GENERAL NOTES

1. The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalk and/or border.

2. For inlets constructed on a curve, refer to the plans to determine the radius and modify the inlet details accordingly. Bend steel when necessary.

3. All reinforcing steel to be Grade 60 bars with 1½' minimum cover unless otherwise shown, see Sheet 4 for equivalent Welded Wire Reinforcement details.

4. Inlet tops shall be either cast-in-place or precast concrete. Precast units shall conform to the dimensions shown or in accordance with approved shop drawings. Request for shop drawing approval shall be directed to the State Drainage Engineer.

5. Concrete meeting the requirements of ASTM C478 (4,000 psi) may be used in lieu of Class 11 concrete for precast units, manufactured in plants which meet the requirements of Section 449 of the Specifications.

6. Corner fillets are required at inlet opening for precast units or C-I-P units used in conjunction with circular inlet bottoms or skewed rectangular inlet boxes. Finish top of fillets flush with drain throat bottom and match slope.

7. For inlet bottoms see Index No. 200. Inlet tops are to be used with Type P bottoms, or Type J bottoms with 3'-6" square (Type B), 3'-6" or 4' round (Type A) risers or top slab openings.

8. These inlet tops are designed for use with standard curb and gutter Type E and Type F. Locate inlet outside of pedestrian crosswalks. For Type E curb, transition the shape of the curb over the gutter transition length to match the face of the inlet (Type F).

9. See Index No. 201 for supplemental details.

10. All steel used for frame and grate shall meet the requirements of ASTM A36/A36M.

11. Either cast iron grates or steel grates may be used.

12. When Alternate "G" grate is specified in the plans either the cast iron grate and galvanized steel frame or the the galvanized steel grate and frame must be used. Grates are to be grouted in accordance with the grouting detail shown on Sheet 5. In lieu of tack wiring, see Sheet 4 for equivalent area Welded Wire Reinforcement details.

13. Inlet to be paid for under the contract unit price for Inlets (Curb) (Type _), Each.

14. Precast Inlets and Type P Inlets may be used with Type F Curb, if the inlet tops are not be used with Type P bottoms, or Type J bottoms with 3'-6" square (Type B), 3'-6" or 4' round (Type A) risers or top slab openings.

15. See Index No. 201 for supplemental details.

16. Inlet bottoms shall be either cast-in-place or precast concrete. Precast units shall conform to the dimensions shown or in accordance with approved shop drawings. Request for shop drawing approval shall be directed to the State Drainage Engineer.

17. Concrete meeting the requirements of ASTM C478 (4,000 psi) may be used in lieu of Class 11 concrete for precast units, manufactured in plants which meet the requirements of Section 449 of the Specifications.

18. Concrete for precast units, manufactured in plants which meet the requirements of Section 449 of the Specifications.

19. Reinforcing steel to be Grade 60 bars with 1½' minimum cover unless otherwise shown, see Sheet 4 for equivalent Welded Wire Reinforcement details.

20. Inlet tops shall be either cast-in-place or precast concrete. Precast units shall conform to the dimensions shown or in accordance with approved shop drawings. Request for shop drawing approval shall be directed to the State Drainage Engineer.

21. Inlet to be paid for under the contract unit price for Inlets (Curb) (Type _), Each.

INLET TYPE 5 (Curb Inlet Type 6 Symmetrical With Left Half)
**SECTION DD**
(End View Of Inlet)

**SECTION EE**

**SECTION FF**

**SECTION GG**

**SECTION HH**
(Type 5 Inlet Only)

**PRECAST DETAILS**
# Curb Inlet Tops Types 5 and 6

## Alternate Reinforcing Steel Details for Welded Wire Reinforcement (WWR)

### Placement Schematic for Welded Wire Reinforcement Piece No. 1

- **Cut Dotted Portion of Mat**
- **WWR Symmetrical About**
- **As Required To Maintain Cover**

### Placement Schematic for Welded Wire Reinforcement Piece No. 2

- **Cut Dotted Portion of Mat**
- **WWR Symmetrical About**
- **As Required To Maintain Cover**

### Placement Schematic for Welded Wire Reinforcement Piece No. 3

- **Cut Dotted Portion of Mat**
- **As Required To Maintain Cover**

## Conventional Reinforcing Steel Bending Diagrams

### Bill of Reinforcing Steel

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE</th>
<th>TYPE 5 INLET</th>
<th>TYPE 6 INLET</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (Precast)</td>
<td>4</td>
<td>25</td>
<td>3'-2&quot;</td>
</tr>
<tr>
<td>B (C-P)</td>
<td>4</td>
<td>25</td>
<td>2'-10&quot;</td>
</tr>
<tr>
<td>C</td>
<td>4</td>
<td>6</td>
<td>1'-3&quot;</td>
</tr>
<tr>
<td>D</td>
<td>4</td>
<td>4</td>
<td>1'-3&quot;</td>
</tr>
<tr>
<td>E</td>
<td>4</td>
<td>16</td>
<td>0'-11&quot;</td>
</tr>
<tr>
<td>F</td>
<td>4</td>
<td>1</td>
<td>0'-6&quot;</td>
</tr>
<tr>
<td>G</td>
<td>4</td>
<td>3</td>
<td>1'-6&quot;</td>
</tr>
<tr>
<td>H</td>
<td>4</td>
<td>4</td>
<td>1'-6&quot;</td>
</tr>
<tr>
<td>J</td>
<td>4</td>
<td>4</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>K (Filet)</td>
<td>4</td>
<td>2</td>
<td>2'-3&quot;</td>
</tr>
<tr>
<td>L (Precast)</td>
<td>4</td>
<td>1</td>
<td>0'-4&quot;</td>
</tr>
<tr>
<td>M (C-P)</td>
<td>4</td>
<td>10</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>N</td>
<td>4</td>
<td>7</td>
<td>3'-2&quot;</td>
</tr>
</tbody>
</table>

**Reinforcing Steel Notes:**
1. All bar dimensions in the bending diagrams are out to out.
2. Bars 4a and 4e may be combined into a single bar.
3. Welded Wine Reinforcement consists of Smooth or Deformed wire meeting the requirements of Specification Section 931.

**typical section showing Welded Wire Reinforcement**

---

### ALTERNATE REINFORCING STEEL DETAILS FOR WELDED WIRE REINFORCEMENT (WWR)

- **D17.2 or W18.5**
- **Welded Wire Reinforcement consists of a single bar.**
- **Bars 4a and 4e may be combined into a single bar.**
- **Welded Wire Reinforcement consists of Smooth or Deformed wire meeting the requirements of Specification Section 931.**

**BILL OF REINFORCING STEEL**

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE</th>
<th>TYPE 5 INLET</th>
<th>TYPE 6 INLET</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (Precast)</td>
<td>4</td>
<td>25</td>
<td>3'-2&quot;</td>
</tr>
<tr>
<td>B (C-P)</td>
<td>4</td>
<td>25</td>
<td>2'-10&quot;</td>
</tr>
<tr>
<td>C</td>
<td>4</td>
<td>6</td>
<td>1'-3&quot;</td>
</tr>
<tr>
<td>D</td>
<td>4</td>
<td>4</td>
<td>1'-3&quot;</td>
</tr>
<tr>
<td>E</td>
<td>4</td>
<td>16</td>
<td>0'-11&quot;</td>
</tr>
<tr>
<td>F</td>
<td>4</td>
<td>1</td>
<td>0'-6&quot;</td>
</tr>
<tr>
<td>G</td>
<td>4</td>
<td>3</td>
<td>1'-6&quot;</td>
</tr>
<tr>
<td>H</td>
<td>4</td>
<td>4</td>
<td>1'-6&quot;</td>
</tr>
<tr>
<td>J</td>
<td>4</td>
<td>4</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>K (Filet)</td>
<td>4</td>
<td>2</td>
<td>2'-3&quot;</td>
</tr>
<tr>
<td>L (Precast)</td>
<td>4</td>
<td>1</td>
<td>0'-4&quot;</td>
</tr>
<tr>
<td>M (C-P)</td>
<td>4</td>
<td>10</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>N</td>
<td>4</td>
<td>7</td>
<td>3'-2&quot;</td>
</tr>
</tbody>
</table>

**CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS**

**REINFORCING STEEL NOTES:**
1. All bar dimensions in the bending diagrams are out to out.
2. Bars 4a and 4e may be combined into a single bar.
3. Welded Wine Reinforcement consists of Smooth or Deformed wire meeting the requirements of Specification Section 931.

---

**TYPICAL SECTION SHOWING WELDED WIRE REINFORCEMENT**

- **Provide Conventional Rein. For Bar 4a, 4h & 4f**
- **Conventional Rein. Bar 4f**
- **Piece No. 2**
- **11/16" Cover**
- **Piece No. 3**
- **11/16" Cover**

**INDEX NO.**

**SHEET NO.**

---

**2016 DESIGN STANDARDS**

**INDEX NO.**

**SHEET NO.**
**REV 07/01/09**

**DESCRIPTION:**

**2016 DESIGN STANDARDS**

**CURB INLET TOPS TYPES 5 AND 6**

**INDEX NO.**

**SHEET NO.**

---

**SECTION NN**

**TOP VIEW CAST IRON GRATE**

**SECTION GG**

**SECTION SS**

**TOP VIEW**

**SECTION RR**

**CAST IRON GRATE**

**SECTION MM**

**SECTION QQ**

**SECTION XX**

**STEEL GRATE**

**ANCHOR DETAIL**

---

**GROUTING DETAILS**

---

**CROSS REFERENCES:**

For Location Of Section GG and QQ

See Sheet 1.