



CCR ARCHITECTURE & INTERIORS

**MARTIN LUTHER KING JR. RECREATION CENTER**  
 705 14TH COURT EAST  
 PANAMA CITY, FL 32401

JOB NUMBER:  
21109

DATE:  
05/18/23

PRINTED / REVISIONS  
# DESCRIPTION DATE

SHEET TITLE:  
LEGENDS, NOTES, AND  
ABBREVIATIONS -  
PLUMBING

SHEET NUMBER:  
**P001**

**PLUMBING LEGEND SYMBOLS AND ABBREVIATIONS**

	DOMESTIC COLD WATER		BALL VALVE	ABV	ABOVE
	EXISTING DOMESTIC COLD WATER TO BE REMOVED		VALVE IN VERTICAL	AFF	ABOVE FINISHED FLOOR
	EXISTING DOMESTIC COLD WATER TO REMAIN		CAP ON END OF PIPE	INV	INVERT
	DOMESTIC HOT WATER		CLEANOUT - FLOOR TYPE	BFF	BELOW FINISHED FLOOR
	EXISTING DOMESTIC HOT WATER TO BE REMOVED		CLEANOUT - WALL TYPE	CW	COLD WATER
	EXISTING DOMESTIC HOT WATER TO REMAIN		P-TRAP	DN	DOWN
	DOMESTIC HOT WATER RETURN		PIPE TURNING DOWN	EX	EXISTING
	EXISTING DOMESTIC HOT WATER RETURN TO BE REMOVED		PIPE TURNING UP	HW	HOT WATER
	EXISTING DOMESTIC HOT WATER RETURN TO REMAIN		TEE DOWN	WS	WASTE STACK
	SANITARY VENT		TEE UP	VS	VENT STACK
	EXISTING SANITARY VENT TO BE REMOVED		TIE NEW INTO EXISTING	AC	ABOVE CEILING
	EXISTING SANITARY VENT TO REMAIN		PLUMBING FIXTURE NUMBER	WHA	WATER HAMMER ARRESTOR
	STORM DRAINAGE		RISER NUMBER	BFG	BELOW FINISHED GRADE
	EXISTING STORM DRAINAGE TO BE REMOVED		WATER HAMMER ARRESTOR	TMV	THERMOSTATIC MIXING VALVE
	EXISTING STORM DRAINAGE TO REMAIN		PLUG TYPE CLEANOUT	TP	TRAP PRIMER
	SANITARY WASTE		BALANCING VALVE		
	EXISTING SANITARY WASTE TO BE REMOVED		CHECK VALVE		
	EXISTING SANITARY WASTE TO REMAIN		GATE VALVE		
	SHEET MATCH LINE		REDUCED PRESSURE ZONE BFP		
	CONSTRUCTION DUST PARTITION		THERMOSTATIC MIXING VALVE		
	2 PSI GAS LINE		FLOOR SINK		
	EXISTING 2 PSI		FLOOR DRAIN		
	ROOF DRAIN/OVERFLOW DRAIN		ROOF DRAIN/OVERFLOW DRAIN		

**PLUMBING SPECIFICATION - GENERAL**

SECTION 220001 - PLUMBING GENERAL

PART 1-GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Section, Apply to this Section.

1.2 SUMMARY

- A. Work Included:
  - 1. Submittals
  - 2. Electrical Requirements
  - 3. Excavation & Backfilling
  - 4. Painting
  - 5. Cleaning
  - 6. Testing

1.3 SUBMITTALS

A. The Contractor shall submit for review by the Architect data of materials and equipment to be incorporated in the work. Submittals shall be supported by descriptive material, catalogs, cuts, diagrams, performance curves, and charts published by the manufacturer to show conformance to specification and drawing requirements; model numbers alone will not be acceptable.

B. Refer to the individual sections for identified equipment and materials for which submittals are required. C. Refer to the SHOP DRAWINGS, PRODUCT DATA AND SAMPLES Section for required procedures. Submittals shall be required for:

- 1. Plumbing
- 2. Pipe Certification - Pipe fittings, solders used
- 3. Plumbing Fixtures - The contractor shall verify the plumbing fixture requirement for type of fixtures, valves and trim with the engineer prior to rough in work and prior to ordering the plumbing fixtures.
- 4. Valves, Backflow preventors, Grease Traps, Floor Sinks

Plumbing Equipment Electrical Data  
 1. Prior to submitting data for equipment requiring electrical service, the Contractor shall verify that electrical characteristics of equipment submittals comply with electrical service provided for the specified items of equipment.

2. Upon receipt of the Contractor of reviewed submittals for equipment provided under this Division, the Contractor shall coordinate the electrical service requirements, i.e., motor horsepower and full load amps, electrical service characteristics (voltage and phase), and number of services for each item of equipment requiring electrical connections with the electrical drawings and specifications. The Contractor shall furnish to the Architect a complete typewritten list of electrical requirements for each item of equipment to be installed.

F. Items on or projecting through the ceiling shall be coordinated with other items and shall be shown on the reflected ceiling plan shop drawings submitted for the Architect's review. Such items shall follow the reflected ceiling plan shop drawings and shall not be install until reviewed by the Architect with no exceptions taken.

1.4 QUALITY ASSURANCE

A. The mechanical equipment and installation shall conform to the applicable codes.

B. Permits  
 1. Obtain all permits and inspections for the installation of this work and pay all charges incident thereto. Deliver to the Owner all certificates of said inspection issued by authorities having jurisdiction.

C. Workmanship and Materials  
 1. The workmanship and materials covered by these specifications shall conform to all ordinances and regulations of the City, county and/or other authorities having jurisdiction.

1.5 OPERATION AND MAINTENANCE INSTRUCTIONS

A. Refer to Division 1 for Detail Requirements.  
 B. Printed Materials: Provide required printed material for binding in operation and maintenance manuals.  
 C. Instructions of Owner personnel:

- 1. Before final inspection, at a time designated by the Architect, provide a representative with knowledge of the building systems to instruct Owner's designated personnel in operation, adjustment, and maintenance of products, equipment, and systems under this division of the specifications. For equipment requiring seasonal operation, perform instructions for other seasons within six months unless requested otherwise.
- 2. Use operation and maintenance manuals as basis of instruction. Review contents of manual with personnel in detail to explain all aspects of operation and maintenance.
- 3. Prepare and insert additional data in Operation and Maintenance Manual when need for such data becomes apparent during instruction.

1.6 RECORD DOCUMENTS

A. Refer to Division 1 for record documents and related submittals.

1.7 CONTRACT DRAWINGS

A. Drawings are diagrammatic and indicate general arrangement of systems and work.  
 B. Follow drawings in laying out work and check drawings of other disciplines relating to work to verify space conditions. Do not scale drawings.

C. Equipment layout is based on one manufacturer's product. Where equipment selected by the Contractor for use on the job differs from layout, the Contractor shall be responsible for coordinating space requirements and connection arrangements.

1.8 GUARANTY

A. The components of the plumbing systems furnished under this division of the specifications shall be guaranteed for a period of one year from the date of acceptance thereof, either for beneficial use or final acceptance whichever is earlier, against defective materials, design, and workmanship. Upon receipt of notice from the Architect of failure of any part of the equipment during the guaranty period, the affected part or parts shall be replaced promptly which includes removing the defective part or parts, replacing and installing the new part or parts, at the expense of the Contractor.

PART 2 PRODUCTS

2.1 ELECTRICAL WORK

A. All electrical equipment furnished under this Division of these Specifications shall comply with the electrical system characteristics indicated on the electrical and mechanical drawings.

B. Power wiring (i.e., feeders to motors, water heaters, and electric heaters and tapes including final connection to equipment) shall be provided under Division 25 - ELECTRICAL.

3.1 PAINTING

A. Factory painted equipment that has been scratched or marred shall be repainted to match Original color.

B. Steel equipment hangers and supports and uninsulated black steel pipe exposed to sight inside the building which are not provided with a factory applied prime coat shall be cleaned of rust, grease and scale. After cleaning hangers, supports and pipe, a field-applied prime coat shall be provided. In addition, such items in finished spaces shall also be provided with two coats of finish paint in a color to match adjacent surface.

C. Steel equipment hangers and supports, uninsulated black steel pipe, and black steel pipe support exposed to sight outside the building which are not provided with factory prime coat shall be cleaned of rust, grease and scale. After cleaning hangers, supports and pipe, a field-applied prime coat and two coats of bituminous aluminum paint shall be provided. Insulated pipes outside the building shall be cleaned of rust, grease and scale, and shall be provided with a field-applied prime coat before installing insulation.

D. All painting shall conform to the requirements of the PAINTING Section.

3.2 CLEANING AND ADJUSTING

A. All equipment, pipe, valves and fittings shall be cleaned of grease, oil, and paint spots, metal cuttings, sludge, and construction debris.

B. Ducts, plenums and casings shall be cleaned of all debris and blown free of all particles.  
 1. Of rubbish and dust before installing outlet faces.  
 C. Bearings shall be lubricated as recommended by the equipment manufacturer.

D. Temporary filters shall be provided for fans that are used during construction. At the time of starting the balancing of the air distribution system, new filters shall be installed.

3.3 TESTING PIPE SYSTEM

A. General: Concealed piping and insulated piping shall be tested in place before concealing or covering. Piping located underground shall be tested before backfilling. Equipment, materials, and instruments for testing shall be furnished by the Contractor without additional cost to the Owner. System components not rated for the respective test pressure shall be isolated from the system during the test.

B. Observation: The Contractor shall notify the owner's representative two days prior to a scheduled test. The owner's representative, at this option, has the right to witness the test.

C. Sanitary, Waste, and Vent System  
 1. The hydrostatic test shall be performed before installing fixtures. Water tests shall be applied to each system (s) either in its entirety or in sections. If the test is applied to the entire system, all openings in the piping shall be closed except the highest opening, and the system shall be filled with water and tested with at least a 10 ft. head of water. In testing successive sections, at least the upper 10 ft. of the next preceding section shall be tested so that each joint or pipe in the building except the uppermost 10 ft. of the system has been submitted to a test of at least a 10 ft. head of water. The water shall be kept in the system, or in the portion under test for at least 2 hours before inspection starts. The system shall be tight at all joints.

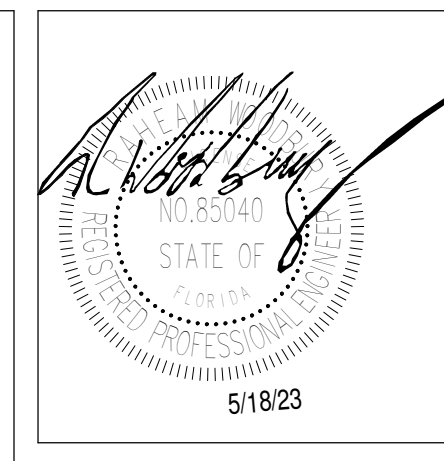
END OF SECTION

**PLUMBING GENERAL NOTES:**

1. ALL HORIZONTAL PRESSURE PIPING SHALL BE RUN ABOVE CEILING ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE NOTED.
2. ALL HORIZONTAL GRAVITY PIPING SHALL BE RUN BELOW FLOOR ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. ALL HORIZONTAL VENT PIPING SHALL BE RUN ABOVE FLOOR ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED.
3. COORDINATE ROUTING OF PIPING TO AVOID CONFLICTS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL WITHIN THE BUILDING PRIOR TO INSTALLATION.
4. COORDINATE LOCATION OF VENT STACKS PENETRATING ROOF (VTRS) WITH MECHANICAL, TO AVOID CONFLICTS WITH OUTSIDE AIR INTAKES.

**DRAWING GENERAL NOTES:**

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO BEGINNING WORK.
2. CAREFUL COORDINATION WITH LIGHTING, ELECTRICAL, MECHANICAL, STRUCTURAL AND ARCHITECTURAL WORK IS CRITICAL FOR COMPLETE PIPING INSTALLATION. CONTRACTOR SHALL PROVIDE NECESSARY OFFSETS IN NEW AND EXISTING PIPING AND ELECTRICAL CONDUIT AS REQUIRED TO ACCOMMODATE NEW WORK. CONTRACTOR SHALL ALLOW FOR ANY CONFLICTS ENCOUNTERED.
3. PIPING LAYOUTS ARE DIAGRAMMATIC AND DO NOT SHOW ALL ELEMENTS OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES ON DIRECTION, ELEVATION AND MINOR OFFSETS NECESSARY FOR COMPLETE INSTALLATION OF ELEMENTS SHOWN.
4. ALL WASTE PIPING SHOWN IS BELOW THE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL VENT PIPING SHOWN IS ABOVE THE CEILING UNLESS OTHERWISE NOTED.
5. REFER TO ARCHITECTURAL FLOOR PLANS FOR ALL DIMENSIONS.



