

ON-SITE GUARDRAIL GARDEN TRAINING

FLEAT-MT End Treatment Component Checklist

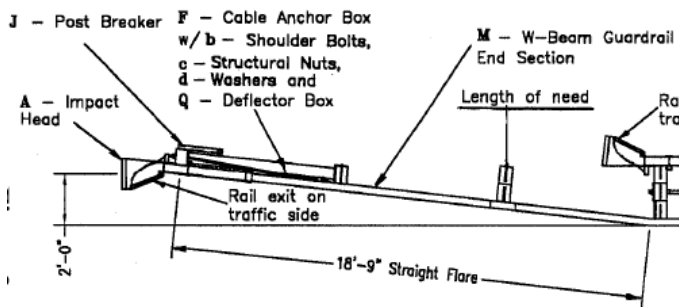
Date Created: 4/1/2024

Technical drawing of a guardrail end treatment component. The drawing shows a side view of the assembly with various parts labeled: J - Post Breaker, F - Cable Anchor Box w/ b - Shoulder Bolts, c - Structural Nuts, d - Washers and Q - Deflector Box, M - W-Beam Guardrail End Section, Length of need, Rail exit on traffic side, W-Beam Guardrail End Section, W-Beam Short Guardrail End Section, End payment for installation, M - Off Timber Posts (Post 3, 5, 6 & 7), and P - W-Beam Guardrail (End Bent). Dimensions include 2'-0" and 18'-9" Straight Flare. The drawing is labeled 'PLAN' and 'TMFIC'.

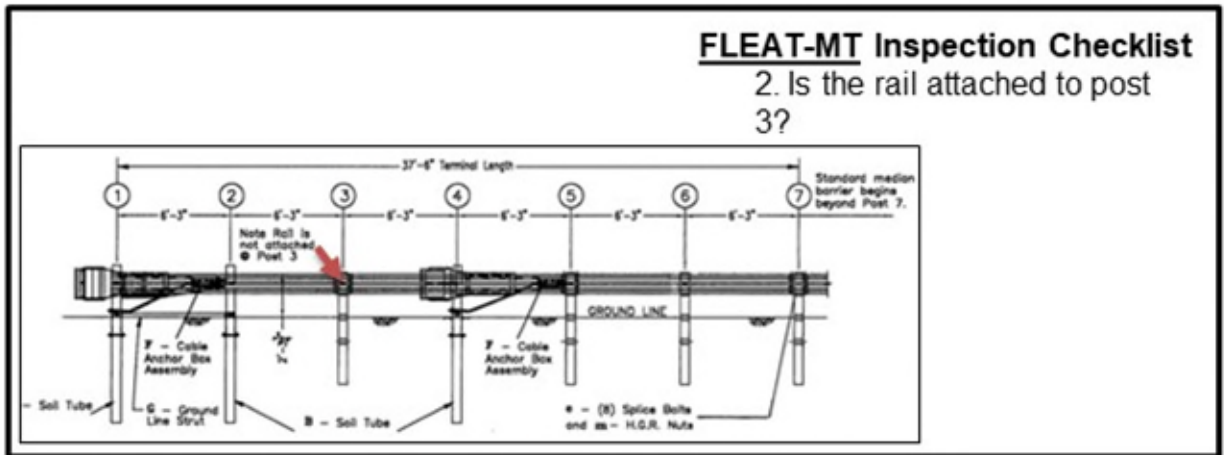
FLEAT-MT Inspection Checklist

1. Is the rail at post 1 placed at a straight, single-sided flare offset of 2'-0" beginning at post 4?

Answer: Yes / No (circle answer)
Correct Checklist Answer: Yes
Manufacturer Checklist Item: #2
The rail at post #1 is placed at a straight single-sided flare offset 2'-0" beginning at post #4.



