

# PETTIGREW STATE PARK

## CAMPGROUND AND OFFICE IMPROVEMENTS

### CRESWELL, NORTH CAROLINA

SCO ID#: 20-22411-02A

DEPARTMENT OF NATURAL AND CULTURAL RESOURCES  
DIVISION OF PARKS & RECREATION

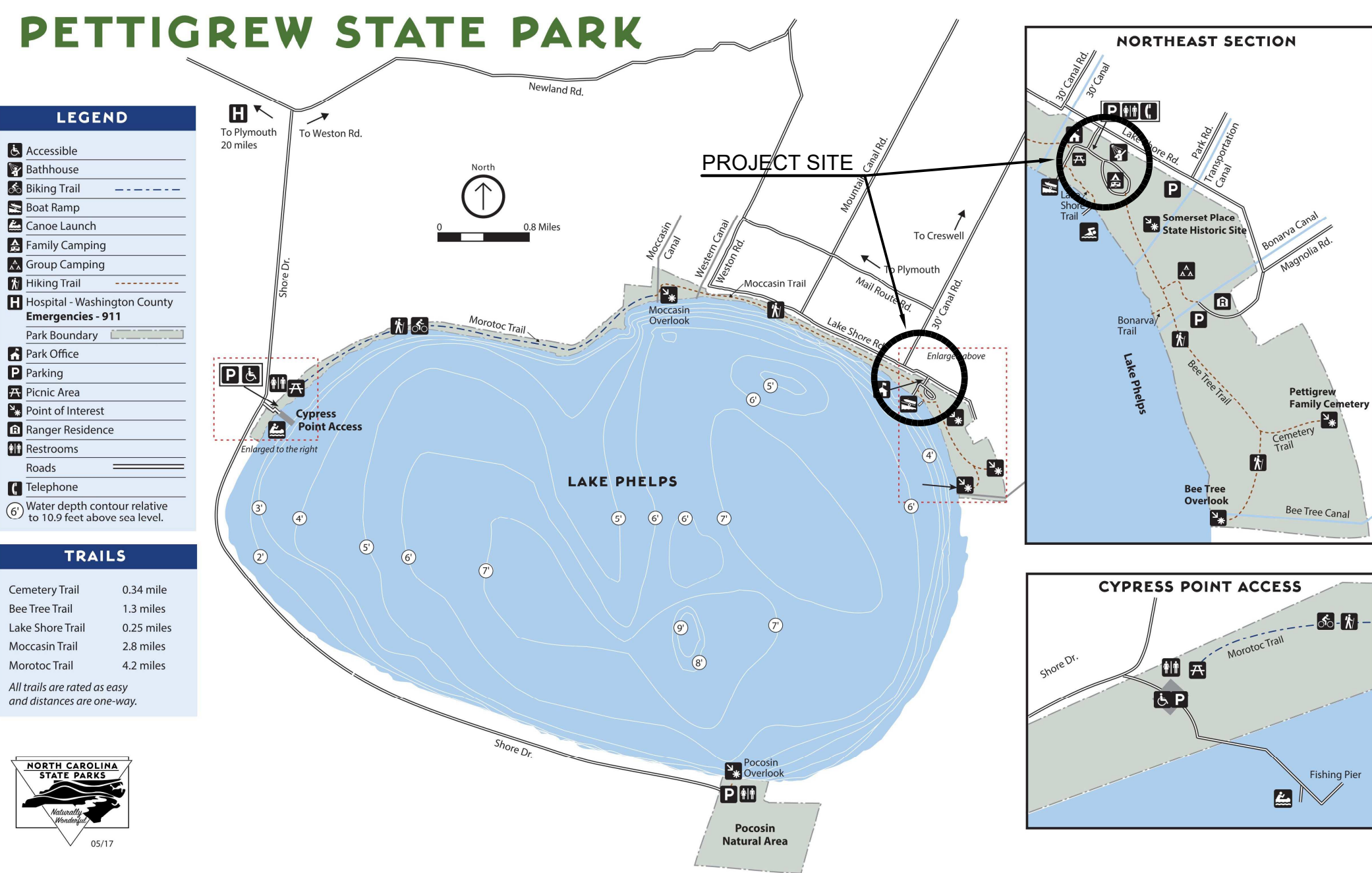
**SITE/CIVIL**  
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VICINITY MAP  
NOT TO SCALE

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7/27/2025  
7/27/2025

REVISIONS

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**FINCH**  
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engineering  
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SCO ID#: 20-22411-02A Construction Documents For Bid

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

DRAWN BY: MVB  
CHECKED BY: GMF  
PROJ. NO. 20061  
DATE 7/27/2025  
SHEET 00 OF 00



System No. W-L-S1000  
May 19, 2005

**F Ratings — 1 and 2 Hr (See Item 1)**

**T Ratings — 1/4, 3/4, 1, 1-1/2 and 1-3/4 Hr (See Items 2 and 3)**

**1. Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 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 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.
- B. Gypsum Board\*** — Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max area of opening is 65-1/4 sq. in. (421 cm<sup>2</sup>) with max dimension of 14-1/2 in. (368 mm).

**The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly.**

**2. Through Penetrants** — A max of four pipes, conduits or tubing shall be installed within the opening. The space between pipes, conduits or tubing shall be min 1/2 in. (13 mm) to max 1-5/16 in. (33 mm). The space between pipes, conduits or tubing and periphery of opening shall be min 1-3/16 in. (30 mm) for uninsulated copper tubes and copper pipes (Items 2C and 2D) and 0 in. (0 mm, point contact) for insulated copper tubes and copper pipes and uninsulated steel pipes and conduit (Item 2B). The space between pipes, conduits or tubing and periphery of opening shall be max 1-5/16 in. (33 mm). Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

- A. Steel Pipe** — Nom 2 in. (51 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
- B. Conduit** — Nom 2 in. (51 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.
- C. Copper Tubing** — Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
- D. Copper Pipe** — Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.

**When uninsulated steel pipe or conduit is used, T Rating is 3/4 hr and 1-1/2 hr for 1 and 2 hr rated assemblies, respectively.**

**When uninsulated copper tubing or pipe is used, T Rating is 1/4 hr for both 1 and 2 hr rated assemblies.**

**3A. Pipe Covering\*** — (Optional) — Nom 1 in. (25 mm) hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m<sup>3</sup>) 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.

**See Pipe and Equipment covering — Materials (BRGU)** category in the Building Materials Directory for 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.

**When pipe covering is used on all through penetrants, T Rating is 1 hr and 1-3/4 hr for 1 and 2 hr fire rated assemblies, respectively.**

**3B. Tube Insulation** — **Plastics#** — (Optional) — Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.

**See Plastics (QMFZ)** category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.

**When tube insulation is used on all through penetrants, T Rating is 3/4 hr and 1-1/2 hr for 1 and 2 hr fire rated assemblies, respectively.**

**4. Fill, Void or Cavity Material\*** — **Caulk or Sealant** — Min 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness of fill material, for 1 or 2 hr walls, respectively, applied within the annulus, flush with both surfaces of wall. At point contact locations, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the wall/pipe and wall/pipe insulation interface on both surfaces of wall.

**3M COMPANY** — CP 25WB+, IC 15WB+ caulk or FB-3000 WT sealant

**5. Fill, Void or Cavity Materials\*** — **Wrap Strip** — (Not Shown) — Min one layer of 2 in. (51 mm) wide, nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, required only when tube insulation (Item 3B) is used in 2 hr rated assemblies. Wrap strip tightly wrapped around tube insulation (foil side exposed) within the opening on both sides of the wall, flush with both surfaces of the wall assembly.

**3M COMPANY** — FS-195+

**System No. W-J-1007**  
November 26, 1997

**F Rating — 2 Hr**

**T Ratings — 0, 1/4 and 2 Hr (See Item 3C)**

**SECTION A-A**

1. **Wall Assembly** — Min 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks\***. **Max diam of opening is 8 in.**

See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The annular space between pipe, conduit or tubing and periphery of opening shall be as shown in the table below. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** — Nom 1 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. **Conduit** — Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.

C. **Copper Tubing** — Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.

3. **Firestop System** — The hourly F and T Rating for the firestop systems are dependent upon the type and size of pipe, annular space, fill material thickness and fill material type as described in the table below. When the annular space in the table shows a range of distances, the penetrating item may be installed either concentrically or eccentrically within the firestop system. The firestop systems shall consist of the following:

A. **Steel Sleeve or Wire Mesh** — No. 8 steel wire mesh having a min 1 in. lap along the longitudinal seam. Length of sleeve to be 1/4 to 1/2 in. less than overall thickness of wall such that, when installed in circular opening, the ends of the sleeve are recessed 1/8 to 1/4 in. from each surface of the wall. Sleeve may also be formed of min 0.034 in. thick (20 MSG) galvanized sheet steel.

B. **Packing Material** — Mineral wool batt insulation firmly packed into opening as a permanent form at the thickness shown in the table below. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material. As an option to the above, backer rod and/or foamed plastic backer material may be used.

C. **Fill, Void or Cavity Material** — **Caulk\*** — Applied within the annulus, flush with both surfaces of wall as shown in the table below:

| Pipe Type | Max Pipe Diam In. | Annular Space In. | Min Forming Mtl Depth In. | Type of Fill Mtl (a) | Min Fill Mtl Depth In. | F Rating Hr | T Rating Hr |
|-----------|-------------------|-------------------|---------------------------|----------------------|------------------------|-------------|-------------|
| 2A        | 1                 | 1                 | 1-1/4                     |                      | 1-1/4                  | 2           | 2           |
| 2B        | 4                 | 1                 | 1-1/4                     |                      | 1-1/4                  | 2           | 1/4         |
| 2B        | 4                 | 3/4 to 3-1/2      | 1/4                       | A                    | 1/4                    | 2           | 1/4         |
| 2C        | 4                 | 3/4 to 3-1/2      | 1/2                       | A                    | 1/2                    | 2           | 0           |
| 2B        | 4                 | 3/4 to 3-1/2      | 1                         | A                    | 1                      | 2           | 1/4         |
| 2B        | 4                 | 1/2               | 1                         | B                    | 1-1/4                  | 2           | 1/4         |

**RECTORSEAL — Metacaulk 950**

**System No. W-L-1466**  
April 30, 2013

| F Rating — 1 and 2 Hr (See Item 1)    | F Rating — 1 and 2 Hr (See Item 1)      |
|---------------------------------------|---|
| T Ratings — 0 and 1/2 Hr (See Item 1) | FT Ratings — 0 and 1/2 Hr (See Item 1)  |
|                                       | FH Rating — 1 and 2 Hr (See Item 1)     |
|                                       | FTH Ratings — 0 and 1/2 Hr (See Item 1) |

**Section A-A**

**1. Wall Assembly** — The 1 or 2 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 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.
- B. **Gypsum Board\*** — The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max area of rectangular opening is 192 sq in. (0.12 m<sup>2</sup>) with max height dimension of 6 in. (152 mm).

**The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**  
**The hourly T Rating of the firestop system is 0 Hr or 1/2 Hr when installed in 1 Hr or 2 Hr fire rated wall assembly, respectively.**

**2. Through Penetrants** — A maximum of six metallic pipes, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Penetrant to be rigidly supported on both sides of wall assembly. The following types and sizes of penetrants may be used:

- A. **Steel Pipe** — Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. **Iron Pipe** — Nom 4 in. diam (or smaller) cast or ductile iron pipe.
- C. **Conduit** — Nom 4 in. diam (or smaller) rigid steel conduit or steel electrical metallic tubing (EMT).
- D. **Copper Tubing** — Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
- E. **Copper Pipe** — Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.

**3. Firestop System** — The firestop system shall consist of the following:

- A. **Gypsum Board\*** — Two-piece patch consisting of two layers of min 5/8 in. (16 mm) thick gypsum board cut to follow the contours of the penetrants with a nom 1/4 in. (6 mm) annulus around each penetrant. Patch to be sized to overlap wall opening min 2 in. (51 mm) on all sides and cut into two halves such that a horizontal seam traverses the opening to permit installation around the penetrants. Each layer of the patch to be individually installed and secured to underlying gypsum board with caulk (Item 3B) and with No. 10 by 1-1/4 in. (32 mm) long Type G laminating screws. Top and bottom half of each patch layer shall be tightly butted together. Laminating screws for each layer to be located 1 in. (25 mm) from patch edges and spaced max 6 in. (152 mm) OC around perimeter of patch.
- B. **Fill, Void or Cavity Materials\* - Caulk or Sealant** — Min 1/4 in. (6 mm) diam continuous bead of fill material applied beneath first layer of gypsum patch and between first and second layers of gypsum patch. Fill material bead located approx 1 in. (25 mm) from edges of patch. Additional fill material installed to fill all seams between patch sections and to fill the annular spaces around the individual penetrants flush with both surfaces of the gypsum board patch. An additional 5/8 in. (16 mm) crown bead of fill material shall be applied over the butted seam of the gypsum board patch and around the entire perimeter of each penetrant.

System No. W-I-1001  
June 15, 2005

**F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)**  
**T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3)**  
**L Rating At Ambient — less than 1 CFM/sq ft**  
**L Rating At 400 F — less than 1 CFM/sq ft**

**SECTION A-A**

1. **Wall Assembly** — The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or 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 (max 2 h fire rated assemblies) 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 with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. **Gypsum Board\*** — Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. **Through-Penetrant** — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. **Conduit** — Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing

D. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing

E. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

F. **Through Penetrating Product\*** — Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**OMEGA FLEX INC**

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**GASTITE, DIV OF TITEFLEX**

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**WARD MFG L L C**

3. **Fill, Void or Cavity Material\*** — **Caulk or Sealant** — Min 5/8., 1-1/4-1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

| Max Pipe<br>or Conduit<br>Diam In (mm) | F<br>Rating<br>Hr | T<br>Rating<br>Hr |
|--|-------------------|-------------------|
| 1 (25)                                 | 1 or 2            | 0+, 1 or 2        |
| 1 (25)                                 | 3 or 4            | 3 or 4            |
| 4 (102)                                | 1 or 2            | 0                 |
| 6 (152)                                | 3 or 4            | 0                 |
| 12 (305)                               | 1 or 2            | 0                 |


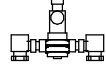





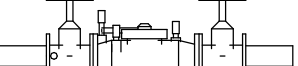

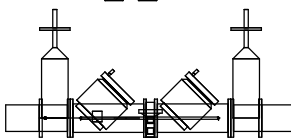
















+When copper pipe is used, T Rating is 0 h.






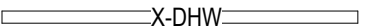




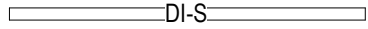



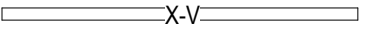
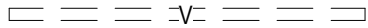

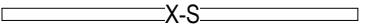

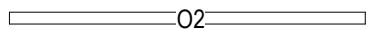
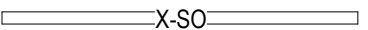


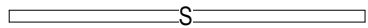







**3M COMPANY — CP 25WB+ or FB-3000 WT.**



PLUMBING SYMBOLS AND ABBREVIATIONS

| ABBREVIATION | DEFINITION                               | ABBREVIATION | DEFINITION                           | ABBREVIATION | DEFINITION                  |
|--------------|--|--------------|--------------------------------------|--------------|-----------------------------|
| A            | ARGON                                    | GAL          | GALLON                               | PC           | PLUMBING CONTRACTOR         |
| AD           | AREA DRAIN                               | GC           | GENERAL CONTRACTOR                   | POC          | POINT OF CONNECTION         |
| AFF          | ABOVE FINISHED FLOOR                     | GPM          | GALLON PER MINUTE                    | PRV          | PRESSURE REDUCING VALVE     |
| AG           | ABOVE GROUND                             | GPH          | GALLON PER HOUR                      | PSI          | POUNDS PER SQUARE INCH      |
| AGA          | AMERICAN GAS ASSOCIATION                 | H            | HYDROGEN                             | R            | THERMAL RESISTANCE          |
| AHU          | AUTHORITY HAVING JURISDICTION            | HD           | HEAD                                 | RDL          | ROOF DRAIN LEADER           |
| AMP          | AMPERE                                   | HE           | HELIUM                               | RPZ          | REDUCED PRESSURE ZONE       |
| ANSI         | AMERICAN NATIONAL STANDARDS INSTITUTE    | HG           | MERCURY                              | SEC          | SECOND                      |
| ASME         | AMERICAN SOCIETY OF MECHANICAL ENGINEERS | HGT          | HEIGHT                               | SIM          | SIMILAR                     |
| ASPE         | AMERICAN SOCIETY OF PLUMBING ENGINEERS   | HP           | HORSEPOWER                           | SPEC         | SPECIFICATION(S)            |
| ATM          | ATMOSPHERE                               | HR           | HOUR                                 | SPG          | SPECIALTY GAS               |
| BTU          | BRITISH THERMAL UNITS                    | HWS          | HOT WATER SUPPLY                     | SQ           | SQUARE                      |
| BTUH         | BRITISH THERMAL UNITS PER HOUR           | HWR          | HOT WATER RETURN                     | SS           | STAINLESS STEEL             |
| CA           | COMPRESSED AIR                           | IE           | INVERT ELEVATION                     | S/S          | SANITARY SEWER              |
| CIP          | CAST IRON PIPE                           | IN           | INCH/INCHES                          | STD          | STANDARD                    |
| CISPI        | CAST IRON SOIL AND PIPE INSTITUTE        | IN 2         | SQUARE INCHES)                       | T            | TEMPERATURE                 |
| CL           | CHLORINE                                 | IN 3         | CUBIC INCHES)                        | TD           | TRENCH DRAIN                |
| CONT         | CONTINUED                                | IPS          | IRON PIPE SIZE                       | TEMP         | TEMPERATURE DIFFERENCE      |
| CO           | CLEANOUT                                 | L            | LENGTH                               | TPV          | TRAP PRIMER VALVE           |
| CU           | COPPER                                   | LB           | POUND                                | TW           | TEMPERED WATER              |
| CWS          | COLD WATER SUPPLY                        | LBS          | POUNDS                               | TPY          | TYPICAL                     |
| DC           | DOUBLE CHECK                             | LPG          | LIQUIFIED PETROLEUM GAS              | UG           | UNDERGROUND                 |
| DEG          | DEGREE                                   | MA           | MEDICAL AIR                          | UL           | UNDERWRITERS LABORATORIES   |
| DI           | DE-IONIZED WATER                         | MIN          | MINUTE                               | V            | VACUUM                      |
| DIP          | DUCTILE IRON PIPE                        | N            | NITROGEN                             | VAC          | VOLTAGE ALTERNATING CURRENT |
| DIA          | DIAMETER                                 | N C          | NORMALLY CLOSED                      | VERT         | VERTICAL                    |
| EC           | ELECTRICAL CONTRACTOR                    | N O          | NORMALLY OPEN                        | VIV          | VALVE IN VERTICAL           |
| EL           | ELEVATION                                | NFPA         | NATIONAL FIRE PROTECTION ASSOCIATION | VT           | VENT                        |
| F            | FLUORINE                                 | NG           | NATURAL GAS                          | VTR          | VENT THROUGH ROOF           |
| FCO          | FLOOR CLEANOUT                           | NIC          | NOT IN CONTRACT                      | W            | WIDTH                       |
| FD           | FLOOR DRAIN                              | NPS          | NOMINAL PIPE SIZE                    | WT           | WEIGHT                      |
| FF           | FINISHED FLOOR                           | NTS          | NOT TO SCALE                         | WCO          | WALL CLEANOUT               |
| FFE          | FINISHED FLOOR ELEVATION                 | NO           | NUMBER                               | WHA          | WATER HAMMER ARRESTOR       |
| FL           | FLOOR                                    | NA           | NOT APPLICABLE                       | X            | EXISTING                    |
| FT           | FOOT/FEET                                | N2O          | NITROUS OXIDE                        |              |                             |
| FT 2         | SQUARE FOOT/FEET                         | ODL          | OVERFLOW DRAIN LEADER                |              |                             |
| FT 3         | CUBIC FOOT/FEET                          | OX           | OXYGEN                               |              |                             |
| FU           | FIXTURE UNIT                             | OZ           | OUNCE(S)                             |              |                             |
| FS           | FLOOR SINK                               |              |                                      |              |                             |

