

C:\Users\cmuratore\appdata\local\temp\cmuratore - 242527-01-01 - Plumbing General Notes and Schedule.dwg Jan 13, 2025 - 10:28am by CMuratore

LEGEND	
SYMBOL	DESCRIPTION
	PIPING UP
	PIPING DOWN
	PIPING RISE OR DROP
	BRANCH-TOP CONNECTION
	BRANCH-BOTTOM CONNECTION
	REDUCER
	CLEANOUT
	FLOOR CLEANOUT
	CAPPED PIPE
	METER
	FLOOR DRAIN
	AQUATSTAT
	PUMP
	STRAINER
	UNION
	THERMOSTATIC MIXING VALVE
	BALANCING VALVE (BLV)
	GLOBE VALVE (GLV)
	CHECK VALVE (CV)
	GAS COCK, GAS STOP
	BALL VALVE (BV)
	BUTTERFLY VALVE (BFV)
	SOLENOID VALVE
	PRESSURE-REDUCING VALVE (PRV)
	GATE VALVE (GV)
	PRESSURE-RELIEF VALVE (RV)
	BACKFLOW PREVENTER
	FROST FREE HOSE BIBB
	HOSE BIBB
	RECESSED-BOX HOSE BIBB OR WALL HYDRANT
	EXPANSION JOINT
	WATER HAMMER ARRESTOR
	VALVE IN RISER
	WALL CLEANOUT (WCO)
	PITCH DOWN OR UP IN DIRECTION OF ARROW
	COLD WATER (CW)
	TEMPERED WATER (TW)
	HOT WATER (HW)
	TEMPERED WATER RETURN (TWR)
	HOT WATER RETURN (HWR)
	WASTE PIPING (W.S.O.W)
	BELOW SLAB WASTE PIPING
	VENT PIPING (V)
	GAS PIPING (G)
	TO BE REMOVED
	POINT OF CONNECTION
	POINT OF DISCONNECTION

ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CLG	CEILING
CO	CLEAN OUT
COOP	CLEAN OUT DECK PLATE
COWP	CLEAN OUT WALL PLATE
CW	COLD WATER
(D)	DEMOLISH
DCV	DOUBLE CHECK VALVE DEVICE
DEG	° FAHRENHEIT
DIA	DIAMETER
DN	DOWN
(E)	EXISTING
EA	EACH
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
G	GAS
'GC'	GENERAL CONSTRUCTION CONTRACTOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
IN.	INCHES
N. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)
KW	KILOWATTS
LBS	POUNDS
M	METER
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
OD	OUTER DIAMETER
(P)	PROPOSED
P	PLUMBING CONTRACTOR
PD	PRESSURE DROP
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SAN / S	SANITARY
ST	STORM DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
TW	TEMPERED WATER (110°F)
TWR	TEMPERED WATER RETURN
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE

- ### GENERAL PLUMBING NOTES
- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR. REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
 - THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE SUBMISSION OF BIDS.
 - PERFORM ALL WORK IN ACCORDANCE WITH THE 2020 PLUMBING CODE OF NEW YORK STATE (PONY), MECHANICAL (MCNYS), ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCNYS) CODE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
 - APPLY FOR AND SECURE ALL REQUIRED PERMITS AND INSPECTIONS AND PAY ALL COSTS FOR THE SAME.
 - DO NOT SCALE DRAWINGS. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE.
 - COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURERS REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTORS INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTORS FABRICATED ITEMS TO ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY EQUIPMENT.
 - FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
 - PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR EQUIPMENT IS REQUIRED.
 - INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS.
 - LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER CERTIFIED ACCURACY.
 - COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS. REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.
 - COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.
 - COMPLETE ALL PRESSURE TESTS BEFORE ANY PLUMBING EQUIPMENT, OR PIPING INSULATION IS APPLIED.
 - MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
 - PROVIDE CONCRETE PADS A MINIMUM OF 4 INCHES' HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4 INCHES BEYOND THE EQUIPMENT ON ALL SIDES.
 - INSTALL PIPING, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ACCESSIBLE FIXTURES. MOUNT ALL SUCH FIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
 - PROVIDE ACCESS DOORS IN WALLS, PARTITIONS, AND CEILINGS AS REQUIRED TO MAKE VALVES, WATER HAMMER ARRESTERS, ETC. READILY ACCESSIBLE.
 - ARRANGE FOR, COORDINATE, AND MAKE CONNECTION TO ALL SERVICES PROVIDED BY OTHERS. CONFORM TO ALL REQUIREMENTS APPLICABLE TO CONNECTIONS IMPOSED BY UTILITY COMPANIES AND AUTHORITIES HAVING JURISDICTION.
 - INSTALL FIXTURES AND EQUIPMENT WITH VALVES, UNIONS, ETC. TO ALLOW FOR EASE OF SERVICE AND/OR REMOVAL.
 - PROVIDE A CLEANOUT AT THE BASE OF WASTE AND VENT STACKS WITH A FINISHED WALL PLATE IN FINISHED WALLS.
 - FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE AND PRESSURE RELIEF VALVE IN ACCORDANCE WITH THE PLUMBING CODE OF NEW YORK STATE. ON ALL INCOMING DOMESTIC WATER SYSTEMS IN EXCESS OF 80 P.S.I.G.
 - SLOPE ALL VENT PIPING TO DRAIN BACK TO THE DRAINAGE SYSTEM.
 - FLUSH AND DISINFECT ALL DOMESTIC POTABLE WATER PIPING AND TEST THE WATER IN ACCORDANCE WITH THE PLUMBING CODE OF NEW YORK STATE. PROVIDE CERTIFICATE OF PERFORMANCE AND LABORATORY TEST REPORT TO LOCAL AUTHORITIES HAVING JURISDICTION AND OBTAIN THEIR APPROVAL.
 - PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING FIXTURE VALVE LOCATIONS.
 - ALL PIPING, VALVES AND FITTINGS USED FOR POTABLE WATER SHALL BE NSF 61/372 COMPLIANT AND BE TESTED FOR LOW LEAD.
 - ANY PENETRATIONS THROUGH AIR BARRIER SHALL BE SEALED AS PER 2020 BCNYS AND COMMERCIAL PROVISIONS.
 - ALL PIPING IN PLENUM SPACES SHALL BE CAST IRON FOR SANITARY, STORM, VENT SYSTEMS, AND COPPER PIPING FOR DOMESTIC SYSTEMS, AND STEEL PIPING FOR GAS SYSTEMS. NO PLASTIC PIPING ALLOWED.
 - HOT WATER TEMPERATURE FOR ALL PUBLIC HAND WASHING FIXTURES SHALL BE TEMPERED TO A MAXIMUM TEMPERATURE OF 110 DEGREES F.
 - ALL FIXTURES SHALL MEET THE WATER CONSERVATION REQUIREMENTS LISTED IN THE TABLE 604.4 OF THE 2020 PLUMBING CODE OF NEW YORK STATE.
 - ALL FIXTURES THAT HAS THE ABILITY TO HAVE A HOSE CONNECTED TO IT, OR DIRECT CONNECTED FIXTURES, SHALL HAVE A BACKFLOW PREVENTION DEVICE ON THE FAUCET, VACUUM BREAKER (ASSE 1082 AND ASME A112.21.3).
 - ALL SANITARY FITTINGS SHALL BE "WYE" TYPE AND SHALL FOLLOW THE DIRECTION OF FLOW.
 - IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN DESIGN PLANS, RISER DIAGRAMS, AND/OR SPECIFICATIONS CONCERNING PIPE SIZES, FIXTURES, AND/OR EQUIPMENT, THE MOST STRINGENT REQUIREMENTS SHALL BE APPLIED TO THE PROJECT.
 - FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, CONDUIT, ETC.
 - MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
 - CORE DRILL ALL PENETRATIONS THROUGH CONCRETE FLOORS, WALLS, AND FOOTINGS.
 - INSTALL LINK SEAL TYPE PROTECTION FOR WATER RESISTANT SEALS AT ALL SLAB AND BELOW GROUND WALL FOOTING PENETRATIONS.
 - COVER ALL COPPER PIPING BELOW SLAB WITH "ARMAFLEX" TYPE INSULATION.

