

02630 – STORM DRAINAGE

(Last revised X/XX/XX)

This division contains 18 pages!

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PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this specification.
- B. Section 02275 – TRENCHING, BACKFILLING, AND COMPACTION OF UTILITIES.
- C. Section 02530 – SANITARY SEWER
- D. Division 02920 – SEEDING, SODDING, AND GROUND COVER

1.2 SUMMARY

This section includes all equipment, labor, material, appurtenances, and services required for complete installation of storm drainage piping, ditches, structures, and specialties for municipal drainage systems.

1.3 DEFINITIONS

A. General

For the purposes of this specification, the following definitions refer to storm water drainage systems and structures that come under the authority of the City of Jacksonville, XX as specified within this section and other sections of this manual.

Public Storm Drainage System: Drainage systems and their appurtenances required for the conveyance of public storm water from and across publicly maintained streets, roads, highways, and other public property and located within public rights-of-way and/or easements.

- B. The following are industry abbreviations for various pipe materials.

- 1) **CAP:** Corrugated Aluminum (Alloy) Pipe
- 2) **CMP:** Corrugated Metal Pipe (not permitted)
- 3) **HDPE:** High Density Polyethylene Pipe
- 4) **PCP:** Plain Concrete Pipe
- 5) **RCP:** Reinforced Concrete Pipe

1.4 SUBMITTALS

- A. Submit shop drawings on all non-standard products/materials.
- B. Submit product data and shop drawings for the following.
 - 1) Drop/curb inlets
 - 2) Frame and covers
 - 3) Head/end walls
 - 4) Inlet grates
 - 5) Concrete pipe and piping specialties
 - 6) Precast concrete manhole castings
 - 7) Corrugated aluminum pipe and piping specialties (to include gauges, corrugation pattern, and diameter)
 - 8) HDPE Fittings

1.5 QUALITY ASSURANCE

- A. Materials and operations shall comply with the latest revision of all applicable Codes and Standards.
- B. Piping materials shall be marked clearly and legibly.
 - 1) Reinforced Concrete Pipe shall be marked as follows:
 - a. Pipe Class,
 - b. Manufacturer
 - 2) Plain Concrete Pipe shall be marked as follows:
 - a. Pipe Class,
 - b. Manufacturer
 - 3) Corrugated Aluminum Pipe shall show identification marks on pipe as follows:
 - a. Manufacturer's Name or Trade Mark,
 - b. Nominal thickness and type of aluminum
 - c. Specification Designation
 - d. Plant Designation Code
 - e. Date of Manufacture

- 4) Double walled corrugated HDPE pipe, end sections, tees, elbows and accessories shall be marked as follows:

PART 2 – PRODUCTS

2.1 PIPE & FITTINGS

2.1.1 CORRUGATED METAL PIPE (NOT PERMITTED)

2.1.2 CORRUGATED ALUMINUM ALLOY PIPE

A. CORRUGATED ALUMINUM ALLOY PIPE

Corrugated aluminum alloy pipe must meet the requirements of AASHTO M196 except that Type IA pipe will not be permitted. The pipe sizes, gauges, and corrugations shall be as shown on the plans. Handling and assembly shall be in accordance with NCSPA's (National Corrugated Steel Pipe Association) recommendations.

B. JOINTS & FITTINGS IN CORRUGATED ALUMINUM ALLOY PIPE

Corrugated aluminum alloy pipe end sections and other fittings shall meet the requirements of AASHTO M196.

2.1.3 CONCRETE PIPE

A. PLAIN CONCRETE PIPE (NOT PERMITTED)

B. REINFORCED CONCRETE PIPE

RCP shall be a minimum of Class III, Wall B and meet the applicable requirements of AASHTO M170. Concrete pipe joints shall be tongue and groove type unless otherwise specified. RCP shall conform to the requirements of applicable sections of the latest revision of the XXDOT *Standard Specifications for Roads and Structures*.

RCP Class III or IV shall also meet ASTM C76, *Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe*.