

PLUMBING GENERAL NOTES

- A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR. B THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. C WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES. D ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW. E COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS. F PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER. G OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, WEST VIRGINIA, ETC.) H CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING. I IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS. J WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE. K ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS. L ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES. M ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED. N ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE WEST VIRGINIA DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS. O LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS. P ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY. Q THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK (GAS, SEWER, WATER, ETC.). R INSTALL ALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT. S SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION. T THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APURTANCES, ETC., THAT CONFLICT WITH NEW WORK. U WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS. V DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS. W ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER. X DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER. Y VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILING. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING. Z ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE. AA WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH COMPACTED FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE. AB WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

PLUMBING DEMOLITION NOTES

- A THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELD VERIFY EXACT REQUIREMENTS. B DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES. C ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING. D ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE. E HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN. F COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER. G ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

PLUMBING HAZARDOUS MATERIALS NOTES

- A THE CONTRACTOR IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO, OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS. B OMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY OMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, OMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL. C IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY. D THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS OR EMPLOYEES, AGENTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES. E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

ABBREVIATIONS

Table with 2 columns: Abbreviation, Full Name. Includes AC (ALTERNATING CURRENT), ADJ (ADJUSTABLE), AFF (ABOVE FINISHED FLOOR), AFR (ABOVE FINISHED ROOF), AFUE (ANNUAL FUEL UTILIZATION EFFICIENCY), AHJ (AUTHORITY HAVING JURISDICTION), AMP (AMPERE (AMP, AMPS)), ANSI (AMERICAN NATIONAL STANDARD INSTITUTE), APD (AIR PRESSURE DROP), ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS), AVG (AVERAGE), BAS (BUILDING AUTOMATION SYSTEM), BHP (BREAK HORSEPOWER), BTU (BRITISH THERMAL UNIT), CAP (CAPACITY), CD (CONDENSATE DRAIN), CFM (CUBIC FEET PER MINUTE), C.I. (CAST IRON), CLG (CEILING), CLR (CLEAR), CO (CARBON MONOXIDE), COND (CONDENSE (-ED, -ING, -ATION, -ATE)), CONT (CONTINU (-ED, -OUS)), CU FT (CUBIC FEET), CU IN (CUBIC INCHES), CV (VALVE FLOW COEFFICIENT), dB (DECIBEL), DB (DRY BULB), DC (DIRECT CURRENT), DD (DUCT SMOKE DETECTOR), DDC (DIRECT DIGITAL CONTROLS), DEG (DEGREE (-S)), DIA (DIAMETER (-S)), DN (DOWN), DWG (DRAWING), EC (ELECTRICAL CONTRACTOR), ELEV (ELEVA (-TION, -TOR)), ENGR (ENGINEER), EQ (EQUAL), ESP (EXTERNAL STATIC PRESSURE), ETR (EXISTING TO REMAIN), EVAP (EVAPORAT (-E, -ING, -ED, -OR, -ION)), EWT (ENTERING WATER TEMPERATURE), EXP (EXPANSION), EXT (EXTERIOR), FA (FREE AREA)

ABBREVIATIONS (CONTINUED)

Table with 2 columns: Abbreviation, Full Name. Includes FL (FLOOR), FLA (FULL LOAD AMPS), FOB (FLAT ON BOTTOM), FOT (FLAT ON TOP), FPC (FIRE PROTECTION CONTRACTOR), FPM (FEET PER MINUTE), FPS (FEET PER SECOND), FT (FEET OR FOOT), FUT (FUTURE), FV (FACE VELOCITY), GA (GAGE/GAUGE), GAL (GALLON (-S)), GC (GENERAL CONTRACTOR), GPD (GALLONS PER DAY), GPH (GALLONS PER HOUR), GPM (GALLONS PER MINUTE), GR (GRAINS), H (HUMIDITY), HD (HEAD), HG (MERCURY), HORIZ (HORIZONTAL), HP (H (-ORSEPOWER, -EAT PUMP)), HR (HOUR (-S)), HVAC (HEATING, VENTILATING, & AIR-CONDITIONING), Hz (HERTZ), ID (I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)), IN (INCH (-ES)), INSUL (INSULAT (-ED, -ION)), INT (INTER (-IOR, -ERVAL)), IPS (IRON PIPE SIZE), kW (KILOWATT), kWh (KILOWATT HOUR), LBS (POUNDS), LF (LINEAR FEET/FOOT), LRA (LOCKED ROTOR AMPS), LWT (LEAVING WATER TEMPERATURE), MAX (MAXIMUM), MBH (BTU PER HOUR [THOUSANDS]), MCA (MINIMUM CIRCUIT AMPS), MFG (MANUFACTURER), MIN (MIN (-IMUM, -UTE)), MISC (MISCELLANEOUS), MOC (MAXIMUM OVERCURRENT PROTECTION [AMPS]), MTG (MOUNTING), N/A (NOT APPLICABLE), NC (NOISE CRITERIA OR NORMALLY CLOSED), NEBB (NATIONAL ENVIRONMENTAL BALANCING BUREAU), NIC (NOT IN CONTRACT)

ABBREVIATIONS (CONTINUED)

Table with 2 columns: Abbreviation, Full Name. Includes NO (NORMALLY OPEN OR NUMBER), NTS (NOT TO SCALE), OC (ON CENTER), OD (OUTSIDE DI (-AMETER, -MENSION)), CFCI (CONTRACTOR FURNISHED, CONTRACTOR INSTALLED), OFCI (OWNER FURNISHED, CONTRACTOR INSTALLED), OFOI (OWNER FURNISHED, OWNER INSTALLED), OR (OWNER RECEPTACLE), OZ (OUNCE (-S)), PC (PLUMBING CONTRACTOR), PD (PRESSURE DROP), PH (PHASE [ELECTRICAL]), PLBG (PLUMBING), PPM (PARTS PER MILLION), PRS (PRESSURE REDUCING STATION), PRV (PRESSURE REDUCING VALVE (STEAM, WATER, GAS)), PSF (POUNDS PER SQUARE FOOT), PSI (POUNDS PER SQUARE INCH), PSIG (PSI GAUGE), RLA (RUNNING LOAD AMPS), RPM (REVOLUTIONS PER MINUTE), SQ (SQUARE), SQ FT (SQUARE FEET OR FOOT), SQ IN (SQUARE INCH OR INCHES), TAB (TESTING AND BALANCING), TBD (TO BE DETERMINED), TE (TOP ELEVATION), TEMP (TEMPERATURE), TPA (TRAP PRIMER ADAPTER), TSP (TOTAL STATIC PRESSURE), TYP (TYPICAL), UNO (UNLESS NOTED OTHERWISE), V (VOLT (-AGE, -S)), VAR (VARI (-ABLE, -IES)), VAV (VARIABLE AIR VOLUME), VEL (VELOCITY), VFD (VARIABLE FREQUENCY DRIVE), W (WATT (-AGE, -S)), WB (WET BULB), WBT (WET BULB TEMPERATURE), WPD (WATER PRESSURE DROP), WT (WEIGHT), W/ (WITH), W/O (WITHOUT), % (PERCENT), ΔP (DIFFERENTIAL PRESSURE), ΔT (TEMPERATURE DIFFERENCE), Ǝ (CENTERLINE)

GENERAL SYMBOLS

Table with 2 columns: Symbol, Description. Includes TAGGED NOTE DESIGNATOR, REVISION TRIANGLE, ROOM TAG, EQUIPMENT TAG, DOMESTIC WATER RISER TAG, SANITARY, WASTE, & VENT RISER TAG, FIRE SUPPRESSION RISER TAG, POINT OF CONNECTION / CONNECT TO EXISTING, POINT OF DEMOLITION, PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM, EXISTING PIPING - (XXX) DENOTES SYSTEM, ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM

VALVE SYMBOL LEGEND

Table with 2 columns: Symbol, Description. Includes TWO-WAY CONTROL VALVE, THREE-WAY CONTROL VALVE, AUTOMATIC AIR VENT (AAV), MANUAL AIR VENT (MAV), MANUAL BALANCING VALVE (BV), BALL VALVE, BUTTERFLY VALVE, TRIPLE DUTY VALVE (TDV), STRAINER, MANUAL ISOLATION VALVE, GLOBE VALVE, OS&Y (GATE) VALVE, PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.), AUTO-FLOW CONTROL VALVE, CHECK VALVE, DOUBLE CHECK VALVE ASSEMBLY

PLUMBING PIPING LEGEND

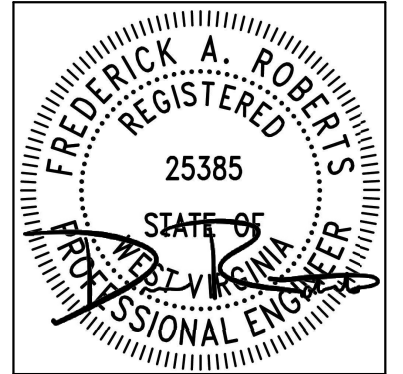
Table with 2 columns: Symbol, Description. Includes PIPE ELBOW TURNING UP, PIPE ELBOW TURNING DOWN, PIPE TEE: CONNECTION ON TOP, PIPE TEE: CONNECTION ON BOTTOM, PIPE CAP, ACID VENT, ACID WASTE, COMPRESSED AIR, COMBUSTION AIR INTAKE/EXHAUST, CHILLED BEAM SUPPLY/RETURN, CONDENSATE DRAIN, CARBON DIOXIDE, CLEAN STEAM PIPING, DOMESTIC COLD WATER (DCW), DOMESTIC HOT WATER (DHW), RECIRCULATED DOMESTIC HOT WATER (DHR), HIGH PRESSURE STEAM CONDENSATE, HIGH PRESSURE STEAM: (#) DENOTES PRESSURE, HEAT PUMP WATER SUPPLY/RETURN, HEAT RECOVERY SUPPLY/RETURN PIPING, HEATING WATER SUPPLY/RETURN, LOW PRESSURE STEAM CONDENSATE, LOW PRESSURE STEAM: (#) DENOTES PRESSURE, MEDIUM PRESSURE STEAM RETURN, MEDIUM PRESSURE STEAM: (#) DENOTES PRESSURE, STEAM CONDENSATE PUMPED DISCHARGE, STEAM VENT PIPING, FLEXIBLE PIPE CONNECTION, FLOW METER (VENTURI), PIPING UNION, FLOW SWITCH, PRESSURE SWITCH, TAMPER SWITCH, THERMOMETER, PETE'S PLUG, TEMPERATURE/PRESSURE PORT

PLUMBING SYMBOL LEGEND

Table with 2 columns: Symbol, Description. Includes FLEXIBLE PIPE CONNECTION, FLOW METER (VENTURI), PIPING UNION, FLOW SWITCH, PRESSURE SWITCH, TAMPER SWITCH, THERMOMETER, PETE'S PLUG, TEMPERATURE/PRESSURE PORT

Table with 3 columns: APPLICABLE BUILDING CODES, DOCUMENT, YEAR. Lists codes like ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES, FIRE SPRINKLER CODE, INTERNATIONAL BUILDING CODE (IBC), etc.

