

LOADING AND DESIGN NOTES:

- These dedicated Sign Structure Standards are intended for the sole purpose of supporting the Variable Message Sign (VMS) and Variable Speed Limit Sign (VLS). No additional sign area or appurtenances may be used in conjunction with these Standard Drawings without the express written consent of the Authority.
- Wind forces on Variable Message Sign have been determined using a Drag Coefficient (Cd) of 1.2.
- See Design Manual Exhibits 2-405 through 2-411 for required pedestal offset and protection.
- DESIGN CRITERIA:

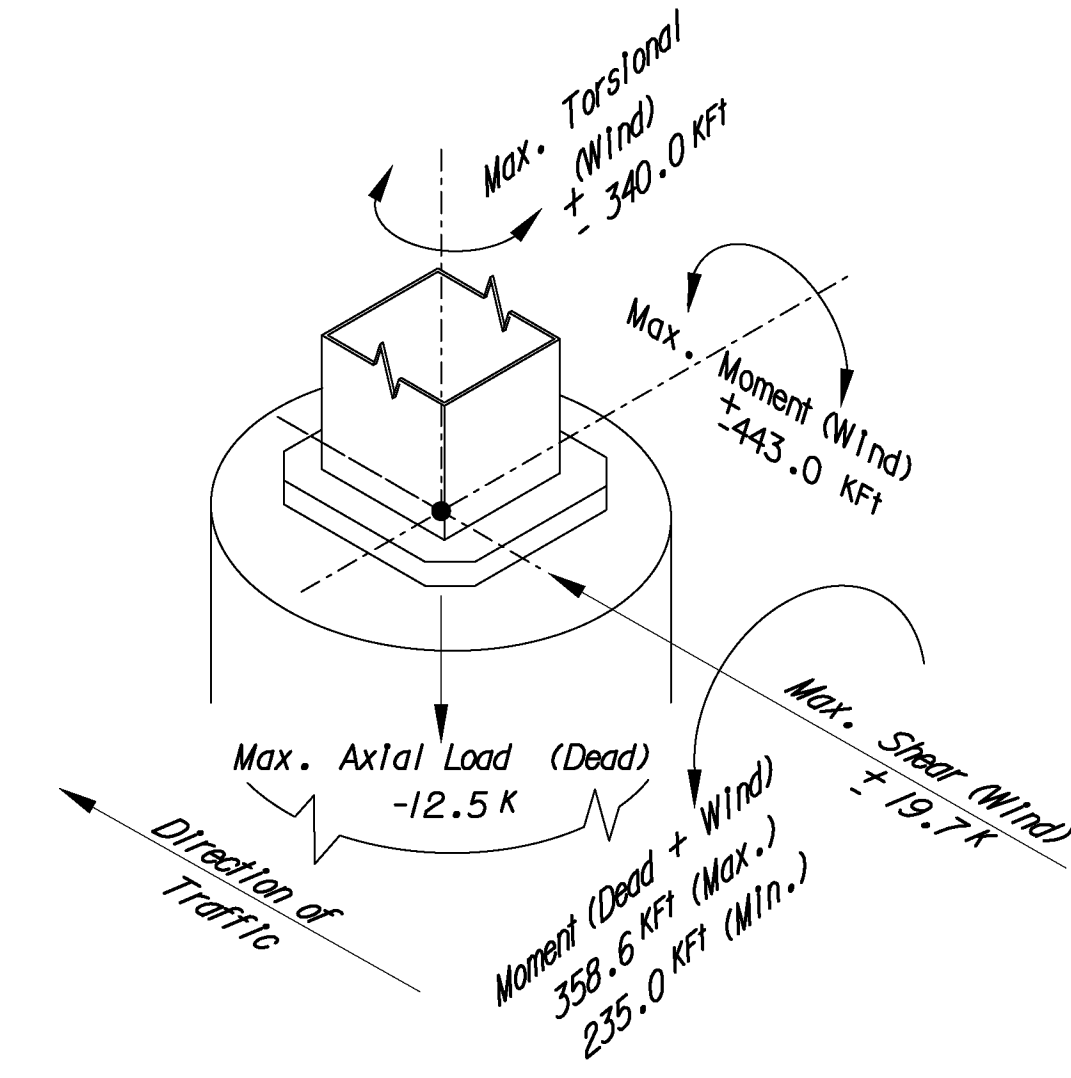
Design Wind Speed	110 MPH
Design Ice Load	3 PSF
Design VMS Weight	2,100 LBS.
Design VLS Weight	350 LBS.

