

## SECTION 02618 – STORMWATER PIPE

### 1. GENERAL

#### 1.1 DESCRIPTION

- A. Work included but not limited to:
  - 1. Storm water pipelines
- B. Related Work
  - 1. Trench excavation and backfill
  - 2. Inlets, junction boxes

#### 1.2 QUALITY ASSURANCE

- A. Standards
  - Maryland Department of Transportation  
State Highway Administration  
Standard Specifications for Construction Materials  
2001 or latest Edition & Addendums
  - 1. American Association of State Highway and Transportation Officials.  
(AASHTO)  
M 294 – Corrugated Polyethylene Pipe  
M 252 – Corrugated Polyethylene Drainage Tubing
  - 2. American Society for Testing Materials (ASTM).  
F405 – Standard Specification for Corrugated Polyethylene (PE) Tubing  
and Fitting

#### 1.3 SUBMITTALS

- A. Submit Compliance Statements from manufacturers/suppliers that products supplied meet the specification requirements.

#### 1.4 PRODUCT HANDLING

- A. Exercise care during loading, transporting and unloading to prevent damage to products.

### 2. PRODUCTS

#### 2.1 HIGH DENSITY POLYETHYLENE (HDPE) PIPE

- A. Pipe and fittings
  - 1. AASHTO M294 Type S
  - 2. Soil tight joints

#### 2.2 POLYETHYLENE PIPE

- A. Pipe and Fittings
  - 1. Maryland Department of Transportation  
State Highway Administration  
Standard Specifications for Construction Materials  
2001 or latest Edition & Addendums
  - 2. AASHTO M252

2.3 REINFORCED CONCRETE PIPE

- A. Pipe and Fittings
  - 1. Maryland Department of Transportation  
State Highway Administration  
Standard Specifications for Construction Materials  
2001 or latest Edition & Addendums
  - 2. ASTM C76, Class V, Wall B
- B. Joints
  - 1. Tongue and Groove

2.4 GEOTEXTILES

- A. Geotextile Material
  - 1. Maryland Department of Transportation  
State Highway Administration  
Standard Specifications for Construction Materials  
2001 or latest Edition & Addendums
  - 2. Class 1 geotextile material

3. EXECUTION

3.1 EXCAVATE TRENCHES

- A. Excavate trenches to the line and grade shown on the drawings and as specified in Section 02220.
- B. Provide pipe bedding material as specified and as shown on the drawings. Place and compact aggregate so pipe can be installed to grade.

3.2 PIPE INSTALLATION

- A. Lower pipe and trench using nylon slings or as recommended by the pipe manufacturer.
- B. Lay pipe to a uniform grade line.
- C. Lay each pipe section to make a close concentric joint with adjoining pipe for a continuous uniform flow line.
- D. Clean and inspect each pipe and fitting prior to joining. Align pipe and assemble in accordance with manufacturer's recommendations.
- E. Check pipe for line and grade.
- F. Place and compact backfill as pipe is installed.

3.3 BACKFILLING TRENCHES

- A. Backfill pipeline trenches after inspection by the Engineer.
- B. Backfill and compact trenches in accordance with the specifications and manufacturers recommendations.

END OF SECTION 02618