

VAULT INSTALLATION INSTRUCTIONS

Receiving the Vault

Upon arrival of vault, check both interior and exterior for shipping damage. Report any damage found to the freight carrier immediately. If vault is free of damage, proceed with installation. If equipment vault is not to be installed immediately, store in a covered area safe from flooding.

Excavation

Excavate as required and pour a flat ballast slab of size indicated on the drawing. Ballast slab should be reinforced with grid using #4 re-bar on 12" centers. Stainless steel anchor hooks should be tied to the reinforcing grid and located as detailed.

Installing the Vault in the Excavation

Rig vault with straps, taking care not to damage housing or piping connections. Do not use chains or cables to rig vault. Lower vault onto the ballast slab and secure using the stainless steel hardware provided. If the vault is to be secured with cables, loop the stainless steel anchor cables (provided) around slab anchor hooks and through the tie-down lugs on vault. Secure cables with the connection hardware provided. Remove slack from the cables then tighten the cable clamps to the torque rating indicated on the thimble tag provided. Do not over-tighten the cables.

Safeguarding the Vault

If the vault is equipped with forced air ventilation, sump pumps, or gravity drains, these must be connected and made operational immediately. Do not allow excavation to fill with water, as this water will enter the vault through open connections and overwhelm the sump pump or drain.

Connecting the Vault

Connect all piping and conduit, as required, to connections provided on vault exterior. Do not externally load the vault connections or allow the connections to support the weight of the connected piping. If the piping is not supported properly, soil settling can result in excessive loading on the piping. This can result in broken piping and misaligned connections in the vault.

Wiring the Vault

Conduit wiring must be sealed to prevent water from entering the vault through the conduit.

Pressure Testing

Pressure test all piping connected to vault to insure there are no leaks. All equipment and piping within vault has been factory pressure tested. Do not exceed 30 PSI in pressure testing any piping connected to vault.

