

# Inspector Quanlist Report 20250519

Diary Number: \_\_\_\_\_

Inspector Name: \_\_\_\_\_

TRACS Number: \_\_\_\_\_

Date: \_\_\_\_\_

## Division VI: Structures

### Title: Overhead Sign Structures

Route:	Station:
Offset:	Sign Structure Type:
Plan Reference Number:	Plan Sheet Number:

Attribute Numbers	Yes, No N/A	Narratives	References
0.		Have all stakeholders participated in the pre-activity meeting?	See Project Special Provisions for pre-activity meeting requirements
1.		Has the contractor furnished shop drawings for approval by the Engineer prior to fabrication of the sign structure material in accordance with Subsection 105.03?	2021 Standard Specifications 606-3.01 pg. 643 105.03 pg. 67
2.		Were approved certificates of analysis with all required information submitted for all structural steel, along with mill test reports including "Charpy V-notch" impact test values?	2021 Standard Specifications 606-2.01 pg. 642
3.		Do bolts and high strength Bolts, Nuts, Washers, or Anchor Bolts. conform to the applicable ASTM provided in section 606-2.05 of the Standard Specifications?	2021 Standard Specifications 606-2.05 pg. 642 ASTM's F3125 GR A325, A307, F1554 Grade 55, B766, B633
4.		Has a Certificate of Compliance that states the steel or iron products incorporated into the project meet the Buy America Act?	Special Provisions 106.15
5.		Are there any structures placed in the clear zone not protected by a crash worthy barrier?	Roadside Design Guide Chapter 4, 4.3.1 pg. 4-4
6.		The survey reference points have been placed in accordance with the project plans or approved survey outline?	2021 Standard Specifications 925-3.01 pg. 1103
7.		Arizona 811 was contacted 2 working days prior but not more than 15 working days prior for locating utility lines, pipes, box culvert sleeves etc?	2021 Standard Specifications 107.15 pg. 115
8.		Were the overhead sign structures placed according to the project plans?	2021 Standard Specifications 606-1 pg. 642
9.		Are the foundation dimensions in accordance with the specified requirements?	Plans Sign Detail
10.		Does all reinforcing steel conform to ASTM A615, Grade 60?	Signing and Marking Standard Drawings S-11 Sheet 1, Notes

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11.		The drilled shaft was adjusted for ground slope?.	Signing and Marking Standard Drawings S-11 Sheet 1  Structure Detail Drawings SD 9.20 Sheet 2
12.		The top portion of the drilled shaft foundation is formed a minimum of 6" to a maximum 12" above the finished grade?	Signing and Marking Standard Drawings S-11 Sheet 1
13.		All bolts, nuts, and washers, except high-strength bolts and anchor bolts, are cadmium plated in accordance with the requirements of ASTM B766 or zinc plated in accordance with the requirements of ASTM B633?	2021 Standard Specifications 606-2.05 pg. 642
14.		Is the concrete for all sign structure foundations Class S (3,500 psi) conforming to the requirements of Section 1006?	2021 Standard Specifications 606-2.06 pg. 643
15.		Concrete was placed, finished and cured in accordance with the requirements of Section 601 of the specifications?	2021 Standard Specifications 606-3.05 pg. 644 601-3.05 pg. 585
16.		Was the concrete placed, finished and cured in accordance with the requirements of Section 601 of the specifications?	2021 Standard Specifications 606-3.05 pg. 644
17.		Were all steel surfaces and faces of sign structures galvanized after fabrication? Galvanizing will conform to the requirements of ASTM A 123 and A 153 (Inspect coating for flaking or cracking and document the finding)	2021 Standard Specifications 606-3.04 pg. 644
18.		Before final frame assembly, has the contractor demonstrated that the span length of the frame in the no load condition is equal to (+/- 1/2") of the measured span length between foundations? (by pre-assembly or survey and calculations)	Structure Detail Drawings SD 9.20-1 (Note 9) SD 9.50-1 (Note) SD 9.52-1 (Note) SD 9.53-1 (Note)
19.		When bolting the frame splice together, are the 3/4" grade A325 bolts torqued to 28k?	Structure Detail Drawings SD 9.10-3 Sec. B-B SD 9.20-3 Sec. B-B SD 9.50-3 Sec. B-B
20.		Is the pipe assembly adequately supported to avoid distortions? (tubular cantilever structures are erected as one unit)	Structure Detail Drawings SD 9.20-1 (Note 10) SD 9.50-1 (Overhead Sign Notes) SD 9.52-1 (Overhead Sign Notes) SD 9.53-1 (Overhead Sign Notes)
21.		Are the tubular frame single unit erections adequately supported to avoid distortions or changes in span length between base plates?	Structure Detail Drawings SD 9.20 SD 9.50 SD 9.52 SD 9.53
22.		Is the structure plumbed after it has been erected using 2 hex nuts, 1 leveling nut, and 2 hardened steel washers for each bolt?	Structure Detail Drawings SD 9.01-1 (Note) SD 9.20-1 (Note) SD 9.50-1 (Note) SD 9.52-1 (Note) SD 9.53-1 (Note)

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23.		Is non-shrink grout placed between the base plate elevation and the top of the foundation?	Structure Detail Drawings SD 9.01-2 (Grout Note) SD 9.10-2 (Grout Note) SD 9.20-2 (Grout Note)
24.		Was the Non shrink grout mixed, handled, and placed in accordance with the manufacturer's recommendations?	2021 Standard Specifications 606-2.08 pg. 643
25.		Is the maximum difference between post heights for an individual frame not more than 5 feet?	Structure Detail Drawings SD 9.20-1 (Note 3) SD 9.50-1 (Notes) SD 9.52-1 (Notes) SD 9.53-1 (Notes)
26.		Is the post hand hole faced away from traffic with a height of 2' 10" from the top of the base plate to the top of the hand hole?	Structure Detail Drawings SD 9.10-3 SD 9.20-3
27.		Is the mast arm hand hole facing down and is 1' from the pipe flange to the edge of the hand hole?	Structure Detail Drawings SD 9.10-3 SD 9.20-3
28.		Is the vertical clearance a minimum of 18' 6" from the high point of the pavement to the bottom of the vertical sign supports?	Structure Detail Drawings SD 9.10-1 SD 9.20-1 SD 9.51-1 SD 9.52-1 SD 9.53-1
29.		The sign panel overlap onto the elbow did not exceed a maximum of 7' from the field splice?	Structure Detail Drawings SD 9.10-1 SD 9.20
30.		For cantilever structures did the end of the sign panel not extend more than 1' beyond the mast arm end?	Structure Detail Drawings SD 9.10-1
31.		Is the Quantlist Minimum Frequency being followed, one per unit?	Construction Bulletin 07-01