PLUMBING FIXTURE SCHEDULE

FIXTURE TAG	DESCRIPTION	BASIS OF DESIGN						MINIMUM CONNECTION SIZES						SPECIFICATION	REMARKS	
		MAKE	MODEL	TRIM / FAUCET				COLD WATER		HOT WATER		DRAIN				VENT
				MAKE	MODEL	OPERATION	MAX FLOW	SIZE	WFU	SIZE	WFU	SIZE	DFU			
LAV-1	LAVATORY - WALL MOUNT - SENSOR FAUCET	SLOAN	AD-81000 RUSH STREET	SLOAN	EEF-415	SENSOR BATTERY	0.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	SINK: SLOANSTONE RUSH STREET, WALL MOUNTED SQUARE FRONT SINK, 30" W X 34" H, ADA COMPLIANT FAUCET: DECK MOUNTED, ADA COMPLIANT, INTEGRATED SIDE MIXER, VANDAL RESISTANT, CHROME, WITH 0.5 GPM AERATOR. COMPLIES WITH ASME A117.1 AND NSF 372. INCLUDE PK000 PAC PLUG-IN AC POWER KIT.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP. PROVIDE CARRIER SUPPORT WATTS WCA-411 OR APPROVED EQUAL. HOT WATER SHALL NOT EXCEED 105°F. INSULATE ALL EXPOSED DRAIN AND SUPPLY PIPING WITH TUBULO LAVIQUARD. PROVIDE EHD-420 CP-HEPA HAND DRYER AND ESD-100 PLASMA DISINFECTOR.
LAV-2	LAVATORY - WALL MOUNT - SENSOR FAUCET	KOHLER	KINGSTON K-2005	AMERICAN STANDARD	7500.170	MANUAL	0.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	SINK: VITREOUS CHINA, ADA HEIGHT, WALL MOUNTED ROUND FRONT SINK, 19" W X 19" H, ADA COMPLIANT FAUCET: DECK MOUNTED, VANDAL RESISTANT, CHROME, WITH 1.5 GPM AERATOR. COMPLIES WITH ASME A117.1 AND NSF 372. INCLUDE BRADLEY S19-200B FAUCET MOUNTED EYEWASH.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP. PROVIDE CARRIER SUPPORT WATTS WCA-411 OR APPROVED EQUAL. HOT WATER SHALL NOT EXCEED 105°F.
WC-1	WATER CLOSET - WALL MOUNTED - TOP SPUD	SLOAN	WETS-2450.1201	SLOAN	SOLIS 8111	SENSOR BATTERY	1.28 GPM	1"	10	---	---	3"	4	1-1/2"	TOILET: VITREOUS CHINA, ELONGATED, ADA HEIGHT, ASME A112.19.2. PROVIDE TOILET SEAT CHURCH 295C7 OR APPROVED EQUAL. MINIMUM OF 25 PSI. FLUSH VALVE: CONCEALED SENSOR FLUSHMETER VALVE, 1.28 GPF, ROUGH BRASS FINISH, FIXTURE CONNECTION REAR SPUD, SOLAR BATTERY CHARGER, TRUE MECHANICAL OVERRIDE, SMALL WALL BOX.	PROVIDE CARRIER SUPPORT WATTS WCA-411 OR APPROVED EQUAL. SEE PLANS FOR PIPE ROUTING AND FOR SPECIFIC CARRIER ORIENTATION. COORDINATE GRAB BAR HEIGHT WITH FLUSHVALVE.
