

Inspector Quantlist Report 20210917

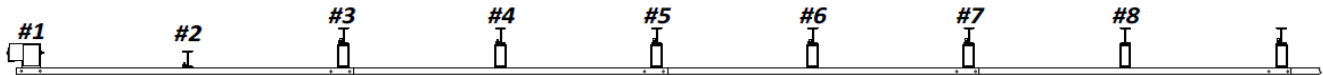
Diary Number: _____ Inspector Name: _____

TRACS Number: _____ Date: _____

Division IX: Incidentals
 Title: SGET MASH TL-3 Single Guardrail Terminal

Admin Instructions: Use this Quantlist with Manufacturers Inspection Checklist supplied by the Manufacturer/Contractor/Sub Contractor or Download the Inspection Checklist from <https://spigindustry.com/>

Route:
Plan Reference Number:
Offset from edge line:
Begin Station:
End Station:



Attribute Numbers	Compliance	Narratives	References
0.		All stakeholders participated in the pre-activity meeting.	Construction Bulletin 02-01
1.		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.	23 CFR Part 635 Special Provisions 106.15 Standard Specifications 2021 106.05 Standard Specifications 2021 1012-1 Standard Specifications 2021 905-2
2.		AZ811 or Blue stake is done before placement of the post (locating utility, pipes, box culverts and sleeves).	Standard Specifications 2021 107.15
3.		When a traffic control plan is included in the project plans, this plan shall govern unless an alternate plan, acceptable to the Engineer, is submitted by the contractor.	Standard Specifications 2021 701-1

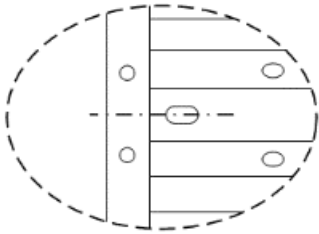

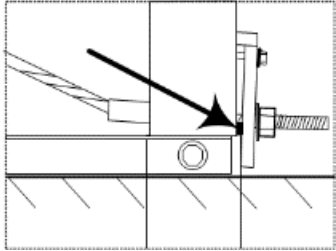
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4.		The Roadway Pavement Structural Section approach and widening is built to plans dimensions.	Guardrail End Terminal Pad Layout Drawing C-10.23 2 of 2
5.		The Roadway Pavement Structural Section approach and widening matches the cross slope of the existing roadway.	Guardrail End Terminal Pad Layout Drawing C-10.23 2 of 2
6.		Earthwork placement, grading, and compacting shall be completed prior to installation of posts for guardrail terminals.	Standard Specifications 2021 905-3.10
7.		Only one type of post and blockout shall be used for any one continuous length of guardrail.	Standard Specifications 2021 1012-3.02
8.		Timber shall be No. 1 or better, and the stress grade shall be 1,200 pounds per square inch or higher.	Standard Specifications 2021 1012-3.02
9.		The dimensions of timber posts and blockout shall not vary more than $\pm 1/4$ inch from the nominal dimensions as hereinbefore specified.	Standard Specifications 2021 1012-3.02
10.		Drilling or fabrication should be done where possible before the preservation treatment process. In event of a mechanical injury or field cutting of the timbers, field treatment shall be in accordance with AWPA Standard M4.	Standard Specifications 2021 1012-3.02
11.		High Strength Bolts, Nuts, Washers, or Anchor Bolts. Certificate of Analysis 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 1012
12.		For other than High Strength Anchor Bolts, Certificate of Analysis 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 1012
13.		Where galvanizing has been damaged, the coating shall be repaired by applying two coats of zinc-rich primer conforming to the requirements of Section 1002 of the specifications.	Standard Specifications 2021 1012-3.01
14.		Unless otherwise specified, all surfaces of guardrail elements which are exposed to traffic shall present a uniform, pleasing appearance and shall be free of scars, stains or corrosion.	Standard Specifications 2021 1012-2
15.		Rail elements shall be galvanized after fabrication. (Fabrication includes forming, cutting, shearing, punching, drilling, bending, welding, and riveting).	Standard Specifications 2021 1012-2
16.		The first 50'-0" of guardrail in the SGET system is in a straight line.	SGET Maintenance/Inspection Checklist