| SYMBOLS   | DEFINITION                      | SYMBOLS   | DEFINITION                               | SYMBOLS   | DEFINITION                      |
|---|---------------------------------|---|--|---|---------------------------------|
|    | BALL VALVE                      |    | MIXING VALVE                             |    | POINT OF CONNECTION TO EXISTING |
|    | CHECK VALVE                     |    | PUMP                                     |    | DEMOLITION CALLOUT              |
|    | CIRCUIT SETTER                  |   | REDUCED PRESSURE ZONE BACKFLOW PREVENTER |    | DETAIL CALLOUT                  |
|   | DOUBLE CHECK BACKFLOW PREVENTER |  | ROOF DRAIN                               |    | REVISION CALLOUT                |
|  | EQUIPMENT DESIGNATION           |  | TRAP PRIMER VALVE                        |  | KEYNOTE TAG                     |
|  | EXTERIOR CLEANOUT               |  | TEMPERATURE & PRESSURE RELIEF VALVE      |  | DEMOLISHED PIPE                 |
|  | FLOOR DRAIN                     |  | UNION                                    |   |                                 |
|  | FLOOR SINK                      |  | VACUUM BREAKER                           |   |                                 |
|  | HOSE BIBB                       |  | WALL CLEANOUT                            |   |                                 |
|  | INTERIOR FLOOR CLEANOUT         |  | WATER HAMMER ARRESTOR                    |   |                                 |

| LINETYPES   | DEFINITIONS               | LINETYPES   | DEFINITIONS              | LINETYPES   | DEFINITIONS                        |
|---|---------------------------|---|--------------------------|---|------------------------------------|
|  | DOMESTIC COLD WATER       |  | LAB COLD WATER           |  | EXISTING DOMESTIC COLD WATER       |
|  | DOMESTIC HOT WATER        |  | LAB HOT WATER            |  | EXISTING DOMESTIC HOT WATER        |
|  | DOMESTIC HOT WATER RETURN |  | LAB HOT WATER RETURN     |  | EXISTING DOMESTIC HOT WATER RETURN |
|  | TEMPERED WATER            |  | DEIONIZED WATER - SUPPLY |  | EXISTING SANITARY                  |
|  | SANITARY                  |  | DEIONIZED WATER - RETURN |  | EXISTING SANITARY VENT             |
|  | SANITARY VENT             |  | PROPANE GAS              |  | EXISTING STORM                     |
|  | SANITARY (GREASE WASTE)   |  | OXYGEN                   |  | EXISTING STORM OVERFLOW            |
|  | SANITARY (OIL SEPARATOR)  |  | LAB VACUUM               |   |                                    |
|  | STORM                     |  | COMPRESSED AIR           |   |                                    |
|  | STORM OVERFLOW            |  | NITROGEN                 |   |                                    |
|  | SOLAR WATER SUPPLY        |  | SPECIALTY GAS 1          |   |                                    |
|  | SOLAR WATER RETURN        |  | SPECIALTY GAS 2          |   |                                    |



SCO ID#: 20-22411-02A Construction Documents For Bid

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

|   |           |
|---|-----------|
| DRAWN                                   | SES       |
| CHECKED                                 | JRQ       |
| PROJECT NO.                             | 20061     |
| DATE                                    | 7/27/2025 |
| PLUMBING LEGENDS, NOTES & ABBREVIATIONS |           |
| SHEET NO.                               | P-001     |

REVISIONS

PROJECT STATUS  
CONSTRUCTION  
DOCUMENTS

OWNER ID  
20-22411-02A

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F 919 | 834-3203  
NCBELS Lic. No. P-1845  
NCBOL1 Lic. No. C-656

**FINCH**  
FINCH & ASSOCIATES  
engineering landscape architecture and surveying



7/23/2025 2:19:59 PM

| PLUMBING FIXTURE SCHEDULE |  |   |           |                           |      |    |                            |        |
|---------------------------|--|---|-----------|---------------------------|------|----|----------------------------|--------|
| ITEM                      | FIXTURE DESCRIPTION                      | EQUIPMENT SPECIFICATION   | ADA (Y/N) | POTABLE WATER CONNECTIONS |      |    | WASTE AND VENT CONNECTIONS |        |
|                           |  |   |           | COLD                      | HOT  | TW | WASTE                      | VENT   |
| CO-1                      | 4" FLOOR CLEANOUT                        | MIFAB C1000-R-C-P LACQUERED CAST IRON CLEANOUT WITH ANCHOR FLANGE, SECONDARY 10" RING, HEAVY DUTY STAINLESS STEEL COMBINED ACCESS COVER AND PLUG ASSEMBLY WITH PRIMARY GASKET SEAL.   | -         | -                         | -    | -  | 4"                         | -      |
| CO-2                      | 4" EXTERIOR CLEANOUT                     | MIFAB C1220 LACQUERED CAST IRON CLEANOUT, GAS AND WATERTIGHT THREADED BRONZE PLUG, SATIN FINISH, NICKEL BRONZE ADJUSTABLE TOP ASSEMBLY.<br>18"X18"X6" THICK 3000 PSI CONCRETE SLAB OVER COMPACTED BED.  | -         | -                         | -    | -  | 4"                         | -      |
| EDF-1                     | ELECTRIC DRINKING FOUNTIAN               | HALSEY TAYLOR MODEL HTHBHVRBL-NF VANDAL-RESISTANT, HEAVY DUTY BI-LEVEL DRINKING FOUNTAIN, BOTTLE FILLING STATION, WALL MOUNTED, NON-FILTERED, NON-REFRIGERATED, FREEZE RESISTANT, STAINLESS STEEL, ADA COMPLIANT.   | Y         | 1/2"                      | -    | -  | 1-1/2"                     | 1-1/4" |
| EHW-1                     | ELECTRIC WATER HEATER                    | AO SMITH COMMERCIAL GRADE ELECTRIC WATER HEATER MODEL ENT-50, 50 GALLON STORAGE CAPACITY, ELECTRIC INPUT OF 4.5KW, 240 VAC, 1 PHASE, SINGLE ELEMENT, 21.0 GPH @ 90°F, RISE, FACTORY INSTALLED TEMPERATURE AND PRESSURE RELIEF VALVE, DRAIN VALVE, FACTORY MOUNTED THERMOSTAT. | -         | 1"                        | 1"   | -  | -                          | -      |
| FD-1                      | 3" FLOOR DRAIN                           | MIFAB F1000 LACQUERED CAST IRON WITH ANCHOR FLANGE, WEEPHOLES, HEAVY DUTY STAINLESS STEEL STRAINER, TRAP PRIMER CONNECTION, AND MEMBRANE CLAMP.   | -         | 1/2"                      | -    | -  | 3"                         | 2"     |
| FD-2                      | 2" FLOOR DRAIN                           | MIFAB F1000 LACQUERED CAST IRON WITH ANCHOR FLANGE, WEEPHOLES, HEAVY DUTY STAINLESS STEEL STRAINER, TRAP PRIMER CONNECTION, AND MEMBRANE CLAMP.   | -         | -                         | -    | -  | 2"                         | 2"     |
| HB-1                      | HOSE BIBB                                | WOODFORD MODEL B67 FREEZELESS WALL HYDRANT, BACKFLOW PROTECTED, AUTOMATIC DRAINING WITHIN AN TAMPER RESISTANT BRASS BOX, POLISHED CHROME PLATED FINISH AND SUPPLIED WITH ADJUSTABLE WALL CLAMP.   | -         | 3/4"                      | -    | -  | -                          | -      |
| HB-2                      | HOSE BIBB                                | WOODFORD MODEL 68 FREEZELESS WALL HYDRANT, BACKFLOW PROTECTED, AUTOMATIC DRAINING, INTEGRAL COVER, POLISHED CHROME PLATED FINISH AND SUPPLIED WITH ADJUSTABLE WALL CLAMP.   | -         | 3/4"                      | -    | -  | -                          | -      |
| IWH-1A<br>IWH-1B          | INSTANTANEOUS GAS WATER HEATER (PROPANE) | AO. SMITH INSTANTANEOUS GAS TANKLESS WATER HEATER MODEL CT-199I-P, PROPANE FUEL TYPE, POWER DIRECT VENT, ELECTRONIC IGNITION, 0.5 TO 10 GPM FLOW RATE, 120° F SET POINT, 5 YEAR WARRANTY.   | -         | 3/4"                      | 3/4" | -  | -                          | 4"     |
| LAV-1                     | LAVATORY                                 | KOHLER MODEL K-2211-0 CAXTON OVAL UNDER-MOUNT LAVATORY, VITREOUS CHINA, FRONT OVERFLOW, 20 1/4" X 17 1/4" OVERALL DIMENSIONS, 19" X 15" BASIN.  | Y         | -                         | -    | -  | 1-1/4"                     | 1-1/4" |
|                           | FIXTURE CARRIER                          | NOT APPLICABLE.   | -         | -                         | -    | -  | -                          | -      |
|                           | FAUCET                                   | ZURN CENTERSSET METERING FAUCET MODEL Z86500-XL-G, CHROME PLATED METAL CONSTRUCTION, GRID DRAIN, 4" LONG SPOUT, VANDAL RESISTANT, ADA COMPLIANT COLOR CODED METAL HANDLES, ADJUSTABLE CYCLE TIME PRESET TO 10 SECONDS, 1.0 GPM, 4" CENTERS, COMPLYING TO ANSI A112.18.1.      | Y         | 1/2"                      | 1/2" | -  | -                          | -      |
|                           | P-TRAP ASSEMBLY                          | McGUIRE MANUFACTURING CO., INC. MODEL B8872 HEAVY CAST BRASS BODY P-TRAP WITH 17 GAUGE TUBULAR BRASS WALL BEND WITH CLEANOUT PLUG, SHALLOW STEEL FLANGE, 1 1/4" X 1 1/4" X 17 GAUGE.  | -         | -                         | -    | -  | 1-1/4"                     | -      |
|                           | LAVATORY SUPPLIES (2 REQUIRED)           | McGUIRE MANUFACTURING CO., INC. MODEL 177, 1/2" COPPER SWEAT X 1/2" OD, CHROME PLATED BRASS ANGLE STOP, ROUND WHEEL HANDLES, 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISER, CHROME PLATED STEEL FLANGE.  | -         | 1/2"                      | 1/2" | -  | -                          | -      |
|                           | LAVATORY PIPING INSULATORS               | McGUIRE MANUFACTURING CO., INC. MODEL PW 2000 PRO WRAP SEAMLESS INSULATOR, MOLDED CLOSED CELL VINYL, 3/16" THICK, WHITE, WITH COVERS FOR TRAP, TAIL PIECE, WALL BEND AND 2 SUPPLY COVERS.   | -         | -                         | -    | -  | -                          | -      |
| LAV-2                     | LAVATORY                                 | KOHLER MODEL K-1728 CHESAPEAKE WALL HUNG LAVATORY, VITREOUS CHINA, FRONT OVERFLOW, 19 1/4" X 17 1/4" OVERALL DIMENSIONS, 14" X 11" BASIN, SELF-DRAINING DECK AREA, LEDGE, 15" X 10" X 6 3/4" BOWL, SET UP FOR WALL HANGER OR CONCEALED SUPPORT ARMS.                          | Y         | -                         | -    | -  | 1-1/2"                     | 1-1/4" |
|                           | FIXTURE CARRIER                          | MIFAB MC-41 CONCEALED ARM LAVATORY CARRIER, FLOOR MOUNTED, HEAVY GAUGE RECTANGULAR STEEL UPRIGHTS WITH INTEGRAL WELDED FEET, ADJUSTABLE DUCTILE IRON ARMS, LEVELING SCREWS WITH BASIN LOCKING DEVICE, CAST IRON SUPPORST, UPPER TIE ROD, PLATED HARDWARE                      | -         | -                         | -    | -  | -                          | -      |
|                           | FAUCET                                   | ZURN CENTERSSET METERING FAUCET MODEL Z86500-XL-G, CHROME PLATED METAL CONSTRUCTION, GRID DRAIN, 4" LONG SPOUT, VANDAL RESISTANT, ADA COMPLIANT COLOR CODED METAL HANDLES, ADJUSTABLE CYCLE TIME PRESET TO 10 SECONDS, 1.0 GPM, 4" CENTERS, COMPLYING TO ANSI A112.18.1.      | Y         | 1/2"                      | 1/2" | -  | -                          | -      |
|                           | P-TRAP ASSEMBLY                          | McGUIRE MANUFACTURING CO., INC. MODEL B8872 HEAVY CAST BRASS BODY P-TRAP WITH 17 GAUGE TUBULAR BRASS WALL BEND WITH CLEANOUT PLUG, SHALLOW STEEL FLANGE, 1 1/4" X 1 1/4" X 17 GAUGE.  | -         | -                         | -    | -  | 1-1/4"                     | -      |
|                           | LAVATORY SUPPLIES (2 REQUIRED)           | McGUIRE MANUFACTURING CO., INC. MODEL 177, 1/2" COPPER SWEAT X 1/2" OD, CHROME PLATED BRASS ANGLE STOP, ROUND WHEEL HANDLES, 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISER, CHROME PLATED STEEL FLANGE.  | -         | 1/2"                      | 1/2" | -  | -                          | -      |
|                           | LAVATORY PIPING INSULATORS               | McGUIRE MANUFACTURING CO., INC. MODEL PW 2000 PRO WRAP SEAMLESS INSULATOR, MOLDED CLOSED CELL VINYL, 3/16" THICK, WHITE, WITH COVERS FOR TRAP, TAIL PIECE, WALL BEND AND 2 SUPPLY COVERS.   | -         | -                         | -    | -  | -                          | -      |
| MS-1                      | MOP SINK                                 | FLORESTONE PRODUCTS CO., INC. MODEL 81 TERRAZZO MOP RECEPTOR, 24" X 24" X 12" HIGH, GALVANIZED STEEL FLANGE, STAINLESS STEEL PROTECTIVE CAP, AND 3" BRASS DRAIN BODY CAST IN PLACE.   | -         | -                         | -    | -  | 3"                         | 2"     |
|                           | FAUCET                                   | FLORESTONE PRODUCTS CO., INC. MODEL MR-371 FAUCET (SPEAKMAN) WITH INTEGRAL VACUUM BREAKER, DOUBLE STOPS AND BUCKET HOOK WITH WALL BRACE.  | -         | 1/2"                      | 1/2" | -  | -                          | -      |
|                           | HOSE CLAMP                               | FLORESTONE PRODUCTS CO., INC. MODEL MR-370 HOSE AND CLAMP, 3/8" DIAMETER X 5'-0" LONG.  | -         | -                         | -    | -  | -                          | -      |
|                           | MOP HANGER                               | FLORESTONE PRODUCTS CO., INC. MODEL 372 MOP HANGER WITH 3 BRACKETS.   | -         | -                         | -    | -  | -                          | -      |
|                           | STRAINER                                 | FLORESTONE PRODUCTS CO., INC. MODEL MR-375 FLAT CHROME STRAINER.  | -         | -                         | -    | -  | -                          | -      |

