1. The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalks 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 area 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 C471 (4,000 psi) may be used in lieu of Class III 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 welding.

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

GENERAL NOTES

Inlet Type 5 (Curb Inlet Type 6 Symmetrical With Left Half)

SKETCH SHOWING FRAME SEAT AND THROAT RECESS
SECTION DD
(End View Of Inlet)

- Top Of Curb
- Control Line
- 1'-0" to 2'-0"
- Optional 3" Radius
- Theoretical Depression Else.

SECTION EE

- Field Cut Bars To Maintain 1 1/2" Cover
- Varies (1'-8" Min. to 2'-0" Max.)
- 3" - 4" X 8" X 10"
- Circular, 9" Min. or If Top Slab Present, Top Slab Thickness Plus 3"
- Pipe Shall Not Be Constructed Within These Limits
- 9" Min. or If Top Slab Present, Top Slab Thickness Plus 3"
- Top Of Pipe

SECTION FF

- Slope To Match Adjacent Curb With 2" Top Radius And ½" Bottom Chamfer Or 1½" Radius
- Bars 4A @ 5" Sp.
- Bars 4C @ 5" Sp.
- Bars 4D @ 5" Sp.
- Bars 4E @ 5" Sp.
- Bars 4F @ 12" Sp.
- Bars 4G @ 5" Sp.
- Bars 4H In Corners

SECTION GG

- PreCast Details
- Section DD
- Through HH See Sheet 1
- For General Notes See Sheet 1

SECTION HH
(Type 5 Inlet Only)

- Inlet Button Or Riser (Type Varies, See Note 4, Sheet 1)
- Bars 4H In Corners
- Bars 4I (Placed As Shown)
- Bars 4J
- Bars 4K (Diag. Fillet)
- Bars 4L (Placed)
- Bars 4S @ 8"
- Bars 4A @ 5" Sp.
- Bars 4C @ 5" Sp.
- Bars 4E @ 5" Sp.
- Bars 4F @ 12" Sp.
- Bars 4G @ 5" Sp.
ALTERNATE REINFORCING STEEL DETAILS FOR WELDED WIRE REINFORCEMENT (WWR)

BILL OF REINFORCING STEEL

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE</th>
<th>TYPE 5 INLET</th>
<th>TYPE 6 INLET</th>
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<tbody>
<tr>
<td></td>
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<td>NO.</td>
<td>LENGTH</td>
</tr>
<tr>
<td>A</td>
<td>4</td>
<td>25</td>
<td>3'-1&quot;</td>
</tr>
<tr>
<td>A (C-I-P)</td>
<td>4</td>
<td>25</td>
<td>2'-15&quot;</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>6</td>
<td>1'-3&quot;</td>
</tr>
<tr>
<td>C</td>
<td>4</td>
<td>25</td>
<td>13&quot; to 1'-12&quot;</td>
</tr>
<tr>
<td>D</td>
<td>4</td>
<td>4</td>
<td>15'-8&quot;</td>
</tr>
<tr>
<td>E</td>
<td>4</td>
<td>16</td>
<td>4'-11½'</td>
</tr>
<tr>
<td>F</td>
<td>4</td>
<td>3</td>
<td>6'-0&quot;</td>
</tr>
<tr>
<td>G</td>
<td>4</td>
<td>4</td>
<td>8'-0&quot;</td>
</tr>
<tr>
<td>H</td>
<td>4</td>
<td>4</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>K (Fillet)</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>1'-4&quot;</td>
</tr>
<tr>
<td>L (C-I-P)</td>
<td>4</td>
<td>10</td>
<td>1'-4&quot;</td>
</tr>
<tr>
<td>S</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 Wire Reinforcement consists of Smooth or Deformed wire meeting the requirements of Specification Section 931.

CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

TYPICAL SECTION SHOWING WELDED WIRE REINFORCEMENT

CURB INLET TOPS TYPES 5 AND 6

INDEX  No. 211

SHEET  No. 4 of 5

FY 2017-18 DESIGN STANDARDS