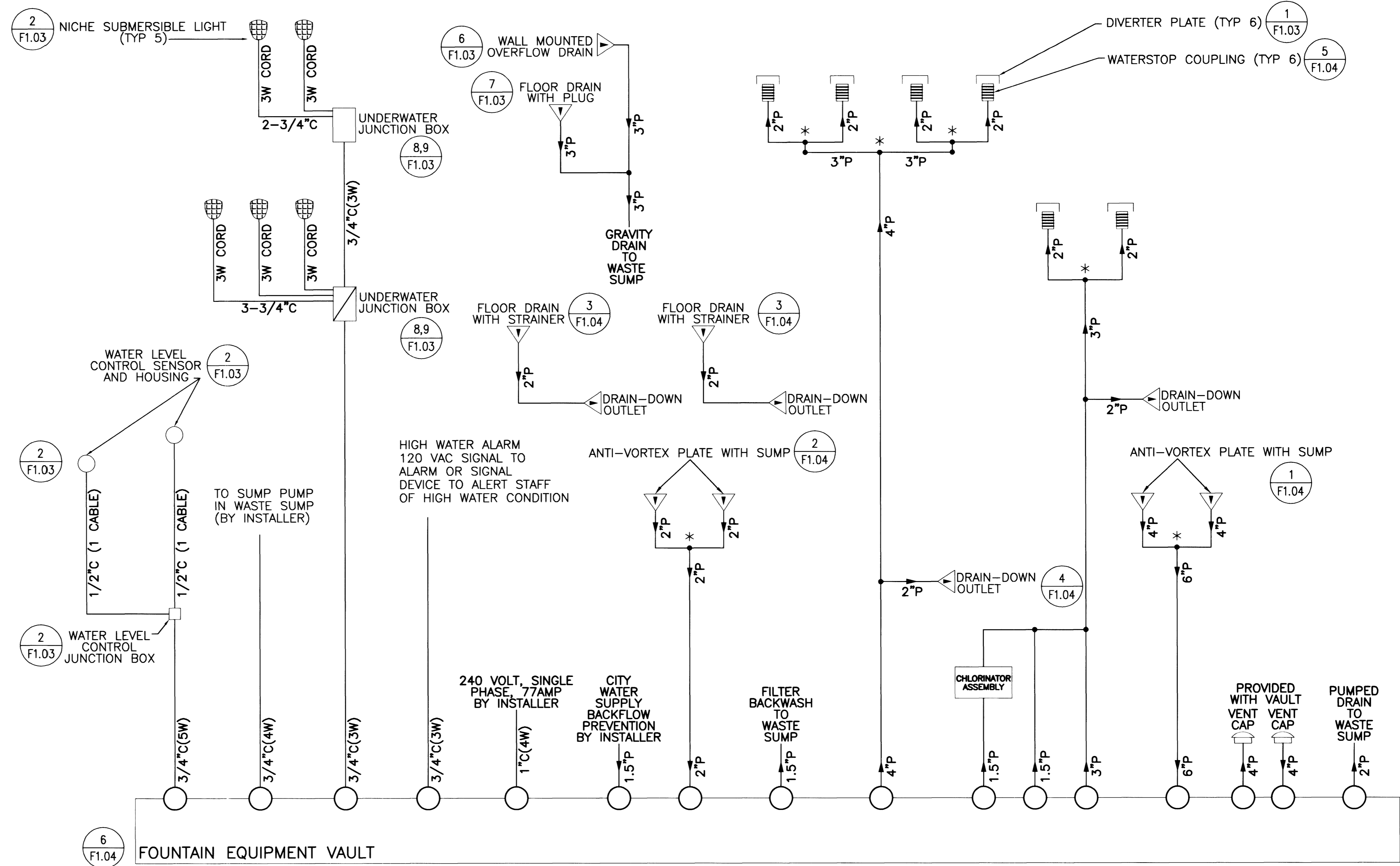
Ventilation Connections

If external vent piping is required, route it with as few bends as possible to a location safe from flooding. Length of vent piping should be as short as possible and should not exceed 20'-0". If a longer piping length is necessary, contact The Fountain People, Inc. Vent caps, if used, should be installed on ends of vent piping immediately to prevent rain or debris from entering the vent piping.

Backfilling

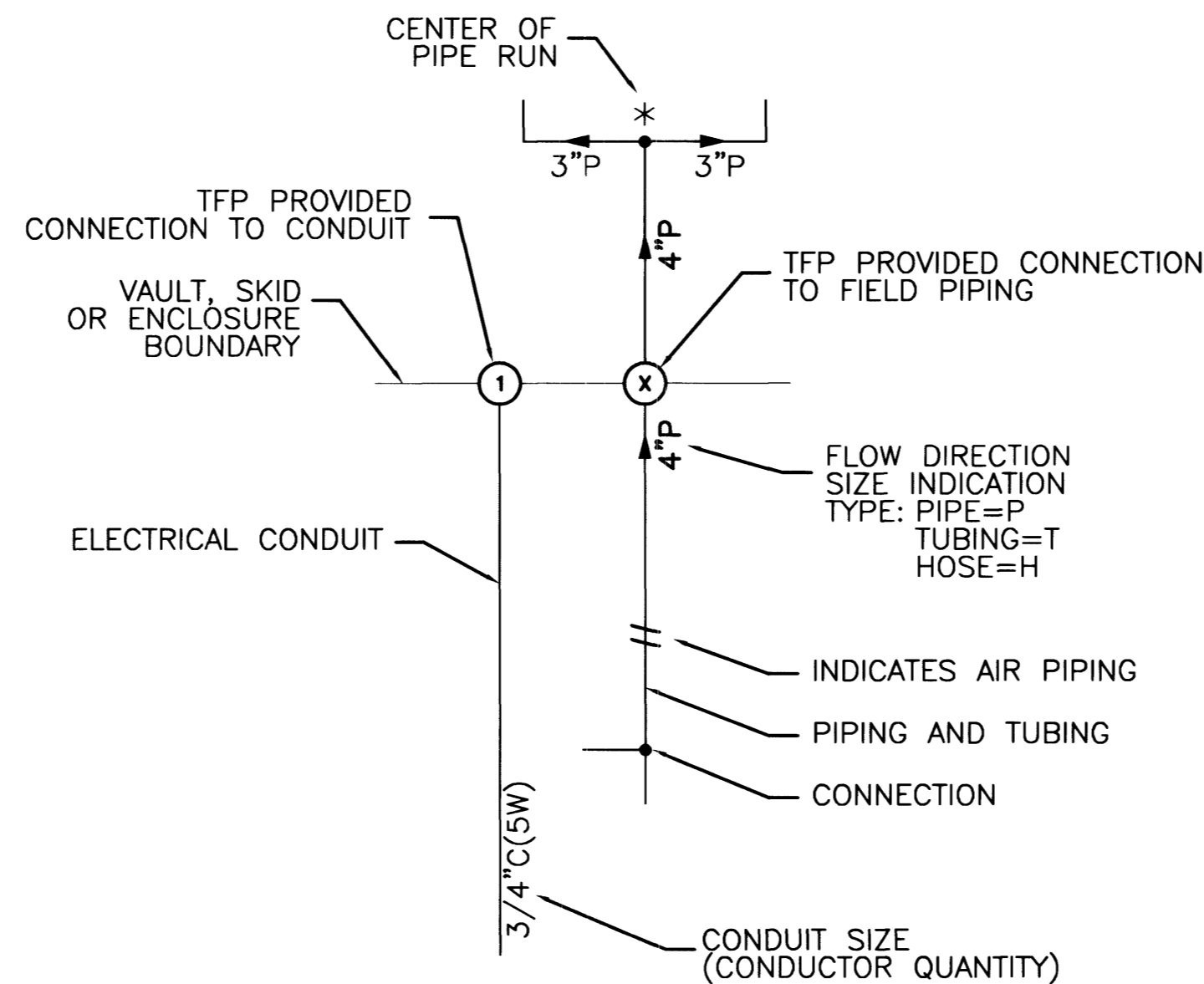
When backfilling, protect open ends of all piping to prevent backfill material from entering the piping system. Backfill material should be a rounded gravel or crushed stone (3/4" Max. and less than 5% fines). There should be at least 2'-0" of backfill material on all sides of vault between the vault and the surrounding earth. The top of the access hatch should be level with adjacent pavement (as indicated on the drawing) and located in an area that is safe from flooding. DO NOT USE SAND OR DIRT FOR BACKFILL.

