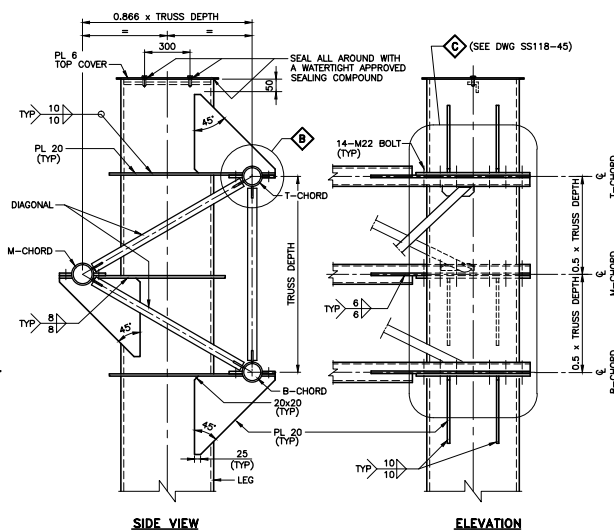
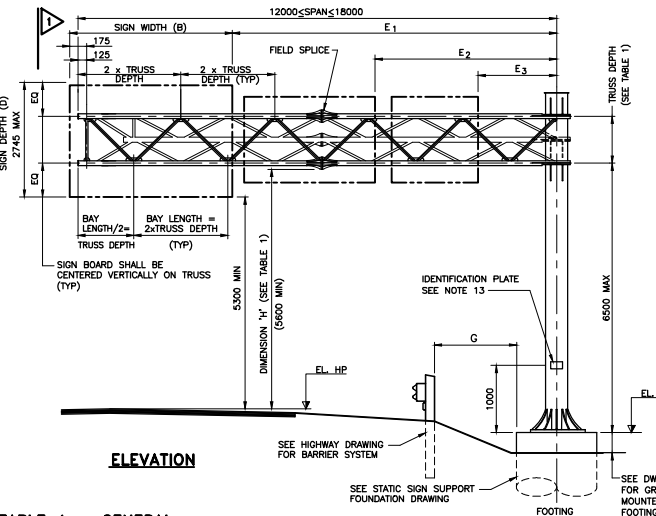
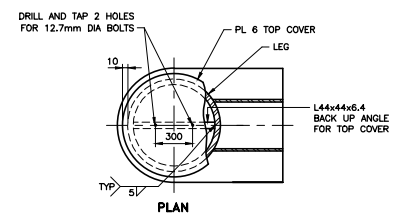
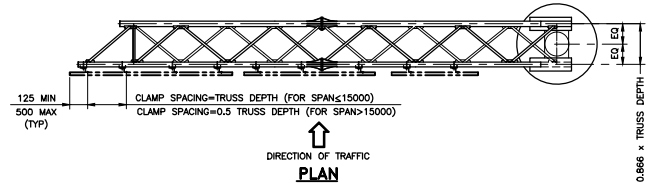


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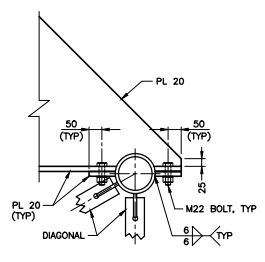
METRIC
 DIMENSIONS ARE IN METRES AND/OR
 MILLIMETRES UNLESS OTHERWISE SHOWN
 DRAWING NOT TO BE SCALED
 100mm ON ORIGINAL DRAWING

