

Inspector Quantlist Report 20180522

Diary Number: _____

Inspector Name: _____

TRACS Number: _____

Date: _____

Division IX: Incidentals

Title: W-Beam Guardrail

Sub-Title: (Non-MASH)

Route:
Plan Reference Number:
Offset:
Station:
Begin:
End:

No	Compliance	Narrative	Reference
0		All stakeholders have participated in the pre-activity meeting (can be combined with other pre-activity).	Construction Bulletin 02-01
1		Certificates of Compliance conforming to the requirements of Subsection [106.05] shall be submitted.	Standard Specifications 1012-1
2		For other than High Strength Anchor Bolts, Certificate of Compliance required and three samples per lot, or 0.1% of lots in excess of 3000, for each bolt diameter, including nuts and washers.	Construction and Materials, Materials Quality Assurance. Appendix C
3		The Contractor furnished Certificates of Compliance conforming to the requirements of Subsection 106.05, which state that steel or iron products incorporated in the project meet the "Buy America" Act requirements certifying that all manufacturing processes producing a steel or iron product, including any application of a coating to iron or steel, occurred in the United States.	Standard Specifications 106.05
4		Blue stake is done before placement of the posts (locating utilities, pipes, box culverts and sleeves).	Standard Specifications 107.15
5		Earthwork placement, grading, compacting, and bituminous surfacing shall be completed prior to the installation of guardrail posts.	Standard Specifications 905-3.02
6		All guardrail fasteners require one sample of each item.	Construction Manual 905-1
7		The contractor shall install the posts in a manner that prevents heaving or other damage to the surface material. If the Engineer determines that heaving or other damage has occurred, the contractor shall remove and replace surface material at no additional cost to the Department.	Standard Specifications 905-3.10
8		Alignments are reviewed conform to plans Detail "A", "B", or Special Detail).	Plans
9		The space around and under the posts placed in manually or mechanically dug holes shall be backfilled with moist soils placed in compacted lifts as approved by the Engineer.	Standard Specifications 905-3.02
10		The bituminous shoulder widening is paved to the back of the wood posts and matches the cross slope of the existing roadway.	Standard Drawing C-10.01
11		The post spacing is 6'3" (+/- 3/4")	Standard Drawing C-10.03
12		The same type of posts and blocks are used in any one continuous length of guardrail (either steel posts & wood blocks or wood posts and wood blocks).	Standard Specifications 905-3.01
13		The nominal dimensions of wood posts are 6" x 8" x 64" tolerances is in accordance with the current Policy and Procedure Directive for timber posts and blocks. (+/-1/2" in width and +/-1/8" in length.	PPD # 9

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14		The nominal dimensions of wood block outs are 6" x 8" x 14" tolerances is in accordance with the current Policy and Procedure Directive for timber posts and blocks.(+/-1/2" in width and +/-1/8" in length.	PPD # 9
15		Guardrail elements are spliced by lapping in the direction of traffic in the nearest adjacent lane. (Improper lapping of the rail could lead to snagging of the impacting vehicle).	Standard Specifications 905-3.01
16		The guardrail is spliced at 25' intervals at posts unless otherwise shown on the project plans.	Standard Specifications 905-3.02
17		All bolts extend a minimum of two threads beyond the nut. If adjacent to pedestrian traffic the bolts shall be cut 1/4" from the nut.	Standard Specifications 905-3.01
18		The top of the rail is set at 28" minimum - 30" Maximum. (Set rail height close to the Maximum, this allows for settling and asphaltic concrete overlays).	Construction Bulletin 10-02
19		The wood or steel blocks are set so that the top of the block is no more than 1/2" above or below the top of the post.	Standard Specifications 905-3.02
20		The wood blocks are toe-nailed to the post with one 16 penny nail on each side of the top of the block.	Standard Specifications 905-3.02
21		Guardrail reflector tabs shall be installed on the W-beam at every sixth post, beginning with the post number shown in Table 905-1. On radial sections of guardrail, the reflector tabs shall be placed on the W-beam at every other post.	Standard Specifications 905-3.11
22		The slotted part of the reflectorized tab is installed under the mounting bolt head and the reflectorized surface is facing oncoming traffic.	Standard Specifications 905-3.11
23		The color of the reflective portion of the barrier markers conform to the color of the adjacent edge line.	Standard Specifications 905-3.11
24		For elevations of 4,000' and higher, the flexible guardrail markers are installed on every 18th post, beginning with the post number as specified in table 905- 1.	Standard Specifications 905-3.11
25		For elevations of 4,000' and higher, the mounting height of the flexible guardrail markers from the top of the reflective sheeting is approximately 38"± 2 inches above the surface of the adjacent roadway.	Standard Specifications 905-3.11
26		Flexible L-shaped, U-shaped, and T-shaped delineators shall be installed on the top of the posts, and shall be placed as close as possible to the roadway edge of the post with the retro reflective surface facing oncoming traffic of the nearest traveled lane.	Standard Specifications 905-3.11
27		Two 1/8"x 2" lag bolts are used to secure the flexible guardrail markers to the posts.	Standard Specifications 905-3.11
28		The contractor shall remove and replace damaged delineation at no additional cost to the Department.	Standard Specifications 905-3.11
29		Two new 72" posts are placed on each side where nested W-Beam guardrail is installed.	Standard Drawing C10.06
30		Type I, 25' of Nested Steel W-Beam is used when splice connection falls on object.	Standard Drawing C10.06
31		Type II, 37.5' of Nested Steel W-Beam is used when non splice connection falls on object.	Standard Drawing C10.06
32		Type III, 37.5' of Nested Steel W-Beam is used when spanning down drains or multiple obstructions.	Standard Drawing C10.06
33		Button head bolts 5/8" x 1-1/4" are installed at locations where posts are eliminated.	Standard Drawing C10.06
34		Quantlist Minimum Frequency is being followed, One per installation.	Construction Bulletin 07-01