

## Water Line Overview, Layer Site 4 EPA Wells

### Well Site to Water Room

The VFD controlled wells that supply water to the Trillium Farms, Layer 4 processing facility at 11492 Westley Chapel Rd are located on-site. The water from well #1 is pumped to the site water room through a 2" SDR21 PVC pipe. Well #2 supplies the water room through a 2" yelomine pipe. All known fittings and joints between the well's pitless adapter and the water room are glued PVC or gasketed, bell/spigot. Several points along the Well #1 supply line have been excavated and repaired, and visually verified to be PVC pipe. Well #2 is yelomine pipe, and was directionally bored to the water room in 2014.

### Water Room Layout

The water lines enter the water room inside the south wall as 2" SCH80 PVC pipes. (Trillium does not know for certain where the transition from SDR21 to SCH80 takes place. The yelomine pipe transitions immediately after it enters the water room) Once in the water room the pipe is connected to 2 pressure tanks, 1 per well, and then continues up the wall and overhead, hanging from the ceiling. It then passes through a softener system, and then towards a chlorine injection system. Before the chlorine injection system, a ¾" service line tees off, through an RPZ, and terminates in the boiler room to supply make-up water to our closed-loop boiler system.

The main line continues to the chlorine injection system. The chlorine injection system is composed of an injection pump, meter, galvanized mixing tank, and a bypass to allow for system maintenance during operations. All treated water that goes to the processing facility passes through the mixing tank, and exits the water room through the floor near the northeast corner of the water room via a 1.5" SDR21 pipe. The entire main line pipe in the water room is SCH80 PVC with the exception of a couple short sections of copper pipe that supply water to the boiler system. The copper pipe was installed in 2014 when the boiler supply line was updated. All connections and fittings are threaded or glued.

### Main Water Line Enters Processing

The 1.5" SDR21 PVC water line enters the processing facility through the floor in the northeast corner of the dry dock. The pipe travels up the wall, through a meter, and transitions to SCH80 PVC. The pipe continues up the wall until it reaches the ceiling where it tees towards the processing plant floor (east), and to the facility's front office area (south).

### Main Water Line Branches into Processing Area

The plant's water line passes through the dry dock/plant wall, and continues east towards the processing equipment. After the wall, a service line tees off to an emergency chemical shower. The emergency shower line is SCH80 PVC. The main plant service then passes through an RPZ. After the RPZ, another service line tees off to the clean-up room. The clean-up room service is SCH40 PVC, and is used to supply water to a residential washing machine. The plant's main line splits to supply cold water to hose connections, and the egg washers. The other side of the main line split passes through a heat exchanger, and supplies hot water to the hose connections and final rinse bar on the egg washers. The main supply line after the clean-up room service is galvanized steel pipe and copper. It is connected with crimp-on fittings and soldered joints. The supply lines to the egg washing equipment are all fitted the same way. All soldered joints were made in 2016 with lead-free solder.

