

**CASING PIPE FOR UTILITIES**

1. **GENERAL:**

1.1 **RELATED DOCUMENTS:**

1.1.1 Provide all labor, materials, equipment and services indicated on the Drawings, or specified herein or reasonably necessary for or incidental to a complete job.

1.2 **DESCRIPTION OF WORK:**

1.2.1 The Work includes the installation of all casing pipes under surface structures, as indicated on the Drawings.

1.3 **QUALITY ASSURANCE:**

1.3.1 The Engineer or his designated representative shall be in charge of inspection of the casing pipe installation and the contractor must follow his instructions. Acceptance will be on the basis of design, material tests and inspection of the complete product.

2. **PRODUCTS:**

2.1 **CASING PIPE:**

2.1.1 Steel complying with ASTM A139 for Grade B with minimum yield strength of 35,000 psi. Provide ends suitable for field welding.

2.1.2 Minimum wall thickness as follows:

Diameter of casing (inches)	Minimum Wall Thickness (inches)
6 thru 14	1/4
16 and 18	5/16
20 and 22	3/8
24 and 26	7/16
28 thru 32	1/2
34 thru 42	9/16

3. **EXECUTION:**

3.1 **ENTRY PITS:**

3.1.1 Locate as shown in the Drawings and as to avoid interference with traffic, adjacent structures, etc. to such extent possible

3.1.2 Excavate to required depth, providing sheeting and shoring, as per Document 02300, necessary for protection of the Work and for safety of personnel.

3.1.3 Maintain in dry condition by use of pumps, drains or other approved method.

3.2 **INSTALLATIONS:**

3.2.1 Install casings by dry boring through the casing while simultaneously jacking the casing.

3.2.2 Any proposed alternate method shall be approved in writing by the Engineer.

3.2.3 Weld joints to provide a watertight joint.

3.2.4 Casings shown to be installed to grade shall not vary more than 3/32's of an inch per foot of length from the indicated grade. Remove and replace any improperly installed or otherwise defective casing at no additional cost to the Owner.

3.2.5 Seal each end with concrete plugs as shown on the detail drawings.

(End of Document 02780)