

PLUMBING PIPE MATERIAL SCHEDULE							
PIPE SYSTEM	SIZE	PIPE			FITTINGS		
		MATERIAL	TYPE / WEIGHT	STANDARD	MATERIALS	TYPE / WEIGHT	STANDARD
DOMESTIC WATER PIPING (CW, HW, HWC)	ALL	COPPER	HARD / TYPE L	ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
WATER SERVICE PIPING	3/4" - 4"	COPPER	HARD / TYPE K	ASTM B75 ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
	ALL	DUCTILE IRON	SCHEDULE 40	AWWA C151/A21.51	DUCTILE IRON	GROOVED END	AWWA C606
SANITARY, WASTE, VENT (ABOVE GROUND)	< 4"	COPPER	DWV HARD / TYPE L	ASTM B88	DWV COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
	ALL	CAST IRON	HUBLESS / HUB AND SPIGOT SCHEDULE 40 / SERVICE	ASTM A74 ASTM A888 CISP1 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
SANITARY, WASTE, VENT (BELOW GROUND)	ALL	CAST IRON	HUB AND SPIGOT EXTRA-HEAVY	ASTM A74 ASTM A888 CISP1 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
STORM (ABOVE GROUND)	ALL	CAST IRON	HUBLESS / HUB AND SPIGOT SCHEDULE 40 / SERVICE	ASTM A74 ASTM A888 CISP1 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
NATURAL GAS	≤ 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	THREADED	ASME B16.3
	> 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	WELDED	ASME B16.3

NOTES:
1. INSTALL DUCTILE IRON PIPING UNDER BUILDING SLAB WITH RESTRAINED JOINTS ACCORDING TO AWWA C600 AND AWWA M41.
2. INSTALL UNDERGROUND COPPER AND DUCTILE IRON PIPE IN PE ENCASUREMENT ACCORDING TO ASTM A 674 OR AWWA C105/A21.5
3. DUCTILE IRON WATER SERVICE PIPING SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104.
4. WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL HAVE A WORKING PRESSURE RATING OF NOT LESS THAN 160 PSI AT 73.4 °F
5. ALL MEDICAL GAS PIPE SHALL BE MANUFACTURER CLEANED, PURGED, AND SEALED FOR MEDICAL GAS SERVICE, OR ACCORDING TO CGA G-4.1 FOR OXYGEN SERVICE. INCLUDE STANDARD COLOR MARKING "OXY", "MED", "OXYMED", OR "ACR/MED" IN BLUE FOR TYPE L TUBE.

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	BFP	BACK FLOW PREVENTOR
+	-	BALL VALVE
⊘	-	BASKET STRAINER
⊘	-	BUTTERFLY VALVE
⊘	-	CHECK VALVE
⊘	-	CIRCUIT SETTER
⊘	CODP	CLEAN OUT DECK PLATE
-	CW	COLD WATER
∇	-	CONCENTRIC REDUCER
-	DCV	DOUBLE CHECK VALVE - BFP
∇	-	ECCENTRIC REDUCER
∪	-	ELBOW DOWN
∩	-	ELBOW UP
-	DEM.	EXISTING TO BE REMOVED
-	EX.	EXISTING TO REMAIN
⊠	-	FLEXIBLE CONNECTION
-	FCO	FLOOR CLEAN OUT
-	FS	FLOOR SINK
→	-	FLOW ARROW
-	FAI	FRESH AIR INTAKE
⊘	-	GATE VALVE
⊘	-	GLOBE VALVE
-	HW	HOT WATER
-	HW HTR	HOT WATER HEATER
-	HWC	HOT WATER RECIRCULATION
-	LDR	LEADER
-	-	MANUAL AIR VENT
-	NEW	NEW WORK
⊘	-	OS&Y GATE VALVE
⊘	-	PLUG VALVE
-	-	PIPE CAP
⊘	-	PRESSURE GAGE
⊘	-	PRESSURE REDUCING VALVE
⊘	-	PUMP
-	PD	PUMP DISCHARGE
-	RPZ	REDUCED PRESSURE ZONE - BFP
-	REL.	REMOVE AND RELOCATE
-	S	SANITARY
⊘	-	SOLENOID VALVE
⊘	-	STRAINER
-	SD	STORM DRAINAGE
∪	-	TEE DOWN
∩	-	TEE UP
⊘	-	THERMOMETER
-	TYP.	TYPICAL
⊘	-	T&P RELIEF VALVE
∪	-	UNION
-	V	VENT
-	VTR	VENT THROUGH ROOF
-	WCO	WALL CLEAN OUT
-	W	WASTE LINE
⊘	-	2-WAY VALVE
⊘	-	3-WAY VALVE

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

GENERAL NOTES

- THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
- THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
- PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
- ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.
- PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
- PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2 1/2".
- NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS AS REQUIRED. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE PLUMBING WORK.
- NEW PIPING LAYOUT IS PREDICATED ON RECORD DRAWING DATA OF EXISTING RISERS AND DRAWINGS. MODIFICATIONS TO THE LAYOUT MAY BE REQUIRED DUE TO DIFFERENT ACTUAL CONDITIONS, OBSTRUCTIONS, INTERFERENCES, ETC.
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.



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VMDO Project Number

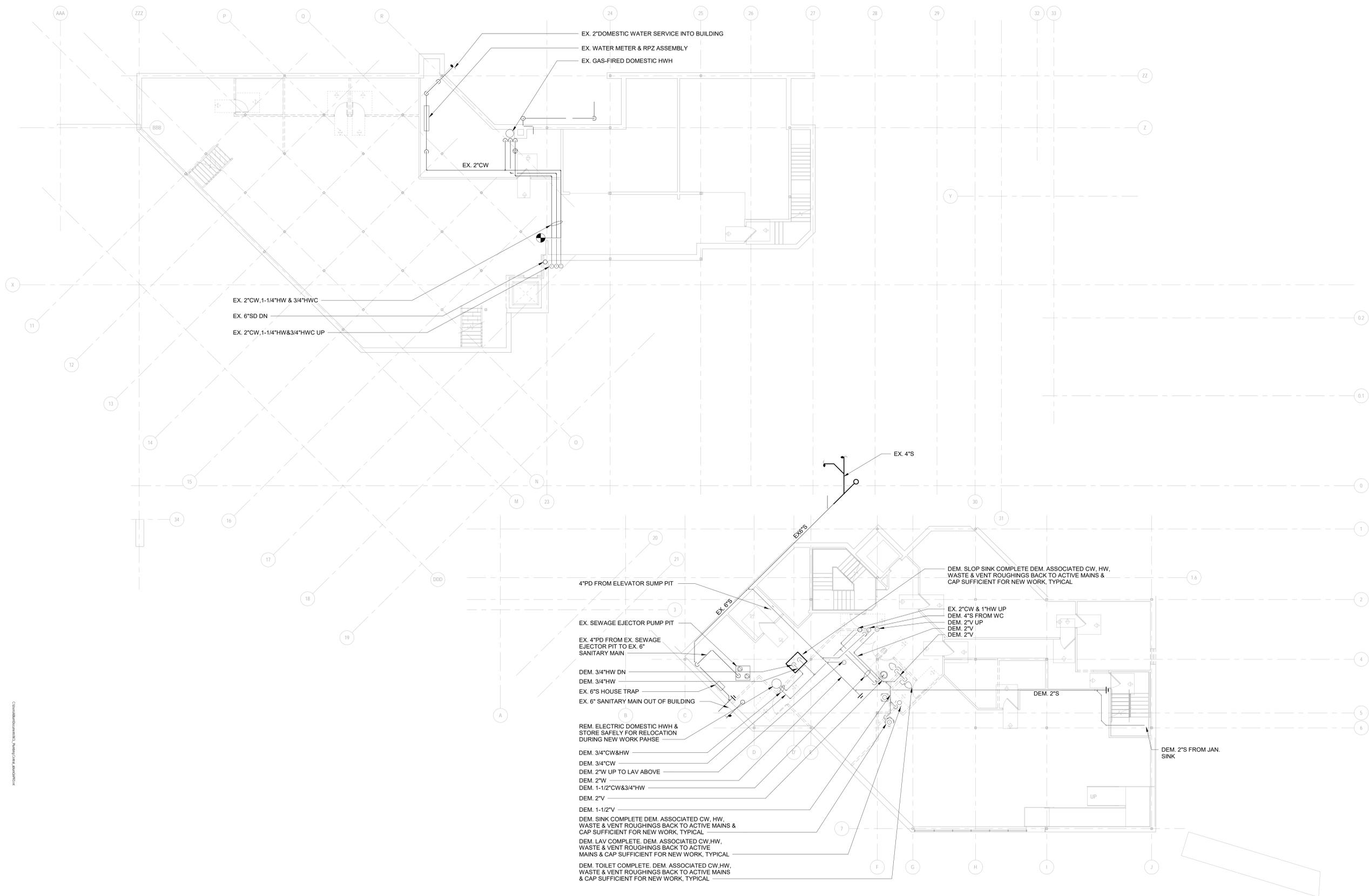
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Drawn By: AMB

