HOSE BIBB / WALL HYDRANT: WOODFORD # 65 ANTI-CONTAMINATION NON-FREEZE.

SIPHON JE #255SSC V TYPE. LAVATORY SHALL ENS **MANUFAC** -TAG REGULATOR WITH INLET AND OUTLET SETTINGS, AFFIX WARNING 'DO-NOT REMOVE'. PLUMBING UTILITY GENERAL NOTES SERVICE SINK: FIAT MSB 2424 MOLDED STONE 10" DEEP. FAUCET: AMERICAN STANDARD # 8351.076. PROVID CAST IRON P-TRAP & REMOVABLE CHROME PLATED BRASS STRAINER PLATE, 30" HOSE AND HOSE CLAMP.



PIPE SIZE SEE PLANS





2 WASTE & VENT PIPING DIAGRAM

— 3/4"(3.25 F.U.)

3/4"(2.25 F.U.) --- 3/4"(2.25 F.U.)

WATER PIPING DIAGRAM

2"(27.9 F.U.)

TRAP PRIMER

THIS SHEET).

─ (SEE DETAIL

1/2"(1 F.U.) —►

P1.0 SCALE: NOT TO SCALE

1-1/2"(23 F.U.)—**-**

─-3/4"(3 F.U.)

1-1/2"(20 F.U.)

(TYPICAL)

3/4"(3 F.U.)

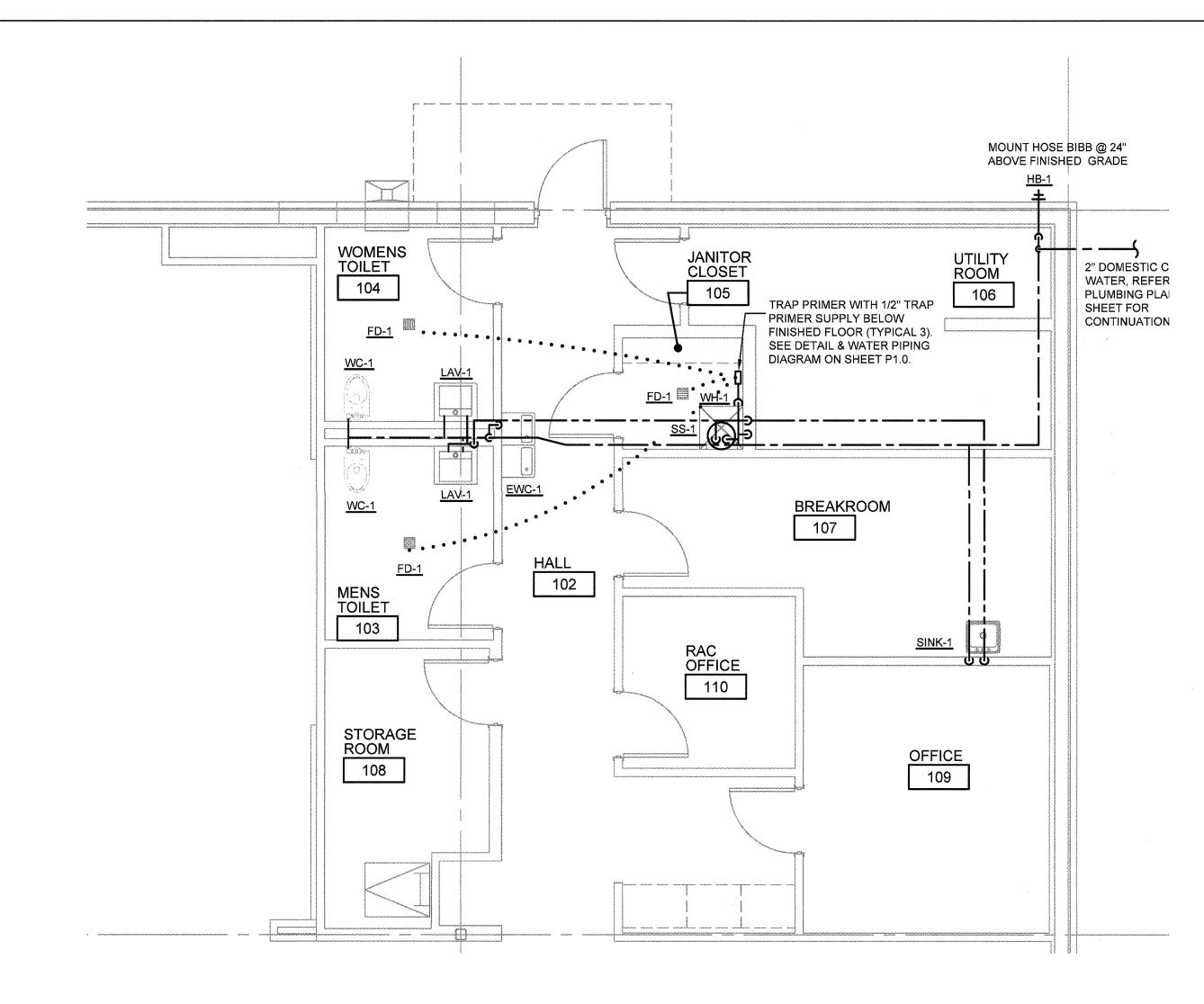
1-1/2"(23 F.U.)