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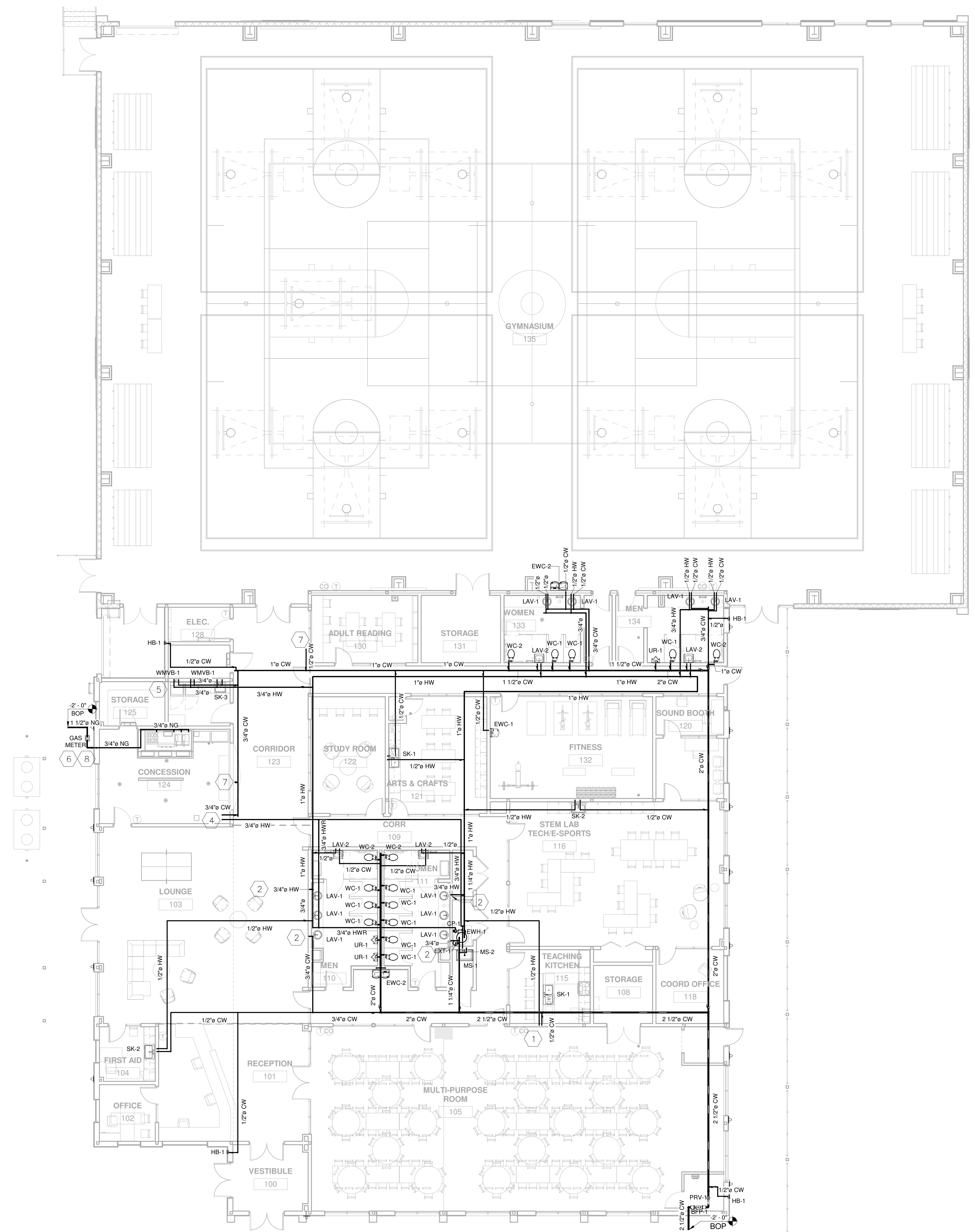
DATE:  
05/18/23

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# DESCRIPTION DATE

SHEET TITLE:  
FIRST FLOOR PLAN - PLUMBING

SHEET NUMBER:  
**P101**

C:\Users\p21\OneDrive\Documents\Projects\AL-100\_Markup\05-18-23\051823.dwg (sheet: 05/18/23) (sheet: 05/18/23)  
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**GENERAL NOTES:**

1. 1"Ø DOMESTIC COLD WATER LINE TO EACH WATER CLOSET.
2. 3/4"Ø DOMESTIC COLD WATER LINE TO EACH URINAL.
3. SHUT-OFF VALVES TO BE INCLUDED ON ALL DOMESTIC WATER AND GAS LINE BRANCHES FROM MAIN LINE.

**KEY NOTES:**

- 1 1/2"Ø COLD AND HOT WATER LINES TO ROUTE DOWN WALL AND UNDER COUNTER TO SINK.
- 2 3/4"Ø COLD AND HOT WATER LINES TO ROUTE DOWN WALL AND CONNECT TO LAVATORIES.
- 3 SEE CIVIL FOR CONTINUATION.
- 4 3/4"Ø COLD AND HOT WATER LINES TO ROUTE INTO CONCESSION AREA AND CONNECT TO SINKS AND REQUIRED EQUIPMENT. SEE KITCHEN CONSULTANT FOR CONTINUATION.
- 5 1/2"Ø COLD AND HOT WATER LINES TO ROUTE DOWN WALL AND CONNECT TO WASHING MACHINE VALVE BOX.
- 6 GAS METER BY OTHERS:  
2# SYSTEM  
TOTAL CFH: 2263  
LONGEST LENGTH: 260'
- 7 1/2"Ø COLD WATER LINE TO ROUTE UP AND CONNECT TO HOSE BIBB ON SIDE WALL OF ROOF.
- 8 GAS LINE TO ROUTE UP EXTERIOR OF BUILDING AND SPLIT INTO TWO LINES. ONE LINE TO ROUTE INTO THE BUILDING ABOVE THE CEILING AND CONNECT TO THE KITCHEN EQUIPMENT. THE SECOND LINE TO CONTINUE TO THE ROOF AND CONNECT TO THE ROOFTOP EQUIPMENT.

**FIRST FLOOR PLAN - PLUMBING**  
1/8" = 1'-0"



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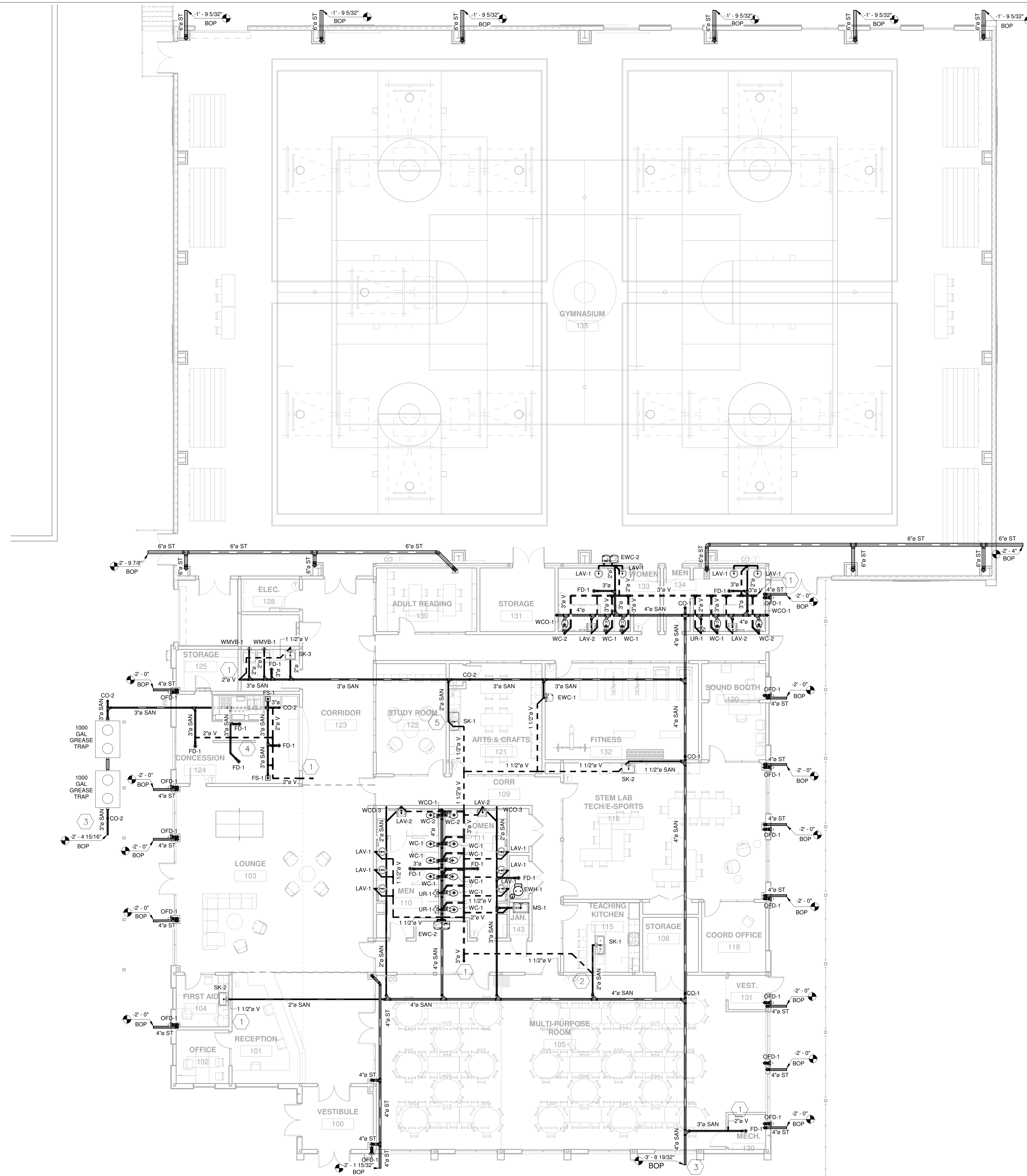
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21109

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# DESCRIPTION DATE

SHEET TITLE:  
FIRST FLOOR PLAN - SANITARY

SHEET NUMBER:  
P102



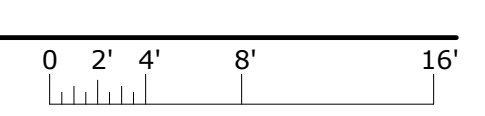
### GENERAL NOTES:

1. PLUMBING CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS BEFORE WORK AND COORDINATE WITH OTHER DISCIPLINES.
2. COORDINATE ROOF DRAINS AND STORM LINES WITH ARCHITECTURAL AND CIVIL.

### KEY NOTES:

- 1 VENT LINE TO ROOF.
- 2 VENT LINE TO ROUTE UNDER COUNTER AND UP IN WALL.
- 3 CONTINUE TO CIVIL.
- 4 VENT LINE TO ROUTE UNDER FLOOR.
- 5 SOLIDS INTERCEPTOR TO BE INSTALLED UNDERCOUNTER TO SINK IN LIEU OF P-TRAP. FOR ABOVE THE FLOOR INSTALLATION.

1 FIRST FLOOR PLAN - SANITARY  
P102 1/8" = 1'-0"



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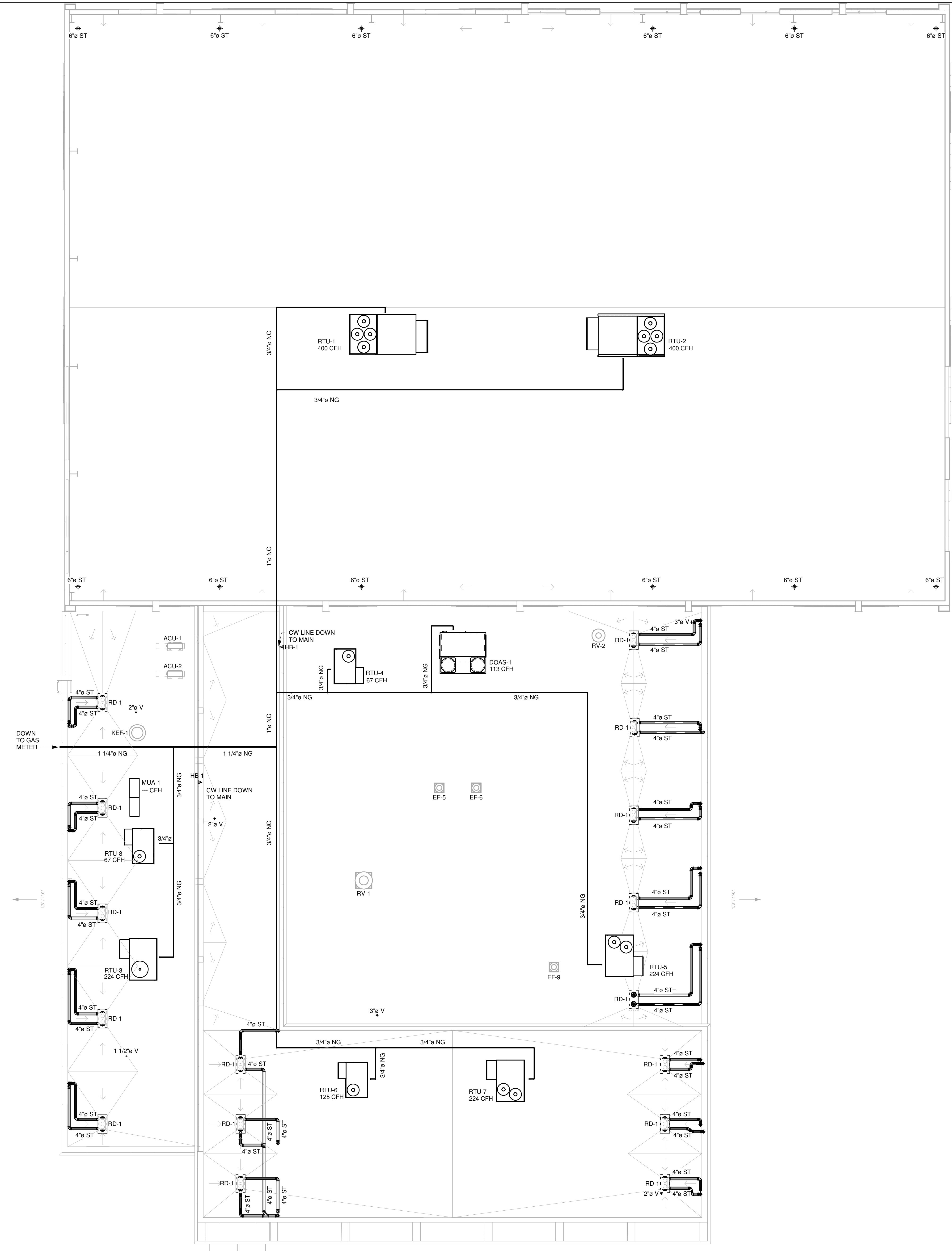
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SHEET TITLE:  
**ROOF - PLUMBING**