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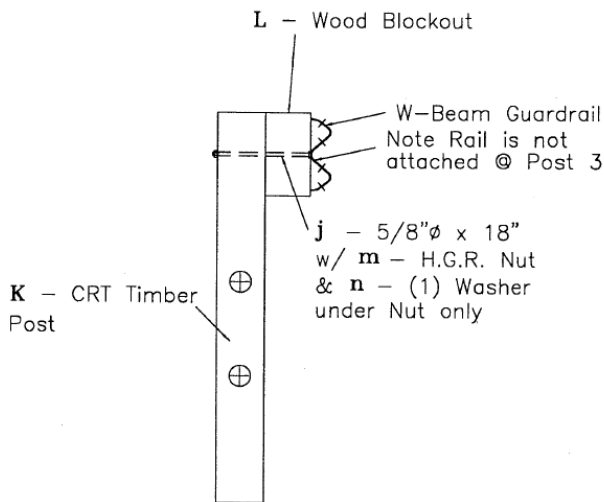


Answer: Yes / No (circle answer)

Correct Checklist Answer: No

Manufacturer Checklist Item: #3

The rail is not attached to the post at post location #3 or post location #1.



ON-SITE GUARDRAIL GARDEN TRAINING

FLEAT-MT Inspection Checklist



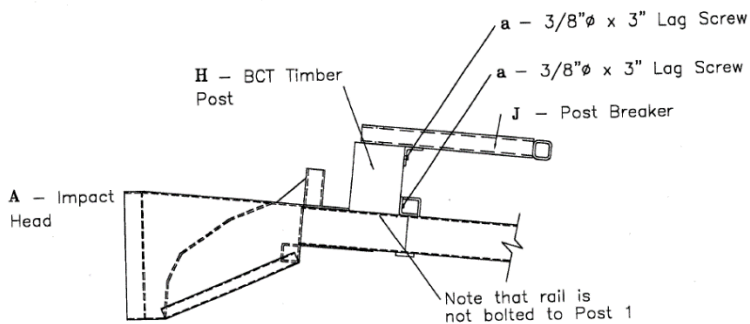
3. Is the rail attached to post 1?

Answer: Yes / No (circle answer)


Correct Checklist Answer: No

Manufacturer Checklist Item: #3

The rail is not attached to the post at post location #3 or post location #1.




ON-SITE GUARDRAIL GARDEN TRAINING

	FLEAT-MT Inspection Checklist
	4. Is the rail attached to the post at the impact head side at post 4?

Answer: Yes / No (circle answer)
Correct Checklist Answer: No
Manufacturer Checklist Item: #4
The rail is not attached to the post at the impact head side only at post location #4.



ON-SITE GUARDRAIL GARDEN TRAINING

	FLEAT-MT Inspection Checklist
	5. Do the 3 foundation tubes protrude more than 4" above the ground line? (Measured by the AASHTO 5' cord method)

Answer: Yes / No (circle answer)

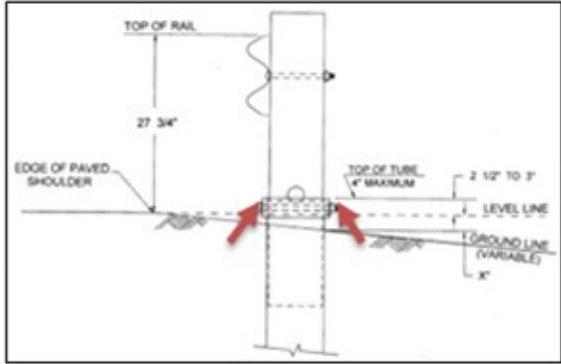
Correct Checklist Answer: No

Manufacturer Checklist Item: #5

The (3) foundation tubes do not protrude more than 4" above the ground line (measured by the AASHTO 5' cord method). Site grading may be necessary to meet this requirement.



ON-SITE GUARDRAIL GARDEN TRAINING

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	6. Are the bolts at the top of the 3 foundation tubes over-tightened, deforming the walls of the tubes?

Answer: Yes / No (circle answer)

Correct Checklist Answer: No

Manufacturer Checklist Item: #6

The bolts at the top of the (3) foundation tubes are not over-tightened, deforming the walls of the tubes.



ON-SITE GUARDRAIL GARDEN TRAINING

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	7. Is the guide chute of the 2 impact heads parallel to the top of the rail?

Answer: Yes / No (circle answer)

Correct Checklist Answer: Yes

Manufacturer Checklist Item: #7

The guide chute of the (2) impact heads are parallel to the top of the rail and the exit slot of the impact heads are facing traffic.



