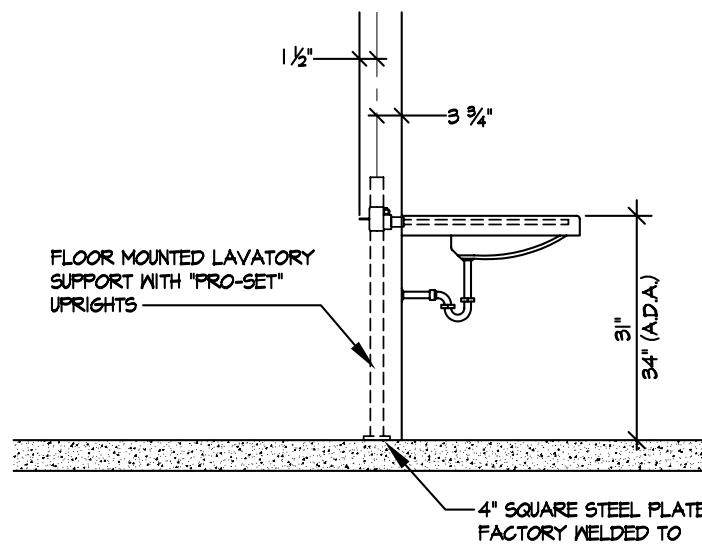
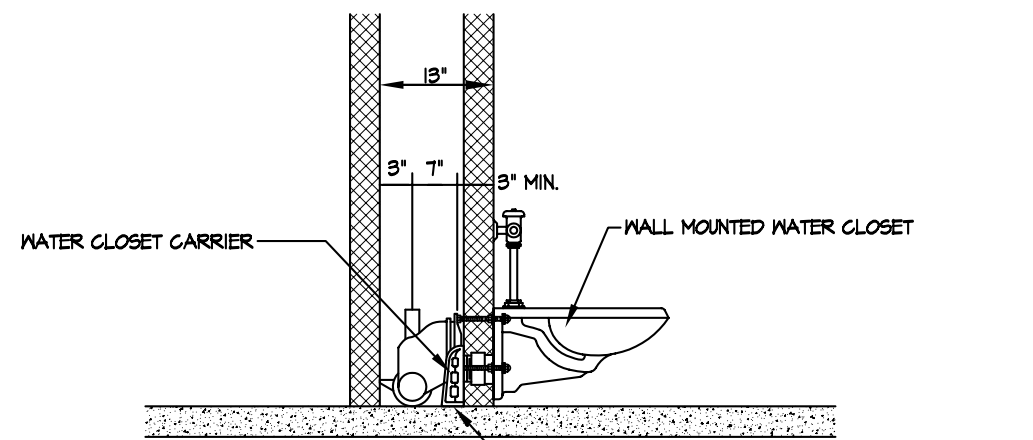


PLUMBING FIXTURE SCHEDULE												NOTE: ALL FIXTURE APPURTENANCES SHALL BE SUPPLIED BY FIXTURE MANUFACTURER.
FIXTURE TYPE	FIXTURE SYMBOL	MANUFACTURE NAME AND MODEL NUMBER		CONNECTION SIZE				FIXTURE LOAD			REMARKS	
		BASIC FIXTURE	SEAT	FAUCET / FLUSH VALVE	SOIL OR WASTE	VENT	C.W.	H.W.	S.F.U. C.W.	S.F.U. H.W.		D.F.U.
A.D.A. COMPLIANT WATER CLOSET	P-103	AMERICAN STANDARD #25291	8005 #1525N1	SLON OPTIMA III-580, TOP SPRAY, 1/8 GPM	4"	2"	1"	-	5.0	-	4.0	VITREOUS CHINA, COLOR - WHITE, WALL MOUNTED. PROVIDE "WATTS" 15CA-122 BARIATRIC CLOSET SUPPORT RATED FOR 1000 LBS.
A.D.A. COMPLIANT LAVATORY	P-410	AMERICAN STANDARD LICENSE #255512	NOT APPLICABLE	SLON EBF-601-4-BDT-EIT-1021-A OPTIMA SERIES WITH EIT-460-A GRID STRAINER	1 1/2"	1 1/4"	1/2"	1/2"	0.60	0.60	1.0	PROVIDE MCGUIRE SUPPLIES, STOPS, TRUEBRO LAYSHIELD.
SINK	P-528	ELKAY # LR2222	NOT APPLICABLE	SLON EBF-750-S-BDT-6PP-6-EIT-661 OPTIMA SERIES	2"	2"	1/2"	1/2"	1.50	1.50	2.0	1 3/4" DEEP STAINLESS STEEL, SINGLE COMPARTMENT SINK, FULLY UNDERCOATED, FURNISH FAUCET WITH 500GPM SPOT, LAMINAR FLOW OUTLET, AND GRID STRAINER. COORDINATE RECEPTACLE LOCATION WITH ELECTRICAL CONTRACTOR.

