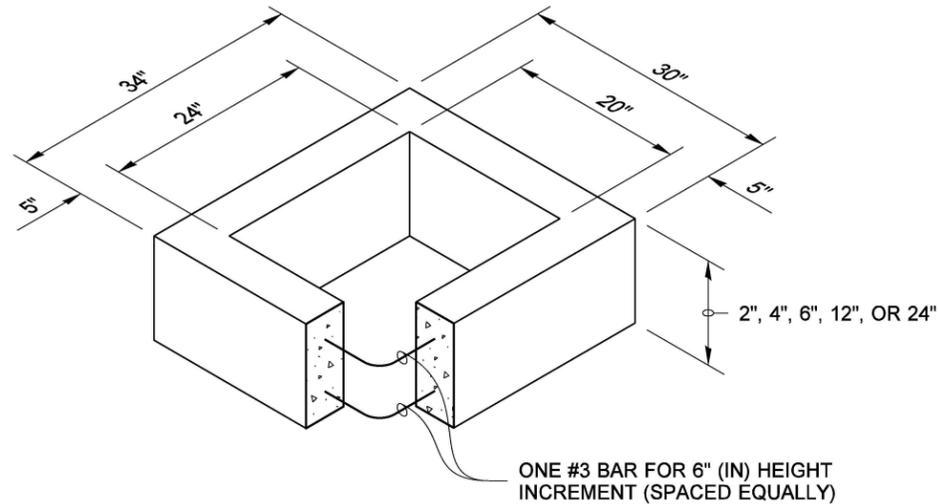
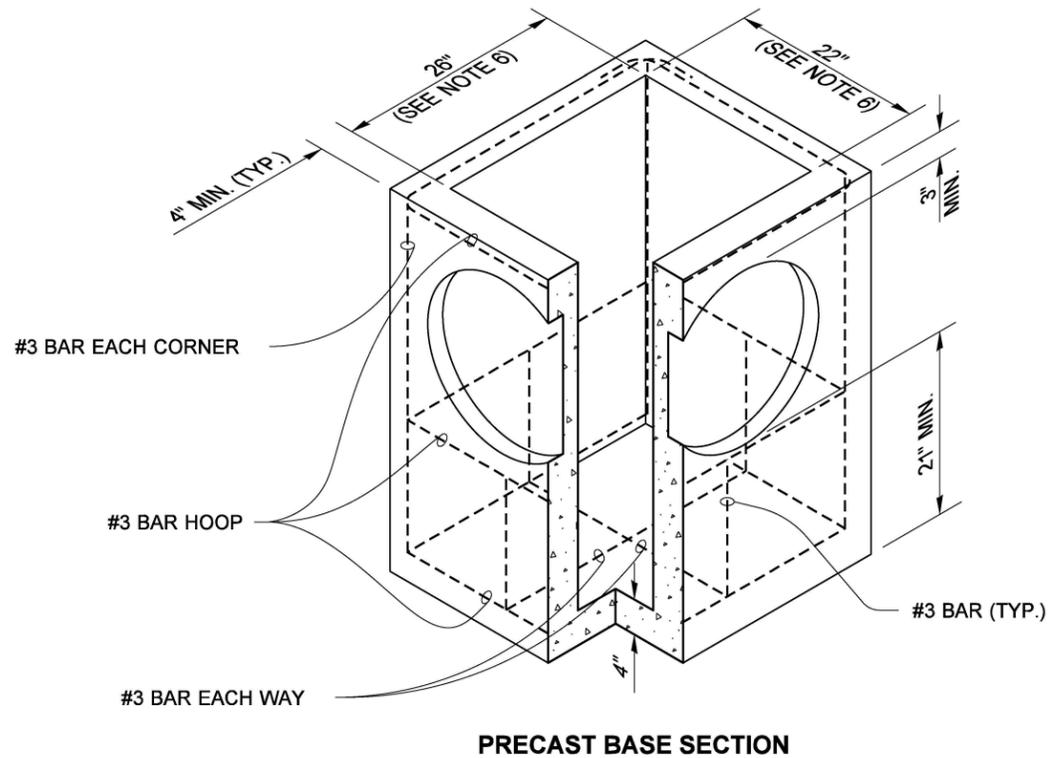