ON-SITE GUARDRAIL GARDEN TRAINING

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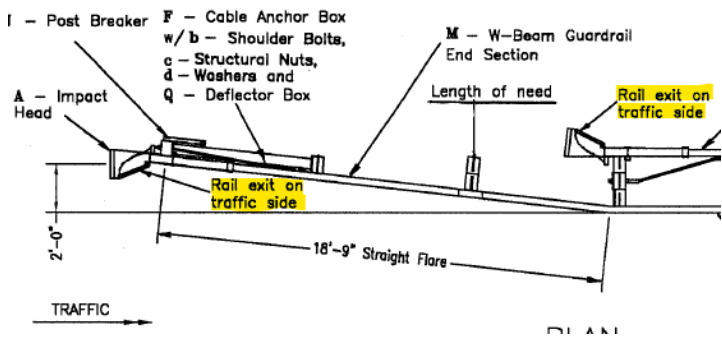
8. Are the exit slots of the impact heads facing traffic?

Answer: Yes / No (circle answer)

Correct Checklist Answer: Yes

Manufacturer Checklist Item: #7

The guide chute of the (2) impact heads are parallel to the top of the rail and the exit slot of the impact heads are facing traffic.



ON-SITE GUARDRAIL GARDEN TRAINING

FLEAT-MT Inspection Checklist



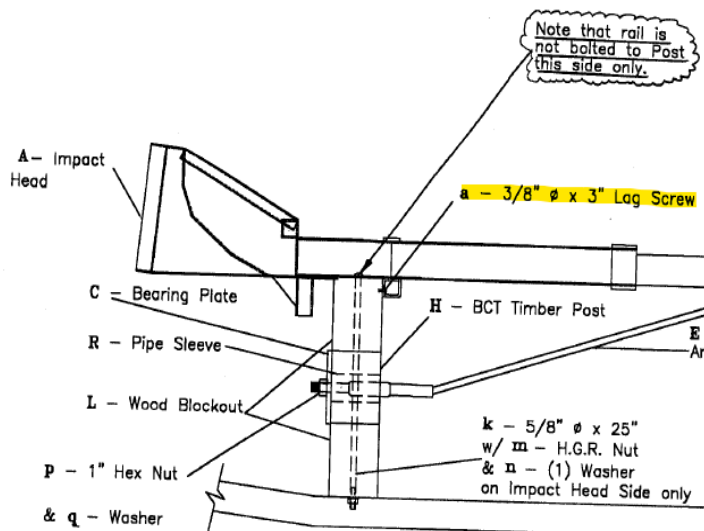
9. Are the two lag screws holding the impact heads to post #1 and post #4 snug?

Answer: Yes / No (circle answer)

Correct Checklist Answer: Yes

Manufacturer Checklist Item: #8

The two lag screws holding the impact heads to post #1 and to post #4 are snug.



ON-SITE GUARDRAIL GARDEN TRAINING

FLEAT-MT Inspection Checklist



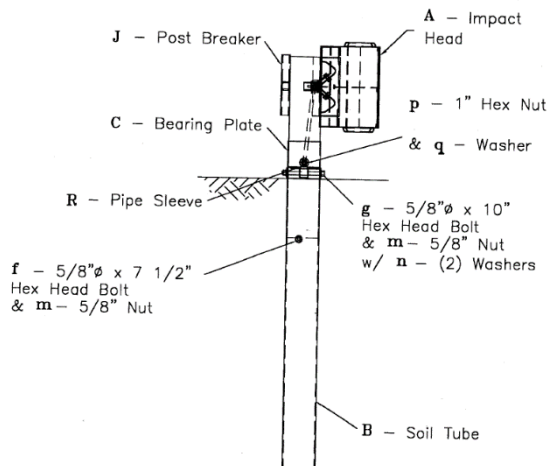
10. Are the 8"x8" bearing plates at post 1 and 4 correctly positioned with the 5" dimension up and the 3" dimension down?