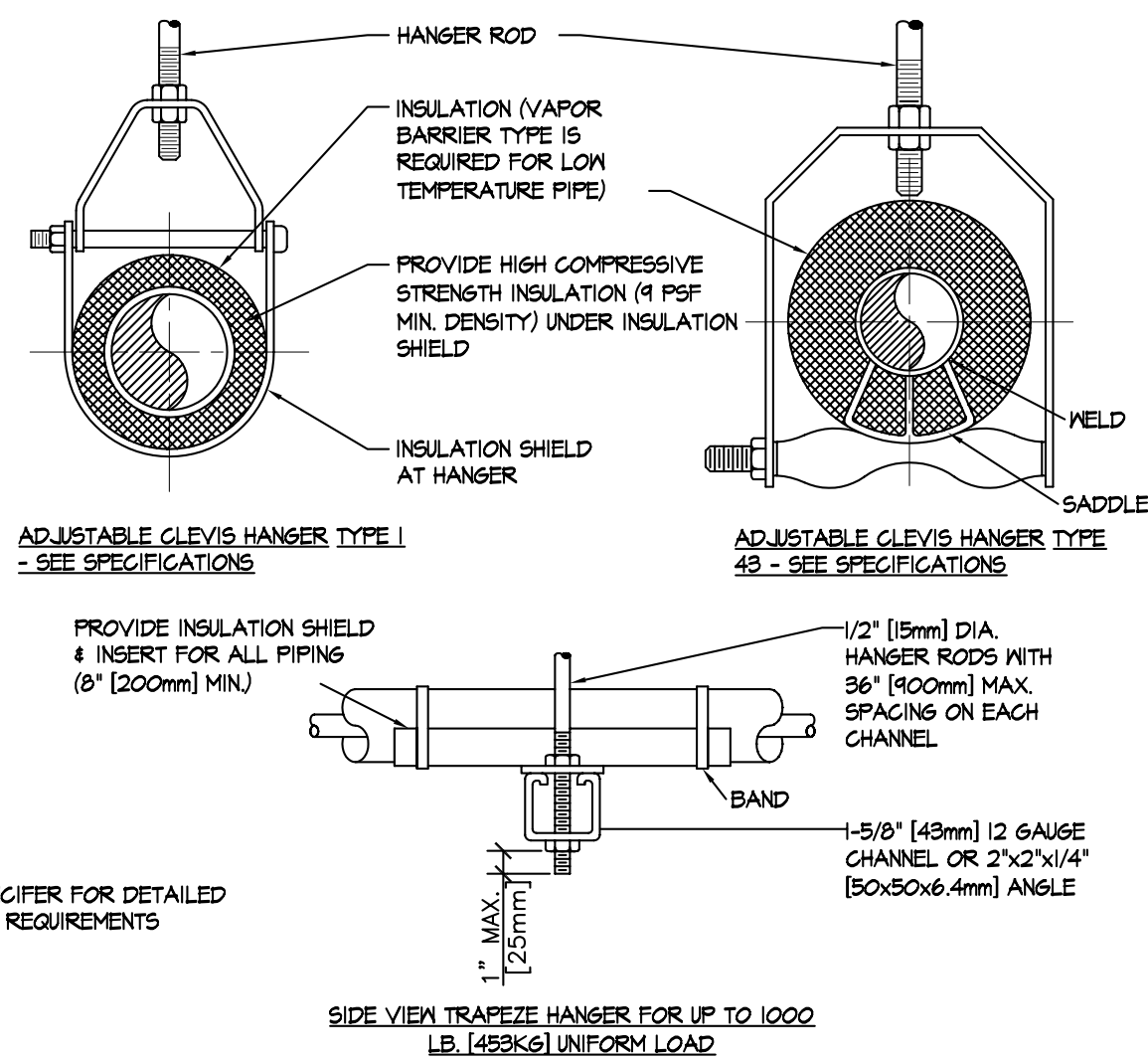
NOTE: PROVIDE SPRING LOADED CHECK VALVES FOR ALL LAVATORY AND SINK HOT AND COLD WATER PIPING. LOCATE CHECK VALVE DOWNSTREAM OF STOP VALVES.



