

6. Inspection Checklist

- Guardrail height is 31" ± 1" above finished grade.
- Guardrails are lapped in the proper direction.
- All splice bolts are securely fastened. Ensure the shoulder of each bolt is properly recessed into the face of the guardrail.
- All post bolts are securely fastened. Ensure the shoulder of each bolt is properly recessed into the face of the guardrail.
- Blockouts are 8" deep.
- Posts #1 through #9 are plug-welded posts and installed properly. All post bolts are installed on the side of the post opposite of the Impact Head.
- Standard steel W6x9# or W6x8.5# x 6'-0" posts are installed at post #10 and beyond.
- The Impact Head does not encroach on the shoulder.
- Posts 1 and 2 are spaced at 6'-3" on center along the direction of the guardrail.
- Posts 2 thru 9 are spaced at 3'-1.5" on center along the direction of the guardrail.
- Posts 9 and 10 are spaced at 6'-3" on center along the direction of the guardrail.
- The center of post #1 is offset from post #2 6" towards the traffic side.
- The center of the anchor post is 6'-3" from the center of post #1 and offset 3-1/2" from the field side of post #1 to the field side of the anchor base plate.
- The Impact Head is oriented correctly and securely fastened to post #1 with (1) 5/16"-16 grade 5 hex bolt at the top tab, SAE flat washers, and nuts. The feeder chute of the Impact Head should be parallel to the ground when the terminal is installed properly.
- The shelf bracket is securely fastened to post #1 below the terminal head with (2) 1/2"-13 grade 5 hex bolts, SAE flat washers, and nuts. The feeder chute does not need to touch the shelf bracket.
- The Impact Head is properly seated on the Anchor Rail with the folder touching the upstream valley of the Anchor Rail.
- The wire rope on the anchor rail is fed through the bottom opening of the Impact Head with no snags or entanglements that would prevent proper tensioning.
- The anchor stud is installed correctly on the Anchor Post with a 1"-8 grade 5 heavy hex nut, and SAE flat washer. This nut should be torqued to 120 ft-lb.
- The Anchor Post is installed correctly. The base plate of the anchor post should be flush with the finished grade. A cap should be installed with (2) 7/16"-14 x 2" hex bolts, SAE flat washers, and nuts.
- Any augered posts were properly backfilled and compacted.
- Posts, guardrails, impact heads, anchor rails, and cables are noticeably undamaged from installation.