

PLUMBING FIXTURE SCHEDULE:

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| WC-1 | PROVIDE A KOHLER MODEL K-3999-UT VITREOUS CHINA TANK TYPE, FLOOR MOUNTED, WATER CLOSET WITH ELONGATED BOWL, OR EQUAL. WATER CLOSET SHALL BE A (2) PIECE TYPE WATER CLOSET WITH A MAXIMUM WATER USAGE OF 1.28 GALLONS PER FLUSH AND 16-1/2" HIGH BOWL. TANK TO BE INSULATED AND COME COMPLETE WITH TANK COVER LOCKS. PROVIDE WITH A EXTRA HEAVY SOLID PLASTIC SEAT WITH AN OPEN FRONT AND SELF-SUSTAINING STAINLESS STEEL CHECK HINGES EQUAL TO BEMIS 1655SCT. PROVIDE COLD WATER INLET WITH 1/4 TURN ANGLE BALL STOP WITH 1/2" IPS INLET AND 3/8" IPS OUTLET EQUAL TO BRASSCRAFT MODEL KTRC19. STOP TO BE ALL BRASS WITH REMOVABLE HANDLE RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOP WITH CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLY FROM STOP TO WATER CLOSET. PROVIDE WATER CLOSET WITH HEAVY DUTY CLOSET FLANGE MATCHING PIPING MATERIAL. WATER CLOSET AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT WITH FLUSH HANDLE ON WIDE SIDE OF ROOM. |
| L-1 | PROVIDE A KOHLER MODEL K-2031 VITREOUS CHINA WALL HUNG LAVATORY WITH FLOOR MOUNTED CONCEALED ARM CARRIER, OVERFLOW AND SINGLE FAUCET HOLE OR EQUAL. PROVIDE CHROME PLATED 17 GAUGE 1-1/4 X 1-1/2 BRASS P-TRAP WITH CLEANOUT EQUAL TO PROFLOW MODEL PFTB104. PROVIDE OFFSET LAVATORY GRID DRAIN EQUAL TO PROFLO MODEL PFGD101. PROVIDE A MOEN MODEL 9417F12 SINGLE HOLE AND DUAL SUPPLY FAUCET. FAUCET TO HAVE SINGLE LEVER HANDLE, STAINLESS STEEL SUPPLY LINES AND 1.2 GPM FLOW OUTLET. PROVIDE A ZURN MODEL ZW3870XLT THERMOSTATIC MIXING VALVE (ASME 1070 COMPLIANT), SET OUTLET TO 105°. PROVIDE COLD & HOT WATER INLETS WITH 1/4 TURN ANGLE BALL STOPS WITH 1/2" IPS SWEAT INLET AND 3/8" IPS COMPRESSION OUTLET EQUAL TO BRASSCRAFT MODEL KTR19X. STOPS TO BE ALL BRASS WITH REMOVABLE HANDLE RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOPS WITH CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLIES FROM STOPS TO MIXING VALVE AND FROM MIXING TO FAUCET INLET. PROVIDE FULLY ADJUSTABLE CONCEALED ARM, FLOOR MOUNTED LAVATORY CARRIER, ADJUSTED TO ADA HEIGHT EQUAL TO ZURN Z1231. PROVIDE HANDICAP INSULATION. LAVATORY AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT. |
| L-2 | PROVIDE A KOHLER MODEL K-2031 VITREOUS CHINA WALL HUNG LAVATORY WITH FLOOR MOUNTED CONCEALED ARM CARRIER, OVERFLOW AND SINGLE FAUCET HOLE OR EQUAL. PROVIDE CHROME PLATED 17 GAUGE 1-1/4 X 1-1/2 BRASS P-TRAP WITH CLEANOUT EQUAL TO PROFLOW MODEL PFTB104. PROVIDE A CHROME PLATED PUSH ACTIVATED POP-UP DRAIN AND TAILPIECE EQUAL TO PROFLO MODEL PF323CP. PROVIDE A MOEN MODEL 9417F12 SINGLE HOLE AND DUAL SUPPLY FAUCET. FAUCET TO HAVE SINGLE LEVER HANDLE, STAINLESS STEEL SUPPLY LINES AND 1.2 GPM FLOW OUTLET. PROVIDE A ZURN MODEL ZW3870XLT THERMOSTATIC MIXING VALVE (ASME 1070 COMPLIANT), SET OUTLET TO 105°. PROVIDE COLD & HOT WATER INLETS WITH 1/4 TURN ANGLE BALL STOPS WITH 1/2" IPS SWEAT INLET AND 3/8" IPS COMPRESSION OUTLET EQUAL TO BRASSCRAFT MODEL KTR19X. STOPS TO BE ALL BRASS WITH REMOVABLE HANDLE RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOPS WITH CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLIES FROM STOPS TO MIXING VALVE AND FROM MIXING TO FAUCET INLET. PROVIDE FULLY ADJUSTABLE CONCEALED ARM, FLOOR MOUNTED LAVATORY CARRIER, ADJUSTED TO ADA HEIGHT EQUAL TO ZURN Z1231. PROVIDE HANDICAP INSULATION. LAVATORY AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT. |
| SH-1 | PROVIDE A SYMMONS MODEL C-96-500-B30-V-X SHOWER/HAND SHOWER SYSTEM. SHOWER VALVE TO BE PRESSURE-BALANCING WITH BRASS BODY, ADJUSTABLE LIMIT STOP AND SCREWDRIVER STOPS. SYSTEM TO COME COMPLETE WITH 2.0 GPM FLOW RESTRICTOR, SHOWER HEAD, 60" HOSE & HAND SHOWER, 30" SLIDER BAR, VACUUM BREAKER AND DIVERTER VALVE. ALL EXPOSED METAL PARTS TO BE CHROME PLATED. PROVIDE A SIOUX CHIEF MODEL 827-28 SHOWER DRAIN OR BY SHOWER MANUFACTURER. DRAIN SHALL HAVE A BRASS 1/4" X 1/2" BRASS LOCKNUT, OUTER FIBRE WASHER, OUTER GASKET, STAINLESS STEEL STRAINER, INNER COMPRESSION GASKET & COMPRESSION NUT, AND 2" BOTTOM OUTLET. PROVIDE WITH DEEP SEAL TRAP. SHOWER AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT. |
| S-1 | PROVIDE A ELKAY MODEL LR3319 STAINLESS STEEL DOUBLE BOWL, TOP MOUNT SINK OR EQUAL. SINK TO BE 18 GAUGE TYPE 304 STAINLESS STEEL, "33"x19-1/2" OVERALL, BOWL SIZE = 14"x14"x7-5/8" DEEP, PUNCHED FOR 3 HOLES, AND POLISHED TO A SATIN FINISH. SINK TO COME COMPLETE WITH AN ELKAY LK-35 STAINLESS STEEL DRAINS. PROVIDE A CHICAGO FAUCETS MODEL 201-RSH48AE35VXKAB HIGH ARCH SWING FAUCET. FAUCET TO HAVE A 8" RESTRICTED SWING HIGH ARCH SPOUT AND VANDAL PROOF 2-3/8" LEVER HANDLES, CERAMIC 1/4-TURN CARTRIDGES AND VANDAL PROOF 1.5 GPM BODY BRASS LOCKNUT. SET FAUCET SWING TO 120°. PROVIDE STOPS WITH CHROME WALL ESCUTCHEON AND STAINLESS STEEL FLEXIBLE SUPPLIES FROM STOPS TO MIXING VALVE AND FROM MIXING TO FAUCET INLET. PROVIDE FULLY ADJUSTABLE CONCEALED ARM, FLOOR MOUNTED LAVATORY CARRIER, ADJUSTED TO ADA HEIGHT EQUAL TO ZURN Z1231. PROVIDE HANDICAP INSULATION. LAVATORY AND ASSOCIATED APPURTENANCES SHALL BE ADA COMPLIANT. |
| LT-1 | PROVIDE A FIAT MODEL FL-1 MOLDED STONE, FLOOR MOUNTED SERVICE SINK OR EQUAL. SINK TO COME COMPLETE WITH DRAIN, STOPPER, WHITE BAKED ENAMEL ANGLE LEGS AND LEVELING DEVICES. PROVIDE A FIAT MODEL A1 DUAL SUPPLY MIXING FAUCET OR EQUAL. FAUCET TO HAVE 4" CENTERS, DUAL 4" BLADE HANDLES, 360° SWING SPOUT AND ALL METAL CONSTRUCTION. PROVIDE COLD WATER AND HOT WATER INLETS WITH 1/4 TURN ANGLE BALL STOPS WITH 1/2" IPS INLET AND 3/8" IPS OUTLET EQUAL TO BRASSCRAFT MODEL KTRC19. STOPS TO BE ALL BRASS WITH REMOVABLE HANDLE RATED FOR TEMPERATURES GREATER THAN 115 DEG F. PROVIDE STOPS WITH CHROME WALL ESCUTCHEONS. PROVIDE WITH 12" S.S. FLEXIBLE RISERS & ESCUTCHEONS. PROVIDE CHROME PLATED 17 GAUGE 2" X 2" P-TRAP WITH CLEANOUT. |
| MS-1 | PROVIDE A FIAT MODEL TSB3000 24"x24"x12" TERRAZZO MOP SINK WITH 6" DROP FRONT AND STAINLESS STEEL CAPS, OR EQUAL. MOP SINK TO BE COMPLETE WITH INTEGRAL STAINLESS STEEL DRAIN BODY AND STAINLESS STEEL CAPS ON ALL CURBS. PROVIDE MOP HANGER CONSISTING OF 24"x3" WIDE STAINLESS STEEL PLATE WITH 3 RUBBER TROL GRIPS, HOSE AND HOSE BRACKET, AND FIAT MODEL MSG2424 24"x24" STAINLESS STEEL WALL GUARD ON 2 SIDES. PROVIDE A CHICAGO FAUCETS MODEL 445-897SRGXKCP CHROME PLATED BRASS FAUCET OR EQUAL. FAUCET TO BE COMPLETE WITH VACUUM BREAKER, INTEGRAL CHECK STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 3/4 INCH HOSE THREAD ON SPOUT. |
| ES-1 | PROVIDE A BRADLEY MODEL S19314B82DEEA COMBINATION DRENCH SHOWER AND EYEWASH SAFETY STATION OR EQUAL. ALL METAL PARTS TO BE STAINLESS STEEL. STATION TO INCLUDE: 1-1/4" TYPE 304 S.S. SCHEDULE 40 PIPE STAND/SUPPLY WITH FLOOR FLANGE, 1-1/4" TOP AND BOTTOM SUPPLY CONNECTIONS, 1-1/4" DRAIN OUTLET, TYPE 304 S.S. BOWL & DUST COVER WITH 5.1 GPM TYPE 304 S.S. HALO EYE/FACE WASH SYSTEM, 1/2" TYPE 316 S.S. STAY-OPEN EYE/FACE WASH BALL VALVE, TYPE 304 S.S. PUSH HANDLE THAT FLIPS OPEN DUST COVER AND ACTIVATES EYE/FACE WASH, 22 GPM, TYPE 304 S.S. SHOWER HEAD, 1" TYPE 316 S.S. STAY-OPEN SHOWER BALL VALVE WITH TYPE 304 S.S. ACTUATING PULL ROD AND HANDLE. SECURELY MOUNT BOTTOM FLANGE TO FLOOR. |
| TMV-1 | PROVIDE A POWERS MODEL ETV200 THERMOSTATIC WATER TEMPERING VALVE & CABINET OR EQUAL. CABINET TO BE STAINLESS STEEL AND SEMI-RECESSED WITH TOP INLETS AND BOTTOM OUTLET. VALVE SHALL BE LEAD FREE BRASS WITH INTEGRAL UNION CHECK STOPS, ROUGH BRONZE FINISH, ADJUSTABLE & LOCKABLE TEMPERATURE SETTING, 3/4" INLETS & 1" OUTLET, INTERNAL COLD WATER BYPASS, MIXED OUTLET SHUTOFF VALVE & TEMPERATURE GAUGE. VALVE TO BE CAPABLE OF 3.0 GPM MINIMUM FLOW & A MAXIMUM PRESSURE DROP OF 15 PSIG AT 23 GPM AND HAVE ASSE 1071 APPROVAL. SET OUTLET TEMPERATURE TO 85°F. COORDINATE WALL THICKNESS REQUIREMENT WITH GENERAL CONTRACTOR. |
| HB-1 | PROVIDE A WOODFORD MODEL 24-3/4" EXPOSED BRASS HOSE BIBB OR EQUAL. HOSE BIBB TO HAVE VACUUM BREAKER BACKFLOW PREVENTER, 3/4" FEMALE PIPE THREAD CONNECTION AND ALL METAL WHEEL HANDLE. MOUNT HB 18" ABOVE FINISHED FLOOR. |
| WH-1 | PROVIDE A WOODFORD MODEL 67 FREEZELESS WALL HYDRANT. HYDRANT TO BE FREEZELESS, AUTOMATIC DRAINING WITH BACKFLOW PREVENTER, 3/4" INLET AND OUTLET, LOOSE KEY OPERATION AND CHROME PLATED FINISH. TURN KEY OVER TO OWNER. COORDINATE WITH WALL THICKNESS PRIOR TO ORDERING. |
| OB-1 | PROVIDE A GUY GRAY MODEL FRIB12S FIRE RATED RECESSED SUPPLY BOX WITH WALL FLANGE. FURNISH WITH 1/2" X 1/4" QUARTER TURN ANGLE VALVE. SUPPLY BOX DIMENSIONS TO BE A MAXIMUM 6" X 6". ON THE LEAVING SIDE OF THE VALVE, PROVIDE A 4 FOOT COIL OF ROLL TYPE "K" SOFT COPPER. MOUNT BOX BEHIND EQUIPMENT, COORDINATE MOUNTING HEIGHT WITH EQUIPMENT PRIOR TO ROUGH-IN. |
| OB-2 | PROVIDE A GUY GRAY MODEL T200T RECESSED WASHING MACHINE OUTLET BOX WITH WALL FLANGE OR EQUAL. BOX TO BE WHITE POWDER COATED STEEL, 20 GAUGE BOX AND 20 GAUGE FACEPLATE, WATER TIGHT CONSTRUCTION WITH SLOPED BOTTOM. FURNISH WITH 1/2" QUARTER TURN ANGLE VALVES AND 2" BOTTOM OUTLET. MOUNT BOX BEHIND WASHING MACHINE, COORDINATE MOUNTING HEIGHT WITH EQUIPMENT. CONTRACTOR TO MAKE THE FINAL CONNECTION TO THE WASHING MACHINE. |
| FD-1 | PROVIDE A ZURN MODEL Z415B-VP FLOOR DRAIN OR EQUAL. FLOOR DRAIN SHALL HAVE A COATED CAST IRON BODY, BOTTOM OUTLET, COMBINATION REVERSIBLE CLAMP COLLAR AND ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, 3" OUTLET, 6" ROUND TOP, AND VANDAL PROOF. PROVIDE WITH DEEP SEAL TRAP AND TRAP PRIMER CONNECTION. CONNECT TO GREASE WASTE PIPING |
| HD-1 | HUB DRAIN: INSTALL PIPE INCREASER ON 2" PIPING BELOW FLOOR AND STUB UP 2" ABOVE THE FLOOR. INCREASER TO BE A MINIMUM 4" DIAMETER. |
| BWV | PROVIDE A ZURN MODEL Z109S BACKWATER VALVE OR EQUAL. VALVE TO BE DURA-COATED CAST IRON BODY WITH BRONZE THREADED COVER AND AUTOMATIC PVC FLAPPER. VALVE TO BE SAME SIZE AS PIPING SERVED, REFER TO PLAN VIEWS. |
| TP-1 | PROVIDE A PRECISION PLUMBING PRODUCTS MODEL PRO1-500 OR EQUAL. TRAP PRIMER TO BE INLINE, FLOW ACTIVATED AND ALL BRASS CONSTRUCTION. PROVIDE A PRECISION PLUMBING PRODUCTS DISTRIBUTION UNIT MODEL DU-U FOR PRIMING 2 TO 4 TRAPS AS REQUIRED. |
| TP-2 | PROVIDE A PRECISION PLUMBING PRODUCTS MODEL P2-500 (1 TO 2 TRAPS) OR P1-500 (3 TO 4 TRAPS) OR EQUAL. TRAP PRIMER TO BE ALL BRASS CONSTRUCTION. INSTALL ISOLATION BALL VALVE ON INLET OF TRAP PRIMER. PROVIDE A PRECISION PLUMBING PRODUCTS DISTRIBUTION UNIT MODEL DU-U FOR PRIMING 2 TO 4 TRAPS. |
| WHA | PROVIDE A WATTS MODEL 15M2 WATER HAMMER ARRESTOR OR EQUAL. ARRESTOR TO BE PISTON OR BELLOW'S TYPE, SUITABLE FOR DOMESTIC POTABLE WATER, PDI LISTED AND SIZED PER PDI RECOMMENDATIONS. |