-1/2"(0.5 F.U.)

MICHAEL C. GRAPPERHAUS License NO. PE040194 Expiration Date 12/31/18

Drawn By/Checked By: CLQ/MCG Project Number 12-11-18 Bid Date Permit/Owner Date 09-27-18

> **PLUMBING PLAN**



3 ENLARGED WASTE PLAN
P1.0 SCALE: 1/4" = 1'-0"

4" SANITARY, REFER TO PLUMBING PLAN

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CIVIL ENGINEERING DESIGN COORDINATION NOTICE

NOTICE TO ALL PARTIES HAVING AN INTEREST IN THIS CONSTRUCTION PROJECT:

1.) CIVIL ENGINEERING FOR THIS PROJECT IS BEING PERFORMED BY OTHERS.

ONLY AS SHOWN BELOW.

CIVIL SHT. CIVIL SHEET DWG. NO. DWG. TITLE

C-3.0 UTILITY PLAN

CIVIL ENGINEERING CONSULTANT IS:

DISCIPLINE: PLUMBING

2.) CONTRACTORS RELYING ON DOCUMENTS NOT COORDINATED WITH THE CIVIL ENGINEERING WORK SHALL DO SO AT THEIR OWN RISK.

3.) COORDINATION WITH THE CIVIL ENGINEERING DOCUMENTS HAS BEEN COMPLETED

CIVIL ENGINEERING CONSULTANT IS

CIVIL ENGINEERING CONSULTANT IS:

REV. DATE

9/26/18

COORDINATION CHECKED BY INITIAL DATE INITIAL DATE INITIAL CLQ 9/27/18

REV. REV. NO.

REV. DATE

TOILET 104

MENS TOILET 103

STORAGE ROOM 108

ON THIS SHEET FOR CONTINUATION.