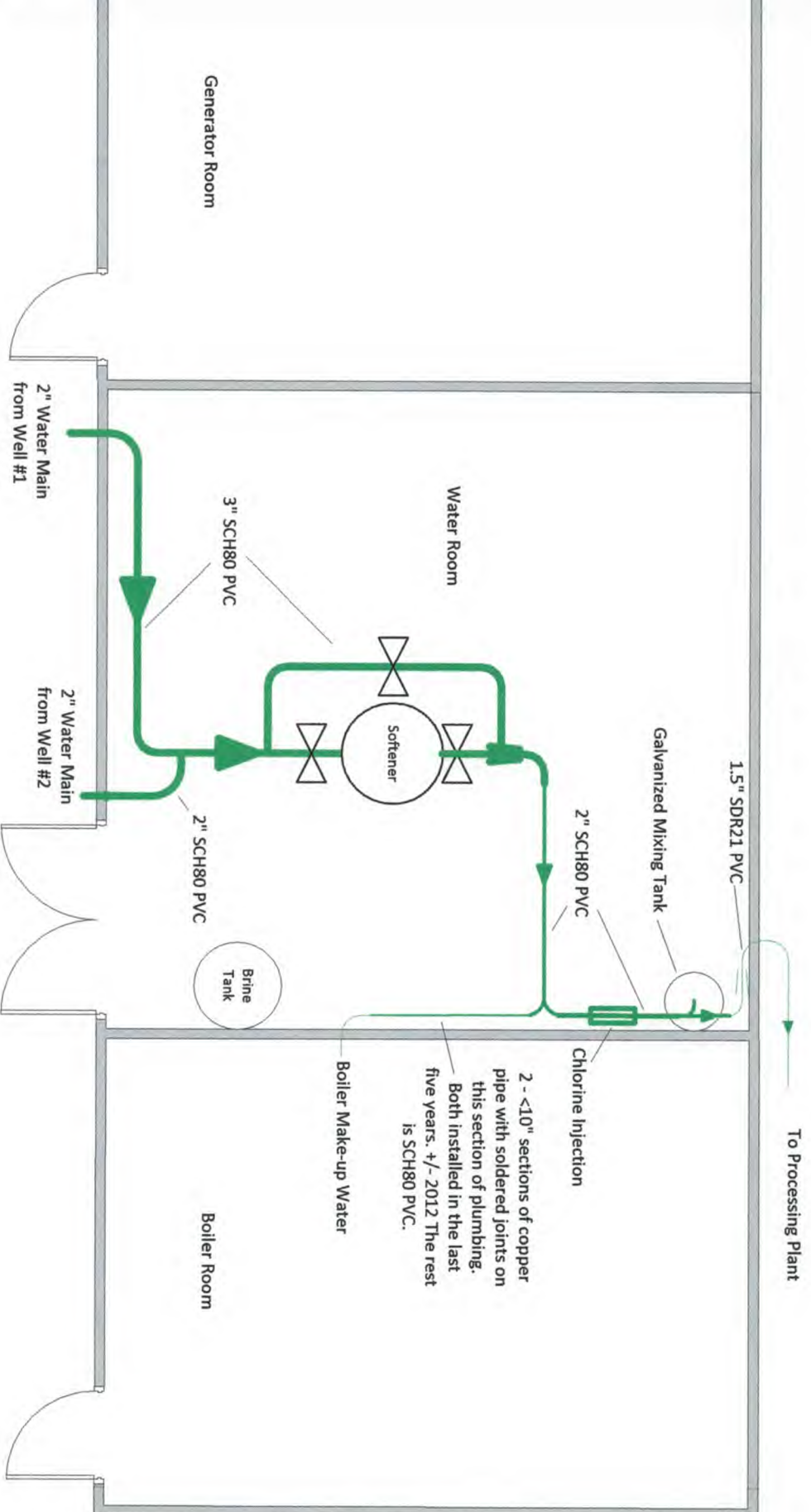
## **Water Line Overview, Layer Site 4 EPA Well (cont'd)**