SHEET NUMBER:  
**P201**

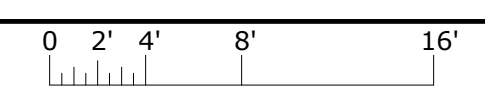
**GENERAL NOTES:**

- VENT LINES TO BE A MINIMUM OF 24" ABOVE ROOF FLOOR. ADJUST AS NEEDED. AND MINIMUM OF 10' FROM FRESH AIR INTAKE.
- SHUT-OFF VALVES TO BE INCLUDED ON ALL GAS LINE BRANCHES FROM MAIN LINE.
- COORDINATE ROOF DRAINS AND STORM LINES WITH ARCHITECTURAL AND CIVIL.



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**1 ROOF - PLUMBING**  
 P201 1/8" = 1'-0"





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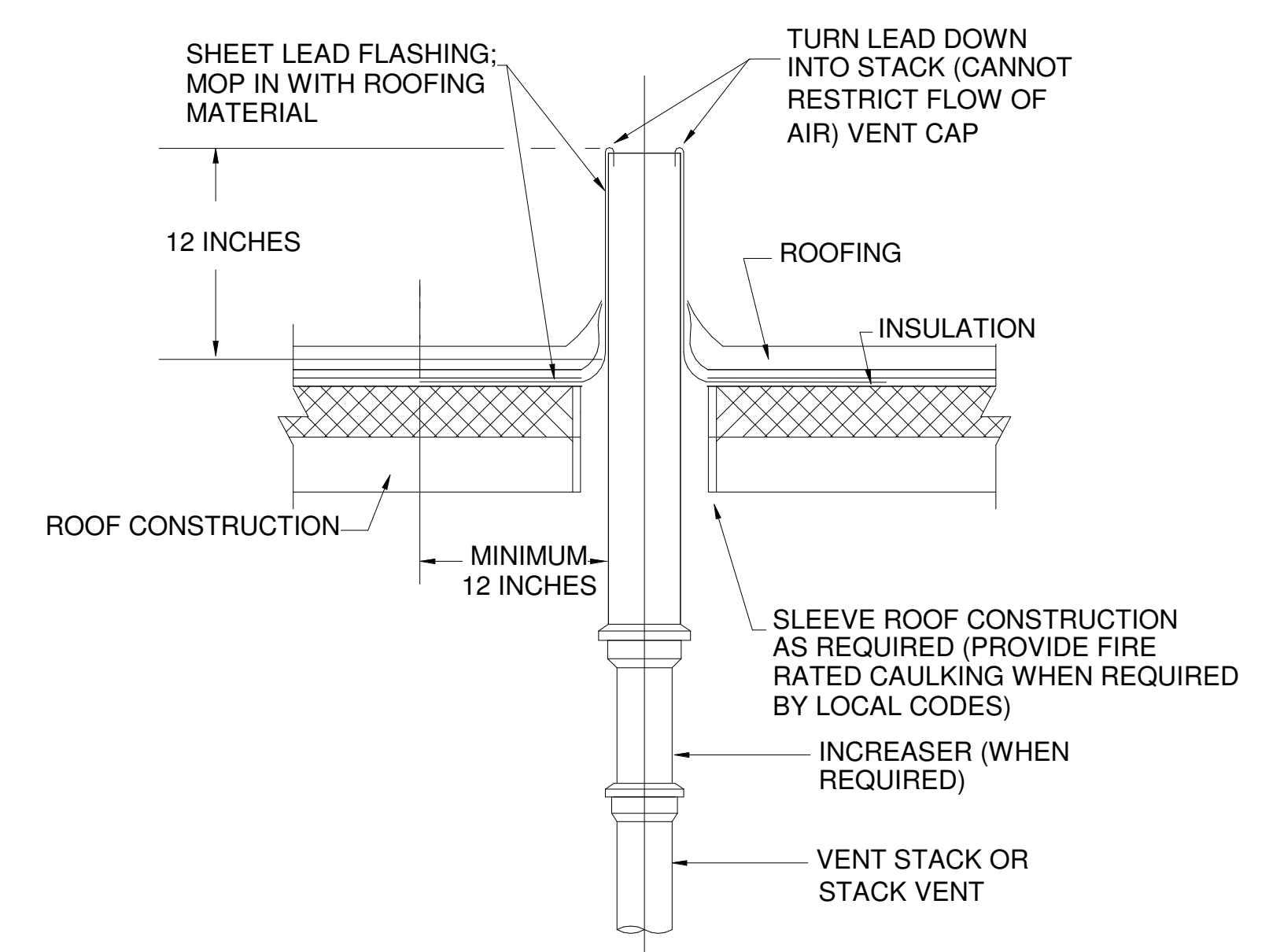
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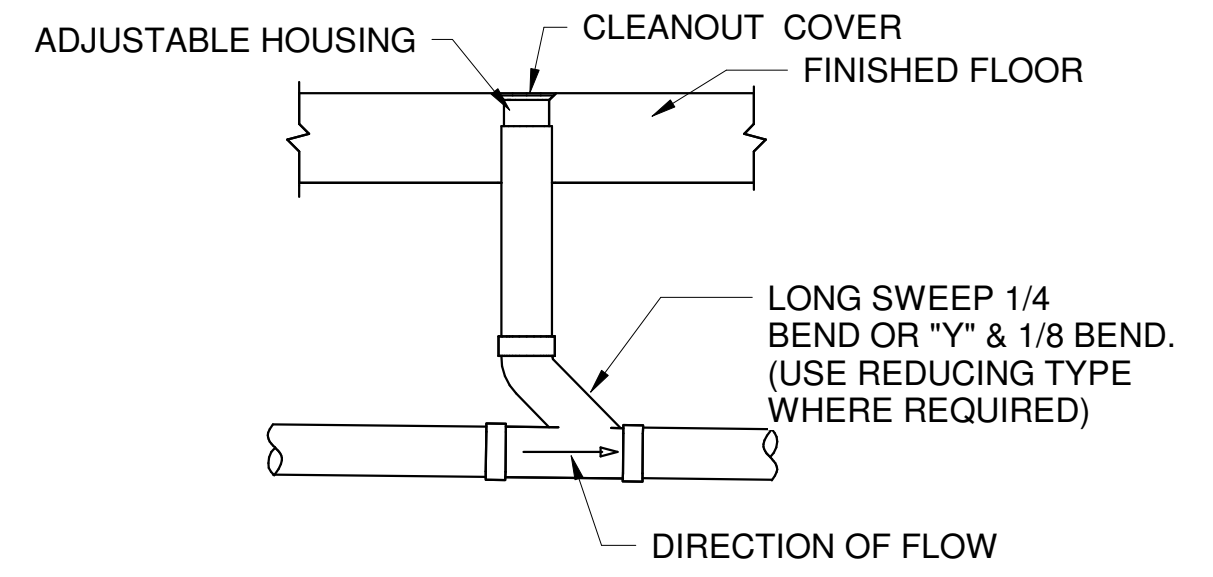
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SHEET TITLE:  
DETAILS - PLUMBING

SHEET NUMBER:  
**P401**

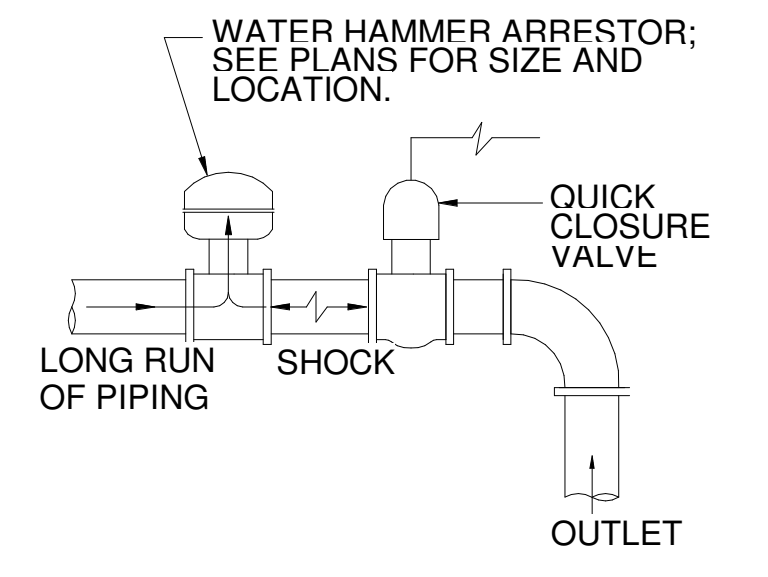


**7 VENT THROUGH ROOF DETAIL**  
 P401 NTS



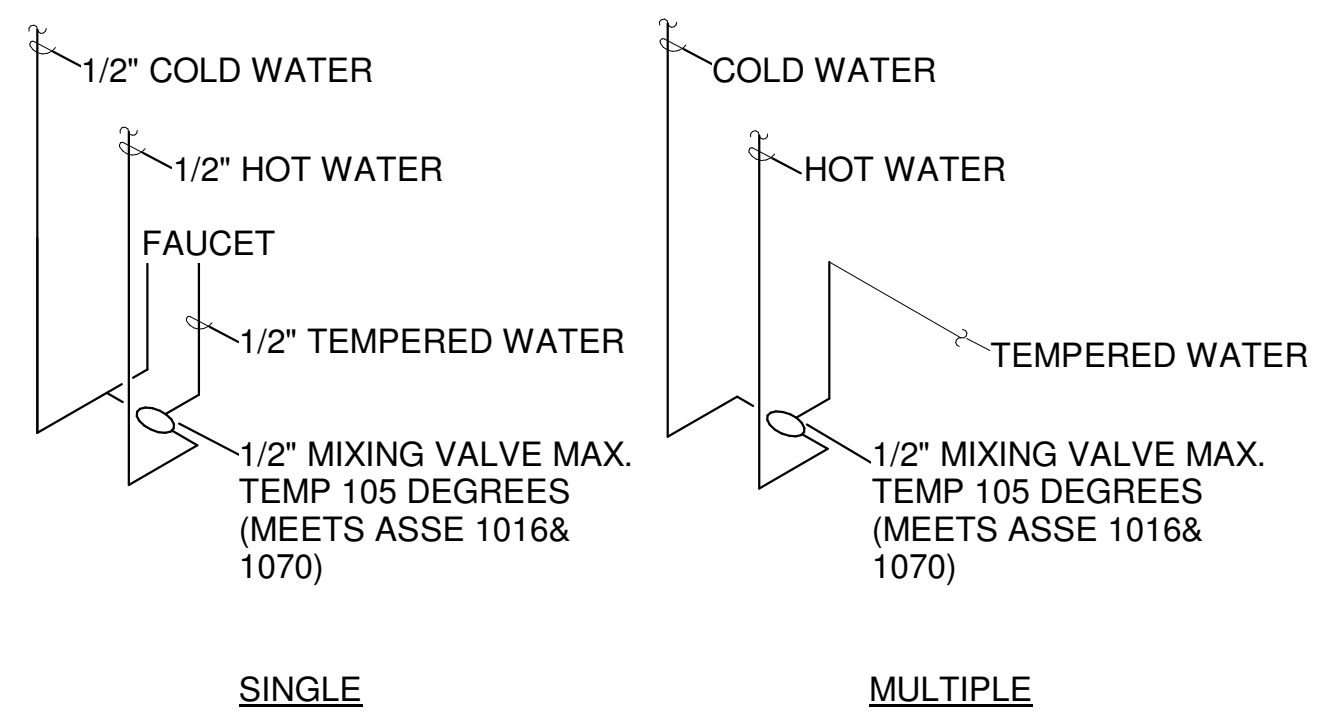
**4 TYPICAL FLOOR CLEANOUT DETAIL**  
 P401 NTS

WATER HAMMER ARRESTOR SCHEDULE						
MARK	A	B	C	D	E	F
MAXIMUM FIXTURE UNITS	11	32	60	133	154	330
MAXIMUM PRESSURE RATING	65 PSI					