ABBREVIATIONS

| | |
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| AC | ABOVE CEILING |
| AFF | ABOVE FINISHED FLOOR |
| BF | BELOW FLOOR |
| BG | BELOW GRADE |
| CO | CLEANOUT |
| CWV | COMBINATION WASTE & VENT |
| DCW | DOMESTIC COLD WATER |
| DHW | DOMESTIC HOT WATER |
| DHWR | DOMESTIC HOT WATER RETURN |
| DN | DOWN |
| DTW | DOMESTIC TEMPERED WATER |
| FCO | FLOOR CLEANOUT |
| FD | FLOOR DRAIN |
| HB | HOSE BIBB |
| HW | HAZARDOUS WASTE |
| INV | INVERT |
| NTS | NOT TO SCALE |
| SAN | SANITARY WASTE 5' OUTSIDE THE BUILDING |
| TP | TRAP PRIMER |
| V | VENT |
| VTR | VENT THROUGH ROOF |
| W | SANITARY WASTE INSIDE THE BUILDING |
| WH | WALL HYDRANT |
| WHA | WATER HAMMER ARRESTOR |

CODE REFERENCES

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| FBC, BUILDING | FLORIDA BUILDING CODE, 2023 EIGHTH EDITION |
| FBC, MECHANICAL | FLORIDA BUILDING CODE, 2023 EIGHTH EDITION |
| FBC, PLUMBING | FLORIDA BUILDING CODE, 2023 EIGHTH EDITION |
| FBC, TEST PROTOCOL | FLORIDA BUILDING CODE, 2023 EIGHTH EDITION |
| FBC, EXISTING BUILDING | FLORIDA BUILDING CODE, 2023 EIGHTH EDITION |
| FBC, ENERGY | FLORIDA BUILDING CODE, 2023 EIGHTH EDITION |
| FFPC | FLORIDA FIRE PREVENTION CODE, 2023 EIGHTH EDITION |
| NFPA 25 | STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS, 2020 EDITION |
| NFPA 51B | STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK, 2019 EDITION |
| NFPA 70 | NATIONAL ELECTRIC CODE, 2020 EDITION |
| NFPA 101 | LIFE SAFETY CODE, 2021 EDITION |
| NFPA 101A | GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY, 2019 EDITION |

SYMBOLS AND LEGEND

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| | PLUMBING FIXTURE TAG |
| | EXISTING DCW PIPING |
| | DCW PIPING |
| | EXISTING WASTE PIPING |
| | WASTE PIPING |
| | EXISTING VENT PIPING |
| | ITEMS TO BE DEMOLISHED |
| | PIPE BREAK |
| | PIPE TURNED UP |
| | PIPE TURNED DOWN |
| | BOTTOM PIPE TAP |
| | PIPE CAP |
| | FLOOR OR GRADE CLEANOUT |
| | DIRECTION OF FLOW |
| | BALL VALVE |
| | SQUARE FLOOR DRAIN/SINK |
| | ROUND FLOOR DRAIN/SINK |
| | WATER HAMMER ARRESTOR |

WATER HEATER SCHEDULE

| EQUIPMENT NO. | MODEL NO. | FUEL SUPPLY (GAS OR ELEC) | STORAGE CAPACITY (GALLONS) | INPUT BTUH | INPUT KW | RECOVERY @ 60°F RISE (GALLONS) | TEMP. RISE @ 1.5 GPM | SET TEMP. °F | MIN. EFF. | VOLTS-PHASE | AMPS | NOTES |
|---------------|------------|---------------------------|----------------------------|------------|----------|--------------------------------|----------------------|--------------|-----------|-------------|------|-------------|
| EWH-1 | LHC-80 P12 | ELEC | 80 | - | 12.3 | 81 | - | 120 | 96% | 240V-1Ø | 51 | 1,2,3,4,5,6 |

NOTES:

- BASIS OF DESIGN: LOCHINVAR (EQUAL MANUFACTURERS: BRADFORD WHITE, LOCHINVAR, STATE)
- PROVIDE HEATER WITH A TEMPERATURE AND PRESSURE RELIEF VALVE SIZED BY THE UNIT MANUFACTURER.
- PROVIDE UNIT WITH EXPANSION TANK (ET) AS SCHEDULED.
- PROVIDE HEATER WITH A VACUUM BREAKER SIZED BY THE UNIT MANUFACTURER AS REQUIRED.
- PROVIDE A DRAIN PAN PER FLORIDA PLUMBING CODE. ROUTE DRAIN TO NEAREST FLOOR DRAIN.

EXPANSION TANK SCHEDULE

| EQUIPMENT NO. | SYSTEM SERVED | MODEL NO. | TANK VOLUME (GALLONS) | ACCEPTANCE FACTOR (%) | SYSTEM TEMP MIN/MAX | INITIAL FILL PRESSURE | ASME RATED | MAXIMUM SYSTEM PRESSURE | NOTES |
|---------------|--------------------|-----------|-----------------------|-----------------------|---------------------|-----------------------|------------|-------------------------|-------|
| ET-1 | DOMESTIC HOT WATER | ST-5 | 2.0 | 45% | 60°F/120°F | 50 PSI | NO | 150 PSI | 1 |

NOTES:

- BASIS OF DESIGN: AMTROL

DOMESTIC HOT WATER RETURN PUMP SCHEDULE

| EQUIPMENT NO. | MODEL NO. | TYPE | FLUID TEMP. | GPM | FT OF HEAD | HP | RPM | VOLTAGE/ PHASE | NOTES |
|---------------|-----------|---------|-------------|-----|------------|------|------|----------------|-------|
| P-1 | 008-BC6 | IN-LINE | 120°F | 3.0 | 14 | 1/25 | 3250 | 120V/1Ø | 1,2,3 |

NOTES:

- BASIS OF DESIGN: TACO
- PROVIDE A TACO MODEL 265-3 DIGITAL 7 DAY TIMER. COORDINATE TIMER PROGRAM WITH OWNER.
- PUMP TO BE ALL BRONZE OR STAINLESS STEEL CONSTRUCTION RATED FOR DOMESTIC POTABLE WATER SERVICE.

GENERAL PLUMBING NOTES

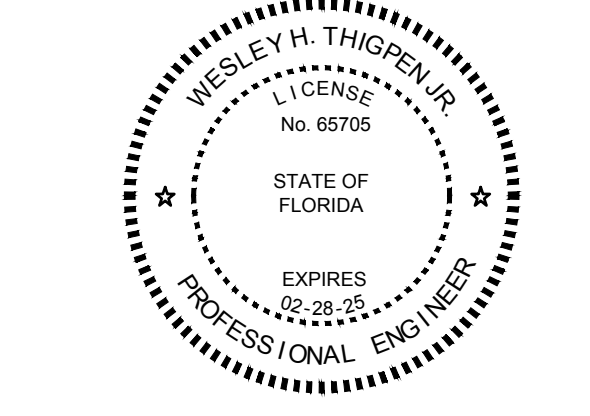
THESE GENERAL NOTES APPLY TO THE CONTRACTOR HOLDING THE GENERAL CONTRACT AS WELL AS ALL OTHER SUB CONTRACTORS AND AGENTS REQUIRED TO PERFORM WORK ON THIS PROJECT.

