

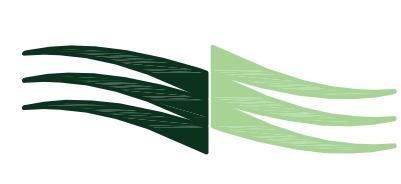
**BRISTOL REDEVELOPMENT & HOUSING AUTHORITY
THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA
BRHA - TVO-1460-00.MF.0915**

**BUILDING A-D
PLUMBING NOTES AND SCHEDULES**

No.	Date	Purpose of Document Issue

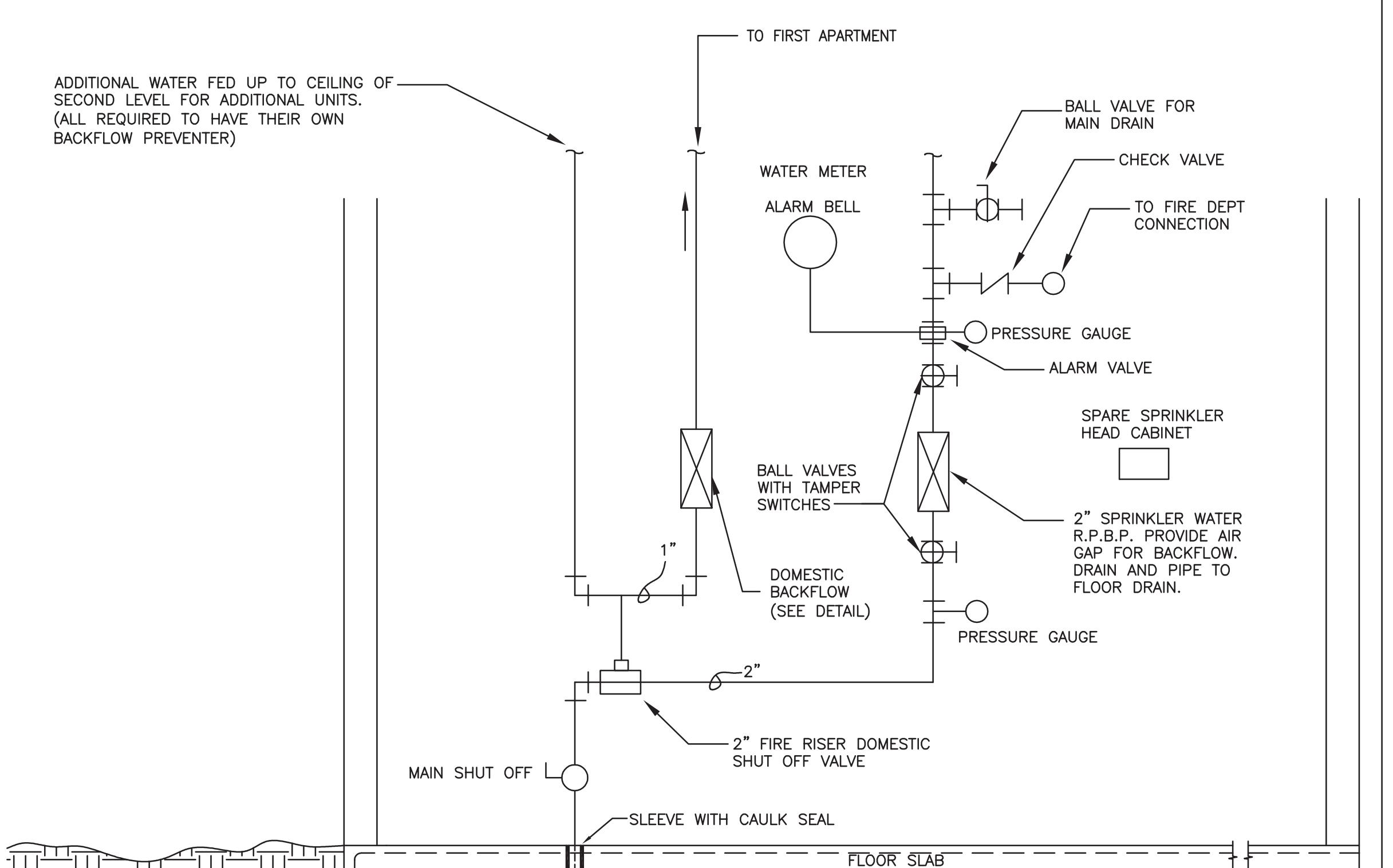
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Project No. **12655-05**



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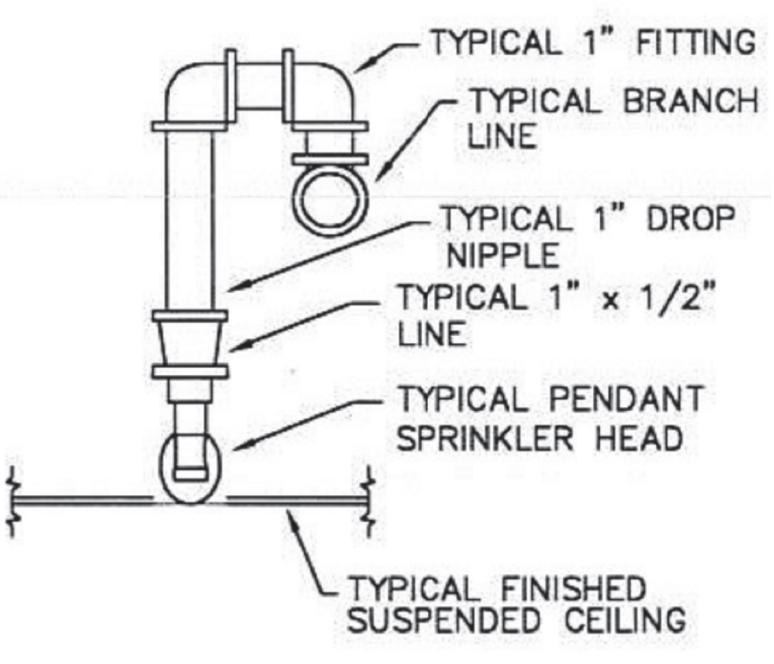
P001



NFPA 13R SPRINKLER RISER
NOT TO SCALE

FOUNDATION
FOOTING
2" COMBINED FIRE LINE & DOMESTIC
PASS UNDER FOOTING OR SLEEVE THRU WALL BELOW. SLEEVE PIPE WITH 6" NO-HUB OR SERVICE WT CAST IRON PIPE CASING

USE RESTRAINED JOINT PIPING OR RESTRAIN ENTRANCE PIPING AS RECOMMENDED IN 2010 NFPA 13, FIGURE A.10.6.5



TYPICAL RETURN SPRINKLER BEND INSTALLATION DETAIL
NOT TO SCALE

TYPICAL PLUMBING NOTES

- COORDINATE WITH ARCHITECTURAL PLANS FOR ALL FIRE RATED BUILDING ASSEMBLIES, PROVIDE AND INSTALL U.L. RATED FIRE-STOP ASSEMBLIES IN ANY SUCH AREAS AS REQUIRED BY CODE.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
- WORKMANSHIP: PLUMBING FIXTURES AND ACCESSORIES SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER. UNSIGHTLY INSTALLATIONS SHALL BE REMOVED OR REWORKED AT NO EXPENSE TO THE OWNER.
- REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL COORDINATION WITH THESE DRAWINGS.
- SEAL ALL WALL, ROOF AND FLOOR PENETRATIONS BY PLUMBING SERVICE AIRTIGHT.
- PROVIDE CHROME-PLATED ESCUTCHEONS AT ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS.
- COORDINATE ALL PENETRATIONS OF FLOOR SLABS, ROOF AND WALLS WITH STRUCTURAL DRAWINGS.
- PROVIDE WATER STOP VALVES AT EACH EQUIPMENT ITEM
- COORDINATE WITH APPROVED ARCHITECTURAL DRAWINGS BEFORE ROUGHING-IN PLUMBING
- ALL FLOOR DRAINS AND OPEN HUB DRAINS SHALL BE INSTALLED WITH DEEP SEAL P-TRAPS. PROVIDE TRAP PRIMERS WHERE SHOWN ON PLAN AND AT ALL LOCATIONS REQUIRED BY CODE AND LOCAL AUTHORITY.
- CONTRACTOR SHALL PROVIDE ALL VALVES, PRESSURE REDUCING VALVES, SHOCK ABSORBERS AND ACCESSORIES TO COMPLETELY INSTALL ALL EQUIPMENT TO MAKE A COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL INSTALL ALL OWNER FURNISHED EQUIPMENT WITH ALL ITEMS TO MAKE EQUIPMENT OPERABLE.
- ALL VENTING OF FIXTURES SHALL COMPLY WITH LOCAL CODES AND ORDINANCES.
- USE DIELECTRIC UNIONS WHERE PIPE OF DIFFERENT METALS ARE JOINED.
- MAKE PROPER HOT & COLD WATER, WASTE, VENT ETC. PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCH RUNS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
- PVC OR OTHER PLASTIC COMPOSITE PIPING SHALL NOT BE INSTALLED IN RETURN AIR PLENUMS.
- CLEANOUTS FOR SOIL AND WASTE LINES SHALL BE INSTALLED WHERE INDICATED ON THE DRAWINGS AND EVERY 90-DEGREE CHANGE IN DIRECTION.
- ALL PIPING SHOWN ON THESE PLANS ARE TO BE ROUTED ABOVE CEILINGS, BELOW FLOORS AND IN CHASES UNLESS OTHERWISE NOTED.
- SEE SITE PLAN FOR EXTENT OF ALL PIPING LEAVING OR ENTERING THE BUILDING.
- CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF SANITARY AND WATER TIE-IN POINTS WITH THE LOCAL WATER AND SEWER AUTHORITIES.
- CONTRACTOR SHALL PAY ALL ASSOCIATED COSTS FOR TAP FEES, PERMITS FOR SUPPLY AND INSTALLATION OF BACKFLOW PREVENTER AND/OR WATER METER ON SITE AS REQUIRED.
- VERIFY ALL TOP OF MANHOLE AND CATCH BASIN ELEVATIONS AND INVERTS WITH ARCHITECT'S FINAL AND APPROVED SITE GRADING PLAN.
- SERVICE VALVES SHALL BE FURNISHED AND INSTALLED ON ALL HOT AND COLD WATER LINES AT EQUIPMENT IN AN ACCESSIBLE POSITION.
- ALL FLOOR OPENINGS ARE TO BE SEALED WATERTIGHT BY MEANS OF SLEEVES.
- ALL HORIZONTAL AND VERTICAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATION AND NOT LESS THAN 4' ABOVE FLOOR TO PROVIDE CLEARANCE FOR CLEANING. AT WALL OR COLUMN LOCATIONS, PIPING ROUGH IN SHALL BE STUBBED IN WALLS WHEREVER POSSIBLE.
- ALL LISTED FIRE PROTECTION EQUIPMENT AND EXACT LOCATION OF REQUIRED POST INDICATOR VALVE, FIRE DEPARTMENT CONNECTION AND FIRE PROTECTION SYSTEM BACKFLOW PREVENTER TO BE SUBMITTED TO ALL AUTHORITIES HAVING JURISDICTION (INCLUDING OWNERS INSURANCE COMPANY) FOR APPROVAL PRIOR TO BID OR CONSTRUCTION.
- DOMESTIC WATER INSULATION SHALL BE FIBERGLASS PIPE INSULATION MINIMUM DENSITY 3.5 PCF; 1/2" THICKNESS FOR COLD WATER AND HOT WATER PIPE TO BE MINIMUM R4 INSULATION.
- WASTE AND VENT PIPE TO BE SCHEDULE 40 PVC; DOMESTIC WATER PIPE TO BE TYPE L OR K HARD DRAWN COPPER.
- EQUIPMENT AND MATERIALS SUBMITTED AS ALTERNATES TO THE SPECIFIED DATA MUST BE CLEARLY MARKED AS TO THE DIFFERENCES IN SUBMITTED VERSUS SPECIFIED. FAILURE TO CLEARLY MARK THE SUBMITTALS AS SUCH IS GROUNDS FOR REJECTION. SUBMITTALS NOT CLEARLY MARKED AS BEING ALTERNATE TO THE SPECIFIED DATA CAN BE ASSUMED TO MEET ALL SPECIFIED REQUIREMENTS AND PROVIDER IS RESPONSIBLE TO PROVIDE AS SUCH.
- CONTRACTOR IS TO REFER TO THE ARCHITECTURAL PLANS FOR THE LOCATION AND ELEVATIONS OF ALL ADA FIXTURES.
- THE "REDUCTION IN LEAD IN DRINKING WATER ACT" REQUIRES MATERIALS AND FIXTURES USED FOR DELIVERY OF POTABLE WATER TO CONTAIN LESS THAN 0.2% LEAD FOR SOLDER AND FLUX, AND NOT MORE THAN A WEIGHT AVERAGE OF 0.25% LEAD FOR PIPES, FITTING AND FIXTURES. EXCLUDED FROM THIS ACT ARE TOILETS, BIDETS, URINALS, FLUSH VALVES, TUB FILLERS, SHOWER VALVES. IT IS THE INTENT OF THIS PROJECT TO CONFORM WITH THE REQUIREMENTS OF THE 2014 LEAD FREE ACT. EVERY EFFORT HAS BEEN MADE TO CALL FOR FIXTURES THAT COMPLY WITH THE ACT. EVEN SO, IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSTALL PRODUCTS THAT COMPLY WITH THE 2014 LEAD FREE WATER DRINKING ACT.
- THE CONTRACTOR WILL BE REQUIRED TO MEET THE "NO LEAK" REQUIREMENT OF EARTH CRAFT. NO LEAKS OF ANY WATER USING FEATURE, APPLIANCE OR EQUIPMENT.
- ALL HOT WATER PIPES TO BE INSULATED WITH R-4 OR GREATER BY USING POLYETHYLENE, NEOPRENE, FIBERGLASS OR OTHER INSULATION TYPE. FIT INSULATION TIGHT AROUND HOT WATER PIPE, FACE SEAM DOWN AND SECURE INSULATION EVERY 2 FEET USING WIRE, TAPE OR CLAMPS. INSTALL INSULATION ON ALL PIPING ELBOWS TO ADEQUATELY INSULATE 90° BENDS.
- BOTTOM OF BATHTUBS TO BE SLIP RESISTANT/TESTURED FINISH.
- ALL TUBS/SHOWERS AND SHOWER DIVERTERS ARE TO HAVE INTERNAL SHUT-OFF VALVES OR EXTERNAL SHUT-OFF VALVES WITH ACCESS PANELS.
- PROVIDE DRAIN PANS FOR ALL WATER HEATERS.

NOTE: SHOP DRAWINGS SENT TO THE ENGINEER FOR REVIEW SHALL HAVE BEEN REVIEWED AND STAMPED BY THE LOCAL AUTHORITY HAVING JURISDICTION. SHOP DRAWINGS SENT TO THE ENGINEER WITHOUT BEING STAMPED BY THE LOCAL AUTHORITY HAVING JURISDICTION WILL BE REJECTED.

SPRINKLER SYSTEM GENERAL NOTES

- PROVIDE A COMPLETE AUTOMATIC SPRINKLER SYSTEM FOR THE ENTIRE BUILDING. FIRE LINE LOCATIONS AND RISERS SHOWN ON THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC. ALL FIRE PROTECTION PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODES. CONTACT THE LOCAL WATER COMPANY FOR REQUIREMENTS CONCERNING SERVICE, BACKFLOW PREVENTION DEVICES AND METERING DEVICES. VERIFY THE POINT OF CONNECTION TO THE UTILITY SYSTEM, WATER AND AVAILABLE PRESSURE WITH LOCAL AUTHORITY EXCEPT AS NOTED.
- THE SPRINKLER SYSTEM SHALL BE A LIGHT HAZARD WET PIPE SYSTEM DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13R 2010 EDITION, AND NFPA 24.
- THESE FIRE PROTECTION DRAWINGS PROVIDED ARE TO SHOW THE INTENT AND GENERAL ARRANGEMENT. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND MISC. SYSTEMS ARE CLOSELY COORDINATED WITH THE BUILDING STRUCTURE AND CEILINGS WHERE CEILINGS ARE PRESENT. PIPING LOCATIONS AND ELEVATIONS SHOWN ON THESE DRAWINGS MAY NEED TO VARY SLIGHTLY FOR COORDINATION PURPOSES. ANY DEVIATIONS FOR THE APPROVED PROJECT DESIGN SHALL BE HIGHLIGHTED ON THE ORIGINAL OR REVISE SUBMITTAL DRAWING AND ARE SUBJECT TO THE APPROVAL OF THE A/E.
- PIPING ARRANGEMENT SHOWN IS CONCEPTUAL, EXACT LAYOUT AND SIZING SHALL BE IN ACCORDANCE WITH THE DESIGNER'S HYDRAULIC CALCULATIONS.
- COORDINATE FIRE ALARM SYSTEM CONNECTION AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- PROVIDE SPRINKLER HEAD GUARDS IN ALL MECHANICAL SPACES, STORAGE ROOMS AND OTHER SERVICE SPACES.
- SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.
- FIRE SPRINKLER SYSTEMS SHALL BE CONCEALED ABOVE FINISHED CEILINGS REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS OF BUILDING CONSTRUCTION.
- THE SPRINKLER CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS PROVIDING ALL PIPE SIZES FOR THE SYSTEM. THE CONTRACTOR WILL INDICATE ALL SPRINKLERS AND PIPING REQUIRED TO PROVIDE THE REQUIRED COVERAGE ON THE WORKING PLANS.
- Maintain easements for other trades such as HVAC ducts/pipes, light fixtures, plumbing pipes, etc.
- REFER TO CIVIL PLANS FOR LOCATION OF INCOMING WATER SERVICE.
- SLVVE AND FIRE-STOP ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR. REFER TO ARCHITECTURAL PLANS FOR FIRE RATINGS AND FIRE STOPPING DETAILS. SLEEVE AND CAULK ALL PENETRATIONS THROUGH NON-FIRE RATED WALLS.
- COORDINATE SPRINKLER HEAD SPACING AND ARRANGEMENTS IN MECHANICAL ROOMS WITH EQUIPMENT, PIPING AND DUCTWORK.
- THE SPRINKLER CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES PRIOR TO PREPARATION OF SHOP DRAWINGS, FABRICATION OF SYSTEMS AND COMMENCEMENT OF INSTALLATION. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REVIEW THE WORK OF OTHER TRADES (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, ARCHITECTURAL, CIVIL, FIRE ALARMS, MECHANICAL, PLUMBING AND ELECTRICAL) AS IT AFFECTS THEIR WORK, AND AS THEIR WORK AFFECTS OTHER TRADES.
- THESE PLANS SHOW THE DESIGN INTENT. THE FINAL WORKING PLANS AND HYDRAULIC CALCULATIONS ARE TO BE PERFORMED BY A LICENSED SPRINKLER CONTRACTOR AND SUBMITTED TO THE BUILDING OFFICIAL AND THE ENGINEER. CONSTRUCTION MAY NOT BEGIN UNTIL THE ENGINEER AND BUILDING OFFICIAL HAVE APPROVALS HAVE BEEN OBTAINED.
- THE SUCCESSFUL CONTRACTOR SHALL PROVIDE UPDATED FLOW TEST DATA TO THE ENGINEER OF RECORD.

PLUMBING FIXTURE SCHEDULE

PLUMBING FIXTURES AND ALL ACCESSORIES REQUIRED SHALL BE COORDINATED AND VERIFIED WITH THE ARCHITECT

P-1 WATER CLOSET (H.C.) Z5562 "ZURN" ADA HIGH EFFICIENCY SERIES ELONGATED FLOOR MOUNTED (LEFT-HANDED) SEAT
SUPPLY Z5562 "ZURN" ADA HIGH EFFICIENCY SERIES ELONGATED FLOOR MOUNTED TANK TYPE, 16-1/8" HIGH, DUAL FLUSH
Z59555-EL-STS "ZURN" ELONGATED, WHITE, OPEN FRONT SEAT LESS COVER WITH SELF-SUSTAINING STEEL CHECK HINGE.
Z-8804-CR-PC-XL "ZURN" CHROME PLATED BRASS ANGLE STOP WHEEL WITH HANDLE AND CHROME PLATED COPPER RISER

NOTE: FOR RIGHT HAND LEVERS USE SUFFIX -RH
P-1A WATER CLOSET (LEFT-HANDED) Z5572 "ZURN" HIGH EFFICIENCY SERIES ELONGATED FLOOR MOUNTED TANK TYPE, 15 HIGH, DUAL FLUSH
SUPPLY Z59555-EL-STS "ZURN" ELONGATED, WHITE, OPEN FRONT SEAT LESS COVER WITH SELF-SUSTAINING STEEL CHECK HINGE.
Z-8804-CR-PC-XL "ZURN" CHROME PLATED BRASS ANGLE STOP WHEEL WITH HANDLE AND CHROME PLATED COPPER RISER

NOTE: FOR RIGHT HAND LEVERS USE SUFFIX -RH
P-2 LAUNDRY (H.C.) Z5344 "ZURN" 20" x 18" 4"CC WALL MOUNTED SINK FAUCET
GRID DRAIN AND 0.5 GPM VANDAL RESISTANT AERATOR
P-TRAP Z-8743 "ZURN", 1- 1/4" 17 GA. CHROME PLATED BRASS
SUPPLY Z-8700 "ZURN", 1- 1/4" 17 GA. CHROME PLATED CAST BRASS,
CARRIER 17 GAUGE, DIE CAST NUTS, CLEANOUTS AND ESCUTCHEON
Z-8804-LR-PC-XL "ZURN" CHROME PLATED BRASS ANGLE STOPS AND 12" FLEXIBLE CHROME PLATED COPPER RISERS.
ZURN WALL CARRIER

NOTE: PROVIDE INSTITUTIONAL A.D.A. COMPLIANT INSULATORS FOR EXPOSED WASTE, HOT AND COLD WATER PIPES. HOT AND COLD WATER STOP/SUPPLIES AND TRAP INSULATOR KIT BY ZURN INDUSTRIES, INC.
P-4 SINK ZCTSR53229RG "ELKAY" 18 GA STAINLESS STEEL SINK
FAUCET S-23-3-W-1.5 "SYMMETRIX" KITCHEN FAUCET 1.5 GPM FLOW RESTRICTOR
DRAIN(2) Z-8741-SS "ZURN" STAINLESS STEEL BASKET STRAINER
P-TRAP Z-8702-PC "ZURN" 1-1/2" CHROME PLATED CAST BRASS, 17 GA.
SUPPLY DIE CAST NUTS, CLEANOUTS AND ESCUTCHEON
Z-8804-LR-PC-20-XL "ZURN" CHROME PLATED BRASS ANGLE STOPS AND 20" FLEXIBLE CHROME PLATED COPPER RISERS.