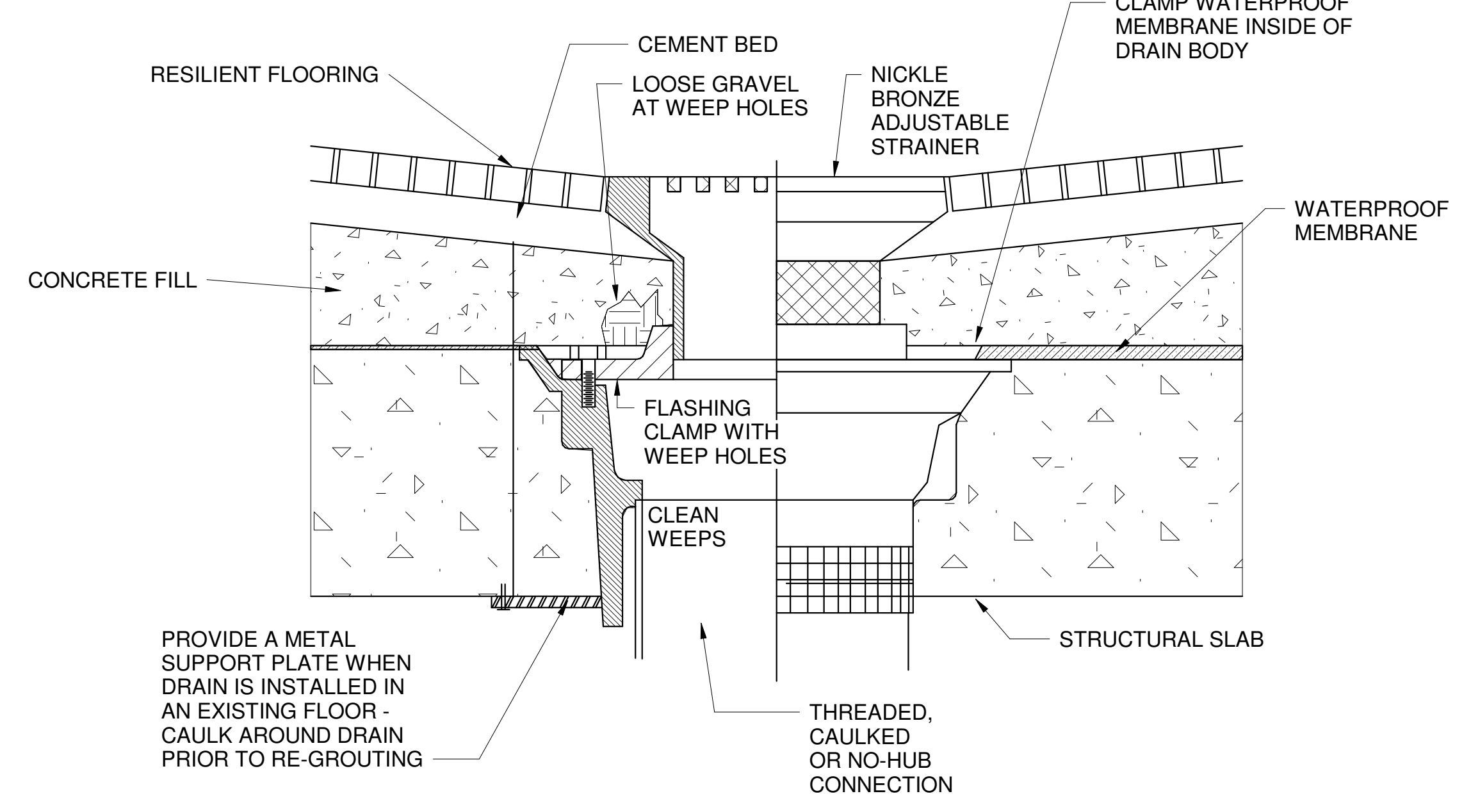


- NOTES:**
1. WATER HAMMER ARRESTOR SIZED ACCORDING TO PLUMBING AND DRAINAGE INSTITUTE (PDI) RATING.
  2. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

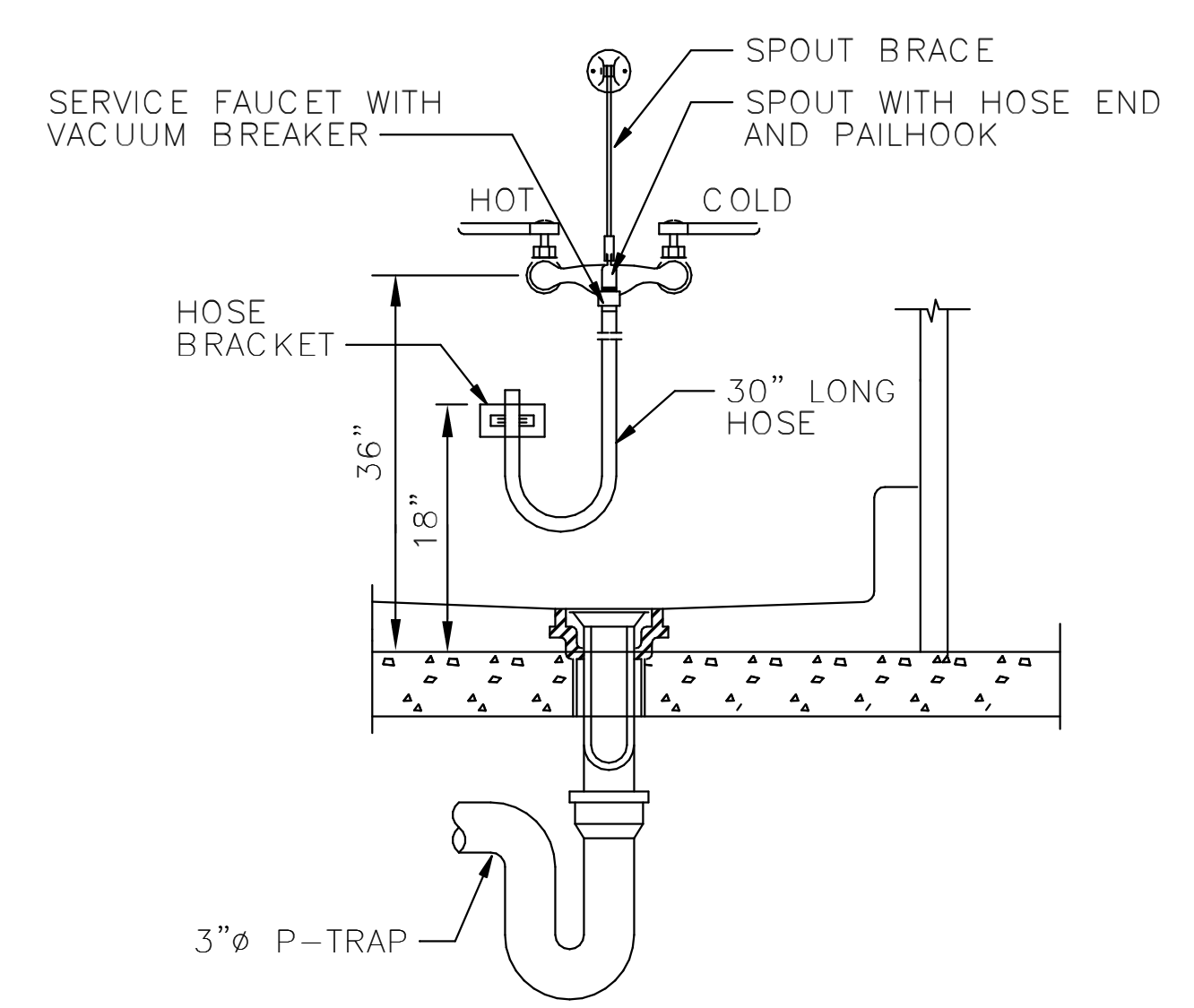
**8 WATER HAMMER ARRESTOR DETAIL**  
 P401 NTS



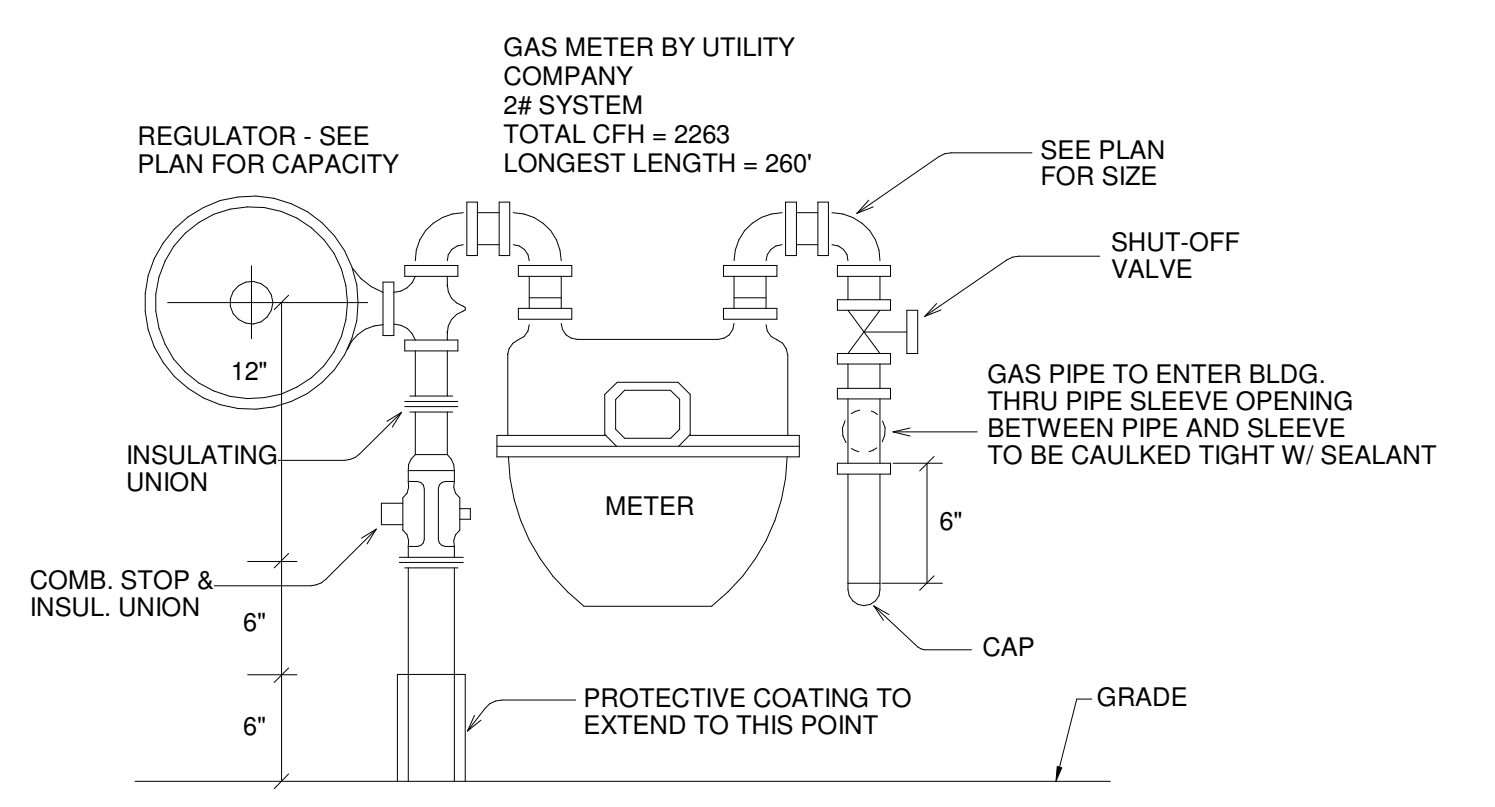
**5 TYPICAL LAVATORY MIXING VALVE DETAIL**  
 P401 NTS