WC-2	WATER CLOSET - FLOOR MOUNTED - FLOOR OUTLET - ADA COMPLIANT - TOP SPUD	SLOAN	ST-2029	SLOAN	SOLIS 8111	SENSOR BATTERY	1.28 GPF	1"	10	---	---	3"	4	1-1/2"	TOILET: VITREOUS CHINA, ELONGATED, ADA HEIGHT, ASME A112.19.2. PROVIDE TOILET SEAT CHURCH 295C7 OR APPROVED EQUAL. MINIMUM OF 25 PSI. FLUSH VALVE: CONCEALED SENSOR FLUSHMETER VALVE, 1.28 GPF, ROUGH BRASS FINISH, FIXTURE CONNECTION REAR SPUD, SOLAR BATTERY CHARGER, TRUE MECHANICAL OVERRIDE, SMALL WALL BOX.	COORDINATE GRAB BAR HEIGHT WITH FLUSH VALVE.
SK-1	ART ROOM TROUGH SINK - ADA	ELKAY	LK50-13037A	ADVANCE TABCO	ELKAY	LK940TS08T45	1.5 GPM	3/4"	1	3/4"	1	1/2"	2	1-1/2"	SINK: 3-DRAIN TROUGH SINK ON LEGS WITH BASIN DIMENSIONS 104"W X 26.5"L X 14"D. 14 GAUGE 304 STAINLESS STEEL GRID STRAINERS. SINK TO COMPLY WITH ASME A112.19.3. FAUCET: FOUR 8" O.C. BACK MOUNTED FAUCETS WITH 8" SWING SPOUTS AND 4" WRIST BLADE HANDLES.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES. PROVIDE SOLIDS INTERCEPTOR CT-1 BELOW SINK. SEE INTERCEPTORS SCHEDULE FOR MORE INFORMATION.
SK-2	SCIENCE ROOM - ADA	LEONARD PETERSON & COMPANY, INC	P362434-HC	ELKAY	LK406GN0474	MANUAL	1.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	SINK: DROP IN SINK, STAINLESS STEEL, ADA COMPLIANT, RECTANGULAR SINK, 36" X 24" X 24". FAUCET: DECK MOUNTED, VANDAL RESISTANT, CHROME, WITH 1.5 GPM AERATOR. COMPLIES WITH ASME A117.1 AND NSF 372.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES.
SK-3	SCIENCE ROOM SINK - INSTRUCTOR	LEONARD PETERSON & COMPANY, INC	E363034	ELKAY	LK406GN0474	MANUAL	1.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	SINK: DROP IN SINK, STAINLESS STEEL, ADA COMPLIANT, RECTANGULAR SINK, 36" X 30" X 24". FAUCET: DECK MOUNTED, VANDAL RESISTANT, CHROME, WITH 1.5 GPM AERATOR. COMPLIES WITH ASME A117.1 AND NSF 372.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES.
SK-4	SCIENCE ROOM SINK - INSTRUCTOR	-	-	ELKAY	LK406GN0474	MANUAL	1.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	SINK: PROVIDED BY OWNER FAUCET: DECK MOUNTED, VANDAL RESISTANT, CHROME, WITH 1.5 GPM AERATOR. COMPLIES WITH ASME A117.1 AND NSF 372.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES.
FD-1	FLOOR DRAIN	ZURN	ZK-415-BE	-	-	-	-	-	-	-	-	-	-	-	REMOVE THE GRAB BAR AND GRAB BAR PLANS FOR SITE.	

