I. Dimensions of end sections may vary slightly from those shown on the tables due to different manufacturing processes.

2. Concrete end sections shall be furnished with tongue or groove as required.

3. Concrete end sections shall be furnished with tongue or groove as required. Any additional pipe required to provide the design length shall be furnished by the contractor at no additional cost to the project.

4. The inside configuration and the joint of concrete end section and pipe shall match.

5. End sections for CMP arch pipe shall match the dimensions of the pipe shown on the plans.

6. Galvanized toe plate as shown is required on end sections for corrugated steel pipe and shall be the same thickness as end sections. Toe plate shall be field-soldered to end section with %-in. galvanized bolts, nuts, and washers.

7. Galvanized steel shall conform to AASHTO M-218 or M-232.

8. Concrete pipe joint fasteners, where shown on plans, shall be installed so that a minimum of 1 linear foot of the outlet end of the pipe are mechanically locked together. End section lengths used shall be included in the #21 LF requirement.

9. Connections of metal end sections to plastic pipe shall be approved by the engineer. Connection of metal end sections to plastic pipe shall not be used.

10. The end section style, either regular or safety, shall be as shown on the plans.

11. Acceptable equivalent culvert pipe length, item 35, through item 36 inches in diameter and smaller, and conform to AASHTO M-86 and subsection 707.09.

Flexible Round Pipe

Flexible Pipe Arch

Reinforced Concrete Circular Pipe

Concrete and Metal End Sections

General Notes:

1. Dimensions of end sections may vary slightly from those shown on the tables due to different manufacturing processes.

2. Concrete end sections shall be furnished with tongue or groove as required.

3. Design length of pipe or side drain is based on length of end section shown in table. Any additional pipe required to provide the design length shall be furnished by the contractor at no cost to the project.

4. The inside configuration and the joint of concrete end section and pipe shall match.

5. End sections for CMP arch pipe shall match the dimensions of the pipe shown on the plans.

6. Galvanized toe plate as shown is required on end sections for corrugated steel pipe and shall be the same thickness as end sections. Toe plate shall be field-soldered to end section with %-in. galvanized bolts, nuts, and washers.

7. Galvanized steel shall conform to AASHTO M-218 or M-232.

8. Concrete pipe joint fasteners, where shown on plans, shall be installed so that a minimum of 1 linear foot of the outlet end of the pipe are mechanically locked together. End section lengths used shall be included in the #21 LF requirement.

9. Connections of metal end sections to plastic pipe shall be approved by the engineer. Connection of metal end sections to plastic pipe shall not be used.

10. The end section style, either regular or safety, shall be as shown on the plans.

11. Acceptable equivalent culvert pipe length, item 35, through item 36 inches in diameter and smaller, and conform to AASHTO M-86 and subsection 707.09.

Connecting metal end sections to plastic pipe shall be approved by the engineer. Connection of metal end sections to plastic pipe shall not be used.