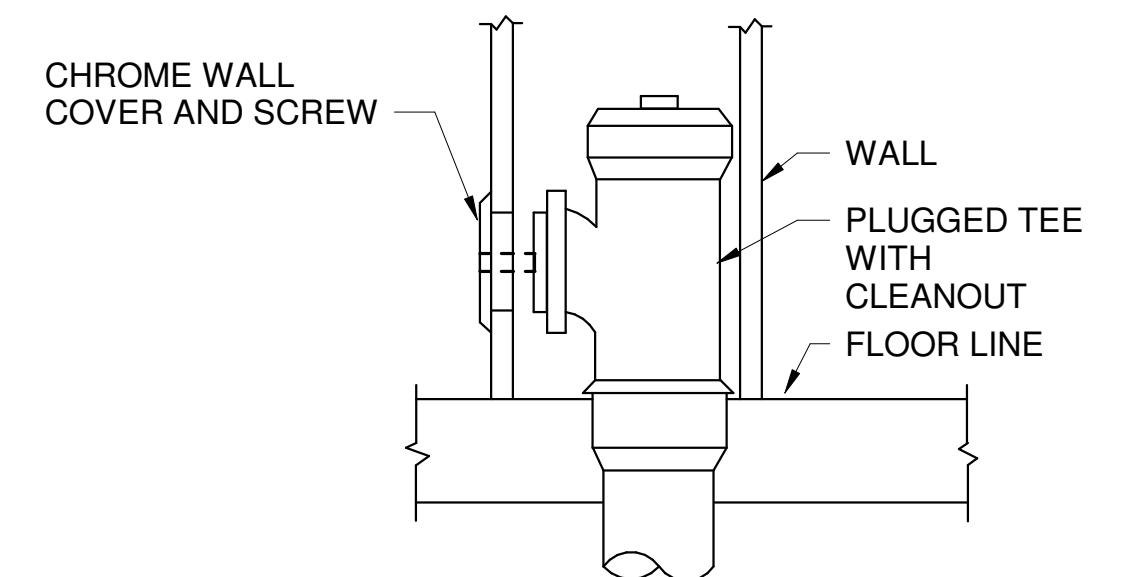
**1 FLOOR DRAIN DETAIL**  
 P401 NTS



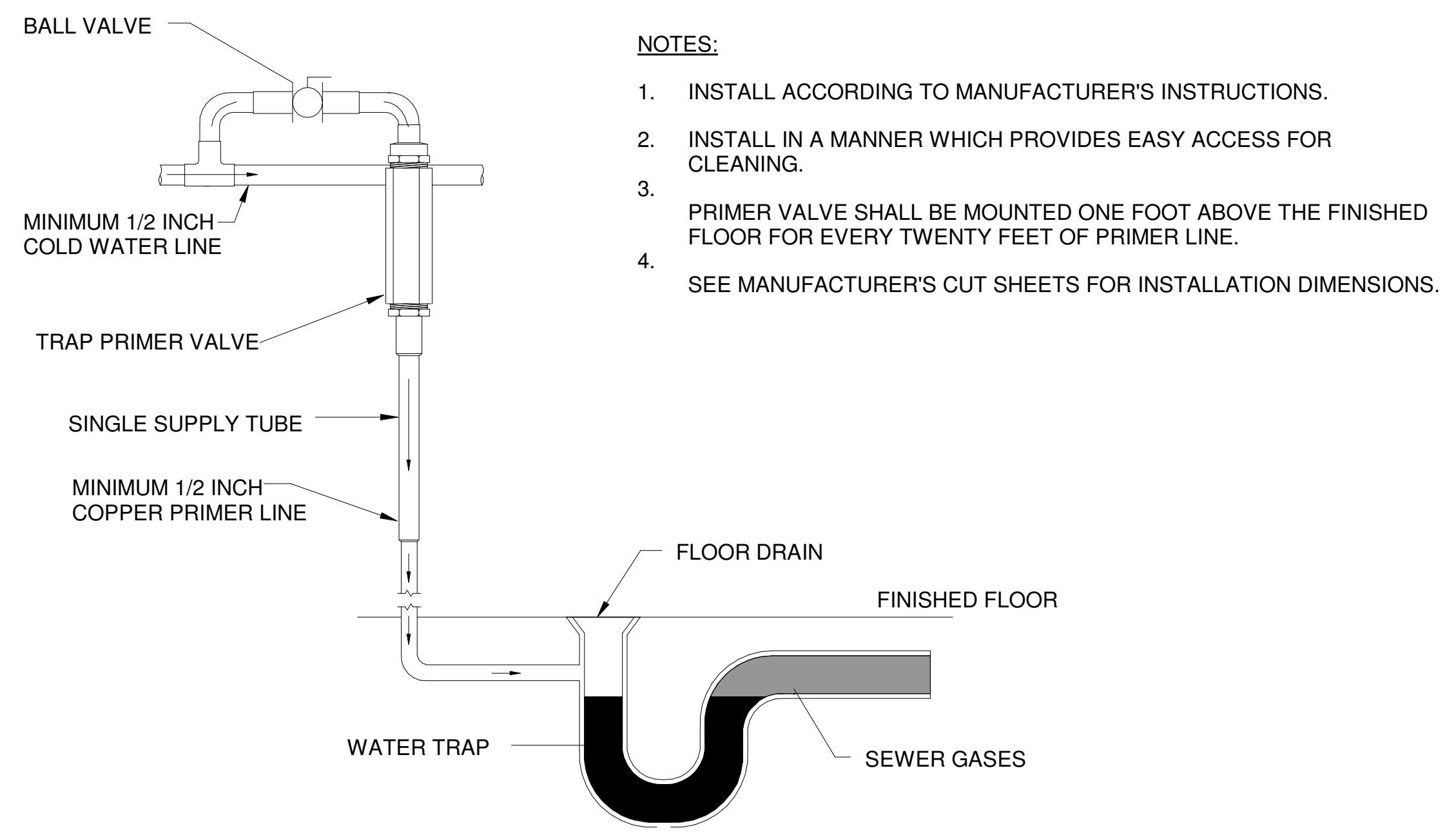
**2 SANITARY SINK WATER OUTLET DETAIL**  
 P401 NTS



**9 GAS METER DETAIL**  
 P401 NTS



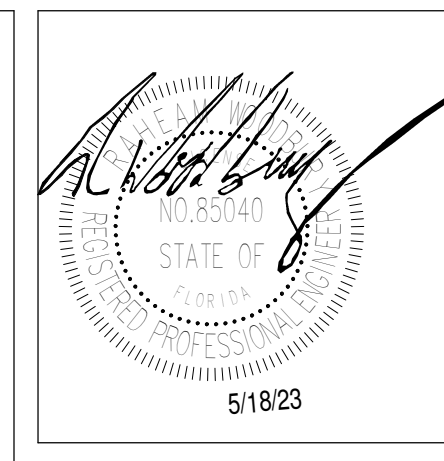
**6 TYPICAL WALL CLEANOUT DETAIL**  
 P401 NTS



**3 TRAP PRIMER UNIT**  
 P401 NTS

- NOTES:**
1. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
  2. INSTALL IN A MANNER WHICH PROVIDES EASY ACCESS FOR CLEANING.
  3. PRIMER VALVE SHALL BE MOUNTED ONE FOOT ABOVE THE FINISHED FLOOR FOR EVERY TWENTY FEET OF PRIMER LINE.
  4. SEE MANUFACTURER'S CUT SHEETS FOR INSTALLATION DIMENSIONS.

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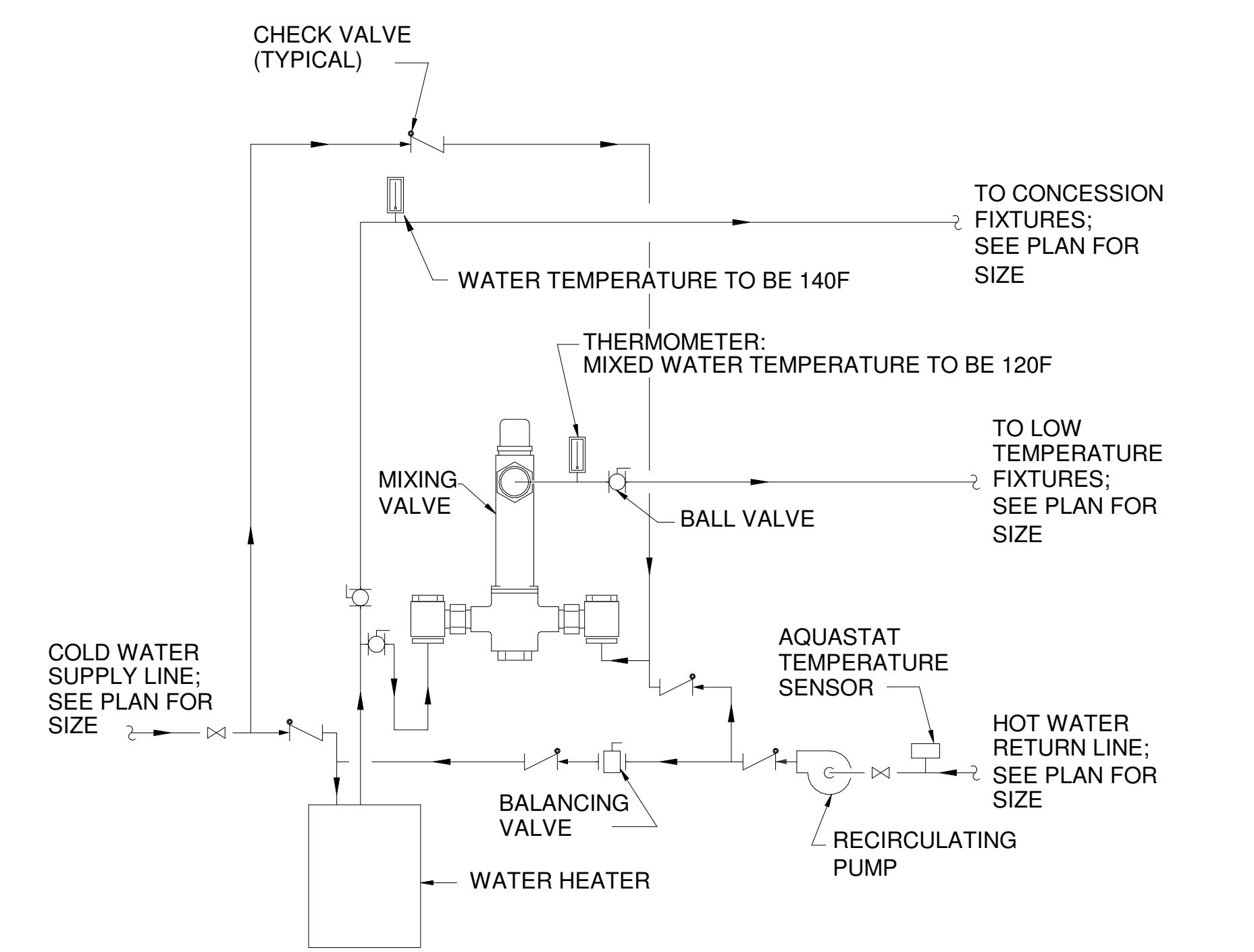
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#	DESCRIPTION	DATE

SHEET TITLE:  
DETAILS - PLUMBING

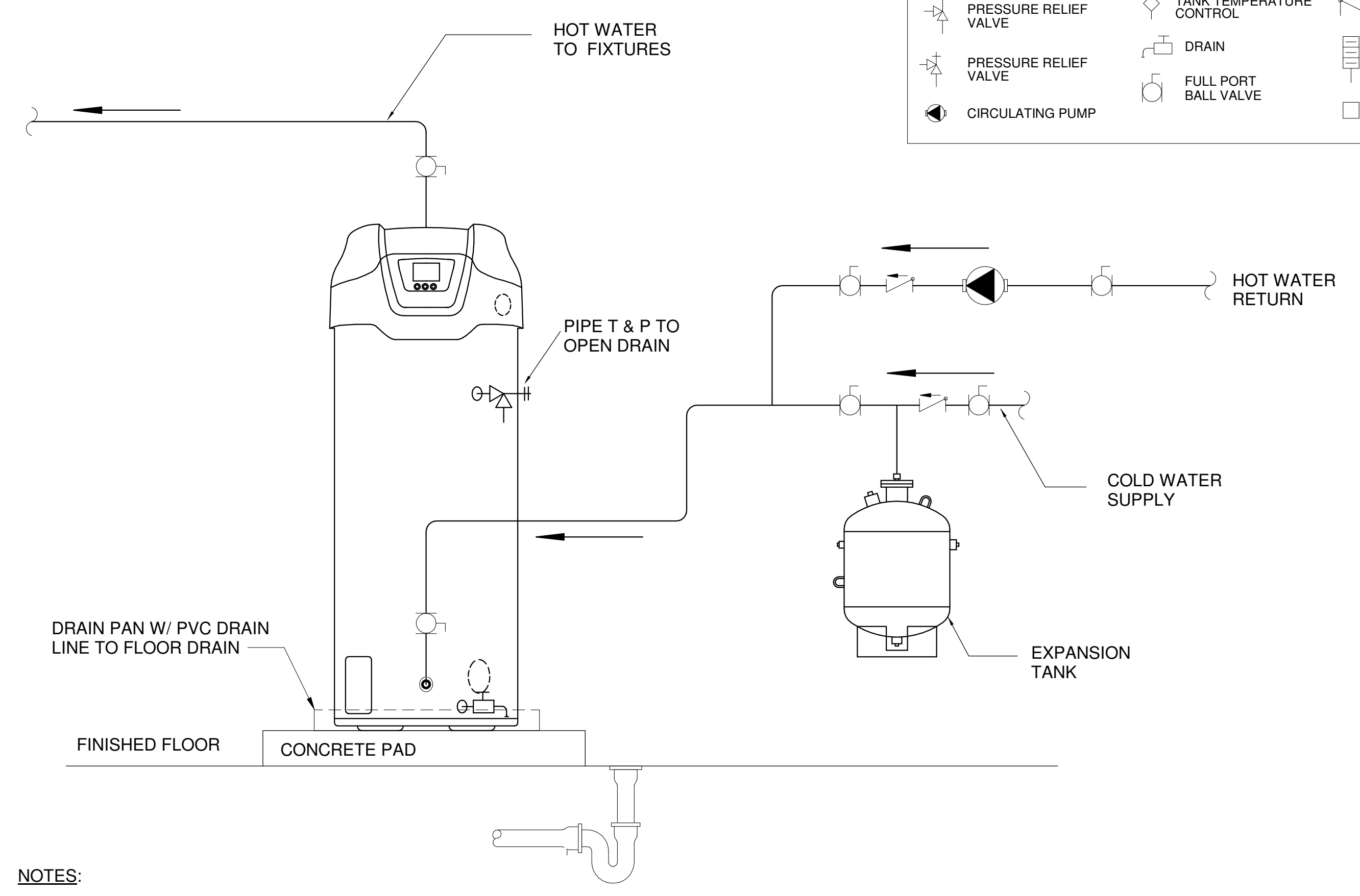
SHEET NUMBER:  
**P402**

	TEMPERATURE & PRESSURE RELIEF VALVE		TANK TEMPERATURE CONTROL		CHECK VALVE
	PRESSURE RELIEF VALVE		DRAIN		TEMPERATURE GAGE
	CIRCULATING PUMP		FULL PORT BALL VALVE		WATER FLOW SWITCH



- NOTES:**
- HEAT TRAP IS NOT REQUIRED WHERE MIXING VALVE IS INSTALLED BELOW STORAGE TANK OR WATER HEATER.
  - SET THE MIXING VALVE TO THE SYSTEM ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
  - SET THE BALANCING VALVE FOR 20% OF THE TOTAL RETURN.
  - MIXING VALVE TO BRING HOT WATER TEMPERATURE DOWN FROM 140F TO 120F. FIXTURES TO HAVE A SECOND MIXING VALVE TO BRING TEMPERATURE DOWN TO 105F.