"BUILT-IN"
P-5 SHOWER 1005-740 "COPELAND-AMERICAN STANDARD" 2 HANDLE TRIM KIT WITH A R522 "AMERICAN STANDARD" VALVE WITH ADJUSTABLE TEMPERATURE WITH LEVER HANDLES, LESS THAN 2.0 GPM FLOW, LEAD STOP AND HAND HELD SHOWER WITH ADJUSTABLE SLING WALL BAR, HAND HELD SHOWER UNIT 1662-604 "AMERICAN STANDARD".
SHOWER VALVE KLV 80 "SCULLER" 2-Piece Line Stainless Steel TRENCH DRAIN SYSTEM WITH A CENTER OUTLET FOR BOTH TRENCH DRAINS. PROVIDE WITH GRAB BARS, SOAP DISH, SHOWER CURTAIN, AND SHOWER SEAT. (COORDINATE WITH ARCHITECTURAL PLANS)

P-6 ICE MAKER BOX 88510 "GUY GRAY OUTLET BOX, 1/2" QTR TURN LEAD FREE VALVE
P-7 WASHING MACHINE OUTLET BOX (FIRE RATED) BB-200TS GUY GRAY 18 GAUGE HOT DIPPED GALVANIZED STEEL, 1/2" TOP SUPPLY HOT AND COLD WATER.
2" BOTTOM OUTLET DRAIN PIPE.

P-8 WATER HAMMER ARRESTER Z-1700 "ZURN" PDI LISTED SIZES PER DRAWINGS

P-9 FIBERGLASS TUB/SHOWER G320GT5 "AQUARIUS", 60"x32.5"x75" TUB SHOWER WITH FOUR INCH SIMULATED TILE WHITE, CURTAIN ROD, SKID RESISTANT. VINYL SHOWER CURTAIN AND HOOKS
T480-508 "SEVA-AMERICAN STANDARD" TRIM KIT; R120SS "AMERICAN STANDARD" PRESSURE BALANCE VALVE.TUB AND SHOWER VALVE; LESS THAN 2.0 GPM MAXIMUM FLOW

P-10 FLOOR DRAIN Z-415B-P "ZURN" FLOOR DRAIN DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH STRAINER (ALSO TO INCLUDE A "TRAP GUARD" DRINK INSERT PROTECTION DEVICE)

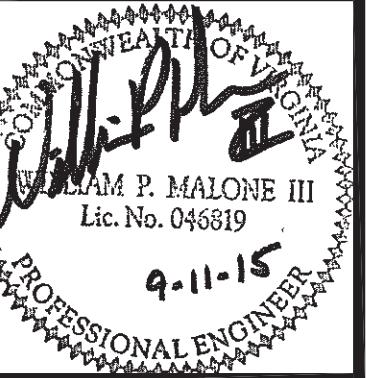
P-11 DOMESTIC BACKFLOW PREVENTER LE909 - "WATTS" 1" BACKFLOW PREVENTER
223 - "WATTS" PRESSURE REDUCING VALVE.

P-12 WALL HYDRANT (BOX) Z-1320 "ZURN" ANTI-SIPHON AUTOMATIC DRAINING WALL HYDRANT COMPLETE WITH NON-FREEZE INTEGRAL BACKFLOW PREVENT, COPPER CASING, ALL BRONZE INTERNAL PARTS, 1/2 TURN CERAMIC DISC CARTRIDGE, STAINLESS STEEL FACE PLATE WITH OPERATING KEY LOCK.

NOTE: HANDICAPPED UNITS TO BE MOUNTED CONFORMING TO CURRENT A.D.A. GUIDELINES FOR ACCESSIBILITY

FIXTURE CONNECTION SCHEDULE

P-#	NO.	DESCRIPTION	H.W.	C.W.	TRAP	WASTE	VENT
P-1		WATER CLOSET (H.C.)	--	1/2"	3"	3"	2"
P-1A		WATER CLOSET (LEFT-HANDED)	--	1/2"	3"	3"	2"
P-2		LAUNDRY (H.C.)	1/2"	1/2"	1 1/4"	2"	1 1/2"
P-3		LAVATORY	1/2"	1/2"	1 1/4"	2"	1 1/2"
P-4		SINK	1/2"	1/2"	1 1/2"	2"	1 1/2"
P-5		SHOWER VALVE	1/2"	1/2"	2"	2"	1 1/2"
P-6		ICE MAKER BOX	--	1/2"	--	--	--
P-7		WASHING MACHINE BOX	1/2"	1/2"	2"	2"	1 1/2"
P-8		WATER HAMMER ARRESTER	--	--	--	--	--
P-9		TUB/SHOWER	1/2"	1/2"	2"	2"	1 1/2"
P-10		FLOOR DRAIN	--	1/2"	3"	3"	2"
P-11		BACKFLOW PREVENTER	--	1"	--	--	--
P-12		WALL HYDRANT	--	3/4"	--	--	--

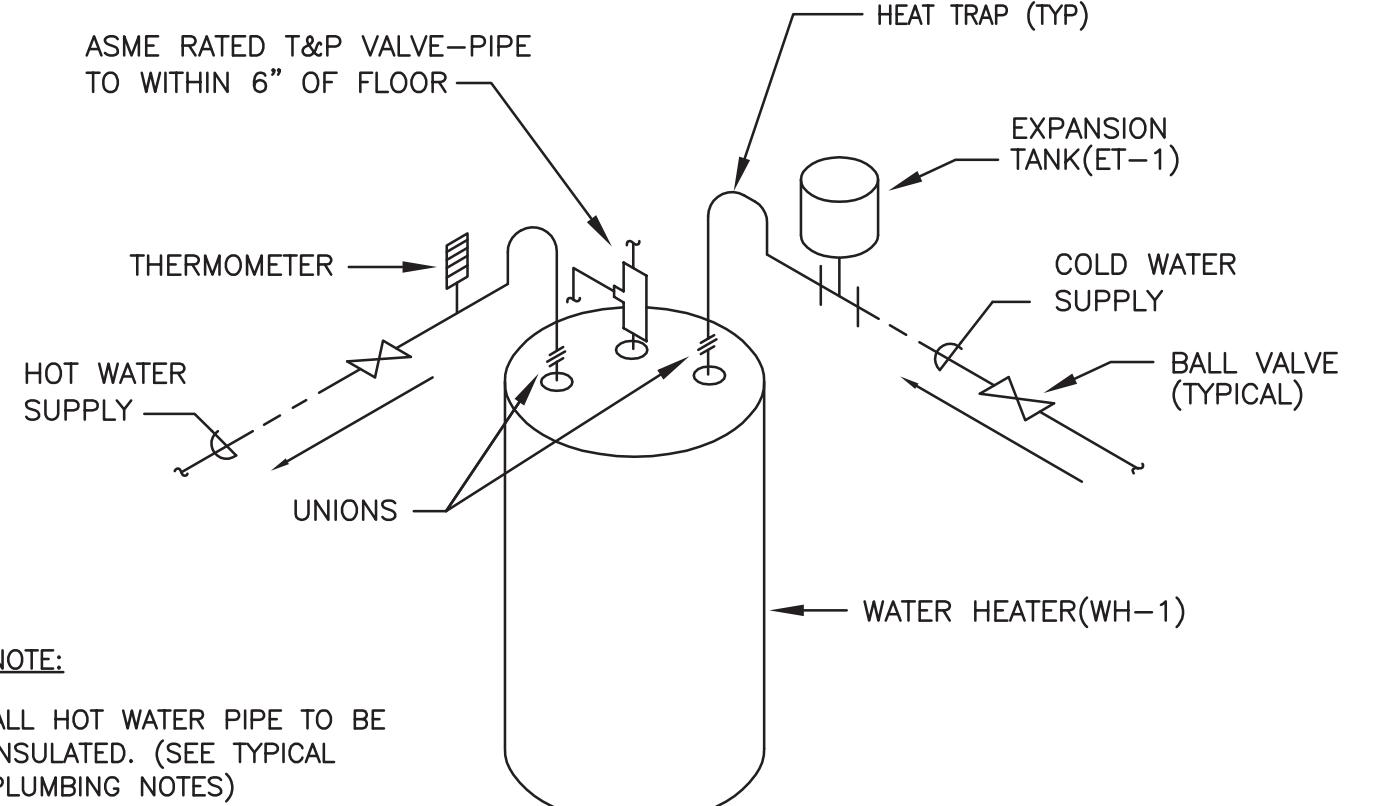
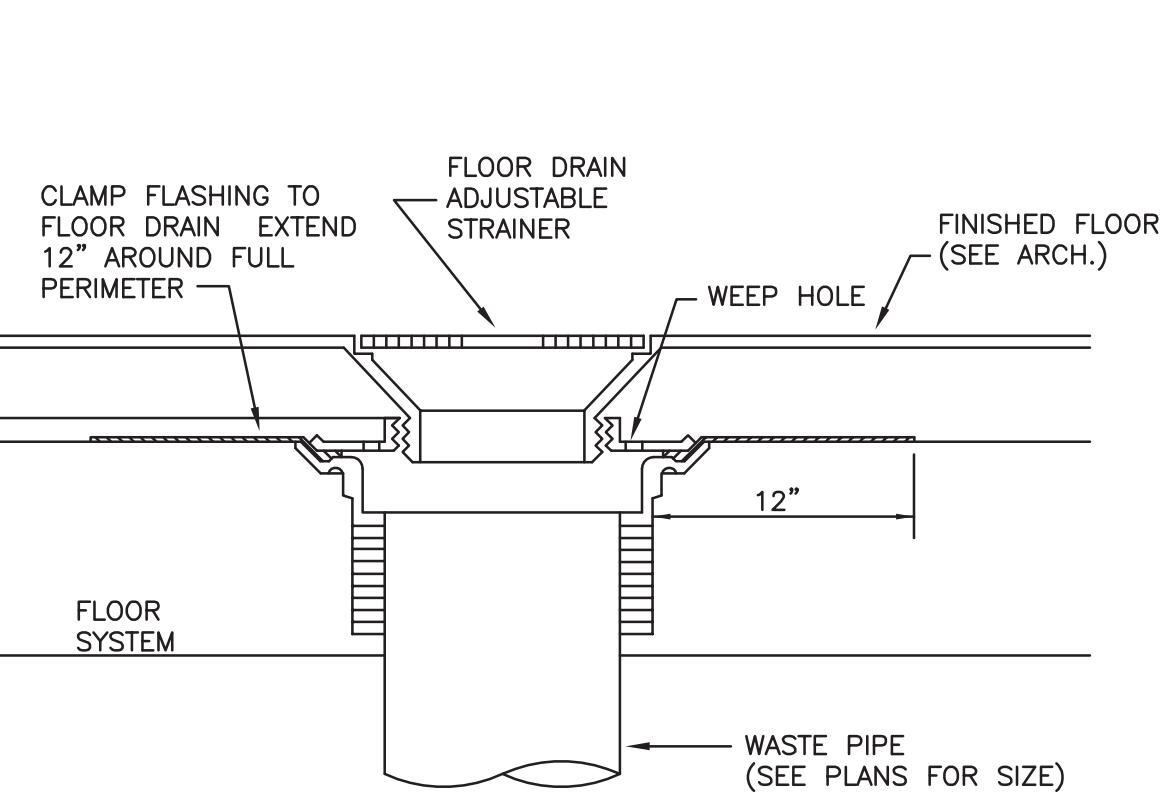
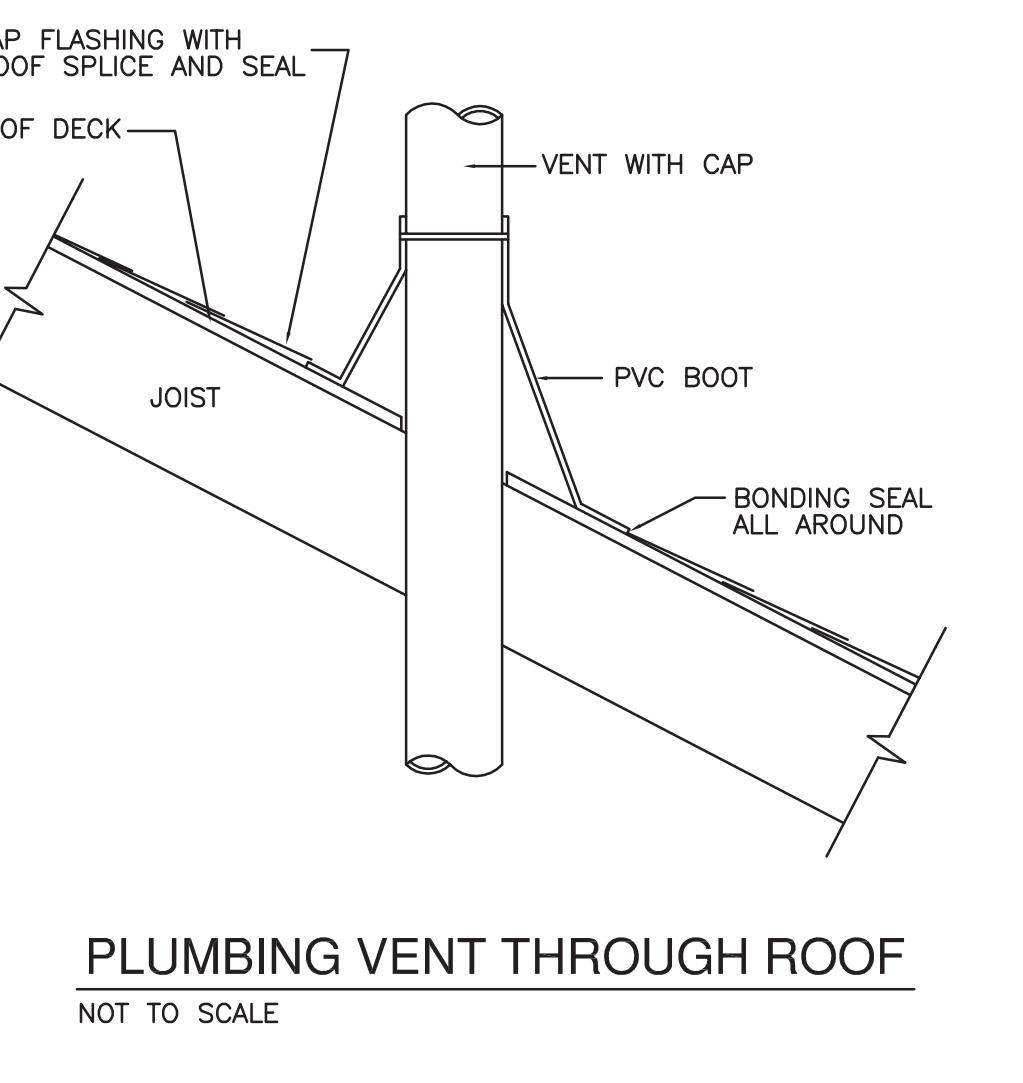
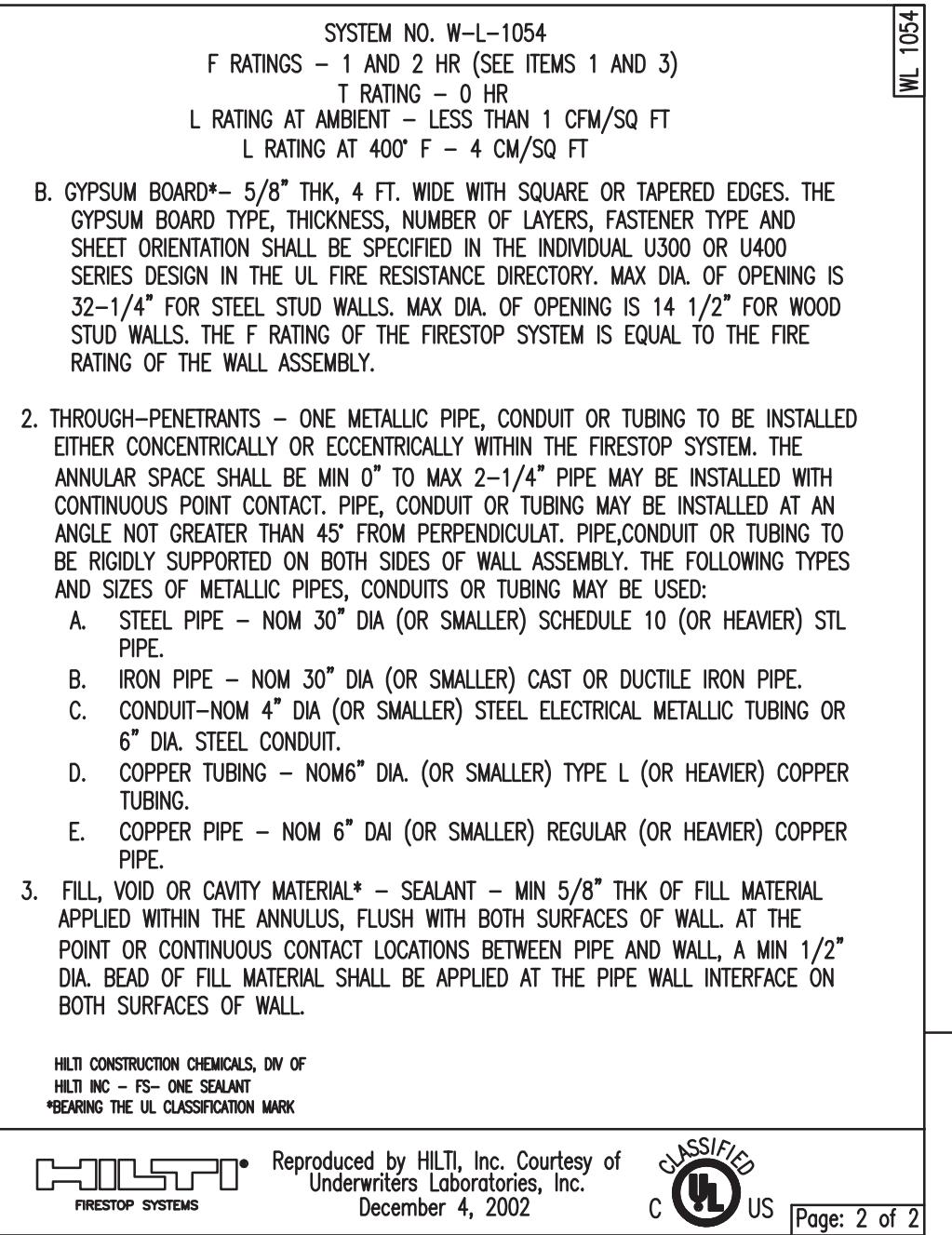
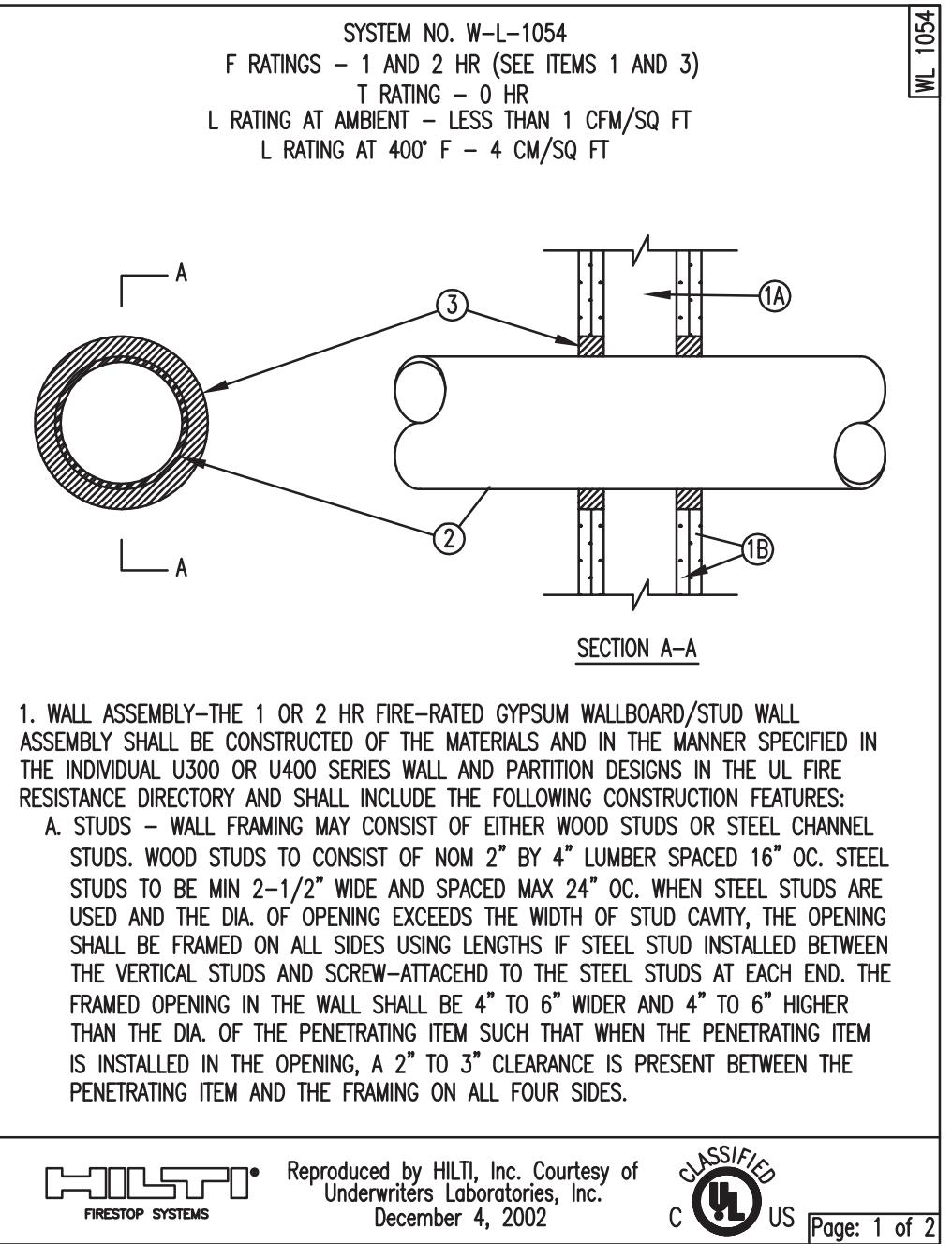