| PLUMBING FIXTURE SCHEDULE |  |   |           |                           |      |    |                            |      |
|---------------------------|--|---|-----------|---------------------------|------|----|----------------------------|------|
| ITEM                      | FIXTURE DESCRIPTION                      | EQUIPMENT SPECIFICATION   | ADA (Y/N) | POTABLE WATER CONNECTIONS |      |    | WASTE AND VENT CONNECTIONS |      |
|                           |  |   |           | COLD                      | HOT  | TW | WASTE                      | VENT |
| MV-1<br>MV-2              | THERMOSTATIC MIXING VALVE                | WATTS WATER TECHNOLOGIES, POWERS MODEL LFLM492-10-2, THERMOSTATIC TYPE MIXING VALVE, BRASS BODY, LEAD FREE, CORROSION RESISTANT COMPONENTS, UNION END, INTERGRAL CHECKS TO PREVENT CROSS-FLOW, STAINLESS STEEL STRAINERS, 0.5 GPM MINIMUM FLOW RATE, MAXIMUM 23 GPM FLOW RATE, VALVE DESIGN SHALL PROVIDE PROTECTION AGAINST FAILURE OF COLD WATER SUPPLY, ADJUSTABLE TEMPERATURE SELECTION WITH VANDAL RESISTANT LOCKABLE HANDLE, TEMPERED WATER SETTING 120°F, ASSE 1017 COMPLIANT.   | -         | 1"                        | 1"   | 1" | -                          | -    |
| RPZ-1                     | REDUCED PRESSURE ZONE BACKFLOW PREVENTER | WATTS REGULATOR MODEL 009M2QT-S, SERIES 009 REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH QUATER TURN FULL PORT RESILIENT SEATED BRONZE BALL SHUTOFF VALVES WITH LEVER HANDLES, 175 PSI MAXIMUM WORKING PRESSURE.   | -         | 2"                        | -    | -  | -                          | -    |
| SH-1                      | SHOWER STALL                             | BUILT-IN-PLACE BY OTHERS.   | N         | -                         | -    | -  | -                          | -    |
|                           | FAUCET                                   | SYMMONS FRE-FLO MODEL 4-295 SINGLE MODE SHOWERHEAD AT 30 DEGREE SPRAY ANGEL, ADJUSTABLE SPRAY PATTERN, VANDAL RESISTANT, 2.5 GPM, POLISHED CHROME FINISH, AUTOMATIC SHUT-OFF VALVE: SYMMONS MODEL 4-420 SHOWEROFF SHOWER VALVE AND TRIM, INTEGRAL SERVICE STOP, ADJUSTABLE RUN TIME, VANDAL RESISTANT.  | N         | 1/2"                      | 1/2" | -  | -                          | -    |
|                           | DRAIN                                    | McGUIRE MANUFACTURING CO., INC. SHOWER STRAINER MODEL 1266A, 2" FIP, HEAVY CAST BRASS BODY, STAINLESS STEEL GRID, VANDAL RESISTANT SCREWS.  | -         | -                         | -    | -  | 2"                         | 2"   |
| SH-2                      | SHOWER STALL                             | BUILT-IN-PLACE BY OTHERS.   | Y         | -                         | -    | -  | -                          | -    |
|                           | FAUCET                                   | SYMMONS MODEL T736 SYMMONS WALL MOUNTED SLIDE AND GRAB BAR, HAND SHOWER WITH NON-POSITIVE SHUT-OFF, SINGLE FUNCTION, 5 FOOT FLEXIBLE METAL HOSE, POLISHED STAINLESS STEEL, STANDARD FLOW RATE IS 2.0 GPM, 90 DEGREE WALL MOUNTED WATER SUPPLY ELBOW IN CHROME, 10 YEAR WARRANTY. ASME A112.18.1/CSA B125.1. AUTOMATIC SHUT-OFF VALVE: SYMMONS MODEL 4-420 SHOWEROFF SHOWER VALVE AND TRIM, INTEGRAL SERVICE STOP, ADJUSTABLE RUN TIME, VANDAL RESISTANT, AUTOMATIC SHUT-OFF VALVE: SYMMONS MODEL 4-420 SHOWEROFF SHOWER VALVE AND TRIM, INTEGRAL SERVICE STOP, ADJUSTABLE RUN TIME, VANDAL RESISTANT. | Y         | 1/2"                      | 1/2" | -  | -                          | -    |
|                           | DRAIN                                    | McGUIRE MANUFACTURING CO., INC. SHOWER STRAINER MODEL 1266A, 2" FIP, HEAVY CAST BRASS BODY, STAINLESS STEEL GRID, VANDAL RESISTANT SCREWS.  | -         | -                         | -    | -  | 2"                         | 2"   |
| SK-1                      | SINK                                     | ELKAY MODEL ESS4924R1 STAINLESS STEEL, WALL MOUNT, 49.5" X 24" X 10" SINGLE COMPARTMENT SERVICE SINK, 18" X 20.5" X 10" BOWL, 30" DRAINBOARD, 14 GUAGE 304 STAINLESS STEEL, BUFFED SATIN FINISH.<br><br><b>NOTE: MOUNT AT 34 INCHES FROM FLOOR TO TOP OF LIP OF SINK.</b>   | -         | -                         | -    | -  | 3-1/2"                     | 2"   |
|                           | FAUCET                                   | MOEN MODEL 8124, TWO-HANDLE SERVICE SINK FAUCET, SOLID BRASS CONSTRUCTION, POLISHED CHROME FINISH, VACUUM-BREAKER SPOUT, VANDAL RESISTANT, INTERGRAL CHECK STOPS, SERVICE STOPD, 8" CENTER, LEVER STYLE HANDLES WITH HOT AND COLD INDICATORS, UNRESTRICTED FLOW, ASME A112.18.1 CERTIFIED, 5 YEAR WARRANTY.   | -         | 1/2"                      | 1/2" | -  | -                          | -    |
|                           | BASKET STRAINER DRAIN ASSEMBLY           | JUST MODEL J-35, TYPE 304 STAINLESS STEEL STRAINER WITH REMOVEABLE STAINLESS STEEL BASKET WITH LOCKING SHELL, BASKET FITTED WITH RUBBER STOPPER ON BOTTOM, 1 1/2" CHROME PLATED TAILPIECE.  | -         | -                         | -    | -  | 1-1/2"                     | -    |
|                           | P-TRAP ASSEMBLY                          | McGUIRE MANUFACTURING CO., INC. MODEL B8912 HEAVY CAST BRASS BODY P-TRAP WITH 17 GAUGE TUBULAR BRASS WALL BEND WITH CLEANOUT PLUG, SHALLOW STEEL FLANGE, 1 1/2" X 1 1/2" X 17 GAUGE.  | -         | -                         | -    | -  | 1-1/2"                     | -    |
|                           | SINK SUPPLIES (2 REQUIRED)               | McGUIRE MANUFACTURING CO., INC. MODEL 177, 1/2" COPPER SWEAT X 1/2" OD, CHROME PLATED BRASS ANGLE STOP, ROUND WHEEL HANDLES, 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISER, CHROME PLATED STEEL FLANGE.  | -         | 1/2"                      | 1/2" | -  | -                          | -    |



SCO ID#: 20-22411-02A Construction Documents For Bid

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| REVISIONS                                |
| PROJECT STATUS<br>CONSTRUCTION DOCUMENTS |
| OWNER ID<br>20-22411-02A                 |

|  |
|--|
| Finch & Associates<br>309 North Boylan Avenue<br>Raleigh, NC 27603-1402<br>T 919   833-1212<br>F 919   834-3203<br>NCBELS Lic. No. P-1845<br>NCBOL1 Lic. No. C-656 |
|--|



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| PETTIGREW STATE PARK<br>CAMPGROUND AND OFFICE IMPROVEMENTS<br>2252 LAKE SHORE ROAD<br>CRESWELL, NORTH CAROLINA |
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|                      |
|----------------------|
| DRAWN<br>SES         |
| CHECKED<br>JRQ       |
| PROJECT NO.<br>20061 |
| DATE<br>7/27/2025    |
| PLUMBING SCHEDULES   |
| SHEET NO.<br>P-100   |



| PLUMBING FIXTURE SCHEDULE |                                |   |           |                           |      |    |                            |      |
|---------------------------|--------------------------------|---|-----------|---------------------------|------|----|----------------------------|------|
| ITEM                      | FIXTURE DESCRIPTION            | EQUIPMENT SPECIFICATION   | ADA (Y/N) | POTABLE WATER CONNECTIONS |      |    | WASTE AND VENT CONNECTIONS |      |
|                           |                                |   |           | COLD                      | HOT  | TW | WASTE                      | VENT |
| SK-2                      | SINK                           | JUST SINGLE BOWL SINK MODEL SL-ADA-1921-A-AGR, 18 GAUGE TYPE 304, 18-8 STAINLESS STEEL, 14"x16"x6-1/2" BOWL, FAUCET LEDGE WITH (4) HOLES ON 4" CENTERS, RECESSED DRAIN OPENING, FULLY UNDERCOATED FOR SOUND AND TEMPERATURE INSULATION, POLISHED FINISH, CSA AND IAMPO CERTIFIED TO MEET ASME A112.19.3M, 5 YEAR WARRANTY.  | Y         | -                         | -    | -  | 1-1/2"                     | 2"   |
|                           | FAUCET                         | MOEN MODEL 8707 M-DURA SERIES, SINGLE-HANDLE KITCHEN FAUCET, SOLID BRASS CONSTRUCTION, POLISHED CHROME FINISH, LEVER STYLE PULL-ON/PUSH-OFF HANDLE, AERATOR WITH 1.5 GPM MAX FLOW, 9" SPOUT, SIDE SPRAY, ASME A112.18.1 / CSA B125.1 / ANSI 61 / NSF 9 CERTIFIED, 5 YEAR WARRANTY, ADA COMPLIANT.   | Y         | 1/2"                      | 1/2" | -  | -                          | -    |
|                           | BASKET STRAINER DRAIN ASSEMBLY | JUST MODEL J-35, TYPE 304 STAINLESS STEEL STRAINER WITH REMOVEABLE STAINLESS STEEL BASKET WITH LOCKING SHELL, BASKET FITTED WITH RUBBER STOPPER ON BOTTOM, 1 1/2" CHROME PLATED TAILPIECE.  | -         | -                         | -    | -  | 1-1/2"                     | -    |
|                           | P-TRAP ASSEMBLY                | McGUIRE MANUFACTURING CO., INC. MODEL B8912 HEAVY CAST BRASS BODY P-TRAP WITH 17 GAUGE TUBULAR BRASS WALL BEND WITH CLEANOUT PLUG, SHALLOW STEEL FLANGE, 1 1/2" X 1 1/2" X 17 GAUGE.  | -         | -                         | -    | -  | 1-1/2"                     | -    |
|                           | SINK SUPPLIES (2 REQUIRED)     | McGUIRE MANUFACTURING CO., INC. MODEL 177, 1/2" COPPER SWEAT X 1/2" OD, CHROME PLATED BRASS ANGLE STOP, ROUND WHEEL HANDLES, 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISER, CHROME PLATED STEEL FLANGE.  | -         | 1/2"                      | 1/2" | -  | -                          | -    |
| TPV-#                     | TRAP PRIMER VALVE (FD-1)       | PRECISION PLUMBNG PRODUCTS, INC. MODEL P-2, ADJUSTABLE FOR LINE PRESSURE, ADJUSTABLE DELIVERY AMOUNT, 35 TO 75 PSIG OPERATING RANGE, -69°F TO 135°F, MACHINED CORROSION RESISTANT BRASS, WITH DU-2 DISTRIBUTION UNIT (2 DRAINS), CONFORMING TO ASSE1018, WARRANTED FOR LIFE OF SYSTEMS.   | -         | 1/2"                      | -    | -  | -                          | -    |
| UR-1                      | URINAL                         | KOHLER MODEL K-4989-T-0 FRESHMAN URINAL, VITREOUS CHINA, 1.0 GPF, 17" RIM HEIGHT, SIPHON JET, ADA COMPLIANT.  | Y         | 3/4"                      | -    | -  | 2"                         | 2"   |
|                           | FLUSH VALVE                    | SLOAN ROYAL MODEL 186-1.0 MANUAL OPERATED FLUSH VALVE, 1.0 GPF, POLISHED CHROME, TOP SPUD CONNECTION.   | -         | 3/4"                      | -    | -  | -                          | -    |
| WC-1                      | WATER CLOSET                   | KOHLER WELCOMME MODEL K-96053 ELONGATED TOILET, VITREOUS CHINA, 1.28 GPF, 15" RIM HEIGHT, ELONGATED SIPHON ACTION BOWL, FULLY GLAZED TRAPWAY, 1 1/2" TOP SPUD, 2 1/4" PASSAGEWAY.   | N         | -                         | -    | -  | 4"                         | 2"   |
|                           | FLUSH VALVE                    | SLOAN VALVE COMPANY MODEL ROYAL 111-1.6-YO, EXPOSED MANUAL OPERATED FLUSH VALVE, 1.6 GPF, STOP SEAT AND VACUUM BREAKER, ADA COMPLIANT, VANDAL RESISTANT STOP CAP, SWEAT SOLDER ADAPTER WITH COVER TUBE AND CAST SET SCREW WALL FLANGE, CHROME PLATED FINISH, VALVE BODY, COVER, TAILPIECE AND CONTROL STOP SHALL BE SEMI-RED BRASS, BUMPER ON ANGLE STOP FOR OPEN FRONT SEAT WITHOUT COVER, VALVE SHALL CONFORM TO ASSE 1037, AND ANSI/ASME 112.19.6. | -         | 1"                        | -    | -  | -                          | -    |
|                           | CARRIER                        | NOT APPLICABLE.   | -         | -                         | -    | -  | -                          | -    |
|                           | SEAT                           | KOHLER MODEL K-4670-SC-0, OPEN FRONT SEAT LESS COVER, POLYPROPYLENE PLASTIC, STAINLESS STEEL HINGES, WHITE, ADA COMPLIANT.  | -         | -                         | -    | -  | -                          | -    |
| WC-2                      | WATER CLOSET                   | KOHLER HIGHCLIFF MODEL K-96057 ELONGATED TOILET, VITREOUS CHINA, 1.6 GPF, 16 5/8" RIM HEIGHT, ELONGATED SIPHON ACTION BOWL, FULLY GLAZED TRAPWAY, 1 1/2" TOP SPUD, 2 1/4" PASSAGEWAY  | Y         | -                         | -    | -  | 4"                         | 2"   |
|                           | FLUSH VALVE                    | SLOAN VALVE COMPANY MODEL ROYAL 111-1.6-YO, EXPOSED MANUAL OPERATED FLUSH VALVE, 1.6 GPF, STOP SEAT AND VACUUM BREAKER, ADA COMPLIANT, VANDAL RESISTANT STOP CAP, SWEAT SOLDER ADAPTER WITH COVER TUBE AND CAST SET SCREW WALL FLANGE, CHROME PLATED FINISH, VALVE BODY, COVER, TAILPIECE AND CONTROL STOP SHALL BE SEMI-RED BRASS, BUMPER ON ANGLE STOP FOR OPEN FRONT SEAT WITHOUT COVER, VALVE SHALL CONFORM TO ASSE 1037, AND ANSI/ASME 112.19.6. | -         | 1"                        | -    | -  | -                          | -    |
|                           | CARRIER                        | NOT APPLICABLE.   | -         | -                         | -    | -  | -                          | -    |
|                           | SEAT                           | KOHLER MODEL K-4670-SC-0, OPEN FRONT SEAT LESS COVER, POLYPROPYLENE PLASTIC, STAINLESS STEEL HINGES, WHITE, ADA COMPLIANT.  | -         | -                         | -    | -  | -                          | -    |
| WH-1                      | WALL HYDRANT                   | MIFAB MODEL MHY-20 ENCASED NON-FREEZE, SELF-DRAINING, ANTI-SIPHON WALL HYDRANT, WITH INTEGRAL VANDAL RESISTANT VACUUM BREAKER, BRASS CASING, BRONZE INTERIOR PARTS, SUPPLIED WITH OPERATING KEY.  | -         | 3/4"                      | -    | -  | -                          | -    |
| YH-1                      | YARD HYDRANT                   | FREEZE FLOW BY HOEPTNER PRODUCTS, EXECUTIVE MODEL 213XE SANITARY YARD HYDRANT, INTERGRAL BACKFLOW PREVENTER, ADA COMPLIANT (OPERATING AT < 5LBS OF FORCE), ASSE COMPLIANT, MINIMUM OPERATING PRESSURE OF 5PSI, MAXIMUM OPERATING PRESSURE OF 100 PSI.   | -         | 1"                        | -    | -  | -                          | -    |

| PLUMBING/ELECTRICAL EQUIPMENT SCHEDULE |                                |                        |                |      |    |                         |                      |          |                                       |
|--|--------------------------------|------------------------|----------------|------|----|-------------------------|----------------------|----------|---------------------------------------|
| EQUIPMENT DESIGNATION                  | EQUIPMENT DESCRIPTION          | EQUIPMENT FURNISHED BY | VOLTAGE/ PHASE | KW   | HP | DISCONNECT FURNISHED BY | STARTER FURNISHED BY | CONTROLS | REMARKS                               |
| EDF-1                                  | ELECTRIC DRINKING FOUNTAIN     | PC                     | 120 / 1        | -    | -  | PC                      | N/A                  | W/EQUIP  |                                       |
| EWH-1                                  | ELECTRIC WATER HEATER          | PC                     | 120 / 1        | 4.5  | -  | EC                      | N/A                  | W/EQUIP  | A.O. SMITH MODEL ENT-50; ALTERNATE #1 |
| IWH-1A                                 | TANKLESS WATER HEATER, PROPANE | PC                     | 120 / 1        | 0.09 | -  | EC                      | N/A                  | W/EQUIP  | A.O. SMITH MODEL CT-199I-P; BASE BID  |
| IWH-1B                                 | TANKLESS WATER HEATER, PROPANE | PC                     | 120 / 1        | 0.09 | -  | EC                      | N/A                  | W/EQUIP  | A.O. SMITH MODEL CT-199I-P; BASE BID  |

| WATER HEATING SYSTEM SUMMARY - BASE BID  |      |                              |  |
|--|------|------------------------------|--|
| FIXTURE/EQUIPMENT DESCRIPTION  | QTY. | GALLONS PER FIXTURE PER HOUR | SUB-TOTAL GALLONS PER FIXTURE PER HOUR |
| AUTOCLAVE  | -    | - GPH                        | - GPH                                  |
| BATH TUB WITHOUT SHOWER HEAD   | -    | - GPH                        | - GPH                                  |
| BATH TUB WITH SHOWER HEAD  | -    | - GPH                        | - GPH                                  |
| CAGE WASHER  | -    | - GPH                        | - GPH                                  |
| DISHWASHER - RESIDENTIAL   | -    | - GPH                        | - GPH                                  |
| DISHWASHER - COMMERCIAL  | -    | - GPH                        | - GPH                                  |
| LAVATORY   | 1    | 6 GPH                        | 30 GPH                                 |
| MOP SINK   | 1    | 20 GPH                       | 20 GPH                                 |
| PEDICURE STATION   | -    | - GPH                        | - GPH                                  |
| SHOWER - PRIVATE   | -    | - GPH                        | - GPH                                  |
| SHOWER - PUBLIC  | 5    | 150 GPH                      | 750 GPH                                |
| SHOWER - GANG  | -    | - GPH                        | - GPH                                  |
| SINK - BAR   | -    | - GPH                        | - GPH                                  |
| SINK - BREAK ROOM  | -    | - GPH                        | - GPH                                  |
| SINK - CLASS ROOM  | -    | - GPH                        | - GPH                                  |
| SINK - CUSTODIAL   | -    | - GPH                        | - GPH                                  |
| SINK - DENTAL UNIT   | -    | - GPH                        | - GPH                                  |
| SINK - EXAM ROOM   | -    | - GPH                        | - GPH                                  |
| SINK - KITCHEN - COMMERCIAL  | -    | - GPH                        | - GPH                                  |
| SINK - LABORATORY ROOM   | -    | - GPH                        | - GPH                                  |
| SINK - LOUNGE ROOM   | -    | - GPH                        | - GPH                                  |
| SINK - SCRUB   | -    | - GPH                        | - GPH                                  |
| SINK - SCULLERY  | 1    | 20 GPH                       | 20 GPH                                 |
| SINK - SHAMPOO   | -    | - GPH                        | - GPH                                  |
| SINK - STERILIZATION   | -    | - GPH                        | - GPH                                  |
| SINK - UTILITY   | -    | - GPH                        | - GPH                                  |
| STERILIZER   | -    | - GPH                        | - GPH                                  |
| WASHING MACHINE - RESIDENTIAL GRADE  | -    | - GPH                        | - GPH                                  |
| WASHING MACHINE - (15LBS)  | -    | - GPH                        | - GPH                                  |
| TOTAL GALLONS PER HOUR   |      |                              | 820 GPH                                |
| DEMAND FACTOR  |      | X                            | 31                                     |
| ADJUSTED GALLONS PER HOUR  |      |                              | 246 GPH                                |
| STORAGE CAPACITY FACTOR  |      | X                            | NA                                     |
| TOTAL GALLONS OF STORAGE CAPACITY REQUIRED:  |      |                              | NA GAL                                 |
| WATER HEATER REQUIREMENTS (APPROXIMATE)  |      |                              |  |
| REQUIRED GPH (FIRST HOUR RECOVERY @ 90°F RISE)   |      | 246                          | GPH                                    |
| REQUIRED STORAGE CAPACITY  |      | NA                           | GAL                                    |
| NOTES:<br>(1) SIZED PER 2019 ASHRAE HANDBOOK, "HVAC APPLICATIONS", CHAPTER 51 - "SERVICE WATER HEATING". |      |                              |  |

| DOMESTIC WATER SYSTEM SUMMARY - BASE BID  |          |                     |                         |
|---|----------|---------------------|-------------------------|
| FIXTURE/EQUIPMENT DESCRIPTION   | QUANTITY | FIXTURE UNIT VALUES | FIXTURE UNIT SUB-TOTALS |
| AUTOCLAVE   | -        | -                   | -                       |
| BATH TUB WITHOUT SHOWER HEAD  | -        | -                   | -                       |
| BATH TUB WITH SHOWER HEAD   | -        | -                   | -                       |
| CAGE WASHER   | -        | -                   | -                       |
| DISHWASHER - RESIDENTIAL  | -        | -                   | -                       |
| DISHWASHER - COMMERCIAL   | -        | -                   | -                       |
| DRINKING FOUNTAIN - SINGLE UNIT   | -        | -                   | -                       |
| DRINKING FOUNTAIN - HIGH/LOW UNIT   | -        | -                   | -                       |
| ELECTRIC WATER COOLER - SINGLE UNIT   | -        | -                   | -                       |
| ELECTRIC WATER COOLER - HIGH/LOW UNIT   | 1        | 0.25                | 0.25                    |
| ICE MACHINE - COMMERCIAL  | -        | -                   | -                       |
| LAVATORY  | 5        | 2.0                 | 10.0                    |
| MOP SINK  | 1        | 3.0                 | 3.0                     |
| PEDICURE STATION  | -        | -                   | -                       |
| SHOWER - PRIVATE  | -        | -                   | -                       |
| SHOWER - PUBLIC   | 5        | 4.0                 | 20.0                    |
| SHOWER - GANG   | -        | -                   | -                       |
| SINK - BAR  | -        | -                   | -                       |
| SINK - BREAK ROOM   | -        | -                   | -                       |
| SINK - CLASS ROOM   | -        | -                   | -                       |
| SINK - CUSTODIAL  | -        | -                   | -                       |
| SINK - DENTAL UNIT  | -        | -                   | -                       |
| SINK - EXAM ROOM  | -        | -                   | -                       |
| SINK - KITCHEN - COMMERCIAL   | -        | -                   | -                       |
| SINK - LABORATORY ROOM  | -        | -                   | -                       |
| SINK - LOUNGE ROOM  | -        | -                   | -                       |
| SINK - SCRUB  | -        | -                   | -                       |
| SINK - SCULLERY   | 1        | 4.0                 | 4.0                     |
| SINK - SHAMPOO  | -        | -                   | -                       |
| SINK - STERILIZATION  | -        | -                   | -                       |
| SINK - UTILITY  | -        | -                   | -                       |
| STERILIZER  | -        | -                   | -                       |
| URINAL - 3/4" SUPPLY  | -        | -                   | -                       |
| URINAL - 1" SUPPLY  | -        | -                   | -                       |
| WASHING MACHINE - RESIDENTIAL GRADE   | -        | -                   | -                       |
| WASHING MACHINE - (8LBS)  | -        | -                   | -                       |
| WASHING MACHINE - (15LBS)   | -        | -                   | -                       |
| WATER CLOSET - FLUSH VALVE - PRIVATE  | -        | -                   | -                       |
| WATER CLOSET - FLUSH TANK - PRIVATE   | -        | -                   | -                       |
| WATER CLOSET - FLUSH VALVE - PUBLIC   | 5        | 10.0                | 50.0                    |
| WATER CLOSET - FLUSH TANK - PUBLIC  | -        | -                   | -                       |
| TOTAL FIXTURE UNITS   |          |                     | 87.25                   |
| 90 FU = 64.3 GPM<br>- 80 FU = - 61.2 GPM<br>10 FU = 3.1 GPM<br>3.1 GPM = .31 GPM FU<br>10 FU = .31 FU<br>87.25 FU<br>- 61.2 FU X .31 GPM FU = 8.08 GPM<br>26.05 FU<br>61.2 GPM<br>+ 8.08 GPM<br>69.28 GPM |          |                     |                         |
| SELECTED PIPE SIZE:   |          | 2                   | (INCH)                  |
| WATER VELOCITY (APPROXIMATE):   |          | 6                   | FPS                     |
| PRESSURE DROP PER 100 FEET (APPROXIMATE):   |          | 5                   | PSI                     |
| NOTES:<br>(1) FIXTURE UNITS, WATER VELOCITY, AND PRESSURE DROP ARE CALCULATED PER NCBC - PLUMBING, 2018 EDITION.<br>(2) PIPING SIZED PER FIGURE E103.3, NCBC - PLUMBING, 2018 EDITION.                    |          |                     |                         |

| WASTE AND VENT SYSTEM SUMMARY - BASE BID   |      |                     |                         |
|--|------|---------------------|-------------------------|
| FIXTURE/EQUIPMENT DESCRIPTION  | QTY. | FIXTURE UNIT VALUES | FIXTURE UNIT SUB-TOTALS |
| AUTOCLAVE  | -    | -                   | -                       |
| BATH TUB WITHOUT SHOWER HEAD   | -    | -                   | -                       |
| BATH TUB WITH SHOWER HEAD  | -    | -                   | -                       |
| CAGE WASHER  | -    | -                   | -                       |
| DISHWASHER - RESIDENTIAL   | -    | -                   | -                       |
| DISHWASHER - COMMERCIAL  | -    | -                   | -                       |
| DRINKING FOUNTAIN - SINGLE UNIT  | -    | -                   | -                       |
| DRINKING FOUNTAIN - HIGH/LOW UNIT  | -    | -                   | -                       |
| ELECTRIC WATER COOLER - SINGLE UNIT  | -    | -                   | -                       |
| ELECTRIC WATER COOLER - HIGH/LOW UNIT  | -    | -                   | -                       |
| FLOOR DRAIN  | 8    | 2                   | 16                      |
| FLOOR SINK   | -    | -                   | -                       |
| ICE MACHINE - COMMERCIAL   | -    | -                   | -                       |
| LAVATORY   | 5    | 1                   | 5                       |
| MOP SINK   | 1    | 2                   | 2                       |
| PEDICURE STATION   | -    | -                   | -                       |
| SHOWER - PRIVATE   | -    | -                   | -                       |
| SHOWER - PUBLIC  | 5    | 2                   | 10                      |
| SHOWER - GANG  | -    | -                   | -                       |
| SINK - BAR   | -    | -                   | -                       |
| SINK - BREAK ROOM  | 1    | 2                   | 2                       |
| SINK - CLASS ROOM  | -    | -                   | -                       |
| SINK - CUSTODIAL   | -    | -                   | -                       |
| SINK - EXAM ROOM   | -    | -                   | -                       |
| SINK - DENTAL UNIT   | -    | -                   | -                       |
| SINK - KITCHEN - COMMERCIAL  | -    | -                   | -                       |
| SINK - LABORATORY ROOM   | -    | -                   | -                       |
| SINK - LOUNGE ROOM   | -    | -                   | -                       |
| SINK - SCRUB   | -    | -                   | -                       |
| SINK - SCULLERY  | 1    | 2                   | 2                       |
| SINK - SHAMPOO   | -    | -                   | -                       |
| SINK - STERILIZATION   | -    | -                   | -                       |
| SINK - UTILITY   | -    | -                   | -                       |
| STERILIZER   | -    | -                   | -                       |
| TRENCH DRAIN   | -    | -                   | -                       |
| URINAL - 3/4" OR 1" SUPPLY   | -    | -                   | -                       |
| WASHING MACHINE - RESIDENTIAL GRADE  | -    | -                   | -                       |
| WASHING MACHINE - (8LBS)   | -    | -                   | -                       |
| WASHING MACHINE - (15LBS)  | -    | -                   | -                       |
| WATER CLOSET - FLUSH VALVE - PRIVATE   | -    | -                   | -                       |
| WATER CLOSET - FLUSH TANK - PRIVATE  | 5    | 4                   | 20                      |
| WATER CLOSET - FLUSH VALVE - PUBLIC  | -    | -                   | -                       |
| WATER CLOSET - FLUSH TANK - PUBLIC   | -    | -                   | -                       |
| TOTAL FIXTURE UNITS  |      |                     | 57.5                    |
| SELECTED PIPE SIZE:  |      | 4                   | (INCH)                  |
| PIPE SLOPE:  |      | 1/8                 | INCHES/FT               |
| NOTES:<br>(1) FIXTURE UNITS, AND PIPE SIZE ARE CALCULATED PER NCBC - PLUMBING, 2018 EDITION<br>(2) PIPING SIZED PER TABLE 709.1, TABLE 709.2, TABLE 710.1(1), AND TABLE 710.1(2), NCBC - PLUMBING, 2018 EDITION. |      |                     |                         |



REVISIONS

PROJECT STATUS  
CONSTRUCTION DOCUMENTS  
OWNER ID  
20-22411-02A

Finch & Associates  
309 North Boylan Avenue  
Raleigh, NC 27603-1402  
T 919 | 833-1212  
F 919 | 834-3203  
NCBELS Lic. No. P-1845  
NCBOL1 Lic. No. C-656

Finch & Associates  
engineering landscape architecture and surveying

SCO ID#: 20-22411-02A Construction Documents For Bid

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

DRAWN SES  
CHECKED JRQ  
PROJECT NO. 20061  
DATE 7/27/2025  
PLUMBING SCHEDULES  
SHEET NO. P-101





3 SHOWER HOUSE - MECHANICAL ROOM SECTION  
PS-201 SCALE: 1/2" = 1'-0"



PS-201

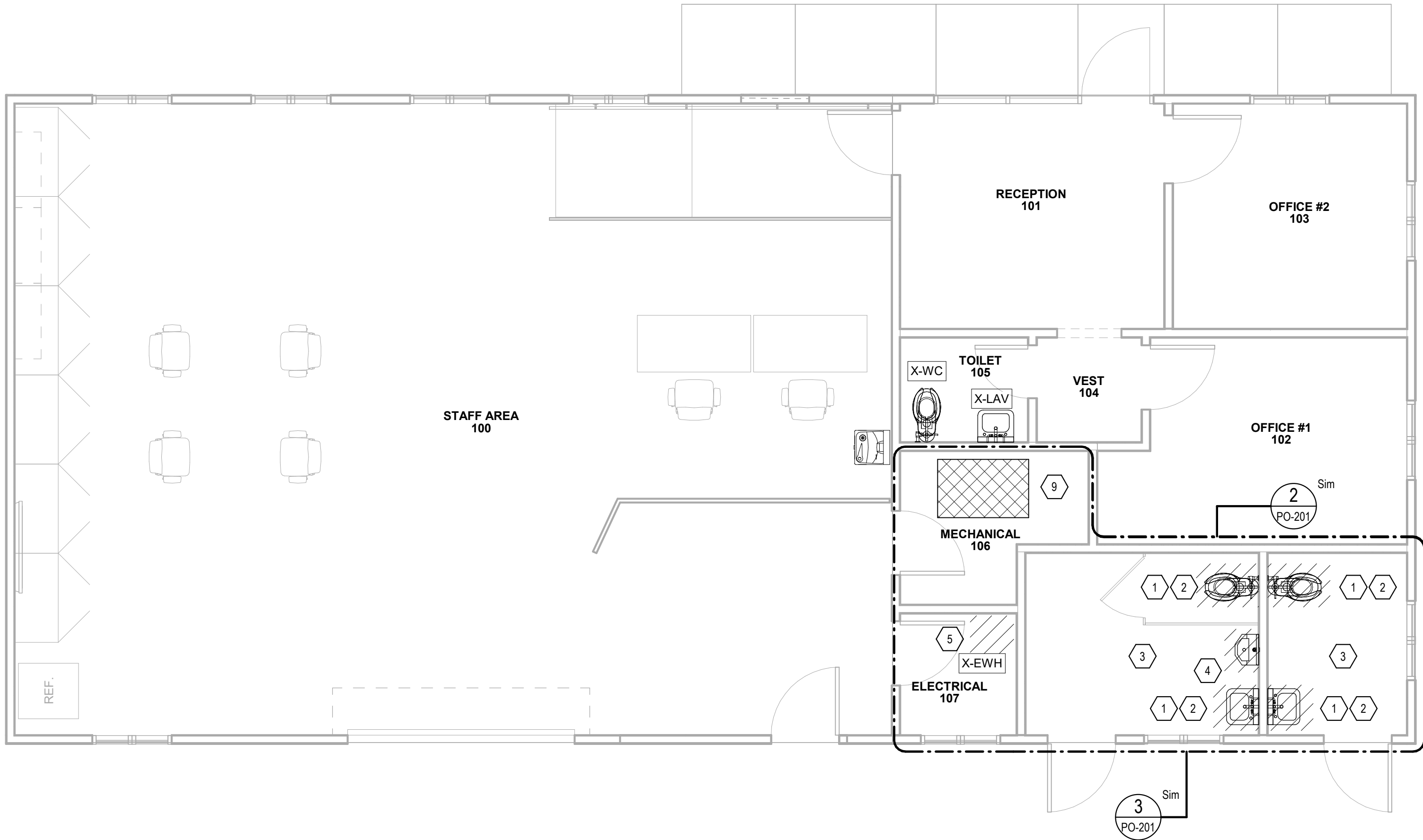
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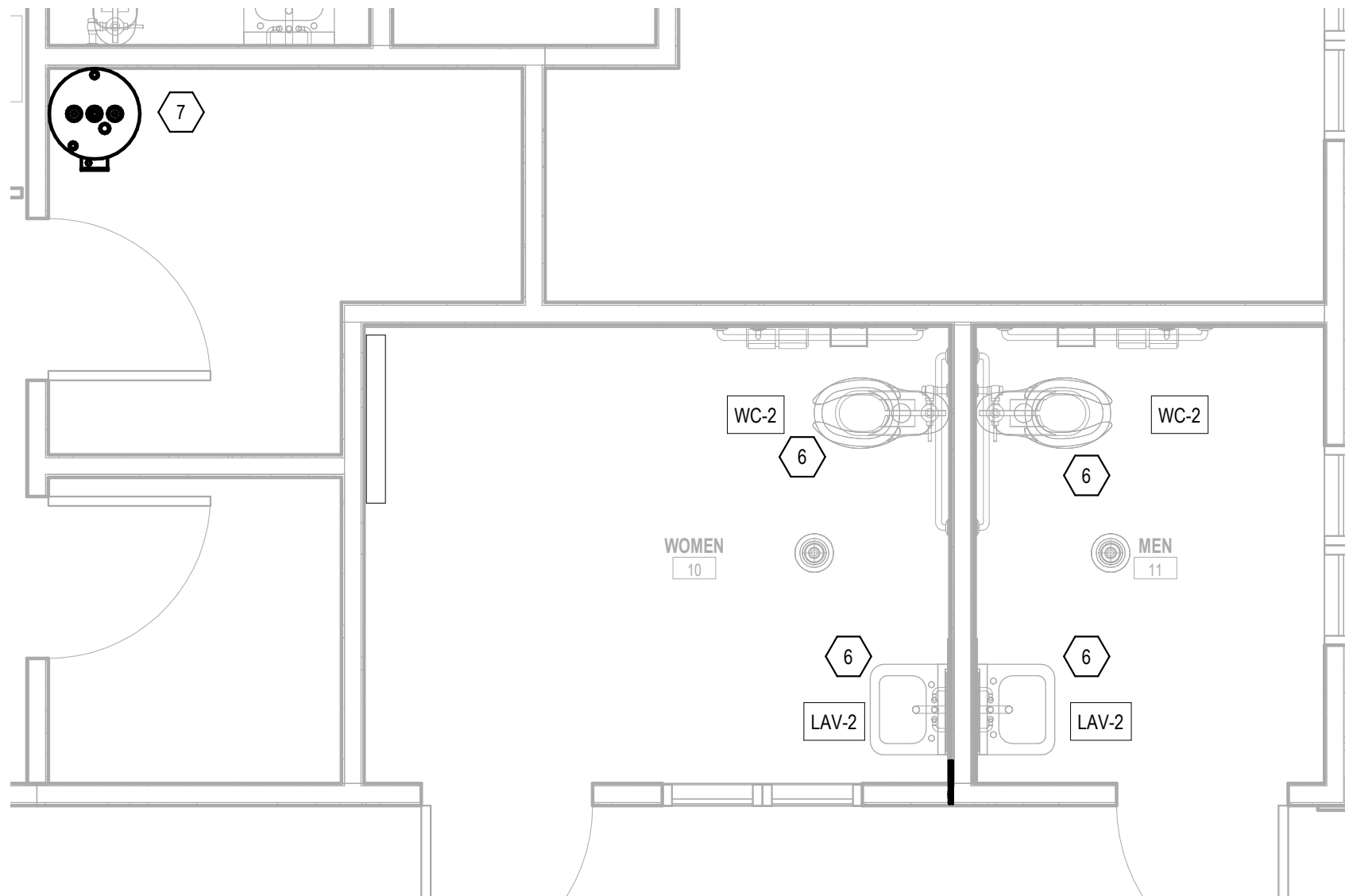
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KEYED NOTES:

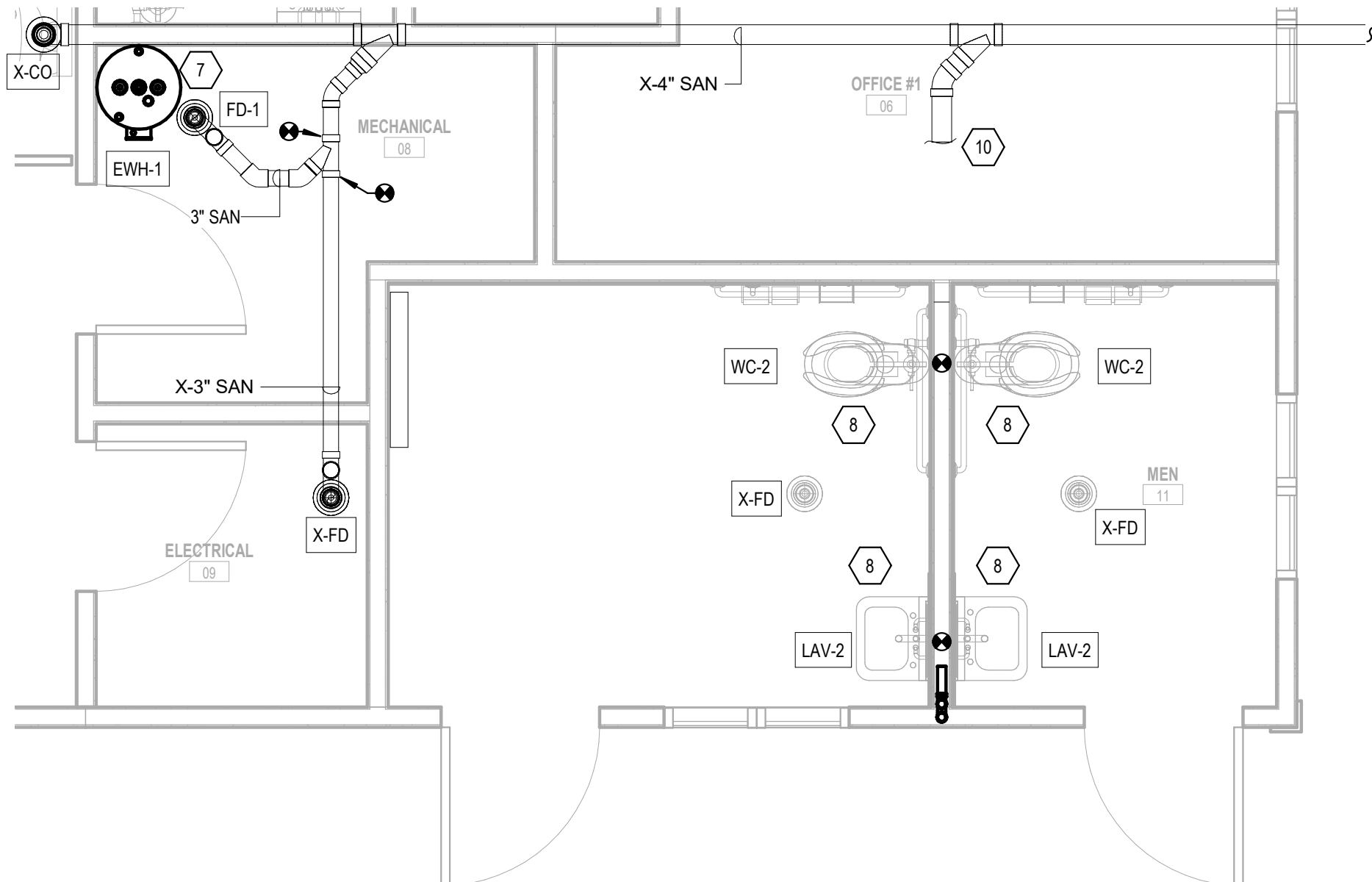
- 1 SITE CLEAR EXISTING WATER CLOSET AND LAVATORY. CAP DOMESTIC WATER PIPING AT WALL FOR RECONNECTION OF NEW PLUMBING FIXTURES DURING NEW WORK PHASE.
- 2 CONTRACTOR SHALL PROVIDE TEMPORARY CAP FOR WATER CLOSET AND LAVATORY WASTE PIPING TO PREVENT FOREIGN OBJECTS FROM BEING PLACED IN PIPING PRIOR TO INSTALLATION OF NEW PLUMBING FIXTURES.
- 3 KEY NOTE #1 AND KEY NOTE #2 APPLY TO ALTERNATE #1 (PO-201).
- 4 SITE CLEAR EXISTING URINAL. CAP OF DOMESTIC WATER AND SANITARY SEWER PIPING IN WALL. REFER TO ARCH DRAWINGS.
- 5 SITE CLEAR EXISTING ELECTRIC WATER HEATER; DEMO DOMESTIC COLD AND HOT WATER PIPING BACK ABOVE CEILING AND TEMPORARILY CAP FOR RESUSE IN NEW WORK PHASE.
- 6 RECONNECT NEW WATER CLOSETS AND NEW LAVATORIES TO EXISTING DOMESTIC COLD AND HOT WATER PIPING SYSTEMS.
- 7 RELOCATE NEW ELECTRIC WATER HEATER (EWH-1) TO MECHANICAL ROOM 106 FROM ELECTRICAL ROOM 107 WHICH WAS THE LOCATION OF DEMOED UNIT. CONTRACTOR SHALL INSTALL NEW PIPING TO RECONNECT TO EXISTING DOMESTIC WATER SYSTEM PIPING ABOVE CEILING WHERE CAPPED DURING DEMOLITION PHASE. ROUTE T&P DRAIN PIPING TO NEW FLOOR DRAIN ADJACENT TO WATER HEATER (SEE PLANS).
- 8 RECONNECT NEW WATER CLOSETS AND NEW LAVATORIES TO EXISTING WASTE & VENT PIPING SYSTEM.
- 9 CONTRACTOR SHALL DEMO AND SAW CUT FLOOR AT LOCATION INDICATED FOR NEW PLUMBING UNDERSLAB.
- 10 FIELD VERIFY EXISTING SANITARY SEWER PIPING. REFER TO KEY NOTE # 9 (PO-201).



1 OFFICE - DEMOLITION PLAN - ALTERNATE #1  
PO-201 SCALE: 1/4" = 1'-0"



2 OFFICE - DOMESTIC WATER PLAN - ALTERNATE #1  
PO-201 SCALE: 3/8" = 1'-0"



3 OFFICE - WASTE & VENT PLAN - ALTERNATE #1  
PO-201 SCALE: 3/8" = 1'-0"



SCO ID#: 20-22411-02A Construction Documents For Bid

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

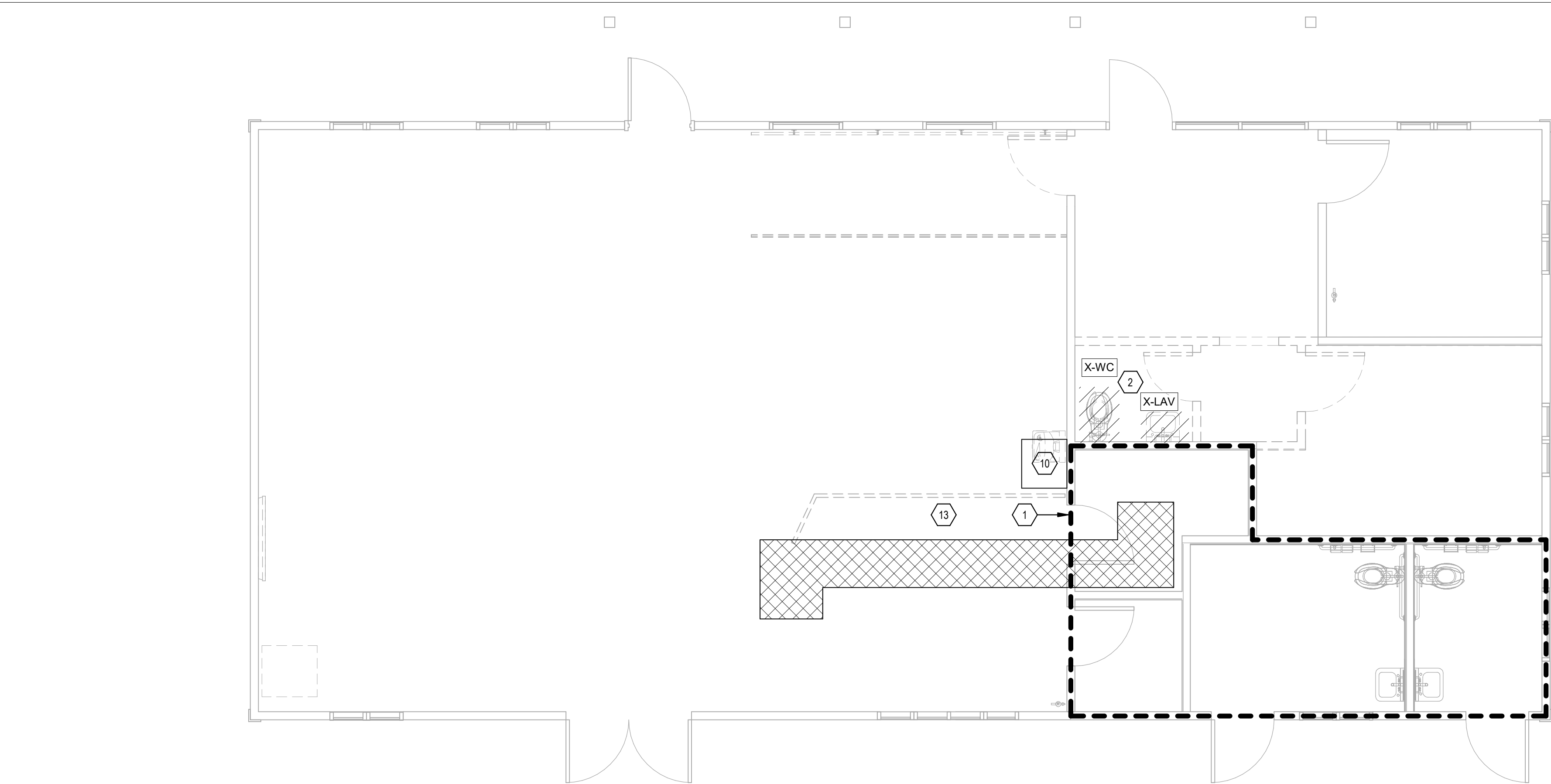
|  |                        |
|--|------------------------|
| REVISIONS  |                        |
| PROJECT STATUS   | CONSTRUCTION DOCUMENTS |
| OWNER ID   | 20-22411-02A           |
| Finch & Associates<br>309 North Boylan Avenue<br>Raleigh, NC 27603-1402<br>T 919   833-1212<br>F 919   834-3203<br>NCBELS Lic. No. P-1845<br>NCBOL1 Lic. No. C-656 |                        |



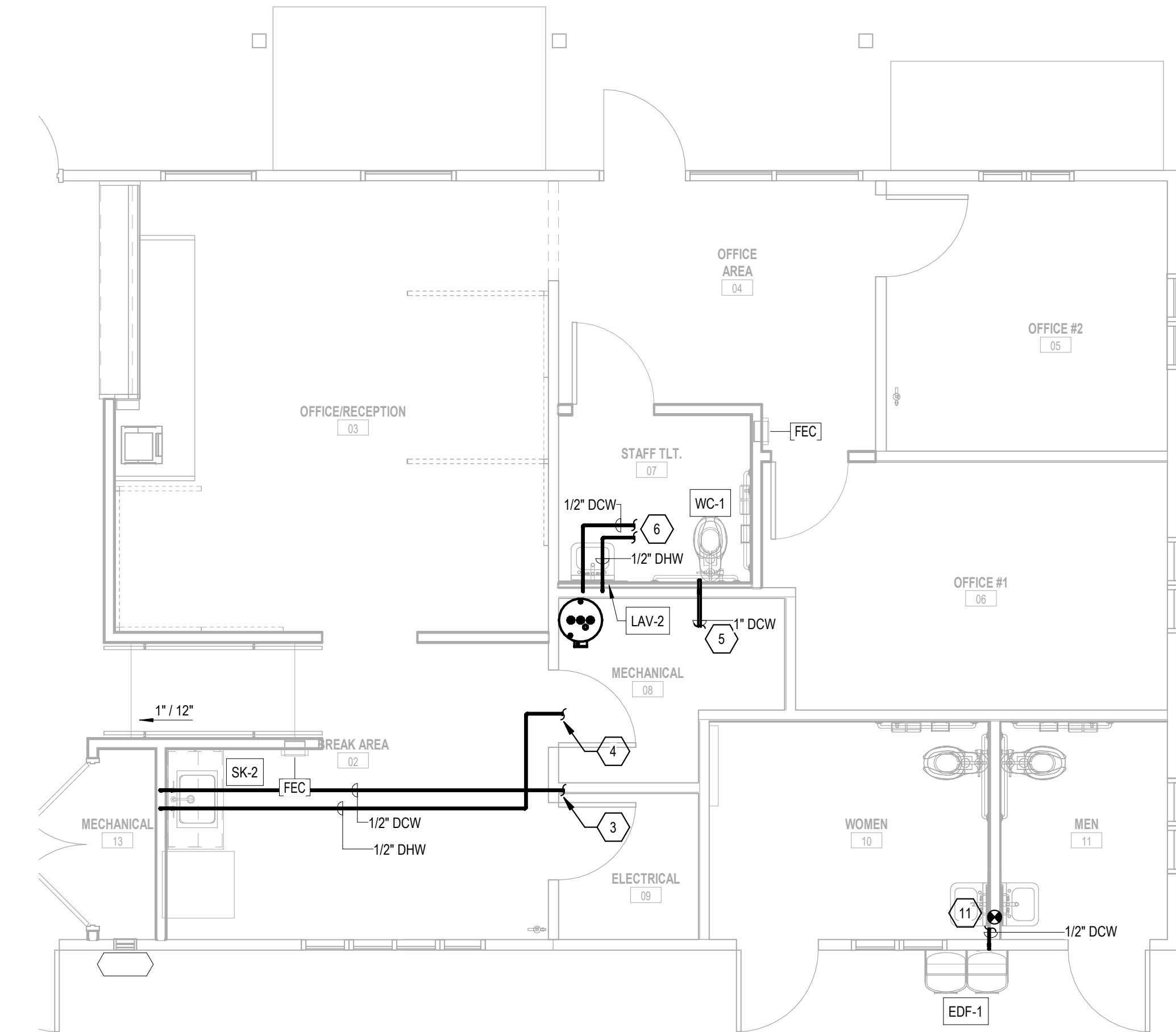
|                              |           |
|------------------------------|-----------|
| DRAWN                        | SES       |
| CHECKED                      | JRQ       |
| PROJECT NO.                  | 20061     |
| DATE                         | 7/27/2025 |
| PLUMBING PLAN - ALTERNATE #1 |           |
| SHEET NO.                    | PO-201    |