Table with 2 columns: SHEET #, SHEET NAME. Lists sheets like PD1.1 PLUMBING FIRST FLOOR DEMOLITION, P1.1 PLUMBING GRAVITY SYSTEMS NEW WORK, etc.



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Table with 2 columns: REVISIONS, DESCRIPTION OF CHANGES. Includes columns for REV, DATE, NAME, DESCRIPTION OF CHANGES.

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Table with 2 columns: PLUMBING LEGEND, PROJECT. Includes SHEET #, SHEET NAME, PLOT SCALE, FILE NAME, DATE.

PROJECT 3702 1/8" = 1'-0" P0.1 04/15/2024

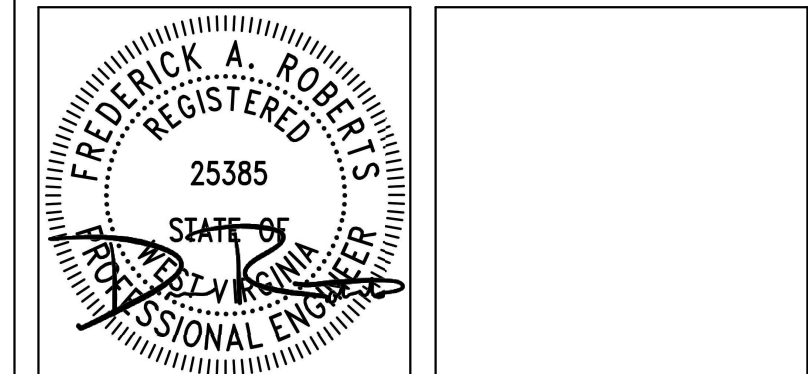


**PLUMBING - DEMOLITION GENERAL NOTES**

- A. REFER TO SHEET **P0.1** FOR PLUMBING SYMBOL LEGEND.
- B. REFER TO **P3.1** SERIES SHEETS FOR PLUMBING SCHEDULES & DETAILS.
- C. REFER TO **P4.1** SERIES SHEETS FOR PLUMBING RISER DIAGRAMS.
- D. EXISTING CONDITIONS SHOWN ON THIS PLAN ARE BASED ON LIMITED FIELD SURVEY AND ORIGINAL DESIGN DRAWINGS. ANY VARIATIONS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT IS ENCOUNTERED IN THE FIELD BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER/OWNER IMMEDIATELY.
- E. ALL EXISTING SANITARY AND DOMESTIC PIPING SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
- F. ALL EXISTING FIXTURES SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED ON THESE DRAWINGS.

**TAGGED NOTES**

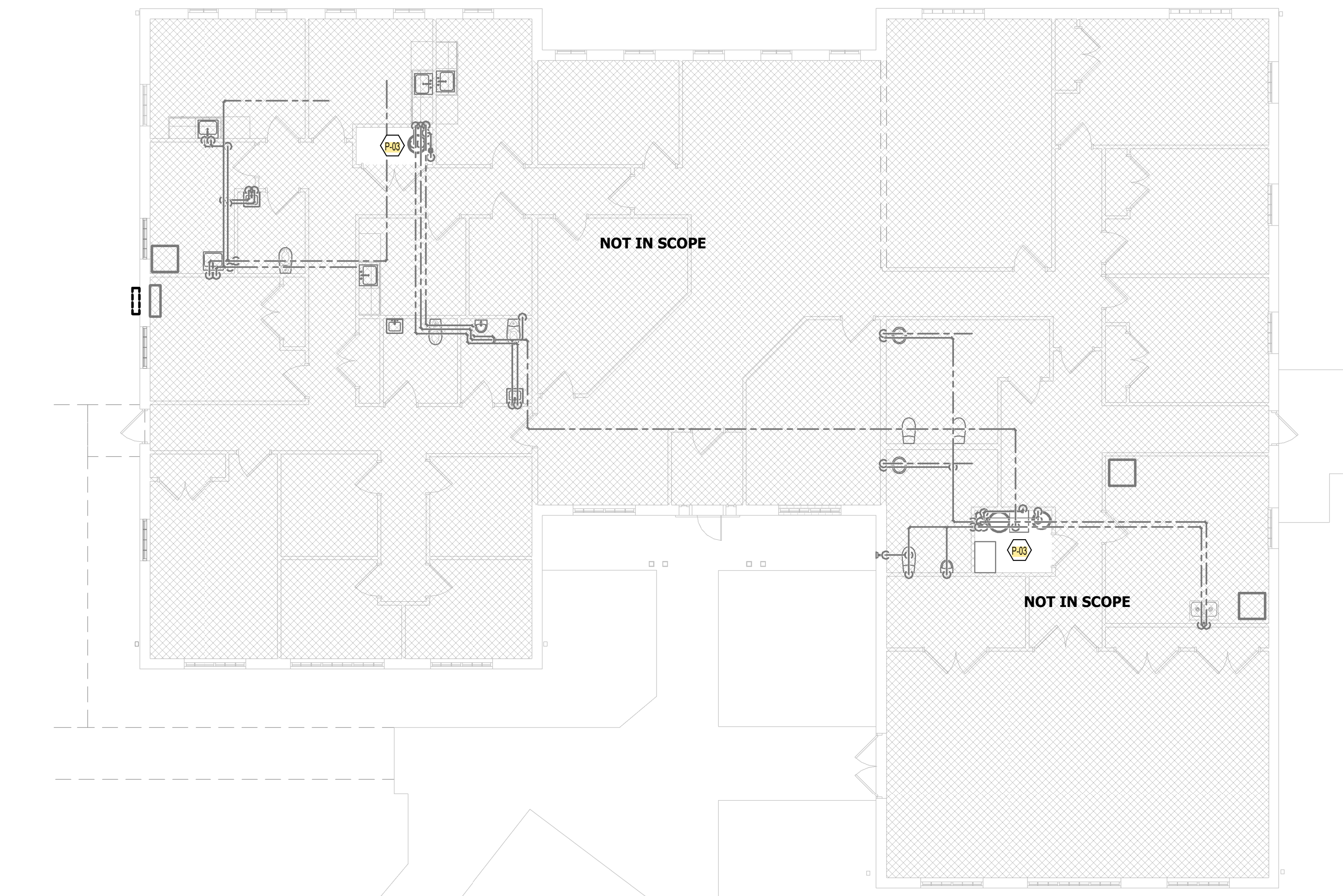
- P-01 CONTRACTOR TO CONFIRM THE EXACT LOCATION AND INVERT OF THE EXISTING SANITARY LEAVING THE BUILDING. ROUTING TO THE SITE CONNECTION WILL NEED TO BE VERIFIED. EXISTING SITE SANITARY WILL NEED TO BE REROUTED TO AVOID ANY STRUCTURAL CONFLICTS OR THE ADDITION BUILDING'S STRUCTURE WILL NEED TO BE ADAPTED TO THE EXISTING ROUTING.
- P-02 EXISTING DOWNSPOUT TO BE DEMOLISHED. REFER TO NEW WORK PLANS FOR NEW LOCATION.
- P-03 **CONTRACTOR SHALL ADD A MASTER MIXING VALVE AND REWORK THE DOMESTIC WATER TO PIPING TO ACCOMMODATE THE VALVE. WATTS LFSH432 OR SIMILAR.**



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**REVISIONS**

NO.	DATE	BY	DESCRIPTION OF CHANGES

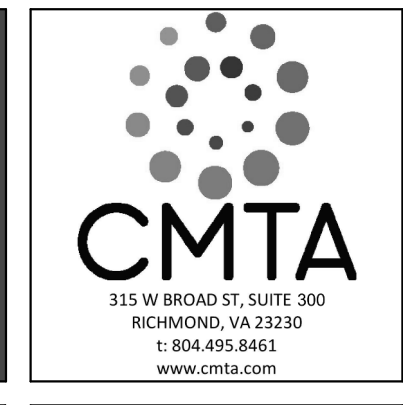
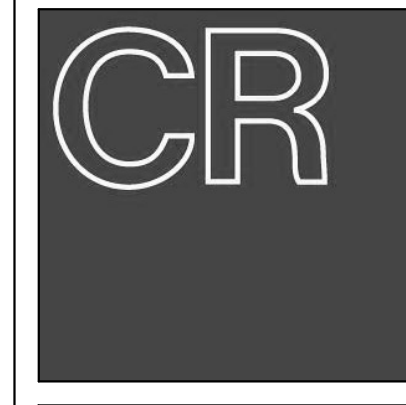


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PLUMBING FIRST FLOOR  
 DEMOLITION

PLOT SCALE:  
 1/8" = 1'-0"

FILENAME:  
 DATE:  
 04/15/2024

**PROJECT**  
 3702  
**PD1.1**

**1** PLUMBING GRAVITY SYSTEMS UNDERSLAB & FIRST FLOOR DEMOLITION

**2** PLUMBING PRESSURIZED SYSTEMS FIRST FLOOR DEMOLITION

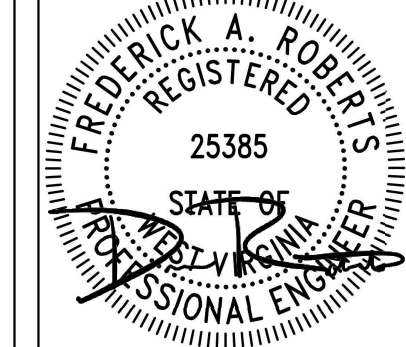


**PLUMBING - SANITARY/STORM GENERAL NOTES**

- A. REFER TO SHEET P0.1 FOR PLUMBING SYMBOLS & LEGENDS.
- B. REFER TO P3.1 FOR PLUMBING SCHEDULE & DETAILS.
- C. REFER TO P4.0 SHEET SERIES FOR PLUMBING RISERS.
- D. STORM WATER FLOWS BASED ON A STORM OF 1-HOUR DURATION AND A 100-YEAR RETURN PERIOD
  - MARTINSBURG, WEST VIRGINIA ≈ 2.75"/HR
  - GPM/SF = 0.0286
- E. ALL GRAVITY PIPING SHALL BE INSTALLED WITH THE MINIMUM SLOPE REQUIREMENTS OUTLINED IN THE WEST VIRGINIA PLUMBING CODE.

