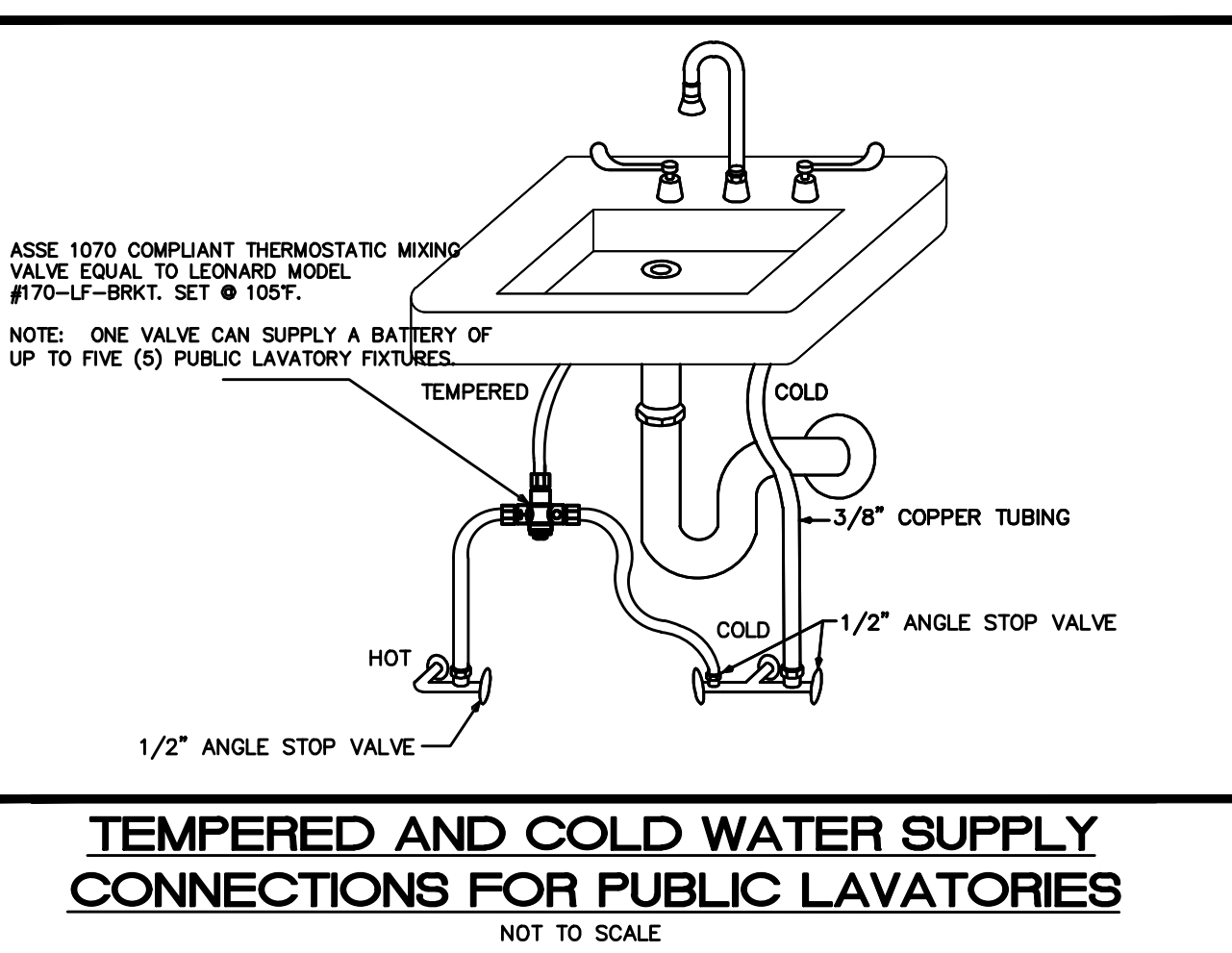