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9-11-15
PROFESSIONAL ENGINEER

BRISTOL REDEVELOPMENT & HOUSING AUTHORITY THE VILLAGE AT OAKVIEW BRISTOL, VIRGINIA

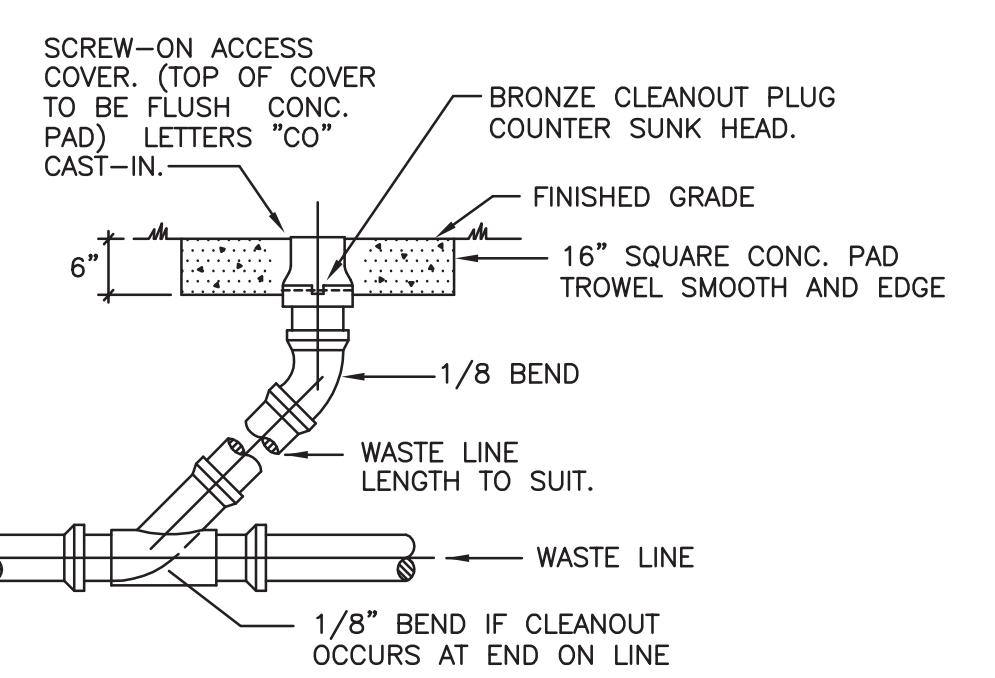
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BUILDING A-D PLUMBING DETAILS



WATER HEATER SCHEDULE					
HEATER NO.	GAL. CAP.	KW.	VOLTAGE	RECOVERY @ 90° RISE	MANUFACTURER AND MODEL NO.
WH-1	40	4.5	240/1	21	RHEEM PRO-E40 2 RH95 EC1 HVAC CLOSET

EXPANSION TANK(ET-1) - AO SMITH PMC-2

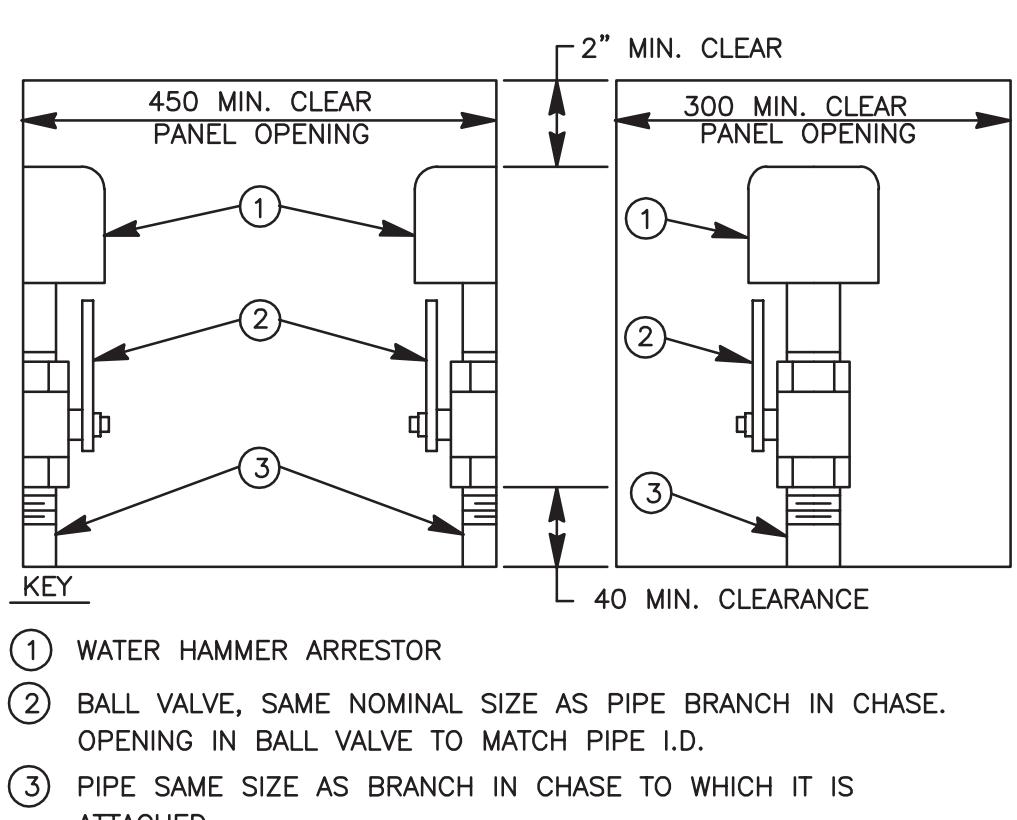
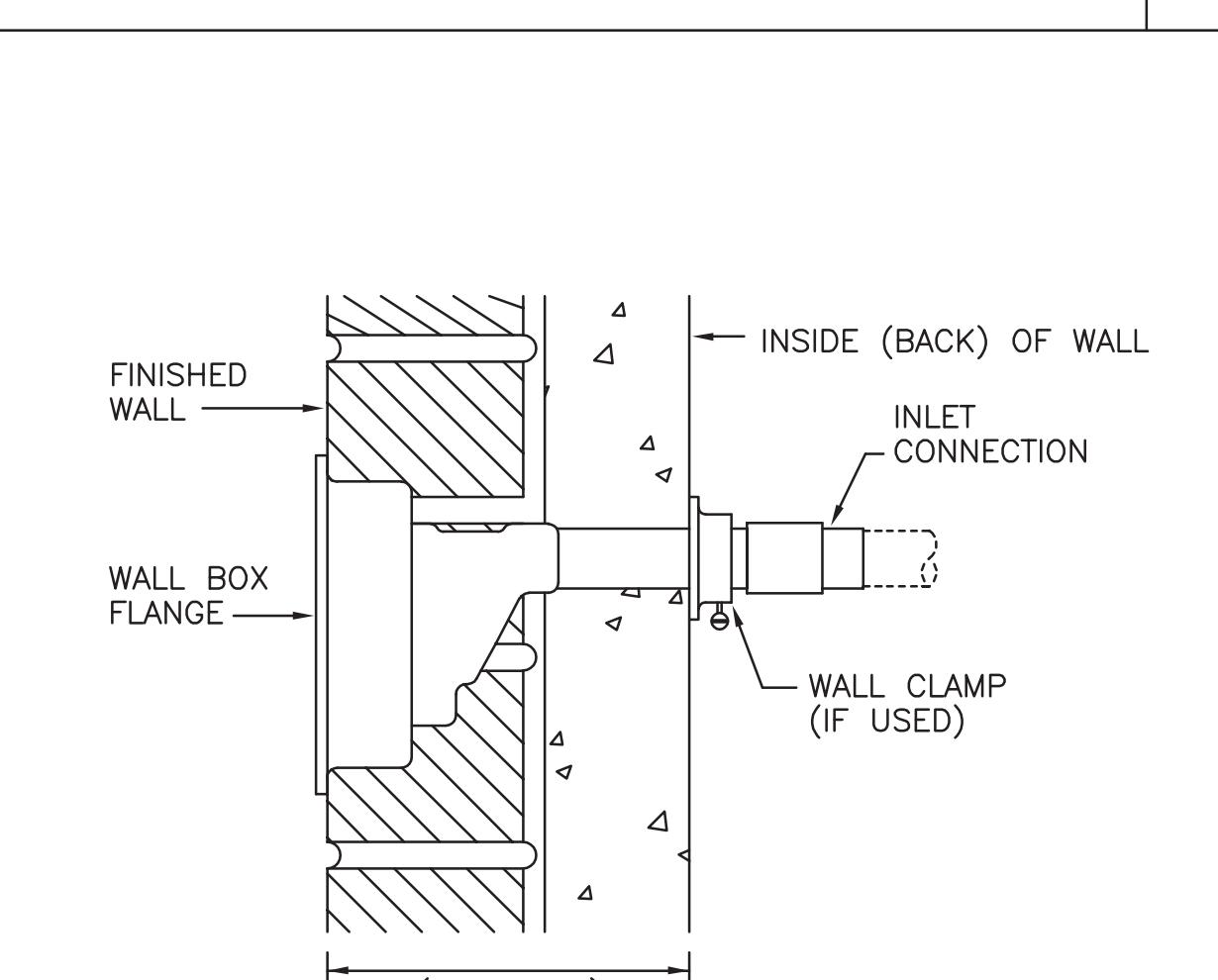
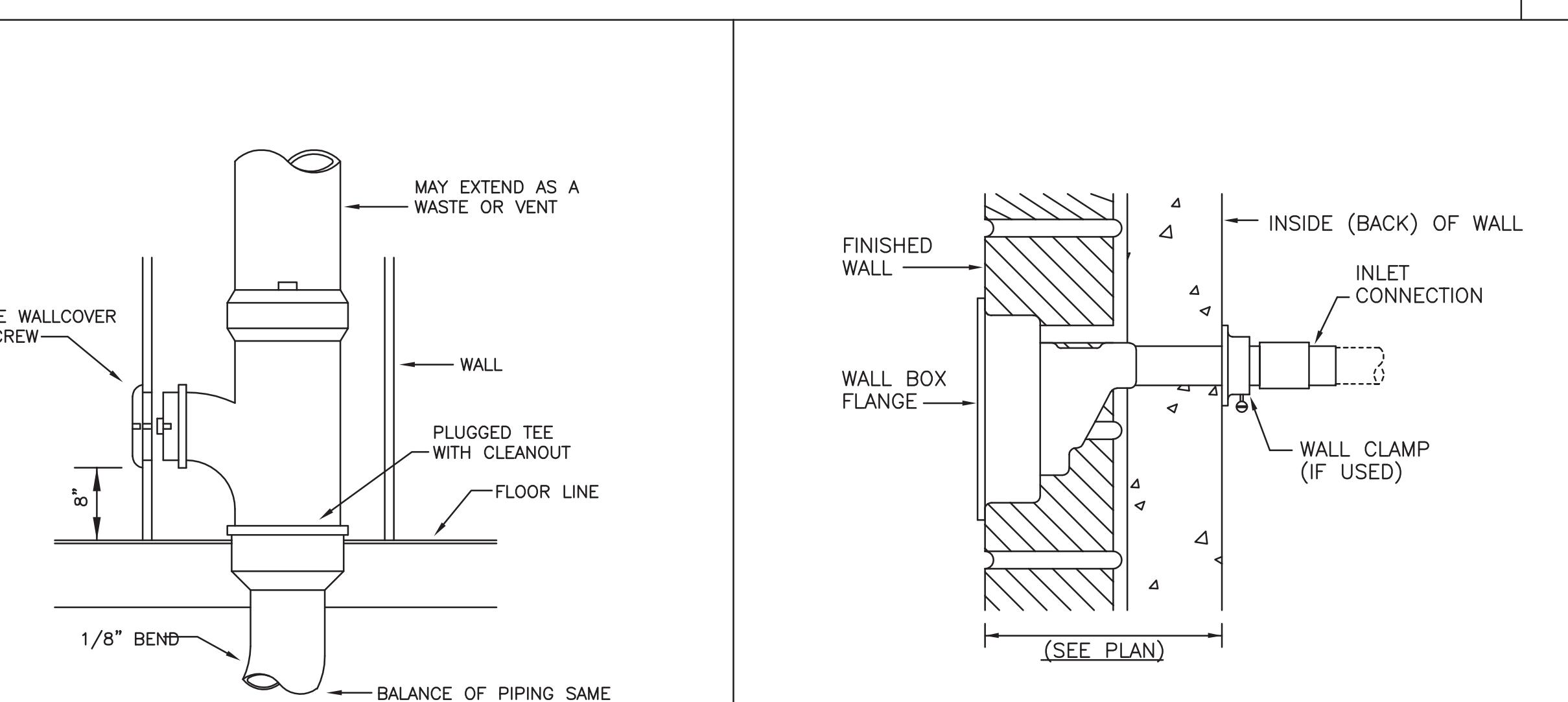
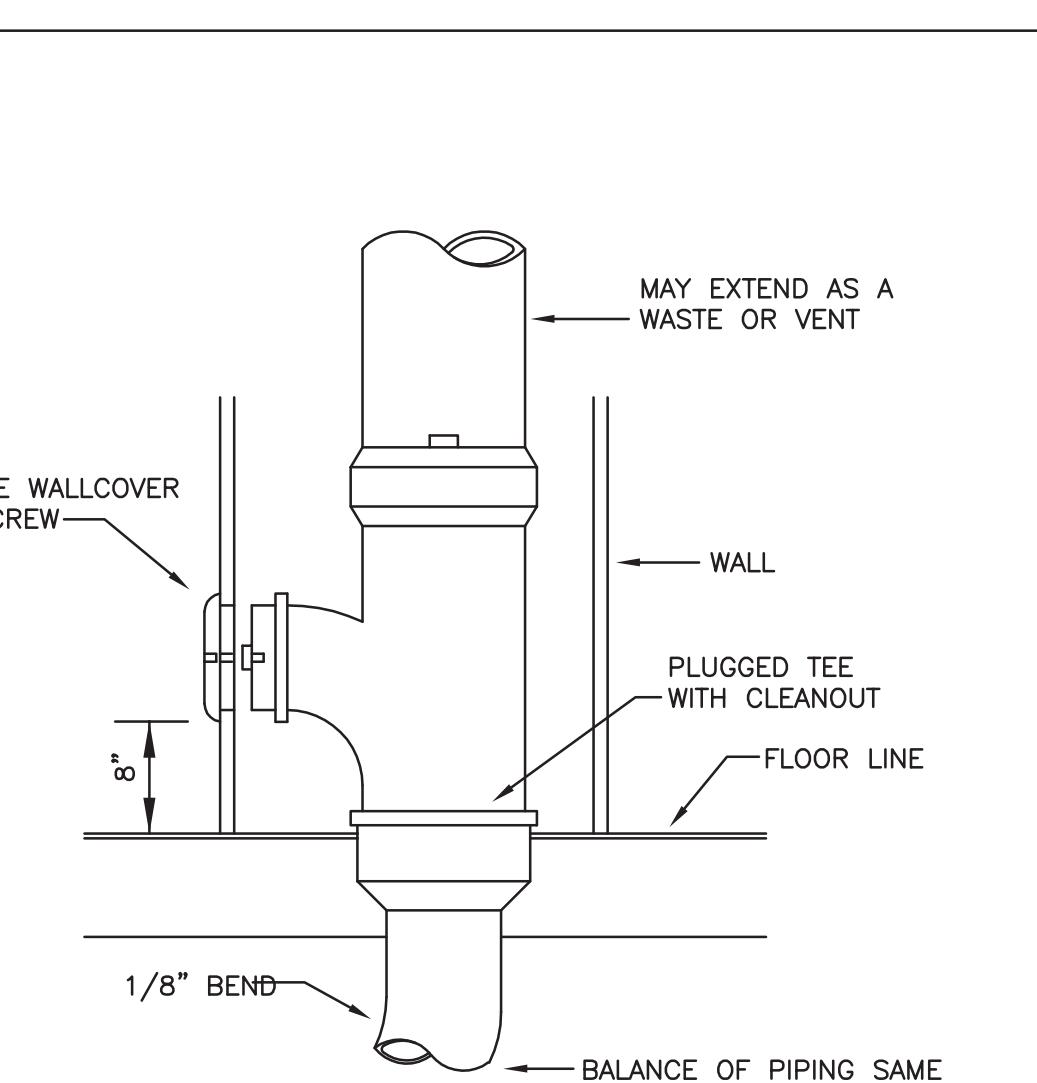
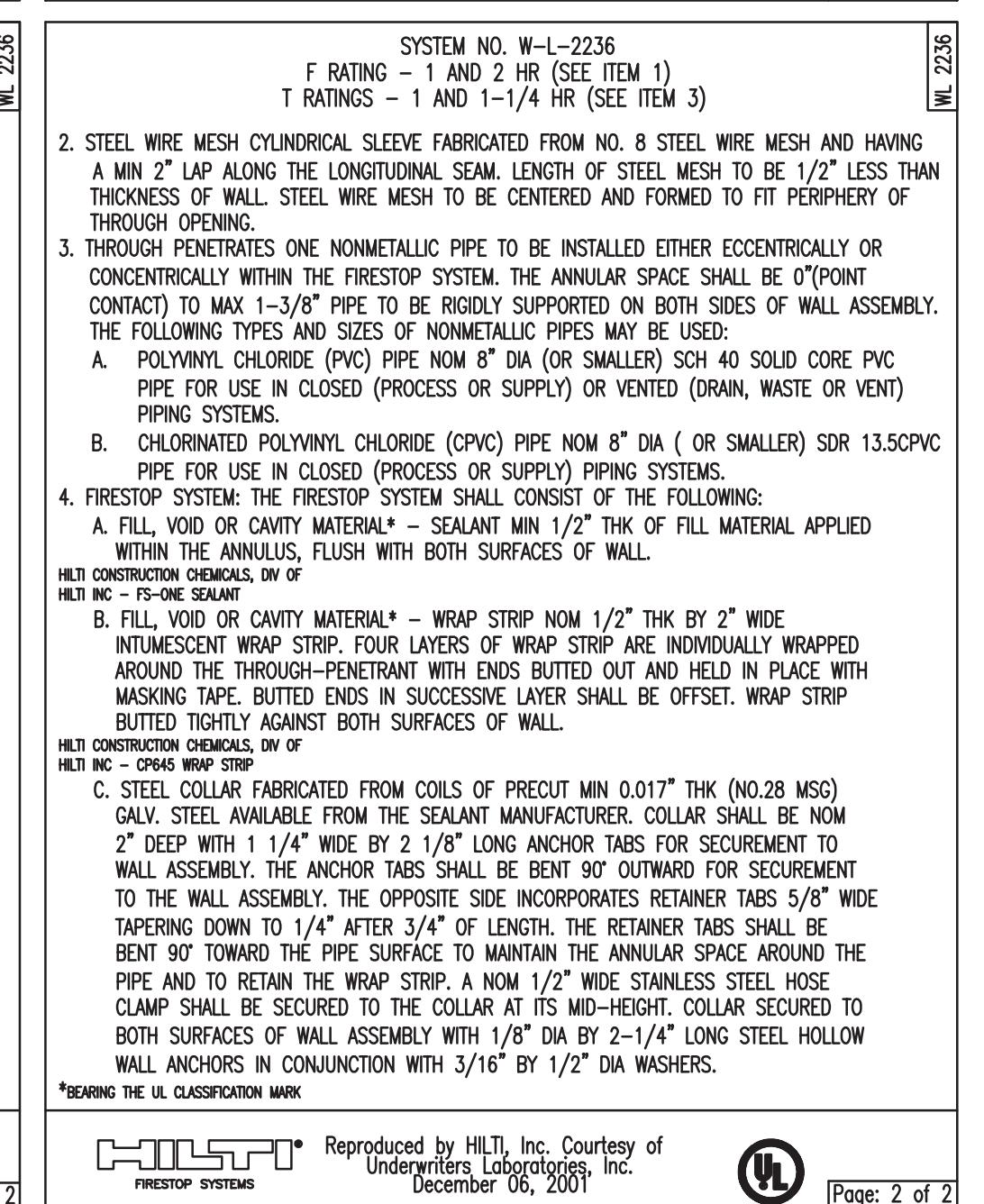
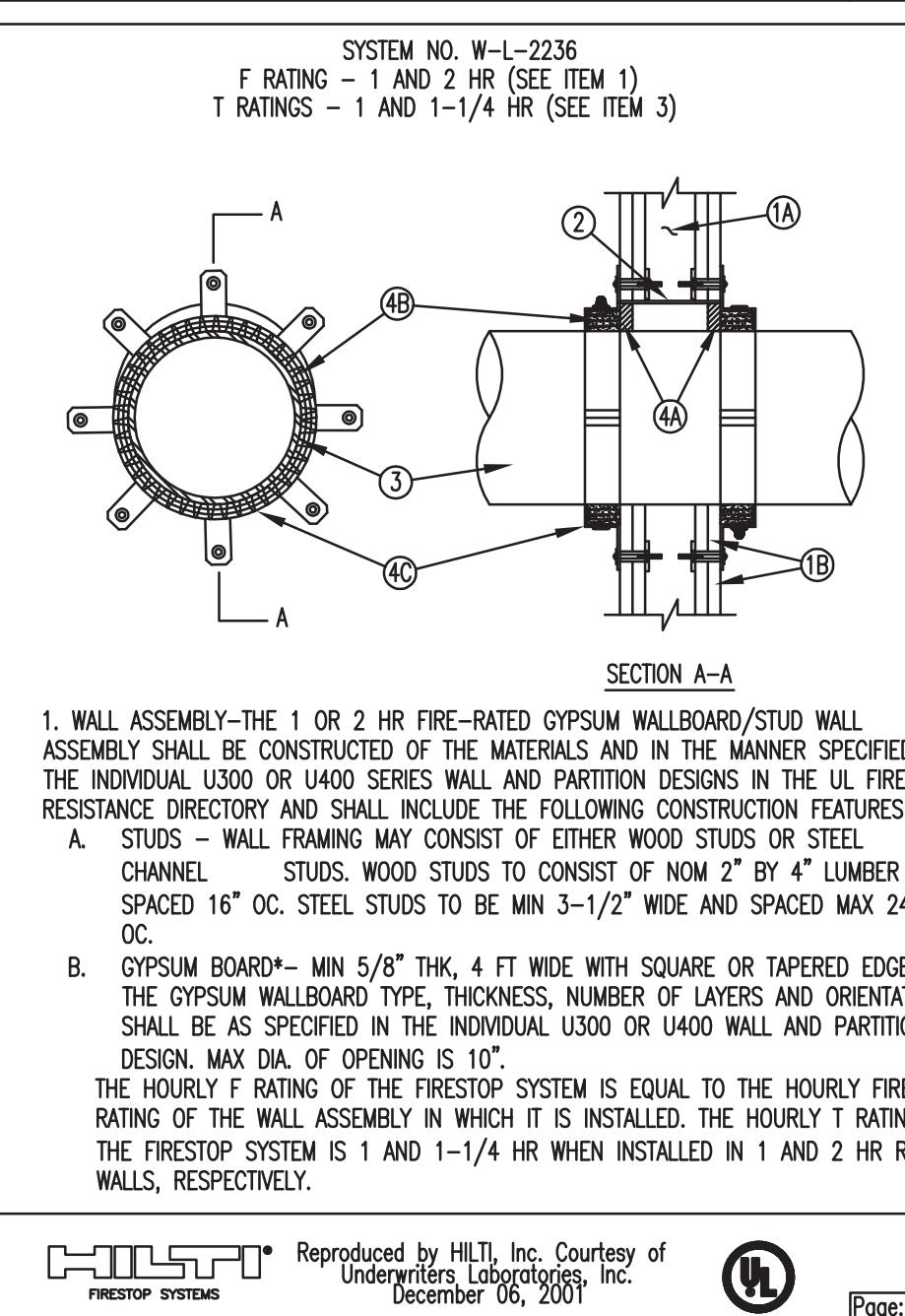
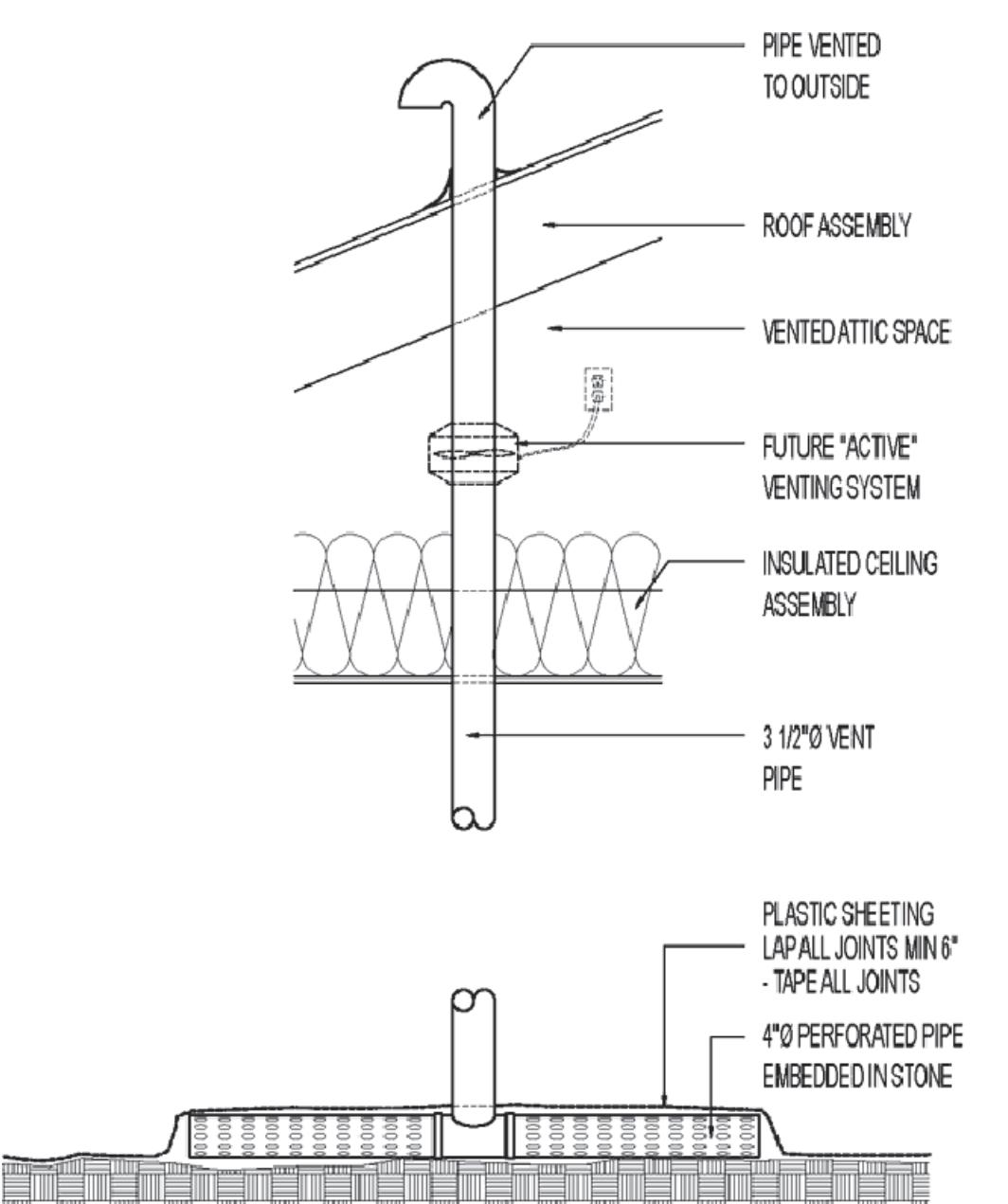