Ministry of Transportation

CONT WP	
CANTILEVER TRI-CHORD STATIC SIGN SUPPORT GENERAL ARRANGEMENT	
SHEET	



**TRUSS TO LEG CONNECTION
DETAIL**



- NOTES:**
- ALL SECTIONS SHALL BE STRUCTURAL STEEL UNLESS NOTED.
 - ALL STRUCTURAL STEEL SHALL BE ACCORDING TO CAN/CSA-G40.20-13/G40.21-13 GRADE 300W OR ASTM SPECIFICATION A500 GRADE C OR A51-5L-X46 FOR ROUND SECTION OF O.D. ≥ 508mm.
 - TOTAL SIGN BOARD AREA ON STRUCTURE SHALL NOT EXCEED 28.7m², BASED ON A REFERENCE WIND PRESSURE OF 600 Pa.
 - ALL NON STAINLESS STEEL BOLTS, NUTS AND WASHERS SHALL BE ACCORDING TO ASTM A325M AND BE HOT-DIP GALVANIZED UNLESS NOTED.
 - ALL STAINLESS STEEL BOLTS, NUTS AND WASHERS SHALL BE ACCORDING TO ASTM F593 ALLOY 304 WITH A MINIMUM YIELD STRESS OF 480 MPa AND A MINIMUM TENSILE STRENGTH OF 715 MPa.
 - ALL NON STAINLESS STEEL BOLTS SHALL BE INSTALLED BY TURN OF NUT TIGHTENING IN CONFORMANCE WITH CAN/CSA S6-06.
 - ALL STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. LESS ONLY SHALL BE SUBSEQUENTLY COATED WITH AN APPROVED PAINT SYSTEM ACCORDING TO OPSS 911.
 - STRUCTURE SHALL NOT BE ERRECTED UNTIL FOUNDATION CONCRETE HAS REACHED 80% OF SPECIFIED STRENGTH.
 - NO SHOP SPICES IN ANY MEMBER. TRUSS FIELD SPICES SHALL BE KEPT TO A MAXIMUM OF 1.
 - CLAMPS SHALL BE POSITIONED NEXT TO NODES.
 - SPAN LENGTHS AND ELEVATIONS TO BE VERIFIED IN THE FIELD BEFORE SIGN SUPPORT STRUCTURE FABRICATION.
 - THIS STANDARD TO BE READ IN CONJUNCTION WITH SS118-44, AND SS118-45, AND/OR SS118-3, AND/OR SS118-4, AND/OR SS118-5.
 - EACH SIGN SUPPORT SHALL HAVE AN IDENTIFICATION MARKING SHOWING THE SITE NUMBER, THE SIGN AREA AND THE LOCAL REFERENCE WIND PRESSURE AS SHOWN IN TABLE 1, THE MANUFACTURER'S NAME OR TRADEMARK, AND THE DATE OF MANUFACTURE. THIS 4mm THICK RECTANGULAR STAINLESS STEEL PLATE SHALL HAVE A RUBBER BACKING, AND BE OF SUFFICIENT DIMENSIONS TO ACCOMMODATE THE REQUIRED INFORMATION USING 6mm HIGH ENGRAVED LETTERING. THE PLATE SHALL BE ATTACHED TO THE LEG OF THE STRUCTURE BY MEANS OF STAINLESS STEEL BAND CLAMPS THAT GO THROUGH VERTICAL HOLES AT EACH SIDE OF THE PLATE, PASS BEHIND THE PLATE, AND WRAP AROUND THE LEG. NO DRILLING INTO THE HSS FOR ATTACHMENT OF PLATE IS PERMITTED.
- 14. LEGEND:**
- SST - DENOTES STAINLESS STEEL
 - O.D. - DENOTES OUTSIDE DIAMETER
 - T-CHORD - DENOTES TOP-CHORD
 - M-CHORD - DENOTES MIDDLE-CHORD
 - B-CHORD - DENOTES BOTTOM-CHORD

NOTES TO DESIGNER:

- DIMENSION G IS DEFINED AS THE HORIZONTAL CLEARANCE FROM THE BACK OF PROTECTIVE BARRIER TO THE NEAREST FACE OF CONCRETE FOOTING ACCORDING TO THE VALUES BELOW. THIS DOES NOT APPLY TO TEMPORARY CONCRETE BARRIER INSTALLATIONS.

PROTECTIVE BARRIER TYPE	MINIMUM CLEARANCE (m)
STEEL BEAM GUIDE RAIL	1.0
PERMANENT CONCRETE BARRIER	0.3

- THE 'NOTES TO DESIGNER' SHALL BE DELETED FROM THIS DRAWING PRIOR TO ISSUING.

REFER TO 2.4.1 IN THE SIGN SUPPORT MANUAL FOR PROFESSIONAL ENGINEER STAMPING REQUIREMENTS.

STANDARD DRAWING FEBRUARY 2019	SS118-43
CANTILEVER TRI-CHORD STATIC SIGN SUPPORT GENERAL ARRANGEMENT	

TABLE 1 - GENERAL

STATION	---
SITE NUMBER	---
SPAN	---
TRUSS DEPTH (C/C OF CHORDS)	---
DIMENSION 'H'	---
LOCAL REFERENCE WIND PRESSURE P ₀	---
1 SIGN SIZE (DxB)	---
2 SIGN SIZE (DxB)	---
3 SIGN SIZE (DxB)	---
E ₁	---
E ₂	---
E ₃	---
G	---
EL. HP	---
EL. P1	---
SUPPORT LEG O.D. x THICKNESS	---
T & B-CHORD O.D. x THICKNESS	---
M-CHORD O.D. x THICKNESS	---
DIAGONALS O.D. x THICKNESS	---
FOOTING TYPE (MEDIAN/GROUND)	---

TABLE 2 - SIGN BOARD: PARTS/HARDWARE

STATION	---	QUANT.	---
DESCRIPTION	---	---	---
12.7mm DIA. SST U-BOLT	---	---	---
SST NYLON INSERT STOP NUTS	---	---	---
SST WASHERS	---	---	---
PROFILLED CHANNEL (C130x13 / LENGTH AS REQ'D)	---	---	---
PROFILE FLANGES TO RECEIVE ARMS	---	---	---
Z-BRACKET (SUPPLIED BY OTHERS)	---	---	---
Z-BRACKET SPACING	---	---	---

DESIGN	CHK	CODE	CSA	S6-06	LOAD	DATE
DRAWN	CHK	SITE				DWG