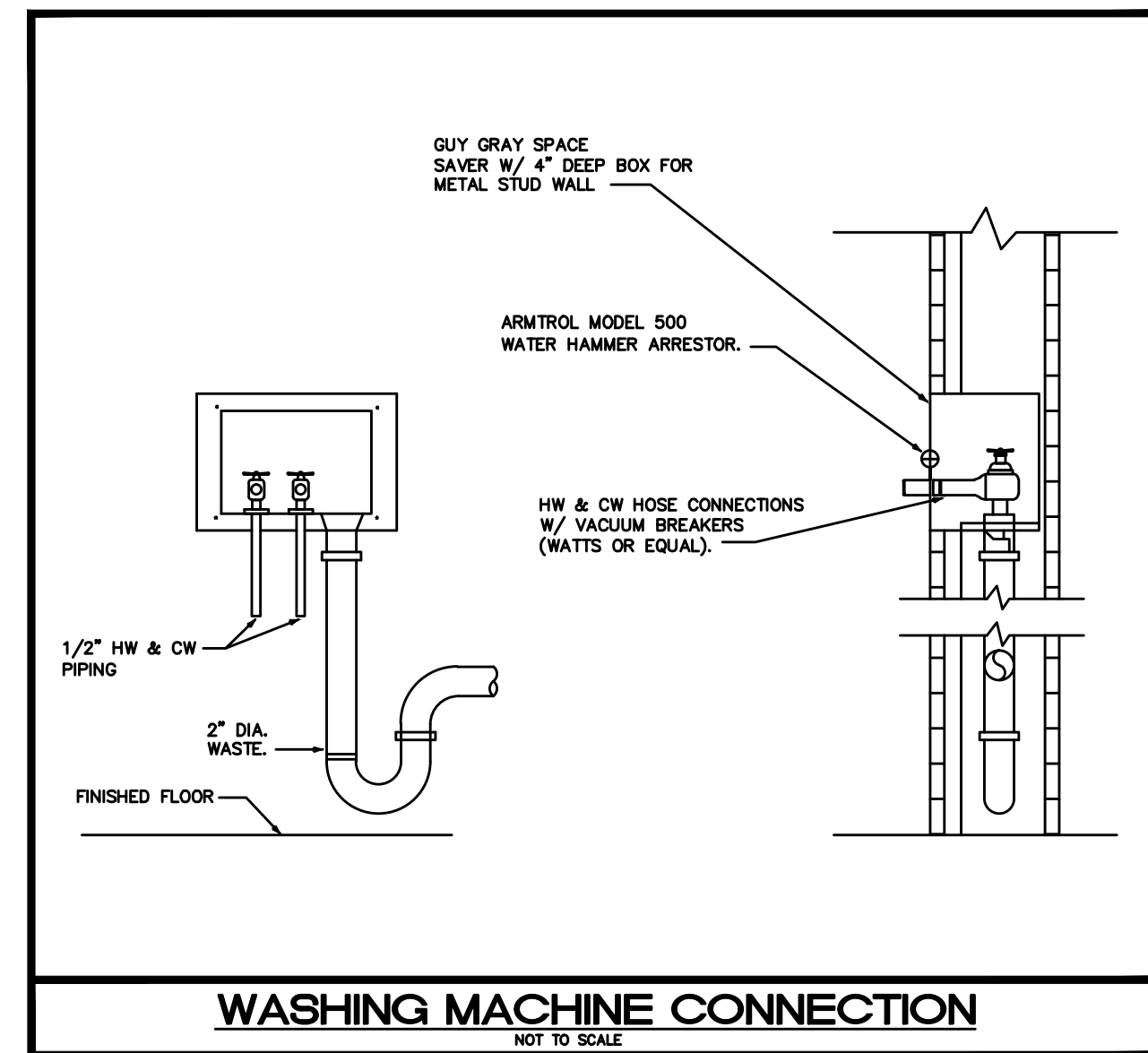