CLEANOUT SCHEDULE

(TURN LISTED)

- (1) EXTERIOR (NON-VEHICULAR TRAFFIC AREA) Z-1400 CAST IRON BODY AND ROUND COVER, NEO-LOC NEOPRENE GASKET PIPE CONNECTION
- (2) EXTERIOR (VEHICULAR TRAFFIC AREA) Z-1400HD CAST IRON BODY AND ROUND HEAVY DUTY COVER, NEO-LOC NEOPRENE GASKET PIPE CONNECTION
- (3) INTERIOR (FINISHED CONCRETE FLOORS) ZN-1400 CAST IRON BODY AND ROUND NICKEL BRONZE COVER, NEO-LOC NEOPRENE GASKET CONNECTION
- (4) INTERIOR (CERAMIC TILE FLOORS) ZN-1400-T CAST IRON BODY AND SQUARE NICKEL BRONZE COVER, NEO-LOC NEOPRENE GASKET PIPE CONNECTION
- (5) INTERIOR (RESILIENT TILE FLOORS) ZN-1400-X CAST IRON BODY AND SQUARE NICKEL BRONZE COVER, NEO-LOC NEOPRENE GASKET PIPE CONNECTION
- (6) NOTE: USE CLAMPING DEVICE ON CLEANOUTS THAT OCCUR IN FLOORS HAVING WATERPROOF MEMBRANE.

- NOTES:**
- CONTRACTOR IS TO INCLUDE AN INLINE "RADON AWAY" FAN RP380" OR EQUAL FOR THE RADON VENTILATION SYSTEM. CONTRACTOR IS TO MAKE SURE THAT THE POWER IS PROVIDED TO THE UNIT.
 - PERFORATED PIPE AND "T" ARE SHOWN UNDER THE SLAB AND EMBEDDED WITHIN THE STONE BASE OF THE BUILDING SLAB.
 - FINAL DESIGN OF RADON SYSTEM IS TO BE COMPLETED BY A RADON PROFESSIONAL.



P.D.I SYMBOL	Fixture Units	Chamber Length	Sweat Connection
A	1-11	9 5/8"	1/2"
B	12-32	11 3/4"	3/4"
C	33-60	14 11/16"	1"
D	61-113	12 3/8"	1"
E	114-154	15 3/8"	1"
F	155-330	17 3/8"	1"

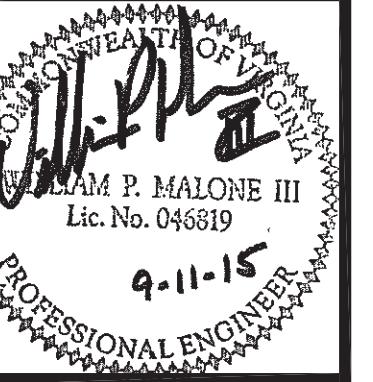
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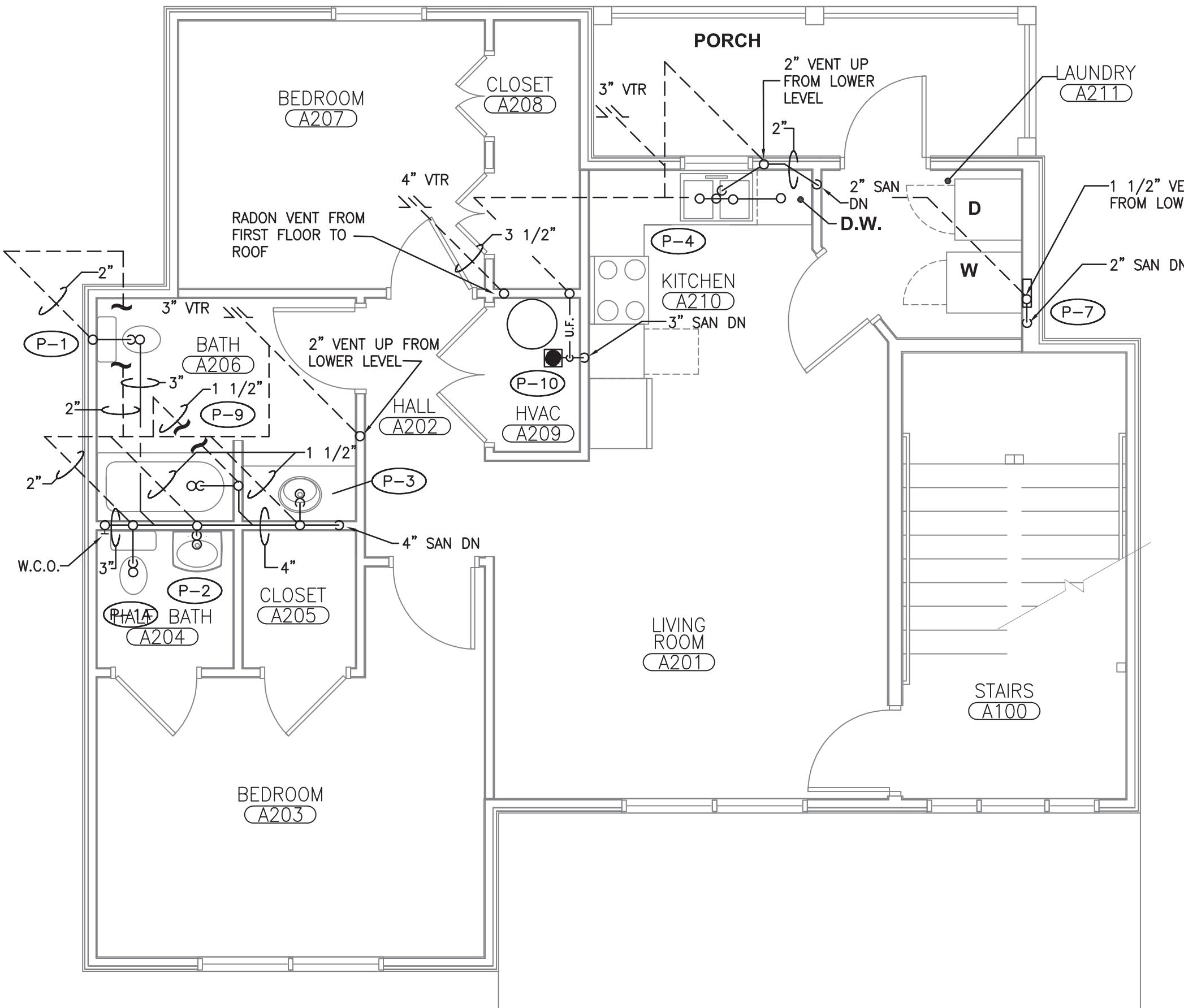
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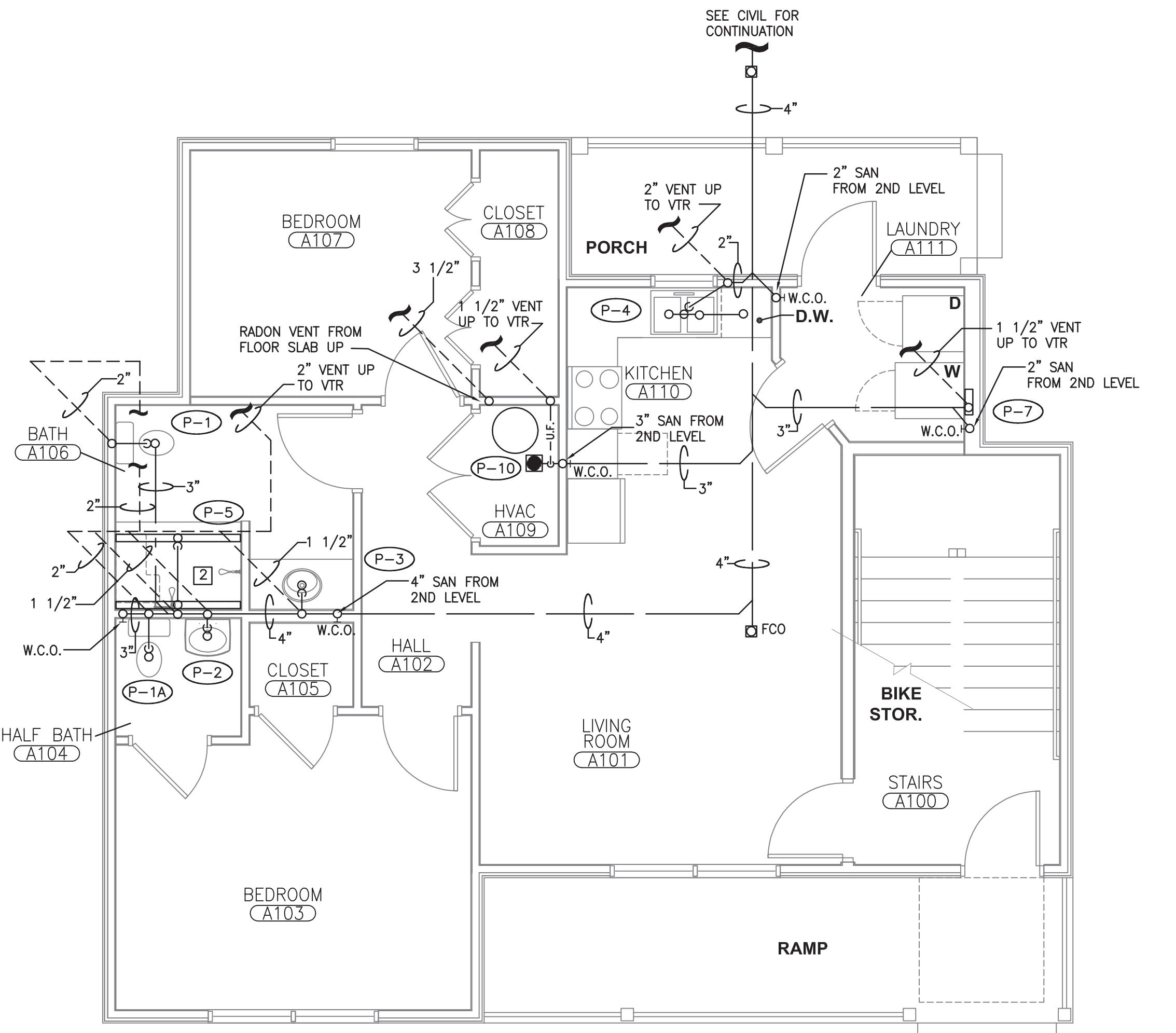


**BRISTOL REDEVELOPMENT & HOUSING AUTHORITY
THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA
BRHA - TVO-14600.MF.0915
BUILDING A
PLUMBING WASTE & VENT**



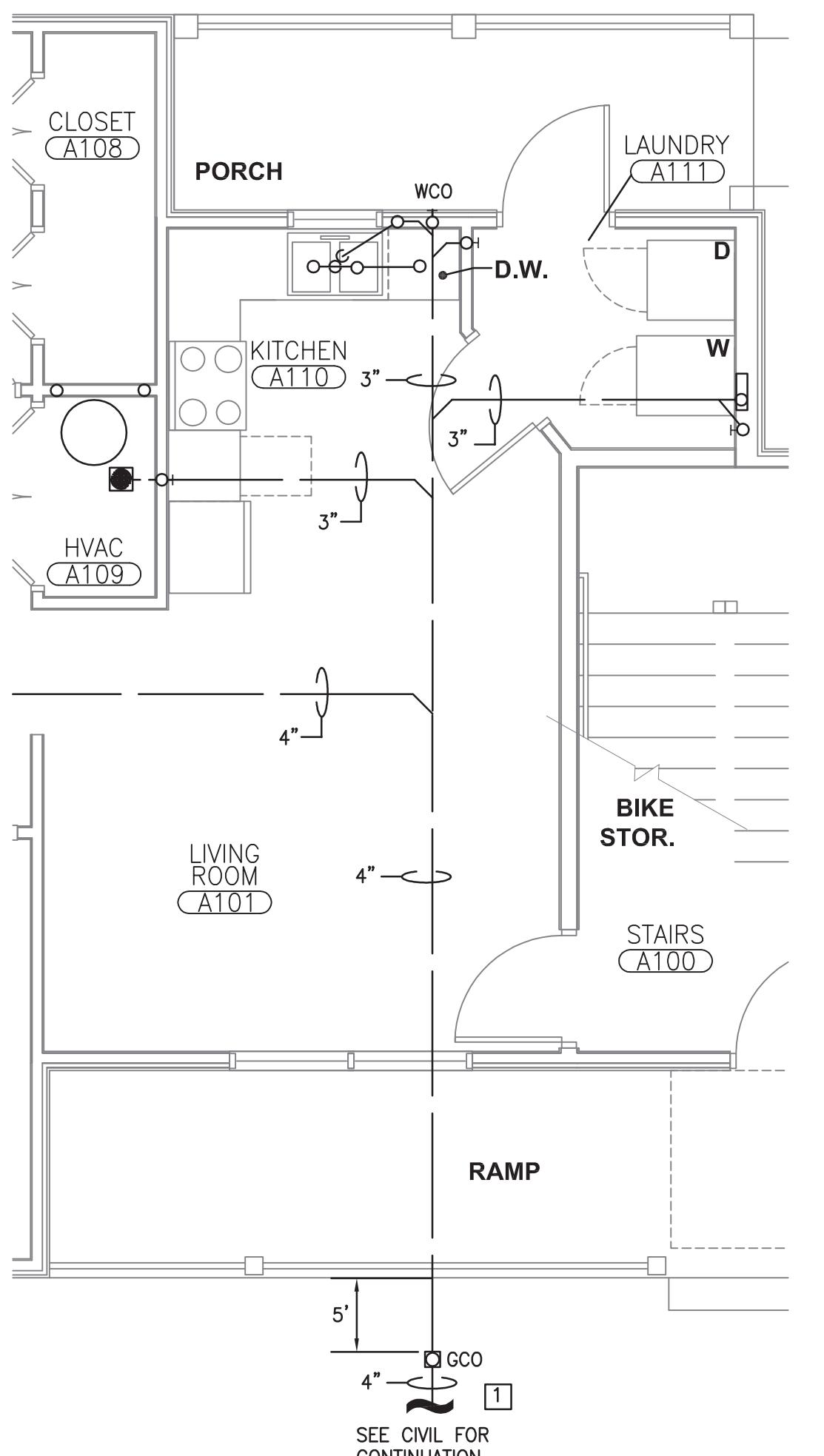
TYPE-A BUILDING – UPPER LEVEL

SCALE: 1/4"=1'-0"



TYPE-A BUILDING – LOWER LEVEL

SCALE: 1/4"=1'-0"



ALTERNATE LOWER LEVEL

SCALE: 1/4"=1'-0"

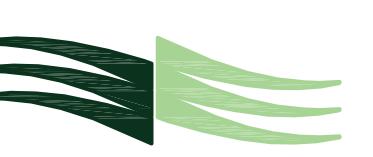
WASTE & VENT NOTES:

1. CONTRACTOR IS TO COORDINATE WITH CIVIL SITE PLANS TO DETERMINE IF THE WASTE IS TO EXIT IN THE FRONT OR THE REAR OF BUILDINGS.
2. COORDINATE THE LOCATION OF THE SHOWER TRENCH DRAINS WITH THE ARCHITECTURAL PLAN.