1 Lavatory Support  
Not To Scale



2 Water Closet Mounting Detail  
Not To Scale

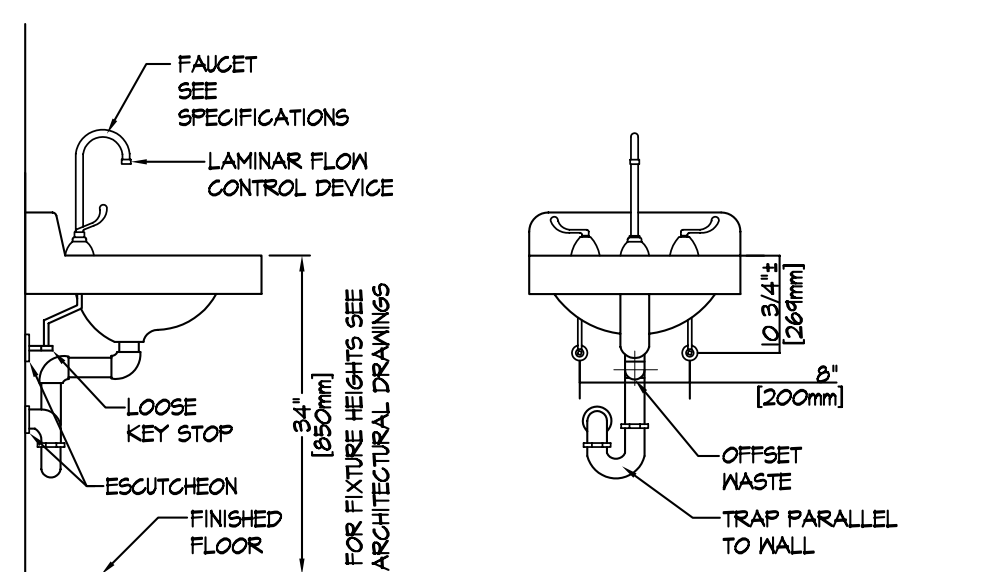


MAXIMUM PIPE/TUBING SUPPORT SPACING																			
NOM. SIZE	IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
PIPE	FT.	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]
TUBING	FT.	[1500]	[1800]	[2100]	[2400]	[2400]	[2700]	[3000]	[3700]	[4000]	[4100]	[4900]	-	-	-	-	-	-	-