Answer: Yes / No (circle answer)

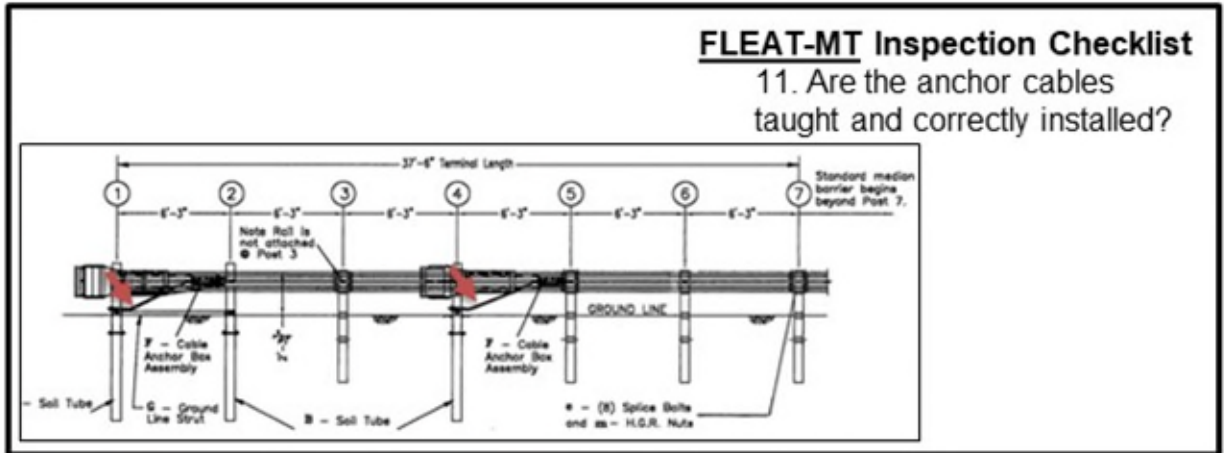
Correct Checklist Answer: Yes

Manufacturer Checklist Item: #9

The 8" x 8" bearing plate at post #1 and #4 are correctly positioned with the 5" dimension up & the 3" dimension down.



ON-SITE GUARDRAIL GARDEN TRAINING



Answer: Yes / No (circle answer)

Correct Checklist Answer: Yes

Manufacturer Checklist Item: #9

The anchor cables are taut and correctly installed.



ON-SITE GUARDRAIL GARDEN TRAINING

FLEAT-MT Inspection Checklist



12. Has a nail has been placed over the bearing plates to prevent rotation?

Answer: Yes / No (circle answer)

Correct Checklist Answer: Yes

Manufacturer Checklist Item: #9

A nail has been placed over the bearing plates to prevent rotation.



ON-SITE GUARDRAIL GARDEN TRAINING

FLEAT-MT Inspection Checklist



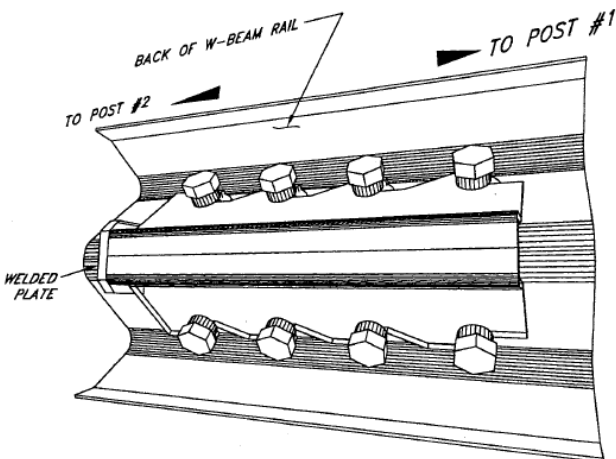
13. Are the cable anchor bracket shoulder bolts properly attached to the 2 W-beam guardrail end sections?