PLUMBING LEGEND

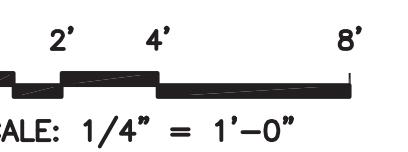
— — —	SANITARY
- - -	VENT
--U.F.--	UNDER FLOOR VENT (1 1/2" TYP.)
V.T.R.	VENT THRU ROOF
—OR—	PIPE TURN DOWN
—OR—	PIPE TURN UP
C.O.	CLEANOUT
G.C.O.	GRADE CLEANOUT
F.C.O.	FLOOR CLEANOUT

Project No.
12655-05

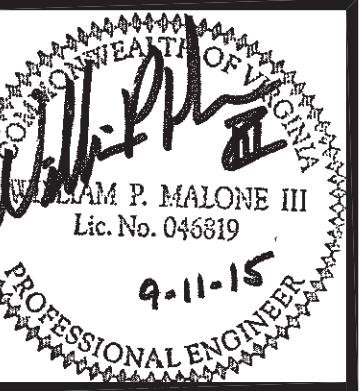


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P101A



SCALE: 1/4" = 1'-0"



BRISTOL REDEVELOPMENT & HOUSING AUTHORITY
THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA
BRHA - TVO-1460.00.MF.0915

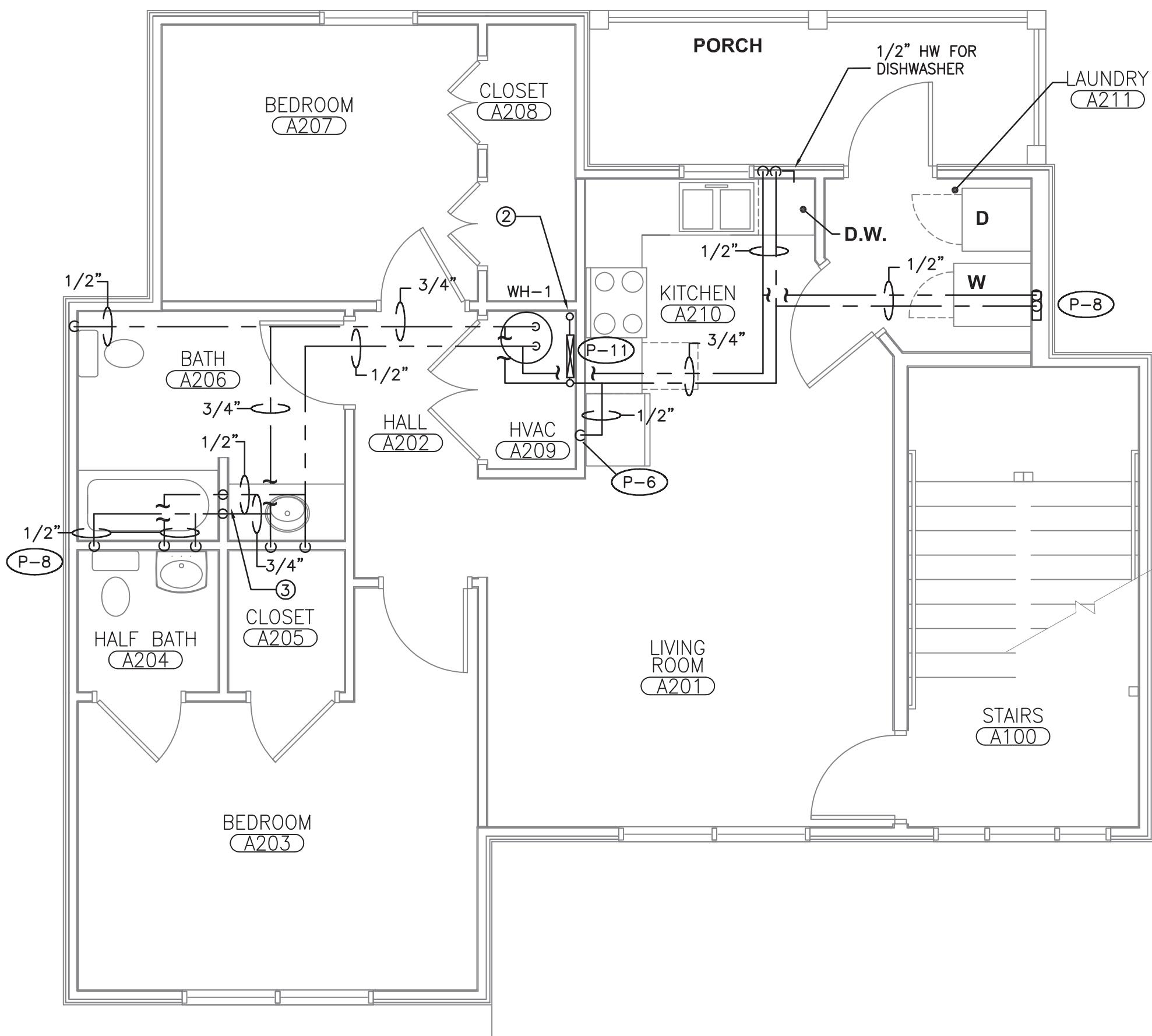
BUILDING A
PLUMBING WATER SUPPLY

Designed	JMO
Drawn	JMO
Checked	WPM
Date	SEP. 11, 2015
File No.	

Project No.
12655-05

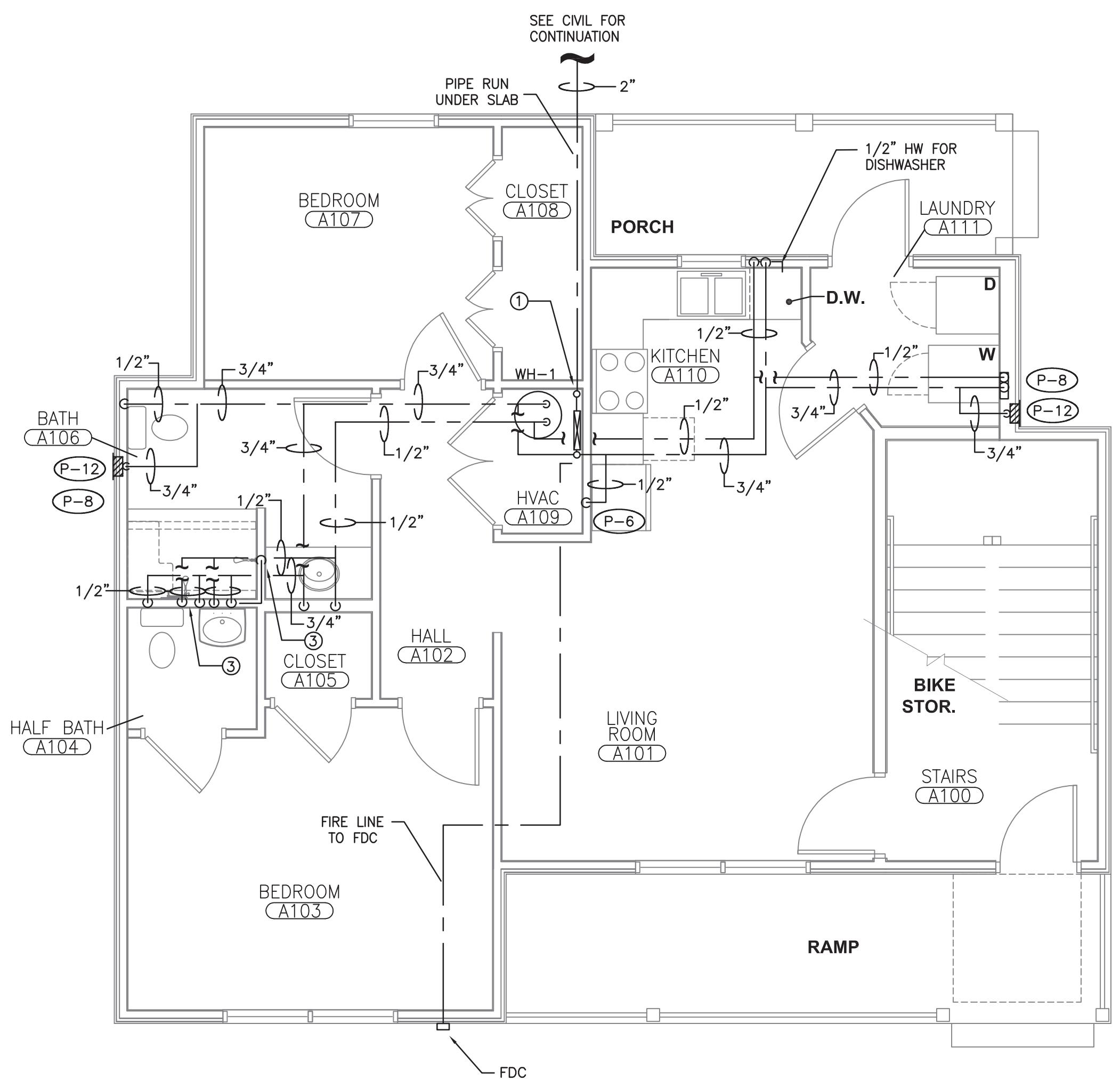
A decorative graphic element at the bottom of the page. It features three curved bands side-by-side. The leftmost band is dark green with fine horizontal lines. The middle band is light green with similar horizontal lines. The rightmost band is white with thin black outlines.

PI02A



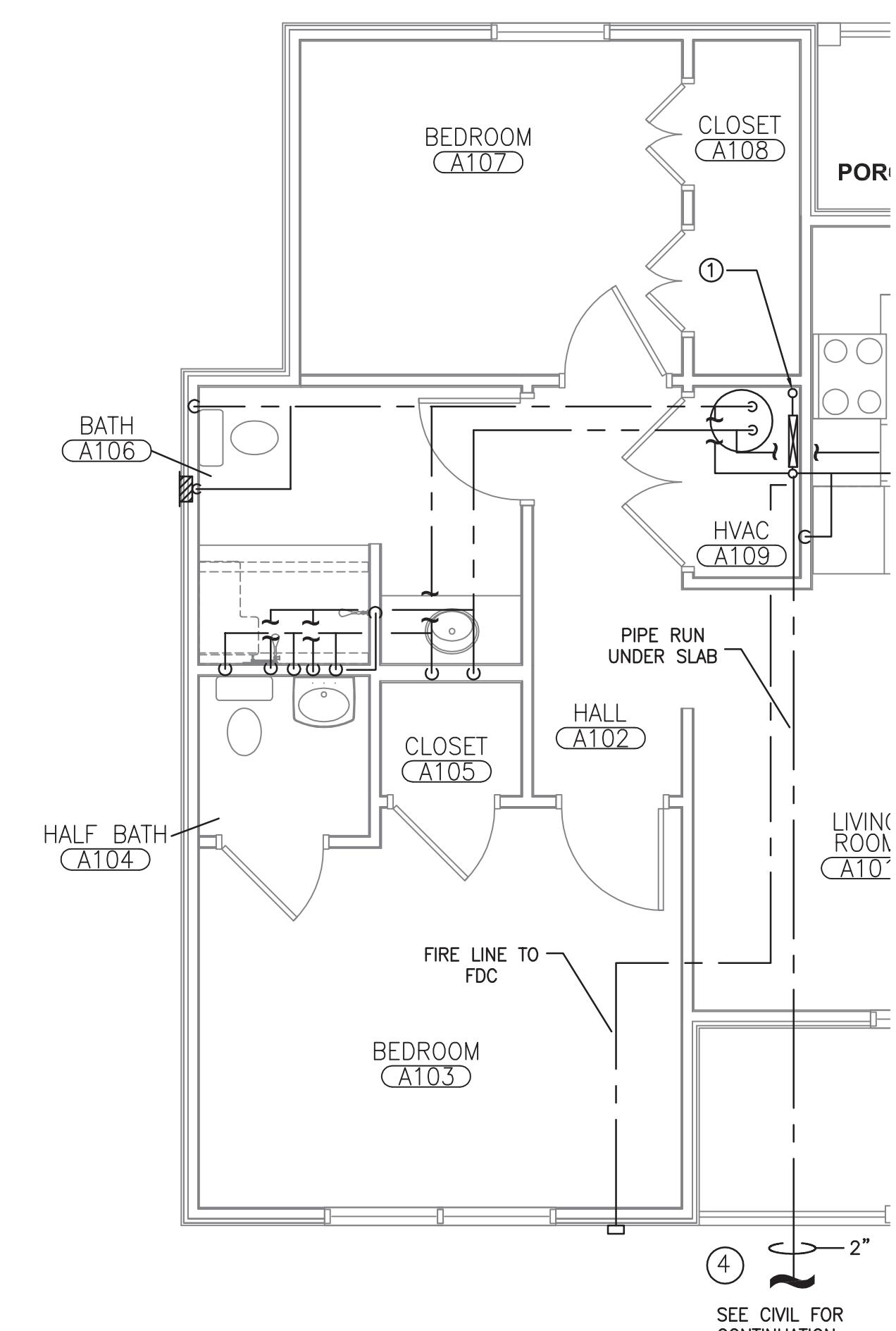
TYPE-A BUILDING – UPPER LEVEL

SCALE: 1/4" = 1'-0"



TYPE-A BUILDING – LOWER LEVEL

SCALE: 1/4"=1'-0"



ALTERNATE LOWER LEVEL

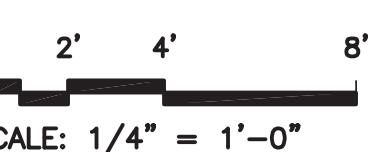
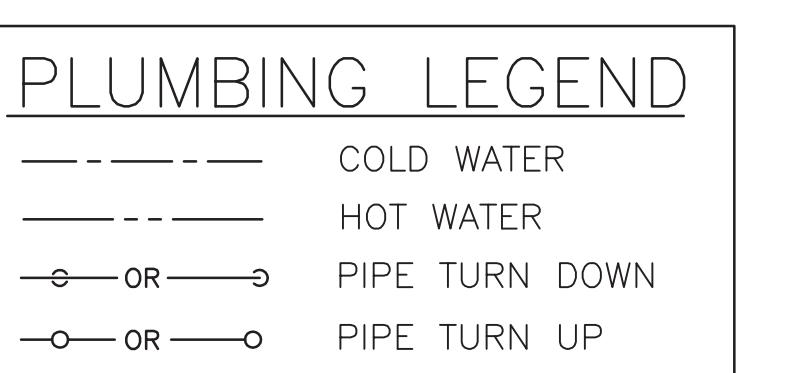
SCALE: 1/4" = 1'-0"

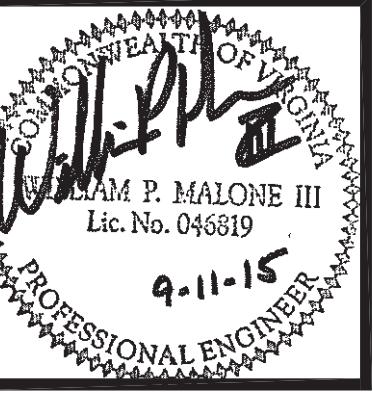
WATER NOTES:

1. 2" WATER TO COME UP TO CLOSET FROM BELOW SLAB. 2" FIRE WATER TAP IS TO BE TAKEN OFF MAIN LINE. 1" DOMESTIC IS TO BE TAPPED OFF OF MAIN LINE. 1" DOMESTIC TO CONTINUE ON THE SECOND LEVEL. (SEE DETAIL ON P001)
 2. 1" DOMESTIC WATER UP FROM FIRST LEVEL.
 3. CONTRACTOR IS TO INSTALL SHUT-OFF VALVES FOR THE SHOWER VALVES. ACCESS PANEL WILL BE REQUIRED IN THE WALL. CONTRACTOR IS TO COORDINATE THE LOCATION OF ACCESS PANELS WITH THE ARCHITECTURAL PLAN
 4. CONTRACTOR IS TO COORDINATE WITH CIVIL SITE PLANS TO DETERMINE IF THE WATER IS TO ENTER THE BUILDING IN THE

ADDITIONAL NOTES

CONTROLS FOR THE ADA SHOWERS ARE TO BE ON THE BACK OF THE SHOWER (BACK FROM THE SHOWER OPENING). THE WATER PIPE FOR THE SHOWER HEAD IS TO BE ROUTED AROUND THE WALL AND BE ON THE WALL ADJOINING THE LAVATORY. COORDINATE WITH THE ARCHITECTURAL PLANS.





**BRISTOL REDEVELOPMENT & HOUSING AUTHORITY
THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA**

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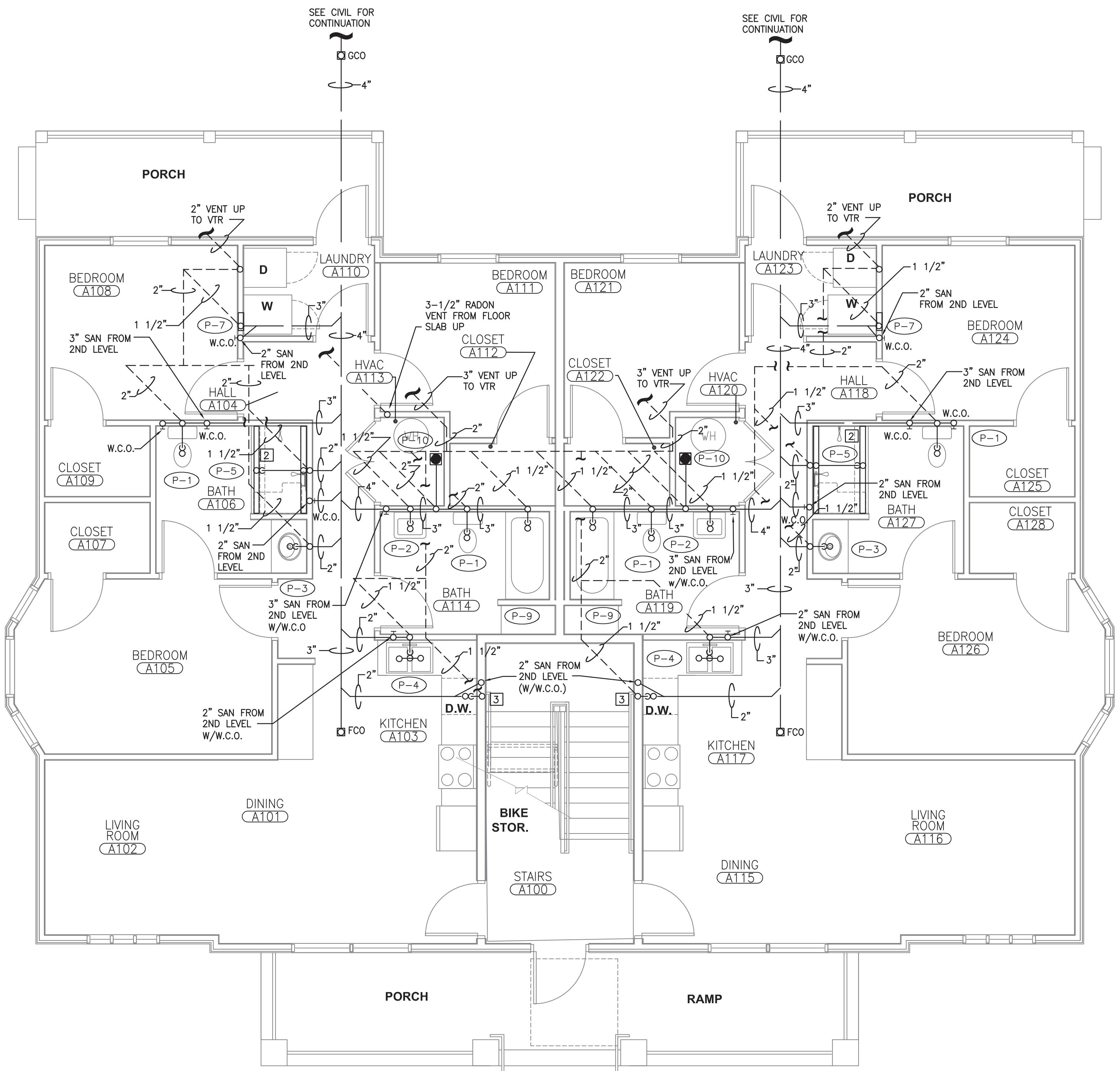
**BUILDING B LOWER LEVEL
PLUMBING WASTE & VENT**

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Checked	WPM
Date	SEP. 11, 2015
File No.	