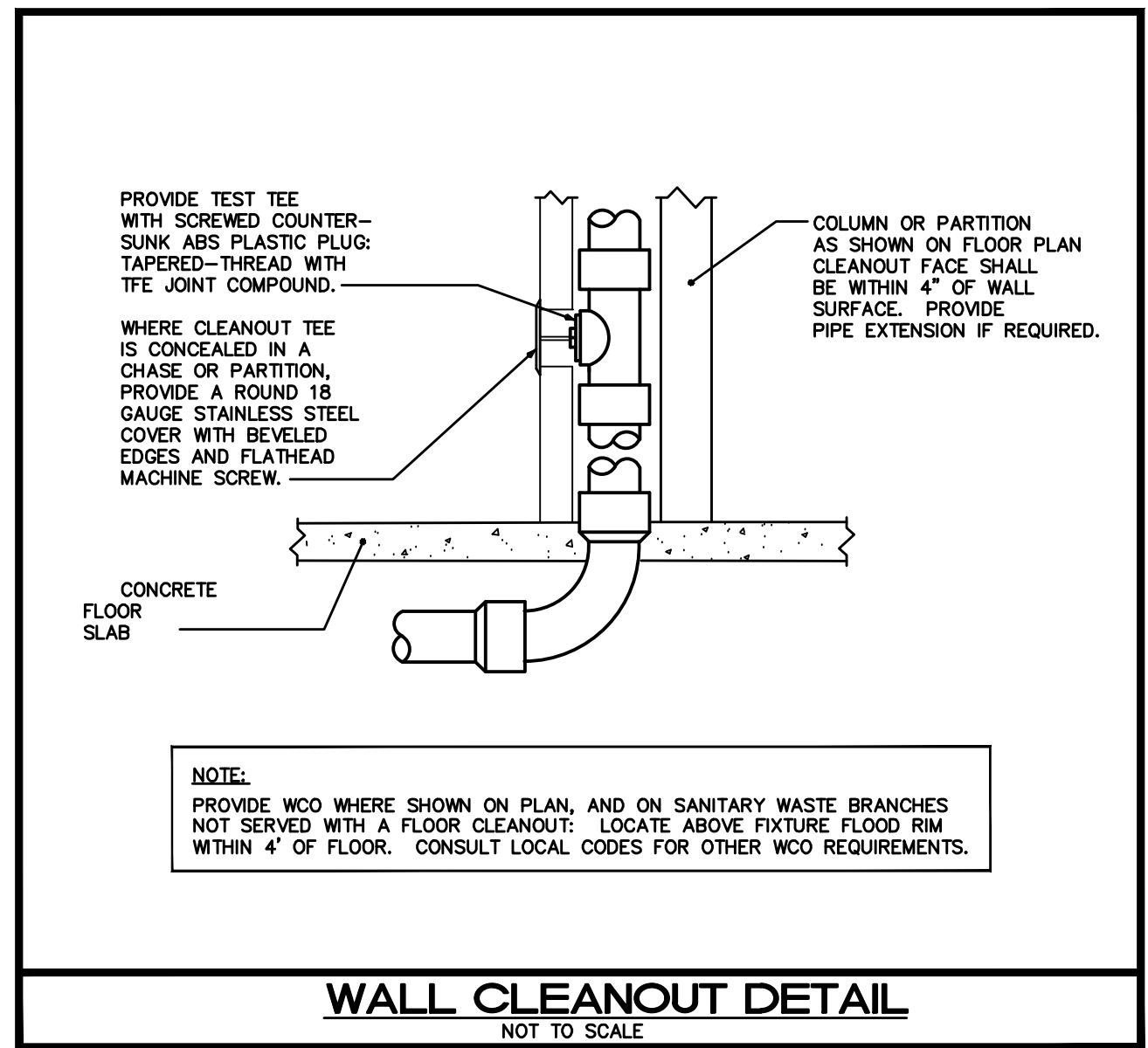