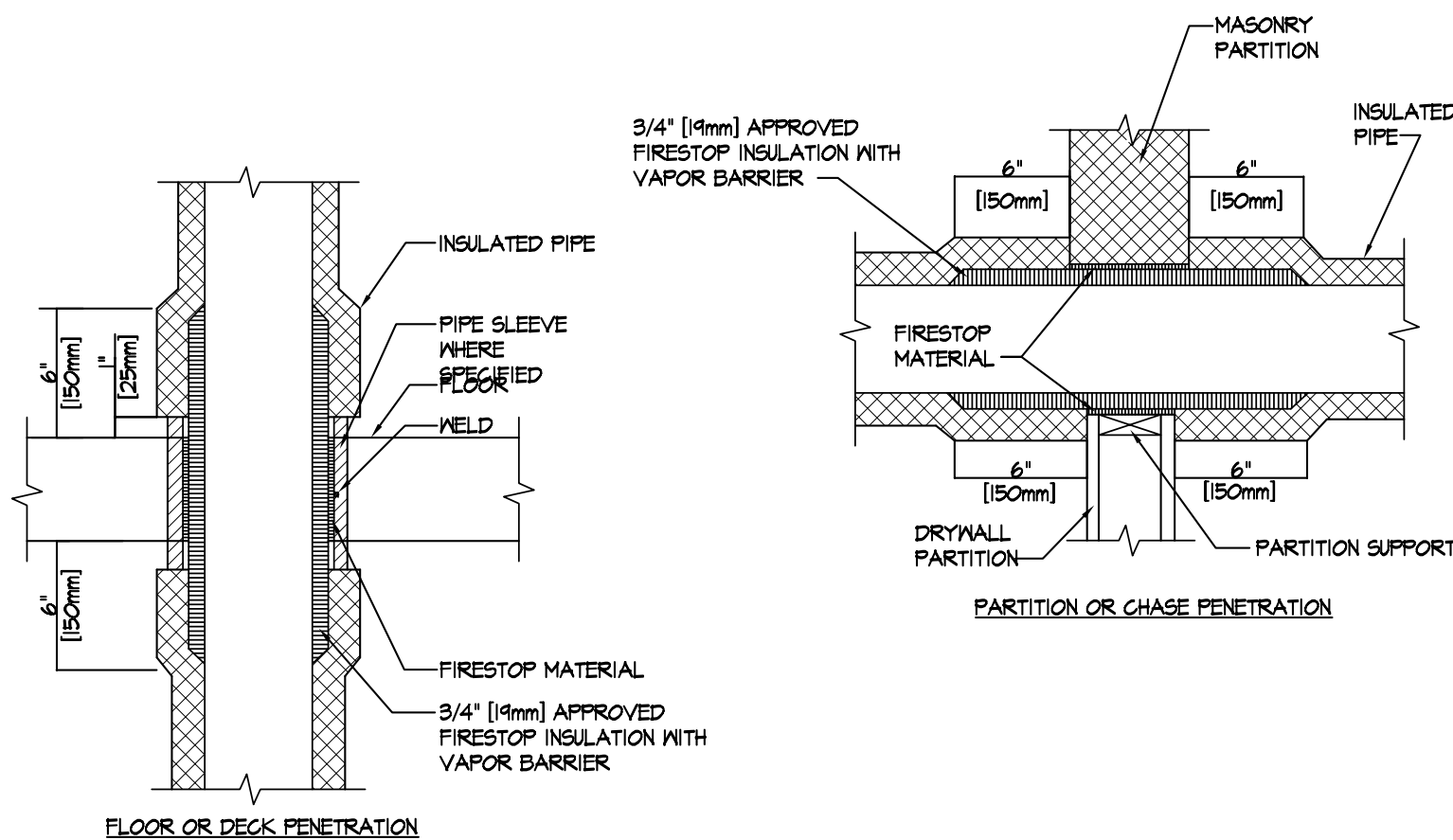
NOTE: FOR TRAPEZE HANGER TIE SPACING OF SMALLEST SIZE ON TRAPEZE.