CABLE ROUTING SCHEMATIC
(LOOKING IN THE DIRECTION OF TRAFFIC)

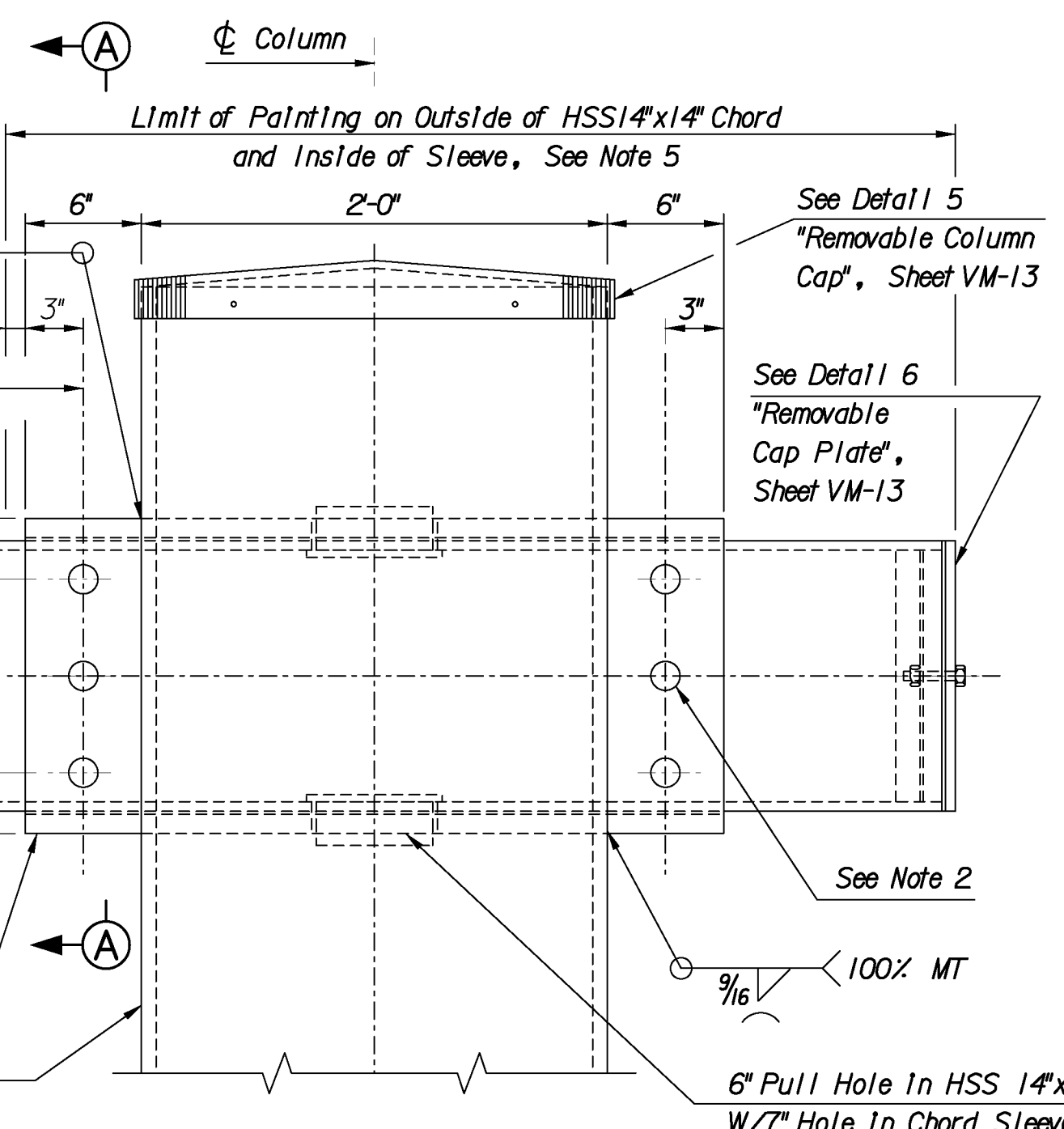
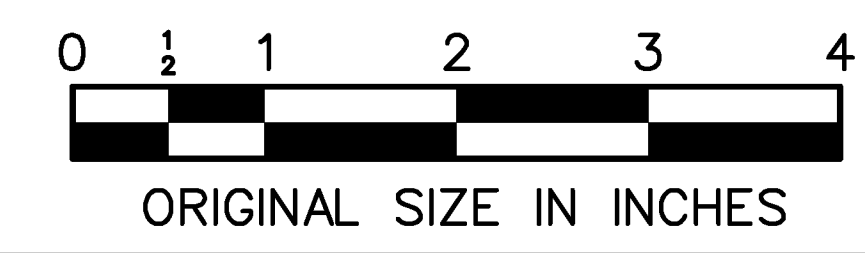
(Option 1: Chord Sleeve Connection Shown, Option 2: Column-Stub Connection Similar)
(Structures on Right Shoulder Shown, Structures on Left Shoulder Similar and as Noted)
3/8" = 1'-0"