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17.		The first 50'-0" of guardrail in the SGET system is at height 31" ± 1" above finished grade.	SGET Maintenance/Inspection Checklist
18.		The first 12'-6" specialty panel is not attached to the wood breakaway post (#1).	SGET Maintenance/Inspection Checklist
19.		The first 12'-6" specialty panel is fastened directly to the second post (#2) only with a 1-1/2" guardrail bolt and guardrail nut. No washers and no guardrail blackout are used.	SGET Maintenance/Inspection Checklist
20.		The series of square and round holes in the first 12'-6" specialty panel are between the wood breakaway post (#1) and the second post (#2).	SGET Maintenance/Inspection Checklist
21.		The reinforcement plate is properly attached to the rear side of the 12'-6" specialty panel with washers on both the face of the 12'-6" specialty panel and the rear side of the reinforcement plate.	SGET Maintenance/Inspection Checklist
22.		The soil tube for the wood breakaway post (#1) is not more than 4" above finished grade.	SGET Maintenance/Inspection Checklist
23.		Conversion to the MGS system in which guardrail splices between posts occurs the first time after the eighth post (#8) with a 9'-4 1/2" guardrail panel being the last downstream panel.	SGET Maintenance/Inspection Checklist
24.		Spacing between each of the posts (#1 through #8) is 6'-3" on centers.	SGET Maintenance/Inspection Checklist
25.		Each of the second through eight posts (#2 through #8) are W6X8.5# guardrail posts weakened with 4 holes in the flanges of the posts and the 4 holes in the flanges of each post are at about finished grade.	SGET Maintenance/Inspection Checklist
26.		Strike plate and strike block are properly positioned on the wood breakaway post (#1) in that the wood lip of the strike block is on the field side of the wood breakaway post (#1) and the metal lip of the strike plate is on the road side of the strike block.	SGET Maintenance/Inspection Checklist

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<p>27.</p>		<p>SGET guardrail head is vertically centered on first 12'-6" specialty panel in that the first slotted rail mounting hole of the first 12'- 6" specialty panel is centered between the viewing holes of the SGET guardrail head.</p> 	<p>SGET Maintenance/Inspection Checklist</p>
<p>28.</p>		<p>SGET guardrail head is attached to the wood breakaway post (#1) with only two 3/8" X 3" Grade 5 (GR5) lag screws, each GR5 lag screw having a washer. A single washered GR 5 lag screw is in each of the mounting tabs of the SGET guardrail head. Each lag screw has three tick marks on the head indicating Grade 5 (GR5) and each lag screw is positioned in the middle of the wood breakaway post (#1).</p>	<p>SGET Maintenance/Inspection Checklist</p>
<p>29.</p>		<p>No more than 1-1/4" of the threaded end of the cable should extend beyond the nut at the end of the guardrail grabber.</p> 	<p>SGET Maintenance/Inspection Checklist</p>
<p>30.</p>		<p>Cable is so tight as to not deflect more than 1" when kicked or stood upon. Tighter is better due tendency of new systems to "set-in" or loosen after installation.</p>	<p>SGET Maintenance/Inspection Checklist</p>
<p>31.</p>		<p>Curved lip of bearing plate is on top of soil tube and within 2-1/2" hole of wood breakaway post (#1). Bearing plate is lag bolted to the wood breakaway post (#1).</p> 	<p>SGET Maintenance/Inspection Checklist</p>
<p>32.</p>		<p>The minimum reflective area for L-shaped and T-shaped markers, attached to the top of wooden posts, and U shaped markers, attached to the top of steel I-beam posts, shall be ten square inches.</p>	<p>Standard Specifications 2021 905-2</p>
<p>33.</p>		<p>The reflectorized surface for flexible vertical guardrail markers attached to the approach side of posts shall be three inches wide by five inches long.</p>	<p>Standard Specifications 2021 905-2</p>

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34.		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 retroreflective surface facing oncoming traffic of the nearest traveled lane.	Standard Specifications 2021 905-3.11 (A)
35.		Flexible vertical delineators shall be installed on the side of the post facing oncoming traffic, level and true, with the retroreflective sheeting 38 inches above the roadway surface.	Standard Specifications 2021 905-3.11 (A)
36.		Side-mounted flexible vertical delineators shall be secured to wood posts with two 1/8-inch diameter by 2-inch long galvanized lag screws and flat washers.	Standard Specifications 2021 905-3.11 (A)
37.		Side mounted delineation shall be secured to metal posts by drilling two holes through the post and attaching with two galvanized 1/8-inch diameter by 3/4-inch long bolts, flat washers, and lock nuts. Self-tapping 1/8" screws may be used as permitted by the Engineer.	Standard Specifications 2021 905-3.11 (A)
38.		The color of the reflective portion of the barrier markers conform to the color of the adjacent edge line.	Standard Specifications 2021 905-3.11 (A)
39.		Quantlist Minimum Frequency is being followed, one per installation.	Construction Bulletin 07-01