- TOMAHAWK ENGINEERING AND CONSULTING, INC. SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.
- THE CONTRACTOR ASSUMES RESPONSIBILITY FOR USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND/OR PROJECT CONDITIONS.
- THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER IN RESPONSIBLE CHARGE FOR THE GIVEN DISCIPLINE.
- CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.
- ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD.
- WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF \$750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE. PIPING SIZES, PIPING INVERTS, EQUIPMENT DIMENSIONS, MOUNTING HEIGHTS AND GENERAL ARRANGEMENT SHALL BE FIELD MEASURED AND VERIFIED PRIOR TO PROCUREMENT. ALL FITTINGS MAY NOT BE SHOWN. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS, TAPS FOR EXISTING SANITARY AND DOMESTIC PRESSURE PIPING, TRANSITIONS, FLEXIBLE CONNECTORS, VALVES, LABOR, OR ANY OTHER WORK INDICATED OR IMPLIED FOR A FULLY FUNCTIONAL SYSTEM.
- WHERE APPLICABLE AND AVAILABLE, ACTUAL EQUIPMENT DRAWINGS ARE USED FOR SYMBOLS ON PLAN VIEWS AND IN DETAILS. HOWEVER, SIMPLE BLOCK DIAGRAMS WITH ESTIMATED DIMENSIONS ARE ALSO USED FOR PLAN VIEWS. WHERE EQUIPMENT OR DEVICES ARE NOT LABELED, INDUSTRY STANDARD TERMINOLOGY AND SYMBOLOGY SHALL APPLY.
- THE CONTRACTOR SHALL MAKE HIS OR HERSELF AWARE OF THE OWNER'S SCHEDULE AND BE PREPARED TO WORK AT NIGHT OR ON WEEKENDS TO COMPLETE WORK SHOWN IN THESE DOCUMENTS. INTERRUPTIONS TO OWNER'S NORMAL WORK SCHEDULE SHALL NOT BE MADE WITHOUT WRITTEN INSTRUCTION TO DO SO FROM OWNER'S REPRESENTATIVE.
- FOR EQUIPMENT DEMOLISHED UNDER THIS CONTRACT, THE CONTRACTOR SHALL ALLOW THE OWNER FIRST REFUSAL OF DEMOLISHED EQUIPMENT. IF EQUIPMENT IS REFUSED, THE CONTRACTOR SHALL DISPOSE OF DEMOLISHED EQUIPMENT IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. IN ADDITION, FOR EQUIPMENT INDICATED TO BE DEMOLISHED, THE CONTRACTOR SHALL ASSUME THAT THIS ALSO REQUIRES DEMOLITION OF ALL ASSOCIATED APPURTENANCES INCLUDING ELECTRICAL CONNECTIONS, CONTROLS CONNECTIONS, ETC.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO PROVIDE THE OWNER WITH A COMPLETE, FULLY OPERATIONAL SYSTEM. WORK AND COMPONENTS NOT INDICATED BUT IMPLIED SHALL BE PROVIDED AND BE PART OF THE CONTRACT. THE CONTRACTOR SHALL GUARANTY ALL LABOR AND EQUIPMENT ASSOCIATED WITH PROJECT FOR A MINIMUM OF 1-YEAR.
- THE CONTRACTOR SHALL PROVIDE ALL CORES AND SAW CUTS FOR WALLS AND FLOORS AS REQUIRED TO INSTALL PIPING AND SERVICES AS INDICATED ON THESE DOCUMENTS. WHERE BUILDING SERVICES PENETRATE EXTERIOR WALL, SLERVE AND SEAL WATER AND WEATHER TIGHT. THE CONTRACTOR SHALL MAKE THEMSELVES FAMILIAR WITH THE BUILDING SITE PRIOR TO PROVIDING A BID. EXTRAS FOR NOT FULLY UNDERSTANDING THE EXISTING CONDITIONS OR THIS SET OF DOCUMENTS WILL NOT BE GIVEN.
- WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2017 AND ANY OTHER APPLICABLE STATE, LOCAL, AND/OR FEDERAL CODES AND LAWS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AND IS ALSO RESPONSIBLE FOR ALL ASSOCIATED FEES FOR SAID PERMITS AND INSPECTIONS.
- SOME PIPING MAY BE LOCATED IN WALLS THAT ARE NOT ACCESSIBLE. THE CONTRACTOR SHALL INCLUDE IN THEIR COSTS, THE CUTTING AND PATCHING OF WALLS TO ACCESS PIPING AS REQUIRED TO MAKE TIE-INS AS INDICATED HEREIN.
- THE CONTRACTOR IS RESPONSIBLE FOR THE ENTIRE SITE DURING CONSTRUCTION ACTIVITIES. AS SUCH, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIONS AS REQUIRED BY LAW OR OWNER REQUIREMENTS. ANY DAMAGE DONE BY THE CONTRACTOR OR SUB OF SAID CONTRACTOR SHALL BE REPAIRED AT NO COST TO THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL BUILDING CONSTRUCTION AND ALL EQUIPMENT LOCATED WITHIN THE BUILDING OR ON SITE PREMISES.
- WORK SHALL BE CARRIED OUT IN A NEAT WORKMAN LIKE MANNER. ALL CONSTRUCTION DEBRIS SHALL BE CLEANED UP AT THE END OF EVERY WORK DAY AND ALL CONSTRUCTION DUST SHALL BE VACUUMED UP AT THE END OF EVERY WORK DAY.
- UNLESS NOTED OTHERWISE, ALL MATERIALS, EQUIPMENT, PIPING, FIXTURES, WIRING, CABLING, AND OTHER DEVICES REQUIRED FOR COMPLETION OF PROJECT SHALL BE NEW.
- IN GENERAL, ITEMS SHOWN ON DRAWINGS LIGHTLY COMPARED TO OTHER COMPONENTS ARE EXISTING. WHERE ITEMS ARE NOT INDICATED EXPLICITLY TO BE DEMOLISHED, IT SHALL BE ASSUMED THAT THEY ARE TO REMAIN.
- (2) COPIES OF OPERATION AND MAINTENANCE MANUALS FOR MATERIALS AND EQUIPMENT SHALL BE PROVIDED TO THE OWNER AT PROJECT COMPLETION.
- THE CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR EXAMINING DRAWINGS (ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL AND CIVIL) AND ACTUAL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. EXTRAS WILL NOT BE GIVEN DUE TO FAILURE TO UNDERSTAND ALL CONDITIONS INVOLVED OR DISCREPANCIES BETWEEN ACTUAL DIMENSIONS AND CONDITIONS AND DIMENSIONS AND CONDITIONS INDICATED ON PLANS. WORK SHALL BE MODIFIED AND PROVIDED AS REQUIRED BY FIELD CONDITIONS AND THIS ADDITIONAL WORK SHALL BE CARRIED OUT AT NO COST TO THE OWNER.
- EQUIPMENT AND FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND STANDARD INDUSTRY PRACTICES. WHERE DISCREPANCIES BETWEEN CONTRACT DRAWINGS AND MANUFACTURER'S REQUIREMENTS ARISE, REQUEST CLARIFICATION FROM ENGINEER.
- PRIOR TO START-UP, PERFORM MANUFACTURER'S START-UP AND CHECKOUT PROCEDURES AND ATTACH FORMS TO OPERATION AND MAINTENANCE MANUALS.
- WHERE BUILDING SERVICES ARE DEMOLISHED, PATCH AND PAINT OPENINGS TO MATCH EXISTING CONSTRUCTION AND NEW FINISHES.
- PROVIDE ACCESS DOORS FOR EQUIPMENT, DAMPERS, ETC. LOCATED ABOVE GYPSUM CEILINGS OR WITHIN WALLS REQUIRING ACCESS. DOOR SIZES SHALL SUIT EQUIPMENT SERVED.
- TRAP PRIMERS TO BE PROVIDED ON ALL FLOOR DRAINS AND WHERE INDICATED ON FLOOR SINKS.
- REFER TO DETAILS AND VENDOR DRAWINGS FOR FURTHER INFORMATION REGARDING INSTALLATION AND CONNECTION OF VENDOR PROVIDED EQUIPMENT. CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL, LEAK FREE INSTALLATION.
- THE PLUMBING CONTRACTOR SHALL PROCURE THE SERVICES OF A T&B AGENT TO BALANCE DOMESTIC HOT WATER RETURN BALANCING VALVES TO GPM VALUES INDICATED ON PLAN VIEWS.



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 PE# 62829
 WESLEY THIGPEN, JR.
 PE# 65705



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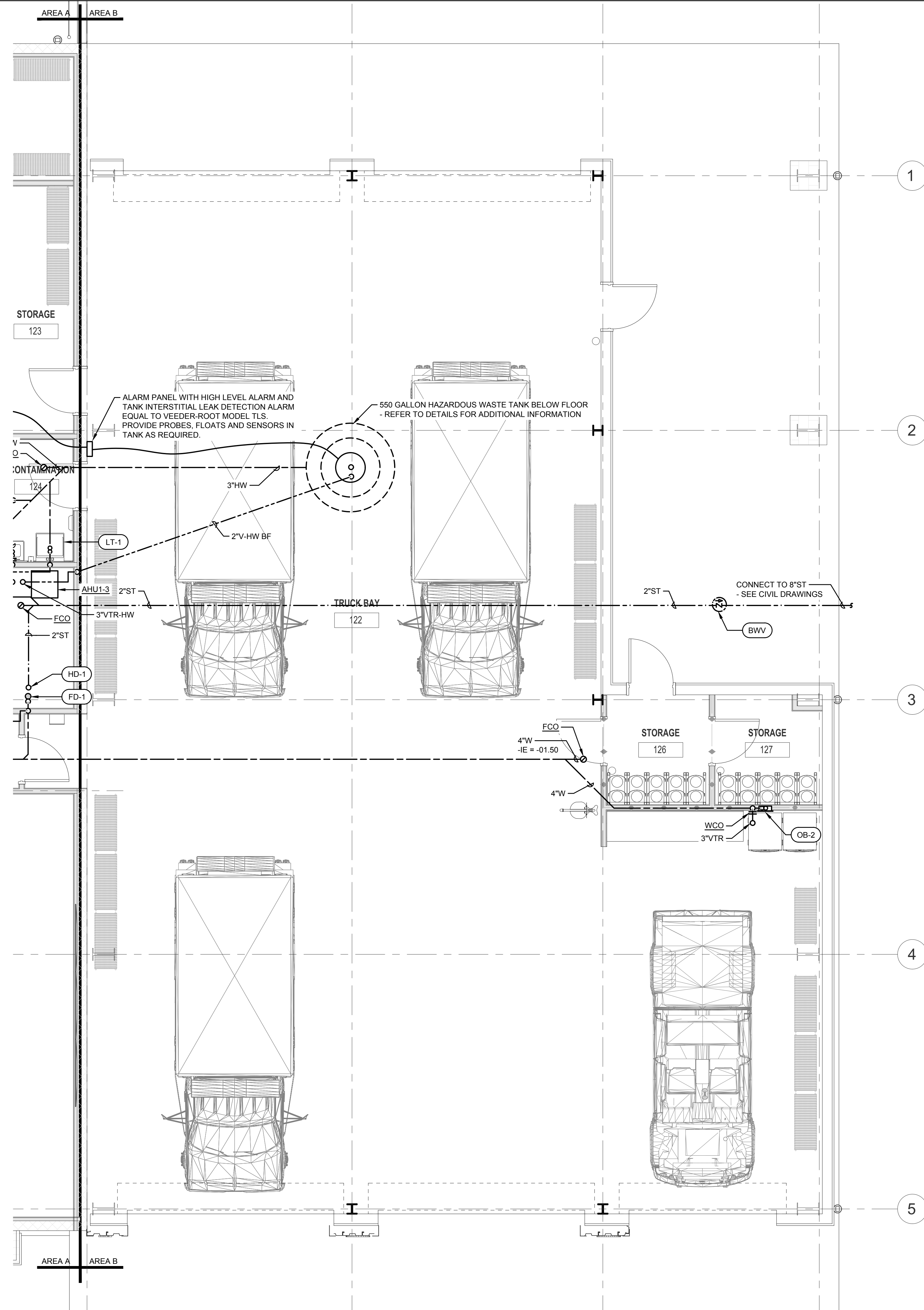
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LEGEND, NOTES & SCHEDULES - PLUMBING

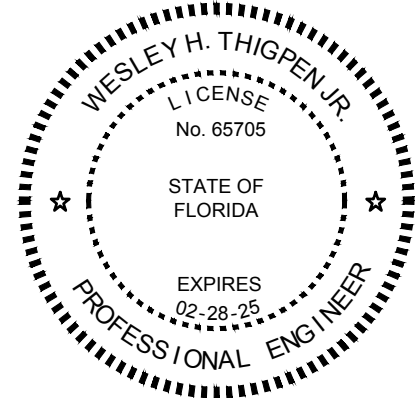
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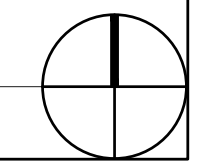
FLOOR PLAN - AREA B -
 GRAVITY PLUMBING

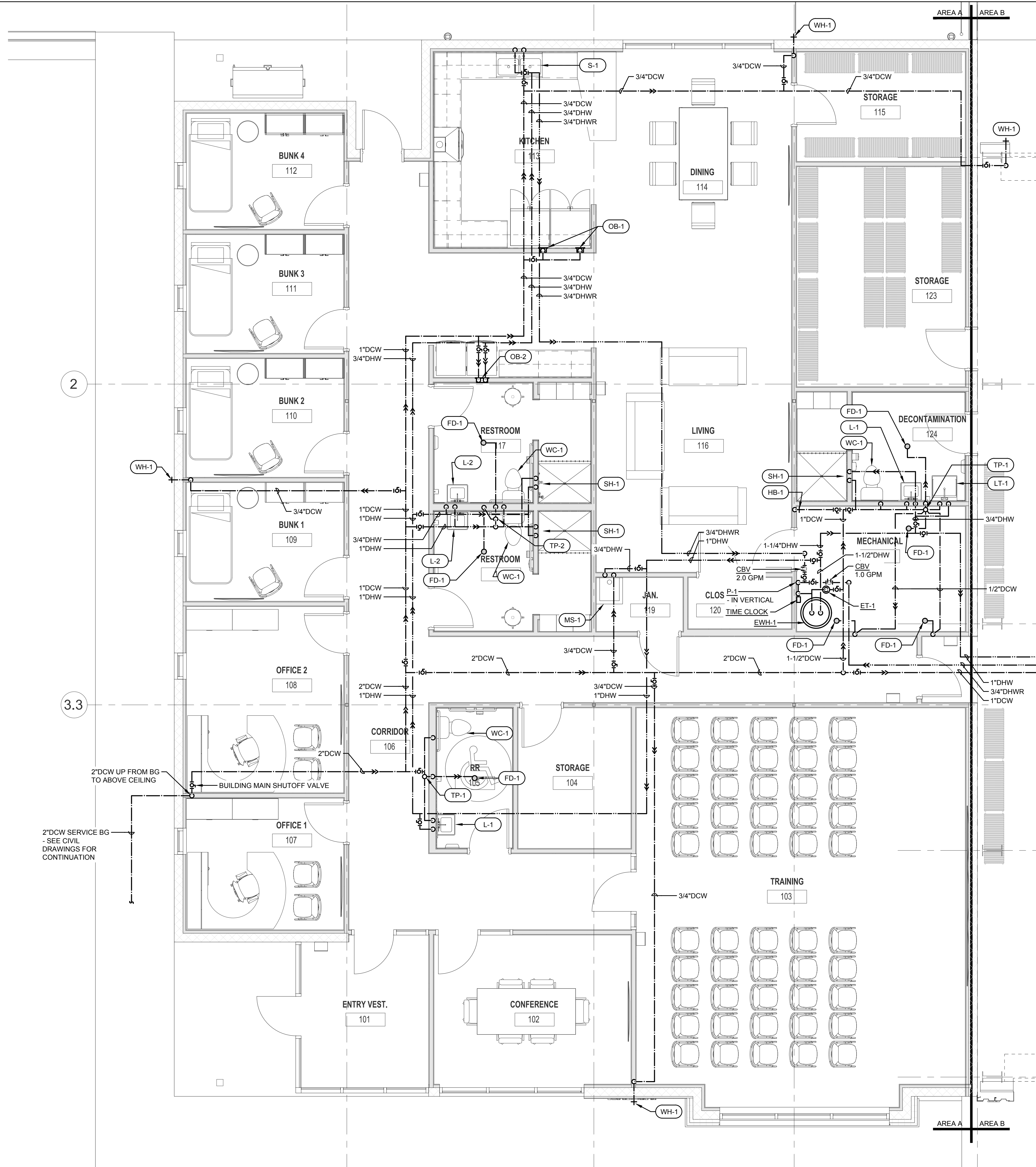
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P1.2

