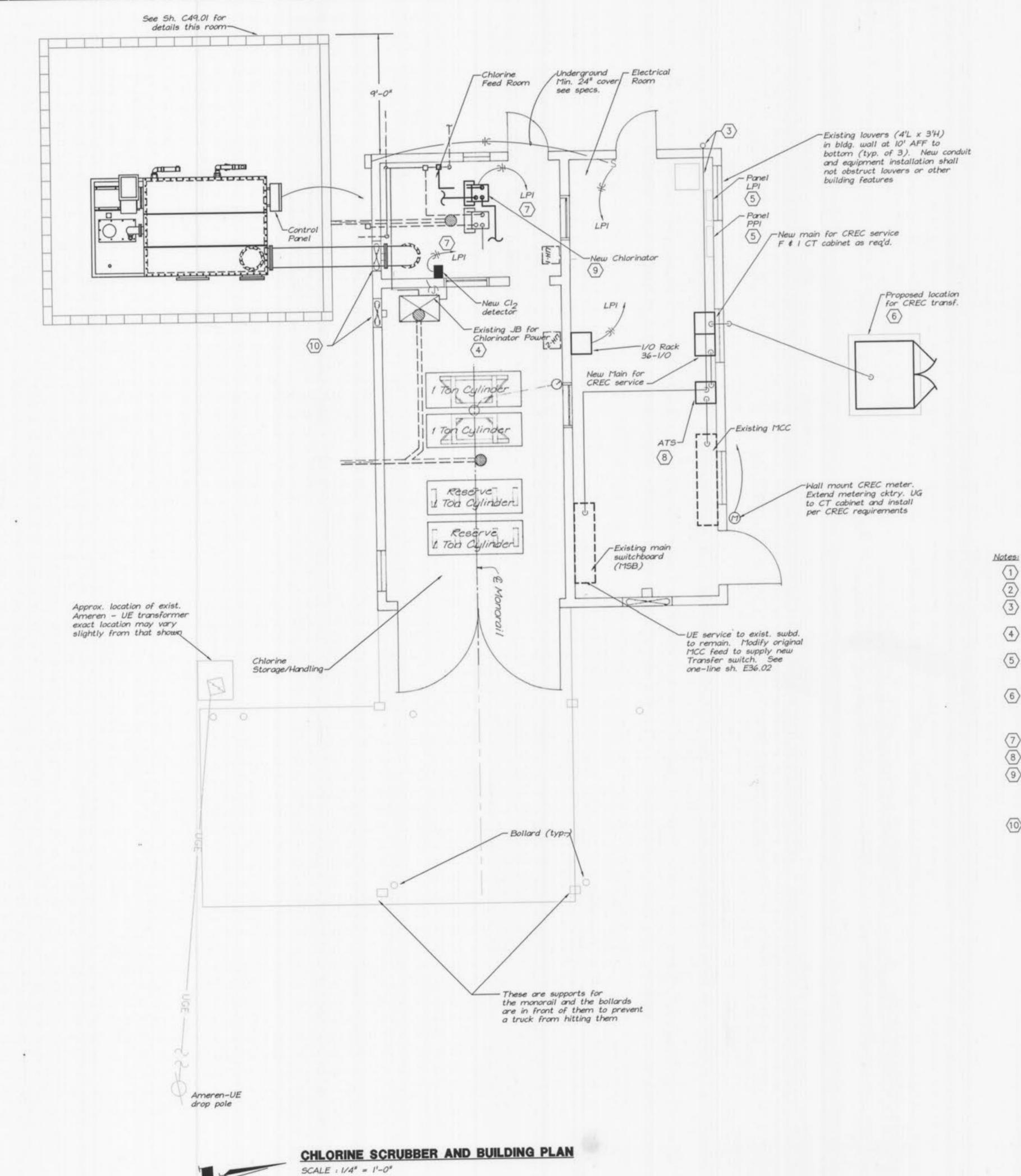
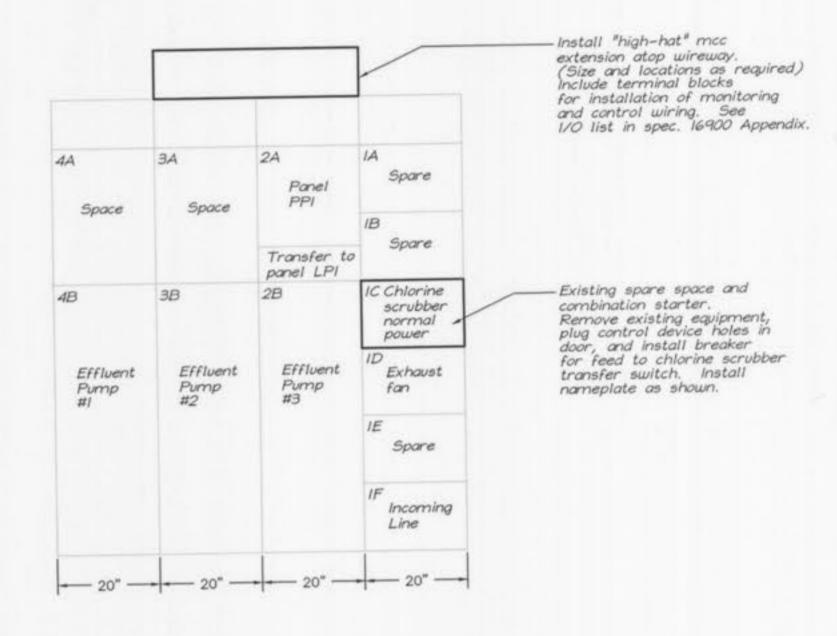
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DESIGNED BY: SLC DRAWN BY: KRC CHECKED BY: SLC

SHEET NUMBER E36.01

O'FALLON WASTEWATER TREATMENT PLANT EXPANSION





- (1) All conduit used in this area shall be PVC coated rigid steel.
- (2) Install: I/O track approx. as shown, see instrumentation one-line and specs.
- (3) Extend UG circuitry up wall, penetrate well and continue to mcc. Grout repair wall and paint to match existing.
- (4) Connect new chlorinator to same power supply and alarm system as existing chorinator.
- (5) Existing breakers 5(3P-15) and 7(3P-20) in panel PPI are used for power to Final Clarifier 3 drive and scum pump respectively. Equipment power to be relocated (Re:El6.02), disconnect and remove wiring, abandon conduit in place.
- 6 Exact location of equipment may vary slightly from that shown. Cuivre River Electric Cooperative (CREC) to F # I transformer, pad, and primary circuitry. This contractor shall F # I secondary metering equipment and circuitry per CREC requirements.
- (7) Extend circuit to spare breaker in panel LPI.
- (8) Transfer switch at this facility shall operate automatically.
- (9) New chlorinator to operate as a backup to existing chlorinator. Contractor shall modify the programming in the existing PLC to control new chlorinator in the same manner as the existing chlorinator. Contractor shall provide all necessary analog output modules wiring and circuitry necessary for the PLC to provide a 4-20 mA signal to the new
- (10) Contractor to disconnect the electrical connections to the existing exhaust fans in the Chlorinator Room and Chlorine Storage Room. Contractor shall modify the existing exhaust fan control circuitry and provide any new circuitry necessary to initiate the operation of the new scrubber on the detection of a chlorine leak by the chlorine detectors. Contractor shall furnish and interconnect a manual stop button to stop the chlorine scrubber after its initial operation if the chlorine detectors have stopped sensing a chlorine leak. The contractor shall provide a light indicating chlorine scrubber operation on the existing control panel.