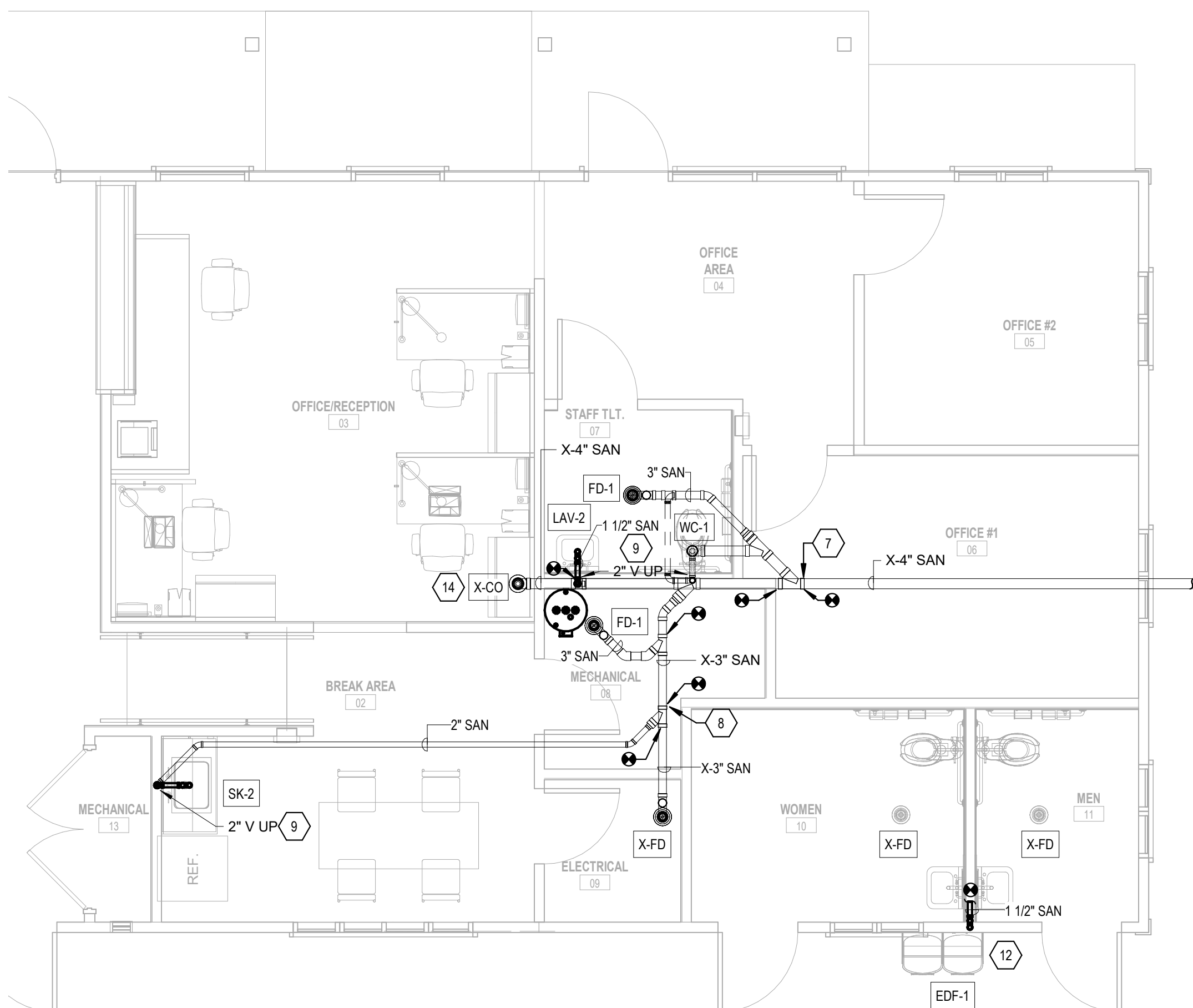
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3 OFFICE - PLUMBING DEMOLITION PLAN - ALTERNATE #2  
PO-202 SCALE: 1/4" = 1'-0"



1 OFFICE - DOMESTIC WATER PLAN - ALTERNATE #2  
PO-202 SCALE: 1/4" = 1'-0"



2 OFFICE - WASTE & VENT PLAN - ALTERNATE #2  
PO-202 SCALE: 1/4" = 1'-0"

#### KEYED NOTES:

- 1 WORK IN THE FOLLOWING AREAS FALL UNDER ALTERNATE #1: MECHANICAL 08, ELECTRICAL 09, WOMEN 10, MEN 11 AND RESTROOM ENTRANCE AREA.
- 2 SITE CLEAR EXISTING WATER CLOSET AND LAVATORY. DEMO DOMESTIC WATER PIPING BACK ABOVE CEILING AND TEMPORARILY CAP FOR REUSE IN NEW WORK PHASE. DEMO WASTE PIPING BACK BELOW SLAB TO MAIN AND CAP. PATCH SLAB AND MATCH EXISTING. DEMO VENT PIPING BACK TO MAIN ABOVE CEILING AND TEMPORARILY CAP FOR REUSE IN NEW WORK PHASE.
- 3 CONNECT NEW 1/2\"/>

#### REVISIONS

PROJECT STATUS  
CONSTRUCTION  
DOCUMENTS

OWNER ID  
20-22411-02A

Finch & Associates  
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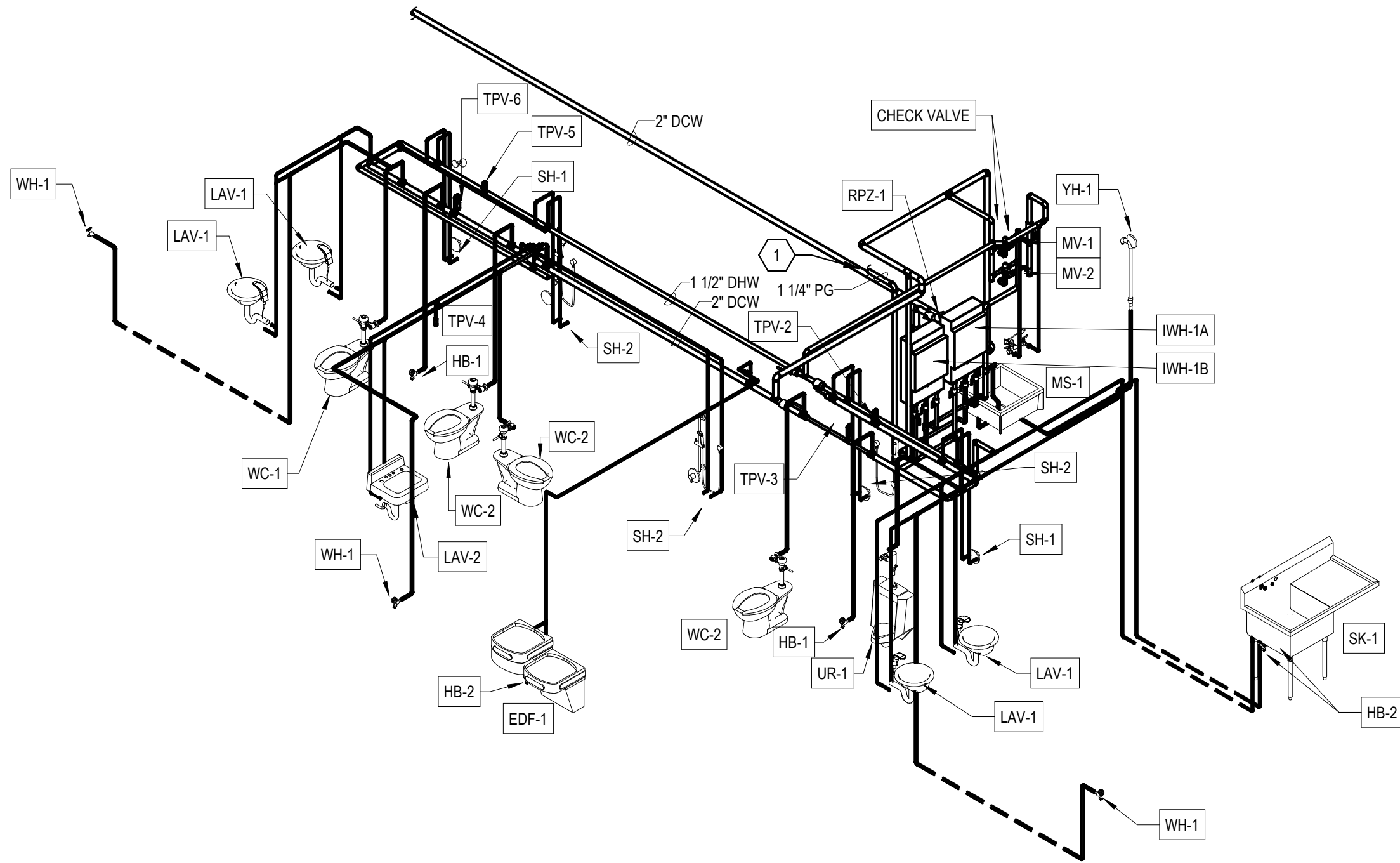


SCO ID#: 20-22411-02A Construction Documents For Bid

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

DRAWN SES  
CHECKED JRQ  
PROJECT NO. 20061  
DATE 7/27/2025  
PLUMBING PLAN -  
ALTERNATE #2  
SHEET NO.  
PO-202

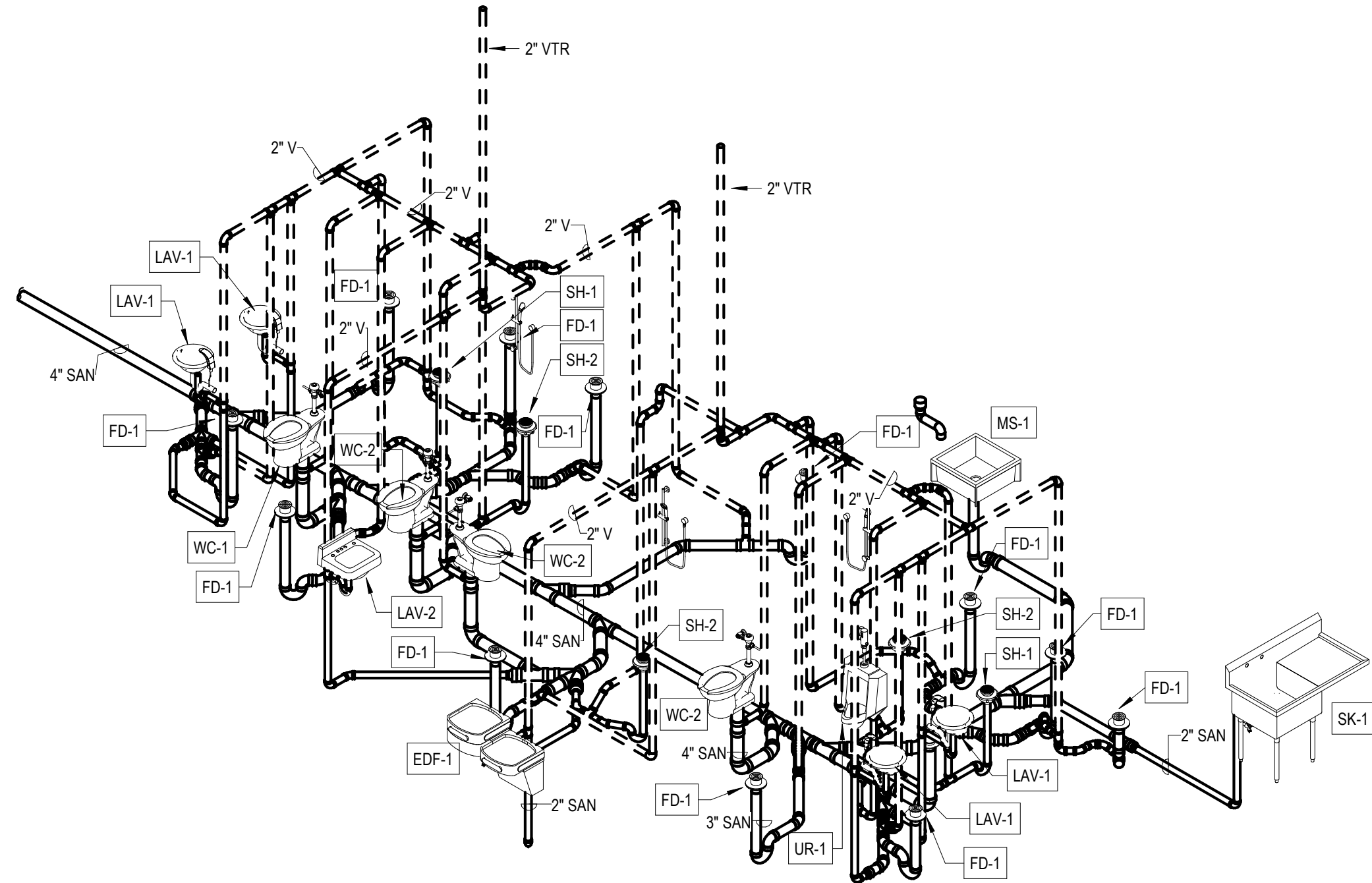




1 DOMESTIC WATER RISER DIAGRAM  
PS-300 SCALE:

KEY NOTES:

- 1 SEE MECHANICAL PLANS FOR PROPANE GAS PIPING CONTINUATION.



2 WASTE & VENT RISER DIAGRAM  
PS-300 SCALE:

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DRAWN SES  
CHECKED JRQ  
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PLUMBING RISER  
DIAGRAMS - SHOWER  
HOUSE

SHEET NO. PS-300

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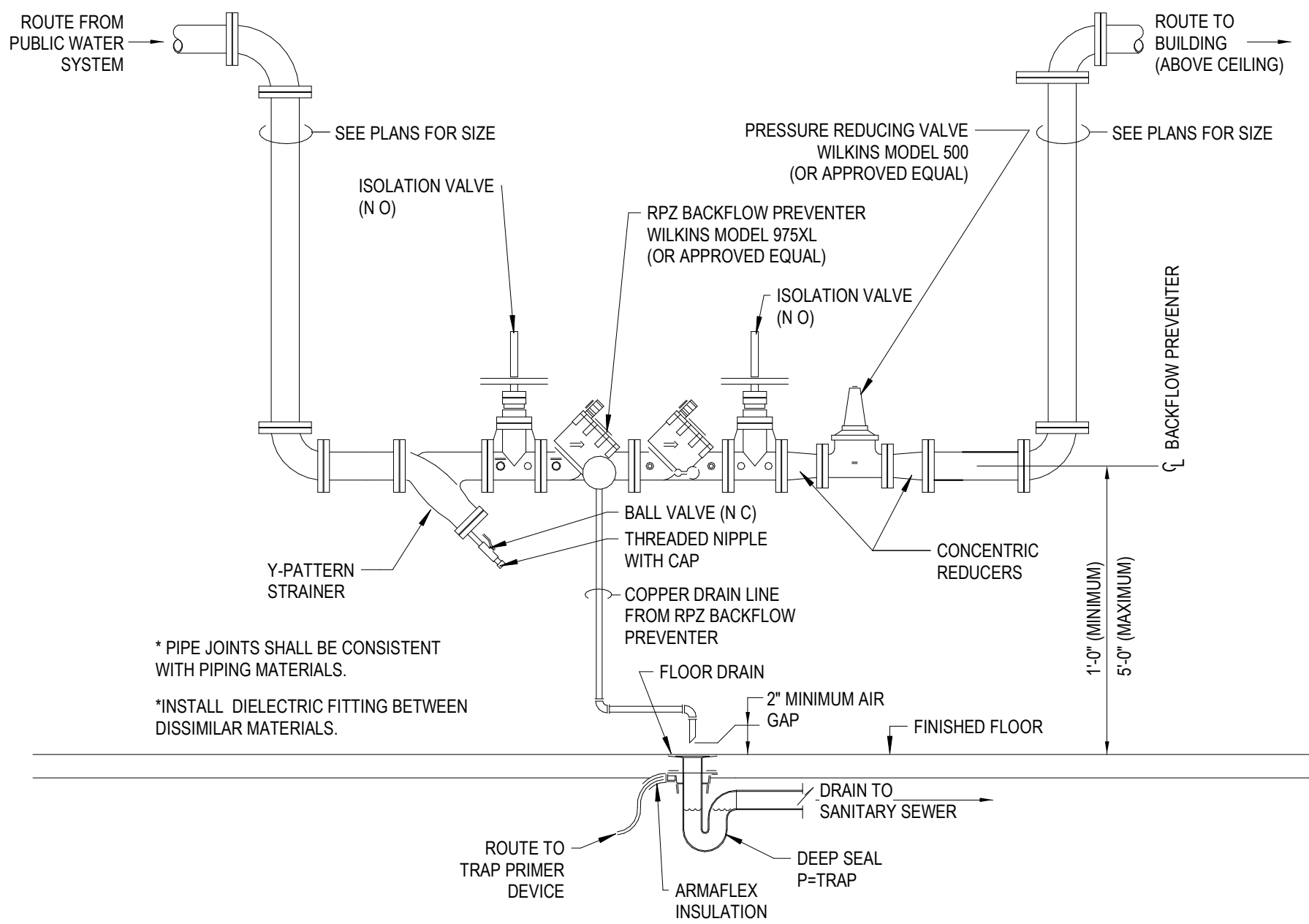
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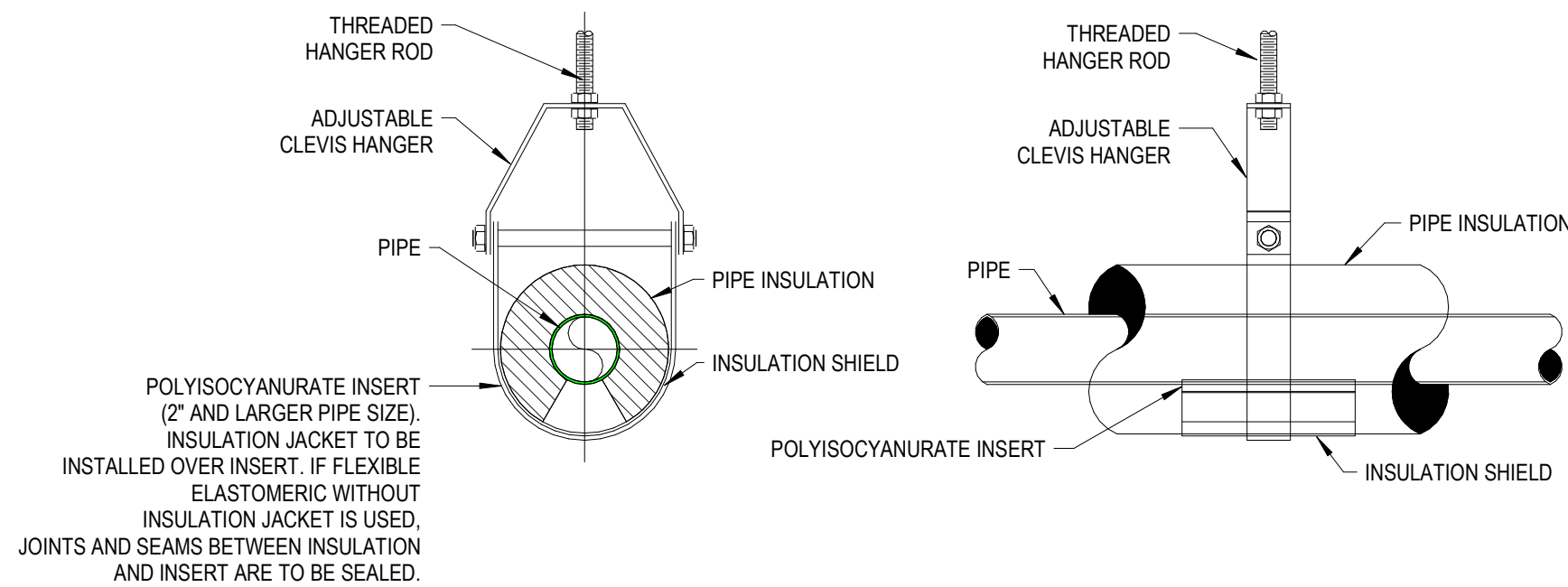