FAILURE TO FOLLOW ALL THE ABOVE PROCEDURES COULD RESULT IN SERIOUS DAMAGE TO THE EQUIPMENT AND WILL VOID THE WARRANTY ON THIS PRODUCT.



NOT ALL SYMBOLS ARE USED ON EVERY PROJECT

BASIC DRAWING NOTATIONS
ALL SIZES ARE INCHES UNLESS SPECIFIED OTHERWISE



NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. REFER TO THE PROJECT PLANS AND SPECIFICATIONS FOR MORE COMPLETE DETAILS.
2. PIPE, FITTINGS, CONDUIT, WIRE, AND TUBING SHALL BE SUPPLIED BY THE FOUNTAIN CONTRACTOR.
3. CONDUIT LOCATED WITHIN THE POOL BASIN AND STUB-UPS THROUGH POOL FLOOR INTO THE BASIN SHALL BE RED BRASS.
4. INSTALL ONLY STRANDED TYPE COPPER CONDUCTORS WITH WATERPROOF INSULATION BETWEEN UNDERWATER JUNCTION BOXES AND FOUNTAIN CONTROL PANEL. SOLID COPPER CONDUCTORS SHALL NOT BE PERMITTED. CONTRACTOR SHALL SIZE WIRE BASED UPON CONDUIT RUNS AND CODE REQUIREMENTS.
5. REFER TO WIRING DIAGRAMS FOR CONDUCTOR QUALITY AND CONNECTION INFORMATION.
6. UNDERWATER JUNCTION BOXES LOCATED INSIDE OR OUT OF THE FOUNTAIN BASIN AND BELOW WATER LEVEL, SHALL BE TOTALLY ENCAPSULATED IN AN APPROVED POTTING COMPOUND.
7. SYMBOL "*" INDICATES THAT THE TEE MUST BE PLACED IN THE CENTER OF THE PIPING RUN TO ENSURE BALANCE.
8. MAKE PIPING SLOPE TO THE PUMP FOR DRAINAGE. IF PIPING CANNOT BE SLOPED TO PUMP, MAKE PROVISIONS FOR COMPLETE DRAINING OF EACH PIPE LINE CONNECTING MINIMUM A 1-1/2" DRAIN LINE AND VALVE TO LOWEST POINT IN PIPE RUN.
9. MAKE PIPE RUNS AS DIRECT AS POSSIBLE USING A MINIMUM NUMBER OF FITTINGS. INSTALL PIPING STRAIGHT AND TRUE WITHOUT LOOPS OR TRAPS.
10. PUMP SUCTION PIPING SHALL BE A STRAIGHT RUN INTO THE PUMP FREE OF PIPE BENDS OR TEES FOR A MINIMUM OF TEN PIPE DIAMETERS PRECEDING THE PUMP'S SUCTION CONNECTION UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
11. COORDINATE AND ROUTE PLUMBING AND ELECTRICAL CONDUIT AWAY FROM TREE ROOTBALL ZONES. SEE SHEETS L4.02 AND L4.03.

NO.	DATE:	DESCRIPTION

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LEWIS AVENUE CORRIDOR IMPROVEMENTS FPN STP-0170(075)

TITLE: SHEET:

Sheet
F1.00
42 of 46
DRAWING NO.
107-V3502

FOUNTAIN DIAGRAM AND NOTES

BID NO. 02.1730.18