

PART 331 – WATER TABLE CRADLE

- 331.1 The work under this item shall include furnishing and installing Water Table Cradle as shown on the drawings or as directed by the Engineer and in accordance with the Standard Detail for Water Table Cradle.
- 331.2 The trench excavation shall be completely dewatered to provide a dry and stable trench bottom. The trench shall be excavated to a minimum of 18 inches below the bottom of the pipe. If additional base stabilization is required crushed stone, 3-1/2-inch to 1-1/2-inch (Gradation No. 1), shall be installed on the trench bottom, prior to the installation of water table cradle. Minimum trench widths for flexible pipe installations shall be as shown in the Standard Detail No. 367.
- 331.3 Geotextile filter fabric shall be installed on the trench bottom and walls. Crushed stone shall be installed in the trench directly on the filter fabric to a height of 12 inches above the top of the pipe. The crushed stone bedding material shall be carefully worked and compacted around the pipe. The filter fabric shall be placed over the top of the crushed stone with a minimum 24-inch lap. All fabric joints shall be lapped a minimum of 18 inches. Water Table Cradle shall be installed for the full excavated width of the trench.
- 331.4 Crushed stone for Water Table Cradle shall be Gradation No. 57, 1-inch to No. 4. The Geotextile Filter Fabric shall be a nonwoven, needle punch constructed fabric inert. The fabric unit weight shall be not less than 13 ounces per square yard with a Mullen Burst Strength (ASTM D3786) of not less than 600 psi.
- 331.5 Payment: Payment for Water Table Cradle will be made at the unit price bid per linear foot for the specified diameter of pipe. The unit price shall include the cost of all labor, equipment, and materials required. No additional payment will be made for dewatering or crushed stone required for additional base stabilization.