1 FLOOR PLAN - AREA B - GRAVITY PLUMBING

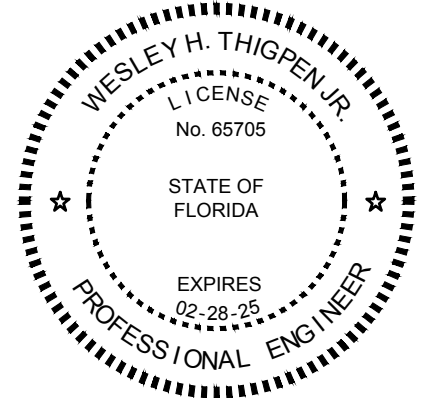
P1.2 1/4" = 1'-0"





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FLOOR PLAN - AREA A -
 PRESSURE PLUMBING

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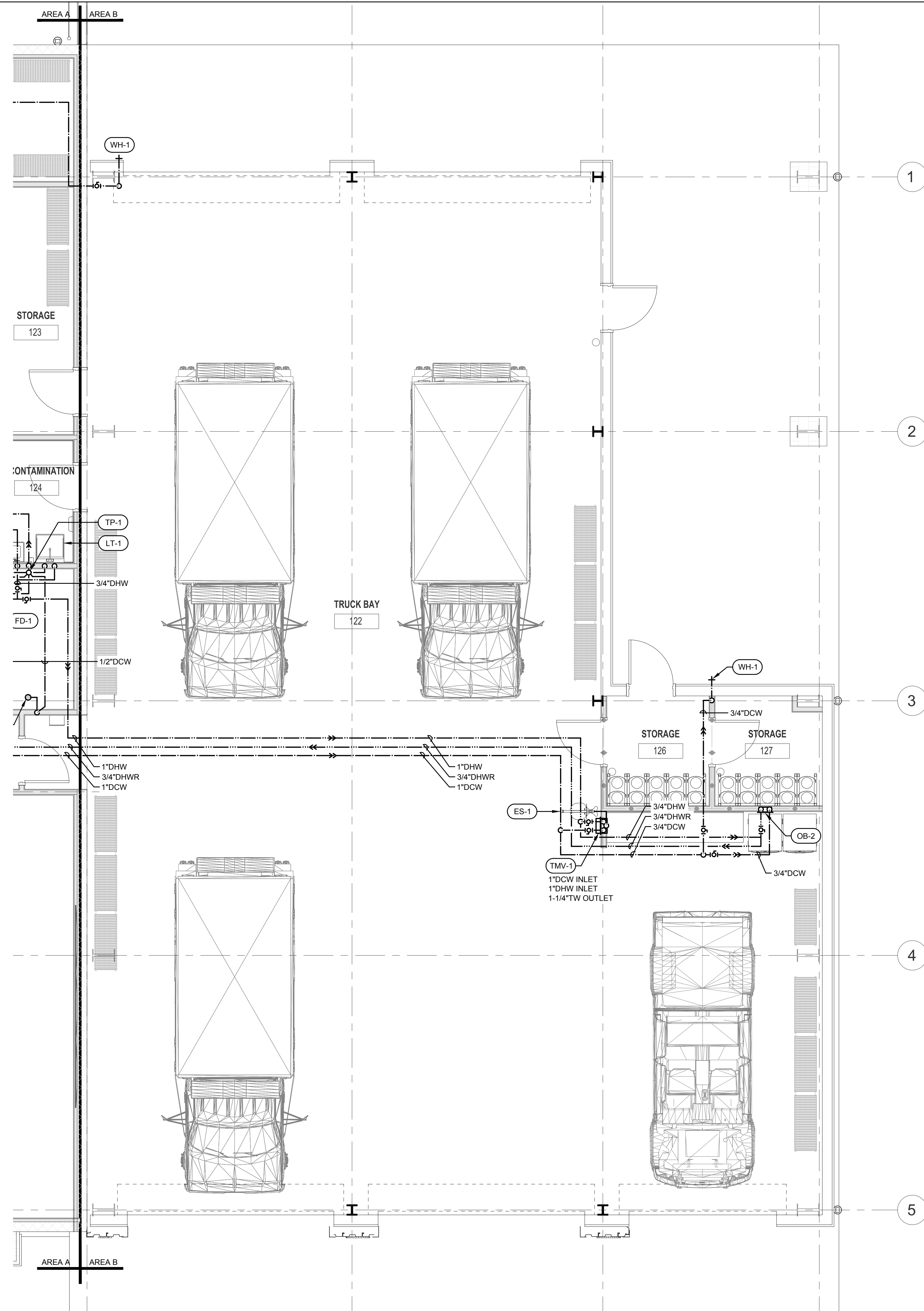
P2.1

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1 FLOOR PLAN - AREA A - PRESSURE PLUMBING

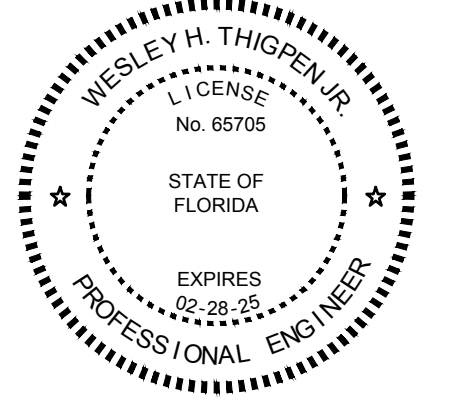
P2.1 1/4" = 1'-0"

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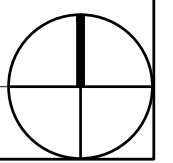
FLOOR PLAN - AREA B -
 PRESSURE PLUMBING

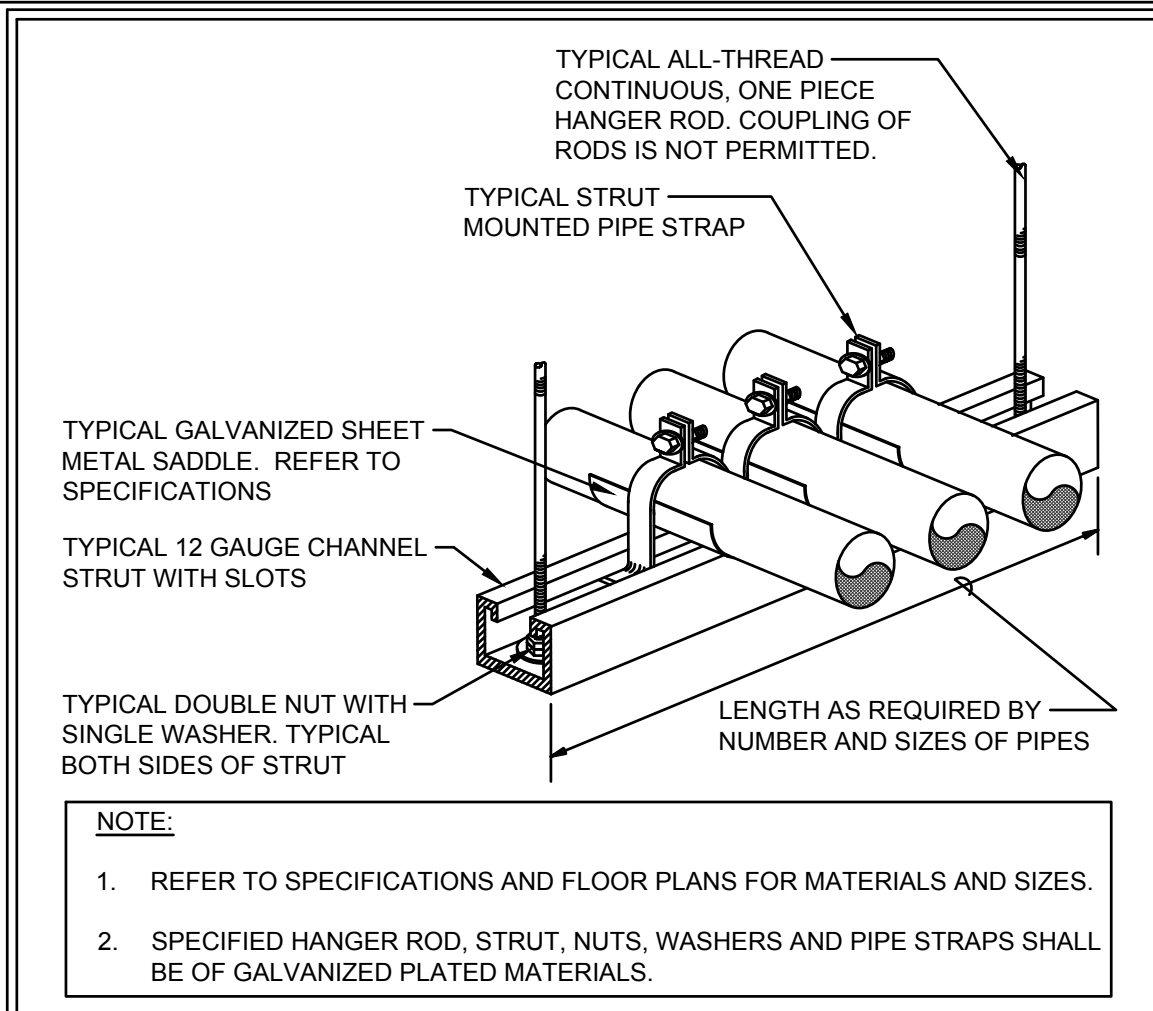
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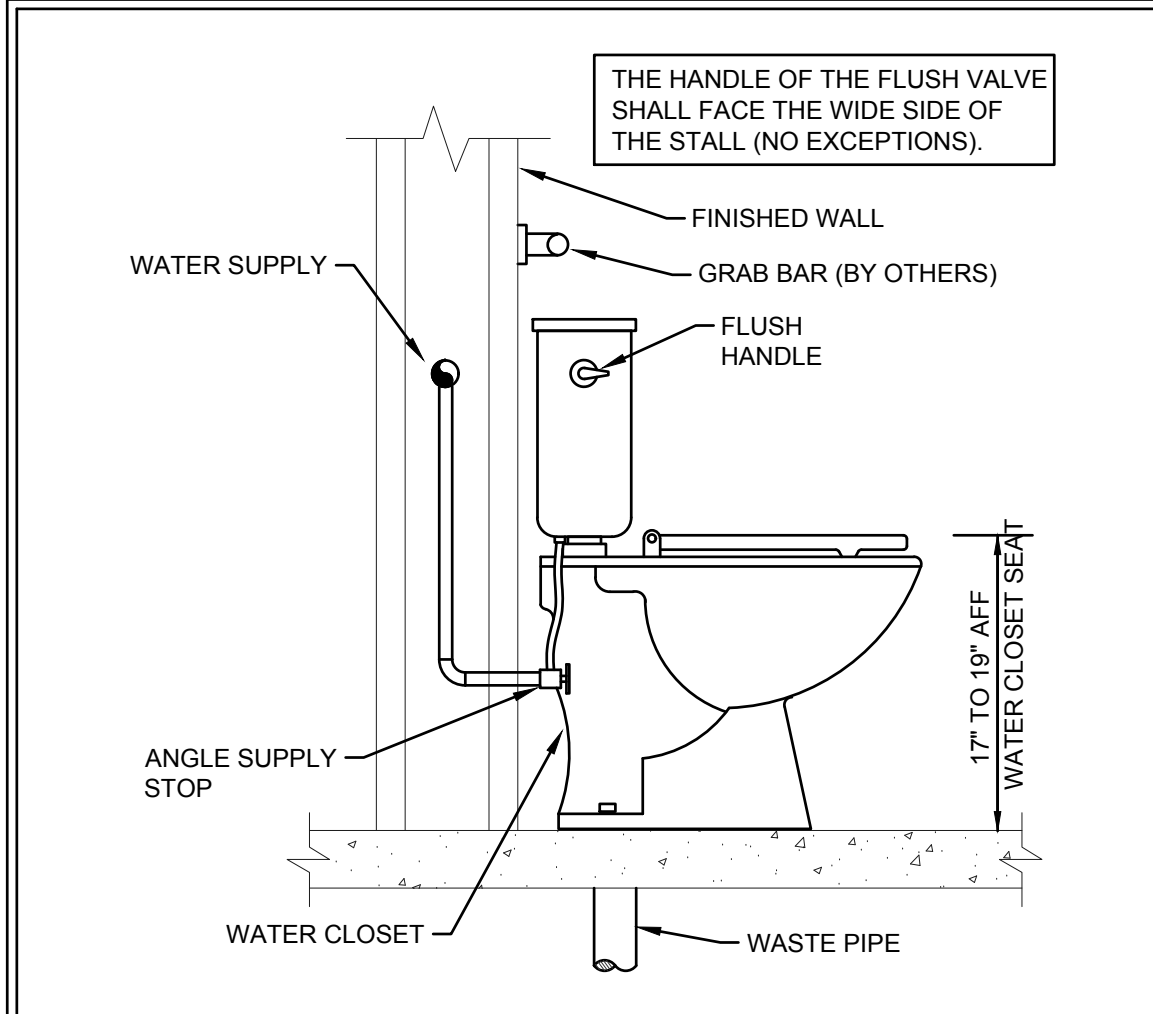
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1 FLOOR PLAN - AREA B - PRESSURE PLUMBING
 P2.2 1/4" = 1'-0"