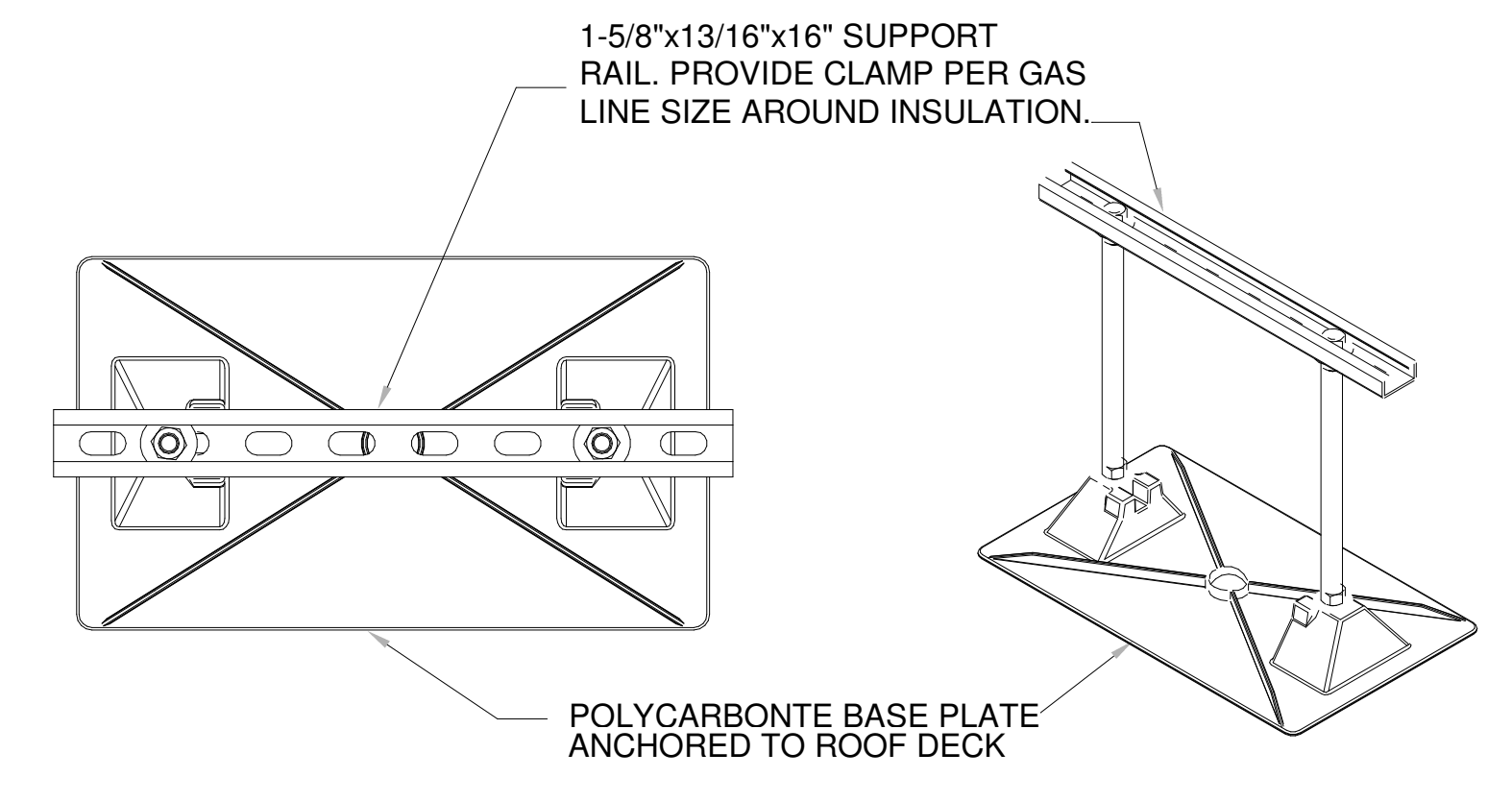
**4**  
P402  
**HOT WATER HEATER MIXING VALVE DETAIL**  
NTS



- NOTES:**
- PREFERRED PIPING DIAGRAM.
  - THE TEMPERATURE AND PRESSURE RELIEF VALVE SETTING SHALL NOT EXCEED PRESSURE RATING OF ANY COMPONENT IN THE SYSTEM.
  - SERVICE VALVES ARE SHOWN FOR SERVICING UNIT. HOWEVER, LOCAL CODES SHALL GOVERN THEIR USAGE. TEMPERING VALVE TO BE INCLUDED. SEE DETAIL.
  - 4" HIGH CONCRETE PAD TO SUPPORT THE UNIT.
  - FIXTURES TO HAVE A MIXING VALVE TO LOWER TEMPERATURE TO 120°F

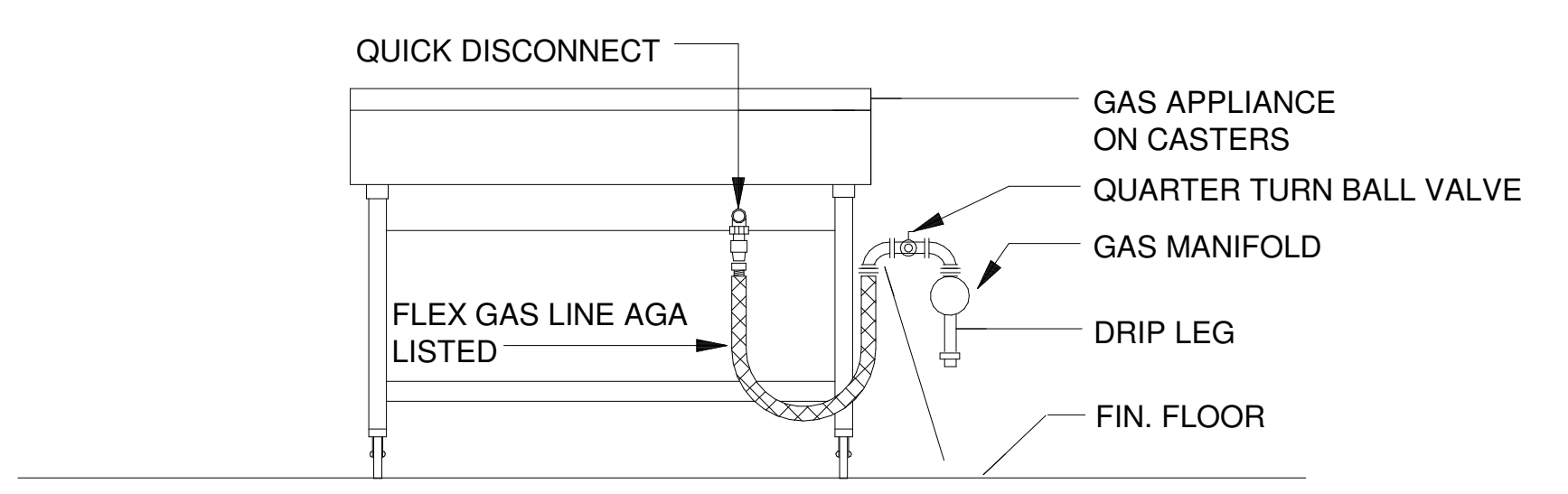
**WARNING:** THIS DRAWING SHOWS SUGGESTED PIPING CONFIGURATION AND OTHER DEVICES; CHECK WITH LOCAL CODES AND ORDINANCES FOR ADDITIONAL REQUIREMENTS.

**1**  
P402  
**WATER HEATER DETAIL**  
NTS



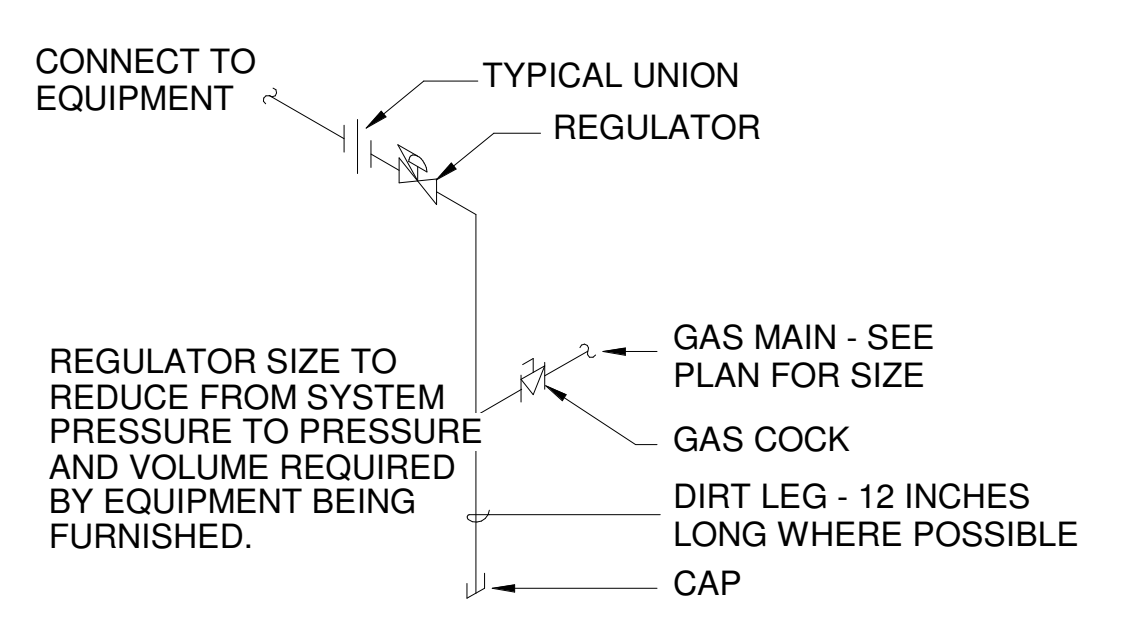
PROVIDE SUPPORT EQUAL TO MIRO INDUSTRIES MODEL 16-BASE STRUT-12  
 SUPPORTS TO BE 10' MAX FROM EACH OTHER THROUGHOUT ENTIRE PIPE RUN.  
 APPLICABLE FOR CONDENSATE LINES AS WELL.

**5**  
P402  
**OUTDOOR GAS / CONDENSATE PIPING SUPPORT DETAIL**  
NTS



COORDINATE W/ EQUIPMENT SUPPLIER FOR REQUIRED PRESSURE REGULATOR  
 UNION & ELBOW PROVIDED ON FLEX HOSE W/ SWIVEL.

**2**  
P402  
**TYPICAL GAS APPLIANCE CONNECTION**  
NTS



**3**  
P402  
**TYPICAL GAS CONNECTION DETAIL**  
NTS

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GENERAL NOTE: PLUMBING FIXTURE MODELS ARE BASIS OF DESIGN ONLY. SEE SPECIFICATIONS FOR EQUALS.