**TAGGED NOTES**

- P-01 CONTRACTOR TO CONFIRM THE EXACT LOCATION AND INVERT OF THE EXISTING SANITARY LEAVING THE BUILDING. ROUTING TO THE SITE CONNECTION WILL NEED TO BE VERIFIED. EXISTING SITE SANITARY WILL NEED TO BE REROUTED TO AVOID ANY STRUCTURAL CONFLICTS OR THE ADDITION BUILDING'S STRUCTURE WILL NEED TO BE ADAPTED TO THE EXISTING ROUTING.
- P-07 EXISTING BUILDING NEW SANITARY ROUTING IS SHOWN AS REPRESENTATIONAL PURPOSES ONLY. CONTRACTOR SHALL CONFIRM THE BEST ROUTING TO TIE INTO THE SITE SANITARY.
- P-09 THE CONTRACTOR SHALL TIE THE ADDITIONS BELOW GRADE SANITARY PIPING INTO THE REQUITED EXISTING BUILDINGS BELOW GRADE SANITARY PIPING. IT IS ASSUMED THAT THE EXISTING BUILDINGS BELOW GRADE PIPING RUNS PLAN WEST BELOW THE PROPOSED ADDITIONS LOCATION.
- P-12 TIE THE NEW RAIN LEADERS INTO BELOW GRADE PERIMETER DRAINAGE.



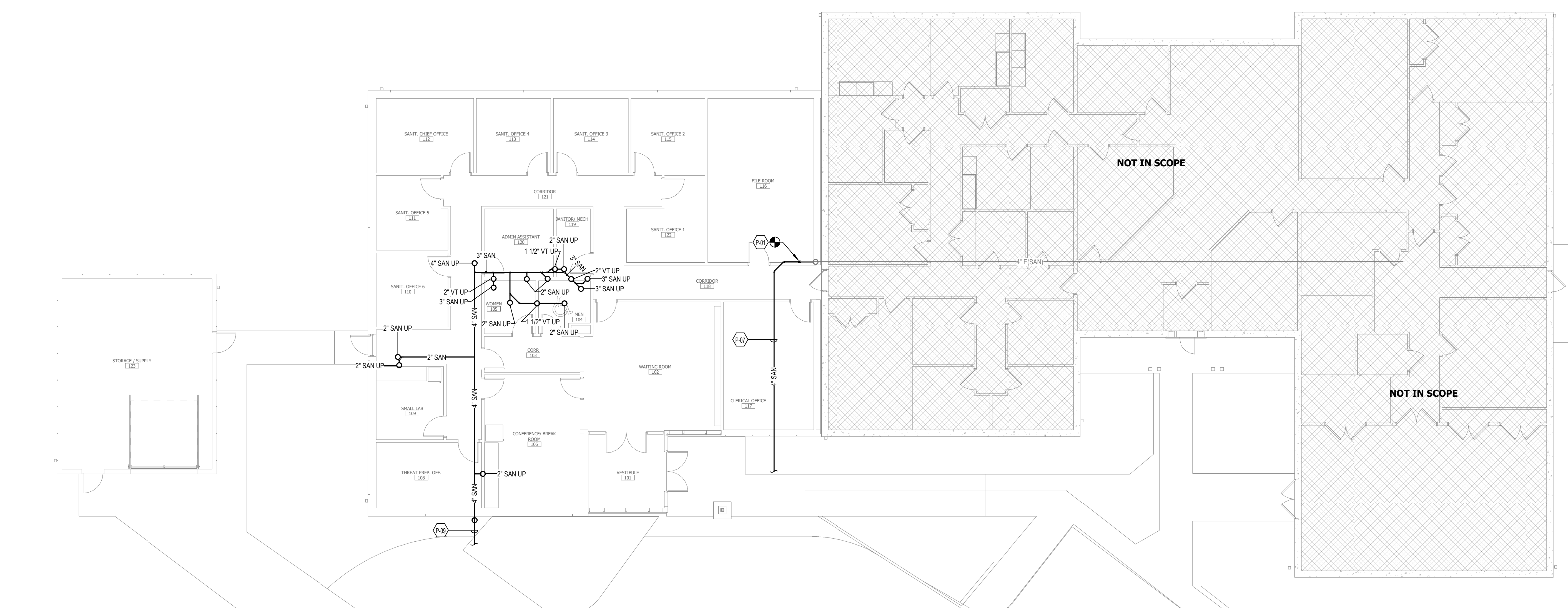
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**REVISIONS**

NO.	DATE	DESCRIPTION OF CHANGES



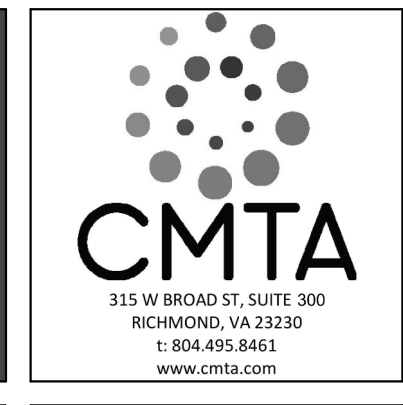
**1 PLUMBING GRAVITY SYSTEMS FIRST FLOOR NEW WORK**  
1" = 1'-0"



**2 PLUMBING GRAVITY SYSTEMS UNDERSLAB NEW WORK**  
1" = 1'-0"

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**Health Department Addition/Renovation**  
 Berkeley County  
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PLUMBING GRAVITY SYSTEMS NEW WORK  
 PLOT SCALE: 1/8" = 1'-0"  
 FILENAME:  
 DATE: 04/15/2024

**PROJECT 3702**  
**P1.1**



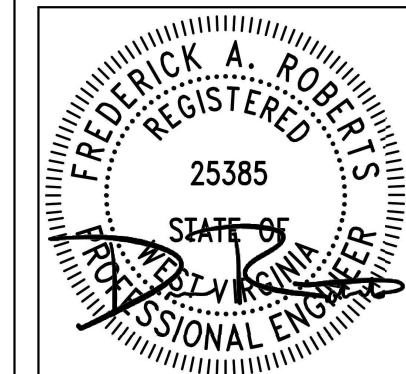
**PLUMBING - SANITARY/STORM GENERAL NOTES**

- A. REFER TO SHEET P0.1 FOR PLUMBING SYMBOLS & LEGENDS.
- B. REFER TO P3.1 FOR PLUMBING SCHEDULE & DETAILS.
- C. REFER TO P4.0 SHEET SERIES FOR PLUMBING RISERS.
- D. STORM WATER FLOWS BASED ON A STORM OF 1-HOUR DURATION AND A 100-YEAR RETURN PERIOD
  - MARTINSBURG, WEST VIRGINIA  $\approx$  2.75"/HR
  - GPM/SF = 0.0286
- E. ALL GRAVITY PIPING SHALL BE INSTALLED WITH THE MINIMUM SLOPE REQUIREMENTS OUTLINED IN THE WEST VIRGINIA PLUMBING CODE.

**TAGGED NOTES**

- P-01 CONTRACTOR TO CONFIRM THE EXACT LOCATION AND INVERT OF THE EXISTING SANITARY LEAVING THE BUILDING. ROUTING TO THE SITE CONNECTION WILL NEED TO BE VERIFIED. EXISTING SITE SANITARY WILL NEED TO BE REROUTED TO AVOID ANY STRUCTURAL CONFLICTS OR THE ADDITION BUILDING'S STRUCTURE WILL NEED TO BE ADAPTED TO THE EXISTING ROUTING.
- P-04 REFER TO CIVIL PLANS(S) FOR CONTINUATION.
- P-05 ASSUMED EXISTING DOMESTIC WATER ENTRANCE.
- P-06 ADDITION ROOF DRAINED VIA GUTTERS AND DOWNSPOUTS. REFER TO SHEET P1.1 FOR DOWNSPOUT LOCATIONS.
- P-07 EXISTING BUILDING NEW SANITARY ROUTING IS SHOW AS REPRESENTATIONAL PURPOSES ONLY. CONTRACTOR SHALL CONFIRM THE BEST ROUTING TO TIE INTO THE SITE SANITARY.
- P-11 NEW DOMESTIC WATER ENTRANCE FROM SITE.