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

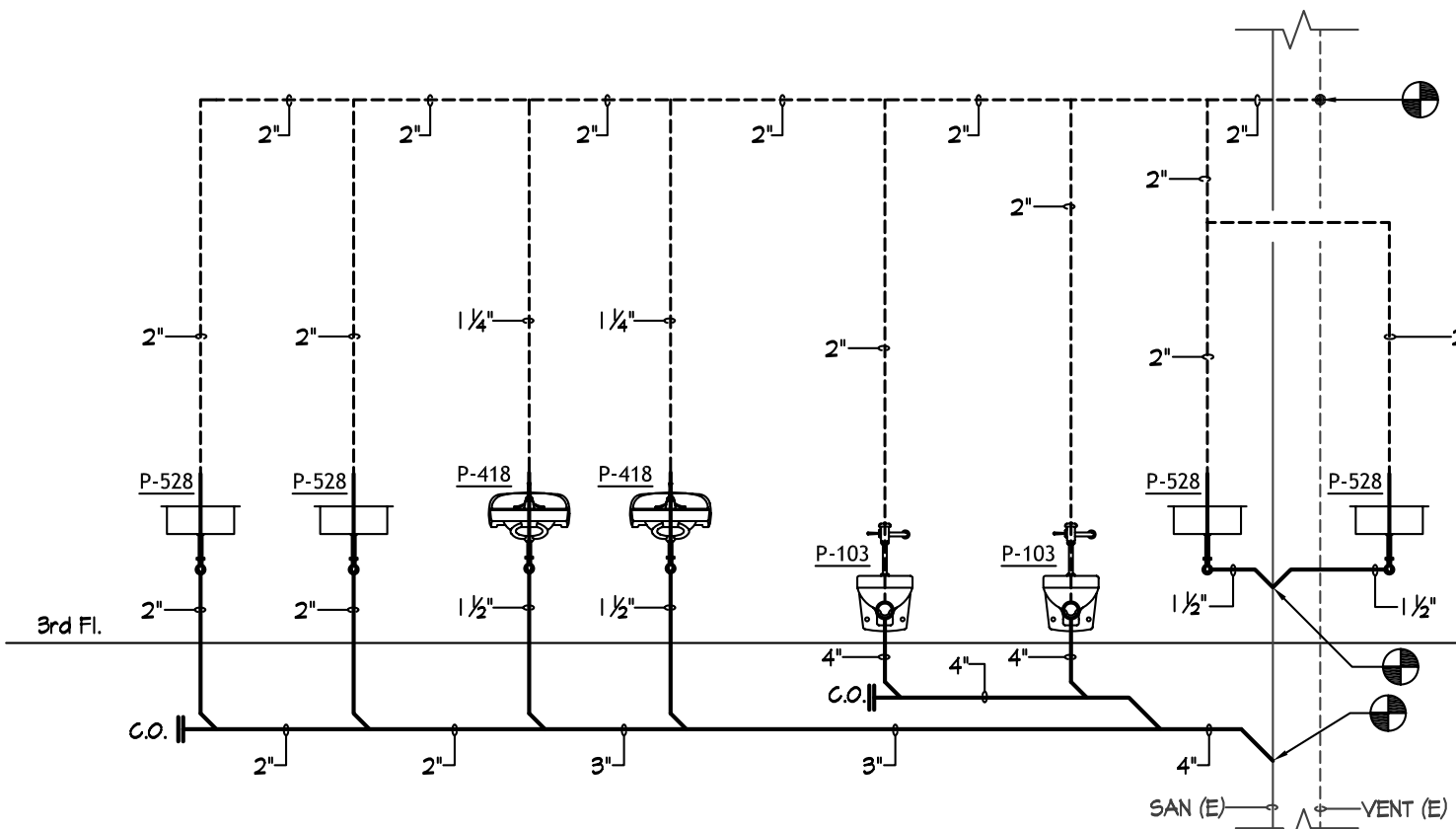
3 Pipe Hanger Detail  
Not To Scale



4 Typical Accessible Lavatory Installation  
Not To Scale



5 Domestic Water Riser Diagram (P-55A)  
Not To Scale



6 Sanitary Riser Diagram (P-55A)  
Not To Scale

7 Pipe Penetration of Smoke/Fire Barriers  
Not To Scale

NOTE:  
1. APPLICABLE TO PENETRATIONS OF ALL FIRE RATED MEMBRANES, IN ACCORDANCE WITH NFPA 101. REFER TO SPECIFICATIONS SECTION 07 84 00, FIRE STOPPING SYSTEMS. PENETRATION MUST BE SEALED TO PROVIDE A 2-HOUR RATING.

PLUMBING SYMBOLS AND ABBREVIATIONS		
SYMBOL	ABBREVIATION	SERVICE
—	K	SANITARY SEWER, SOIL & WASTE PIPING
—	K	SANITARY SEWER SOIL & WASTE PIPING BELOW FLOOR
—	V	SANITARY VENT PIPING
—	S	NATURAL GAS PIPING
—	GW	DOMESTIC GOLD WATER PIPING
—	HW	DOMESTIC HOT WATER PIPING
—	HR	DOMESTIC HOT WATER REGR. PIPING
—	U	UNION
—	—	PIPE TURNING DOWN
—	—	PIPE TURNING UP
—	—	8-PIECE BALL VALVE
—	GF	FLOOR CLEAN OUT WITH DECK PLATE
—	GOB	CLEAN OUT BASE OF RISE
—	GOH	WALL CLEAN OUT
—	GTE	CONNECT TO EXISTING
—	V	VENT
—	K	WASTE
—	S	SANITARY

NOTE: NOT ALL SYMBOLS SHOWN ABOVE APPEAR ON THE DRAWING.