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SCHEDULE - PLUMBING

SHEET NUMBER:  
**P501**

**PLUMBING FIXTURE SCHEDULE**

MARK	DESCRIPTION	MANUFACTURER	MODEL	HOT WATER	COLD WATER	WASTE	VENT	REMARKS
1000 GAL GREASE TRAP	1000 GAL GREASE TRAP	---	---	---	---	3"	2"	---
BFP-1	DOUBLE CHECK VALVE BACKFLOW ASSEMBLY	WATTS	LF007-NRS	---	2-1/2"	---	---	---
CO-1	FLOOR CLEANOUT WITH HEAVY DUTY ROUND TOP	WATTS	CO-204-RX	---	---	4"	---	---
CO-2	FLOOR CLEANOUT WITH HEAVY DUTY ROUND TOP	WATTS	CO-203-RX	---	---	3"	---	---
EWC-1	ELECTRIC WATER COOLER WITH BOTTLE FILLER	ELKAY	LZSG8WSLK	---	1/2"	1-1/2"	1-1/2"	115V/60HZ
EWC-2	BI-LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLER	ELKAY	LZSTLG8WSLK	---	1/2"	1-1/2"	1-1/2"	115V/60HZ
FD-1	FLOOR DRAIN	JAY R SMITH	2005	---	1/2"	3"	2"	NICKEL BRONZE TYPE "B" ADJUSTABLE TOP. 1/2" TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	JAY R SMITH	3009	---	1/2"	3"	2"	FIXTURES ROUTED TO FLOOR SINK TO HAVE MINIMUM 1" AIR GAP TO SURFACE OF FLOOR SINK.
GAS METER	GAS METER BY OTHERS	---	---	---	---	---	---	---
HB-1	HEAVY COMMERCIAL WALL HYDRANT WITH LOCK AND KEY	PRIER	C-634BX1	---	3/4"	---	---	24" AFF. BACKLOW PREVENTION, FREEZELESS, NICKEL LOCKING BOX.
LAV-1	COUNTERTOP LAVATORY	ZURN	Z5110	1/2"	1/2"	1-1/2"	2"	FAUCET - ZURN Z81101-XL. 4" CENTERSET. TEMPERING VALVE TO BE INCLUDED.
LAV-2	WALL HUNG LAVATORY	ZURN	Z5350	1/2"	1/2"	1-1/2"	2"	FAUCET - ZURN Z81101-XL. 4" CENTERSET. TEMPERING VALVE TO BE INCLUDED.
MS-1	MOP SINK	STERN-WILLIAMS	MTB-3624	---	---	3"	2"	MOP BASIN WITH BUMPER GAURDS, MOP HANGERS, AND SS SPLASH PANELS.
MS-2	MOP SINK FAUCET	STERN-WILLIAMS	T-10-VB	1/2"	1/2"	---	---	MOP SINK FAUCET WITH HOSE.
OFD-1	OVERFLOW DOWNSPOUT NOZZLE	JAY R SMITH	1770	---	---	4"	---	24" MAX AFF. A PREFINISH METAL (COW TONGUE) DOWNSPOUT NOZZLE WITH ESCUTCHEON FITTING 4" DIAMETER PVC ELBOW. COLOR TO BE EITHER WHITE TO MATCH WHITE METAL WALL PANELS OR CLEAR ANODIZED SILVER.
PRV-1	HIGH CAPACITY WATER PRESSURE REDUCING VALVE WITH STRAINER	WATTS	LFN223B-S	---	2-1/2"	---	---	SET AT 60 PSI
RD-1	ROOF DRAIN AND OVERFLOW DRAIN	JAY R SMITH	1850	---	---	4"	---	---
SK-1	DOUBLE BOWL SINK	ELKAY	LR4322	1/2"	1/2"	2"	2"	FAUCET TO BE - ELKAY: LKD2439BHC. TEMPERING VALVE TO BE INCLUDED.
SK-2	SINGLE BOWL SINK	ELKAY	LRAD312265	1/2"	1/2"	2"	2"	FAUCET TO BE - ELKAY: LKD2439BHC. TEMPERING VALVE TO BE INCLUDED.
SK-3	SINGLE BOWL SINK	ELKAY	PLA252212	1/2"	1/2"	2"	2"	FAUCET TO BE - ELKAY: LK2000CR. TEMPERING VALVE TO BE INCLUDED.
SOLID INTERCEPTOR	SOLIDS INTERCEPTOR	ZURN	Z1180	---	---	2"	1-1/2"	INTERCEPTOR TO BE USED IN LIEU OF P-TRAP, FOR ON-FLOOR INSTALLATION.
UR-1	URINAL	ZURN	Z5750	---	3/4"	2"	2"	WALL MOUNTED, MANUAL FLUSH VALVE (0.5 GPF) ZURN Z60003AV-WS1.
WC-1	WATER CLOSET	KOHLER	4406	---	1"	4"	3"	FLOOR MOUNTED, MANUAL FLUSH VALVE: KOHLER - K-13517
WC-2	WATER CLOSET - ADA COMPLIANT	KOHLER	4406	---	1"	4"	3"	FLOOR MOUNTED, MANUAL FLUSH VALVE: KOHLER - K-13517
WCO-1	EXPANABLE LINE CLEANOUT WITH WALL ACCESS COVER	JAY R. SMITH	4510	---	---	4"	3"	PROVIDE WITH STAINLESS STEEL COVER. VENT WHERE APPLICABLE.
WCO-2	EXPANABLE LINE CLEANOUT WITH WALL ACCESS COVER	JAY R. SMITH	4510	---	---	3"	2"	PROVIDE WITH STAINLESS STEEL COVER. VENT WHERE APPLICABLE.
WCO-3	EXPANABLE LINE CLEANOUT	JAY R. SMITH	4510	---	---	2"	2"	PROVIDE WITH STAINLESS STEEL COVER. VENT WHERE APPLICABLE.
WMVB-1	WASHING MACHINE VALVE BOX	IPS CORPORATION	W4700	1/2"	1/2"	2"	2"	GUY GRAY OR APPROVED EQUAL

**ELECTRIC WATER HEATER SCHEDULE**

MARK	MANUFACTURER	MODEL	EFF (%)	ENTERING WATER TEMP	LEAVING WATER TEMP	RECOVERY RATE (GPH) @ 100°F	STORAGE CAPACITY (GAL)	TANK HEIGHT	TANK WIDTH / DIAMETER	V/PH/Hz	KILOWATTS	WEIGHT	REMARKS
EWH-1	A. O. SMITH	DRE-52-15	96	50 °F	140 °F	61	50	55.25"	21.75"	208/3/60	15.0	260	---

**PUMP SCHEDULE**

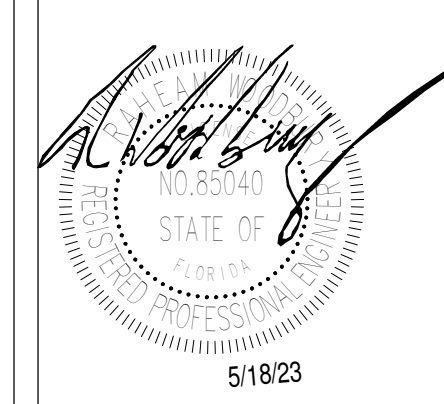
MARK	MANUFACTURER	MODEL	SERVICE	PUMP TYPE	FLOW RATE	DISCH HEAD (FT)	RPM	MOTOR STARTER	POWER	V/PH/Hz	REMARKS
CP-1	Bell & Gossett	NBF-45	HW RECIRCULATION	IN-LINE CIRCULATOR	5 GPM	15	3300	INTERGRAL	270 W	115/1/60	1

REMARKS:  
1. PROVIDE TIME CLOCK/TIMER TO OPERATE DURING OCCUPIED PERIODS.

**EXPANSION TANK SCHEDULE**

MARK	MANUFACTURER	MODEL	SERVICE	ORIENTATION	TYPE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	PRE-CHARGE PRESSURE (PSI)	REMARKS
EXT-1	WATTS	DETA 5	HOT WATER	VERTICAL	BLADDER	3.5	2.3	40	CONNECT TO EWH-1

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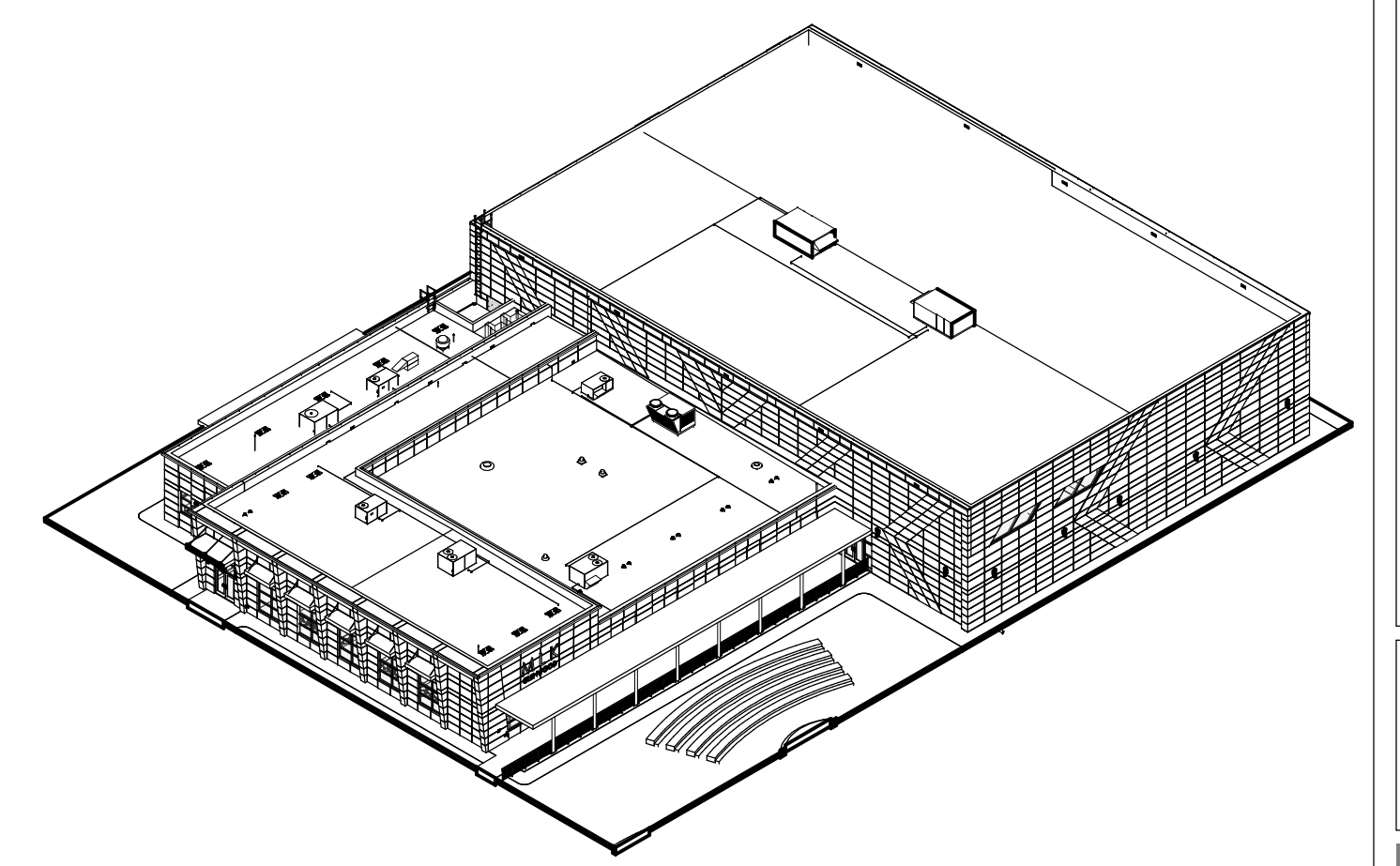
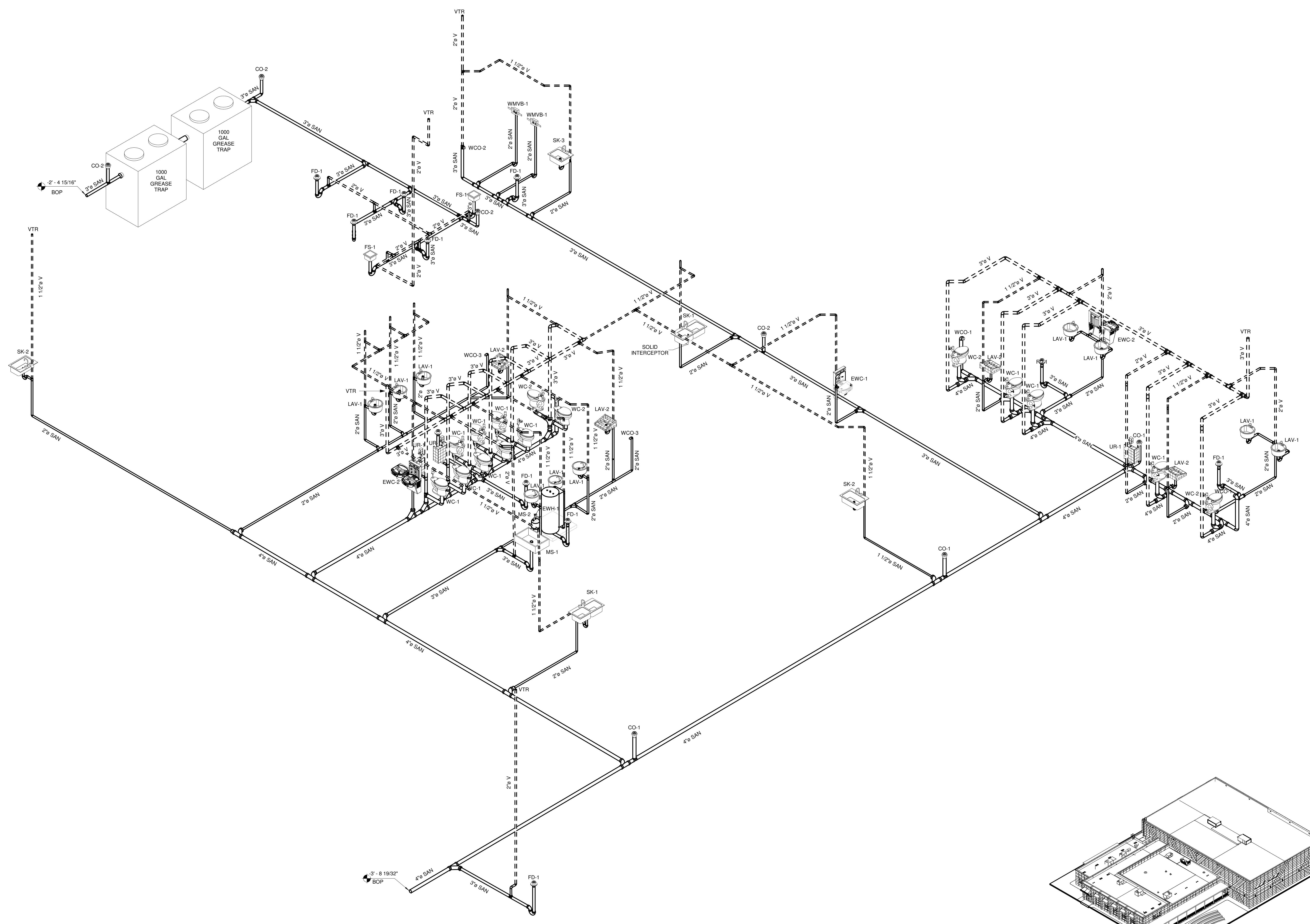
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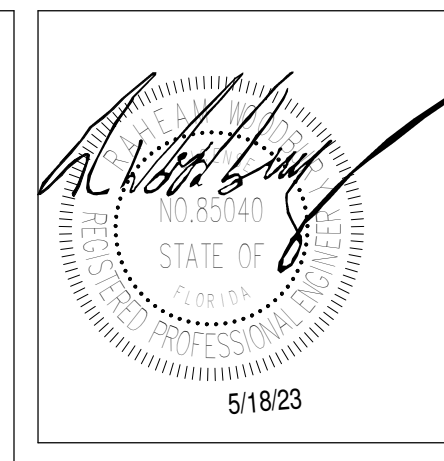


