

## **24.3 Part 3 Execution**

### **24.3.1 Installation**

- A. Install in accordance with manufacturer's recommendations using trench details, including bed, surround and backfill, as shown on the relevant Standard Drawings.
- B. Verify dimensions of pipes and fittings to assure work will fit together properly and conform to the arrangement shown on the drawings.
- C. Accurately determine dimensions essential for proper location and orientation of pipes.

### **24.3.2 Bedding**

- A. Excavate pipe trench in accordance with Section 02225 for work of this specification. Hand trim excavation for accurate placement of pipe to elevations indicated.
- B. Granular material for bedding to Reinforced Concrete Pipes, refer to Section 02207
- C. Concreting Pipeline Bed, or Bed and Surround, refer to Section 02810

### **24.3.3 Field Joints of Liner of Concrete Pipes and Fittings:**

- A. Do not make field joint to the liner until the lined pipe has been backfilled and pipe tests have been completed. Where groundwater is encountered, do not make any field joint until pumping of the ground water has been discontinued and no visible leakage is evident at the joint. Ensure that the liner at joints are free of foreign materials. Ensure that the liner at joints are clean and dry before joints are made.
- B. Ensure that any hot material is not in contact with the liner.
- C. Do not apply coating of any kind over any joint, corner, or welding strip, except where non-skid coating is applied to liner surfaces.
- D. Do not apply adhesive to the surfaces of pipe joints, or the liner or the joints strips.
- E. Ensure that the surface is clean to permit visual inspection and spark-testing. Physically test all welds with a non-destructive probing method. The Engineer may request to test installed liner using a spark type detector at 20,000 volts. Properly repair and reset all areas of liner failing to meet the field test.