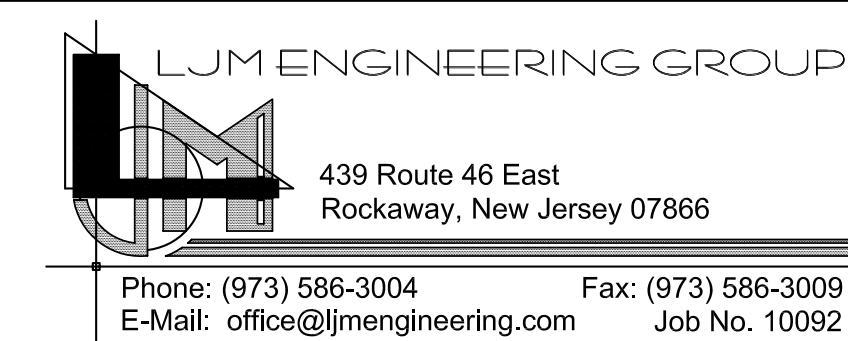
## PLUMBING GENERAL NOTES:

- CONTRACTOR SHALL PERFORM ALL PLUMBING IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL PLUMBING CODE, ALL FEDERAL, STATE, LOCAL RULES, LAWS, REGULATIONS, AND VETERANS AFFAIRS (VA) SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, CORE DRILLING, ETC., REQUIRED FOR THE INSTALLATION OF ALL NEW PIPING.
- CONTRACTOR SHALL REFER TO SPECIFICATION SECTIONS 221000, 221800 & 23125 FOR PIPING MATERIALS.
- CONTRACTOR SHALL INSTALL 1" COPPER, DRAWN, FOR ALL DOMESTIC WATER LINES INSTALLED AS PART OF THIS PROJECT, UNLESS SPECIFICALLY DESIGNATED ELSEWHERE IN THE PLANS, SPECIFICATIONS, OR BY THE CONTRACTING OFFICE.
- CONTRACTOR SHALL UTILIZE BALL VALVES FOR ALL NEW PLUMBING VALVES.
- CONTRACTOR SHALL SOLDER USING LEAD FREE SOLDER ONLY.
- SANITARY WASTE AND VENT PIPING SHALL BE HUB AND SPIGOT.
- CONTRACTOR SHALL CORE DRILL ANY OPENING THRU CONCRETE WITH DIAMOND CORE DRILL. CONTRACTOR SHALL SUPPLY, PROVIDE AND USE APPROPRIATE MET VACS DROP CLOTHES, OR ANY DEVICE TO PROTECT GOVERNMENT PROPERTY DURING THIS OPERATION. THE CONTRACTOR SHALL BE FURTHER ADVISED THAT THIS PROTECTION IS EXTENDED TO THE FLOOR BELOW.
- CONTRACTOR SHALL INSTALL SLEEVES (BLACK IRON) ON ALL CONCRETE OPENINGS. THIS SLEEVE SHALL BE WIDE ENOUGH SUCH THAT INSULATION WILL BE CONTINUOUS THRU THE SLEEVE.
- CONTRACTOR SHALL INSULATE ALL DOMESTIC WATER PIPING, INCLUDING ALL FITTINGS WITH SPECIFIED INSULATION. ELBOWS, TEES, SHALL BE INSULATED WITH PLASTIC COVERS FILLED WITH FIBERGLASS INSULATION. JACKET SHALL BE ASL BANCED AND STAPLED EXCEPT AS OTHERWISE NOTED ON THE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL LABEL ALL PIPING TO INDICATE FLOW DIRECTION AND CONTENT.
- CONTRACTOR SHALL INSTALL 3-PIECE, FULL PORT, BALL VALVES FOR SHUTOFFS.
- CONTRACTOR SHALL NUMBER AND LABEL ALL VALVES INSTALLED AS PART OF THIS CONTRACT WITH BRASS TAGS. NUMBERS SHALL BE AS DESIGNATED BY THE PROJECT ENGINEER. CONTRACTOR SHALL SUBMIT TO THE PROJECT ENGINEER A TYPED LIST (A GOSTALLED AS PART OF THIS PROJECT. THIS LIST SHALL BE INCLUSIVE AND INCLUDE, AS A MINIMUM, THE FOLLOWING INFORMATION IN TABULAR FORM:  
VALVE MARK - LOCATION - SIZE - TYPE - MANUFACTURER - FUNCTION
- CONTRACTOR SHALL INSTALL ALL PIPING IN A NEAT, PROFESSIONAL MANNER, INDEPENDENTLY SUPPORTED FROM OTHER UTILITIES.
- CONTRACTOR SHALL USE EXPANSION BOLTS (DRILLED) ONLY WHEN ANCHORING INTO CONCRETE. USE OF EXPLOSIVE SHOTS ARE PROHIBITED WHEN ANCHORING INTO CONCRETE.
- CONTRACTOR SHALL SAW CUT ANY INTERIOR CONCRETE BEFORE REMOVING SAME.
- CONTRACTOR SHALL INSTALL LOOSE KEY STOPS ON ALL NEW FIXTURES, FURNISH PROJECT ENGINEER TWO KEYS FOR EACH FIXTURE.
- CONTRACTOR SHALL PRIOR TO THE INSTALLATION OF ANY FIXTURE, TRIM, CARRIER, SUBMIT FOR APPROVAL, MANUFACTURERS LITERATURE FOR ALL ITEMS.
- CONTRACTOR SHALL TEST, IN THE PRESENCE OF THE PROJECT ENGINEER, ALL PIPING AND SUBMIT TO THE PROJECT ENGINEER FOUR COPIES OF THE TESTING REPORT. TESTING SHALL BE AS INDICATED IN THE CONTRACT SPECIFICATIONS.
- CONTRACTOR SHALL SUPPLY AND INSTALL UNIONS ON ALL VALVES, GAUGES, THERMOMETERS, ETC. FOR EASY REMOVAL.
- CONTRACTOR SHALL INSTALL DIELECTRIC FITTINGS ON ALL DISSIMILAR METALS AND ON ALL FERROUS, NON-FERROUS PIPING.
- CONTRACTOR SHALL ADVISE THE PROJECT ENGINEER A MINIMUM OF ONE WEEK PRIOR TO THE SHUTOFF OF ANY PLUMBING SYSTEM. THE CONTRACTOR SHALL BE ADVISED THAT THE VETERANS AFFAIRS IS RESPONSIBLE FOR OPERATING ANY EXISTING UTILITY VALVE. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY FAILED VALVE AT NO ADDITIONAL COST TO THE GOVERNMENT, SHOULD THE CONTRACTOR EXERCISE VALVES WITHOUT PROPER AUTHORIZATION.