Project No.
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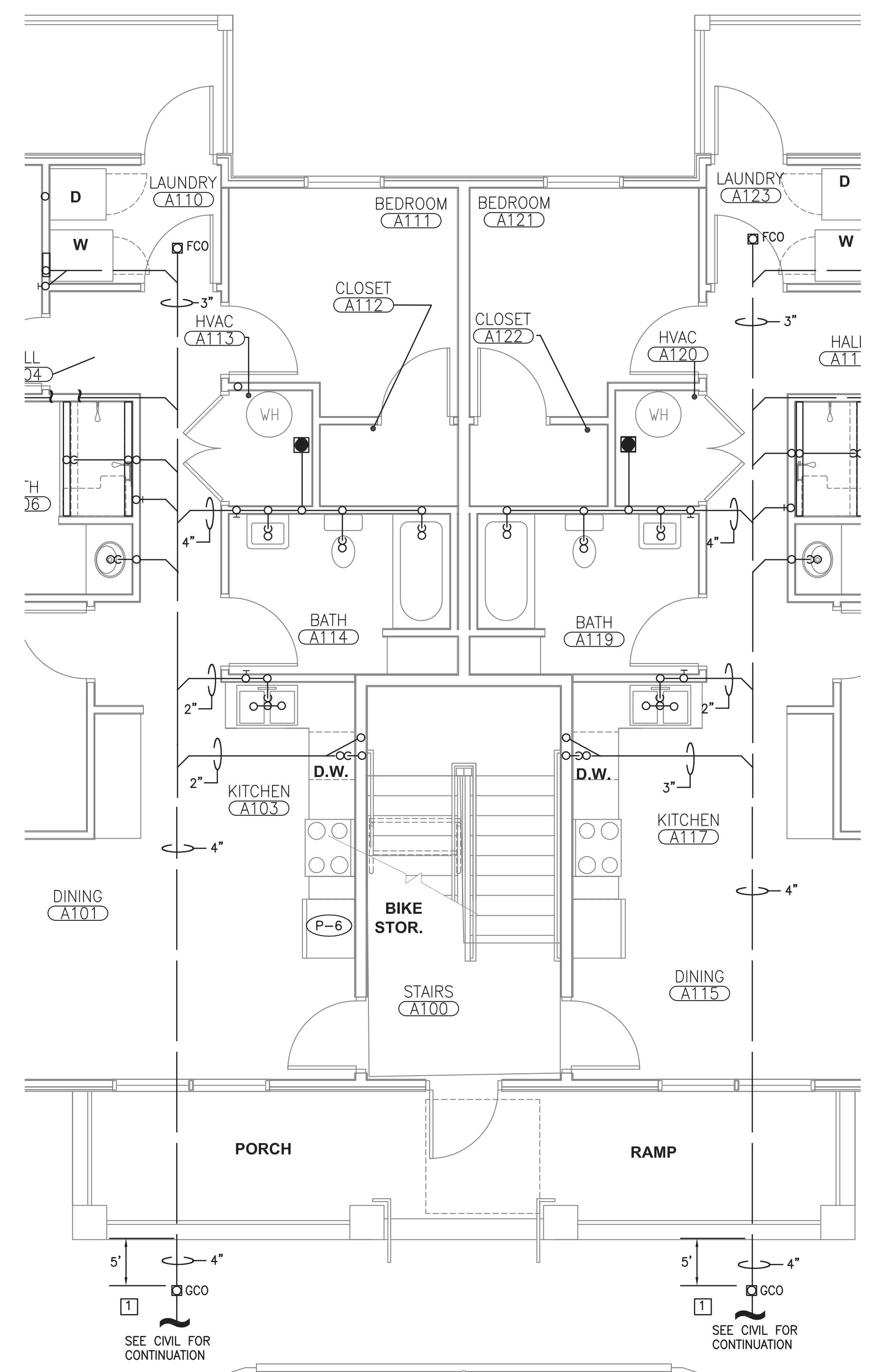
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TYPE-B BUILDING – LOWER LEVEL

SCALE: 1/4"=1'-0"

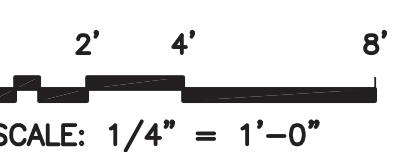


ALTERNATE LOWER LEVEL

SCALE: 1/4"=1'-0"

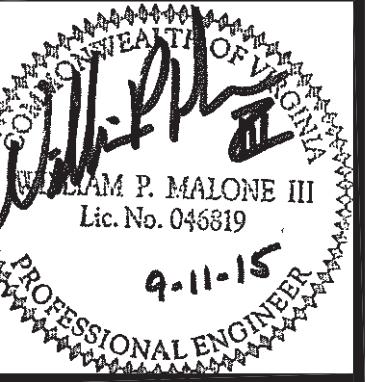
PLUMBING LEGEND

— — — —	SANITARY
— — — — —	VENT
— — — U.F. — —	UNDER FLOOR VENT (1 1/2" TYP.)
V.T.R.	VENT THRU ROOF
— ◎ — OR — ◎ —	PIPE TURN DOWN
○ — OR — ○ —	PIPE TURN UP
— — — ○ — —	CLEANOUT
— — — □ — —	GRADE CLEANOUT
— — — □ — —	FLOOR CLEANOUT
F.C.O.	

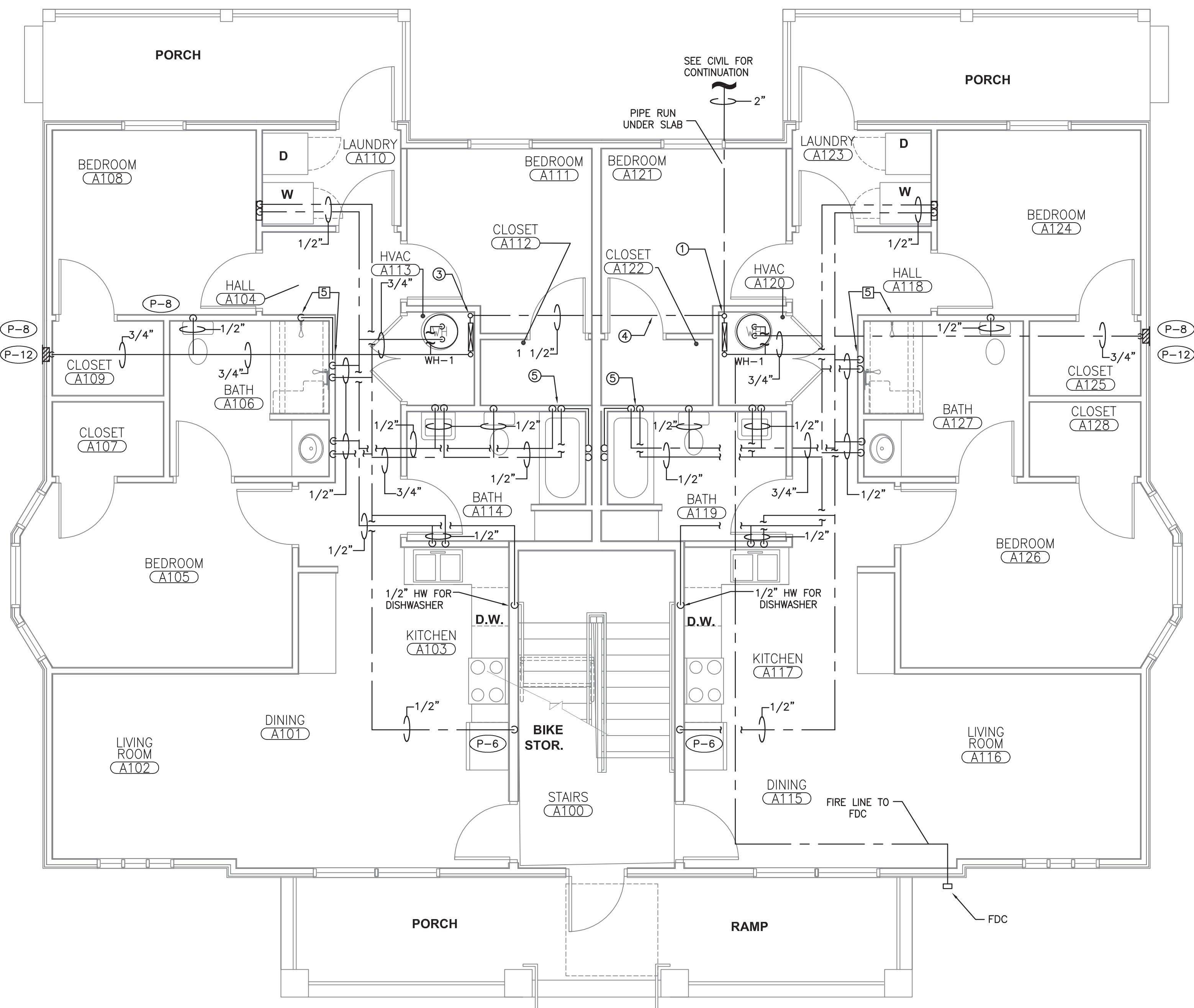


WASTE & VENT NOTES:

1. CONTRACTOR IS TO COORDINATE WITH CIVIL SITE PLANS TO DETERMINE IF THE WASTE IS TO EXIT IN THE FRONT OR THE REAR OF BUILDINGS.
 2. COORDINATE THE LOCATION OF THE SHOWER TRENCH DRAINS WITH THE ARCHITECTURAL PLAN.
 3. OPEN HUB DRAIN.



**BRISTOL REDEVELOPMENT & HOUSING AUTHORITY
THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA
BRHA - TVO-1460-00.MF.0915
BUILDING B LOWER LEVEL
PLUMBING WATER SUPPLY**



TYPE-B BUILDING - LOWER LEVEL

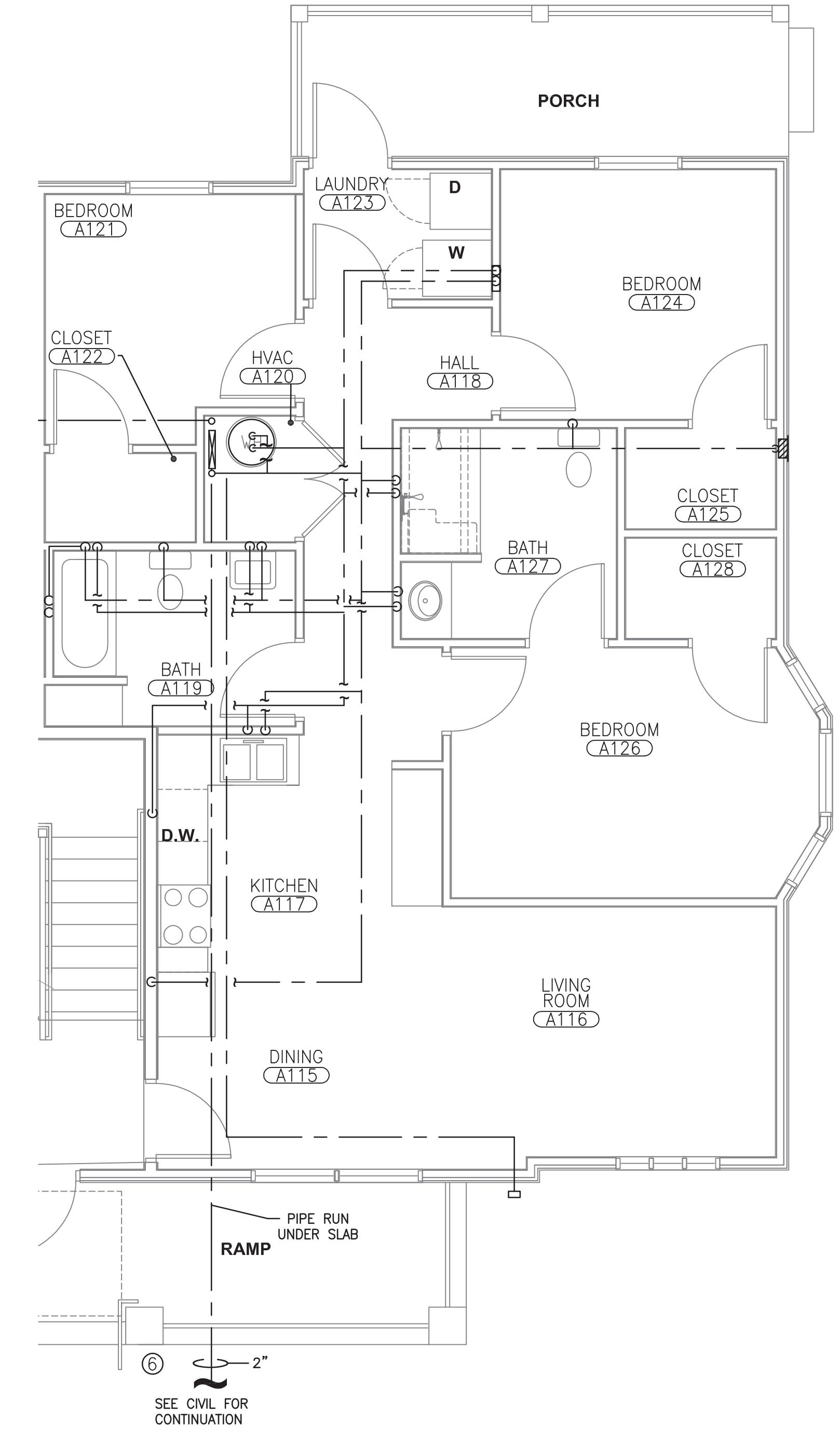
SCALE: 1/4"=1'-0"

WATER NOTES:

- ①. 2" WATER TO COME UP TO CLOSET FROM BELOW SLAB. 2" FIRE WATER TAP IS TO BE TAKEN OFF MAIN LINE. 1" DOMESTIC IS TO BE TAPPED OFF OF MAIN LINE FOR THIS FIRST APARTMENT. 1 1/2" DOMESTIC TO CONTINUE ON UP TO THE CEILING SPACE OF THE FIRST FLOOR. 1 1/2" WATER IS THEN TO BE ROUTED OVER TO FEED THE FIRST AND SECOND FLOOR APARTMENT ON THE LEFT SIDE WHILE 1" WATER GOES UP THROUGH THE FLOOR TO FEED THE APARTMENT ABOVE THIS ONE. (SEE DETAIL ON P001)
- ②. 1" DOMESTIC WATER UP FROM FIRST LEVEL.
- ③. 1" DOMESTIC WATER DOWN FROM CEILING SPACE TO FIRST FLOOR BACK FLOW PREVENTER.
- ④. EACH APARTMENT'S DOMESTIC WATER IS TO BE SEPARATE AND PROTECTED BY IT'S OWN BACKFLOW PREVENTER. THE MAIN WATER LINES LEADING TO THESE DIFFERENT BACKFLOW PREVENTERS ARE TO BE LABELED SO THAT NO ACCIDENTAL TAPS ARE MADE UP STREAM FROM THE BACKFLOW PREVENTERS.
- ⑤. CONTRACTOR IS TO INSTALL SHUT-OFF VALVES FOR THE SHOWER VALVES. ACCESS PANEL WILL BE REQUIRED IN THE WALL. CONTRACTOR IS TO COORDINATE THE LOCATION OF ACCESS PANELS WITH THE ARCHITECTURAL PLAN
- ⑥. CONTRACTOR IS TO COORDINATE WITH CIVIL SITE PLANS TO DETERMINE IF THE WATER IS TO ENTER THE BUILDING IN THE FRONT OR REAR OF BUILDING.

ADDITIONAL NOTES:

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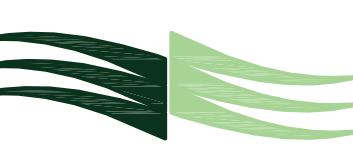


ALTERNATE LOWER LEVEL

SCALE: 1/4"=1'-0"

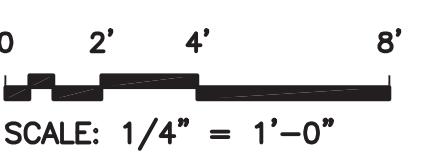
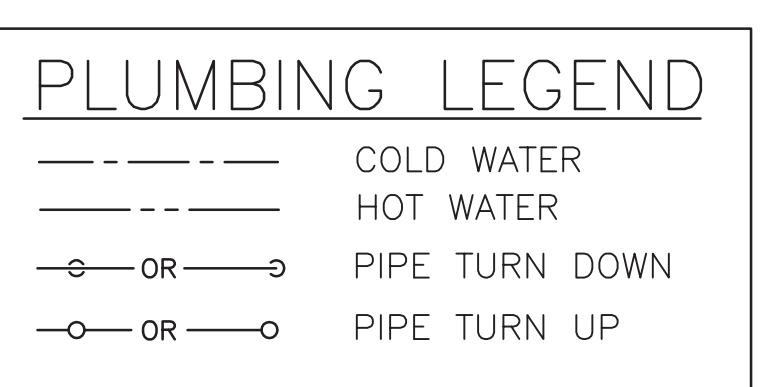
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Date	SEP. 11, 2015
File No.	

Project No.
12655-05

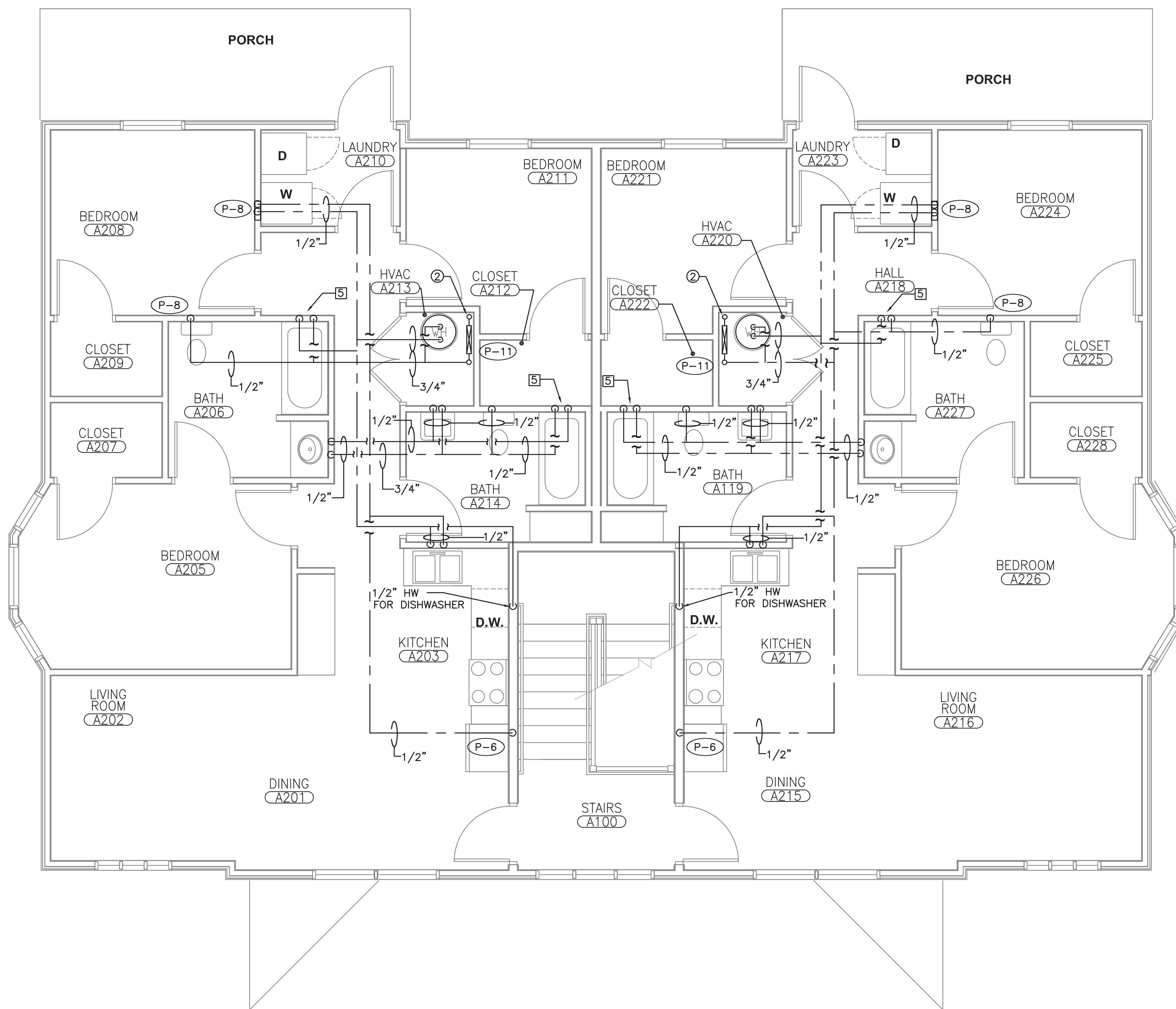
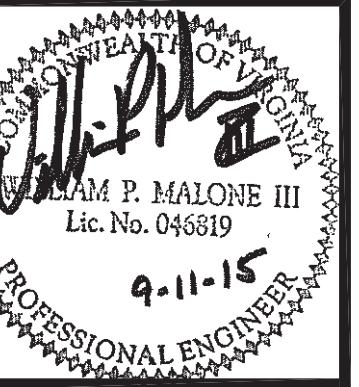


Sheet No.

P104B



SCALE: 1/4" = 1'-0"



PLUMBING LEGEND

- COLD WATER
- HOT WATER
- OR — PIPE TURN DOWN
- OR — PIPE TURN UP
- TP — TRAP PRIMER

WATER NOTES:

1. 1" DOMESTIC WATER UP FROM FIRST LEVEL.
2. CONTRACTOR IS TO INSTALL SHUT-OFF VALVES FOR THE SHOWER VALVES. ACCESS PANEL WILL BE REQUIRED IN THE WALL.

TYPE-B BUILDING – UPPER LEVEL

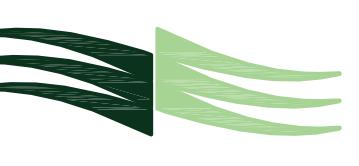
SCALE: 1/4"=1'-0"

**BRISTOL REDEVELOPMENT & HOUSING AUTHORITY
THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA
BRHA - TVO-1460.00.MF.0915
BUILDING B UPPER LEVEL
PLUMBING WATER SUPPLY**

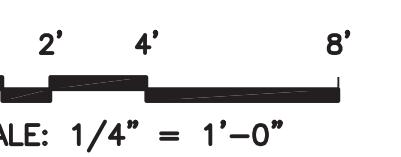
No.	Date	Purpose of Document Issue

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Checked	WPM
Date	SEP. 11, 2015
File No.	

