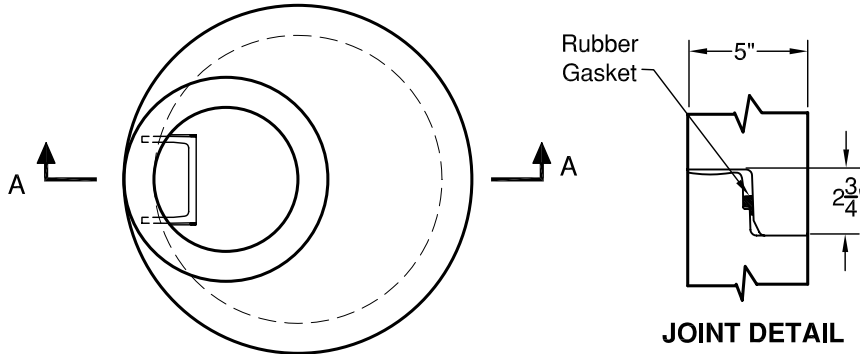
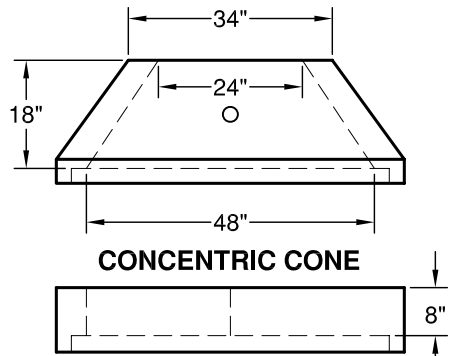
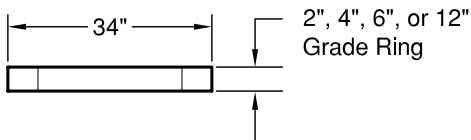


# 48" Manhole

Meets or Exceeds WSDOT Std Plan B-15.20-00  
 Manholes Constructed in Accordance with ASTM C-478  
 Rubber Gasket Conforms to ASTM C-443  
 Polypropylene MH Steps Conform to ASTM C-478

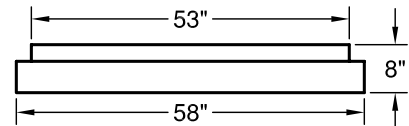


**PLAN VIEW**

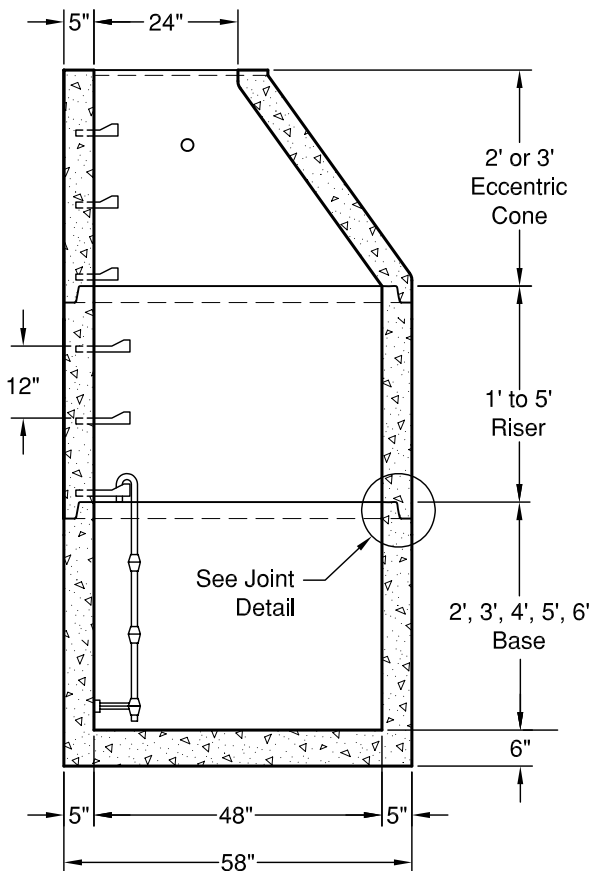


**CONCENTRIC CONE**

**TOP SLAB**



**BASE SLAB**



**SECTION AA**

**WEIGHTS:**

- CONE: 2' - 1,740 lbs
- CONE: 3' - 2,540 lbs
- TOP SLAB: 8" - 1,580 lbs
- RISER: 1' - 1,020 lbs
- 2' - 1,900 lbs
- 3' - 2,660 lbs
- 4' - 3,540 lbs
- 5' - 4,420 lbs
- BASE: 2' - 3,200 lbs
- 3' - 4,800 lbs
- 4' - 5,300 lbs
- 5' - 6,420 lbs
- 6' - 7,540 lbs
- BASE SLAB: 8" - 1,900 lbs

**CONCRETE:**

Fc= 4,000 psi @ 28 Days

**REINFORCING STEEL:**

- Welded Wire Fabric: ASTM A185
- Rebar: ASTM A615 Grade 60
- Top Slab: 0.40 Sq in./ft e.w. min.
- Base w/integral Riser: 0.15 Sq in./lin ft min.
- Base Slab: 0.23 Sq in./ft e.w. min.

**PIPE PENETRATIONS:**

- Maximum Hole Size: 36"
- Minimum Distance Hole to Hole: 8"
- Holes Cored to Plan Specifications
- Kor-N-Seal Connectors Available
- Standard Knockouts Available



**GRANITE™**

**PRECASTING & CONCRETE INC.**

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