### Main Water Line Branches to Supply Front Office Area

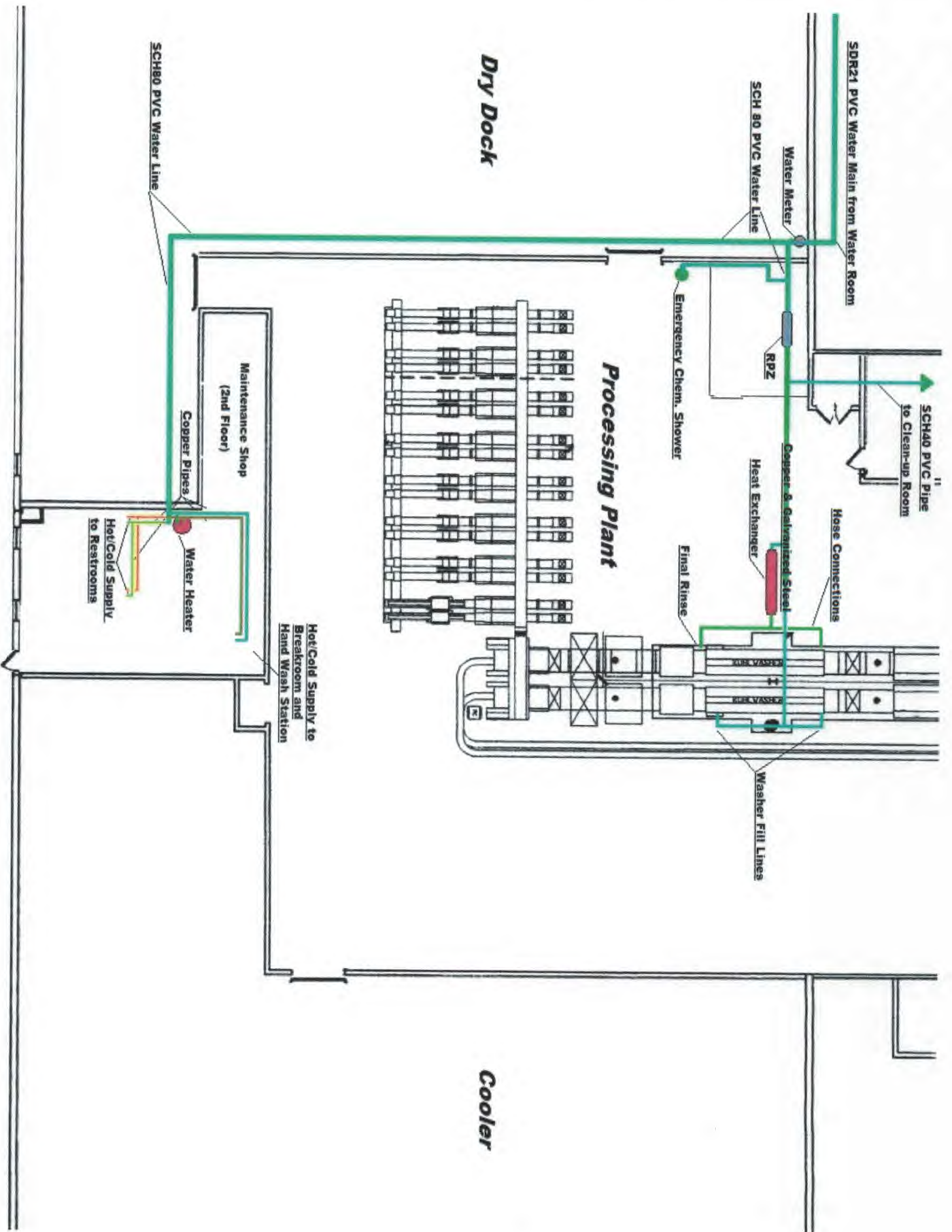
Before the main line enters the processing plant through the dry dock/plant wall, it tees off towards the front of the facility to the office, breakroom, and restroom areas. The service hangs from the ceiling, and follows the dry dock/plant wall until it turns into the second floor maintenance shop. The supply line splits in the maintenance shop to supply cold water to a breakroom sink, a hand wash station, and two restrooms. The supply line also supplies cold water to an electric hot water heater (located in the maintenance shop). The hot water heater provides hot water to a breakroom sink, a hand-wash station, and two restrooms. The main line is SCH80 PVC and glued fittings until it reaches the maintenance shop. Inside the maintenance shop the service lines are SCH40 PVC, CPVC, and copper. The copper fittings are connected with soldered joints/fittings, and were installed in 1998 during a remodel. The hot and cold supply lines to the breakroom and hand-wash station are PVC, CPVC, and PEX. Any supply lines and fittings that service the restrooms are located in the concrete walls, and are believed to be copper that was installed around 1982.