NOTES:

- Chord Sleeve-to-Column welds in Option 1 and Stub-to-Column welds in Option 2, and all welds of Fabricated Tube Sections shall be 100% tested. All other welds shall be 10% UT.
- To facilitate wire pulling, the 1 1/4" Pipe Sleeve located in the center of the 3 bolts adjacent to the removable cap shall be installed in the field after the wires have been pulled through the chords. Welding of the Pipe Sleeve shall not be required.
- Full penetration groove weld longitudinal chord/stub to splice plate. Upon completion of weld, backer ring shall be chipped out and ground smooth.
- Grommets shall be placed from inside the chord or stub after structure assembly, and attached with an approved construction adhesive.
- Painting of column & chord sleeve shall be in accordance with the NJTA Standard Specifications, Section 411, using Coating System C. Paint color shall conform to Subsection 411.06 (G).
- See ITS Drawings for size, type and number of conduits in structure foundation.
- Stainless Steel Grommets shall be McMaster-Carr Item No. 4911K12 and 4911K15, as appropriate, or approved equal.

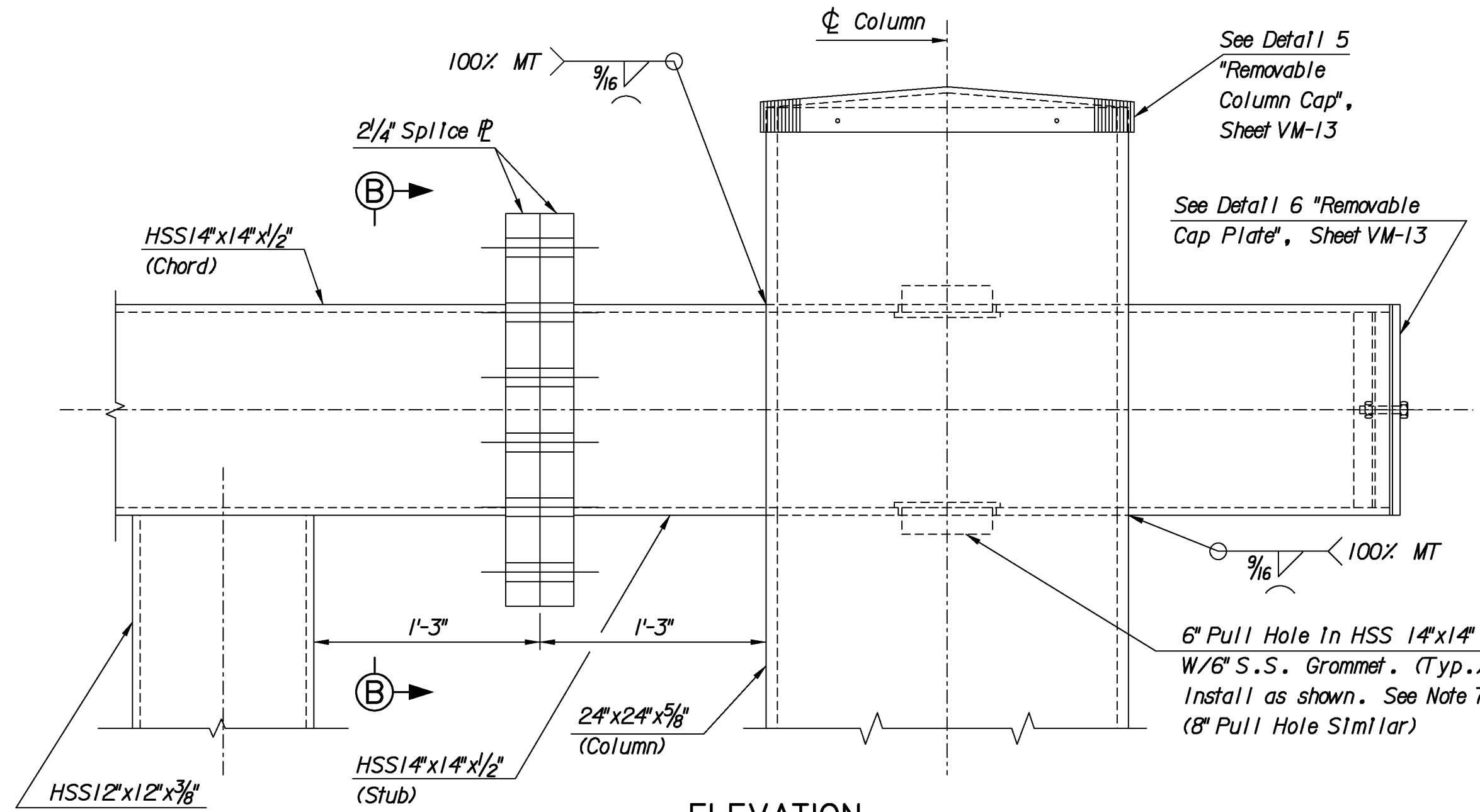


FOUNDATION LOADING DIAGRAM
(All Loads Unfactored)
N.T.S.