DRAW THRU UNIT CONDENSATE TRAP
NOT TO SCALE



PLUMBING LEGEND

CO	CLEAN OUT	—	SANITARY SEWER PIPING
FD	FLOOR DRAIN	—	VENT PIPING
CW	DOMESTIC COLD WATER	—	DOMESTIC COLD WATER PIPING
HW	DOMESTIC HOT WATER	—	HOT WATER PIPING (110°)
VTR	VENT THRU ROOF	—CD—	CONDENSATE PIPING
⊗	GATE VALVE	—CA—	COMPRESSED AIR PIPING
⊕	WATER HAMMER ARRESTOR (PDI No.)	—S—	PIPE RISE UP
⊖	FLOOR DRAIN	—D—	PIPE DOWN OR DROP
P	P-TRAP	—	CAPPED END OF PIPE
		●	POINT OF CONNECTION



SHOCK ARRESTOR SCHEDULE

P.D.I. DESIGNATION	MANUF. & MODEL	FIXTURE UNITS	CONNECTION
A	SIoux CHIEF 652-A	1-11	1/2"
B	SIoux CHIEF 653-B	12-32	3/4"
C	SIoux CHIEF 654-C	33-60	1"

SIoux CHIEF SHOCK ARRESTORS APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSI/ASSE 1010 STANDARDS.

TYPICAL PLUMBING FIXTURE CONNECTION SCHEDULE

TYPE	SOIL / WASTE	VENT	TRAP	CW	HW	REMARKS
2" HUB DRAIN	2"	2"	2"	—	—	PROVIDE 1/2" CW TRAP PRIMER CONNECTION.
3" HUB DRAIN	3"	2"	3"	—	—	PROVIDE 1/2" CW TRAP PRIMER CONNECTION.
COFFEE MAKER/WATER FILTER	—	—	—	1/2"	—	PROVIDE WITH VACUUM BREAKER.
ELECTRIC WATER COOLER	2"	2"	1 1/4"	1/2"	—	—
SINK	2"	2"	1 1/2"	1/2"	1/2"	1.0 GPM AT 80 PSI MAXIMUM.
MOP SINK	3"	2"	3"	1/2"	1/2"	PROVIDE HOSE THREAD FAUCET WITH INTEGRAL VACUUM BREAKER.
LAVATORY (PUBLIC)	2"	2"	1 1/4"	1/2"	1/2"	0.5 GPM AT 80 PSI MAXIMUM. (0.25 GALLON METERING CYCLE)
REFRIGERATOR	—	—	—	1/2"	—	PROVIDE WITH VACUUM BREAKER.
WATER CLOSET (FLUSH VALVE)	4"	2"	INTEGRAL	1"	—	1.28 GALLONS PER FLUSHING CYCLE MAXIMUM.
WATER CLOSET (FLUSH TANK)	4"	2"	INTEGRAL	1/2"	—	1.28 GALLONS PER FLUSHING CYCLE MAXIMUM.
URINAL	2"	2"	INTEGRAL	3/4"	—	0.128 GALLONS PER FLUSHING CYCLE MAXIMUM.

NOTE: PLUMBING FIXTURE CONNECTION SCHEDULE IS SHOWN FOR CONVENIENCE ONLY. PLUMBING CONTRACTOR TO CONFIRM FINAL PLUMBING FIXTURE CONNECTION SIZES WITH PLUMBING FIXTURE MANUFACTURER'S REQUIREMENTS. ALL FIXTURES SHALL COMPLY WITH LOCAL WATER-USE EFFICIENCY REQUIREMENTS.