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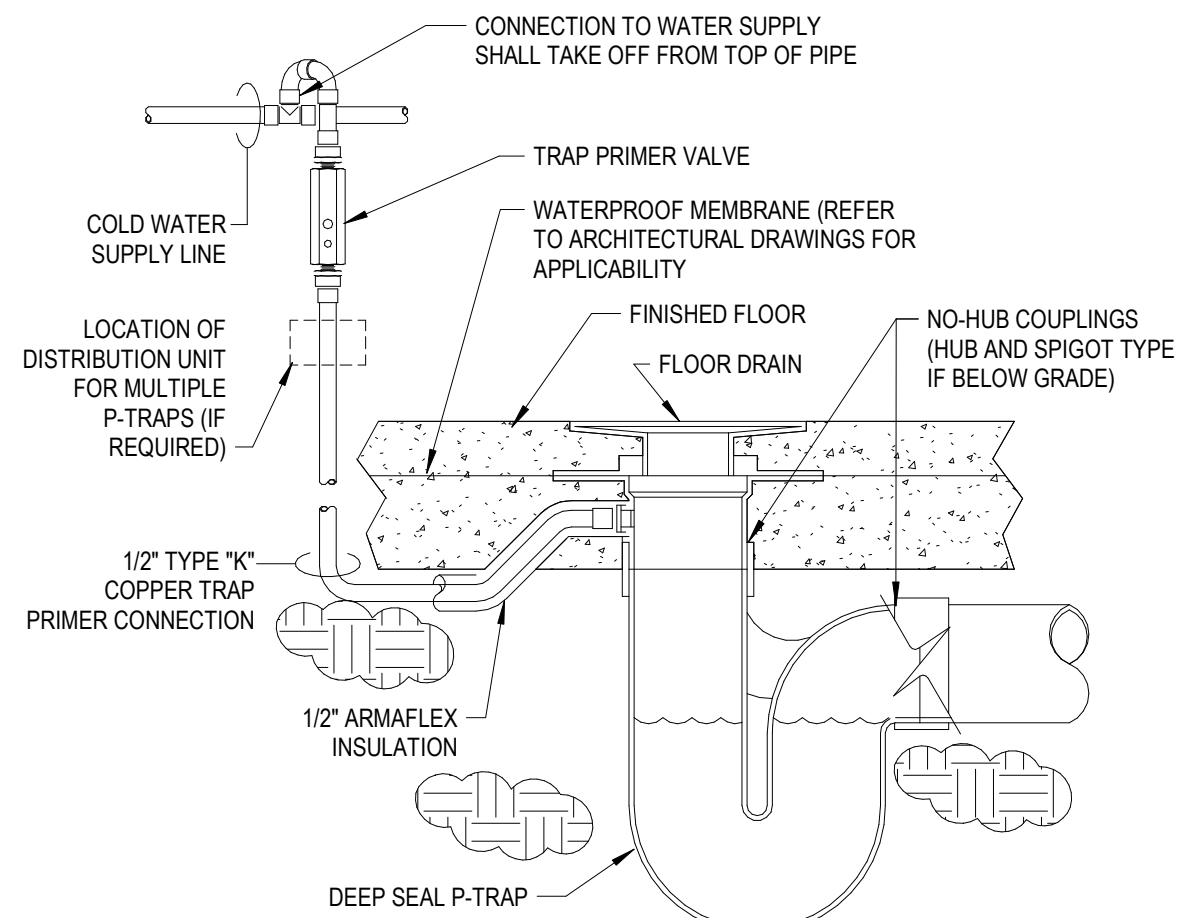
### 1 REDUCE PRESSURE BACKFLOW PREVENTER DETAIL

P-400 SCALE: NOT TO SCALE



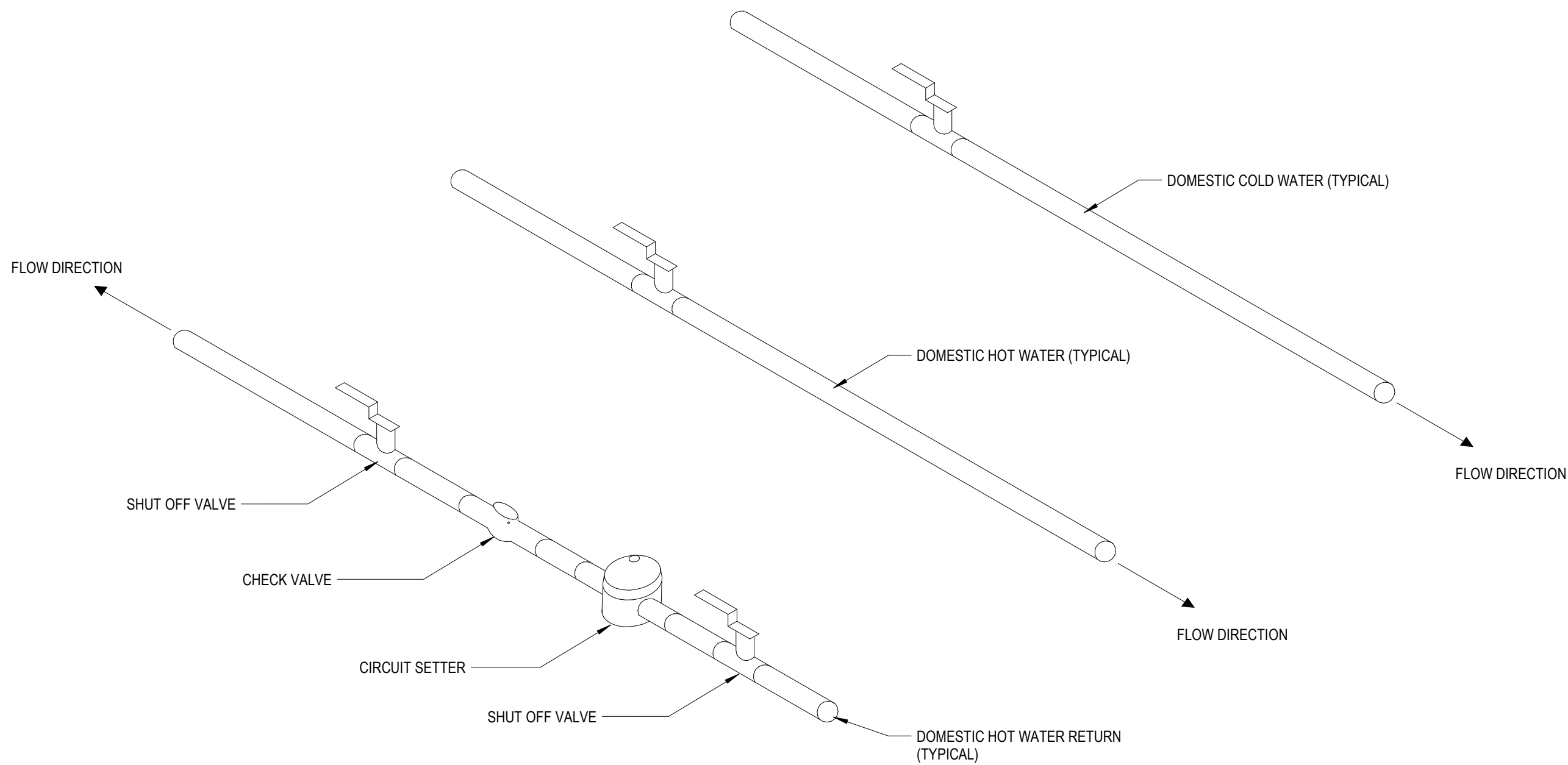
### 3 CLEVIS PIPE HANGER

P-400 SCALE: NOT TO SCALE



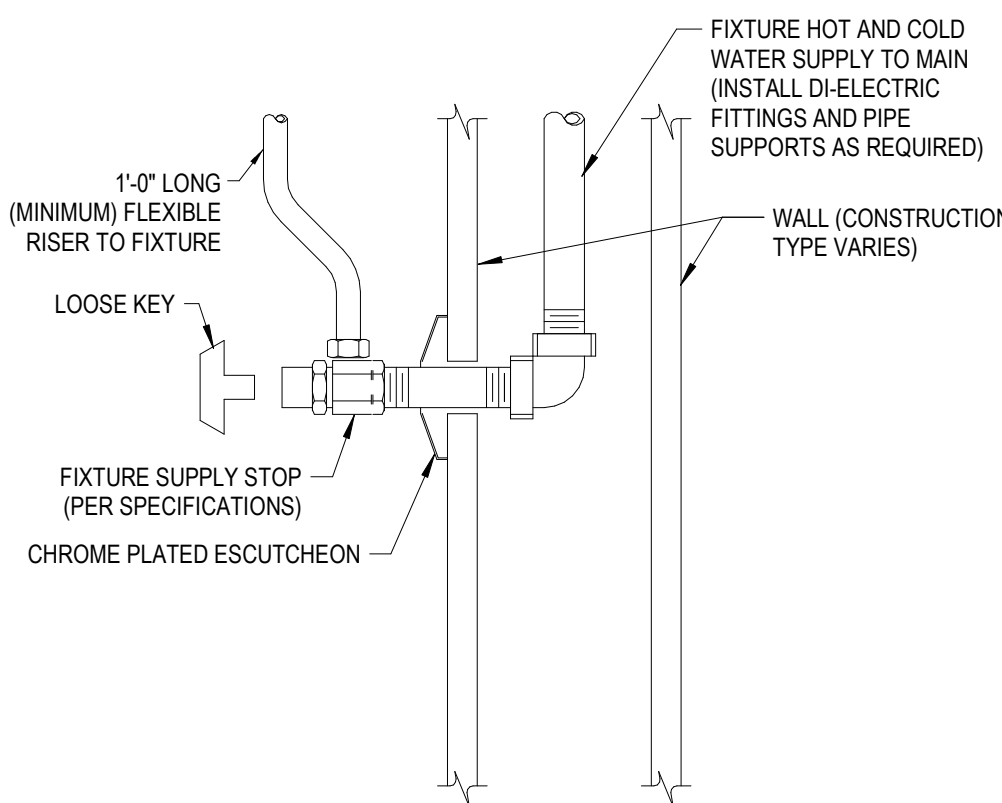
### 6 FLOOR DRAIN W/TRAP PRIMER

P-400 SCALE: NOT TO SCALE



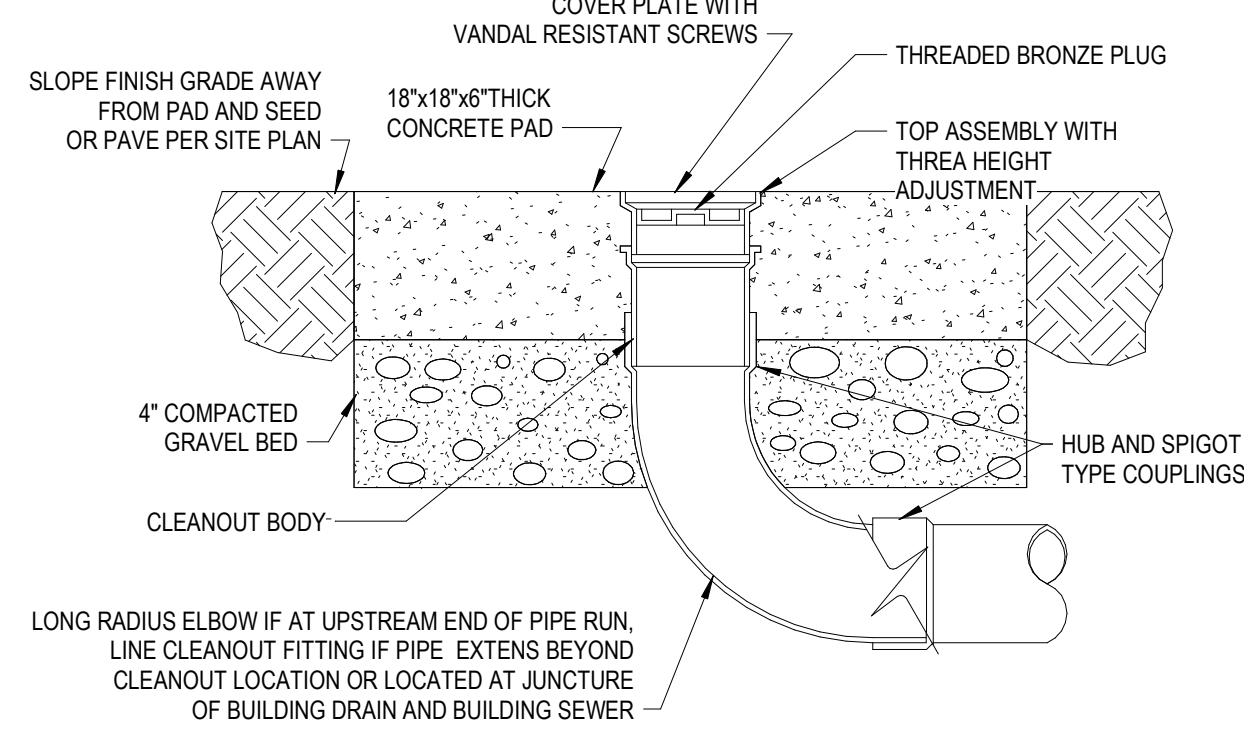
### 2 BRANCH CONNECTION DETAIL

P-400 SCALE: 12" = 1'-0"



### 4 BELOW SINK SYSTEM DRAIN

P-400 SCALE: NOT TO SCALE



### 5 EXTERIOR CLEANOUT

P-400 SCALE: NOT TO SCALE



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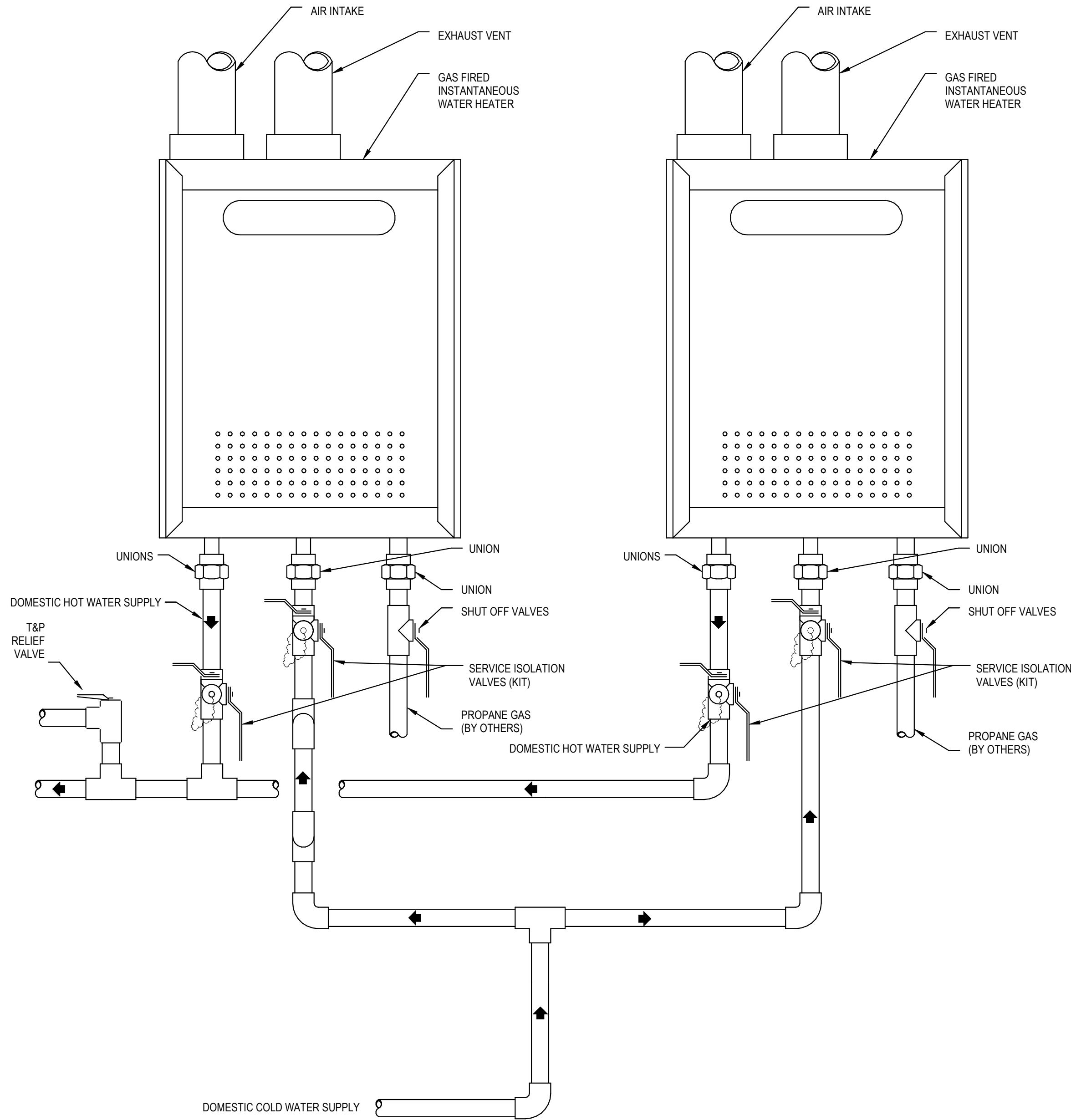
PLUMBING DETAILS

SHEET NO.