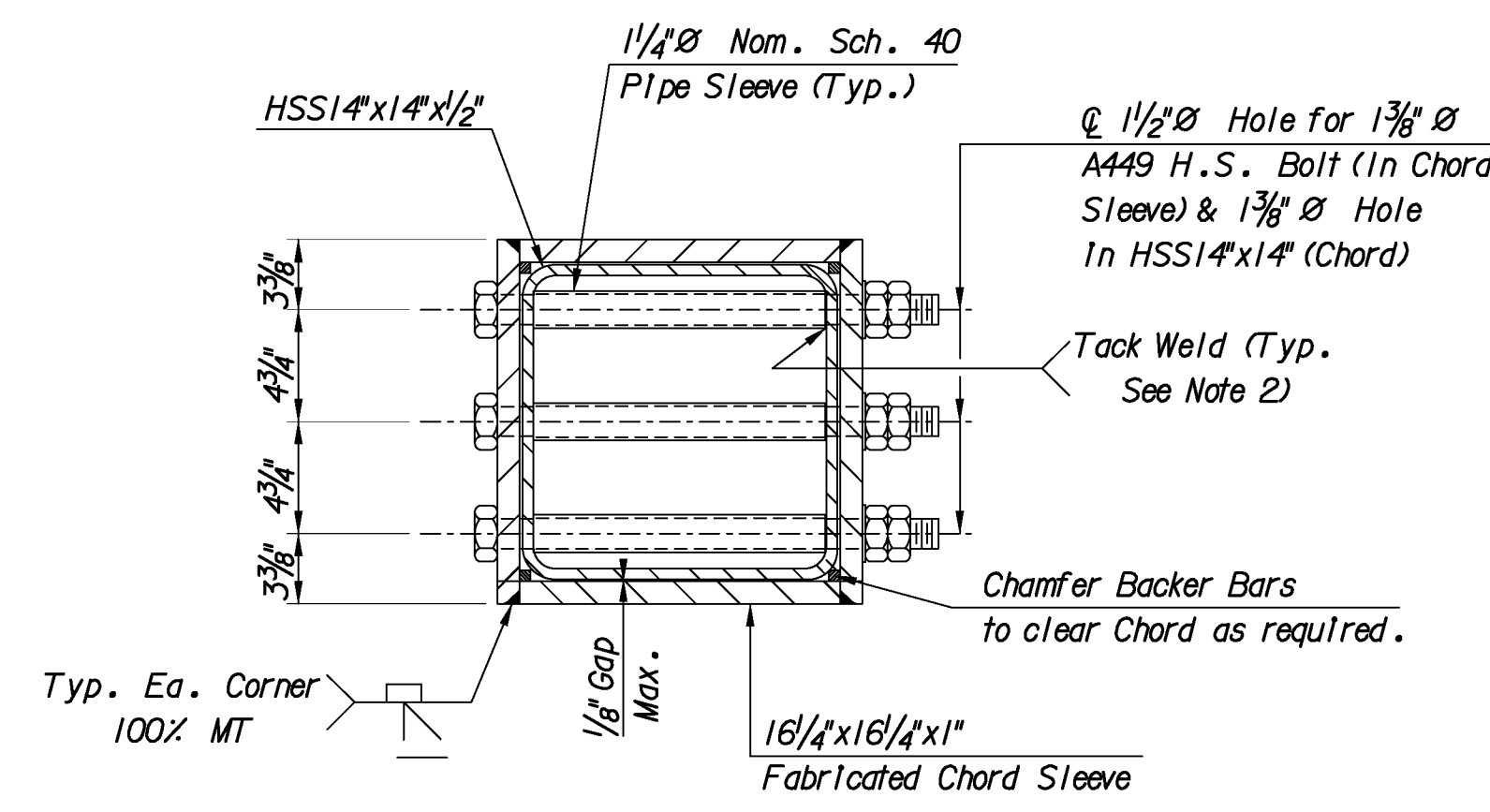
ELEVATION

(Top Chord Shown, Bottom Chord Similar)