Answer: Yes / No (circle answer)

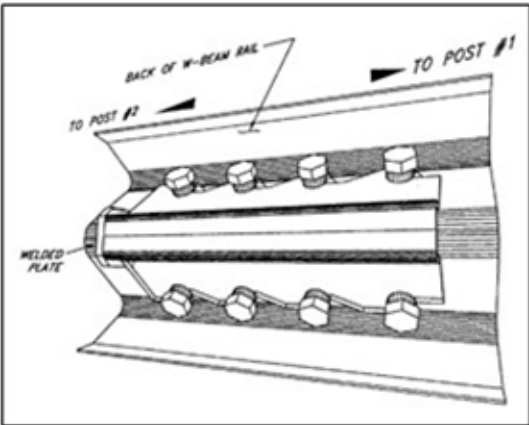
Correct Checklist Answer: Yes

Manufacturer Checklist Item: #10

The cable anchor bracket shoulder bolts are properly attached to the (2) W-beam guardrail end sections.



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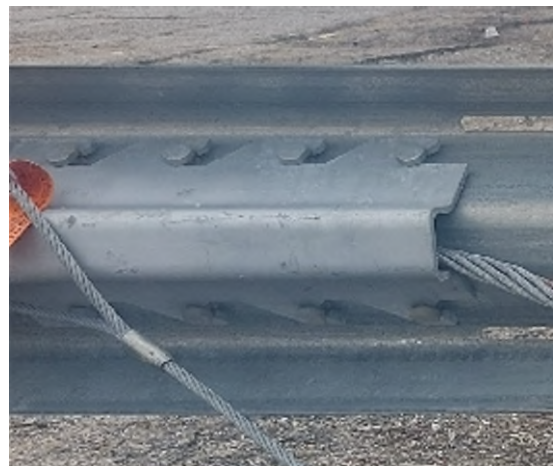
	FLEAT-MT Inspection Checklist
	14. Are the cable anchor brackets fully seated on the shoulder portion of the bolts?

Answer: Yes / No (circle answer)

Correct Checklist Answer: Yes

Manufacturer Checklist Item: #10

The cable anchor brackets are fully seated on the shoulder portion of the bolts.



ON-SITE GUARDRAIL GARDEN TRAINING



FLEAT-MT Inspection Checklist

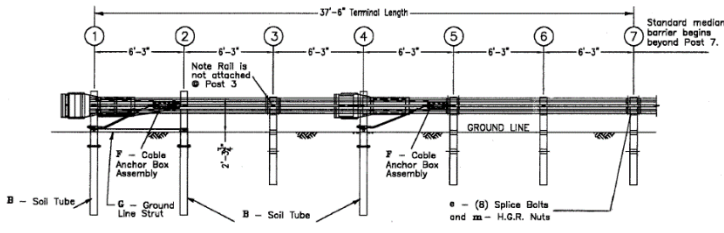
15. Are posts 1, 2 and 4 are installed in foundation tubes?

Answer: Yes / No (circle answer)

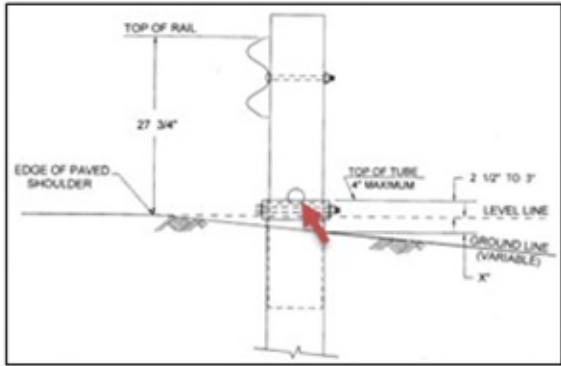
Correct Checklist Answer: Yes

Manufacturer Checklist Item: #12

Posts #1, #2, and #4 are installed in foundation tubes and have the 2-1/2" breakaway hole located parallel to the roadway with the bottom of the hole at the top of the tube.



ON-SITE GUARDRAIL GARDEN TRAINING

	FLEAT-MT Inspection Checklist
	16. Do posts 1, 2, and 4 have the 2-1/2" breakaway hole located parallel to the roadway with the bottom of the hole at the top of the tube?