**FRAME AND VANED GRATE**



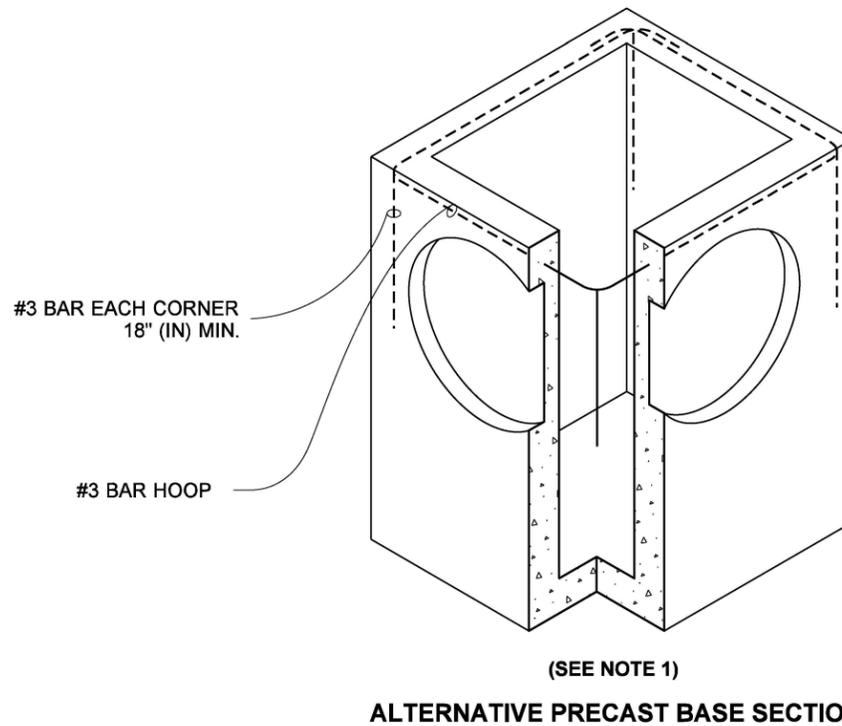
**RECTANGULAR ADJUSTMENT SECTION**



**PRECAST BASE SECTION**

| PIPE ALLOWANCES                                |                                  |
|--|----------------------------------|
| PIPE MATERIAL                                  | MAXIMUM INSIDE DIAMETER (INCHES) |
| REINFORCED OR PLAIN CONCRETE                   | 12"                              |
| ALL METAL PIPE                                 | 15"                              |
| CPSSP * (STD. SPEC. SECT. 9-05.20)             | 12"                              |
| SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))   | 15"                              |
| PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2)) | 15"                              |

\* CORRUGATED POLYETHYLENE STORM SEWER PIPE



**ALTERNATIVE PRECAST BASE SECTION**

**NOTES**

- As acceptable alternatives to the rebar shown in the **PRECAST BASE SECTION**, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the **ALTERNATIVE PRECAST BASE SECTION**. Wire mesh shall not be placed in the knockouts.
- The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with **Standard Specification Section 9-04.3**.
- The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
- The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
- The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
- The opening shall be measured at the top of the **Precast Base Section**.
- All pickup holes shall be grouted full after the basin has been placed.



*Julie Heilman* Julie Heilman  
2020.09.01 07:52:50 -07'00'

**CATCH BASIN TYPE 1**

**STANDARD PLAN B-5.20-03**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
**Roark, Steve** Digitally signed by Roark, Steve  
 Date: 2020.09.09 09:45:23 -07'00'  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation