

**PLUMBING NOTES:**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
- IN THE EVENT OF ANY DISCREPANCY BETWEEN THE DEMOLITION PLAN AND THE CONSTRUCTION PLANS, CONSTRUCTION PLANS AND INTENT SHALL GOVERN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH BUILDING MANAGEMENT FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
- PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH RESPECT TO OTHER TRADES, STRUCTURE AND CEILING HEIGHTS. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL LAYOUTS, INCLUDING CEILING HEIGHTS.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ARCHITECT PRIOR TO COMMENCEMENT OF SUCH WORK.
- DRAWINGS ARE NOT TO BE SCALED.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL BUILDING DEPARTMENT REGULATORY AGENCIES, BUILDING STANDARDS AND NEW YORK CODE REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS OF ALL TRADES.
- CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY COOPERATIVE CORPORATION AND OBSERVE THEIR PERMITTED HOURS FOR WORK.
- CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS, SHALL FULLY PROTECT THEM FROM ANY DAMAGE RESULTING FROM CONTRACTORS' WORKMEN, SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
- ALL DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
- UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE ALL WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
- UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURERS' DIRECTIONS, INSTRUCTIONS AND RECOMMENDATIONS FOR ALL MATERIALS AND PROCESSES USED IN THIS CONTRACT.
- UPON COMPLETION OF THE WORK, CONTRACTOR SHALL COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE.
- BUILDING DEPARTMENT APPROVED PLANS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
- AT THE FINAL COMPLETION OF THE JOB, CONTRACTOR SHALL SUBMIT TO THE OWNER AND TO ENGINEER A NOTARIZED AFFIDAVIT STATING COMPLIANCE WITH ALL PROVISIONS OF THIS CONTRACT, INCLUDING ALL NOTES, EXCEPT FOR THOSE CHANGES SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT.
- VACUUM BREAKER AND RELATED PIPING SHALL BE INSTALLED BEHIND WALL; PROVIDE AN ACCESS PANEL TO THE VACUUM BREAKER. ALL EXPOSED PIPING AT THE PANTRY SHALL BE STEEL WITH CHROME PLATED FINISH.
- CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR, STARTING FROM DATE OF FINAL COMPLETION OF ALL WORK.
- PROVIDE CLEANOUTS FOR CHANGES IN DIRECTION FOR ALL SANITARY PIPING.
- PLUMBING CONTRACTOR SHALL COORDINATE ALL FLOOR CORING SLEEVES AND FLOOR OPENINGS WITH STRUCTURAL DRAWINGS.
- ALL EXPOSED PIPING PENETRATIONS THROUGH WALLS OR CEILINGS SHALL BE PROVIDED WITH APPROPRIATE FIRE RETARDANT SEALANT AND ESCUTCHEONS.
- THE CONTRACTOR MUST MAKE ALLOWANCE FOR NECESSARY MODIFICATIONS TO EXISTING CONDITIONS TO PERFORM WORK.
- THE CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL EXISTING MAIN STACKS AND RISERS AND CONNECTIONS FROM EXISTING FIXTURES.
- THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
- COORDINATE THE NEW WATER, VENT AND SANITARY DRAINAGE PIPING CONNECTION TO THE EXISTING. THE CONTRACTOR SHALL MAKE THE NECESSARY PIPING MODIFICATIONS REQUIRED TO ACCOMMODATE THE CONNECTIONS.

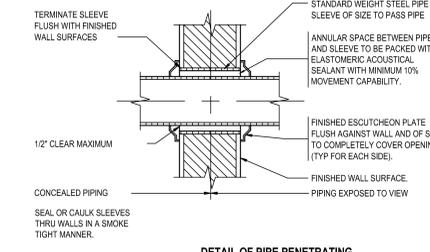
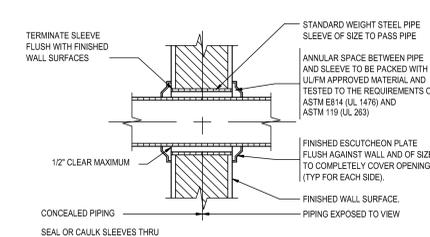
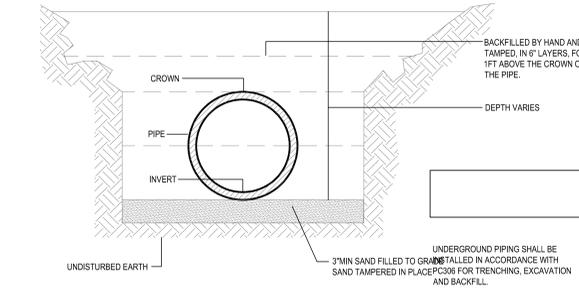
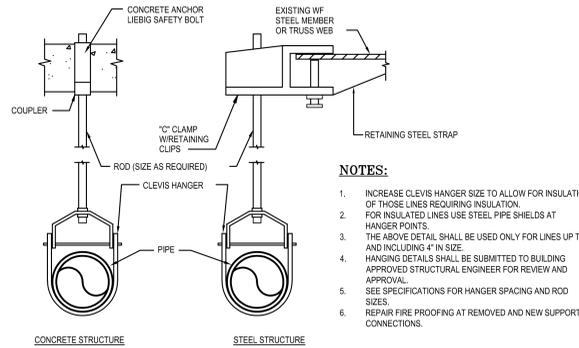
**REMOVAL NOTES**

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
- VERIFY ALL GOVERNING DIMENSIONS, PIPE SIZES AND LOCATION OF THE PIPING AND EQUIPMENT TO BE REMOVED.
- NOTIFY COLUMBIA UNIVERSITY AT LEAST 48 HOURS BEFORE DEMOLITION WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES. RISER SHUT DOWNS SHALL BE PERFORMED AT DESIGNATED TIMES UNDER COLUMBIA UNIVERSITY'S SUPERVISION AND ONLY WITH APPROVAL.
- ALL FIXTURES, EQUIPMENT, PIPING, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, RELOCATED, TURNED OVER TO THE TENANT OR SALVAGED AS DIRECTED BY THE ARCHITECT.
- UPON COMPLETION OF ALL NEW WORK NO ABANDONED PIPING SHALL REMAIN.
- THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
- LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED AT THE SITE.
- NO REMOVED EXISTING PIPING FITTINGS, VALVES, FIXTURES, ETC. SHALL BE REUSED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING HEIGHTS.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL FROM THE PREMISES OF ALL DEBRIS RESULTING FROM PLUMBING WORK.

INDEX OF DRAWING	
P-001.00	PLUMBING NOTES, SYMBOLS, SCHEDULES, DETAILS & RISER DIAGRAM
P-002.00	PLUMBING SPECIFICATIONS
P-101.00	PLUMBING DEMOLITION PLAN
P-201.00	PLUMBING PLANS

PLUMBING SYMBOLS & ABBREVIATIONS			
CLG	CEILING		EXISTING COLD WATER PIPING TO REMAIN
CW	COLD WATER		EXISTING HOT WATER PIPING TO REMAIN
DN	DOWN		EXISTING HOT WATER RETURN PIPING TO REMAIN
DR	DRAIN		EXISTING VENT PIPING TO REMAIN
FD	FLOOR DRAIN		EXISTING DRAINAGE PIPING TO REMAIN (W, L OR S)
FT	FOOT, FEET		EXISTING PIPING TO BE REMOVED
FU	FIXTURE UNIT		COLD WATER PIPING (CW)
HW	HOT WATER		HOT WATER PIPING (HW)
IW	INDIRECT WASTE		HOT WATER RETURN PIPING (HWR)
LAV	LAVATORY		DRAINAGE PIPING ABOVE GROUND
MS	MOP SINK		SANITARY (SAN)
NTS	NOT TO SCALE		VENT PIPING (V)
PG	PRESSURE GAUGE		HEAT TRACED PIPING
PLBG	PLUMBING		DIRECTION OF FLOW
PS	PANTRY SINK		PIPE-UP UNLESS OTHERWISE NOTED
S	SOIL		PIPE DROP UNLESS OTHERWISE NOTED
SA	SHOCK ABSORBER		DROP OR RISE
SAN	SANITARY		TOP CONNECTION
SF	SQUARE FOOT (FEET)		BOTTOM CONNECTION
SH	SHOWER		VALVED GAPPED OUTLET
SPECS.	SPECIFICATIONS		NEW CONNECTION
SQ.FT.	SQUARE FOOT (FEET)		SANITARY/WATER RISER DESIGNATION
SS	SERVICE SINK		TEMPERATURE
STD	STANDARD		POINT OF NEW CONNECTION
TEMP	TEMPERATURE		POINT OF DISCONNECTION
TYP	TYPICAL		AREA DRAIN, FLOOR DRAIN, ROOF DRAIN (AD, FD, RD)
V	VENT		CLEANOUT (CO)
W	WASTE		CLEANOUT DECK PLATE (CODP)
WC	WATER CLOSET		TRAP
WD	WATER DISPENSER		GATE VALVE (GV)
CM	COFFEE MAKER		BALL VALVE (BV)
VA	VACUUM		CHECK VALVE
			O.S.&Y. VALVE
			EXISTING BALL VALVE
			VACUUM BREAKER (VB)
			WATER HAMMER ARRESTOR
			CONCENTRIC REDUCER
			TEMPERATURE & PRESSURE RELIEF VALVE (TP)
			PRESSURE GAUGE (PG)
			PIPE SLEEVE

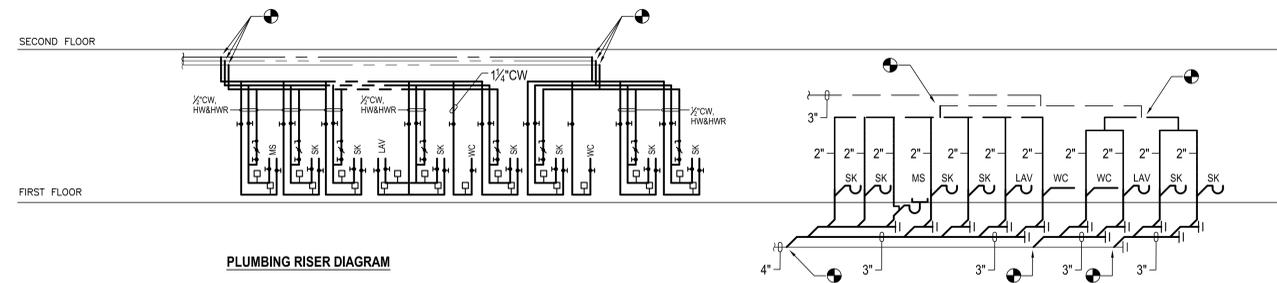
NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED ARE NECESSARILY WITHIN THE SCOPE OF WORK.



PLUMBING FIXTURE CONNECTION SCHEDULE						
CODE	DESCRIPTION	W	V	CW	HW	REMARKS
P-1	WATER CLOSET	4"	2"	1-1/4"	-	REFER TO ARCHITECTURAL DRAWINGS FOR FAUCET AND SINK MODEL NUMBER
P-2	LAVATORY	2"	2"	3/4"	3/4"	REFER TO ARCHITECTURAL DRAWINGS FOR FAUCET AND SINK MODEL NUMBER
P-3	LAB SINK UNDERCOUNTER	2"	2"	3/4"	3/4"	REFER TO ARCHITECTURAL DRAWINGS FOR FAUCET AND SINK MODEL NUMBER
FD-1	FLOOR DRAIN	3"	2"	-	-	JR SMITH MODEL# 2210

NOTE: SEE PLUMBING SPECIFICATION FOR MORE FIXTURE & EQUIPMENT INFORMATION.

MISCELLANEOUS EQUIPMENT SCHEDULE						
NO.	EQUIPMENT	NO. REQUIRED	LOCATION	CAPACITIES	MODEL NO.	REMARKS
TMV-1	THERMOSTATIC MIXING VALVE	2	-	3 GPM MAXIMUM 0.25 GPM MINIMUM 1 PSIG DROP	SIMILAR TO POWERS MODEL NO. LFE480	LEAD FREE



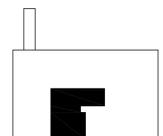
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

DOB NOW JOB#

**GENERAL NOTES**

**KEY NOTES**

**KEY PLAN**



**COLUMBIA** COLUMBIA UNIVERSITY IRVING MEDICAL CENTER  
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United States  
Tel 610.565.4607

Date Description

Seal / Signature

Project Name

**INTERVENTIONAL RADIOLOGY - TARRYTOWN**

Project Number

12491.000

Description

PLUMBING NOTES, SCHEDULE, DETAILS & RISER DIAGRAMS

Scale

AS NOTED

**P-001.00**