DRAWING NOT FOR CONSTRUCTION

ISSUES AND REVISIONS	DATE
NO. SUBMITTAL	
DESIGN DEVELOPMENT	07.09.2021

PLUMBING SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULES

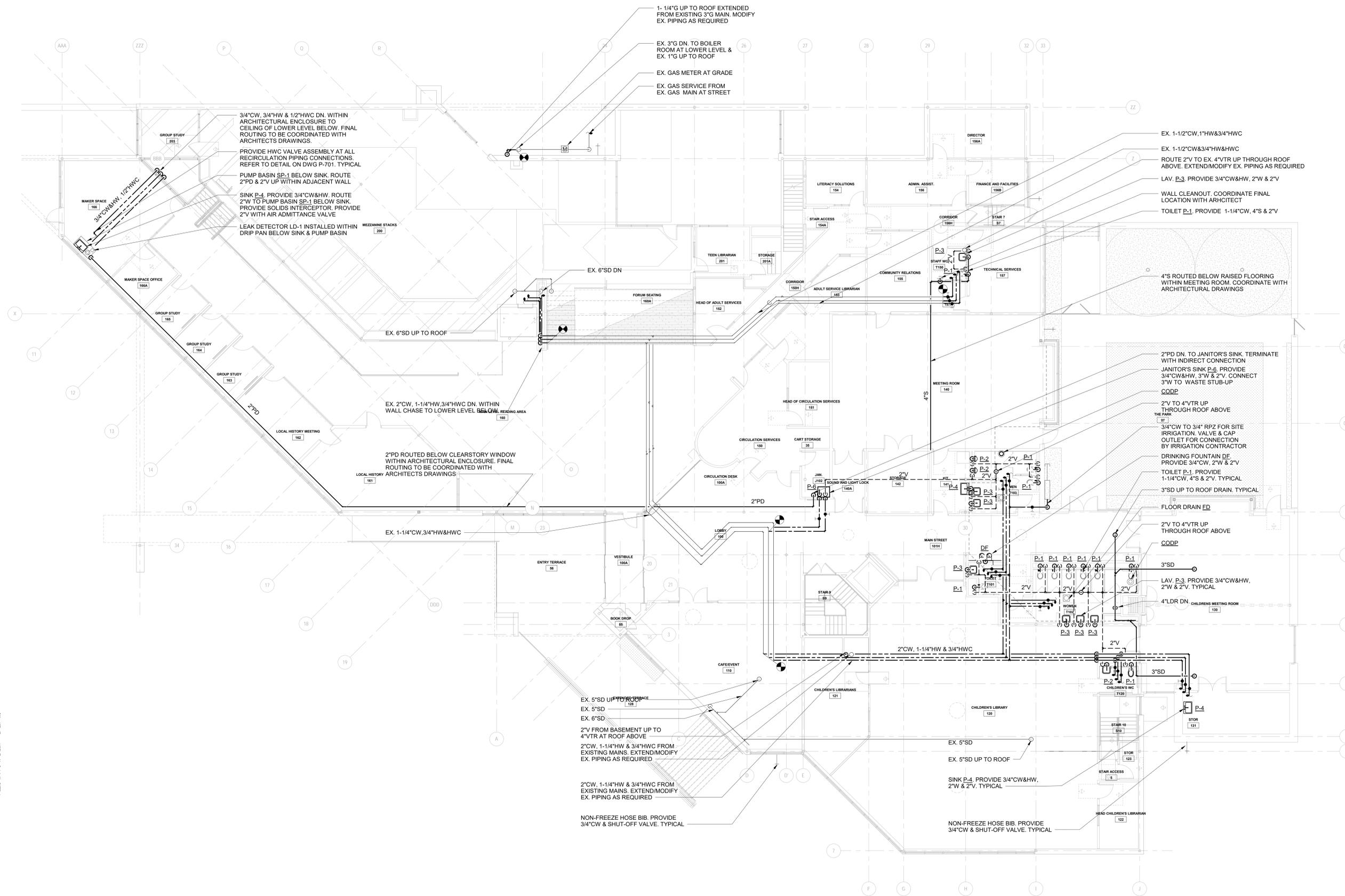
P-001