INTERCEPTORS

EQUIPMENT NO.	LOCATION	BASIS OF DESIGN INFORMATION							REMARKS
		FLUID	FLOW (GPM)	CAPACITY (LBS)	INLET AND OUTLET SIZE	MANUFACTURER	MODEL	NOMINAL DIMENSIONS	
CT-1	ART ROOMS	CLAY	35 GPM	-	2"	STRIEM	AA-2	24.5" DIA. X 23" H	UNIT TO BE FLOOR MOUNTED
AI-1	SCIENCE ROOM	ACID	-	5	1-1/2"	ZURN	Z9A-PHX	7" DIA. X 15" H	UNIT TO BE MOUNTED IN CASEWORK UNDER SINK

ENERGY NOTES

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE NOTES: STATEMENT OF COMPLIANCE:

TO THE BEST OF MY KNOWLEDGE, AND PERSONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK STATE ENERGY CONSERVATION CODE (ECCONYS).

- SERVICE WATER HEATING EQUIPMENT PERFORMANCE EFFICIENCY:
 - WATER HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2 IN THE 2020 ECCONYS (ECCONYS C404.2)
 - SERVICE WATER HEATING SHALL BE COMMISSIONED AND COMPLETED IN ACCORDANCE WITH SECTION C408.2 OF THE 2020 ECCONYS.
- TEMPERATURE CONTROL:
 - SERVICE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS ALLOWING A SETPOINT OF 110°F AND 90 °F FOR OTHER OCCUPANCIES. PUBLIC REST ROOM LAVATORIES SHALL HAVE A MAXIMUM OUTLET TEMPERATURE OF 110°F.
 - WHERE WATER HEATING EQUIPMENT SERVING NONCIRCULATING SYSTEMS IS NOT SUPPLIED WITH INTEGRAL HEAT TRAPS, HEAT TRAPS SHALL BE PROVIDED ON THE SUPPLY AND DISCHARGE PIPING. (ECCONYS C404.3)
- PIPE INSULATION:
 - 3.1. AUTOMATIC CIRCULATING HOT WATER SYSTEM PIPING SHALL BE INSULATED WITH 1 INCH OF INSULATION WITH A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH, OR THE INSULATION REQUIREMENTS, WHICHEVER IS GREATER. THE FIRST 8 FT OF PIPING IN NONCIRCULATING SYSTEMS WITH EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH, OR THE INSULATION REQUIREMENTS, WHICHEVER IS GREATER. (ECCONYS C404.5)
 - 3.2. ALL PIPING TO BE INSULATED WITH 0.21-0.28 CONDUCTIVITY
 - 3.3. COLD WATER PIPING - ALL SIZES - 1-INCH INSULATION, A.S. JACKET.
 - 3.4. STORM DRAINAGE PIPING ALL HORIZONTAL RUNS AND DRAIN BODY - MINIMUM 1-INCH INSULATION, A.S. JACKET.
 - 3.5. HOT WATER PIPING (140°F) AND TEMPERED WATER PIPING (110°F)
 - 3.5.1. PIPE SIZE: < 1" INSULATION: 1"
 - 3.5.2. PIPE SIZE: 1" TO < 1-1/2" INSULATION: 1"
 - 3.5.3. PIPE SIZE: 1-1/2 TO < 4" INSULATION: 1.5"
 - 3.5.4. PIPE SIZE: 4" TO < 8" INSULATION: 1.5"
- HOT WATER SYSTEM CONTROLS:
 - 3.1. CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE TURNED OFF EITHER AUTOMATICALLY OR MANUALLY WHEN THERE IS LIMITED HOT WATER DEMAND. READY ACCESS SHALL BE PROVIDED TO THE OPERATING CONTROLS. (ECCONYS C404.6)
- PIPE VOLUME AND MAXIMUM LENGTHS:
 - 3.1. PER SECTION OF C404.5.1 OF THE 2020 ECCONYS, ALL MAXIMUM PIPE LENGTHS FROM FIXTURES SHALL COMPLY WITH THE MAXIMUM PIPE LENGTHS ON THE CHART BELOW. CONTRACTOR TO ENSURE HOT WATER RETURN PIPING IS INSTALLED AS PER PLANS AND THAT THESE LENGTHS ARE MAINTAINED.