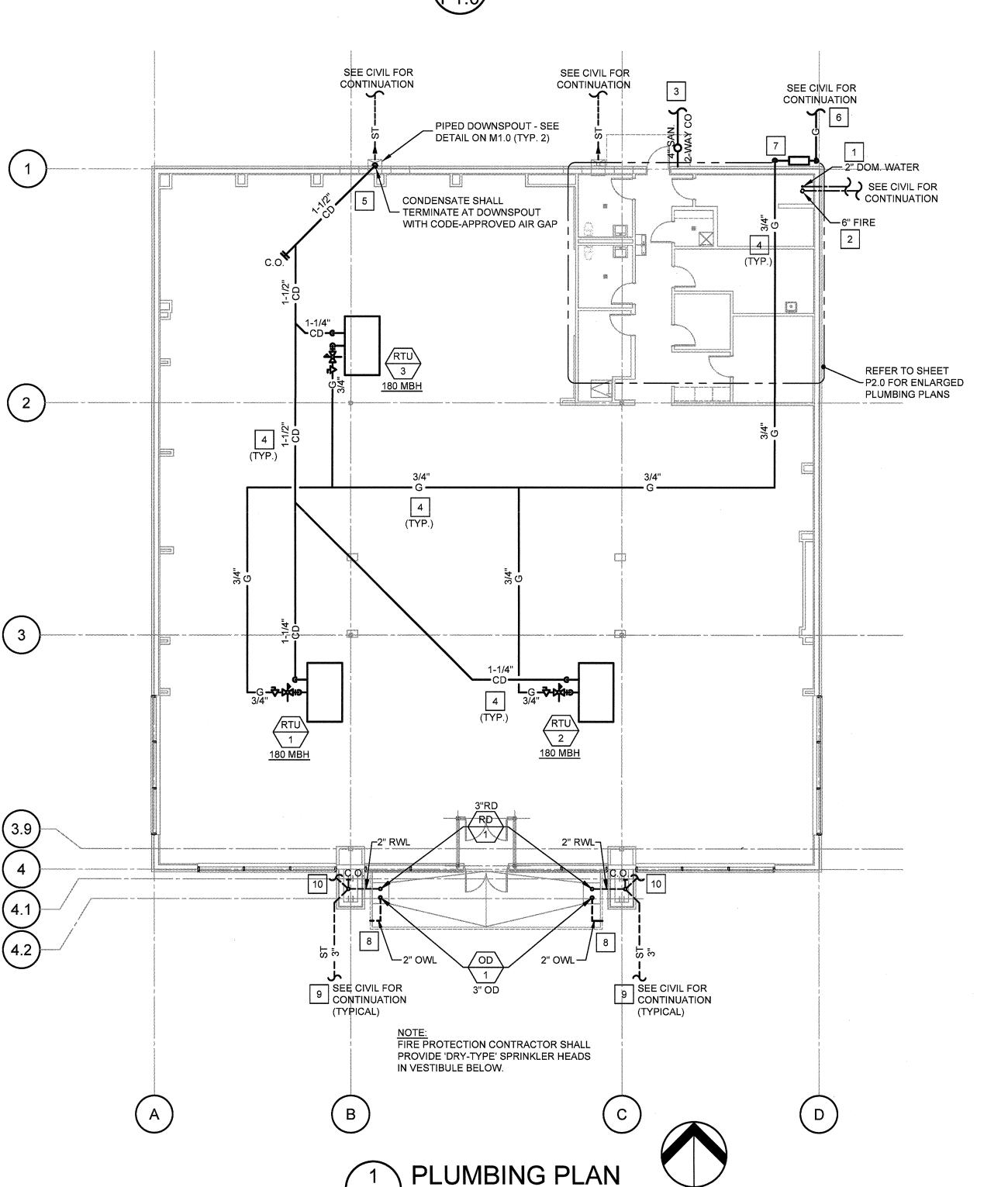
RAC OFFICE 110

UTILITY ROOM 106

107

OFFICE 109

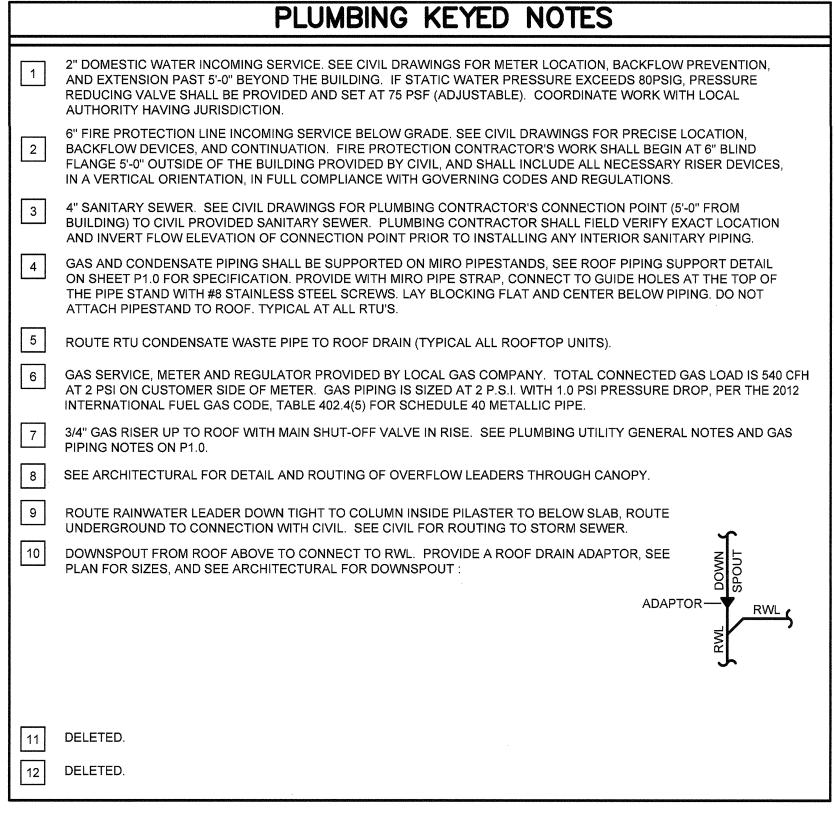




P2.0 | SCALE: 3/32" = 1'-0"

PLAN

NORTH



ALL WORK SHALL COMPLY WITH DRAWINGS AND SPECIFICATIONS. THIS IS A PROTOTYPICAL DESIGN. ANY FIELD CHANGES REQUIRE OWNER OR ARCHITECT APPROVAL.

