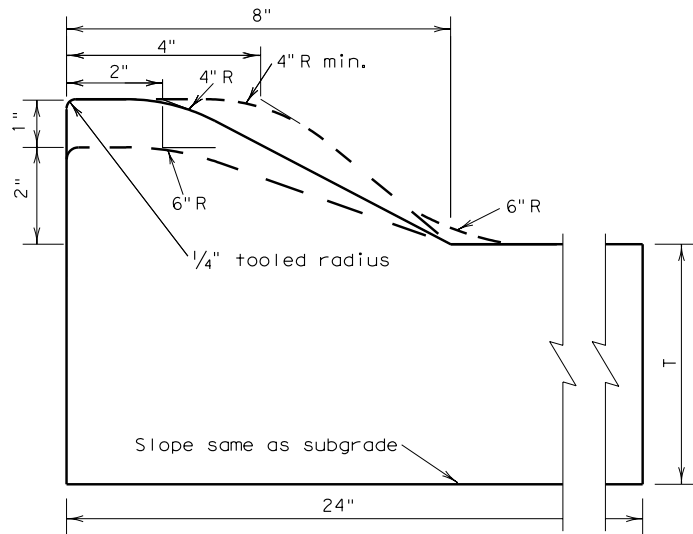
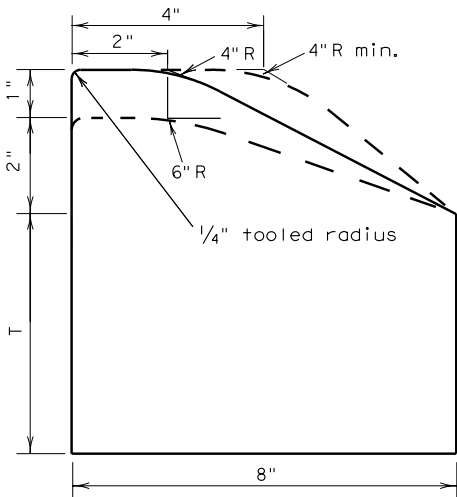


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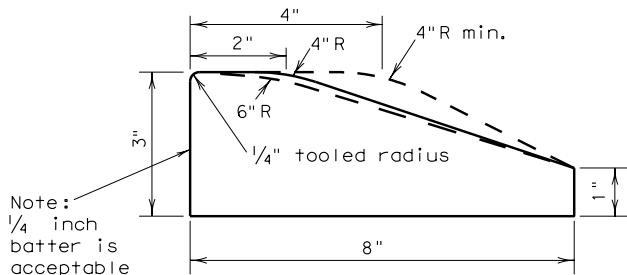
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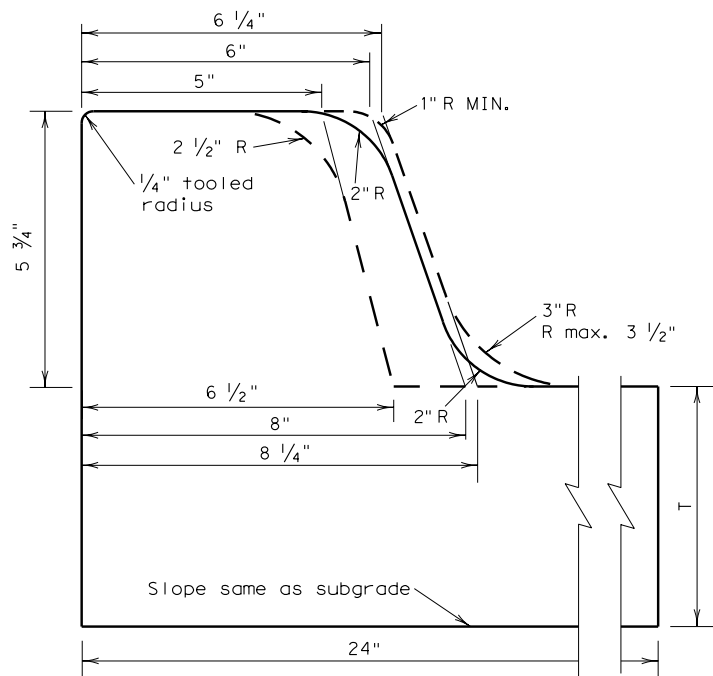
TYPE I CURB AND GUTTER



