

ITEM 663.17----25 - INSTALL STEEL CASING (FURNISHED BY OTHERS)

1. DESCRIPTION:

- 1.01 This work shall consist of furnishing all labor, materials, tools, and equipment necessary for installing a steel casing supplied by others by open cut method as indicated on the plans or as directed by the Engineer, including the furnishing and installing of the insulated casing spacers and end seals.

2. MATERIALS:

- 2.01 The steel casing pipe will be provided to the Contractor by others. The pipe will be ASTM A53 seamless or electric welded pipe, Grade B, standard thickness; American Petroleum Institute (API) 5L Grade B seamless, electric welded pipe, Schedule 40; or approved equal. The ends will be prepared for butt welding and beveled at 37 ½ degrees.
- 2.02 It will be the Contractor's responsibility to inspect the material supplied by others upon delivery and advise the Engineer of all damaged material. any material which is damaged or lost after the Contractor's inspection shall be replaced by the Contractor.
- 2.03 The Contractor shall notify the Engineer of the installation schedule at least thirty (30) days before material is required. Should the necessary material fail to be supplied according to the required schedule, the Authority shall not be responsible for any delays attributable thereto, nor for the failure to supply such material.

3. CONSTRUCTION DETAILS:

- 3.01 Prior to beginning installation, the Contractor shall coordinate the location of the casing with the Engineer.
- 3.02 The casing shall be installed by the open cut method in the location shown in the plans.
- 3.03 The casing shall be placed to a minimum depth of five (5) feet from the top of casing to any finished or existing grade.
- 3.04 Excavation protection system or sheeting shall be required in accordance with the state and federal safety codes.
- 3.05 The casing pipe shall be laid true to line and grade and shall have a full, firm and even bearing.
- 3.06 Welding of casing pipe sections shall be done by a certified welder.
- 3.07 The ends of the casing shall be sealed and made waterproof in a workmanlike manner.
- 3.08 Bedding, filling and backfilling shall be done in accordance with Subsection 203-3.15 of the Standard Specifications.
- 3.09 Open ends of sections of pipe casing placed in the trench shall be temporarily closed with the end caps supplied by others. The ends of the casing are to be marked with a metal stake that extends at least 1 meter above finished grade.
- 3.10 Movement of construction equipment and all other vehicles and loads over and adjacent to any casing pipe shall be done at the Contractor's risk. When determined by the Engineer, any casing pipe that is damaged or disturbed through any cause shall be replaced as directed by the Engineer at the expense of the Contractor and at no cost to the Authority.

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3. CONSTRUCTION DETAILS: (cont'd)

3.11 Carrier pipe within the casing will be installed by others at a later date.

4. METHOD OF MEASUREMENT:

4.01 The work will be measured as the number of feet along the axis of the casing in its final position, installed according to the plans or as directed by the Engineer. Measurement shall include all couplings and cuts.

5. BASIS OF PAYMENT:

5.01 The unit price bid per foot shall include all labor, equipment, and materials necessary to complete the work to the satisfaction of the Engineer, including welding, installation of casing spacers and end seals.

5.02 The cost of excavation, backfill, select granular fill, and any excavation protection system needed for the casing installation will be paid for under this item.