CONDENSATE DRAIN PIPE SIZING

HVAC EQUIPMENT CAPACITY	MINIMUM CONDENSATE PIPE DIAMETER
UP TO 20 TONS OF REFRIGERATION	1"
OVER 21 TONS TO 40 TONS OF REFRIGERATION	1-1/4"
OVER 41 TONS TO 60 TONS OF REFRIGERATION	1-1/2"
OVER 61 TONS TO 100 TONS OF REFRIGERATION	2"
OVER 101 TONS TO 250 TONS OF REFRIGERATION	3"
OVER 251 TONS & LARGER OF REFRIGERATION	4"

PLUMBING FIXTURE SCHEDULE

L1	ADA LAVATORY, AMERICAN STANDARD, DECLYN WALL HUNG LAVATORY MODEL #0321.075. WHITE W/ FAUCET, AMERICAN STANDARD COLONY MODEL 2175.207 WITH EBF-650, W BDT THERMOSTATIC MIXING VALVE NOT TO EXCEED 110 DEGREES. PROVIDE 0.5 GPM AERATOR, ARM SUPPORT CARRIER FOR MOUNTING OF LAV. WADE MODEL # 520-M36. SUPPLY PLUMBEREX MODEL# 4333 INSULATION KIT. MUST MEET A.D.A. CODE.
WC1	WATER CLOSET, TANK TYPE BOWL, AMERICAN STANDARD 2832.128 FLOOR MOUNTED, CADET 3 FLOWSE ELONGATED TOILET HIGH EFFICIENCY (1.28 GPF). PROVIDE WHITE COMFORT SEAT MODEL # C8033, OPEN FRONT WITH COVER.
FD1	FLOOR DRAIN, SIOUX CHIEF 863 SERIES. PROVIDE TRAP PRIMER SIOUX CHIEF 695 SERIES.
SK1	KITCHEN SINK, JUST MODEL #SL-ADA-2122-A-GR, ADA-COMPLIANT, 6-1/2" DEEP SINGLE-BASIN, LEDGE-BACK, SELF-RIMMING, 18-GAUGE TYPE 304 STAINLESS STEEL, WITH GRID STRAINER AND T&S BRASS FAUCET MODEL #B-2730-WS, SINGLE-LEVER, 9" SWING SPOUT, 1.5 GPM AERATOR, CERAMIC DISC CARTRIDGE AND SIDE-SPRAY ACCESSORY.
MSK1	MOP SINK, STERN WILLIAMS MODEL #58C-1700, TERRAZZO WITH RIM GUARDS & WALL GUARDS. PROVIDE WITH T&S BRASS FAUCET MODEL #B-0674-RGH-00JJ, ROUGH CHROME WITH INTEGRAL LOOSE KEY STOPS.
WCO	WALL CLEANOUT, MIFAB C1430-RD WITH BRONZE PLUG, STAINLESS STEEL COVER, AND SCREW.
OB1	GUY GRAY GALVANIZED ICE MAKER OUTLET BOX WITH LEAD FREE QUARTER TURN VALVE MODEL #BIMB75QTSAB.
GT1	GROOMING TABLE, SHOR-LINE CLASSIC GROOMING TABLE. SEE ARCHITECTURAL PLANS FOR DETAILS.
EW1	ELECTRIC WATER HEATER, LOCHINVAR MODEL #EST050PD, 50 GALLON, 208V/3PH/6.0KW.

GENERAL NOTES:

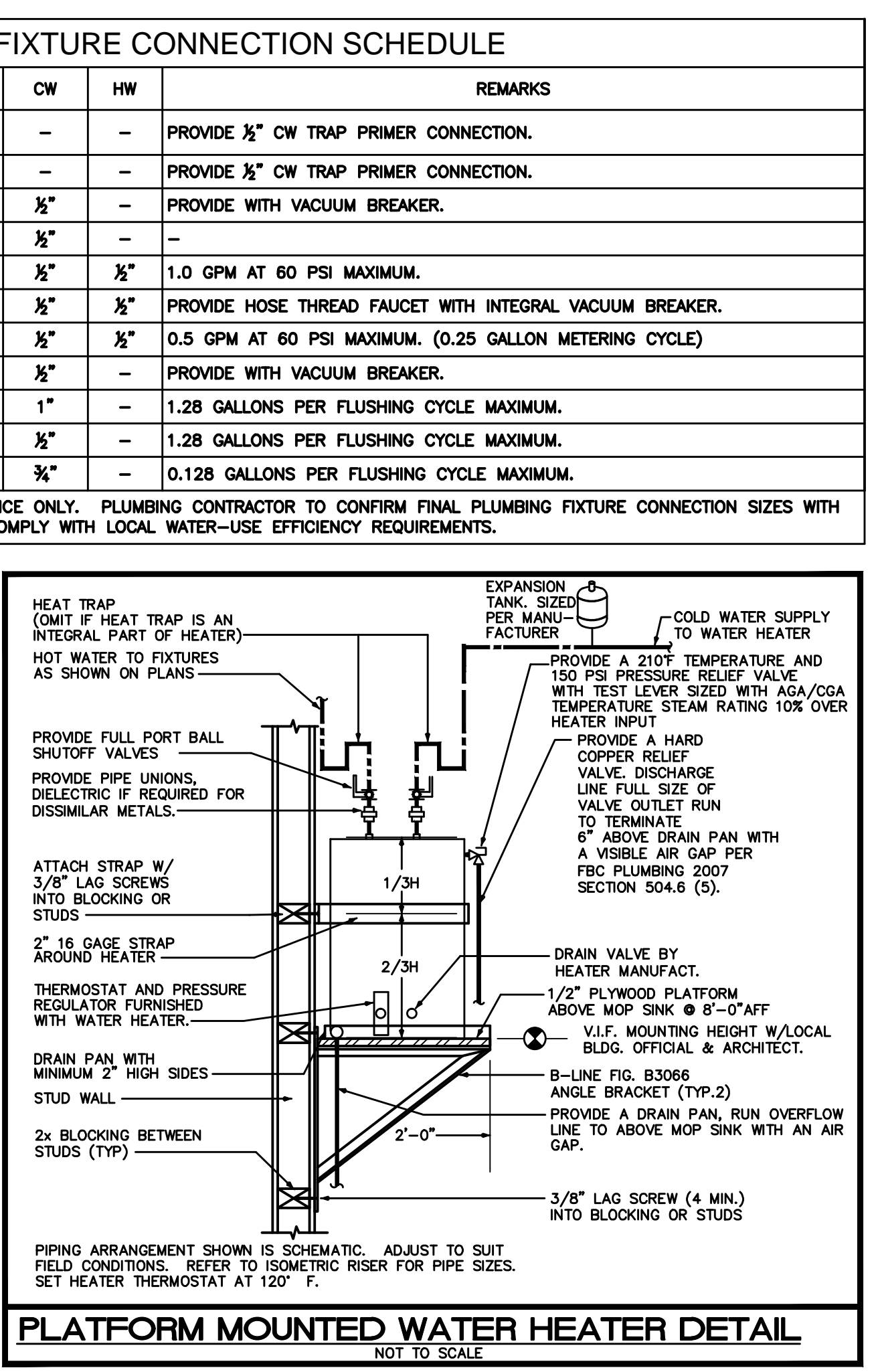
- FIXTURES SHALL BE AS SHOWN OR EQUAL.
- ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 OF FBC 2014.
- ALL FIXTURE TRIM PACKAGES INCLUDING BUT NOT LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE, SUPPLY TUBES, AND CLEANOUT COVER PLATES SHALL BE OF THE SAME FINISH AS THE ABOVE SPECIFIED FAUCET AND PER ARCHITECTURAL FINISH SCHEDULE.
- ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER CUT SHEET TO MAINTAIN UNIFORMITY.

NOTE: FINAL FIXTURE, FAUCET, AND TRIM SELECTIONS SHALL BE REVIEWED AND APPROVED BY ARCHITECT AND OWNER PRIOR TO SUBMITTAL TO ENGINEER OF RECORD.

