



Bridge Design Details 10.1 February 2025

Girder Reinforcement

The GIRDER REINFORCEMENT sheet is intended to delineate the main girder reinforcement including deck and soffit slab main reinforcement and bar cut-offs.

Plan

1. Orient the same as the GIRDER LAYOUT sheet and include North Arrow.
2. Usually, the same scale as the GIRDER LAYOUT sheet but not less than 1" = 10'.
3. Place TOP REINFORCEMENT at the top of the sheet and BOTTOM REINFORCEMENT below.
4. If all reinforcement will not fit on a sheet, detail all top reinforcement on ONE sheet and all bottom reinforcement on another sheet. Each sheet should cover the limits of a GIRDER LAYOUT "frame".
5. The GIRDER REINFORCEMENT sheets should follow the corresponding GIRDER LAYOUT sheet, with the bottom reinforcement preceding the top reinforcement.
6. Typically, only one exterior and interior bay needs to be shown.
7. Reference bar cut-offs from centerline of span (Bottom Reinforcement) or centerline of bent (Top Reinforcement). Identify centerline of Hinge Span.
8. Draw main continuous bars as heavy solid lines, and spliced bars as lighter weight solid lines.
9. Show outside edge of box and centerlines of girders.
10. For T-Beams show girder outlines and take a SECTION through the girder at the maximum number of bars.
11. Indicate hooks at the ends of continuous reinforcement where applicable.
 - a. For bottom reinforcement, at abutments and long cantilever side of a hinge.
 - b. For top reinforcement, usually at the short cantilever side of hinge.
12. Show bundle symbol on bars to be bundled together.



Standard Notes (use as required)

1. All reinforcement #__ unless otherwise noted.
2. Number at ends of bars indicates the distance in feet from centerline span or reference line for bottom reinforcement and centerline bent for top reinforcement.
3. No splices allowed in main girder reinforcement as designated in “No Splice Zones”.
4. Splices in continuous reinforcement shall be service level splices.
5. For reinforcement not shown, see “TYPICAL SECTION” sheet.