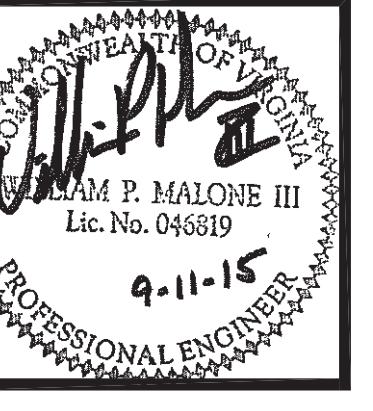
Project No.
12655-05



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P105B



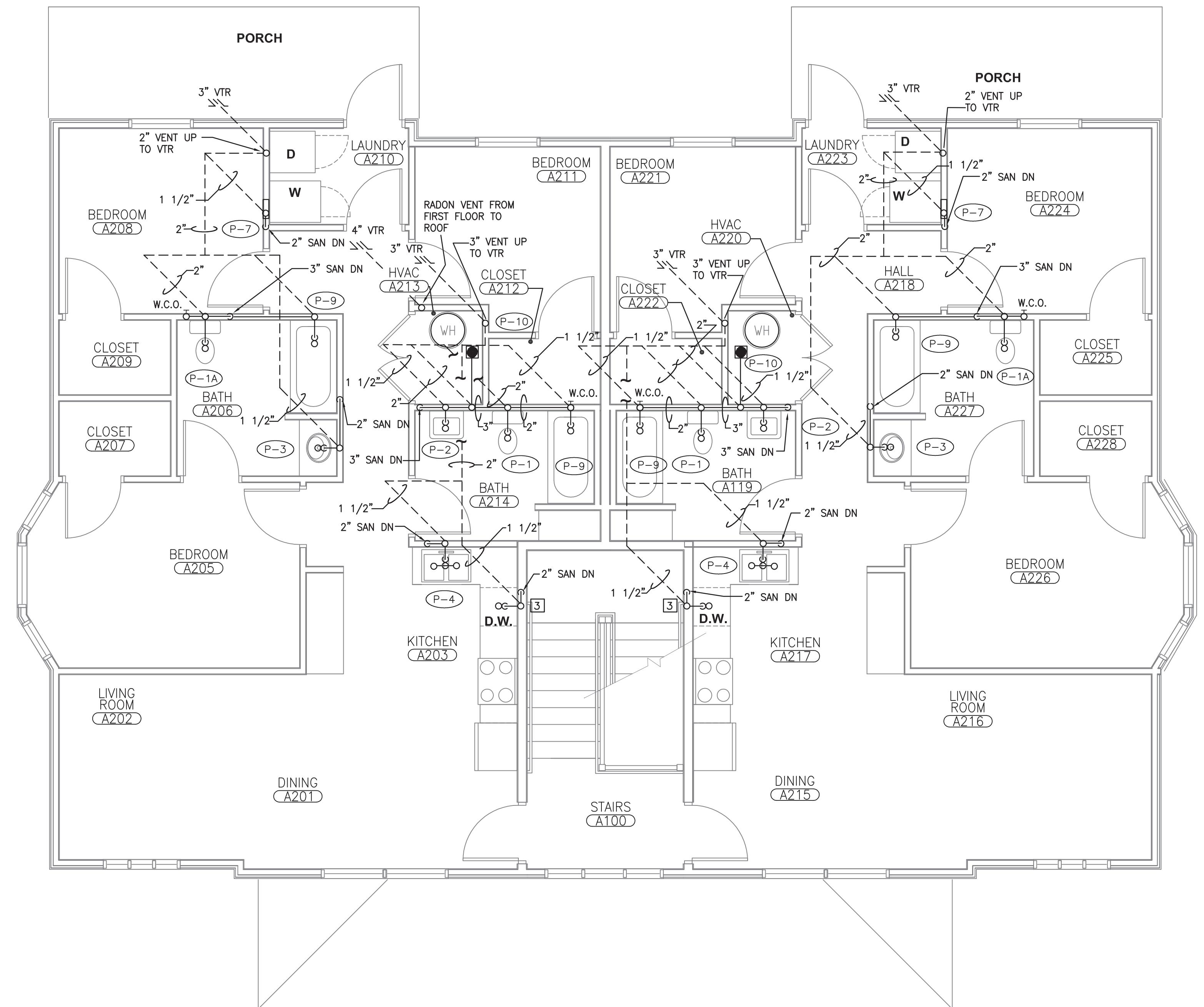
SCALE: 1/4" = 1'-0"



**BRISTOL REDEVELOPMENT & HOUSING AUTHORITY
THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA**

DEVELOPMENT & HISTORY OF THE VILLAGE AT OAKWOOD BRISTOL, VIRGINIA

**BUILDING B UPPER LEVEL
PLUMBING WASTE & VENT**



PLUMBING LEGEND

— — — —	SANITARY
- - - - -	VENT
- - - U.F. - - -	UNDER FLOOR VENT (1 1/2" TYP.)
V.T.R.	VENT THRU ROOF
— o — OR — o	PIPE TURN DOWN
o — OR — o	PIPE TURN UP
— o —	CLEANOUT
C.O.	
— □ —	GRADE CLEANOUT
G.C.O.	
— □ —	FLOOR CLEANOUT
E.C.O.	

WASTE & VENT NOTES:

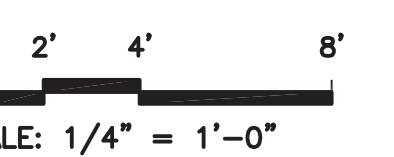
1. CONTRACTOR IS TO COORDINATE WITH CIVIL SITE PLANS TO DETERMINE IF THE WASTE IS TO EXIT IN THE FRONT OR THE REAR OF BUILDINGS.
 2. COORDINATE THE LOCATION OF THE SHOWER TRENCH DRAINS WITH THE ARCHITECTURAL PLAN.
 3. OPEN HUB DRAIN

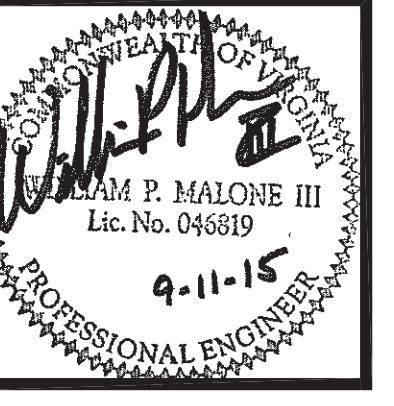
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Date	SEP. 11, 2015
File No.	

Project No.
12655-05



P106B

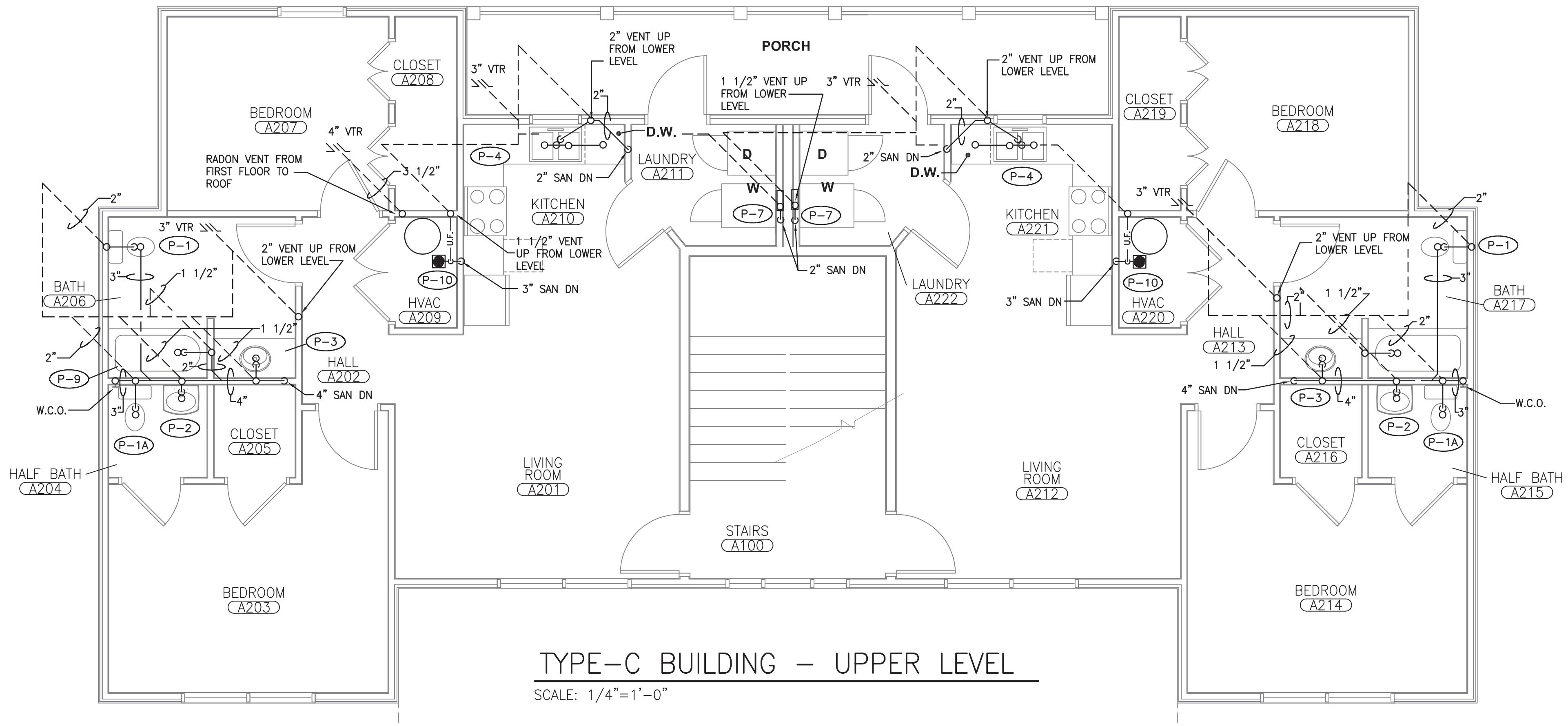




PLUMBING LEGEND

TYPE-C BUILDING – UPPER LEVEL

SCALE: 1/4"=1'-0"



**BRISTOL REDEVELOPMENT & HOUSING AUTHORITY
THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA**

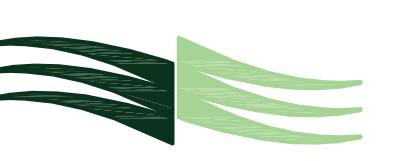
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BUILDING C UPPER LEVEL

**DEVELOPMENT & H
THE VILLAGE AT O
BRISTOL, VIRGIN
BRHA - TWO-1460.0**

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Date	SEP. 11, 2015
File No.	

Project No. 12655-05



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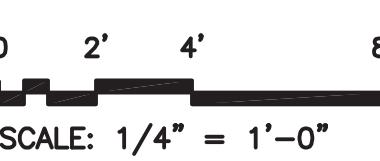
THE INFLUENCE OF CULTURE ON PARENTING

TYPE-C BUILDING LOWER LEVEL- ALTERNATE

SCALE: 1/4" = 1' - 0"

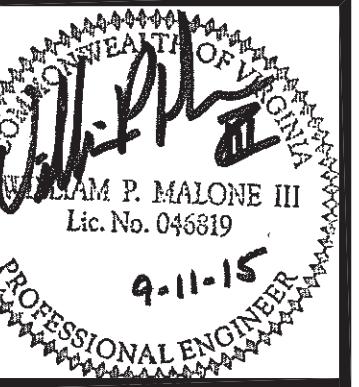
WASTE & VENT NOTES:

1. CONTRACTOR IS TO COORDINATE WITH CIVIL SITE PLANS TO DETERMINE IF THE WASTE IS TO EXIT IN THE FRONT OR THE REAR OF BUILDINGS.
 2. COORDINATE THE LOCATION OF THE SHOWER TRENCH DRAINS WITH THE ARCHITECTURAL PLAN



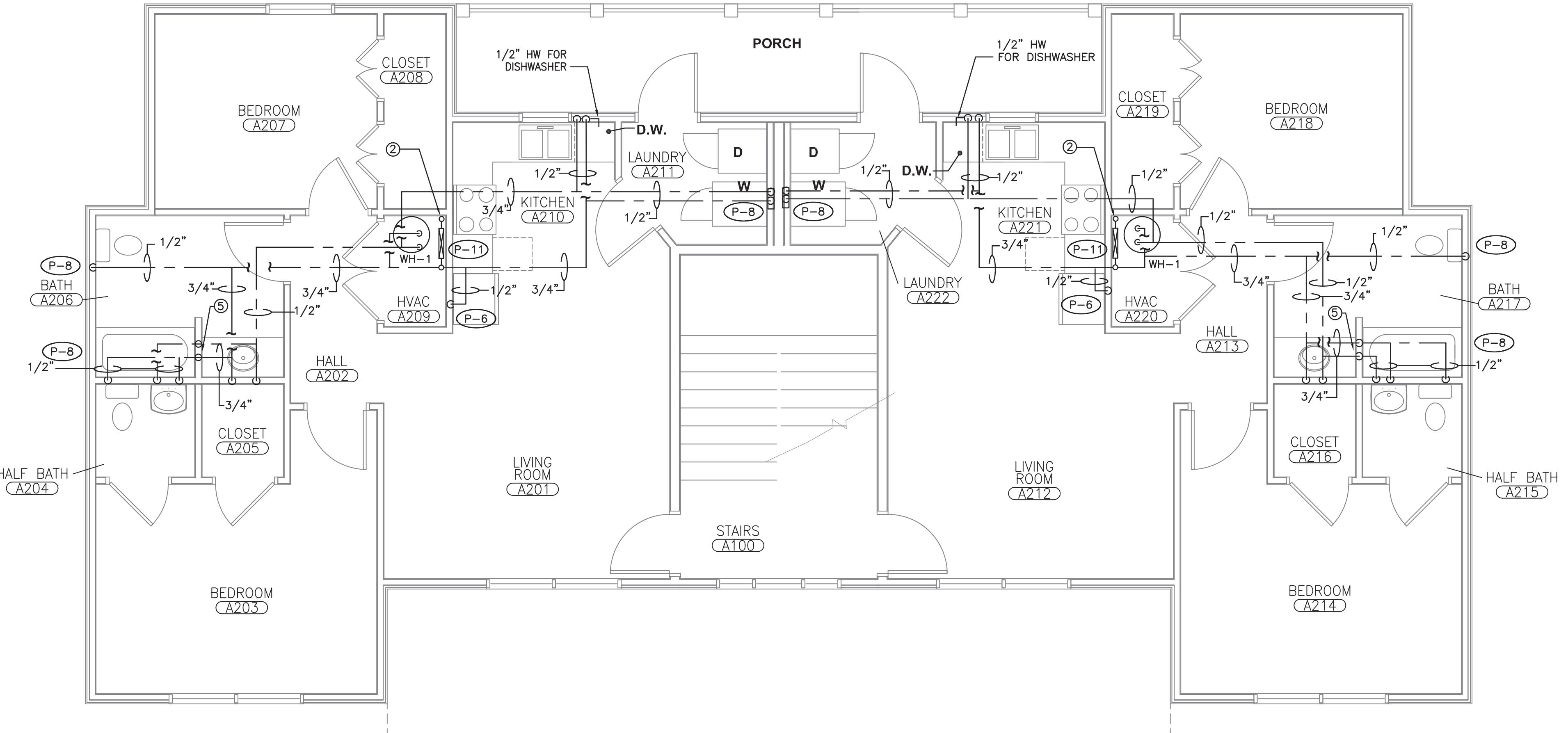
TYPE-C BUILDING LOWER LEVEL

SCALE: 1/4"=1'-0"



**BRISTOL REDEVELOPMENT & HOUSING AUTHORITY
THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA
BRHA - TVO-1460-00.MF.0915
BUILDING C UPPER LEVEL
PLUMBING WATER SUPPLY**

— — —	COLD WATER
— — —	HOT WATER
— OR —	PIPE TURN DOWN
— OR —	PIPE TURN UP



WATER NOTES:

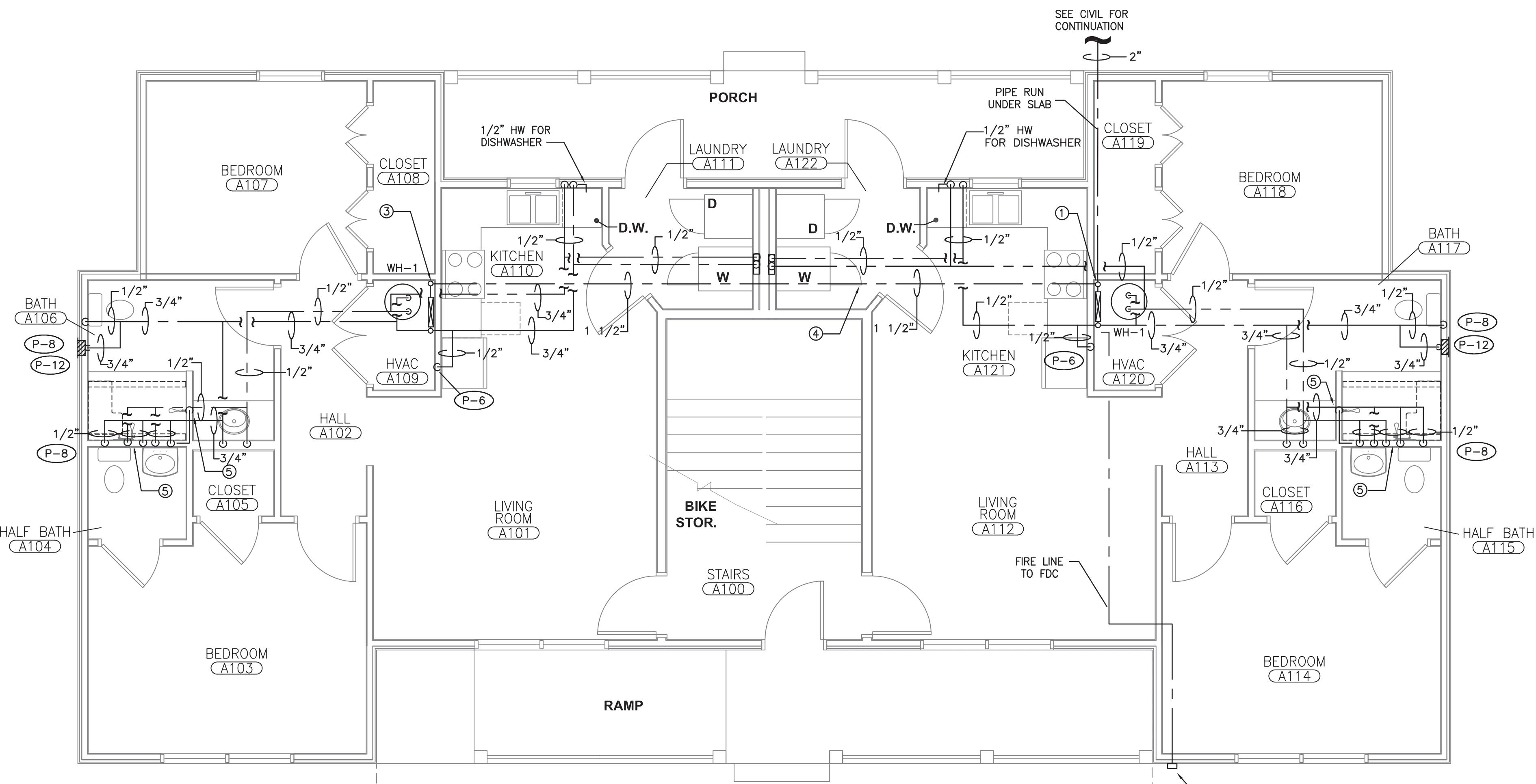
1. 2" WATER TO COME UP TO CLOSET FROM BELOW SLAB. 2" FIRE WATER TAP IS TO BE TAKEN OFF MAIN LINE. 1" DOMESTIC IS TO BE TAPPED OFF OF MAIN LINE FOR THIS FIRST APARTMENT. 1 1/2" DOMESTIC TO CONTINUE UP TO THE CEILING SPACE OF THE FIRST FLOOR. 1 1/2" WATER IS THEN TO BE Routed OVER TO FEED THE FIRST AND SECOND FLOOR APARTMENT ON THE LEFT SIDE WHILE 1" WATER GOES UP THROUGH THE FLOOR TO FEED THE APARTMENT ABOVE THIS ONE. (SEE DETAIL ON P001)
2. 1" DOMESTIC WATER UP FROM FIRST LEVEL.
3. 1" DOMESTIC WATER DOWN FROM CEILING SPACE TO FIRST FLOOR BACK FLOW PREVENTER.
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ADDITIONAL NOTES:

CONTROLS FOR THE ADA SHOWERS ARE TO BE ON THE BACK OF THE SHOWER (BACK FROM THE SHOWER OPENING). THE WATER PIPE FOR THE SHOWER HEAD IS TO BE ROUTED AROUND THE WALL AND BE ON THE WALL ADJOINING THE LAVATORY. COORDINATE WITH THE ARCHITECTURAL PLANS.

