



SEE NOTES ON REVERSE SIDE

ORG. BY RAM
11/15/74
APPROVED

UNDERGROUND ELECTRIC CONDUITS

GROTON UTILITIES

CONSTRUCTION STANDARD

E 12.105

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NOTES FOR UNDERGROUND ELECTRIC INSTALLATIONS

1. Underground Electric Conduits shall not be installed in common trench with any other utilities except telephone, or CATV, without the express approval of the Groton Utilities Project Management.
2. Underground Electric Conduits may be galvanized steel, intermediate metal conduit or an approved rigid non-metallic type:

<u>Approved Non-Metallic</u>	<u>Type</u>
PVC	Schedule 40

Electric conduits must be designed for the purpose use and so marked by the manufacturer.

3. All conduit fittings must be appropriately designed, i.e.; conduits with straight couplings must be laid straight, etc.
4. Steel conduit ends shall be fitted with grounding bushings. Non-metallic conduits shall be fitted with bell ends.
5. All bends shall be galvanized steel conduit.
6. Conduit size and location to be determined by Groton Utilities.
7. No conduit shall be laid near, nor backfilled, with cobbles 2" in diameter or larger, non-metallic conduit shall be backfilled with 6" of sand on all sides.
8. A pull rope or wire shall be installed in all conduits of sufficient working strength to pull a minimum 20-pound load per 100 foot of run.
9. Underground conduits are to be installed in accordance with the latest edition of the National Electric Safety Code and this standard; whichever is greater, in addition to the manufacturer's recommendation.
10. No conduit shall be installed on Groton Utilities portion of any electrical installation until the contractor meets with and has the approval of, Groton Utilities Electrical Inspector. All underground electric conduits shall be inspected prior to backfilling.
11. A mandrel of appropriate size shall be pulled through conduit in presence of Groton Utilities Inspector.
12. Groton Utilities will furnish the Contractor with red plastic underground warning tape for installation above electric conduits. The Contractor shall install a separate warning tape above each electric conduit that has a horizontal separation of 12 inches or greater. When advised by Groton Utilities Electrical Inspector or Project Management, a deeper trench may require the warning tape to be installed 12 inches to 18 inches above conduit.
13. Rough grading must be completed over any electrical conduits before Groton Utilities equipment can be installed.