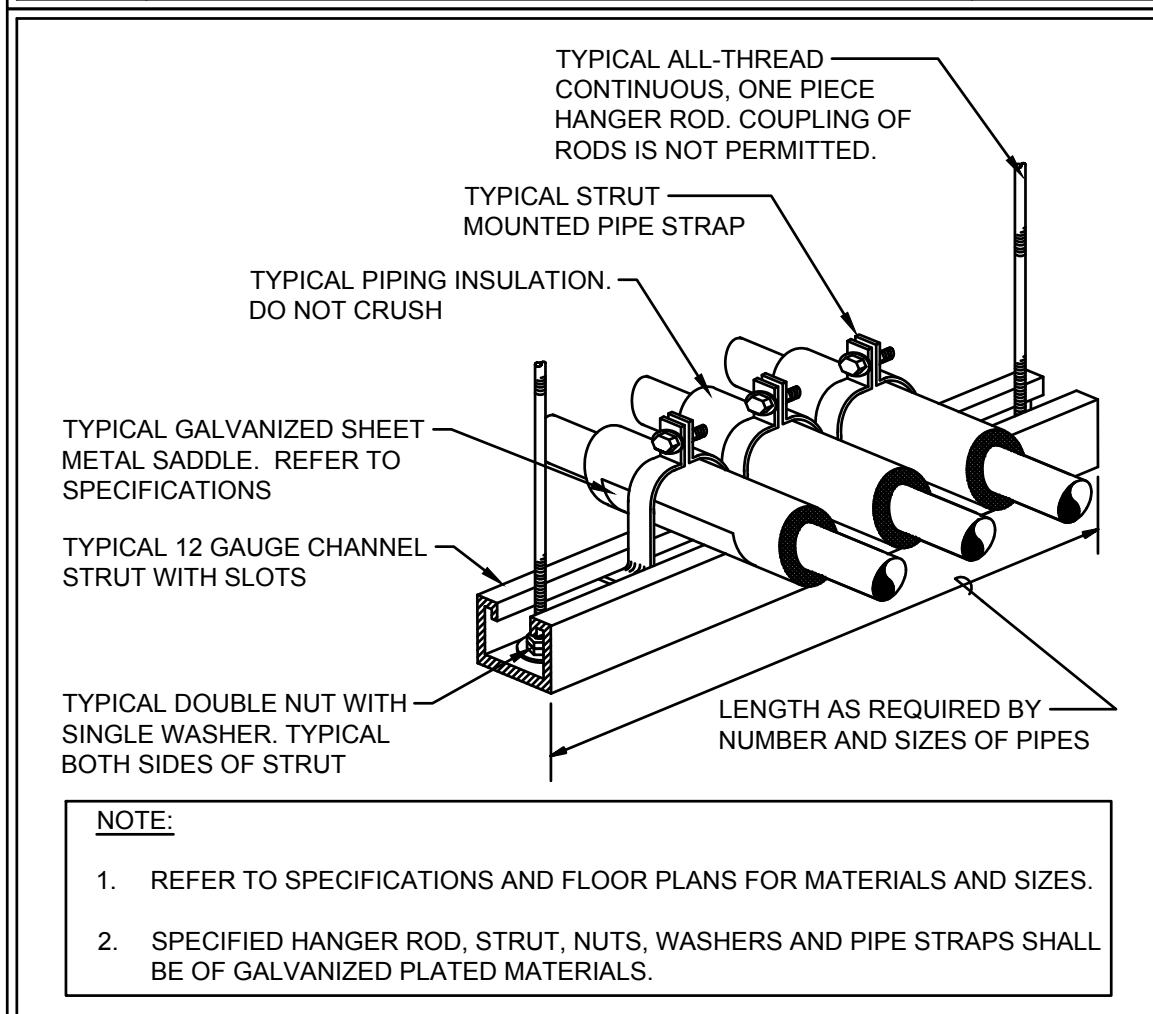




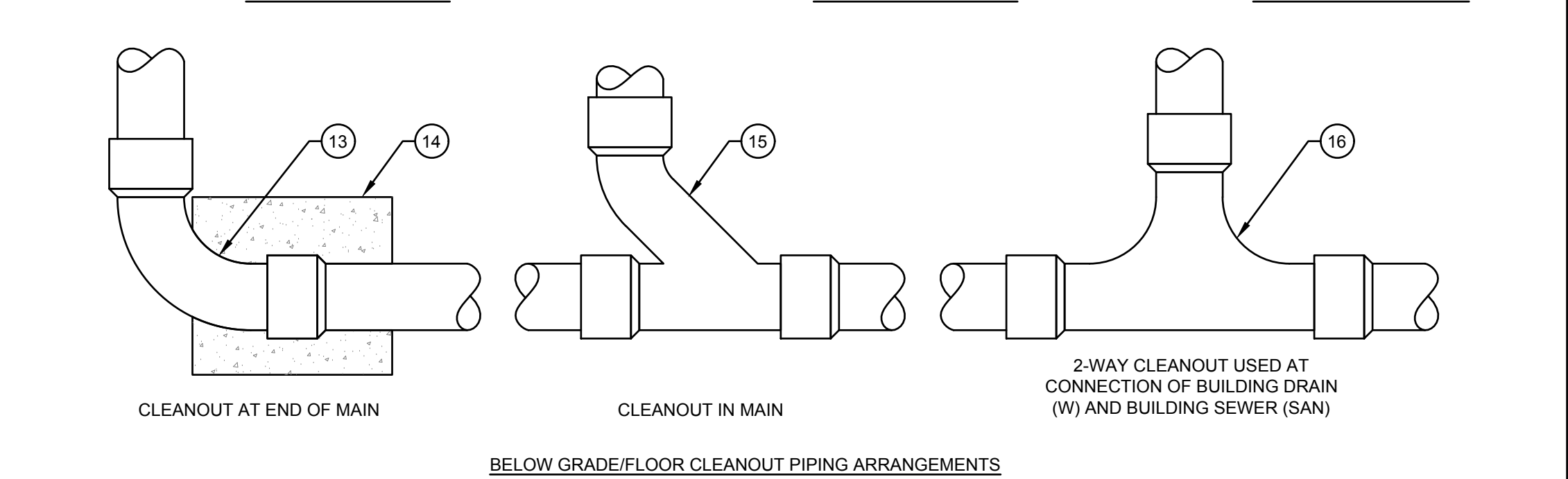
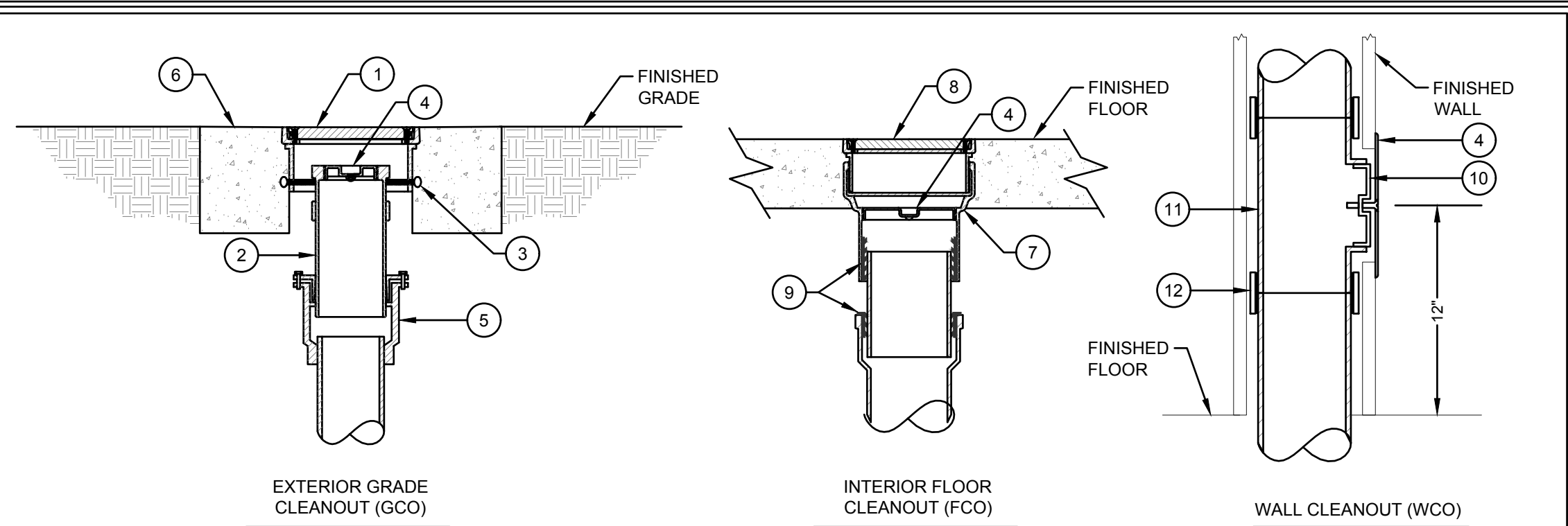
6 NON INSULATED PIPE TRAPEZE HANGER DETAIL SCALE: NONE



7 WATER CLOSET DETAIL SCALE: NONE



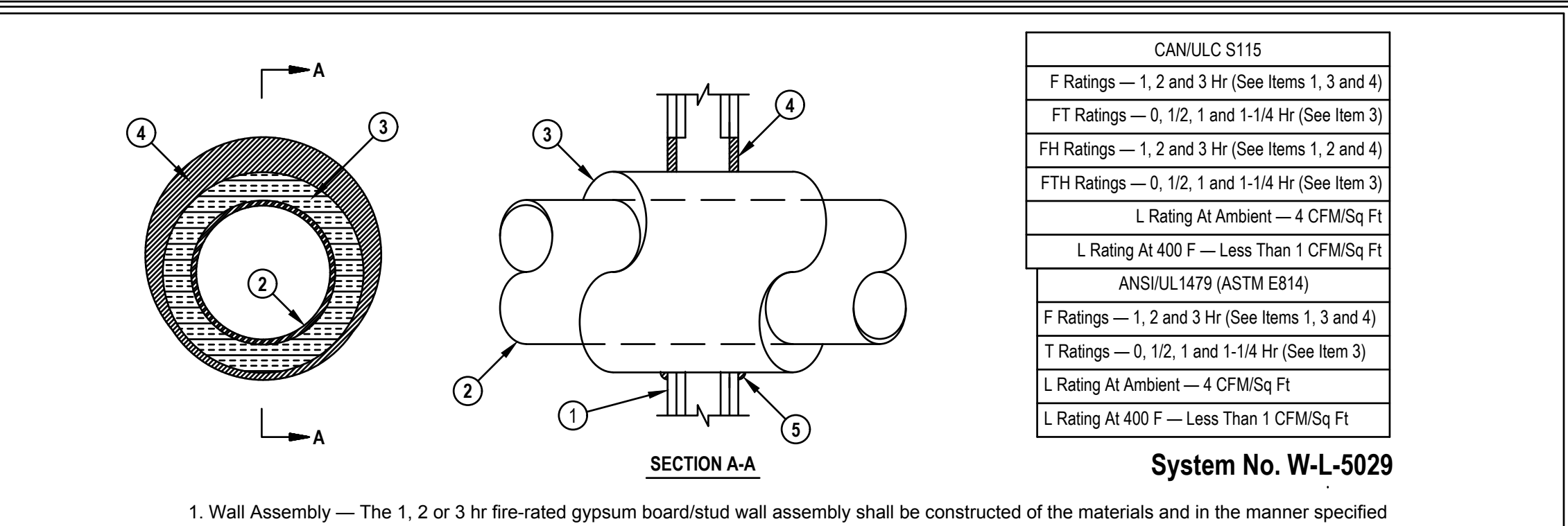
8 INSULATED PIPE TRAPEZE HANGER DETAIL SCALE: NONE



