

DIVISION 2 - SITE WORK

SECTION 02724 - DRAINAGE PIPE

1. GENERAL REQUIREMENTS:

The work includes all materials, labor, equipment and plant necessary to reconstruct or relay all storm drain lines, structures and appurtenances where shown on the plans or as may be disturbed during construction.

2. MATERIALS:

Concrete pipe for use as storm drain pipe shall conform to the requirements of ASTM C-76, latest edition, Class III. with resilient prefabricated "push" joints. Where existing lines are disturbed, those materials which are reusable may be used in restoration. Where pipe is reusable, joints will be made with bituminous joint material or by use of cement mortar diaper joint.

3. LAYING DRAIN PIPE:

- A. Drain lines shall be laid to line and grade as established by the Engineer, where shown on the plans, or as directed. All pipe lines and structures will be constructed by the use of competent workmen under the supervision of experienced foremen to the end that a satisfactory workmanlike job can be accomplished. Great care shall be taken to obtain well aligned and tight pipe lines so as to assure good flow and the exclusion, insofar as is possible of all infiltration by ground water.
- B. Laying Pipe Drains: Only proper and suitable tools and appliances for the safe and convenient handling and laying of pipes and fittings shall be used. Pipe and fittings shall be carefully handled and lowered into the trench. The ends of pipe shall abut against each other in such manner that there shall be no shoulder or unevenness of any kind along the inside of the bottom half of the pipeline.
- C. Special care shall be taken to insure that the pipes are well bedded on a solid foundation, and no pipe shall be brought into position until the preceding length has been thoroughly embedded and secured in place.
- D. Whenever a pipe requires cutting to fit into the line or to bring it to the required location, the work shall be done in a satisfactory manner, so as to leave a smooth end, and without extra compensation.

4. INLETS AND MANHOLES:

- A. All lines entering structures shall be placed upon the concrete slab prior to beginning any brick work. The masonry work shall be brought up snugly around such lines and a tight connection made so as to preclude any washout and cavities at the basin.
- B. The brick walls shall be constructed of concrete block or good hard burned common brick in the manner as shown on the plans, furring in as necessary to meet the casing specified. Brick and mortar shall be specified under Section 04200, Masonry.
- C. Prefabricated manhole structures must receive prior approval before installation.

5. REPAIR OF EXISTING MANHOLES:

Whenever a pipe is passed through an existing manhole, entrance and exit area shall be sealed with a cement compound similar to Embeco 153 Grout by Master Builders, Protobond ET-180 by Protex or equal.

6. EXCAVATION AND BACKFILL:

Excavation and backfill shall be in accordance with Section 02200, Earthwork.

END OF SECTION 02724