ALL CONDENSATE PIPING SHALL BE PAINTED WHITE. USE LONG RADIUS SWEEPS ON CONDENSATE PIPES. ALL GAS PIPING SHALL BE PAINTED YELLOW.

				ND ABBREVIATION
AFF		NISHED FLOOR	PBC	PLUMBING CONTRACTOR
BFF		NISHED FLOOR	PPM	PARTS PER MILLION
BŤUH CD	CONDENS	HERMAL UNITS	PSI PSIG	POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUG
CFH		ET PER HOUR	RD	ROOF DRAIN
CFM		ET PER MINUTE	RF	ROOF FAUCET
C.O.	CLEAN OL		RPM	REVOLUTIONS PER MINUTE
CW DB	COLD WA ⁻ DRY BULB		RTU R/A	ROOF TOP UNIT RETURN AIR
DCV		CONTROL VENTILATION	RWL	RAINWATER LEADER
DIA.;Ø	DIAMETER		S/A	SUPPLY AIR
DOM. ELC	DOMESTIC	CAL CONTRACTOR	SAN SF	SANITARY SQUARE FEET
EWC		WATER COOLER	SMACNA	SHEET METAL AND AIR CONDITION
FD	FLOOR DF	RAIN		CONTRACTOR'S NATIONAL ASSOC.
FCO	FLOOR CL		TP	TRAP PRIMER
FP GFCI	FIRE PRO	FAULT CURRENT INTERRUPTER	TYP UR	TYPICAL URINAL
GPH		PER HOUR	VTR	VENT THRU ROOF
GPM		PER MINUTE	WB	WET BULB
HAC HACR		AND AIR CONDITIONING CONTRACTOR AIR CONDITIONING AND REFRIGERATION	WC WCO	WATER CLOSET
HB	HOSE BIBI		I WH	WALL CLEANOUT WALL HYDRANT
HP	HORSEPO	WER	YCO	YARD CLEANOUT
HVAC	-	VENTILATING & AIR CONDITIONING	°F	DEGREES FAHRENHEIT
HW HWH	HOT WATE	:R ER HEATER	Ø	DIAMETER
LAV	LAVATOR			FIXTURE OR EQUIPMENT
MAX.	MAXIMUM			MARK (DESIGNATION FOR SPEC.
MBH MCA		SH THERMAL UNITS PER HOUR CIRCUIT AMPERES		OR MARK FOR SCHEDULE ON DRAV
MIN.	MINIMUM	CINCOTT AIMFERES	(S1) 18x14 AI	R DEVICE TAG (S=SUPPLY, R=RETUR
MOCP		OVERCURRENT CIRCUIT PROTECTION	1250 E=	=EXHAUST), NEČK SIZE & ČFM
NTS OD	NOT TO SO OVERFLO			
		,		
		GATE VALVE OR SHUT-OFF VALVE	AND THE PROPERTY OF THE PROPER	- COLD WATER PIPING
		CHECK VALVE	• • • • • • • • • • • • • • • • • • • •	OOLD WATER TO FLOOR BRAIN
		GLOBE VALVE		HOT WATER PIPINGPRIMARY RAINWATER LEADER
	─ ——	PRESSURE REDUCING/REGULATING VALVE (PRV)	ORL	
	Ţ	GAS COCK		 SOIL/SEWER/WASTE PIPING
	▼ — —	FLOOR DRAIN WITH P-TRAP		- VENT PIPING
		FLOOR CLEANOUT (FCO)	CD	- CONDENSATE PIPING ABOVE R
			cd	 CONDENSATE PIPING UNDER R
		WALL CLEANOUT (WCO)	G	GAS PIPING ABOVE ROOF
	***************************************	WALL HYDRANT/HOSE BIBB	ST	BELOW GRADE STORM PIPING
		UNION	\bigwedge_{R}	REVISIONS
		PIPE RISE		VOLUME DAMPER
		PIPE DROP		HVAC KEYED NOTE
	\otimes	SPRINKLER RISER	1	PLUMBING KEYED NOTE
	/ 3			
	M	METER	SD	DUCT SMOKE DETECTOR