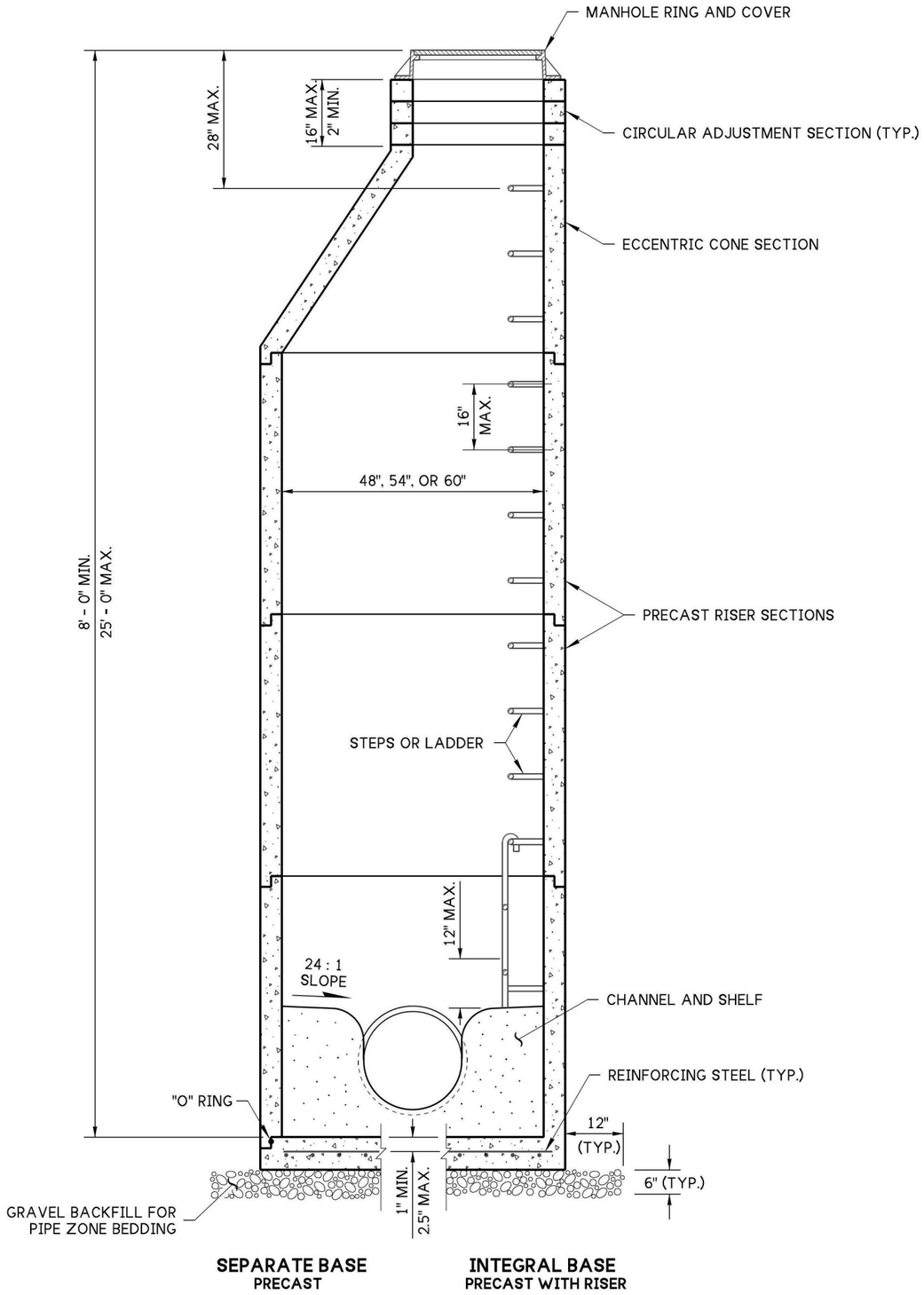
DRAWN BY: LISA CYFORD




**NOTES**

1. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum.
2. For pipe allowances, see **Standard Plan B-10.20**.
3. The minimum distance between knockouts is measured from inside wall of the structure.
4. Reinforcing steel shall meet requirements of **ASTM C478**.

| MANHOLE DIMENSION TABLE | | | | |
|---|---|---|---|---|
| **DIAMETER** | **MINIMUM WALL THICKNESS** | **MINIMUM BASE THICKNESS** | **MAXIMUM KNOCKOUT SIZE** | **MINIMUM DISTANCE BETWEEN KNOCKOUTS** (SEE NOTE 3) |
| **48"** | **4"** | **6"** | **36"** | **8"** |
| **54"** | **4.5"** | **8"** | **42"** | **8"** |
| **60"** | **5"** | **8"** | **48"** | **8"** |

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Aug 22, 2026

## MANHOLE TYPE 1

## STANDARD PLAN B-15.20-02

**SHEET 1 OF 1 SHEET**

**APPROVED FOR PUBLICATION**

Mark A Doires Aug 24, 2026

STATE DESIGN ENGINEER

**Washington State Department of Transportation**