

Basis of Design

This section applies to the design and placement of concrete curbs.

Design Criteria

- Place concrete curbs between all pedestrian traffic and vehicle traffic. See Concrete Curb Cast-In-Place Detail.
- Place concrete curb and gutter between all roadways and sidewalks and between all roadways and planting areas. See Roadway and Sidewalk Cross Section drawing.

Design Evaluation

The following information is required to evaluate the design:

- Design Development Phase: Curb cuts and an outline specification
- Construction Document Phase: Details and specifications

Construction Submittals

- Provide standard industry submittal requirements.

Related Sections

- Facilities Services Design Guide - Roadways

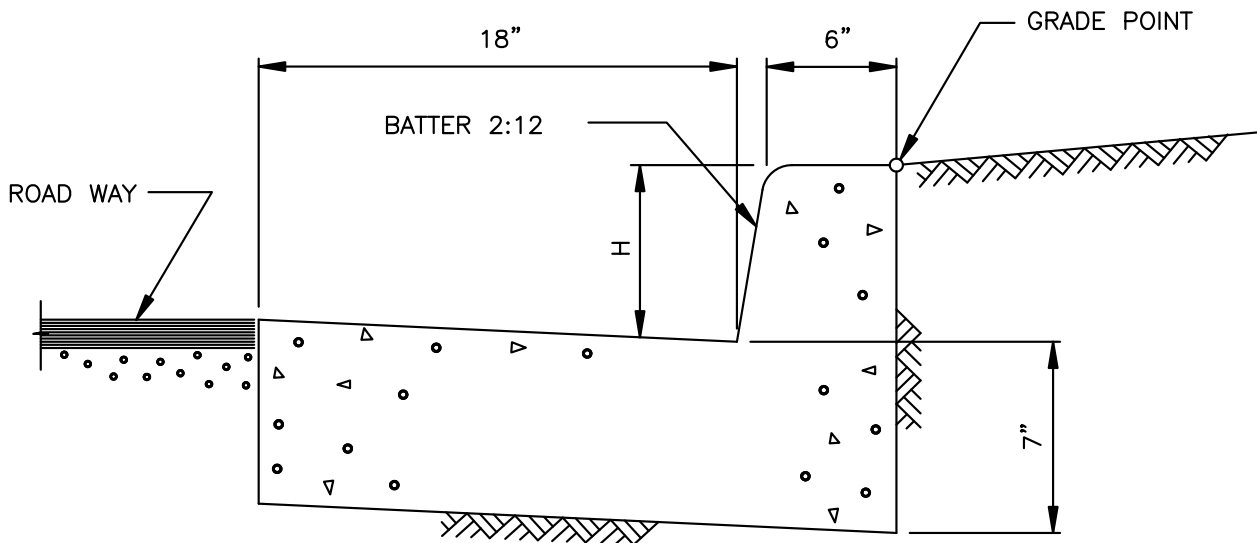
Products, Material and Equipment

- Portland cement shall conform to requirements of ASTM C-150.
- Sand shall conform to the requirements of ASTM 33.
- Reinforcing steel shall conform to requirements of A 615, grade 60.

Installation, Fabrication and Construction

- Construct PCC curbs with a #4 continuous longitudinal reinforcing bar at the top and bottom.
- Provide concrete curbs with a minimum compressive strength of 3,000 psi at 28 days.
- Cure curbs with liquid applied membrane.
- See Curb & Gutter Typical Type A-1 drawing.
- See Curb and Gutter Cast-In-Place drawing.
- See Concrete Extruded Curb drawing.

END OF DESIGN GUIDE SECTION



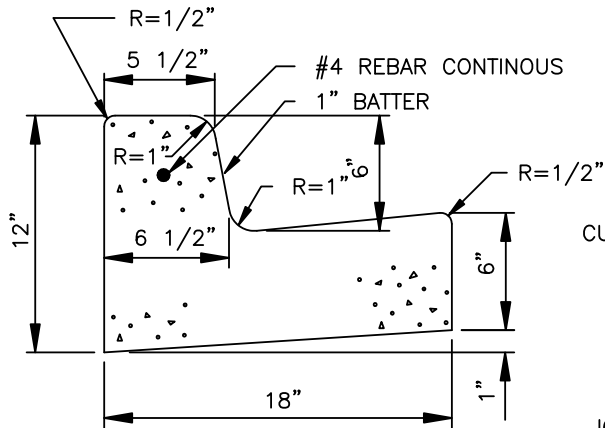
H = HEIGHT OF CURB ABOVE PAVEMENT SPECIFIED

NOTES:

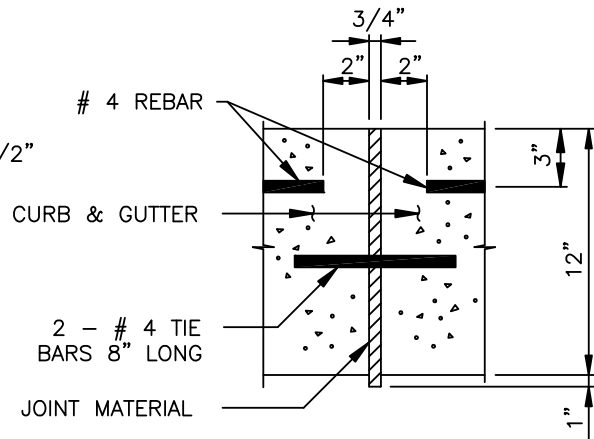
1. DIVISION PLATES & JOINTS TO BE SIMILAR TO THAT SHOWN, ONLY THE DIMENSIONS SHALL VARY AS NECESSARY FOR TYPE A - 1
2. FOR MORE DETAIL & NOTES INFORMATIONS SEE CONCRETE CURB DRAWING.