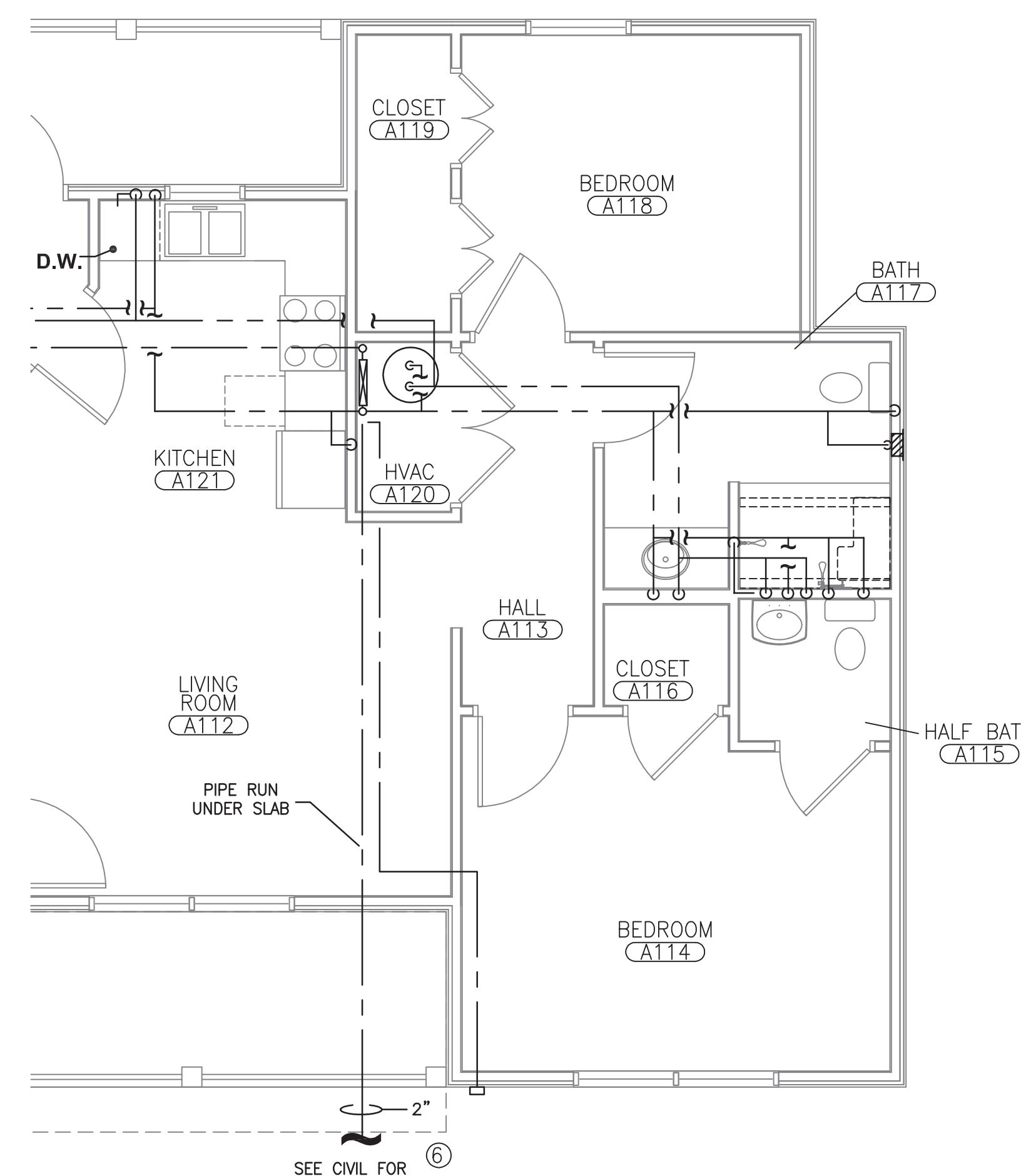
TYPE-C BUILDING – UPPER LEVEL

SCALE: 1/4"=1'-0"



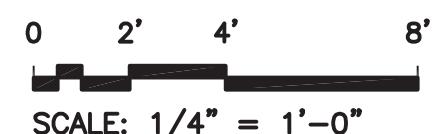
TYPE-C BUILDING LOWER LEVEL

SCALE: 1/4"=1'-0"



ALTERNATE LOWER LEVEL

SCALE: 1/4"=1'-0"



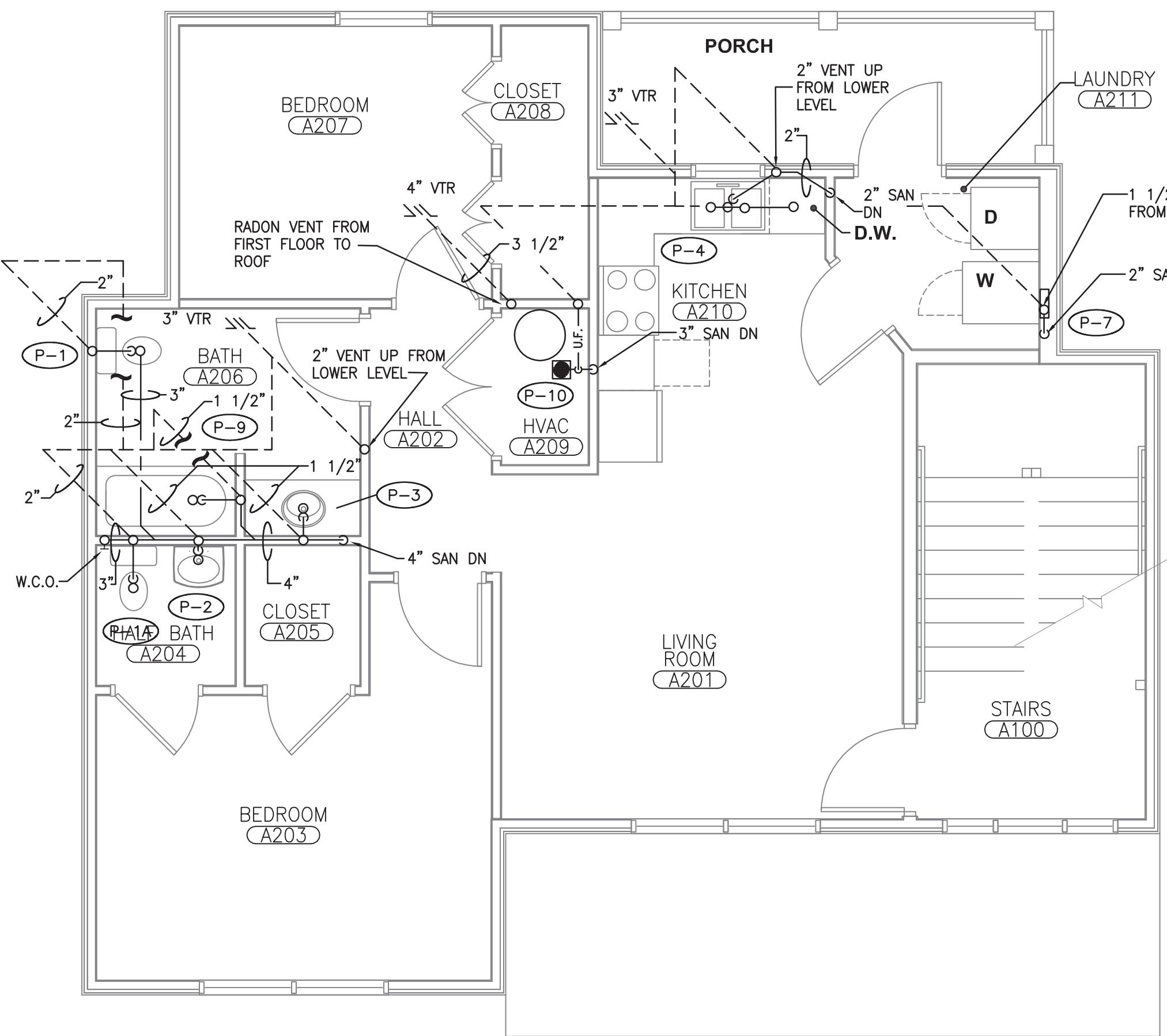
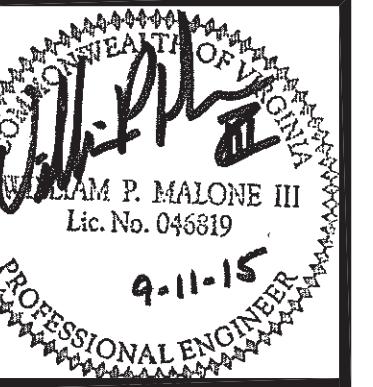
Purpose of Document Issue
Date
No.
Designed JMO
Drawn JMO
Checked WPM
Date SEP. 11, 2015
File No.

Project No. 12655-05



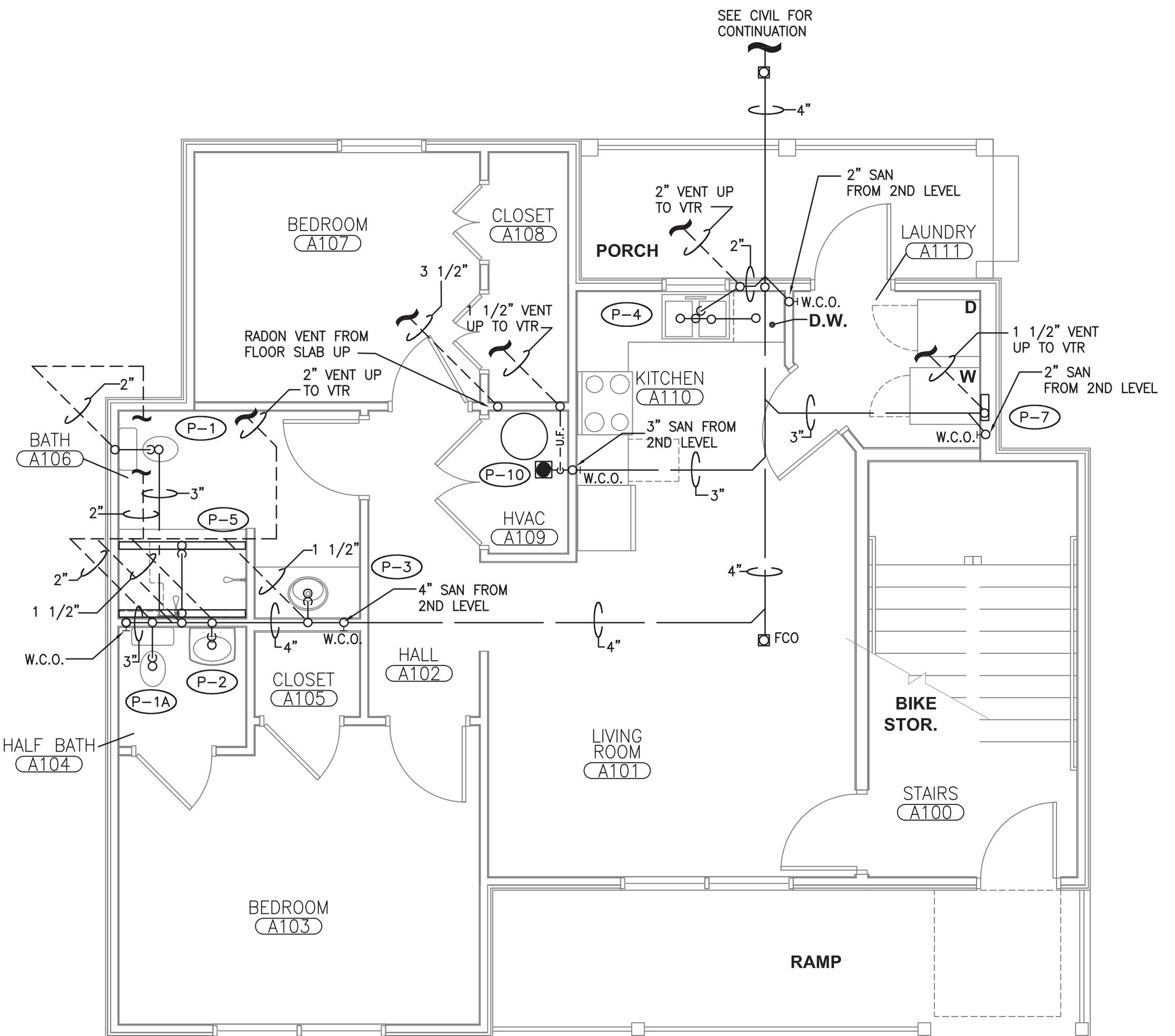
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P108C



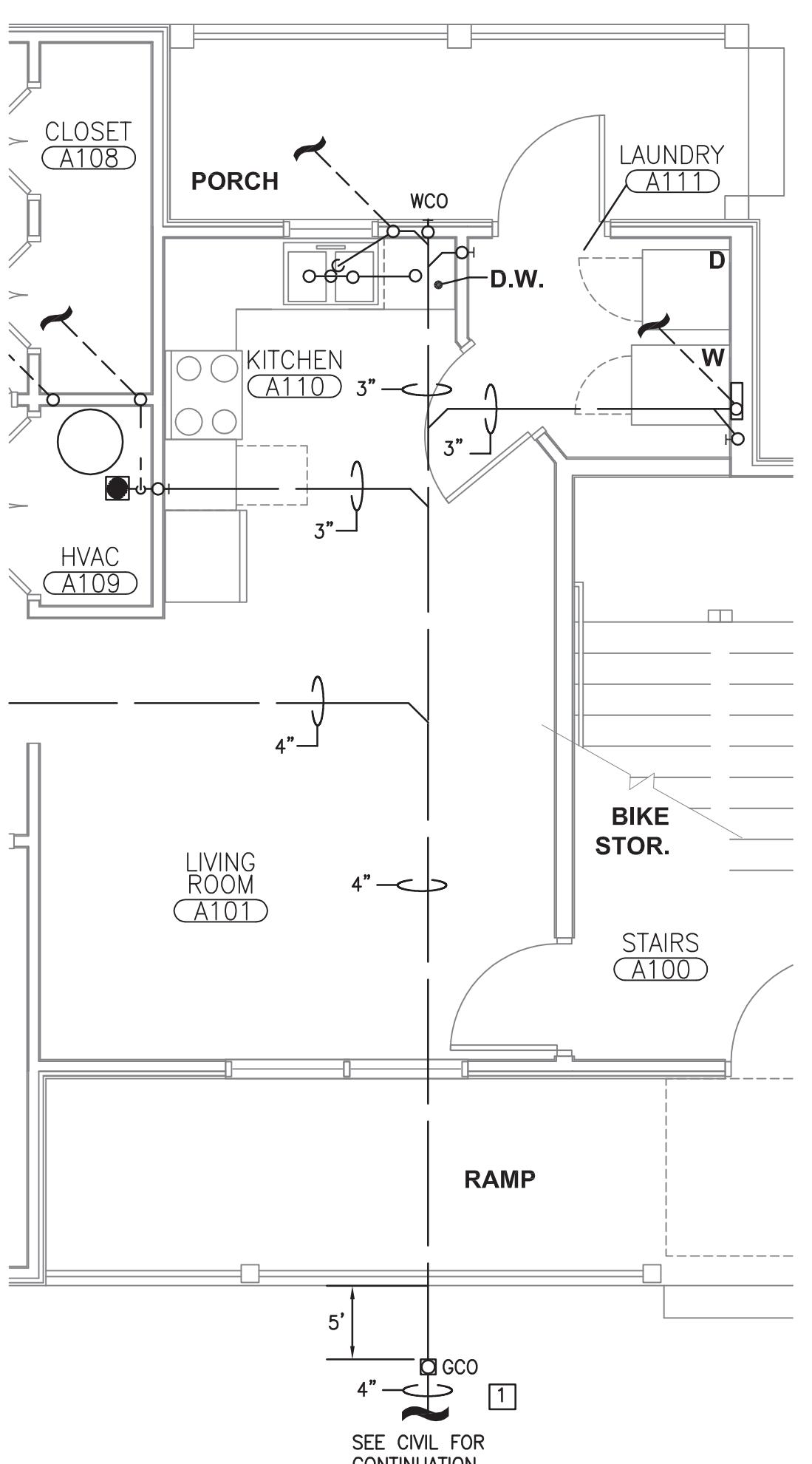
TYPE-D BUILDING – UPPER LEVEL

SCALE: 1/4"=1'-0"



TYPE-D BUILDING – LOWER LEVEL

SCALE: 1/4"=1'-0"



ALTERNATE LOWER LEVEL

SCALE: 1/4"=1'-0"

WASTE & VENT NOTES:

- [1] CONTRACTOR IS TO COORDINATE WITH CIVIL SITE PLANS TO DETERMINE IF THE WASTE IS TO EXIT IN THE FRONT OR THE REAR OF BUILDINGS

PLUMBING LEGEND	
— — — — —	SANITARY VENT
- - - - -	VENT
-- U.F. -- -	UNDER FLOOR VENT (1 1/2" TYP.)
— V.T.R. —	VENT THRU ROOF
— OR — —	PIPE TURN DOWN
— OR — —	PIPE TURN UP
— C.O. — —	CLEANOUT
— G.C.O. — —	GRADE CLEANOUT
— F.C.O. — —	FLOOR CLEANOUT

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

**BRISTOL REDEVELOPMENT & HOUSING AUTHORITY
THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA
BRHA - TVO-1460-00.MF.0915**

**BUILDING D
PLUMBING WASTE & VENT**

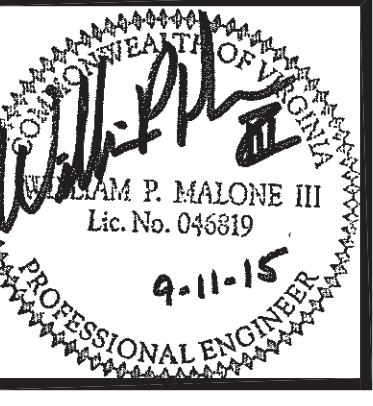
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Drawn	JMO
Checked	WPM
Date	SEP. 11, 2015
File No.	

Project No.
12655-05



Sheet No.
P109D



This architectural floor plan diagram illustrates the layout and piping details for a residential structure. The rooms include:

- BEDROOM A207
- CLOSET A208
- BATH A206
- HALL A202
- HALF BATH A204
- CLOSET A205
- BEDROOM A203
- LIVING ROOM A201
- KITCHEN A210
- PORCH
- LAUNDRY A211
- STAIRS A100

The piping system is detailed with various dimensions and labels:

- 1/2" horizontal pipe runs along the exterior wall of the left side.
- 3/4" vertical pipe connects the Bath and Half Bath fixtures.
- 3/4" horizontal pipe connects the Bath fixture to the HVAC unit.
- 1/2" horizontal pipe connects the HVAC unit to the Kitchen area.
- 1/2" horizontal pipe connects the Kitchen area to the Laundry area.
- 1/2" horizontal pipe labeled "D.W." (Dishwasher) connects the Kitchen area to the Porch.
- 1/2" horizontal pipe labeled "W" connects the Laundry area to the Porch.
- 1/2" horizontal pipe labeled "P-8" connects the Laundry area to the Stairs.
- 1/2" horizontal pipe labeled "P-6" connects the HVAC unit to the Stairs.
- 1/2" horizontal pipe labeled "P-11" connects the Kitchen area to the Stairs.
- 3/4" vertical pipe labeled "③" connects the CLOSET A205 to the CLOSET A208.
- 3/4" horizontal pipe labeled "②" connects the CLOSET A208 to the WH-1 fixture.
- 1/2" horizontal pipe labeled "①" connects the WH-1 fixture to the HVAC unit.

Callouts provide additional information:

- 1/2" HW FOR DISHWASHER
- D.W.
- W
- P-8
- P-6
- P-11
- ②
- ③

TYPE-D BUILDING – UPPER LEVEL

SCALE: 1/4"=1'-0"

TYPE-D BUILDING – LOWER LEVEL

SCALE: 1/4"=1'-0"

This architectural floor plan illustrates a section of a house, likely a two-story structure. The visible rooms include:

- BEDROOM A107
- CLOSET A108
- PORCH
- BATH A106
- CLOSET A105
- HALL A102
- HALF BATH A104
- BEDROOM A103
- LIVING ROOM A101

The plan shows various fixtures such as sinks, a toilet, and a bathtub. HVAC equipment labeled "HVAC A109" is shown in the central corridor. A legend at the bottom right indicates a scale of 4 units and a 2-inch radius for arcs.

ALTERNATE LOWER LEVEL

SCALE: $1/4'' = 1'-0''$

WATER NOTES:

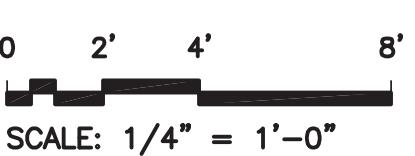
1. 2" WATER TO COME UP TO CLOSET FROM BELOW SLAB. 2"
FIRE WATER TAP IS TO BE TAKEN OFF MAIN LINE. 1" DOMESTIC
IS TO BE TAPPED OFF OF MAIN LINE. 1" DOMESTIC TO
CONTINUE ON THE SECOND LEVEL. (SEE DETAIL ON P001)
 2. 1" DOMESTIC WATER UP FROM FIRST LEVEL.
 3. CONTRACTOR IS TO INSTALL SHUT-OFF VALVES FOR THE
SHOWER VALVES. ACCESS PANEL WILL BE REQUIRED IN THE
WALL. CONTRACTOR IS TO COORDINATE THE LOCATION OF
ACCESS PANELS WITH THE ARCHITECTURAL PLAN
 4. CONTRACTOR IS TO COORDINATE WITH CIVIL SITE PLANS TO
DETERMINE IF THE WATER IS TO ENTER THE BUILDING IN THE
FRONT OR REAR OF BUILDING.

ADDITIONAL NOTES:

CONTROLS FOR THE ADA SHOWERS ARE TO BE ON THE BACK OF THE SHOWER (BACK FROM THE SHOWER OPENING). THE WATER PIPE FOR THE SHOWER HEAD IS TO BE ROUTED AROUND THE WALL AND BE ON THE WALL ADJOINING THE LAVATORY. COORDINATE WITH THE ARCHITECTURAL PLANS.

PLUMBING LEGEND

— - — - —	COLD WATER
— — - — —	HOT WATER
—○— OR —○—	PIPE TURN DOWN
—○— OR —○—	PIPE TURN UP



BRISTOL REDEVELOPMENT & HOUSING AUTHORITY
THE VILLAGE AT OAKVIEW
BRISTOL, VIRGINIA
BRHA - TVO-1460.00.MF.0915

BUILDING D

PLUMBING WATER SUPPLY

Designed	JMO
Drawn	JMO
Checked	WPM
Date	SEP. 11, 2015
File No.	

Project No.
12655-05



PII0D