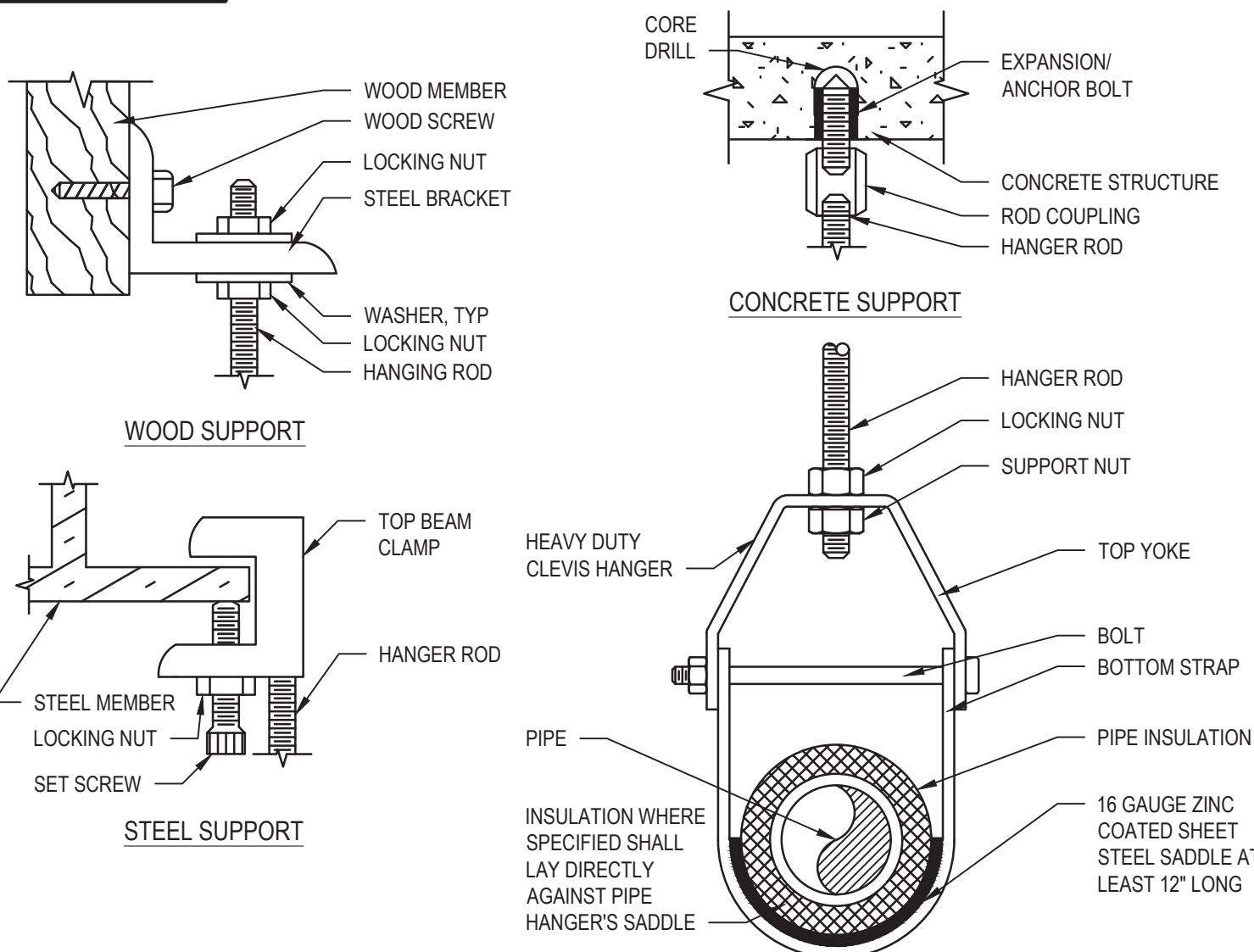
NOMINAL PIPE SIZE (INCHES)	VOLUME (LIQUID OUNCES PER FOOT LENGTH)	MAXIMUM PIPING LENGTH (FEET)	
		PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4"	0.33	6	50
1/2"	1.5	2	43
3/4"	3	0.5	21
1"	5	0.5	13
1-1/4"	8	0.5	8
1-1/2"	11	0.5	6
2" OR LARGER	18	0.5	4

HANGER SPACING			
PIPING MATERIAL		MAX HORIZONTAL (FT)	MAX VERTICAL (FT)
POLYETHYLENE		2.67	4
PEX		2.67	10
CPVC 1" OR SMALLER		3	10
ABS/PPVC/CPVC (>1")		4	10
CAST-IRON		5	15
COPPER (<1-1/2)		6	10
COPPER (>1-1/2)(BRASS)		10	10
STEEL		12	15

HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE (DIA.)	PIPE SIZE	ROD SIZE (DIA.)
≤ 2"	3/8"	4" THRU 5"	5/8"
2 1/2" THRU 3 1/2"	1/2"	6" THRU 8"	3/4"

