

SECTION 02630  
STORM DRAINAGE

## PART 1 - GENERAL

## 1.1 SCOPE

- A. This section includes storm sewers and structures appurtenant thereto. Excavating, trenching, backfilling and density tests are specified elsewhere. Storm sewer system work includes, but is not limited to, the following:
  - 1. Storm sewer conduits
  - 2. Storm sewer structures required by drawings
- B. Refer to applicable Division 2 Section 02310 – Earthwork, for excavation and backfilling work related to storm sewer systems.
- C. Refer to applicable Division 3 sections for concrete work related to storm sewer systems.

## 1.2 QUALITY ASSURANCE

- A. Installer: A firm specializing and experienced in storm sewer work for not less than two years.

## 1.3 SUBMITTALS: See Section 01300 - Submittals.

## PART 2 - PRODUCTS

## 2.1 GENERAL

- A. Except as otherwise provided, all storm sewer materials shall comply with the City of Melbourne Engineering Standards and the applicable sections of the Florida Department of Transportation (FDOT) "Standard Specifications for Road and Bridge Construction" current edition which are hereby incorporated into these specifications by reference. Further, all construction details included in the current edition of FDOT's "Roadway and Traffic Design Standards" are incorporated into these specifications by reference.

## 2.2 CONDUIT MATERIALS

- A. For pipes smaller than 12": Selection of materials specified below is at the installer's option.
  - 1. Polyvinyl Chloride (PVC), ASTM D-3034, SDR 35 pipe and fittings. Fittings shall be with rubber gasketed joints.
  - 2. Corrugated Polyethylene Pipe (CPEP) in accordance with AASHTO M294 and ASTM D-3350. CPEP shall have a smooth interior.
- B. For pipes 12" and larger: Selection of the materials specified below is the installer's option unless shown otherwise on the drawings.
  - 1. Corrugated Polyethylene Pipe (CPEP) in accordance with AASHTO M294 and ASTM D-3350. CPEP shall have a smooth interior.
  - 2. Reinforced Concrete Pipe (RCP): FDOT Section 941, round, standard concrete culvert pipe unless Class IV pipe is called for.

## 2.3 STORM SEWER STRUCTURES

- A. FDOT Index 200 Series. Use standard size steel grates (hot-dipped galvanized after fabrication) on all inlets, traffic bearing and rated for bicycle traffic. Either cast iron or hot-dipped galvanized steel grates may be used in areas where wheel loads or bicycle traffic is not anticipated. Maximum gap between concrete and grate not to exceed 5/8 inch on any one side.

2.4 COURTYARD DRAINS

- A. Advanced Drainage Systems, Inc. (ADS) or equal.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: All operations hereunder shall adhere to the requirements of the City of Melbourne Engineering Standards and FDOT's "Standard Specifications" above and particularly with the following sections.
  - 1. Concrete Storm Sewers: FDOT Section 430
- B. Adhere to manufacturer's recommendations on the installation of PVC, CPEP, and RCP storm sewers.
- C. All external pipe joints shall be sealed with a filter fabric jacket per DOT Index 280.

END OF SECTION 02630