

SECTION 02644 - PVC NON-PRESSURE PIPE

City of San Diego, CWP Guidelines

\$# _____

NTS: This Section is coordinated with Section 02600 such that it requires inclusion of that Section in the Contract Document.

#

PART 1 -- GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing underground PVC nonpressure pipe for gravity flow and all appurtenant work, complete in place.

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.

- 1. Section 01530 Protection of Existing Facilities
- 2. Section 02140 Dewatering
- 3. Section 02200 Earthwork
- 4. Section 02600 Pipeline Construction
- 5. Section 02730 Sanitary Sewerage System Testing
- 6. Section 03310 Cast-in-Place Sitework Concrete

1.3 STANDARD SPECIFICATIONS

- A. Except as otherwise indicated in this Section of the Specifications, the CONTRACTOR shall comply with the Standard Specifications for Public Works Construction (SSPWC), as specified in Section 01090 - REFERENCE STANDARDS.

1.4 SPECIFICATIONS AND STANDARDS

- A. Except as otherwise indicated, the current editions of the following apply to the WORK of this Section:

- 1. ASTM D 2321 Recommended Practice for Underground Installation of Flexible Thermoplastic Sewer Pipe

1.5 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:

- 1. Samples of all the materials proposed for use on the WORK. The samples shall be clearly marked to show the manufacturer's name and product identification and

shall be submitted along with the manufacturer's technical data and installation instructions.

2. Shoring and bracing drawings in accordance with the requirements of Section 02200.
3. Shop drawings and laying diagrams of all pipe, joints, bends, special fittings, and piping appurtenances.

1.6 OWNER'S MANUAL

- A. The following shall be included in the OWNER'S MANUAL in compliance with Section 01300:
 1. Manufacturer's certificates of compliance indicating that all materials furnished under this Section meet the requirements of the Contract Documents.

1.7 FACTORY TESTING

- A. The manufacturer shall perform all tests and submit the test results data and certification in compliance with SSPWC Subsection 207-17.4.

PART 2 -- PRODUCTS

2.1 GENERAL

- A. PVC pipe, fittings, couplings and appurtenances shall comply with SSPWC Subsection 207-17.
- B. In addition to the identification marks specified in SSPWC 207-17.2.1, the CONTRACTOR shall also require the manufacturer to mark the date of extrusion on the pipe. This dating shall be done in conjunction with records to be held by the manufacturer for 2 years, covering quality control tests, raw material batch number, and other information deemed necessary by the manufacturer.
- C. All PVC pipe shall be suitable for joining by compression joints unless otherwise shown or indicated.

2.2 BEDDING MATERIAL

- A. Unless otherwise indicated, all material used for pipe bedding shall conform to the requirements of SSPWC Subsection 306-1.2.13, and the trench backfill material shall comply with Section 02200.

PART 3 -- EXECUTION

3.1 GENERAL

- A. All laying, jointing, testing for defects and for leakage shall be performed in the presence of the CONSTRUCTION MANAGER, and shall be subject to his approval before acceptance
- B. Installation shall conform to the recommendations of pipe manufacturer, the requirements of ASTM D 2321, SSPWC Subsection 306-1.2.13, Section 02600, and as indicated herein.

3.2 TRENCHING AND BACKFILL

- A. Trench excavation and backfill shall conform to the requirements of Sections 02200, 02600, and SSPWC Subsection 306-1.3.
- B. The minimum depth of cover over the top of the pipe shall be [36] inches unless otherwise shown. The width of the trenches shall be as indicated on the Drawings.

3.3 FIELD JOINTING

- A. Pipe shall be jointed in compliance with manufacturer's printed instructions.

3.4 COMPACTION OF PIPE BEDDING AND BACKFILL

- A. Compaction of pipe bedding and backfill material shall conform to the requirements of Sections 02200 and 02600.

3.5 TESTING

- A. Field testing of gravity sewer pipe shall conform to the requirements of Section 02730.

**** END OF SECTION ****