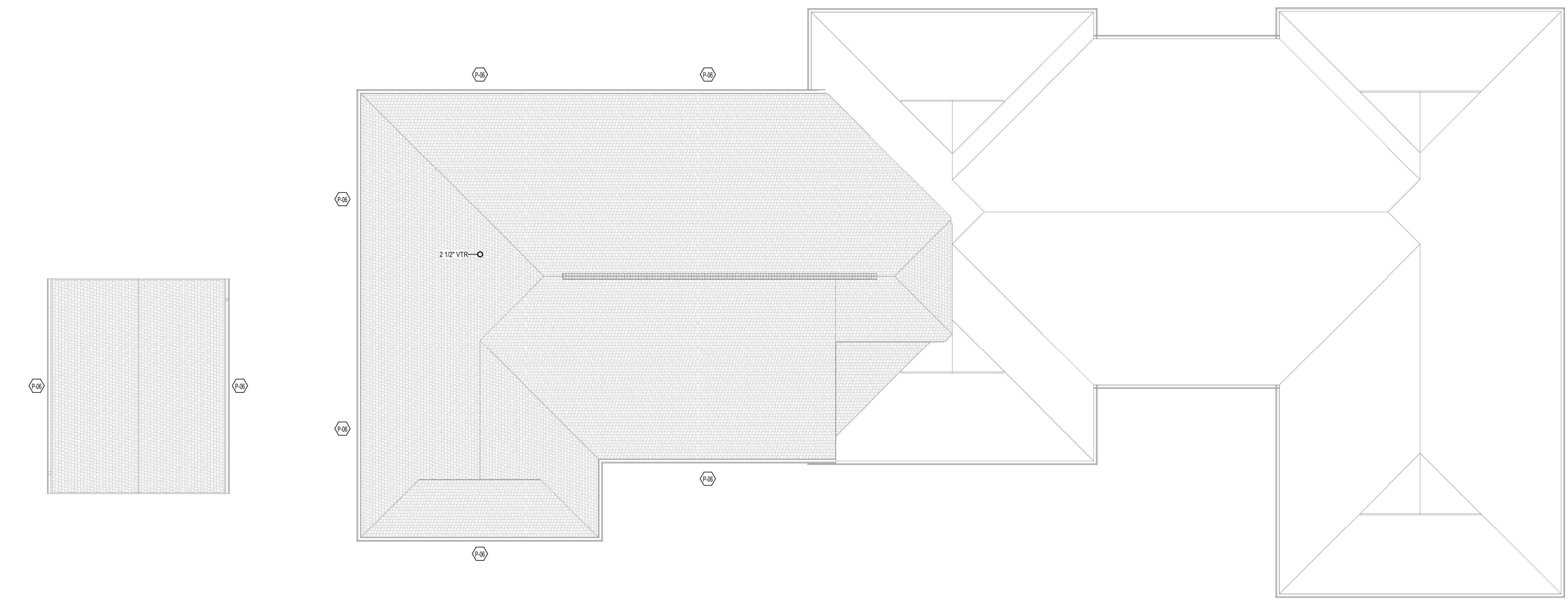
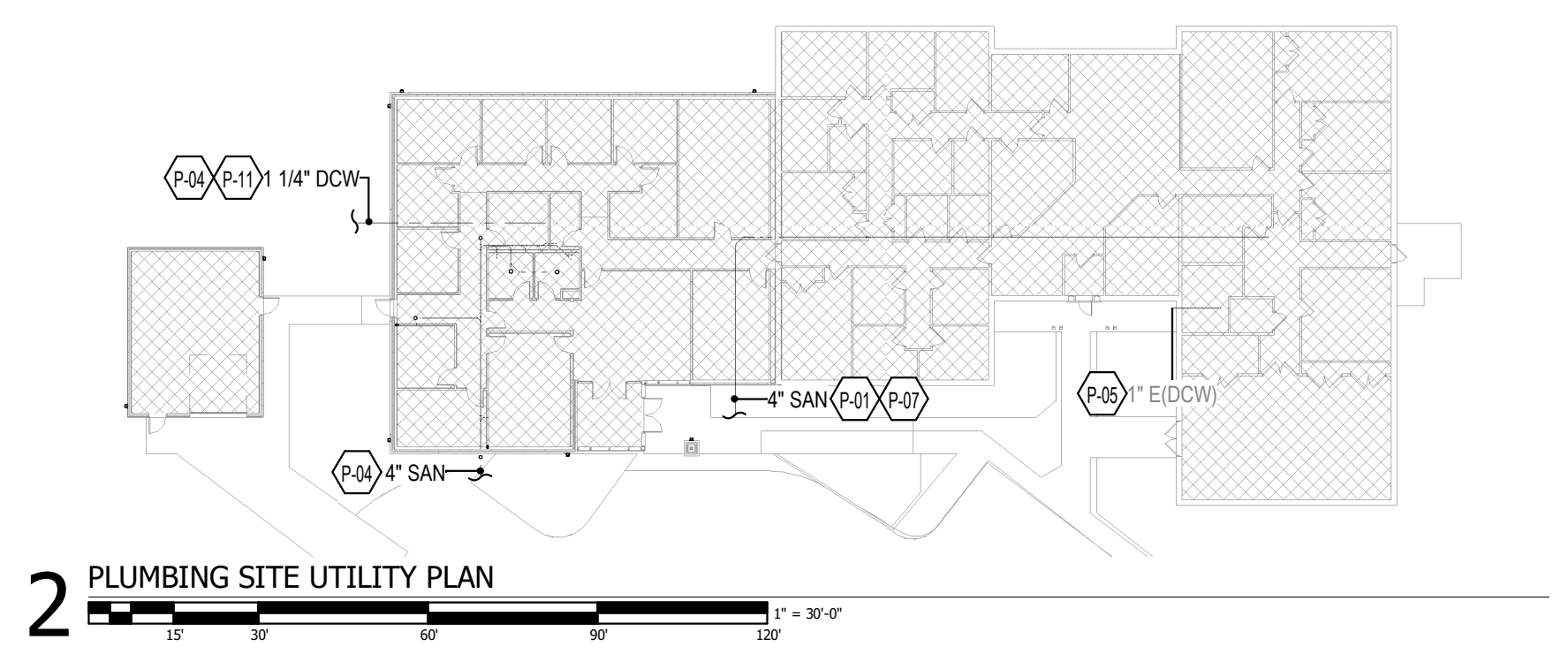
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**1** PLUMBING GRAVITY SYSTEMS ROOF NEW WORK  
1" = 1'-0"

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 Berkeley County  
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PLUMBING GRAVITY SYSTEMS ROOF & SITE UTILITIES NEW WORK  
 PLOT SCALE: As indicated  
 FILENAME:  
 DATE: 04/15/2024

**PROJECT**  
 3702  
**P1.2**

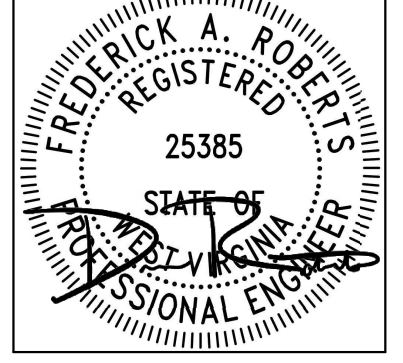
**PLUMBING - DOMESTIC WATER GENERAL NOTES**

- A. REFER TO SHEET P0.1 FOR PLUMBING SYMBOLS & LEGENDS.
- B. REFER TO P3.1 FOR PLUMBING SCHEDULES & DETAILS.
- C. REFER TO P4.0 SERIES SHEETS FOR PLUMBING RISERS.
- D. ALL BRANCH PIPING SERVING FIXTURES, APPLIANCES, EQUIPMENT, ETC SHALL HAVE A LINE SIZED BALL VALVE UPSTREAM OF THE CONNECTION.
- E. AT FIRST FLOOR CAST-IN-PLACE SLABS AND WALLS, ALL PENETRATIONS MUST BE PLANNED TO BE SLEEVED AND NOT CORED. REFER TO 03 3000 CIP CONCRETE SPECIFICATION.
- F. TEMPERED WATER TO BE DELIVERED TO ALL LAVATORIES.
- G. CONTRACTOR SHALL DISINFECT THE POTABLE WATER SYSTEM AS OUTLINED IN SECTION 610 OF THE WEST VIRGINIA PLUMBING CODE PRIOR TO USE.

**TAGGED NOTES**

- P-08 PROVIDE NEW WATER SOFTENING MINERAL AND BRINE TANK TO MATCH THE EXISTING. PIPE IN ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- P-10 WATER SOFTENER DRAIN PIPING TO BE ROUTED MSB-1.

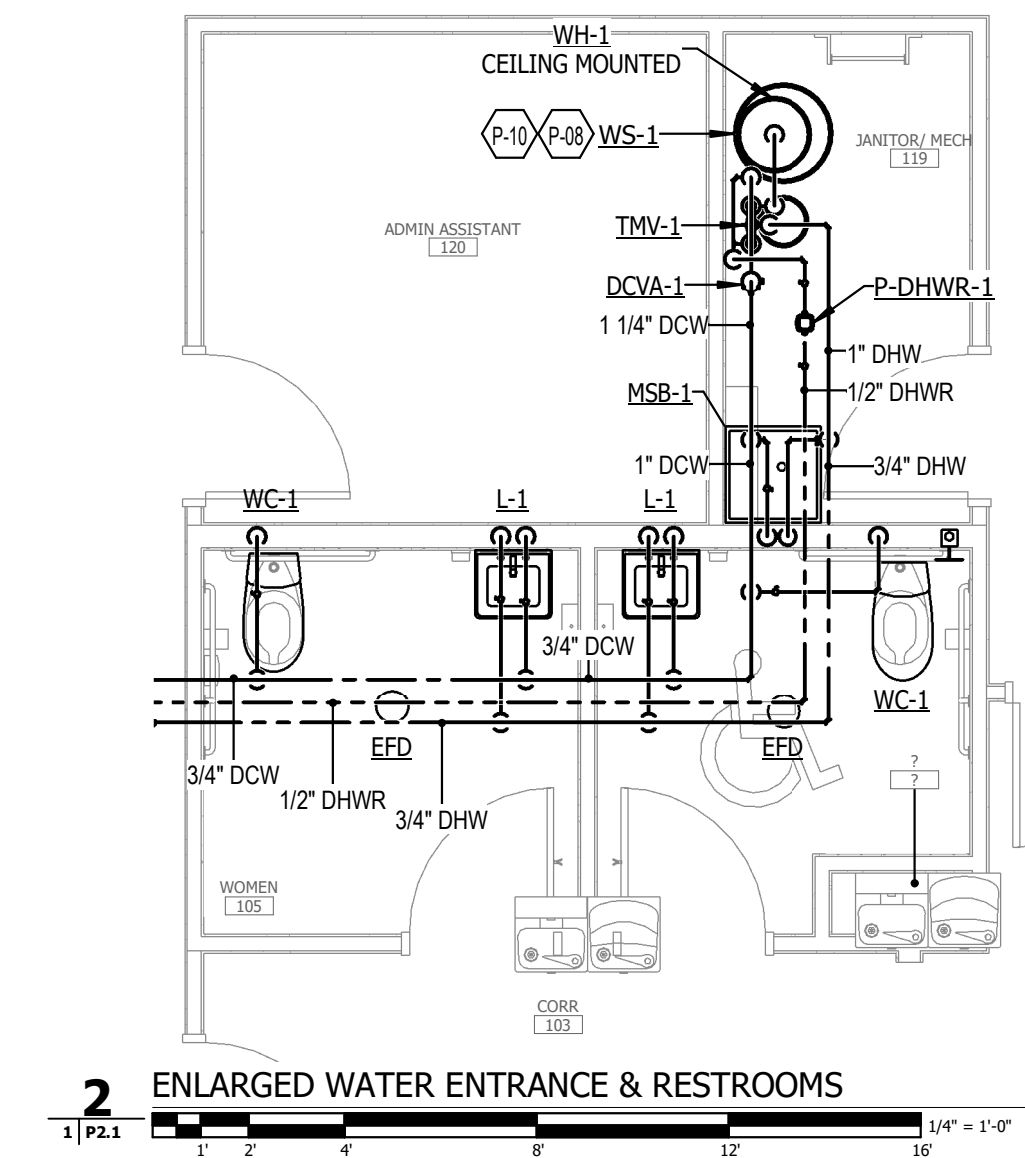
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**1 PLUMBING PRESSURIZED SYSTEMS FIRST FLOOR NEW WORK**  
1" = 1'-0"

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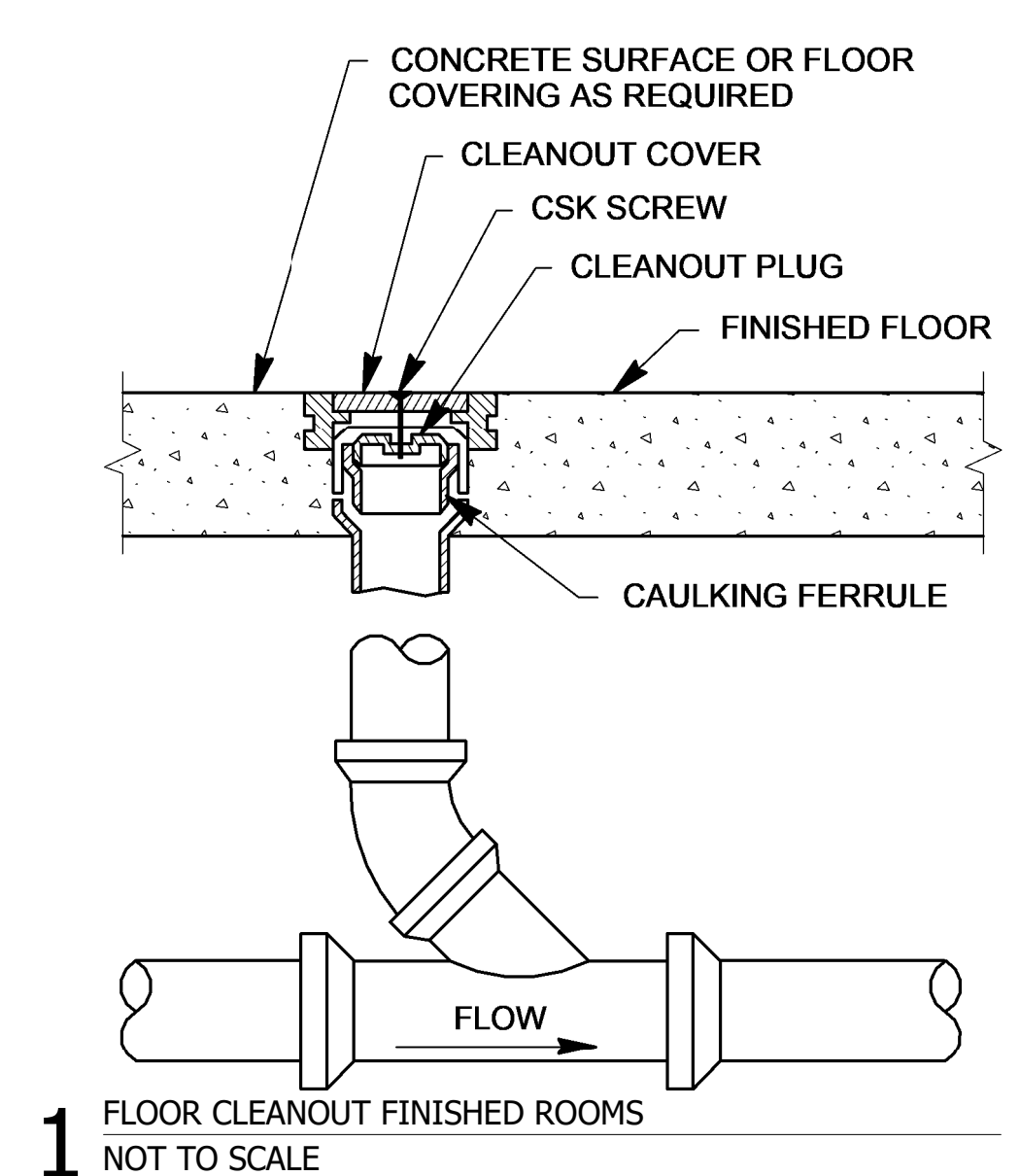
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122 Waverly Court, Martinsburg WV 25403



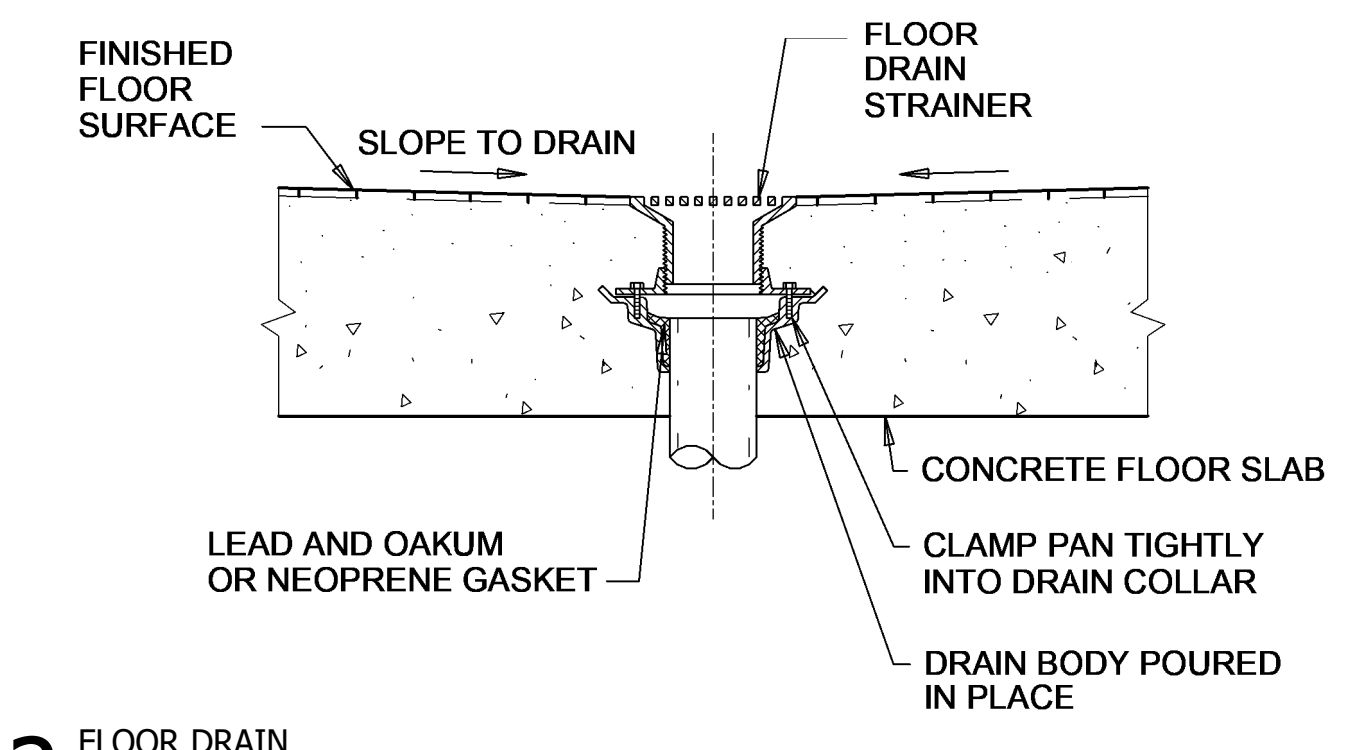
PLUMBING PRESSURIZED SYSTEMS FIRST FLOOR NEW WORK  
PLOT SCALE: As indicated  
FILENAME:  
DATE: 04/15/2024

