

**NOTES**

- DRAWINGS SHALL NOT BE SCALED.
- STEEL COLUMN AND CHORD PIPES SHALL BE API SPEC. 5L GRADE X42, PSL-2,  $F_y = 42,000$  PSI\*\*
- PLATES, BARS & STRUCTURAL ANGLES SHALL BE ASTM A709 GRADE 36,  $F_y = 36,000$  PSI
- STEEL ANCHOR RODS SHALL MEET THE REQUIREMENTS OF ASTM F1554 GRADE 55, ASTM A563A HEAVY HEX NUTS, AND ASTM F436 WASHERS.
- UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIA. A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.
- ALL STRUCTURAL STEEL MEMBERS, PLATES, ANCHOR RODS, H.S. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED PER SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.
- WELD TEST AS PER AWS D11.
- EXACT LOCATION OF SIGN BRIDGE SHALL BE DETERMINED BY THE REGION TRAFFIC ENGINEER.
- PREFABRICATE CAMBER INTO THE HORIZONTAL SUPPORT PROVIDING AN AMOUNT "Y" AT END OF TRUSS SHOWN IN "CAMBER DIAGRAM". DO NOT RAKE VERTICAL UPRIGHT BY ADJUSTMENT OF LEVELING NUTS.
- SEE SIGN PLATE NO. A4-6 OF THE SIGN PLATE MANUAL FOR INSTRUCTION ON CENTERING SIGN VERTICALLY ON TRUSS.
- \*\* SEE WISDOT BRIDGE MANUAL SECTION 39.3 FOR ACCEPTABLE ALTERNATE MATERIAL. STEEL WITH YIELD STRENGTH BELOW 42,000 PSI REQUIRES A COMPLETE ANALYSIS OF THE STRUCTURE.
- WELDED CONNECTIONS MAY BE USED IF UNIT CAN BE GALVANIZED IN ONE PIECE.
- ELEVATIONS TO BE SHOWN ON "GENERAL LAYOUT" SHEET.
- 20'-0" MIN. FOR OSOW HIGH CLEARANCE ROUTE, 18'-3" MIN. FOR ALL OTHERS.

**DESIGN DATA**

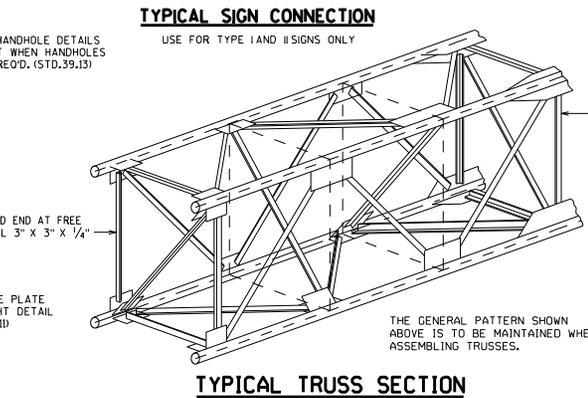
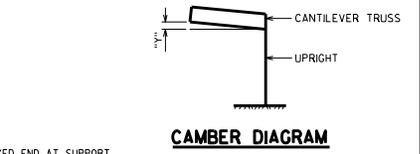
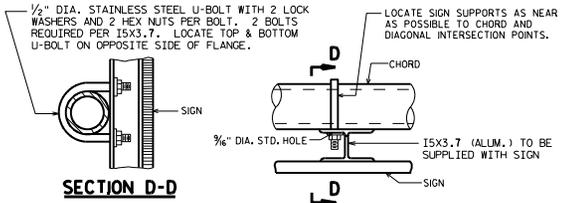
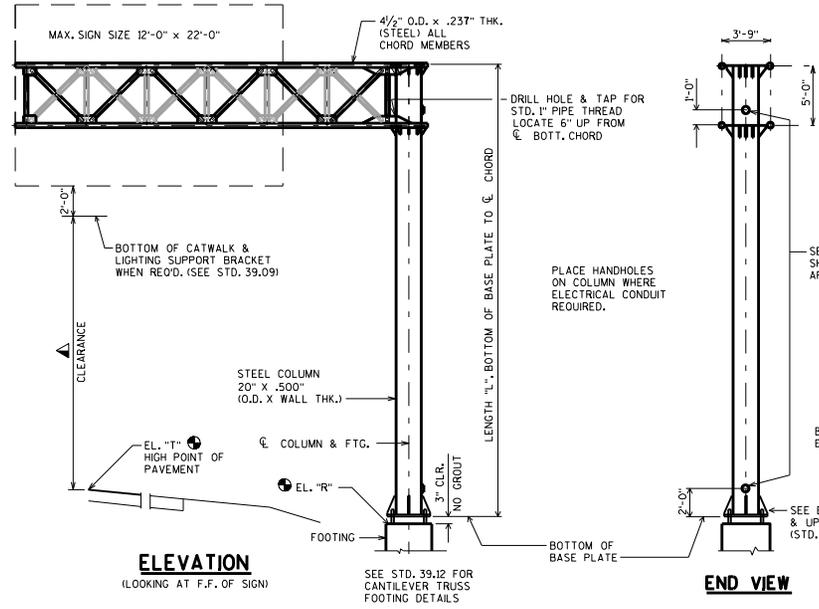
DEAD LOAD - 3 PSF OF SIGN, WT. OF SUPPORTING STRUCTURE, CATWALK, LIGHTS AND RAILINGS.  
 ICE LOAD - 3 PSF TO 1FACE OF SIGN & AROUND SURFACE OF MEMBERS.  
 WIND PRESSURE - 90 MPH (3-SECOND GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS.  
 FATIGUE CATEGORY I WITHOUT GALLOPING WIND EFFECTS.

DESIGNED ACCORDING TO THE 4TH EDITION AND INTERIM REVISIONS OF AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS."

**DESIGNER NOTES**

		CAMBER VALUES				
		"Y" (IN.)				
"L"	"A"	32	30	28	26	24
30	4 1/8	3 1/2	2 7/8	2 3/8	1 7/8	
28	3 3/4	3 1/4	2 3/4	2 1/4	1 3/4	
26	3 3/8	3	2 1/2	2 1/8	1 3/4	
24	3 3/8	2 7/8	2 3/8	2	1 1/2	
22	3 1/8	2 5/8	2 1/4	1 7/8	1 1/2	

"A" & "L" IN FT.  
 INTERPOLATE FOR VALUES NOT SHOWN  
 TABLES REFLECT CATWALK LOADING. FOR CAMBER VALUES WITHOUT CATWALK LOADING, MULTIPLY TABLE VALUES ABOVE AS FOLLOWS:  
 MULTIPLY "Y" BY .72



STANDARDS 39.9, 39.11, 39.12 AND 39.13 DETAILS ARE USED WITH THIS STANDARD TO DETAIL A "GALVANIZED STEEL CANTILEVER SIGN TRUSS" FOR TYPE I AND II SIGNS ONLY.

**GALVANIZED STEEL CANTILEVER SIGN TRUSS**

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 STRUCTURES DEVELOPMENT SECTION

APPROVED: Bill Oliva DATE: 7-16