DETAIL KEY NOTES:

| | | | |
|---|----------------------------------------------------------------------------------------------------|----|------------------------------------------------------|
| 1 | CAST IRON HOUSING WITH NICKEL BRONZE, ROUND, SECURED, SCORIATED LIGHT-DUTY COVER AND THUMB SCREWS. | 9 | PUSH-ON NEOPRENE RUBBER COMPRESSION GASKET. |
| 2 | CAST IRON CLEANOUT HOUSING. | 10 | STAINLESS STEEL ROUND WALL ACCESS COVER. |
| 3 | ADJUSTABLE THUMB SCREWS. | 11 | CLEANOUT TEE. |
| 4 | TAPERED THREAD, RECESSED HEAD, BRONZE CLEANOUT PLUG. | 12 | NO-HUB COUPLING (FOR ABOVE GROUND APPLICATION ONLY). |
| 5 | EXPANSION JOINT. | 13 | LONG SWEEP ELBOW. |
| 6 | 18"x18" SQUARE CONCRETE PAD A MINIMUM OF 4" THICK. | 14 | 12" x 12" x 12" CONCRETE THRUST BLOCK. |
| 7 | 2 PIECE CAST IRON CLEANOUT WITH ADJUSTABLE HEAD. | 15 | COMBINATION WYE AND EIGHTH BEND FITTING. |
| 8 | NICKEL BRONZE, ROUND, SECURED, SCORIATED LIGHT-DUTY COVER. | 16 | TWO-WAY CLEANOUT FITTING. |

3 CLEANOUT DETAILS SCALE: NONE



System No. W-L-5029

1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm). The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).

D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).

3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm). See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

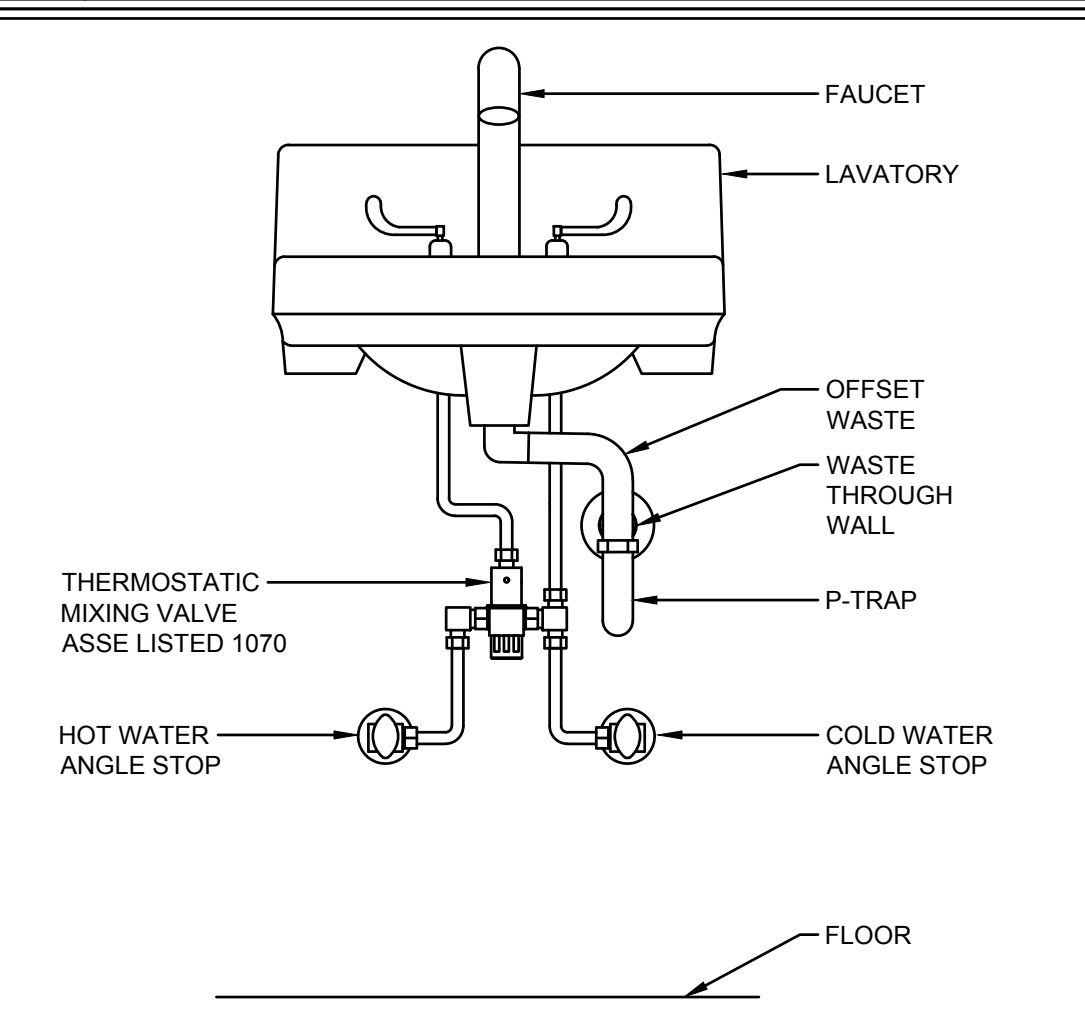
3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above.

4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

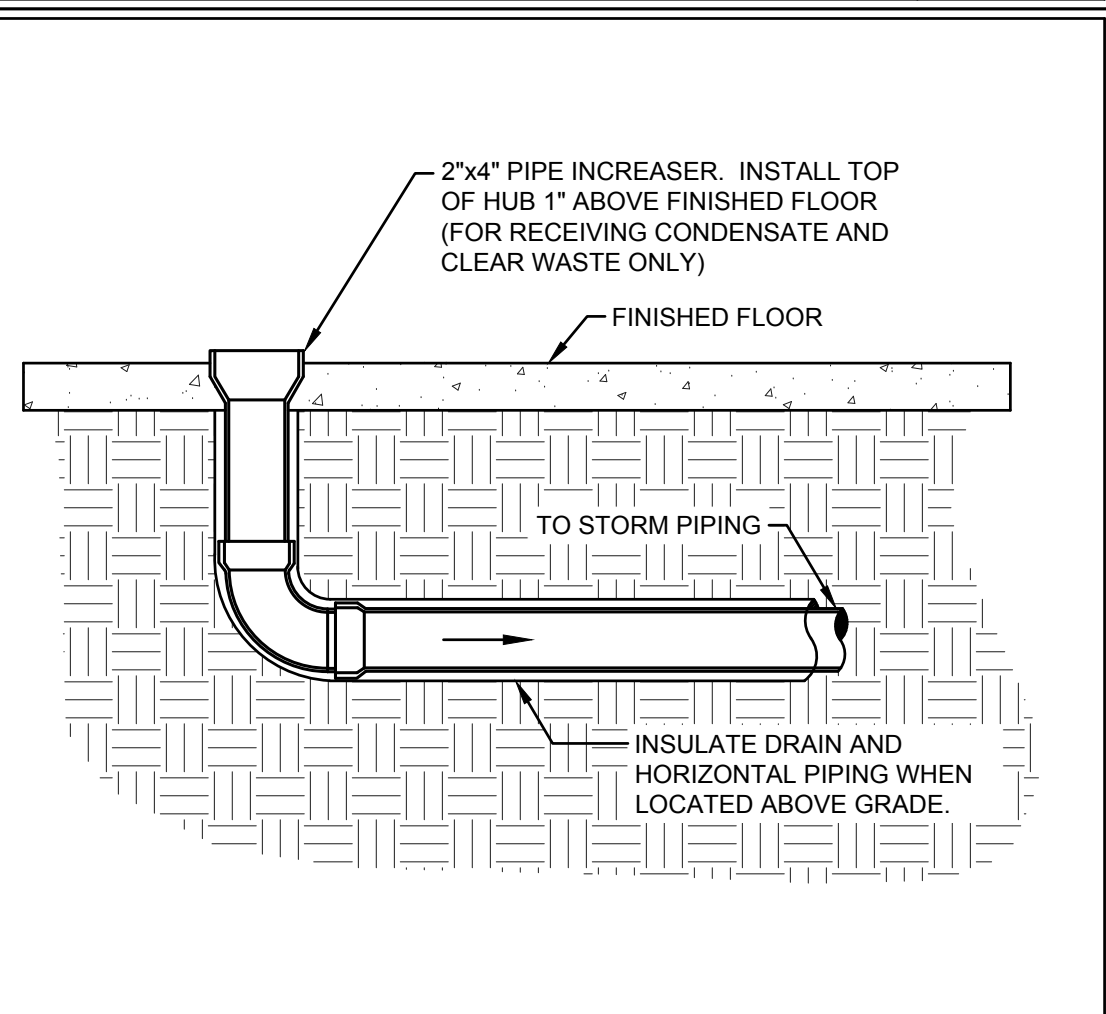
*Bearing the UL Classification Mark

HILTI
Hilti Firestop Systems

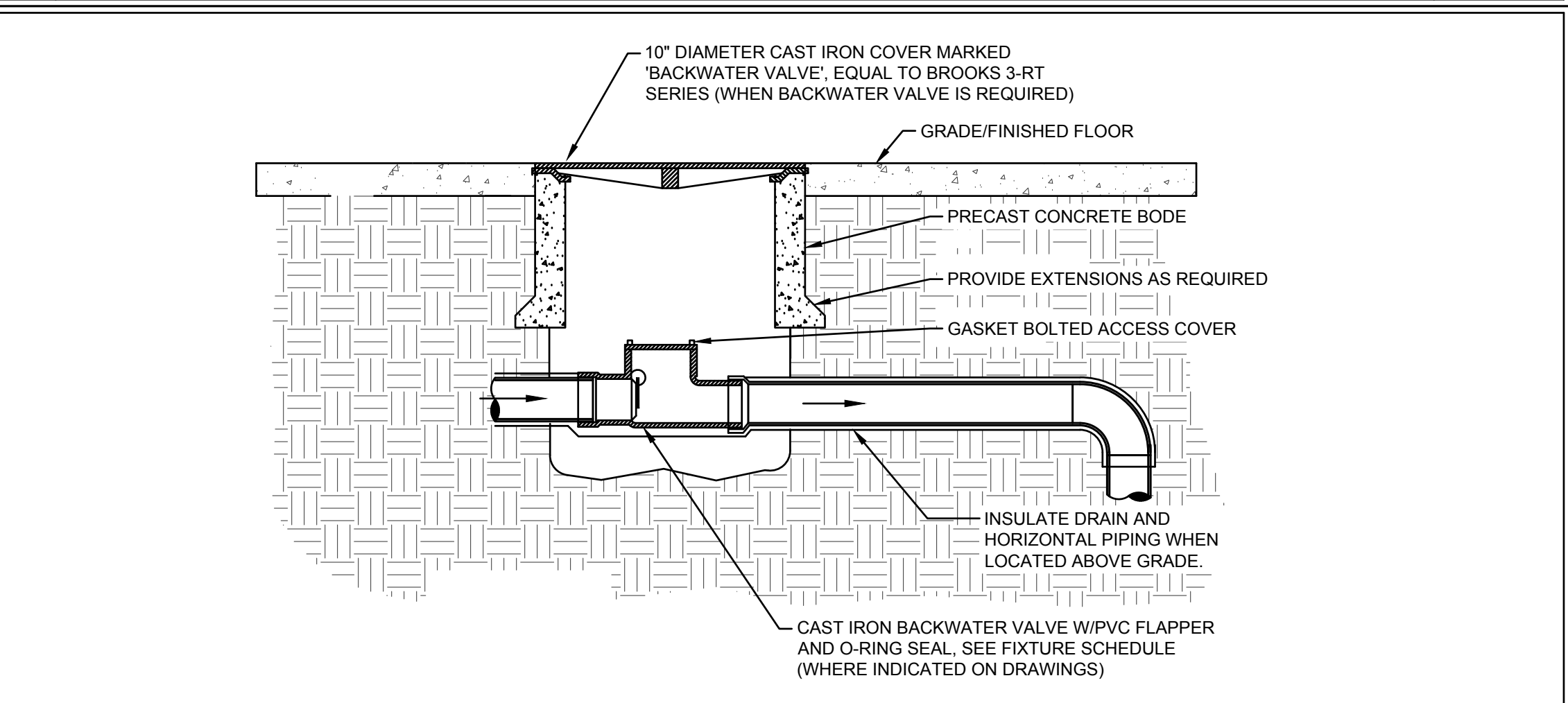
1 PIPE PENETRATION DETAIL SCALE: NONE



5 LAVATORY WITH MIXING VALVE DETAIL SCALE: NONE



4 HUB DRAIN DETAIL SCALE: NONE

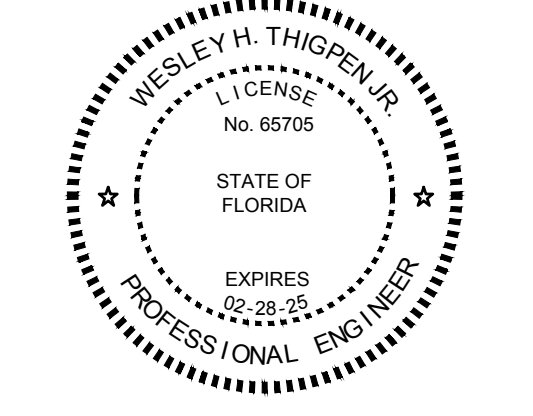


2 BACKWATER VALVE (BWV) DETAIL SCALE: NONE



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PE#: 62829
WESLEY THIGPEN, JR.
PE#: 65705



