

Rubber type conduit plugs or PVC plastic caps, as approved by the engineer, shall be placed in all conduits which are terminated in vaults, closures, etc.

The Contractor shall furnish and install a nylon pull cord, which is rated at 500 lbs. Minimum tension, in all conduits. The pull cords shall be installed and the completed ducts shall be capped and plugged as directed by the Engineer with concurrence of the utility company inspector. The installed conduit shall be inspected and approved by the Engineer before backfilling.

The Contractor shall install plastic warning tape, describing buried lines and cables, along entire length of duct bank. The warning tape shall be placed 12" above the top of conduit.

Plastic duct joints shall be made watertight by the use of a brush applied comment as recommended by the manufacturer.

Duct bends required for passing duct under existing line of duct banks shall be made up by the use of 22 degree or 30 degree elbows. Field bends shall be avoided whenever possible.

Ducts entering manhole or vault walls shall terminate with bell ends grouted into manhole or vault wall. Entry into existing manholes shall be accomplished by use of core drill.

Ducts entering existing manhole shall be grouted in place with minimum 2500 psi concrete. All existing cables and equipment in a manhole shall be protected from possible damage. All work in existing manholes shall be coordinated and approved by Verizon.

Prior to pouring controlled density fill (CDF), the duct shall be securely anchored to prevent movement during the pour. Anchors shall be within 2 ft and on each side of a joint, at each end of a bend, and at a maximum distance of 10 ft between anchors.

The Contractor shall confirm, before placing duct lines, that the surface on which CDF is to be poured is undisturbed original ground or firmly compacted earth free from voids, rock or rubble.

Where a new entry for conduit must be made into the wall of an existing vault, the Contractor shall core drill or otherwise remove the concrete to provide a neat opening of the size shown on the plans. Conduit entry shall be done as provided in the previous paragraph. Conduit shall be grouted in place. No entry into existing vaults shall be allowed without the presence or permission of the utility company inspector.

All frame and covers shall be constructed to final grade unless otherwise directed by the Engineer.

624.06. BACKFILL. All Duct Banks shall be backfilled with CDF to the elevations shown on the plans. After the CDF has cured for a minimum of 24 hours and has obtained sufficient strength to support the weight of foot traffic without deformation for earthen backfill or vehicle traffic for paving operations, approved material shall be placed over the encased ducts. The material shall be brought to subgrade beneath roadway, grass belt, sidewalk, bike path, and any other paved or gravel areas. For grassed areas the material shall be brought to within three inches of the finished grade, a three inch layer of topsoil placed and the area seeded and mulched in accordance with the applicable requirements of Section 651. Paved, concrete or gravel areas shall be replaced in kind as directed by the Engineer.

Controlled Density Fill shall be pumped into the sleeved duct bank to fill the spaces between the ducts and sleeve.

624.07. ADJACENT UTILITIES. In excavating for conduits, the Contractor shall be attentive to the adjacent utilities with respect to type of materials, size, age, condition, type of construction, couplings and joints and pressure within. These factors shall determine the allowable separation. Damage to other utilities shall be repaired by the Contractor at his expense.

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