SLOPE OF HORIZ. DRAINAGE PIPE

SIZE (inches)	MINIMUM SLOPE (inch per foot)
2-1/2 or less	1/4
3 to 6	1/8
8 or larger	1/16

TABLE 704.1 OF THE FLORIDA PLUMBING CODE 2014



PLUMBING SHEET INDEX

SHEET#	DESCRIPTION
P0.1	PLUMBING NOTES, LEGENDS, AND DETAILS
P2.1	SANITARY PLAN
P3.1	DOMESTIC WATER PLAN
P5.1	PLUMBING ISOMETRICS

- PLUMBING NOTES**
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SCOPE OF WORK. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE FLORIDA BUILDING CODE 5th EDITION (2014) - PLUMBING, APPLICABLE LOCAL CODES, RULES, AND ORDINANCES.
 - PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
 - ALL MATERIALS SHALL BE NEW AND OF GOOD QUALITY.
 - ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY-OPERATIONAL. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
 - REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
 - PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS. PLUMBING CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
 - CONTRACTOR SHALL SUBMIT TO ARCHITECT/ENGINEER, FOR REVIEW & APPROVAL FIVE (5) SETS OF MANUFACTURER'S CUT SHEETS FOR EACH FIXTURE, PIPING/FITTING MATERIAL AND EQUIPMENT ITEM WITH ASSOCIATED CONTROLS. THAT ARE INCLUDED IN THE CONTRACT.
 - DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
 - ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ARCHITECT/ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
 - VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERT ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
 - WATER DISTRIBUTION PIPING ABOVE AND BELOW GROUND SHALL BE TYPE "L" COPPER. ALTERNATE PIPING & FITTING MATERIALS MAY BE USED IN ACCORDANCE WITH FLORIDA BUILDING CODE 5th EDITION (2014) - PLUMBING, TABLES 605.3, 605.4 & 605.5, WHEN APPROVED BY ENGINEER OF RECORD AND LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE ALTERNATE FOR CPVC PIPING & FITTINGS EQUAL TO LUBRIZOL CORZAN OR FLOW-GUARD GOLD. PROVIDE ALTERNATE FOR PE-X TYPE "A" PIPING & FITTINGS EQUAL TO UPONOR. ALTERNATES ARE PERTINENT FOR WATER SERVICES KNOWN OR DETERMINED TO HAVE ACIDIC CHARACTERISTICS OR OTHER PARTICULAR CIRCUMSTANCES AS DEEMED APPROPRIATE BY DIRECTIVE FROM THE OWNER. CONTRACTOR SHALL PERFORM A WATER TEST TO DETERMINE WATER CHEMISTRY PRIOR TO ANY WORK OR PIPING INSTALLATION AND SHALL SUBMIT TEST RESULTS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. DISINFECTION OF POTABLE WATER SYSTEM SHALL COMPLY WITH FLORIDA BUILDING CODE 5th EDITION (2014) - PLUMBING, SECTION 610. ALL WATER PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
 - SOIL, WASTE, VENT, AND RAINWATER (DWP) PIPING & FITTINGS SHALL BE CAST IRON OR PVC, WHERE CODE ALLOWS. PVC MAY NOT BE USED THRU RATED ASSEMBLIES OR IN PLENUMS. PVC PIPING SHALL BE SOLID-CORE ONLY. FOAM-CORE PIPING SHALL NOT BE ACCEPTED. CAST IRON PIPING & FITTINGS SHALL BEAR THE CISP-301 MARK. ALL DWP PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
 - ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE ANGLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS (WHERE REQUIRED). COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
 - PROVIDE APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED & LOCATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS & PDI-WH201.
 - PROVIDE DIELECTRIC COUPLINGS OR FLANGES BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS.
 - ISOLATE COPPER PIPING FROM METALLIC HANGERS OR SUPPORTS WITH ISOLATOR PADS OR NON-CONDUCTIVE MATERIAL.
 - ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING ANNULAR SPACE BETWEEN PIPING AND SLEEVES WITH INTUMESCENT CAULK, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS, AS PART OF THE PLUMBING CONTRACTOR'S WORK.
 - PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
 - PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS SHALL MAINTAIN THE SAME RATING AND SHALL MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
 - PROVIDE COMBINATION CLEANOUT PLUG AND COVER PLATE OR ACCESS PANEL FOR ALL WALL CLEANOUTS. FINISH TO MATCH NEARBY FIXTURE TRIM.
 - NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN MECHANICAL ROOMS NOR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
 - NO WATER, SANITARY OR DRAINAGE PIPING SHALL BE INSTALLED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
 - ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE FURNISHED FOR OWNER/OPERATOR.
 - CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET PER FLORIDA BUILDING CODE 5th EDITION (2014) - ENERGY CONSERVATION, TABLE C403.2.8. PVC WITHOUT INSULATION IS ACCEPTABLE FOR RISERS AND BELOW GRADE PIPING. WHEN USED IN A RETURN AIR PLENUM, PVC PIPING WITH INSULATION IS ACCEPTABLE IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. CONDENSATE PIPING SHALL NOT DRAIN ONTO THE ROOFING SYSTEM NOR ANY OF ITS COMPONENTS. CONDENSATE PIPING ARRANGEMENT IS EXEMPT FROM MINIMUM EQUIPMENT CLEARANCE REQUIREMENTS PER FLORIDA BUILDING CODE 5th EDITION (2014), SECTION 1522.3.5. ALL HORIZONTAL RAINWATER PIPING RUN ABOVE FINISHED FLOOR THAT RECEIVES CONDENSATE DISCHARGE SHALL BE INSULATED WITH ARMAFLEX AND A VAPOR-BARRIER JACKET.
 - HOT WATER PIPING INSULATION SHALL BE PROVIDED IN ACCORDANCE WITH FLORIDA BUILDING CODE 5th EDITION (2014) - PLUMBING, TABLE 607.5 & FLORIDA BUILDING CODE 5th EDITION (2014) - ENERGY CONSERVATION, TABLE C403.2.8. CONTRACTOR SHALL USE ARMAFLEX OR EQUAL WHERE APPLICABLE. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET, PER FLORIDA BUILDING CODE 5th EDITION (2014) - ENERGY CONSERVATION, TABLE C403.2.8.
 - AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