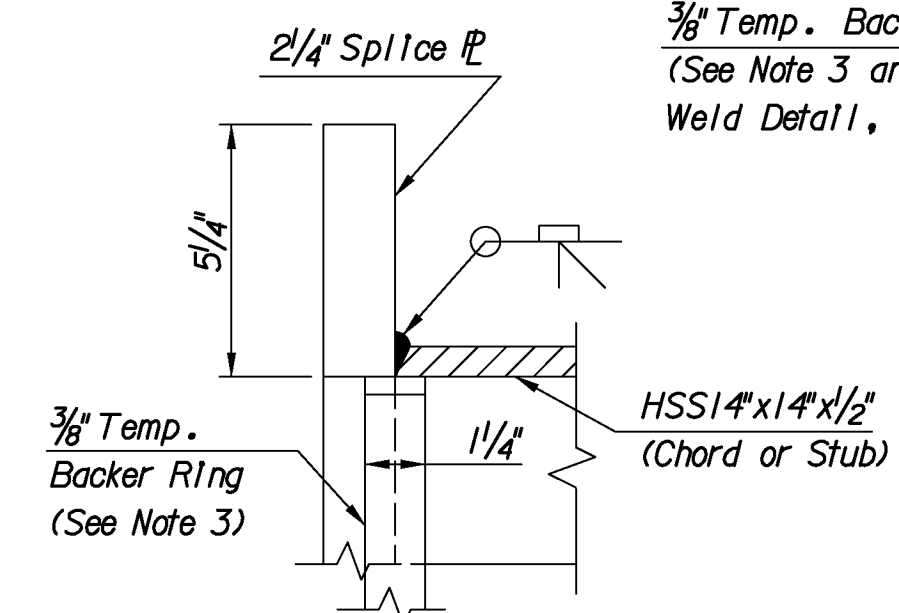
ELEVATION

(Top Chord Shown, Bottom Chord Similar)