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Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CANULC-S115



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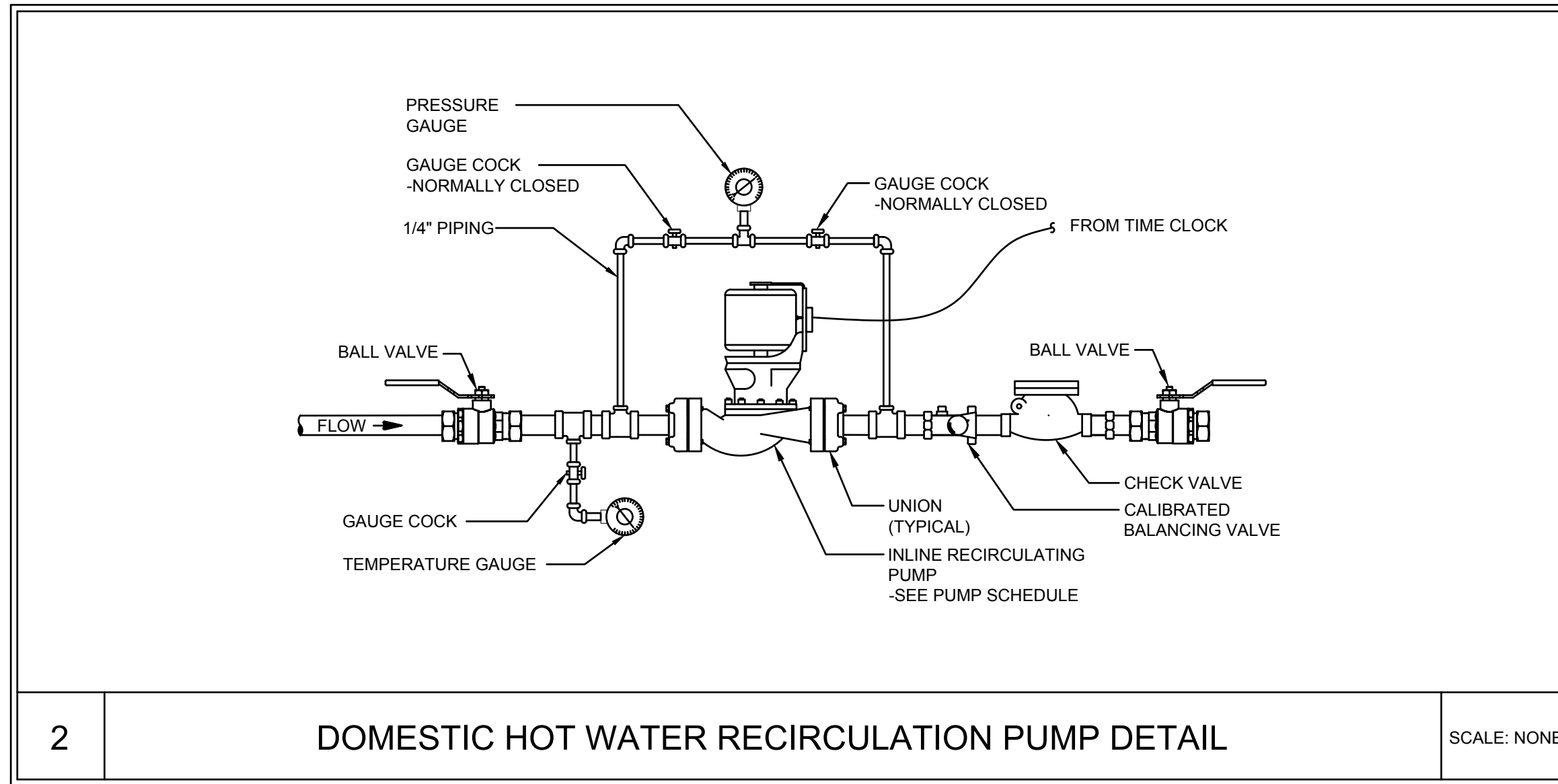
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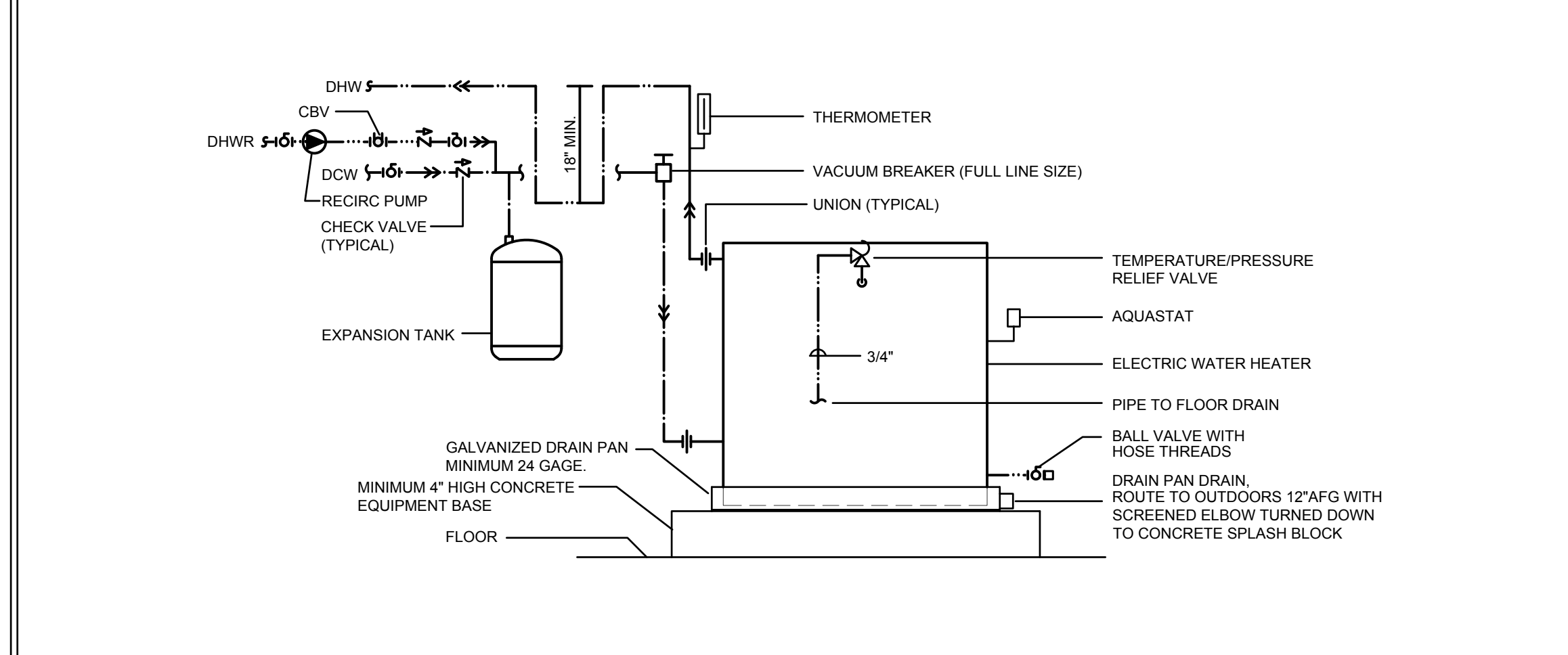
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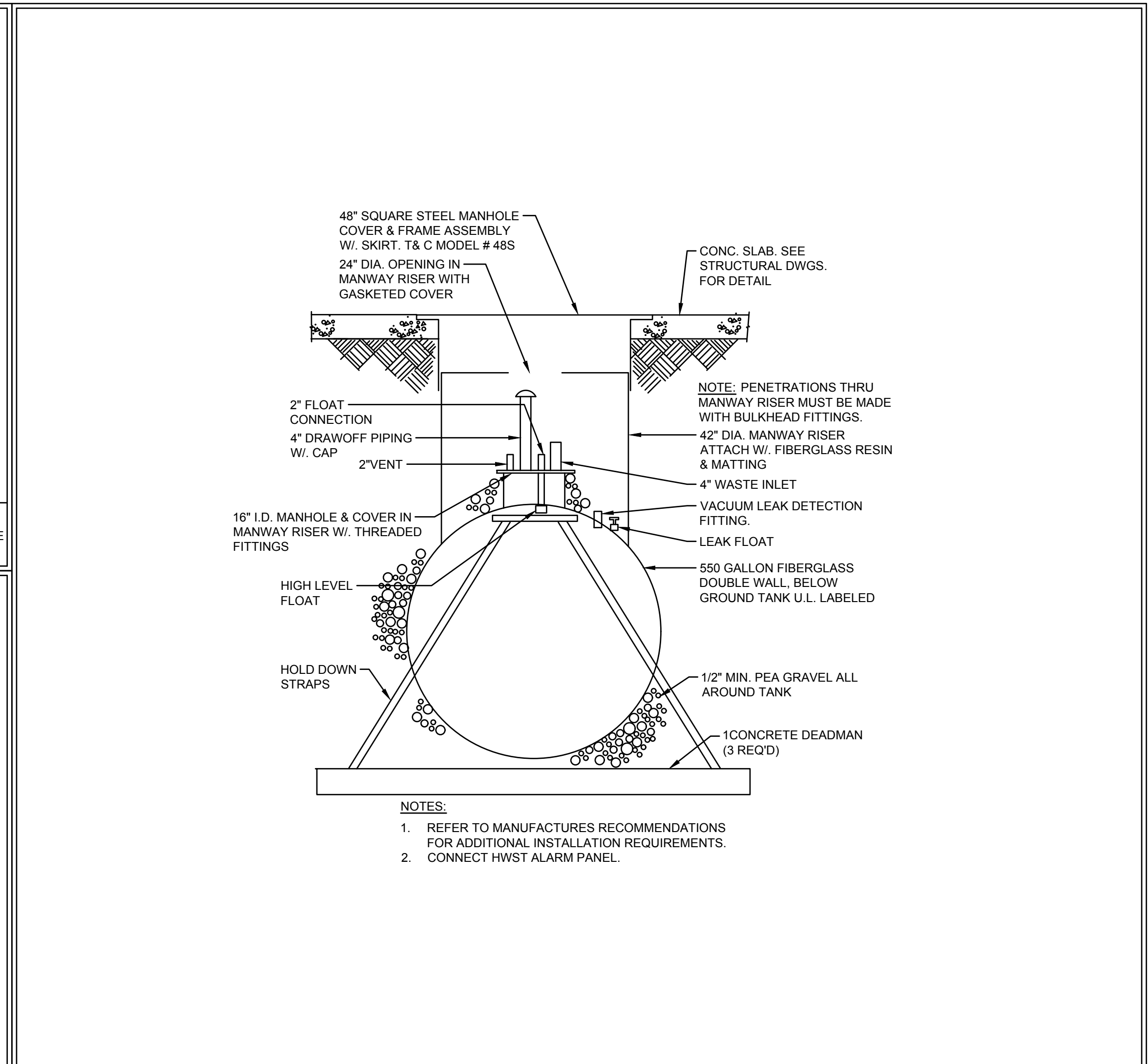
P5.1