ISSUED FOR PERMIT 08-04-2016
ISSUED FOR CONSTRUCTION

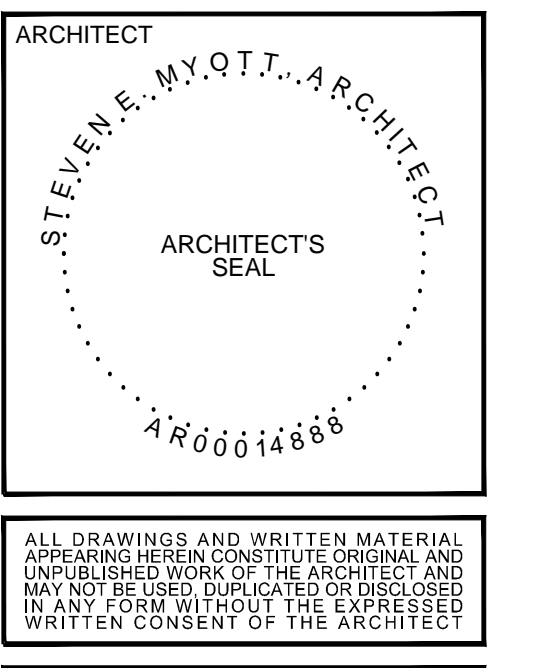
KAMM CONSULTING PROJECT # 2016-0501
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08-24-2016
2016
signed



Camp Canine
- INTERIOR RENOVATION -
PENN DUTCH PLAZA
3191 SR7
MARGATE, FLORIDA 33063



PROJECT NO: 16.049
DRAWN BY: SY
CHECKED BY: SM

NO.	DATE	ISSUED FOR
1	05.20.2016	PRELIMINARY REVIEW
2	08.04.2016	PERMIT / BIDDING
3	08.09.2016	COORDINATION

PLUMBING NOTES

P0.1