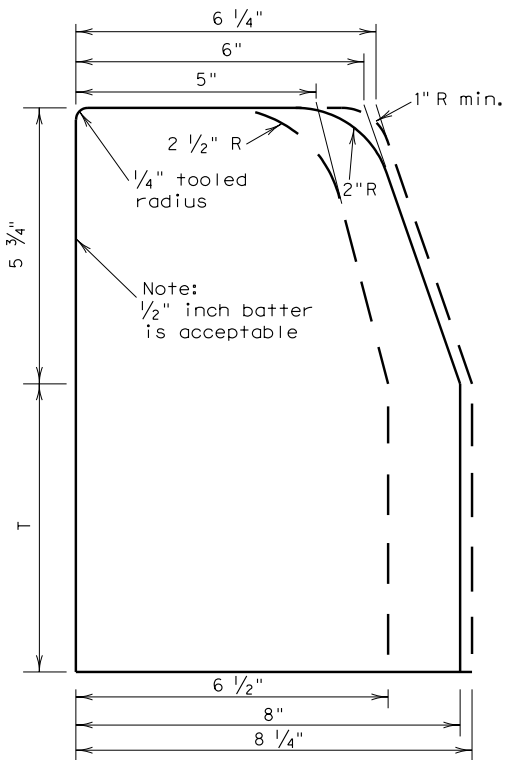
TYPE I CURB



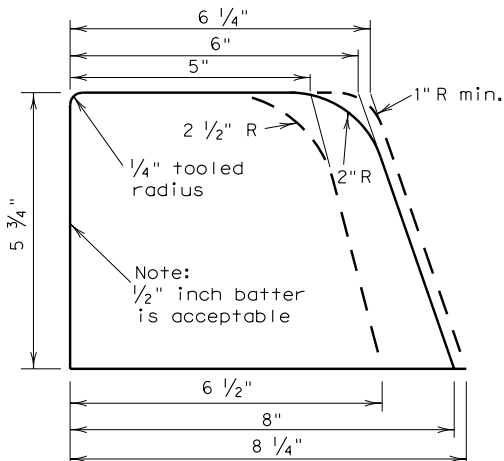
TYPE I MONO CURB OR CURB PLACED ON PAVEMENT



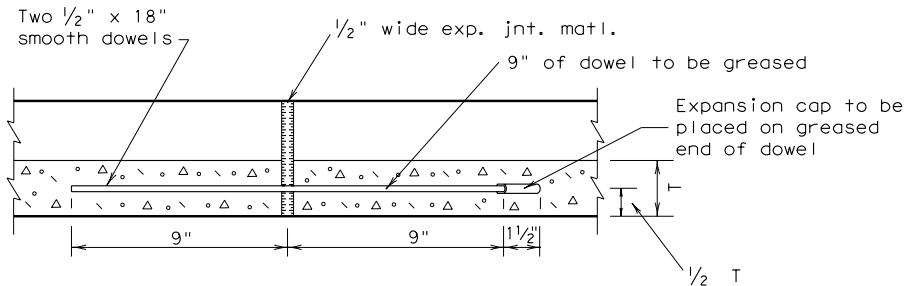
TYPE II CURB AND GUTTER



TYPE II CURB



TYPE II MONO CURB OR CURB PLACED ON PAVEMENT



Longitudinal section thru curb and gutter showing typical expansion joint details.

Reinforcing steel (when used) shall not cross expansion joints. Steel shall be terminated 3" ± 1" from face of the joint.

## GENERAL NOTES

- Contractor may use existing forms if the cross section lies within the band shown by dotted lines. If new forms are to be purchased, leased, or constructed they shall conform to the solid line.
- When reinforcing steel is required or placed at contractor's option, one of the following schemes of reinforcement shall be required. The manner of placement and location shall be to the satisfaction of the Engineer.
  - Type I, or Type II, curb and gutter reinforcement shall have longitudinal reinforcing bars as follows: Three #3, two #4, two #5, or one #6.
  - All types of curb (reinf.) shall have one #3 or #4 bar for longitudinal reinforcement.
- Reinforcing bars shall be lapped a minimum of 15".
- When curb or curb and gutter is placed by a separate pour adjacent to or atop concrete pavement, curb or curb and gutter shall be tied to pavement in a manner satisfactory to the engineer with 8-inch long #3 or #4 bars spaced at 5 feet and expansion and/or contraction joints of curb or curb and gutter shall match those of pavement.

When curb and curb and gutter is not constructed adjacent to concrete pavement, the following shall govern:

  - Reinforced curb or curb and gutter shall have no contraction joints.
  - Non-reinforced curb or curb and gutter shall have formed, tooled or sawed contraction joints at 10' ±. The depth of these joints shall be sufficient to ensure cracking at the joints.
  - Reinforcing curb or curb and gutter shall have expansion joints at points of curvature and at intervals no greater than 120' in all curves and at structures such as bridges, box culverts, curb inlets, etc.
  - Non-reinforced curb or curb and gutter shall have expansion joints at points of curvature on curves of radius less than 25' and at structures such as bridges, box culverts, curb inlets, etc.
- One-half inch expansion joint material shall be provided where curb or curb gutter is adjacent to sidewalk or riprap.
- Unless otherwise shown, transitions between curbs or curbs and gutters of differing cross section shall be accomplished over a 20 foot length or as approved by the Engineer.
- At contractor's option, dimension "T" may be thickness of pavement structure. In no case shall it be less than 6".
- See the RAMP standard sheet for information on curb ramps and sidewalks crossing driveways.

 **Texas Department of Transportation**  
Design Division (Roadway)

## CONCRETE CURB AND CURB AND GUTTER

CCCG-01

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