

Inspector Quantlist Report 20180521

Diary Number: _____

Inspector Name: _____

TRACS Number: _____

Date: _____

Division IX: Incidentals

Title: SRT-350 End Treatment HBA Posts (AC) SS355

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

Attribute Numbers	Yes/No N/A	Narratives	References
0.		All stakeholders participated in the pre-activity meeting.	Construction Bulletin 02-01
1.		Certificates of Compliance conforming to the requirements of Subsection [106.05] shall be submitted.	Standard Specifications 1012-1
2.		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.	Special Provisions 106.15
3.		Blue stake is done before placement of the post (locating utility, pipes, box culverts and sleeves).	Standard Specifications 107.15
4.		All guardrail fasteners require one sample of each item.	Construction Manual 905-1
5.		Earthwork placement, grading, compacting, and bituminous surfacing shall be completed prior to installation of posts for guardrail terminals.	Standard Specifications 905-3.10
6.		The Bituminous approach and widening is built to plans dimensions.	Layout Details X8041
7.		The Bituminous approach and widening matches the cross slope of the existing roadway.	Layout Details X8041
8.		The post layout is in accordance with the project plan layout details (The face of rail offset is per plans Detail "A", "B", or special detail).	Layout Details X8041
9.		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 cost to the Department.	Standard Specifications 905-3.10
10.		At the time of installation the wood posts and blocks comply with Policy and Procedure Directive for (Splits) (Knots)(Checks)(Wane)(Shake).	PPD. No.9

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11.		The bottom HBA steel posts do not protrude more than 4" above the finished adjacent ground line.	Layout Details X8041
12.		The HBA posts #1 & #2 are aligned with the holes of the post plates upper and lower posts (Detail "H").	Man. Drawing SS355
13.		HBA posts #1 & #2 are bolted with A325 Bolts, washer, lock washer, and Hex nut. (Detail "H")	Man. Drawing SS355
14.		The 3/8" x 2" hex head bolts are installed through the 7/16" holes of the HBA posts with a 3/8" washer and lock washer under the hex nut to support the post upright.	Man. Drawing SS355
15.		Stack 2-3 washers between the strut and post plate so that the strut clears the 3/8" bolt head without interference.	Man. Drawing SS355
16.		The two struts at post #1 & #2 are installed using 3/4" x 3" hex head A325 bolts with 3/4" washers and lock washers placed under the nuts. (Install bolts with the hex head on the strut side)	Man. Drawing SS355
17.		The 4"x 6" cable web plate is bolted to the bottom of the post # 1 with a 3/8" x 1-1/2" hex bolt with a 3/8" washer and hex nut. (Cable web plate is pushing down on the top of the cable anchor).	Man. Drawing SS355
18.		The 6"x 8" bearing plate at post # 1 is positioned with the "V" notch up.	Man. Drawing SS355
19.		The 3"x 4" plate washer at post # 1 is placed between the bearing plate and the 1" Cable hex nut.	Man. Drawing SS355
20.		Posts 3-7 CRT posts are installed with the 3-1/2" breakaway holes parallel to the roadway; finished grade is near the bottom of the 3-1/2" hole.	Man. Drawing SS355
21.		At the time of installation, posts 3-7 are nominal 6"x8"x72"(Minimum dimensions 5-1/2" x 7-1/2" x 71-7/8")	PPD. No.9
22.		Where field cutting or boring of wood posts and blocks is permitted, the affected areas shall be treated in accordance with the American Wood Preservers Association Standard M4.	Standard Specifications 905-3.01
23.		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
24.		At the time of installation block outs for posts 3-7 are nominal 6"x8"x14"(Minimum dimensions 5-1/2" x 7-1/2" x 13 -7/8")	PPD. No.9
25.		The wood blocks are toe-nailed to the post with one 16 penny nail 3" down from the top on each side.	Man. Drawing SS355
26.		All rail elements are lapped in the direction of traffic nearest the adjacent lane.	Man. Drawing SS355
27.		The rail is not bolted at post 2 (it is supported by a 12" backup rail section bolted to the post). Posts # 3, 4, and 5 are also not bolted.	Man. Drawing SS355
28.		Guardrail bolts adjacent to pedestrian traffic are cut flush to the nut.	Standard Specifications 905-3.01

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29.		All other bolts extend a minimum of two threads beyond the nut.	Standard Specifications 905-3.01
30.		The (4) slot guards are installed on the back side of rail with the Deflector angle (High End) of slot guard positioned immediately downstream of the slots.	Man. Drawing SS355
31.		The slot guards are attached to the guardrail with (8) 5/8" x 1-1/2" splice bolts; (bolt and washer go through the face of rail with the nut securing the slot guard to back of rail).	Man. Drawing SS355
32.		The cable anchor bracket is bolted to the back of rail before post #2 using (8) 5/8" x 1-1/2" splice bolts.	Man. Drawing SS355
33.		One washer is installed under each hex nut on the Anchor cable.	Man. Drawing SS355
34.		The anchor cable is taut after the installation has been completed (+/- 1" of movement) Tighten the Hex Nuts on the cable ends, until the cable is taut. The cable is considered taut when it does not deflect more than 1" when pressure is applied by hand in an up or down direction.	Installation Manual
35.		The roll terminal is installed using four 5/8" x 1-1/4" splice bolts and hex nuts.	Man. Drawing SS355
36.		The roll terminal installation was completed the same day it was started.	Installation Manual
37.		The SRT End offset is set at 4' as measured from the face of rail at post 1.	Man. Drawing SS355
38.		The top of guardrail is set at 27" Min. - 29" Max. From the finished roadway surface. (Set rail height close to the Maximum, This allows for settling and asphaltic concrete overlays).	Installation Manual
39.		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
40.		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
41.		For tangent and flared guardrail terminals used on a project with an average elevation of less than 4,000 feet, the contractor shall use either prismatic barrier markers, L-shaped, T-shaped markers, or flexible vertical delineators on the posts shown in table 905-1. Prismatic barrier markers shall not be used.	Standard Specifications 905-3.11
42.		Quantlist Minimum Frequency is being followed, One per installation.	Construction Bulletin 07-01