Answer: Yes / No (circle answer)

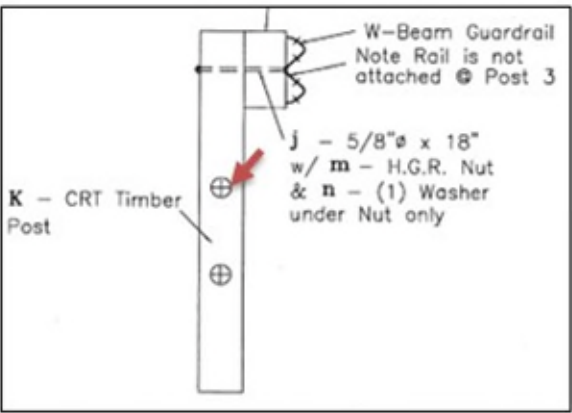
Correct Checklist Answer: Yes

Manufacturer Checklist Item: #12

Posts #1, #2, and #4 are installed in foundation tubes and have the 2-1/2" breakaway hole located parallel to the roadway with the bottom of the hole at the top of the tube.



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	17. Do the CRT posts at locations 3, 5, 6, and 7 have two 3-1/2" breakaway holes located parallel to the roadway with the center of the top hole located at the ground line?

Answer: Yes / No (circle answer)

Correct Checklist Answer: Yes

Manufacturer Checklist Item: #13

CRT posts at locations 3, 5, 6 and 7 have two 3-1/2" breakaway holes (checked prior to installation) located parallel to the roadway with the center of the top hole located at the ground line.



ON-SITE GUARDRAIL GARDEN TRAINING

FLEAT-MT Inspection Checklist



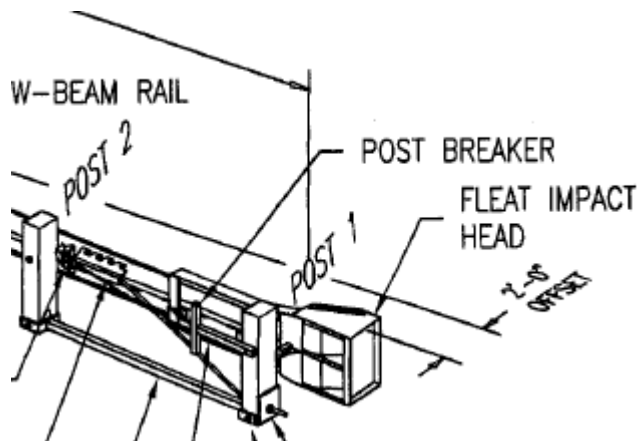
18. Is the post breaker attached at the non-traffic side of post #1 with two lag screws?

Answer: Yes / No (circle answer)

Correct Checklist Answer: Yes

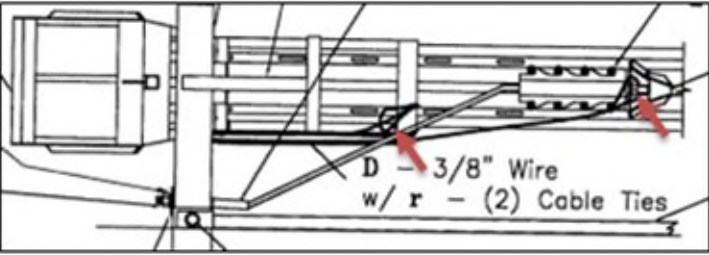
Manufacturer Checklist Item: #15

The post breaker is attached at the non-traffic side of post #1 with two lag screws.



ON-SITE GUARDRAIL GARDEN TRAINING

FLEAT-MT Inspection Checklist



19. Is the 3/8" tether cable correctly looped around the impact head post #1, looped around the anchor cable near post #2, and tied under the impact head at post #1?

Answer: Yes / No (circle answer)

Correct Checklist Answer: Yes

Manufacturer Checklist Item: #16

The 3/8" tether cable is correctly looped around the impact head at post #1, looped around the anchor cable near post #2, and tied under the impact head at post #1.



ON-SITE GUARDRAIL GARDEN TRAINING

FLEAT-MT Inspection Checklist



20. Are washers used on the face of the rail apart from the cable anchor bracket bolts?

Answer: Yes / No (circle answer)

Correct Checklist Answer: No

Manufacturer Checklist Item: #17

No washers are used on the face of the rail except at the cable anchor bracket bolts.

Are the bolts the correct length? 25"

