### Dimensions

<table>
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<tr>
<th>SKEW ANGLE DEGREE</th>
<th>FLARE ANGLE DEGREE</th>
<th>NON-TYPE 1 DIA.</th>
<th>TYPE 1</th>
<th>TYPE 2</th>
<th>TYPE 3</th>
</tr>
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#### Notes:

1. **Reinforcement Bars:** Shall be in accordance with ASTM A-416, Grade 4047.
2. **Laps in Reinforcement:** Bars shall be 300 mm in length and clear cover 50 mm.
3. **Exposed Edges:** Shall have 20 x 20 chamfers.
4. **Compaction Pressure:** Walls not to exceed 15 kPa.
5. **Concrete:** Shall comply with AASHTO M-153, Standard Specification for Concrete, 1999 edition.
6. **Concrete Mix Design:** Shall conform to the standard practice in accordance with the relevant provisions of AASHTO.

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### Plan

```
  Skewed Multiple Pipe Culverts 1500 to 2100 Dia.
  Mass Concrete Wall
  Types 1, 2, & 3
```

### General Notes:

- **All dimensions are in millimeters.**
- **Culvert inlet and outlet structures - selection guide:** See Table 17021.

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### Diagram

**Section A-A**

**End Elevation**

**See Note 1**

**Two 12 Dia. Bars Continuous Around Top of Structure**

**All Reinforcement Bars are 12 Dia.**

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**APPENDIX**

**Note 1.1:** Theoretical slope of wall measured at right angles to the roadway.

**Note 1.2:** Approximate only.