PART 1 - GENERAL

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PART 1 - GENERAL

1.01 REQUIREMENT
Under this specification, the Contractor shall be required to furnish, deliver and unload within the time specified in the Contract Documents, the manholes and fittings as specified on the Bidding Sheets, shown on the Contract Drawings, and described in these specifications, except as otherwise approved in writing by the Engineer.

1.02 MEASUREMENT AND PAYMENT
Payment for quantities of manholes will be made at the unit prices as stated on the Bidding Sheets.

1.03 GUARANTEE
The Contractor shall guarantee all materials and workmanship of items furnished under these specifications to be free from defects for a period of one (1) year after final completion and acceptance of the entire contract work. The Contractor shall, at his own expense, repair or replace all defective materials or workmanship supplied by him found to be deficient with respect to any provisions of this specification.

PART 2 - PRODUCTS

2.01 MANHOLES
All manhole rings, tops, and cones, as constructed in place, shall be designed for A.A.S.H.O. H-20 highway loading, and shall conform to District standard drawings and the requirements of ASTM C-478 and the following requirements.

2.02 RINGS
All manhole rings shall be centrifugally spun or compactly vibrated in forms.

2.03 TOPS
All manhole tops and cones shall be compactly vibrated in forms.
2.04 MANHOLE COVERS
All manhole covers and frames shall conform to District standard drawings and the requirements for Class 30 gray iron castings in ASTM Designation A-48, or Class 60 Ductile Iron castings in ASTM A-536. The castings shall be thoroughly cleaned and coated with commercial quality asphaltum paint. Frames and covers shall be matchmarked in pairs before delivery to the work site and must be machined matched between cover and frame to avoid rocking.

2.05 MANHOLE STEPS
Manhole steps shall conform to District Standard Drawings and shall be constructed of 1/2" plain steel bar encapsulated with copolymer polypropylene plastic as approved by EMWD. Alternate to be approved by EMWD for casting-in-place.

END OF SECTION 15340