



**SPECIAL PROVISIONS
FOR
JOINT TESTING**

**Fremont County
STP-333-1(030)--2C-36**

**Effective Date
October 17, 2023**

THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

230016.01 DESCRIPTION.

The work covered by these Special Provisions consists of furnishing all labor and materials and performing all operations in connection with the joint testing of the RCP, as shown in the contract documents.

230016.02 MATERIALS.

- A.** Furnish joint testing unit capable of testing pipe joints to 10 psi.
 - 1. The joint tester shall be a double-bladder large diameter joint tester acceptable to the Engineer.
 - 2. The unit shall consist of a control panel and necessary pump, gages, valves, and hoses.
 - 3. The gages shall be calibrated by an independent testing laboratory approved by the Engineer.
 - 4. The results of the calibration shall be submitted to the Engineer for approval prior to commencing tests.
- B.** Provide water for the testing fluid.

230016.03 CONSTRUCTION.

- A.** Joint testing shall be completed after the pipe has been installed but prior to placing flowable mortar and backfill.
- B.** After backfilling the pipe, the Engineer may require additional testing of any joints which by inspection do not appear to be watertight.
- C.** Notify the Engineer 24 hours prior to each test.

- D. Test at the 10 PSI minimum pressure for 20 minute duration.
 - 1. The allowable pressure drop shall be determined by averaging the results of three 20 minute tests conducted at the required 10 PSI minimum pressure on a straight, nonjointed section of pipe that has been prepared in the same manner as the joint.
 - 2. Required joint pressure equals test pressure minus allowable pressure drop.
 - 3. Obtain approval from Engineer of allowable pressure drop calculation.
 - 4. Joints that fail to maintain pressure shall be disassembled and all inferior elements replaced.
 - 5. Mark any joint which does not maintain the required pressure for the 20 minute duration.
 - 6. Joints shall be retested and corrections made as necessary to meet the pressure test described above.
- E. All work shall be approved by Engineer.
- F. Records of joint testing shall be furnished to the Engineer.
- G. Defects or visible leakage from joints or pipe:
 - 1. The subgrade shall be inspected at the end of joint testing to determine if the portion of the joints in contact with the ground has leaked.
 - 2. Defects or visible leakage from joints or pipe shall be corrected.
 - 3. Defective pipe or joints disclosed in the hydrostatic test shall be replaced and the test repeated until the results are satisfactory to the Engineer.

230016.04 METHOD OF MEASUREMENT.

Joint testing will not be measured separately for payment but will be a lump sum item.

230016.05 BASIS OF PAYMENT.

- A. Payment for Joint Testing will be the lump sum contract price.
- B. The contract unit price for Joint Testing will be full compensation for providing all materials, labor, equipment, documentation, reporting, and incidentals to complete the work. Payment will not be allowed until joint testing produces satisfactory results.