P-400

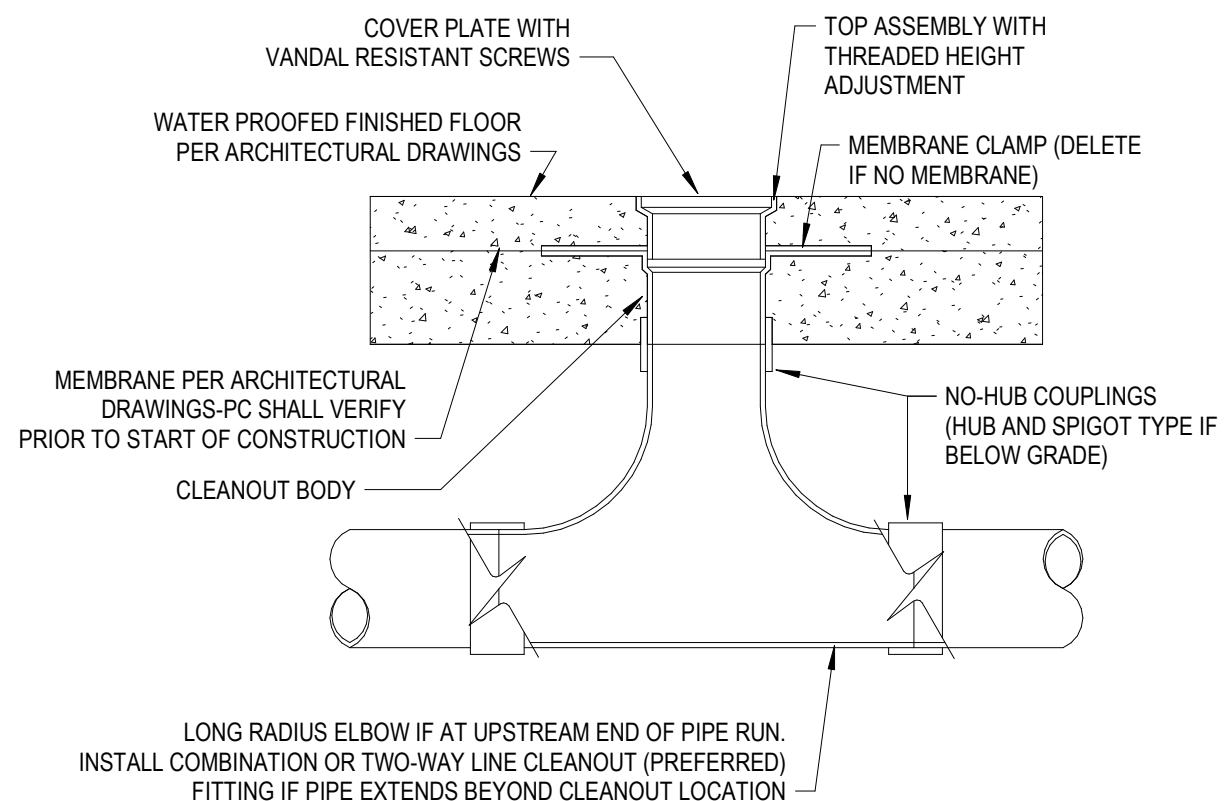


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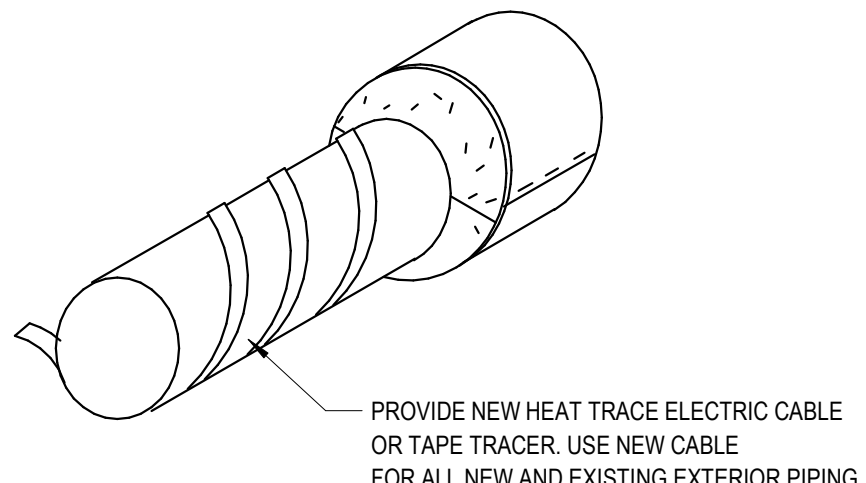


1 TYPICAL - INSTANTANEOUS WATER HEATER - GAS (PROPANE)  
P-401 SCALE: NOT TO SCALE

NOTE: INSTALL INSTANTANEOUS WATER HEATER PER MANUFACTURER'S RECOMMENDATIONS, N.C. PLUMBING CODE AND N.C. MECHANICAL CODE AS REQUIRED.

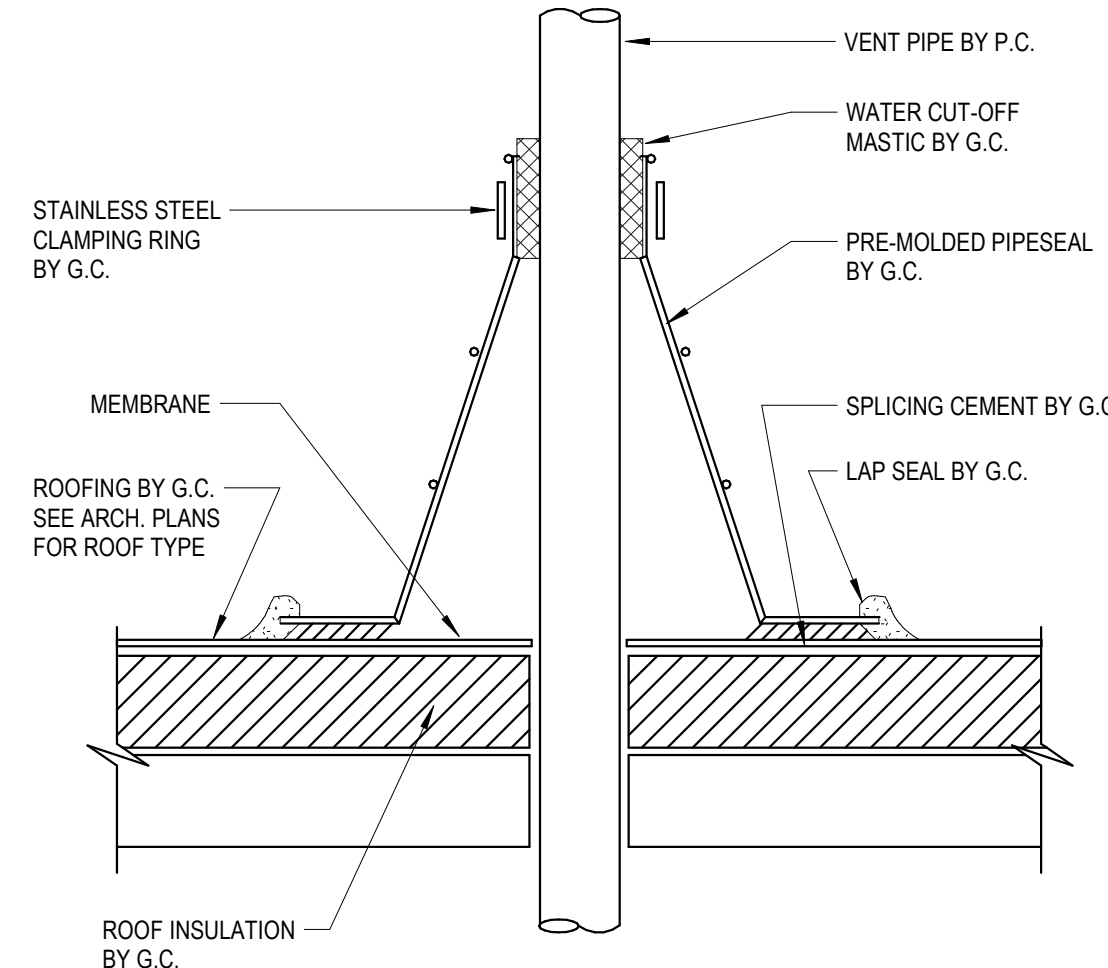


4 INTERIOR CLEANOUT  
P-401 SCALE: NOT TO SCALE



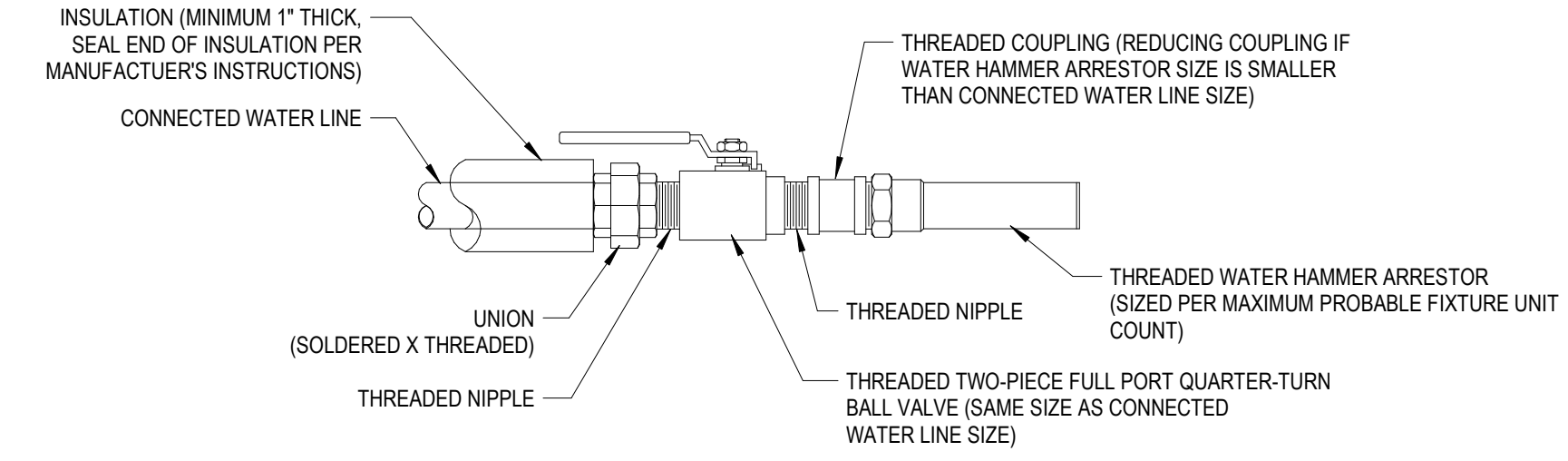
5 HEAT TRACE  
P-401 SCALE: NOT TO SCALE

- NOTES:
1. SECURE ELECTRIC CABLE OR TAPE TRACING TO PIPE PER MFG'S INSTRUCTIONS
  2. PROVIDE INSULATION AND JACKETING FOR OUTDOOR APPLICATION
  3. PROVIDE PENN 19ABC 0-100 DEG. THERMOSTAT WITH ADJUSTABLE DIFFERENTIAL AND MINIMUM OF 10 FT. CAPILLARY AND B-BULB.
  4. MOUNT B-BULB ON CWR PIPE OUTSIDE OF BUILDING PRIOR TO INSTALLATION OF INSULATION. FOLLOW MFR. RECOMMENDATIONS FOR INSTALLATION OF B-BULB.
  4. MOUNT THERMOSTAT ON EXTERIOR WALL IN LOCATION SHOWN ON PLAN. PROVIDE NEMA 3R TYPE CONTROL BOX. SET FOR 35 DEG. F FOR ENERGIZING OF HEAT TAPE, WITH A 2 DEG. DIFFERENTIAL.



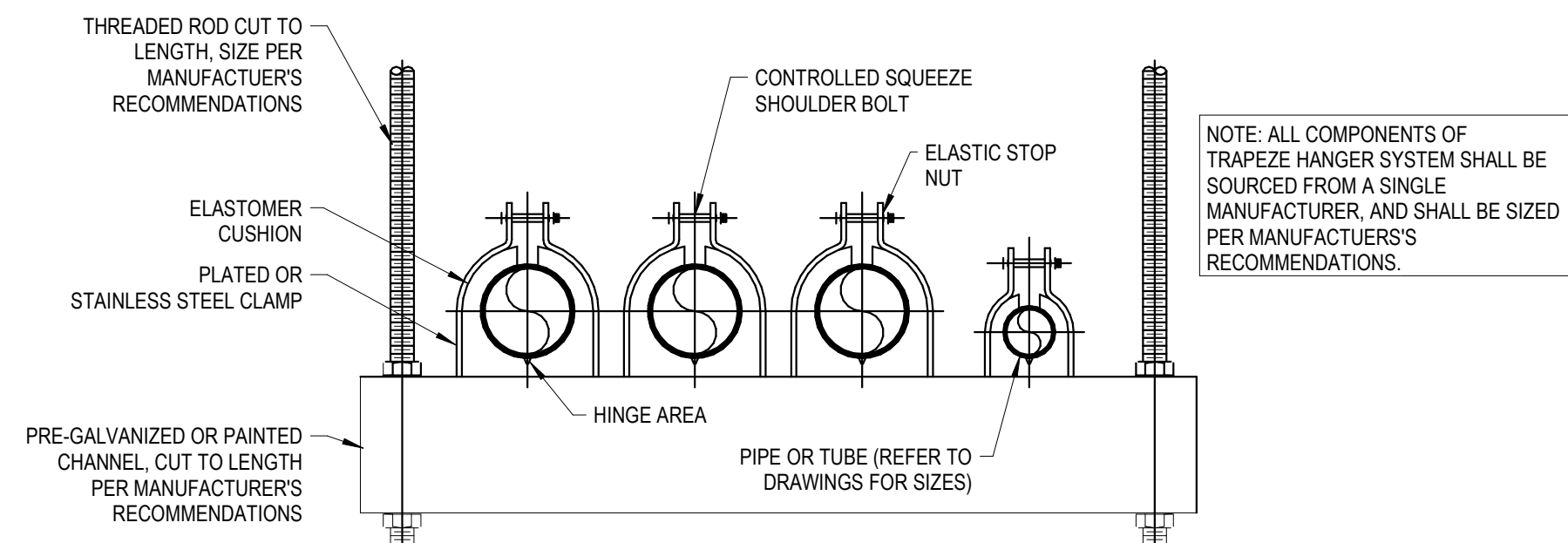
- NOTES:
1. PRE-MOLDED PIPE SEAL SHALL BE PROVIDED BY P.C. P.C. SHALL VERIFY EXACT SIZE AND LOCATION WITH G.C.
  2. ALL WOTK AND MATERILA NOT NOTED BY G.C. SHALL BE PROVIDED BY P.C.

2 VENT THROUGH ROOF  
P-401 SCALE: NOT TO SCALE



NOTE: INSTALL ACCEPTABLE MEANS OF PIPE SUPPORTS MAXIMUM OF 1'-6" FROM CENTERLINE OF BALL VALVE

3 WATER HAMMER ARRESTOR  
P-401 SCALE: NOT TO SCALE



6 TRAPEZE HANGER  
P-401 SCALE: NOT TO SCALE

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|                  |           |
|------------------|-----------|
| DRAWN            | SES       |
| CHECKED          | JRQ       |
| PROJECT NO.      | 20061     |
| DATE             | 7/27/2025 |
| PLUMBING DETAILS |           |
| SHEET NO.        | P-401     |

|  |
|--|
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| PROJECT STATUS<br>CONSTRUCTION DOCUMENTS   |
| OWNER ID<br>20-22411-02A   |
| Finch & Associates<br>309 North Boylan Avenue<br>Raleigh, NC 27603-1402<br>T 919   833-1212<br>F 919   834-3203<br>NCBELS Lic. No. P-1845<br>NCBCL1 Lic. No. C-656 |

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