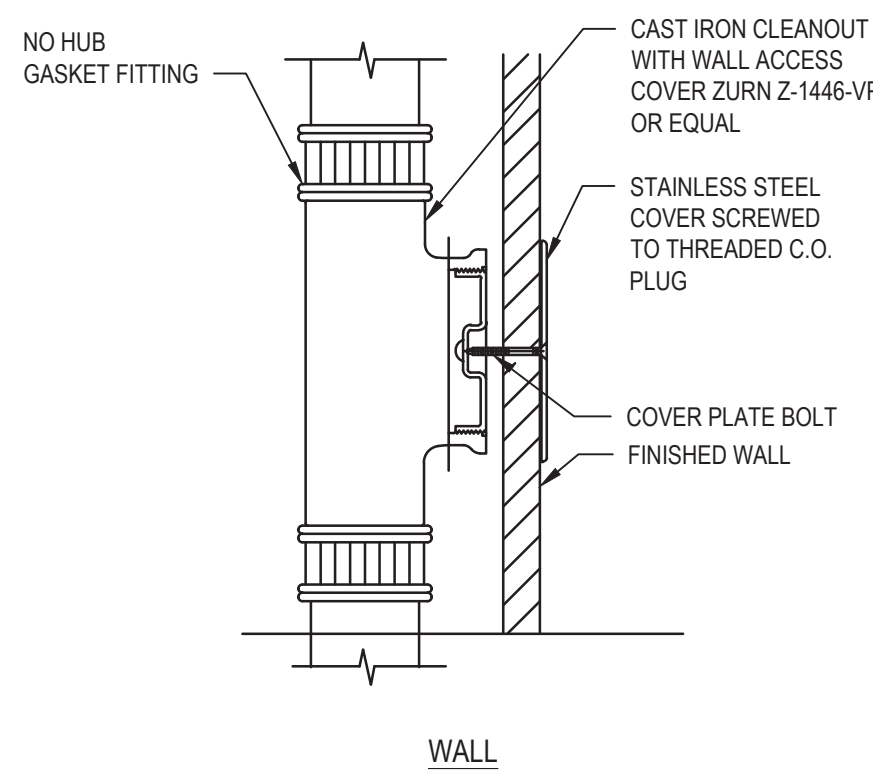
1 Pipe Hanger Detail

SCALE: NTS



LEAD FREE NOTE:

- ALL FAUCETS, FITTINGS, AND VALVES MUST COMPLY WITH NSF 61 AND ASTM 372 FOR LOW LEAD PERCENTAGE.
- CONTRACTOR SHALL BE RESPONSIBLE TO DEMONSTRATE COMPLIANCE WITH THE NYS DEPARTMENT OF HEALTH LEAD IN WATER REGULATION (10 NYCRR 67-4).
- AT THE CONCLUSION OF NEW PLUMBING WORK, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE SERVICES OF A THIRD PARTY NYS LICENSED ENVIRONMENTAL TESTING LABORATORY TO PROVIDE LEAD TESTING AT ALL NEW LAVATORIES, SINKS, SHOWERS, DRINKING FOUNTAINS AND ALL OTHER FIXTURES WHERE WATER MAY BE CONSUMED FOR DRINKING. TWO COPIES OF THE REPORT MUST BE SUBMITTED, ONE COPY TO THE ENGINEER AND THE OTHER ONE TO THE OWNER.



2 Cleanout Details

SCALE: NTS



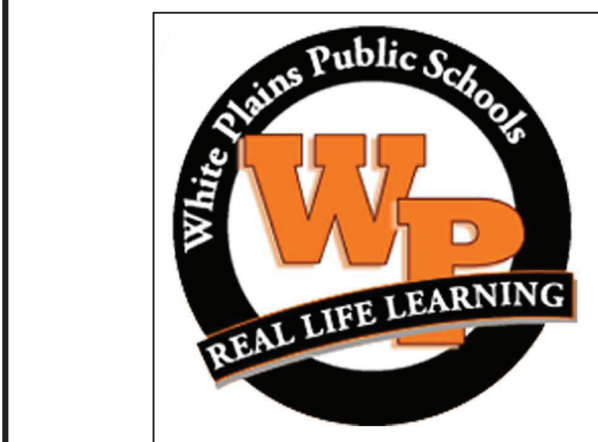
JONATHAN R. MURATORE, P.E.
NY PROFESSIONAL ENGINEER LIC. NO. 10924002

DESIGNED BY: CJM DRAWN BY: CJM CHECKED BY: JRM REVIEWED BY: JRM

PROJECT NO: WPSD2401 DATE: MAY 2025 SCALE: AS SHOWN

CLIENT
White Plains City School District

**Renovations at
Rochambeau Alternate
High School**



**228 Fisher Avenue
White Plains, NY 10606**

SED #66-22-00-01-0-015-020

CONTRACT
**CONTRACT P
PLUMBING CONTRACT**

STATUS
FINAL BID DOCUMENT

SHEET TITLE
**PLUMBING GENERAL NOTES,
LEGEND, ABBREVIATIONS,
SCHEDULES, AND DETAILS**

DRAWING NO.
P 001.01