- CONTRACTOR SHALL OFFSET ANY RISERS ENCOUNTERED DURING DEMOLITION THAT ARE REQUIRED TO REMAIN ACTIVE TO NEAREST WALL AND CONCEAL ACCORDINGLY. AT NO ADDITIONAL COST TO THE GOVERNMENT.
- VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS.
- THE PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS AND/OR POTENTIAL PROBLEMS HE OBSERVES BEFORE CONTINUING WORK.
- DO NOT SCALE THE PLANS, SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, FIXTURES, WALL DIMENSIONS, ETC.
- ALL FIXTURES SHALL BE COMPLETE AND INCLUDE SUPPLIES, STOPS, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC. TRAPS FOR ALL LAVATORIES SHALL BE REMOVABLE.
- ALL VALVES, CLEAN OUTS, ETC., SHALL BE SO LOCATED AND INSTALLED TO PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIALS.
- ALL PIPING, APPARATUS, EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED, BRACED VERTICALLY AND HORIZONTALLY IN ACCORDANCE WITH APPLICABLE CODES AND AS REQUIRED TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.
- SANITARY, WASTE AND VENT PIPING SHALL BE HUB AND SPIGOT, SERVICE WEIGHT CAST IRON SOIL PIPE, (ASTM A 14) WITH HUB AND SPIGOT, SERVICE WEIGHT CAST IRON SOIL PIPE FITTINGS (ASTM A 14) OR HUBLESS SERVICE WEIGHT CAST IRON SOIL PIPE FITTINGS (GOST) SOIL PIPE APPROVAL BY THE BUILDING OFFICE.
- ALL SANITARY OR WASTE PIPING 3" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM. ALL SANITARY OR WASTE PIPING 4" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.
- EXPOSED WASTE PIPING IN REST ROOM AREAS SHALL BE CHROME PLATED BRASS, WITH MATCHING STOPS AND ESCUTCHEONS.
- COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, SATISFACTORY AND PERMANENT ELECTROLYTIC ISOLATION MATERIAL SHALL PREVENT CONTACT WITH OTHER METALS.
- COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT WITH ALL MASONRY.
- WHERE COPPER IS SLEEVED THROUGH MASONRY, COPPER OR RED BRASS SLEEVES SHALL BE USED.
- WHERE COPPER MUST BE CONCEALED IN OR AGAINST MASONRY PARTITIONS, CONTACT SHALL BE PREVENTED BY COATING THE COPPER HEAVILY WITH ASPHALTIC DOWEL AND 5# ASPHALT SATURATED FELT BETWEEN THE PIPE AND MASONRY PARTITION.
- WATER PIPING SHALL NOT BE INSTALLED IN AREAS SUBJECT TO FREEZING TEMPERATURES.
- WATER PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON CONDITIONED SIDE OF THE WALL INSULATION.
- PROVIDE WATER HAMMER ARRESTORS AT EACH FIXTURE, OR GROUP OF FIXTURES.
- PROVIDE DRAIN VALVES AT ALL LOW POINTS OF DOMESTIC WATER PIPING SYSTEMS FOR COMPLETE DRAINAGE AND INDICATE LOCATION OF SAME ON RECORD DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL ISOLATION VALVES ON ALL DOMESTIC WATER LINES AS NECESSARY TO ZONE SYSTEM AND MAINTAIN WATER SERVICE THROUGHOUT BUILDING AS WORK PROGRESSES.
- ALL PIPING SHALL BE INSPECTED BY PROJECT ENGINEER PRIOR TO CONCEALMENT, FAILURE TO DO SO WILL REQUIRE CONTRACTOR TO OPEN WALL AND CLOSE UP SAME AFTER INSPECTION AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL SEAL ALL OPENINGS CAUSED BY PIPING REMOVAL TO SATISFACTION OF PROJECT ENGINEER THE SAME DAY AS REMOVAL BEFORE CONTRACTOR LEAVES SITE.
- CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH ASBESTOS ABATEMENT CONTRACTOR. RE-INSULATE ALL DOMESTIC WATER PIPING, STORM LEADERS, FITTINGS, ETC. WHERE INSULATION IS REMOVED DURING ABATEMENT. REFER TO INSULATION SECTION OF SPECIFICATIONS FOR REQUIREMENTS.