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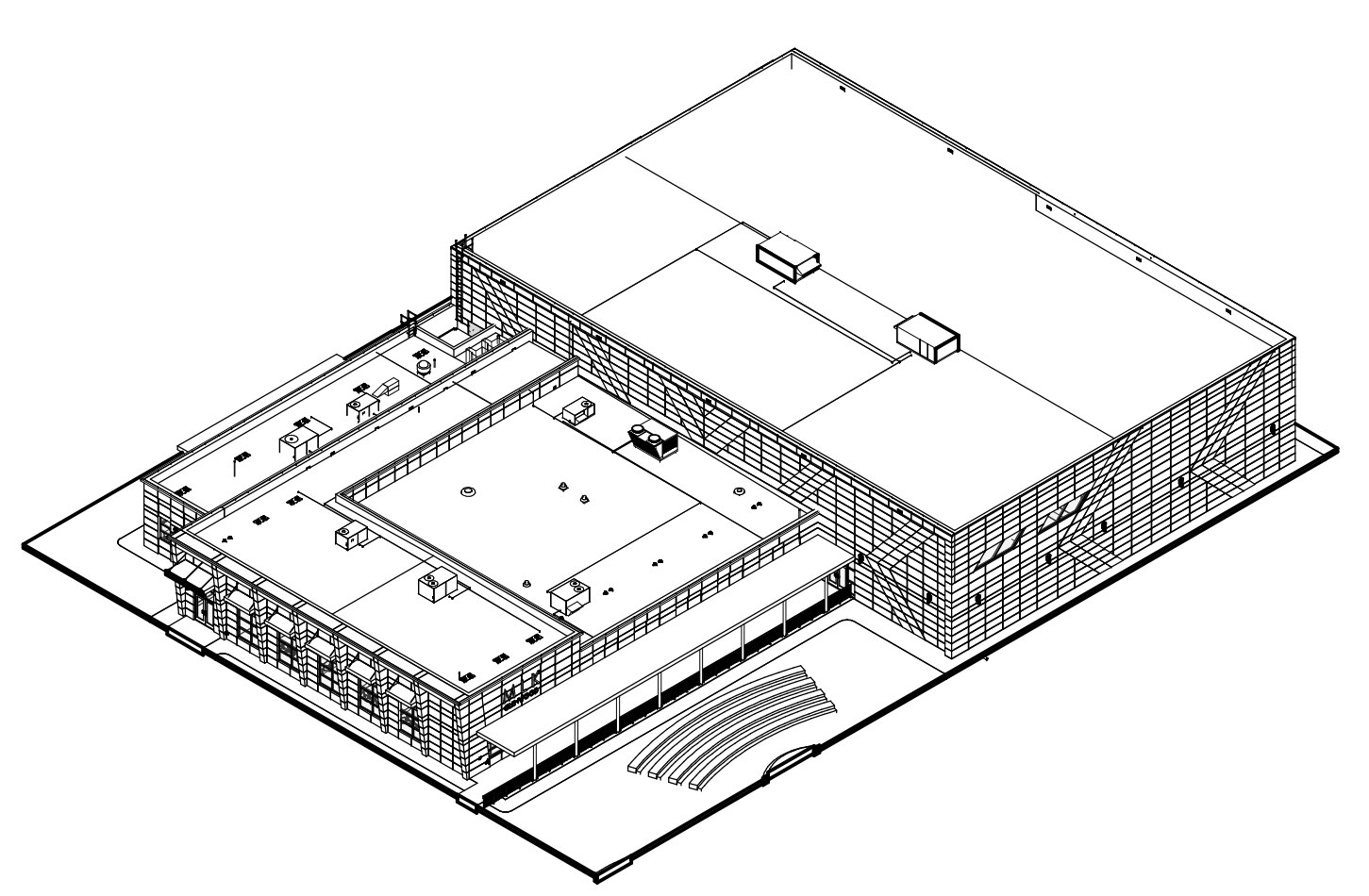
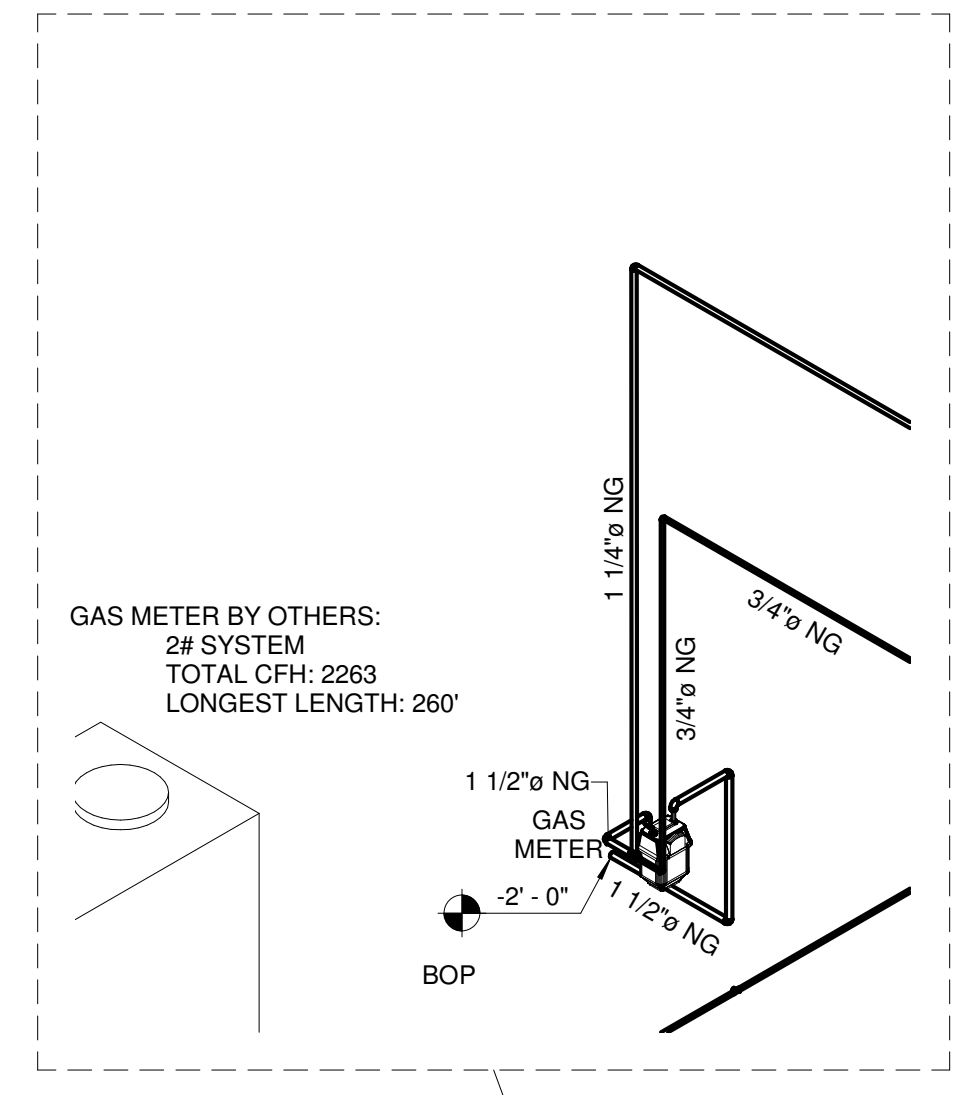
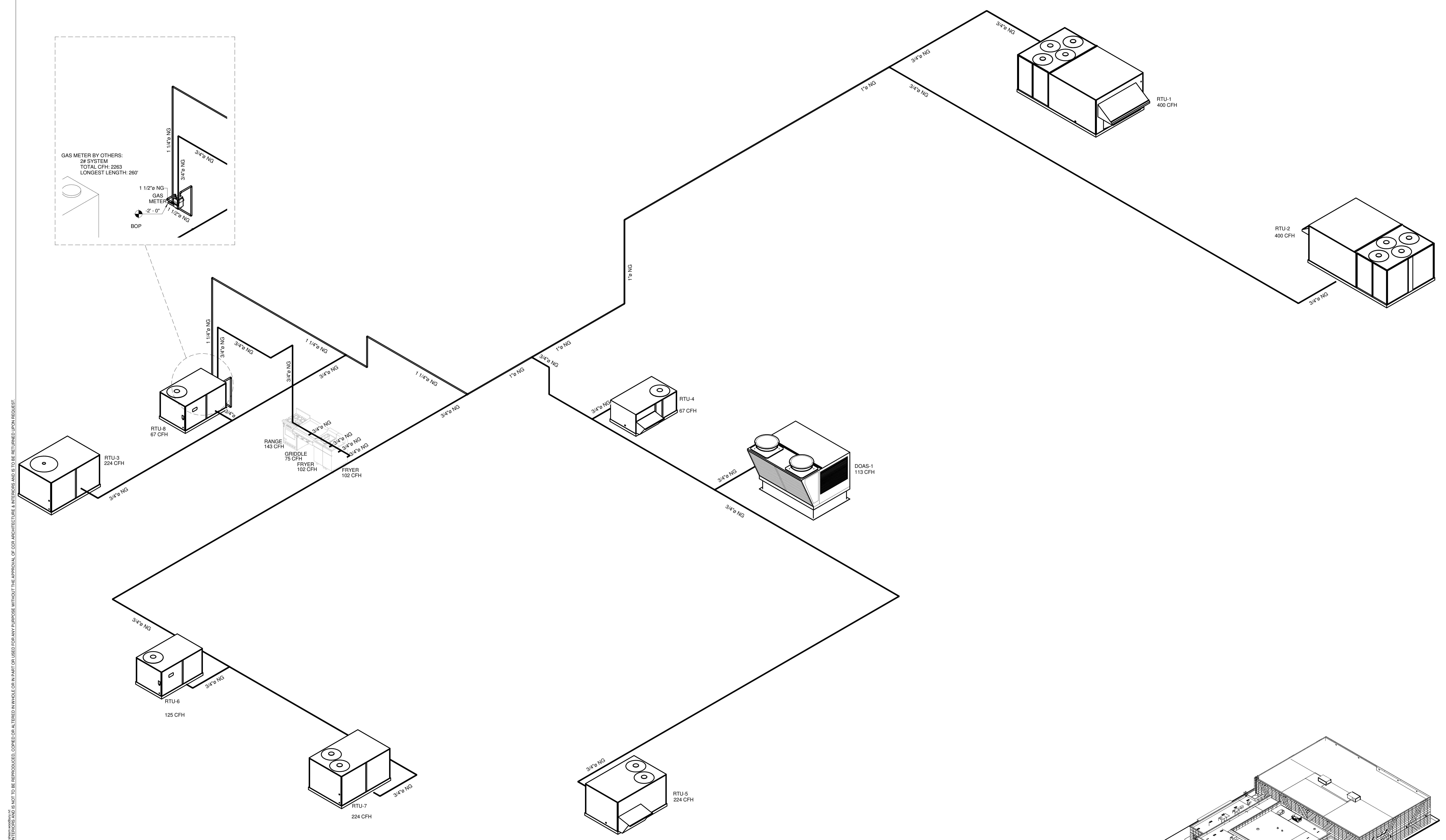
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