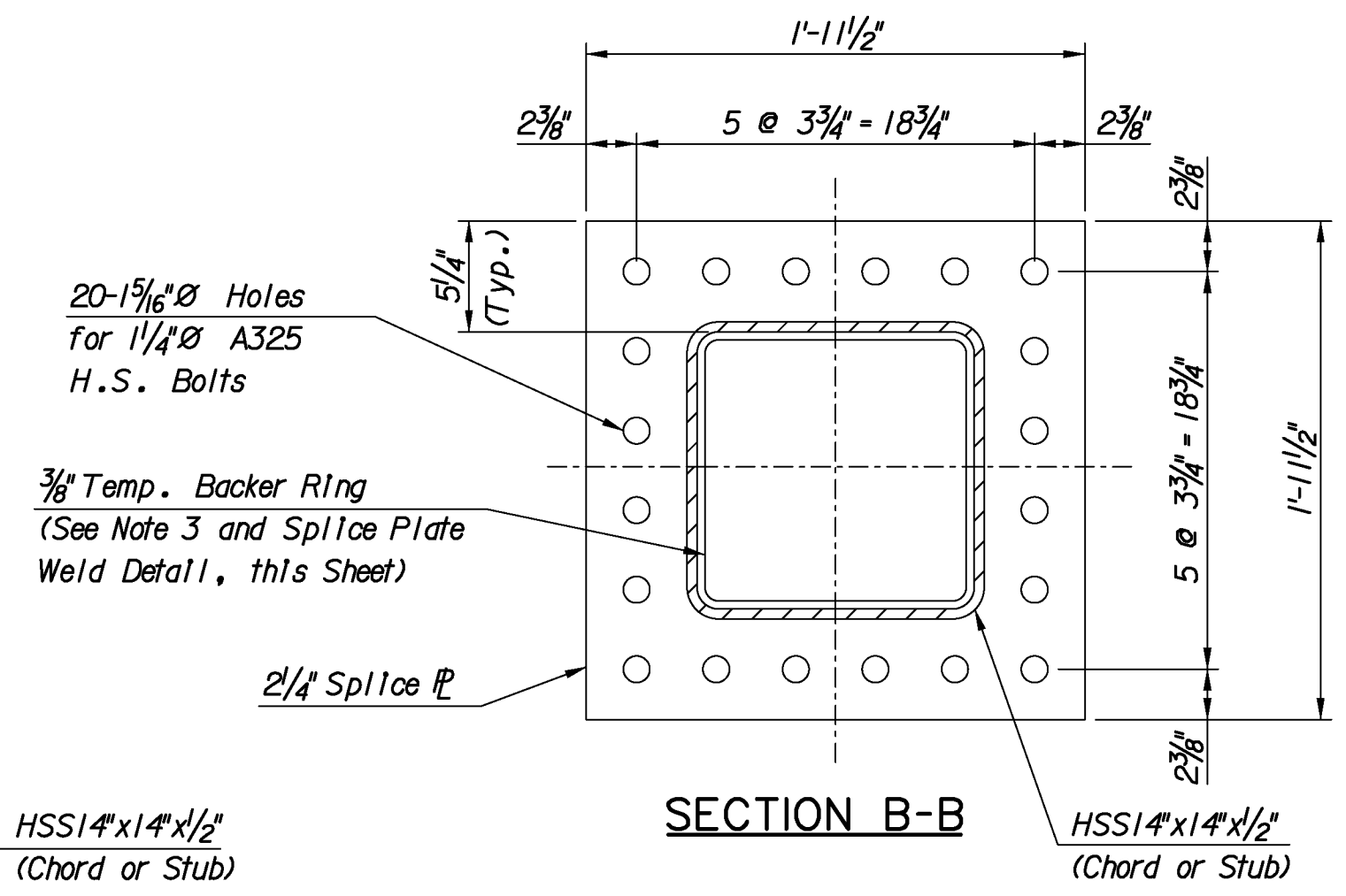


SECTION A-A

OPTION 1: COLUMN SLEEVE CONNECTION
1 1/2" = 1'-0"



SPlice PLATE WELD DETAIL
3" = 1'-0"



SECTION B-B

OPTION 2: COLUMN-STUB CONNECTION
1 1/2" = 1'-0"

APP. NO.	C	03/14	CONFORMED DRAWING
REVISION			

CONTRACT NO.

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
CANTILEVER VMS/VLS SUPPORT STRUCTURE
WIRE ROUTING AND TRUSS DETAILS
OFFICE OF THE CHIEF ENGINEER
NEW JERSEY TURNPIKE AUTHORITY
WOODBRIDGE NEW JERSEY
2009 STANDARD
DRAWING **VM-12**

SHEET NO.

OF