All items that require access, such as for operating, cleaning, servicing, maintenance, and calibration, shall be easily and safely accessible by persons standing at floor level, or standing on permanent platforms, without the use of portable ladders. Examples of these items include, but are not limited to: all types of valves, filters and strainers, transmitters, control devices.

100% SET/ISSUE	07-14-2011
100% SET/ISSUE	08-13-2011
100% SET/ISSUE FOR REVIEW	05-27-2011
REVISED 30% SUBMISSION	03-04-2011
REVISED SIGN OFF	02-24-2011
30% REVIEW SET	11-11-2010
SCHEME 1, 2 AND 3	09-11-2010
EXISTING CONDITIONS	09-01-2010
Revisions:	Date

## CONSULTANTS:



## ARCHITECT:

**Lothrop associates<sup>LLP</sup> architects**  
200 SUMMIT LAKE DRIVE, VALHALLA, NEW YORK 914-741-1115

Drawing Title	THIRD FLOOR - EAST PLUMBING NOTES & DETAILS	
Approved: Project Director		

Project Title	RADIOLOGY - CT AT BROOKLYN CAMPUS NEW YORK HARBOR HEALTH CARE SYSTEM	
Project Number	630A4-CSI-103	
Building Number	1	
Location	BROOKLYN, NY	
L/A PROJECT #	1284-00	Checked LJM
Date	11-11-2010	Drawn BW
Drawing Number	PX 101	
Dwg.	19 of 45	

**Facilities  
Management  
Services**