Trillium Farms, Layer Site 4  
11492 Westley Chapel Rd, Croton, OH 43013



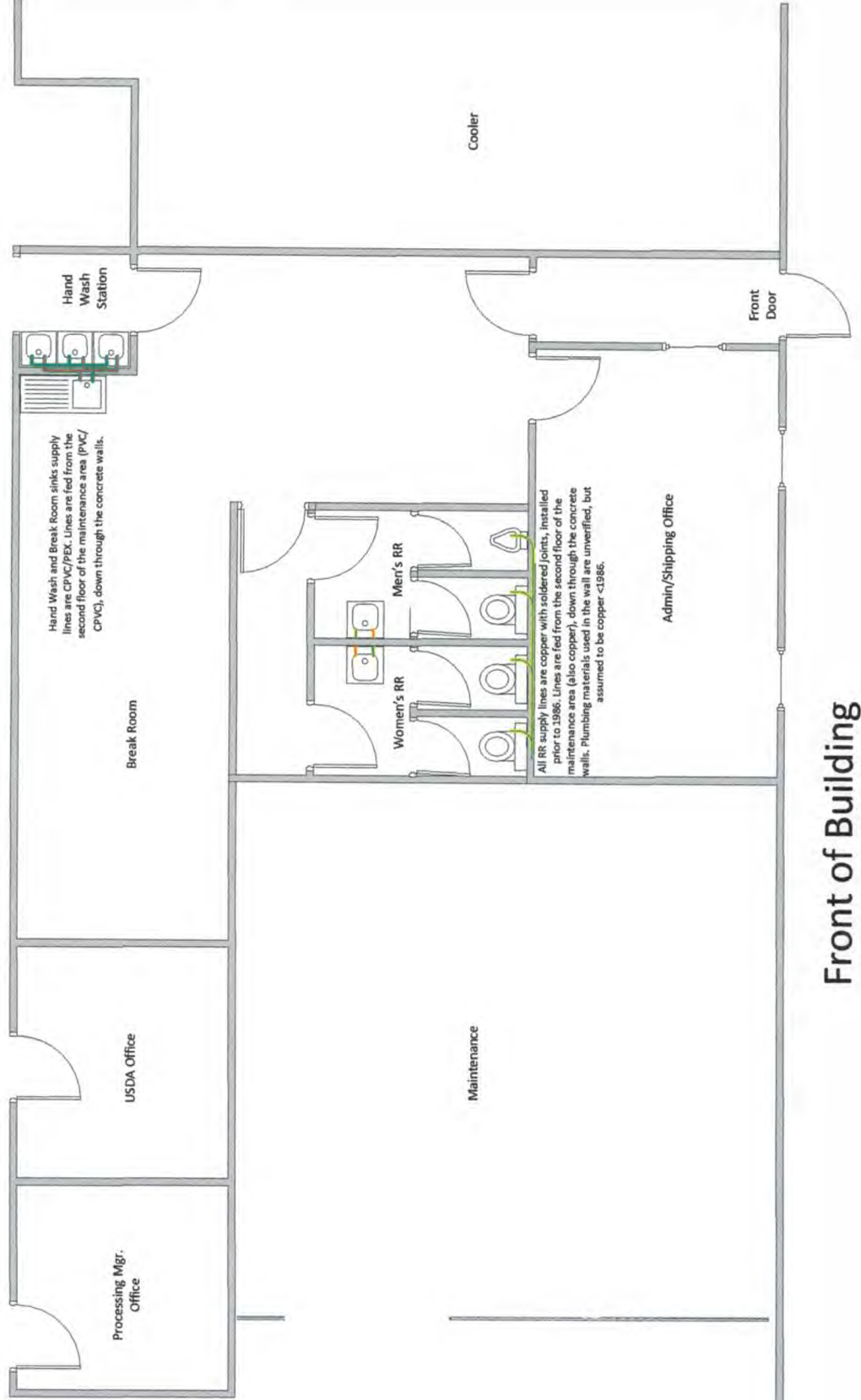
**\* No lead pipe or fittings in this water room**