DESIGN DEVELOPMENT
07.09.2021



1 PLUMBING LOWER LEVEL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

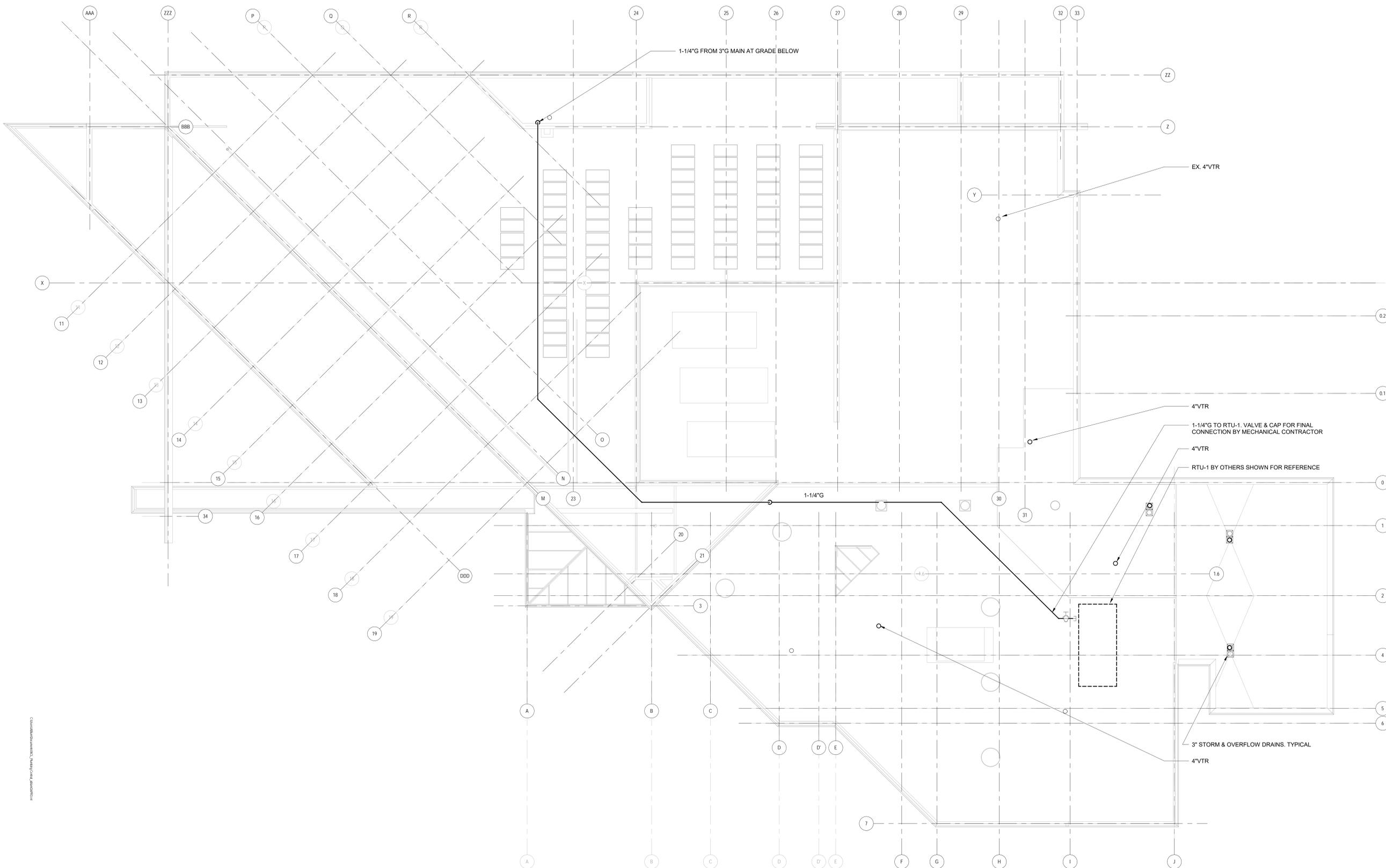
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AUGUST 2021