2 DOMESTIC HOT WATER RECIRCULATION PUMP DETAIL SCALE: NONE



3 ELECTRIC WATER HEATER DETAIL SCALE: NONE

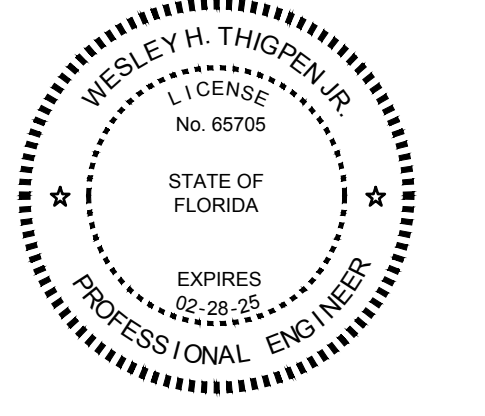


1 BELOW GRADE HAZARDOUS WASTE STORAGE TANK DETAIL SCALE: NONE

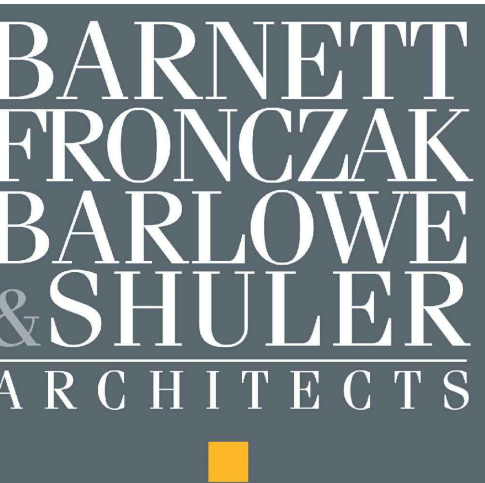


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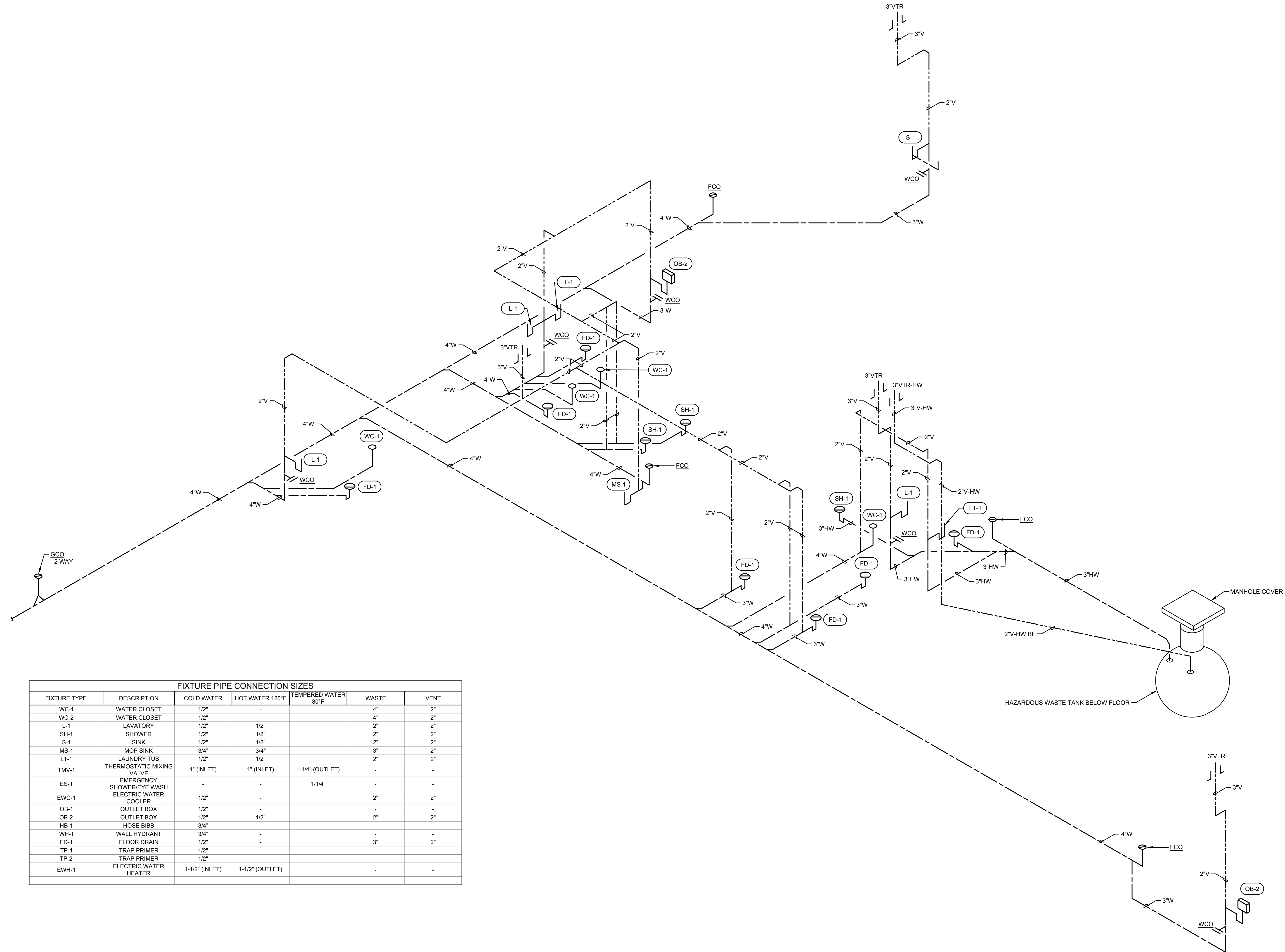
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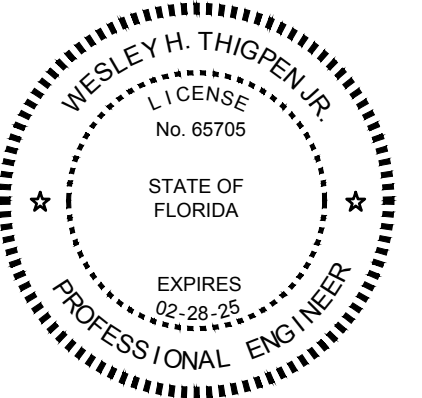


| FIXTURE PIPE CONNECTION SIZES | | | | | | |
|-------------------------------|---------------------------|----------------|-----------------|---------------------|-------|------|
| FIXTURE TYPE | DESCRIPTION | COLD WATER | HOT WATER 120°F | TEMPERED WATER 80°F | WASTE | VENT |
| WC-1 | WATER CLOSET | 1/2" | - | - | 4" | 2" |
| WC-2 | WATER CLOSET | 1/2" | - | - | 4" | 2" |
| L-1 | LAVATORY | 1/2" | 1/2" | - | 2" | 2" |
| SH-1 | SHOWER | 1/2" | 1/2" | - | 2" | 2" |
| S-1 | SINK | 1/2" | 1/2" | - | 2" | 2" |
| MS-1 | MOP SINK | 3/4" | 3/4" | - | 3" | 2" |
| LT-1 | LAUNDRY TUB | 1/2" | 1/2" | - | 2" | 2" |
| TMV-1 | THERMOSTATIC MIXING VALVE | 1" (INLET) | 1" (INLET) | 1-1/4" (OUTLET) | - | - |
| ES-1 | EMERGENCY SHOWER/EYE WASH | - | - | 1-1/4" | - | - |
| EWC-1 | ELECTRIC WATER COOLER | 1/2" | - | - | 2" | 2" |
| OB-1 | OUTLET BOX | 1/2" | - | - | - | - |
| OB-2 | OUTLET BOX | 1/2" | 1/2" | - | 2" | 2" |
| HB-1 | HOSE BIBB | 3/4" | - | - | - | - |
| WH-1 | WALL HYDRANT | 3/4" | - | - | - | - |
| FD-1 | FLOOR DRAIN | 1/2" | - | - | 3" | 2" |
| TP-1 | TRAP PRIMER | 1/2" | - | - | - | - |
| TP-2 | TRAP PRIMER | 1/2" | - | - | - | - |
| EW-1 | ELECTRIC WATER HEATER | 1-1/2" (INLET) | 1-1/2" (OUTLET) | - | - | - |



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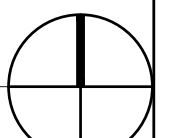
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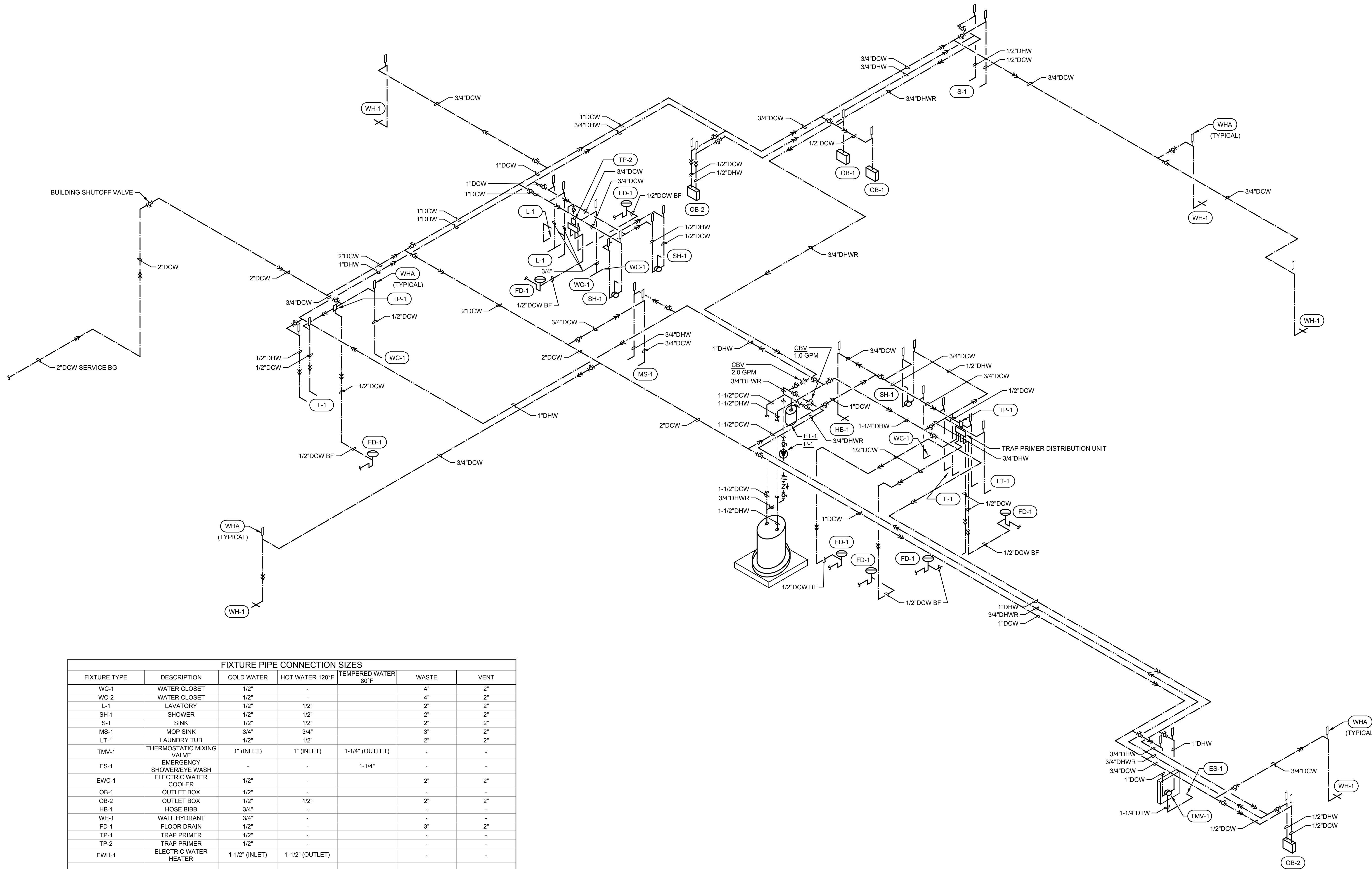
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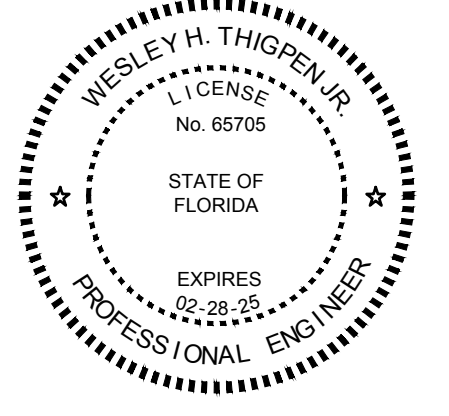


| FIXTURE PIPE CONNECTION SIZES | | | | | | |
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| FIXTURE TYPE | DESCRIPTION | COLD WATER | HOT WATER 120°F | TEMPERED WATER 80°F | WASTE | VENT |
| WC-1 | WATER CLOSET | 1/2" | - | - | 4" | 2" |
| WC-2 | WATER CLOSET | 1/2" | - | - | 4" | 2" |
| L-1 | LAVATORY | 1/2" | 1/2" | - | 2" | 2" |
| SH-1 | SHOWER | 1/2" | 1/2" | - | 2" | 2" |
| S-1 | SINK | 1/2" | 1/2" | - | 2" | 2" |
| MS-1 | MOP SINK | 3/4" | 3/4" | - | 3" | 2" |
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| EWC-1 | ELECTRIC WATER COOLER | 1/2" | - | - | 2" | 2" |
| OB-1 | OUTLET BOX | 1/2" | - | - | - | - |
| OB-2 | OUTLET BOX | 1/2" | 1/2" | - | 2" | 2" |
| HB-1 | HOSE BIBB | 3/4" | - | - | - | - |
| WH-1 | WALL HYDRANT | 3/4" | - | - | - | - |
| FD-1 | FLOOR DRAIN | 1/2" | - | - | 3" | 2" |
| TP-1 | TRAP PRIMER | 1/2" | - | - | - | - |
| TP-2 | TRAP PRIMER | 1/2" | - | - | - | - |
| EWH-1 | ELECTRIC WATER HEATER | 1-1/2" (INLET) | 1-1/2" (OUTLET) | - | - | - |



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P6.2

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1 ISOMETRIC - PRESSURE PLUMBING
 P6.2 NO SCALE

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