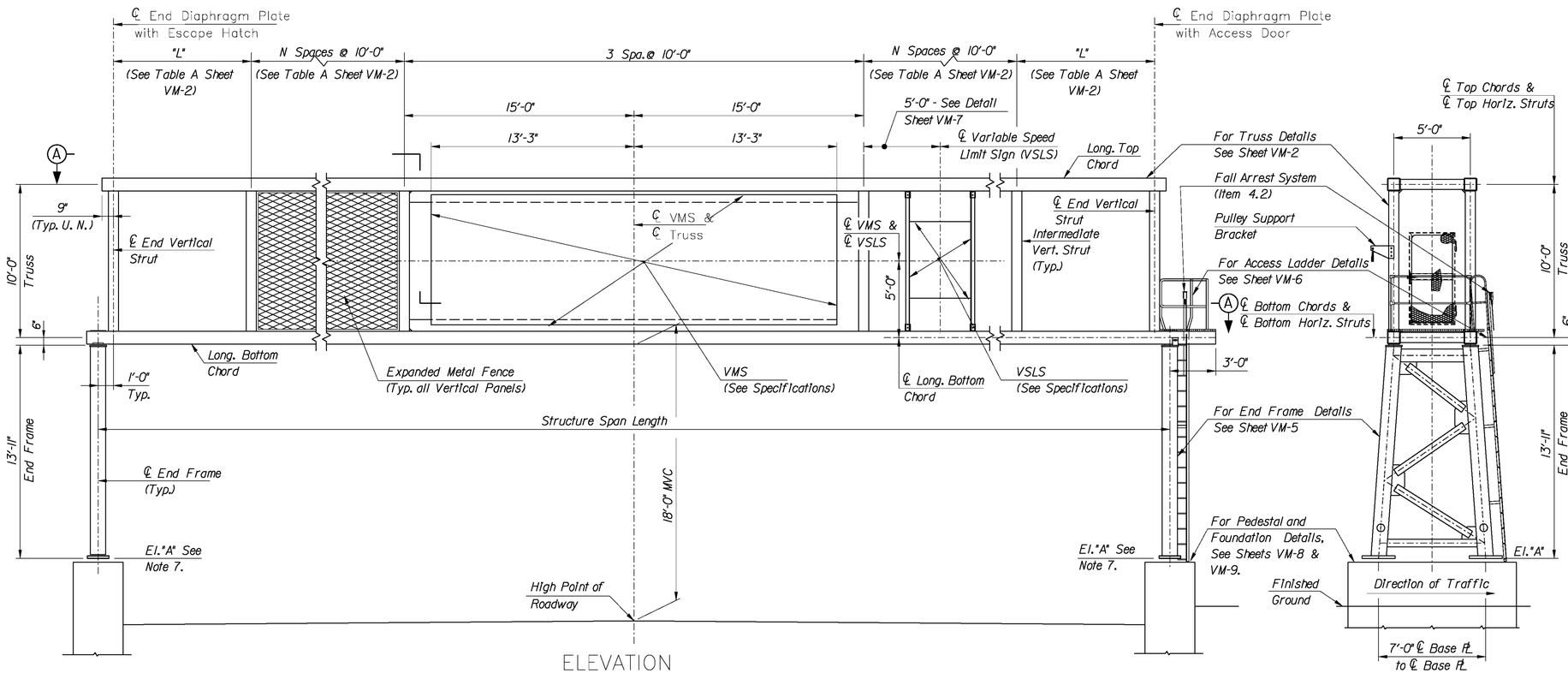
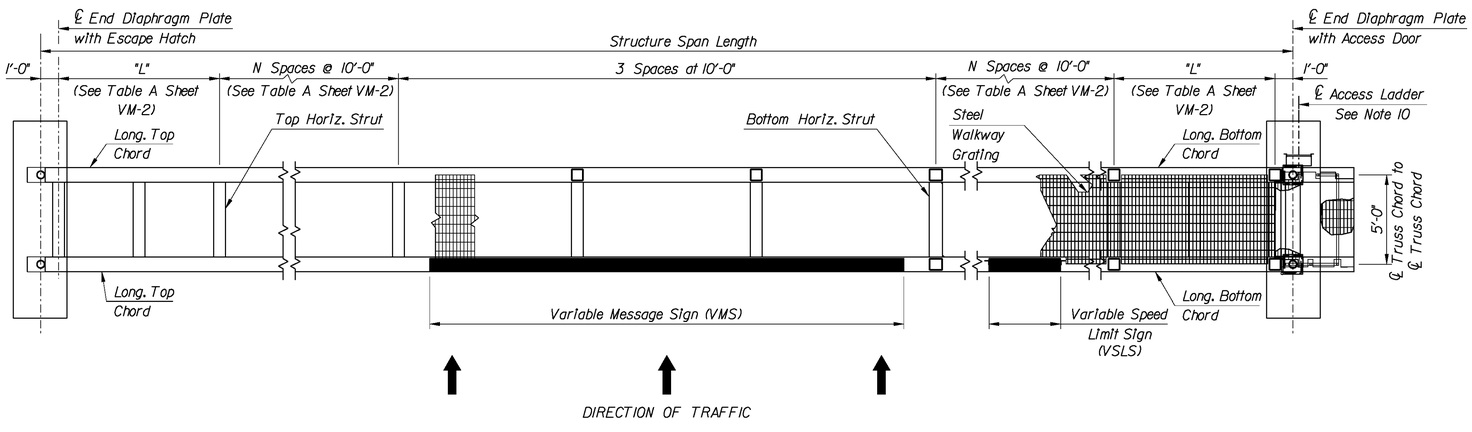


ELEVATION

END FRAME ELEVATION

N.T.S.



PART SECTIONAL VIEW A–A AT TOP CHORD

PART SECTIONAL VIEW A–A AT BOTTOM CHORD

GENERAL NOTES:

1. Specifications:
   A) American Association of State Highway and Traffic Officials (AASHTO), Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2001 4th Edition with all current Interims through 2006, and as modified herein these Standard Drawings.

   B) All construction and materials shall be in accordance with the 2004 New Jersey Turnpike Authority Standard Specifications as modified by the Standard Supplementary Specifications and as modified herein these Standard Drawings.

   C) VMS/VSLS structures shall conform to Section 435 of the New Jersey Turnpike Authority Standard Supplemental Specifications.

2. No field welding shall be permitted, except as noted on Sheet VM-9 for Driven Pile Splices and on Sheet VM-5 for Expanded Metal Fence Tack Welded to End Frame Base Plate.

3. Unless noted otherwise the following material specifications shall apply:

   A) HSS square steel tubing for sign structures shall meet the requirements of ASTM A847. As an alternate, tubing produced by forming and longitudinally seam welding steel plate conforming to ASTM A709, Gr.50W (A588) or ASTM A242 may be used. Only one longitudinal seam will be permitted per tubular member.

   B) Structural steel plates and shapes shall be ASTM A709, Grade 50W (A588) (Fy = 50,000 psi).

   C) Unless Otherwise Noted, all bolted connections specifying bolt diameter ½" and larger shall be:
   Bolts - ASTM A325X Type I (threads excluded from shear plane).
   Nuts - ASTM A563.
   Washers - ASTM F436
   Bolts, Nuts, and Washers shall be galvanized in accordance with ASTM A153.

   D) Unless Otherwise Noted, all bolted connections specifying bolt diameters less than ½" shall be:
   Bolts - Stainless Steel (SS) Type 18-8 or better with Std. Head Capscrews
   Nuts - Distorted Thread 'Top Lock' Locknuts
   Washers - Round Hole, 0.059" Min. Thickness
   Thread Locker - Loctite 2760 on all bolted connections (excluding Anchor Bolts)

   E) Anchor bolts shall be ASTM A449. Nuts shall conform to ASTM A563 and plate washers shall to ASTM A709, Grade 50. Bolts, nuts, and plate washers shall be fully galvanized in accordance with ASTM A153.

   F) Steel walkway grating, expanded metal fence, access ladder, access door and all other appurtenances specified as galvanized either within this planset or in the Specifications, shall be hot-dipped galvanized in accordance with ASTM A-123.

4. All shop drilled holes in structural steel shall be 1/16" larger and all field drilled holes shall be ⅛" larger than the nominal diameter of the fastener, unless otherwise noted or as approved by the Engineer.

5. All contacting surfaces shall have full bearing and shall be thoroughly cleaned by hand to remove any loose or foreign material as approved by the Engineer.

6. Prior to fabrication or installation of any items shown herein these standards, the Contractor shall verify all existing dimensions and conditions using available As-Built plans and site investigation. These work items shall be paid for under Pay Item for either Erection, or the Fabrication & Erection, of the VMS/VSLS Support Structure.

7. Underside of End Frame Base Plate (Elev."A") to be set 4'-0" above the high point of the roadway.

8. For loading and design notes, see Sheet VM-2.

0 ½ 1 2 3 4

ORIGINAL SIZE IN INCHES

APP.	NO.	DATE	REVISION
	1	8/08	ORIGINAL DRAWING

NEW JERSEY TURNPIKE AUTHORITY

NEW JERSEY TURNPIKE

OVERHEAD SPAN VMS/VSLS SUPPORT STRUCTURES

GENERAL PLAN & ELEVATION

OFFICE OF THE CHIEF ENGINEER
NEW JERSEY TURNPIKE AUTHORITY
WOODBRIDGE NEW JERSEY

2008 STANDARD
DRAWING VM-1

CONTRACT NO. SHEET NO. OF

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