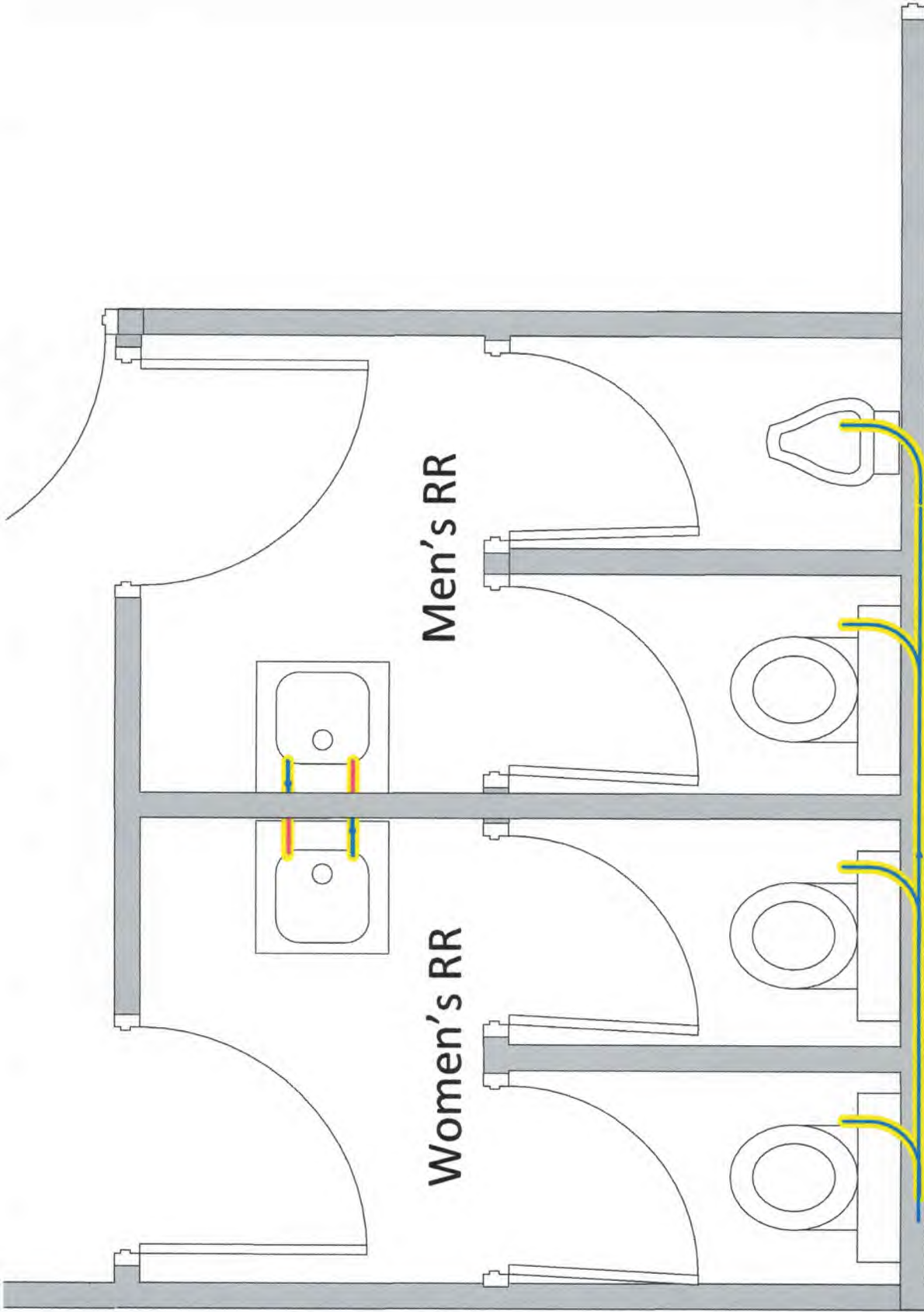


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Processing Floor



Front of Building



All RR supply lines are copper with soldered joints, installed prior to 1986. Lines are fed from the second floor of the maintenance area (also copper), down through the concrete walls. Plumbing materials used in the wall are unverified, but assumed to be copper <1986.

## Processing Floor

Hand Wash and Break Room sinks supply lines are CPVC/PEX. Lines are fed from the second floor of the maintenance area (PVC/CPVC), down through the concrete walls.