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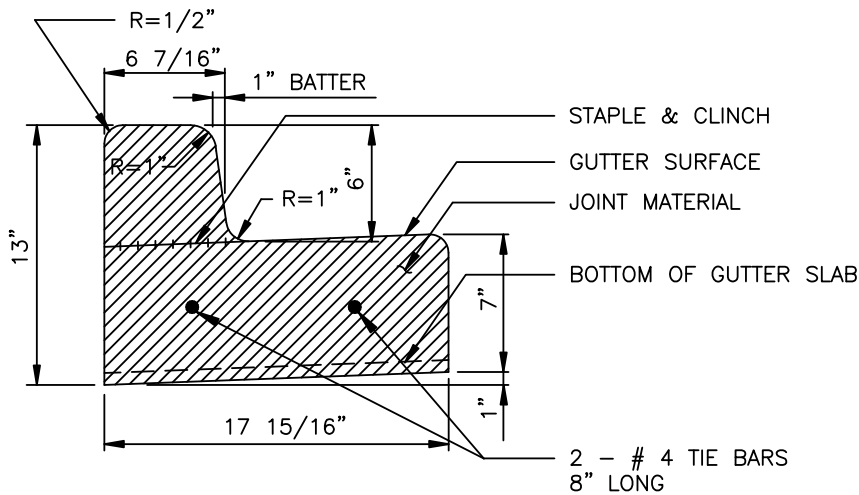
Typical Type A-1 Curb and Gutter



CURB & GUTTER SECTION



FULL DEPTH JOINT SECTION



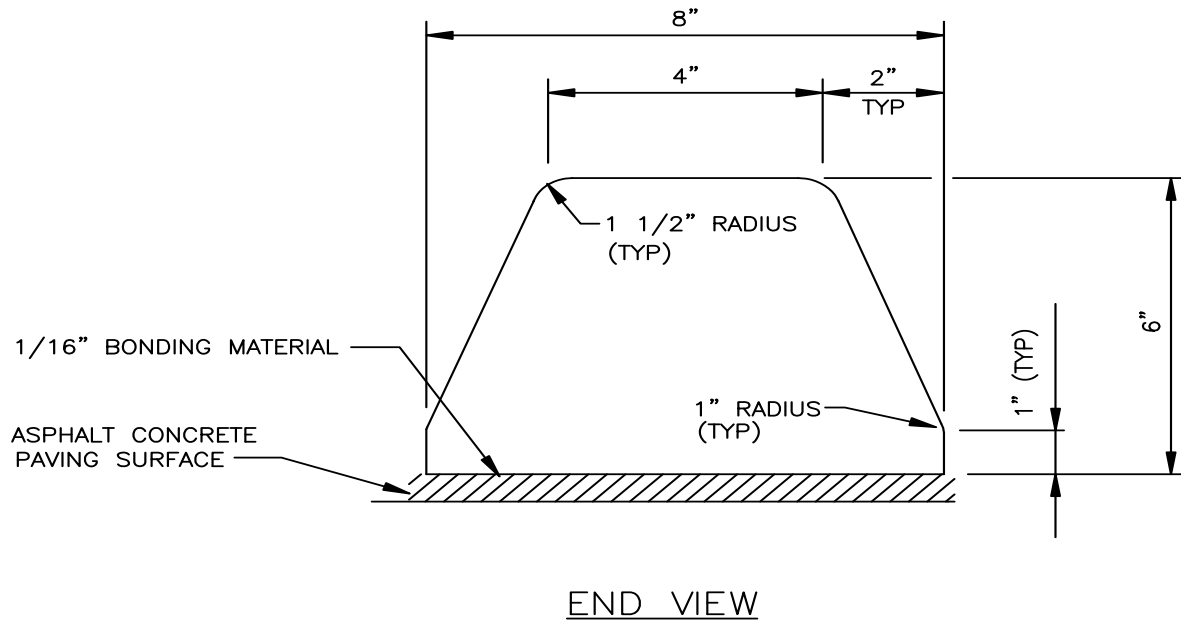
FULL DEPTH JOINT DETAIL

NOTES:

1. FULL DEPTH JOINTS TO BE USED WHERE THRU JOINTS ARE TO BE PLACED, OR AS DIRECTED BY THE ENGINEER. THRU JOINTS SHALL BE PLACED AT POINTS OF TANGENCY ON STREETS, ALLEY & DRIVEWAY RETURNS.
2. CONSTRUCTION JOINTS TO BE USED AT 10' MIN. 15' MAX. SPACING
3. CONSTRUCTION JOINTS OF NOT LESS THAN 3/16 THICKNESS SHALL BE OF THE SAME DIMENSIONS AS THE CURB & GUTTER EXCEPT THAT IT SHALL EXTEND 2 1/4" INTO GUTTER SECTION.
4. ALL JOINTS SHALL BE CLEAN & IN THE GUTTER SECTION THEY SHALL BE EDGED.
5. FORMS SHALL BE STEEL.
6. CONCRETE SHALL BE CEMENT CONCRETE CLASS 5(1 1/2) OR 5(3/4).

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Concrete Curb and Gutter Cast-in-Place



NOTES:

1. MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF CONCRETE 3,000 PSI.
2. SLUMP (ASTM DESIGNATION C-143) NOT OVER ONE INCH.
3. MAXIMUM COARSE AGGREGATE TO BE 3/4" SIZE.
4. THROUGH JOINTS SHALL BE MADE AT ALL POINTS OF TANGENTS TO RETURNS, AND NOT TO EXCEED FIFTEEN FEET INTERVALS ELSEWHERE.
5. JOINT WIDTH NOT TO BE GREATER THAN 1/4" NOR LESS THAN 1/8".

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Extruded Curb Concrete