**PROJECT 3702**  
**P2.1**

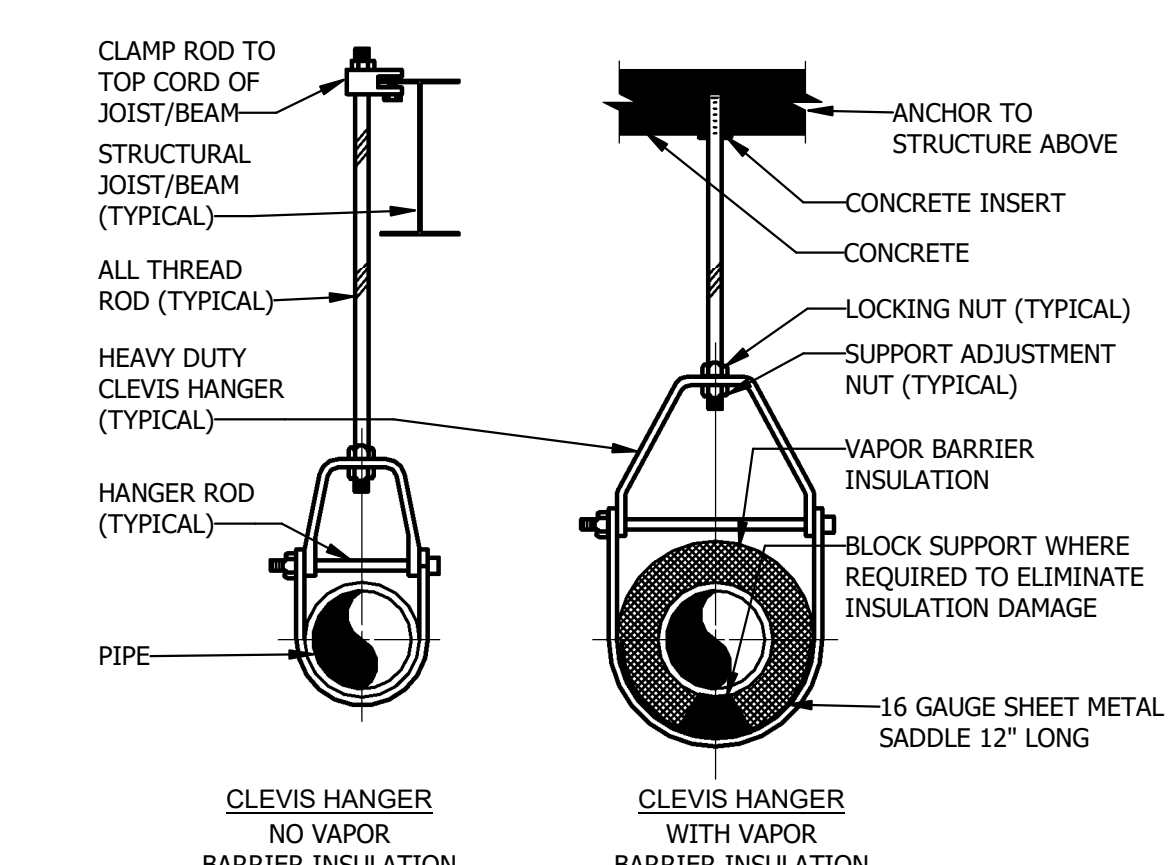




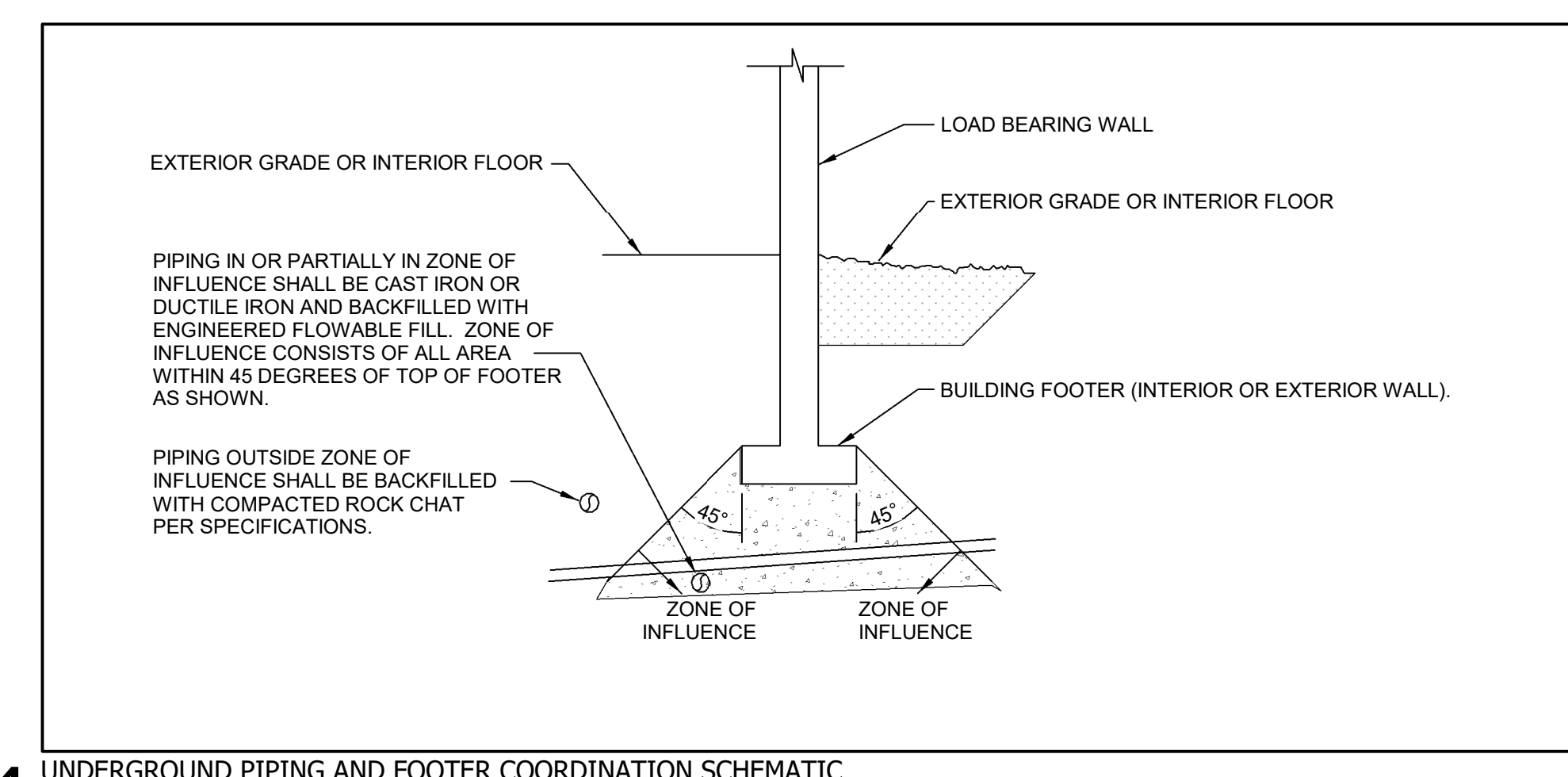
1 FLOOR CLEANOUT FINISHED ROOMS  
NOT TO SCALE



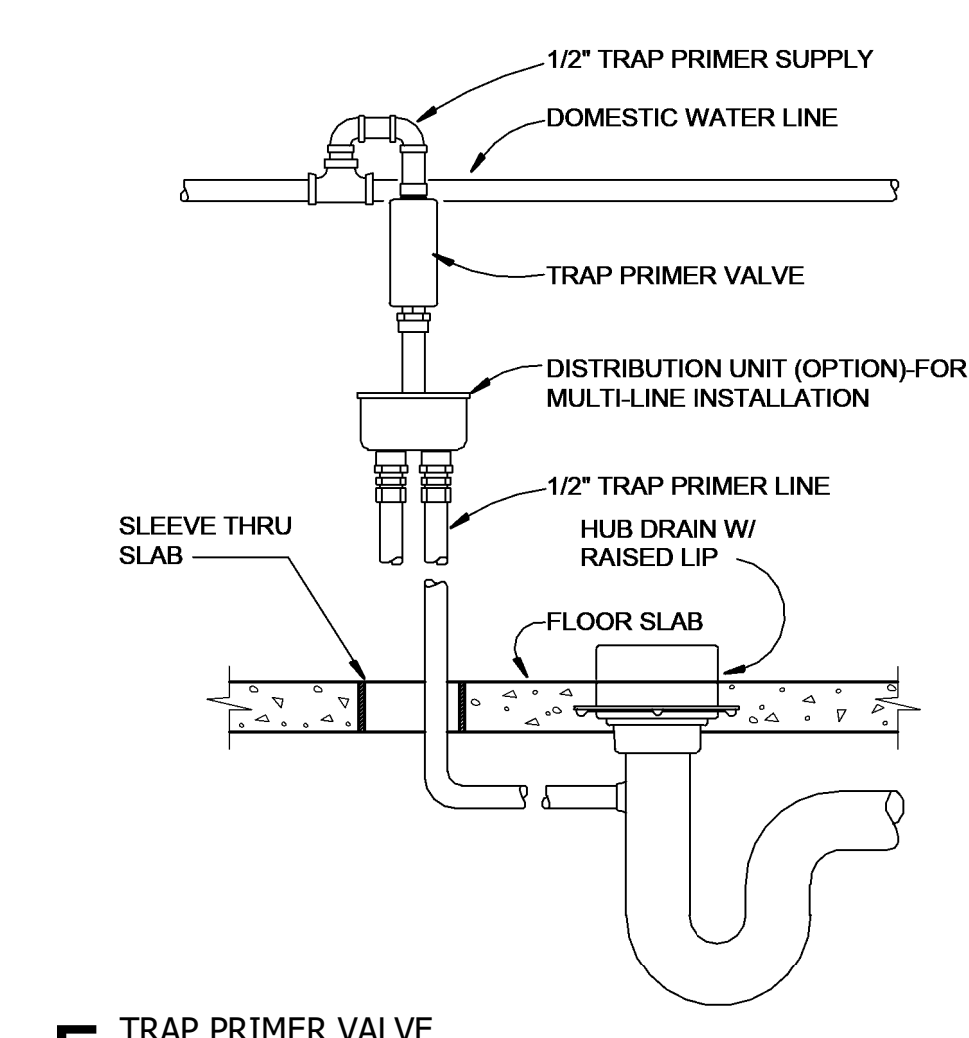
2 FLOOR DRAIN  
NOT TO SCALE



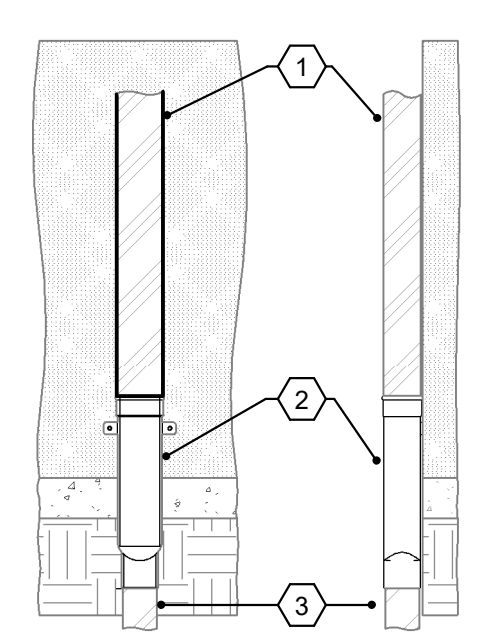
3 PIPE HANGER DETAIL  
NOT TO SCALE



4 UNDERGROUND PIPING AND FOOTER COORDINATION SCHEMATIC  
NOT TO SCALE



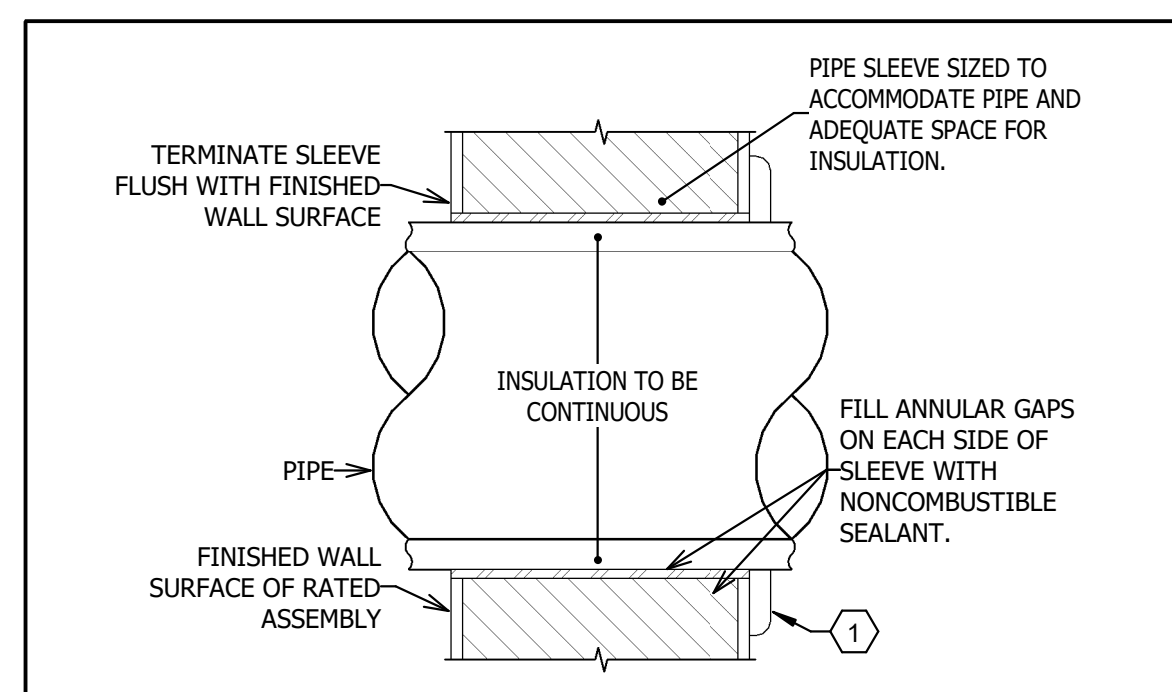
5 TRAP PRIMER VALVE  
NOT TO SCALE



6 DOWN SPOUT BOOT  
NOT TO SCALE

**TAGGED NOTES**

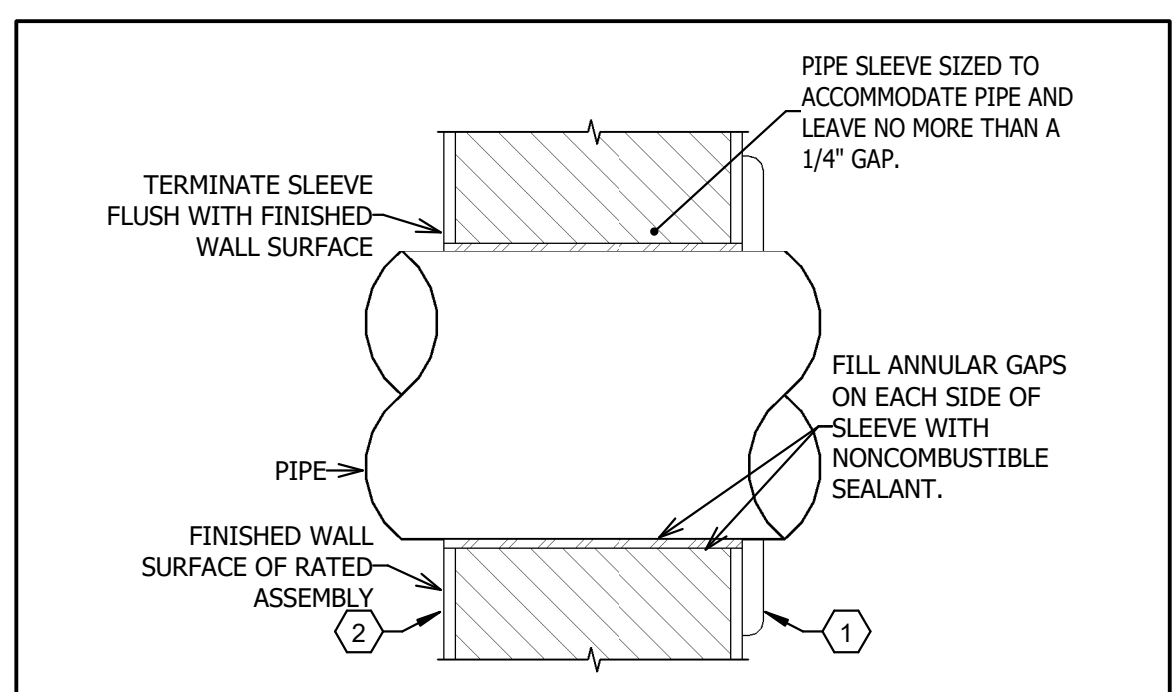
- 5" x 6" METAL CONDUCTOR. REFER TO ARCHITECTURAL PLAN(S) AND DETAIL(S) FOR CONNECTIONS TO HORIZONTAL GUTTER SYSTEM. REFER TO THE ARCHITECTURAL PLAN(S) FOR HORIZONTAL AND VERTICAL CONDUCTORS.
- CAST IRON DOWNSPOUT BOOT, WATTS RD-980 OR SIMILAR. BOOT SHALL BE PROVIDED WITH AN INTEGRAL CLEANOUT FOR CONVENIENCE AND BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO SUPPLY AND INSTALL. MOUNTING HEIGHT OF THE DOWNSPOUT BOOT SHALL BE COORDINATED WITH THE ARCHITECT AND SHALL NOT INTERFERE WITH ANY ARCHITECTURAL FEATURES.
- STORM PIPING WITHIN 5' OF THE EXTERIOR WALL SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. REFER TO PLUMBING DRAWING(S) FOR LOCATIONS. OUTSIDE OF 5' OF THE EXTERIOR WALL SHALL BE THE RESPONSIBILITY OF THE CIVIL CONTRACTOR(S). REFER TO CIVIL PLAN(S) FOR STORM CONTINUATION AND PIPE SIZING.



7 INSULATED PIPE PENETRATION THROUGH INTERIOR FIRE RATED WALLS  
NOT TO SCALE

**NOTES**

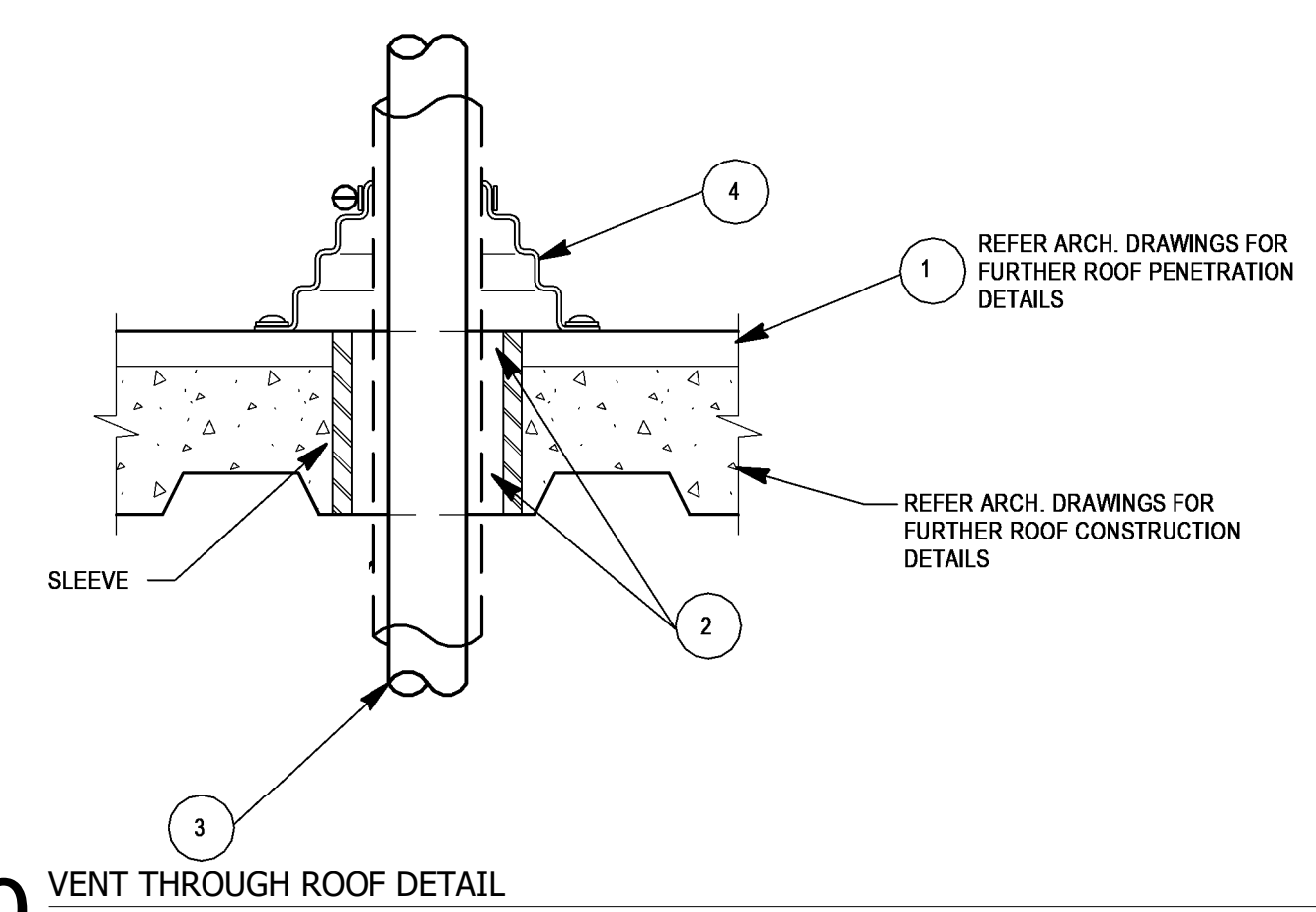
- PROVIDE STAINLESS STEEL ESCUTCHEON PLATE SIZED TO COVER THE ENTIRE OPENING IN EXPOSED AREAS ONLY.



8 UNINSULATED PIPE PENETRATION THROUGH INTERIOR FIRE RATED WALLS  
NOT TO SCALE

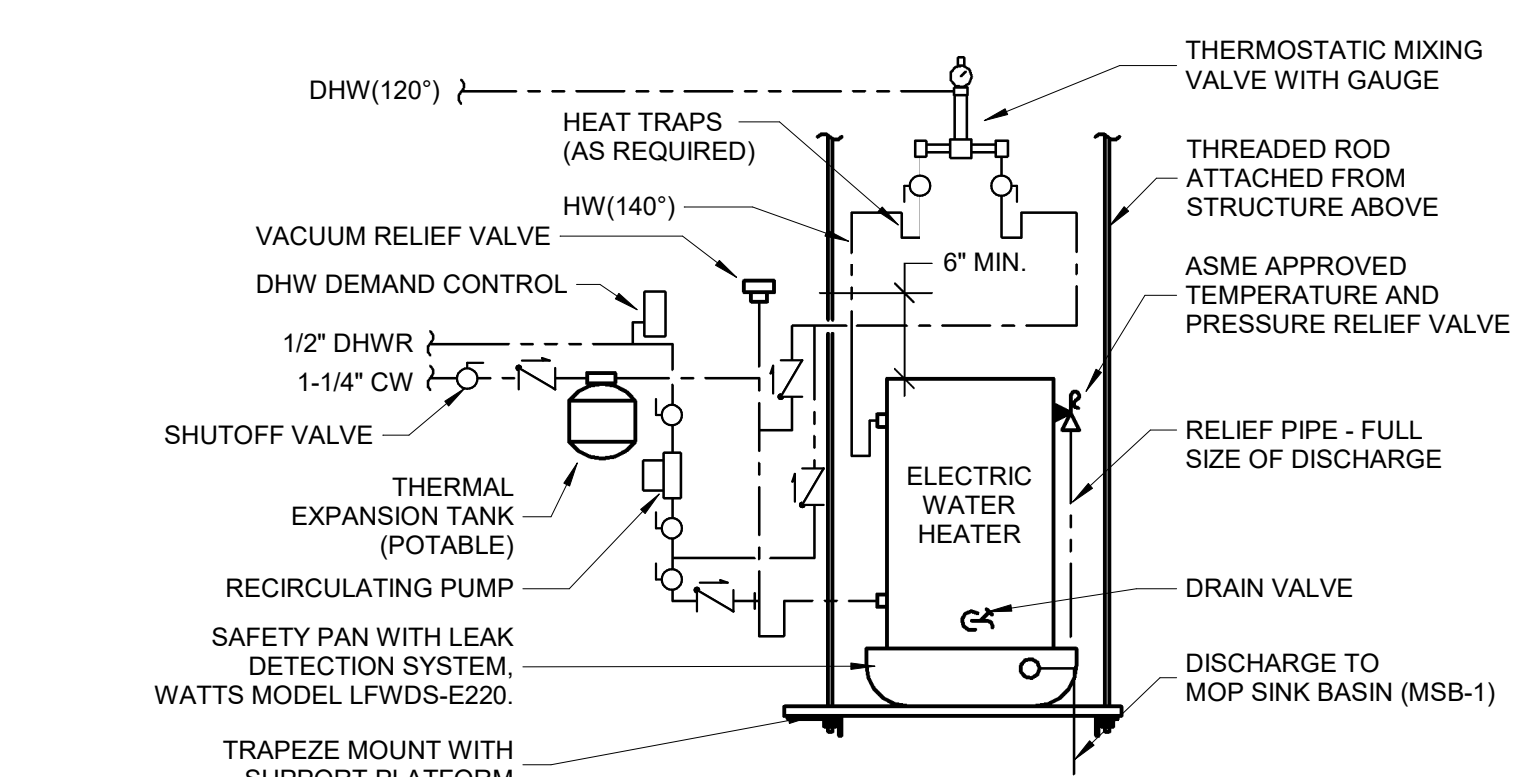
**NOTES**

- PROVIDE STAINLESS STEEL ESCUTCHEON PLATE SIZED TO COVER THE ENTIRE OPENING IN EXPOSED AREAS ONLY.



9 VENT THROUGH ROOF DETAIL  
NOT TO SCALE

- 1 INSULATION AND BUILT UP ROOFING.
- 2 SEAL PENETRATION GAS-TIGHT WITH INSULATION AND FLEXIBLE FIRE RATED SEALANT COMPATIBLE WITH PIPE MATERIAL.
- 3 STANDARD SCHEDULE 40 PVC FOR VENT PIPING SUPPORT RISER WITH APPROPRIATELY SIZED PIPE HANGERS.
- 4 GASKETED FLASHING MATERIAL WITH CIRCUMFERENTIAL PIPE CLAMPS



10 SUSPENDED WATER HEATER DETAIL  
NOT TO SCALE

**221123 - CIRCULATOR PUMP SCHEDULE**

MARK	MANUFACTURER	MODEL	GPH	FEET OF HEAD	W	ELECTRICAL	REMARKS
P-DHW-R-1	GRUNDFOS	UP-10-16	1.5	4.00	5	VOLTAGE 120 FLA	LEAD-FREE RECIRCULATOR PUMP AND SHALL BE NSF RATED FOR POTABLE WATER. PROVIDE WITH NEC COMPLIANT DISCONNECTING MEANS.

**223300 - ELECTRIC WATER HEATER SCHEDULE**

MARK	MANUFACTURER	MODEL	STORAGE CAPACITY (GALLONS)	RECOVERY RATE (GPH @ ΔT °F)	INPUT RATING (KW)	VOLTS	PHASE	HERTZ	F.L.A.	BASIS OF DESIGN
WH-1	AO SMITH	DEL-10-3	10	14 GPH @ 90°F	3	208	1	60	14.4	PROVIDE WITH INTEGRAL NEC COMPLIANT DISCONNECT. WATER HEATER IS CEILING MOUNTED. PROVIDE CEILING MOUNTED STAND. T&P VALVE TO BE ROUTED TO THE MOP-SINK BASIN. PROVIDE WITH AUTOHOT DODDIA FOR DOMESTIC HOT WATER DEMAND CONTROL TO MEET IECC REQUIREMENTS.

**220500 - DOMESTIC WATER ACCESSORY SCHEDULE**

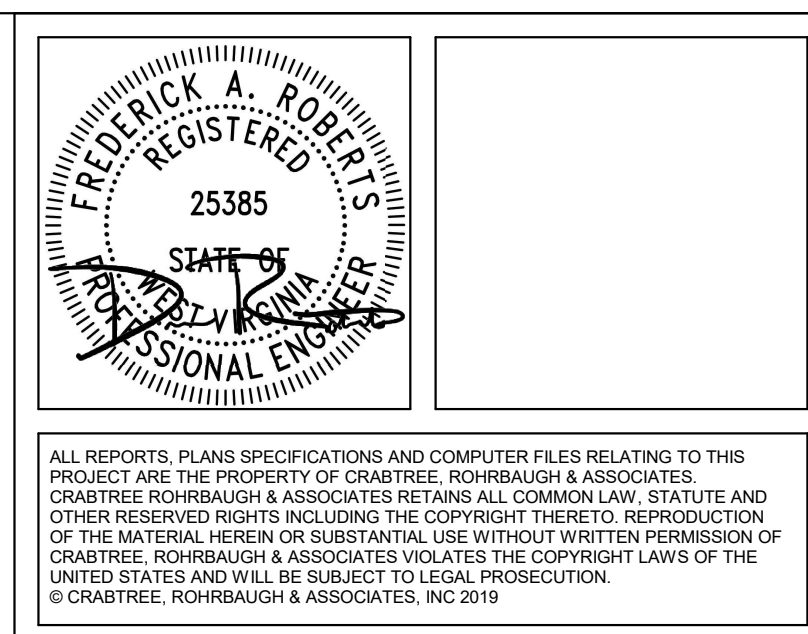
MARK	DESCRIPTION	SYSTEM	LOCATION	MANUFACTURER	MODEL	COMMENTS
DCVA-1	DOUBLE CHECK VALVE ASSEMBLY	DOMESTIC COLD WATER	JAN/WATER 119	WATTS	007-M2-QT-1.25"	RATED FOR POTABLE WATER. NSF COMPLIANT. INSTALL IN A VERTICAL ORIENTATION. VALVE SHALL BE INSTALLED IN A SERVICABLE MANNER.
TMV-1	MASTER MIXING VALVE	DOMESTIC HOT WATER	JAN/WATER 119	WATTS	LF5H1432	THERMOSTATIC MIXING VALVE SHALL COMPLY WITH ASSE 1071 STANDARDS AND NSF 61. THE MIXING VALVE SHALL BE INSTALLED IN A SERVICABLE MANNER.
TMV-1	MASTER MIXING VALVE	DOMESTIC HOT WATER	JAN/WATER 59	WATTS	LF5H1432	THERMOSTATIC MIXING VALVE SHALL COMPLY WITH ASSE 1071 STANDARDS AND NSF 61. THE MIXING VALVE SHALL BE INSTALLED IN A SERVICABLE MANNER.
TMV-1	MASTER MIXING VALVE	DOMESTIC HOT WATER	WATER HEATER CLOSET	WATTS	LF5H1432	THERMOSTATIC MIXING VALVE SHALL COMPLY WITH ASSE 1071 STANDARDS AND NSF 61. THE MIXING VALVE SHALL BE INSTALLED IN A SERVICABLE MANNER.

**223100 - DOMESTIC WATER SOFTENER SCHEDULE**

MARK	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
WS-1	WATER SOFTENER	ATS	TT25M-3T	CONTRACTOR SHALL MATCH THE MODEL IN THE EXISTING BUILDING. PIPE IN ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

**224000 - PLUMBING FIXTURES SCHEDULE**

MARK	DESCRIPTION	MANUFACTURER	MODEL	CONNECTION SIZES				COMMENTS
				DCW	DHW	SAN/ST	VT	
DSB-1	DOWNSPOUT BOOT	WATTS	RD-980		4"			5"x4"x24" EPOXY COATED CAST IRON DOWNSPOUT BOOT WITH COUNTERSUNK SECURING STRAP AND 4" NO HUB PIPE CONNECTION.
ECO-1	EXTERIOR CLEANOUT	MATCH EXISTING	MATCH EXISTING		4"			
EFD	EMERGENCY FLOOR DRAIN	WATTS	FD-200-A	1/2"	2"	1 1/2"		EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, AND NO HUB OUTLET. PROVIDE WITH AN ASSE 1010 AUTOMATIC TRAP PRIMER (WATTS LFTP300T OR SIMILAR) AND CONNECT TO NEARBY CW PIPING.
FCO-1	FLOOR CLEANOUT	WATTS	CO-200		2"			WATTS CO-200-R EPOXY COATED CAST IRON FLOOR CLEANOUT WITH 5"(127) ROUND ADJUSTABLE GASKETED NICKEL BRONZE TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG, AND NO HUB (STANDARD) OUTLET.
FCO-2	FLOOR CLEANOUT	WATTS	CO-200		4"			WATTS CO-200-R EPOXY COATED CAST IRON FLOOR CLEANOUT WITH 5"(127) ROUND ADJUSTABLE GASKETED NICKEL BRONZE TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG, AND NO HUB (STANDARD) OUTLET.
FPWH-1	FREEZE PROOF WALL HYDRANT	WATTS	HY-725	3/4"				CONCEALED NON-FREEZE KEY OPERATED WALL HYDRANT WITH NICKEL BRONZE BOX AND DOOR, CHROME PLATED HYDRANT FACE, INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION, 3/4" FEMALE x 1" MALE PIPE CONNECTION, ALL BRONZE HEAD, SEAT CASTING AND INTERNAL WORKING PARTS, BRONZE WALL CASING, AND LOOSE KEY. COMPLIES WITH ASME B1.20.7 AND ASSE 1019-2011. MOUNT AT 18" ABOVE FINISHED GRADE.
L-1	WALL HUNG LAVATORY	KOHLER / KOHLER	K-1728 / K-15198-4RA	1/2"	1/2"	2"	1 1/2"	SINK: WHITE VITREOUS CHINA WALL HUNG SINK. FAUCET: KOHLER SINGLE CONTROL CENTERSET FAUCET. 0.5 GPM WITHOUT DRAIN OR SIMILAR MODEL-4" CENTERS ACCESSORIES: PROVIDE TRAP, SINK CONNECTOR, SUPPLY STOPS, ESCUTCHEONS, BRAIDED SUPPLY HOSES AND MANUFACTURER PROVIDE WALL HANGER.
MSB-1	MOP SINK BASIN	FIAT / FIAT	MSB2424 / 830AA	3/4"	3/4"	2"	1 1/2"	MOP SINK, 24" X 24" X 12" (610 MM X 610 MM X 305 MM) DEEP, FLOOR MOUNTED, PRECAST TERRAZZO WITH ONE-PIECE STAINLESS-STEEL CAST INTEGRAL CAP ON ALL FOUR SIDES AND INTEGRAL S.S. DRAIN WITH S.S. STRAINER FAUCET: STAINLESS-STEEL SERVICE FAUCET (MODEL 830AA) WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD. ACCESSORIES: PAIL HOOK, MOP HANGER, HOSE, WALL GUARDS (MODEL MGS2424), VANDAL PROOF DRAIN ASSEMBLY (MODEL 91340075000)
S-1	HAND SINK	DAYTON / DELTA	D12521 / 27C2925	1/2"	1/2"	2"	1 1/2"	SINK: STAINLESS-STEEL SINGLE BOWL DROP-IN SINK. THREE HOLE ON 4" CENTERS. FAUCET: DELTA FAUCET MODEL 27C2925. TWO HANDLE 8" BELOW DECK MOUNT FAUCET ACCESSORIES: CONTRACTOR SHALL PROVIDE TRAP, SINK CONNECTOR, SUPPLY STOPS, ESCUTCHEONS AND SUPPLY HOSES.
WC-1	PRESSURE ASSISTED TANK TYPE WATER CLOSET	KOHLER	K-3519	1/2"		3"	2"	WATER CLOSET: FLOOR MOUNT BOTTOM OUTLET ELONGATED TANK TYPE TOILET, 1.0 GPF, WHITE VITREOUS CHINA ACCESSORIES: PROVIDE WITH SUPPLY STOP AND BRAIDED SUPPLY HOSE.
WCO-1	WALL CLEANOUT	WATTS	CO-460-RD					CAST IRON STACK CLEANOUT WITH GASKETED BRASS COUNTERSINK PLUG, STAINLESS STEEL ACCESS COVER, VANDAL PROOF STAINLESS STEEL SCREW, AND NO HUB CONNECTIONS. CONTRACTOR SHALL PLUG THE TOP WITH FERROCO CAP OR SIMILAR.



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 WWW.CMTA.COM

PLUMBING SCHEDULES & DETAILS

PROJECT 3702

PLOT SCALE: As indicated

FILENAME: P3.1

DATE: 04/15/2024