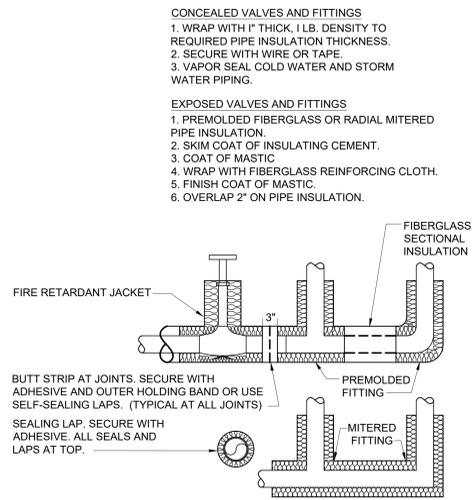


1 PLUMBING MAIN LEVEL NEW WORK PLAN
SCALE: 1/8" = 1'-0"

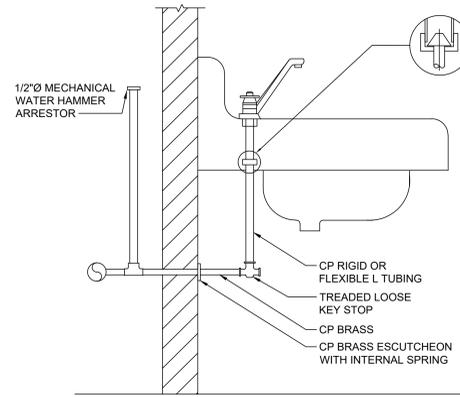
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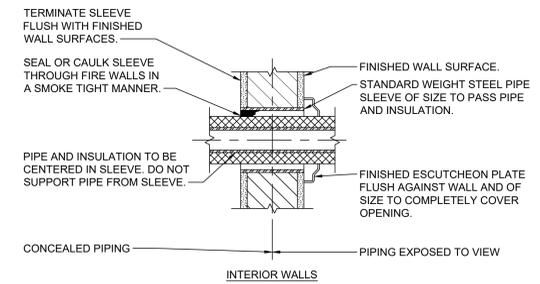
1 PLUMBING ROOF NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NORTH



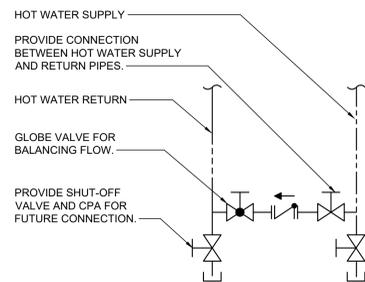
6 PIPE INSULATION DETAIL
SCALE: NONE



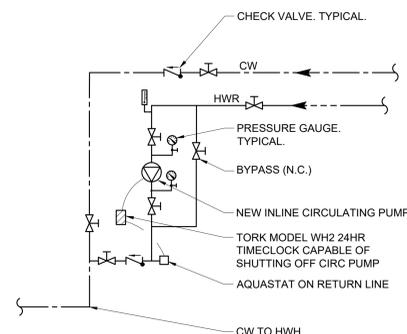
4 SUPPLY LAVATORY SUPPLY CONNECTION
SCALE: NONE



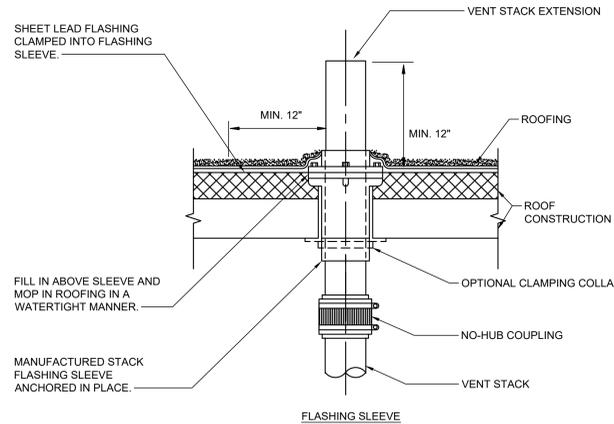
2 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS
SCALE: NONE



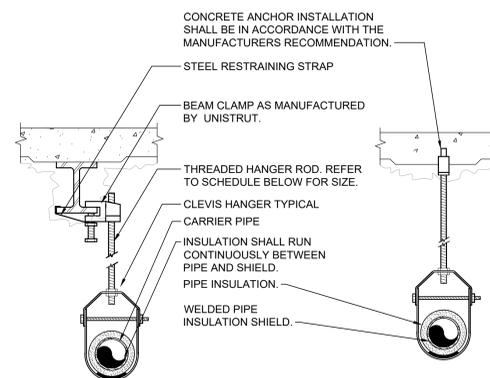
7 HOT WATER RECIRC CONNECTION DETAIL
SCALE: NONE



5 HOT WATER RECIRCULATION SCHEMATIC
SCALE: NONE



3 VENT THRU ROOF
SCALE: NONE



PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

- NOTES:**
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
 2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
 3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
 4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
 5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
 6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
 7. ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

1 PIPE HANGER DETAIL
SCALE: NONE

DRAWING NOT FOR CONSTRUCTION

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PLUMBING DETAILS

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