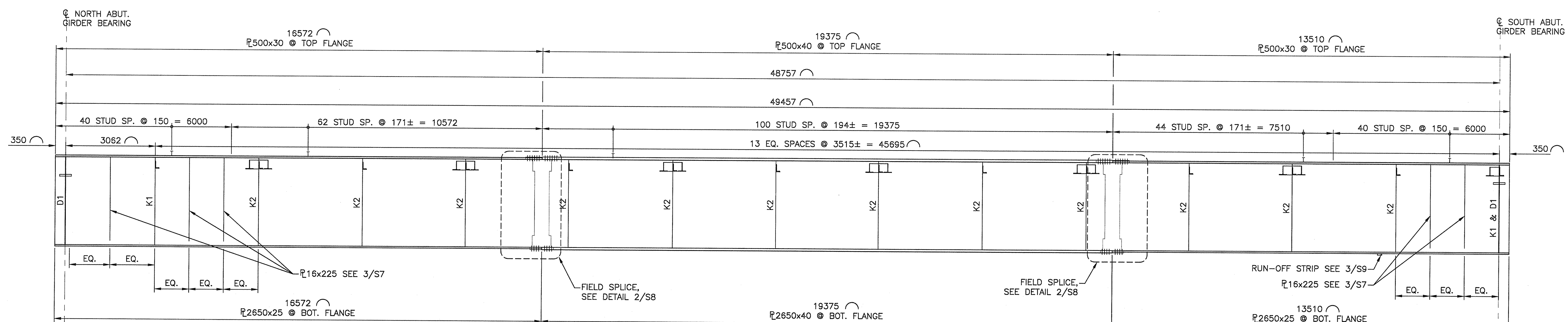


BOX GIRDER LAYOUT PLAN
SCALE : 1:75

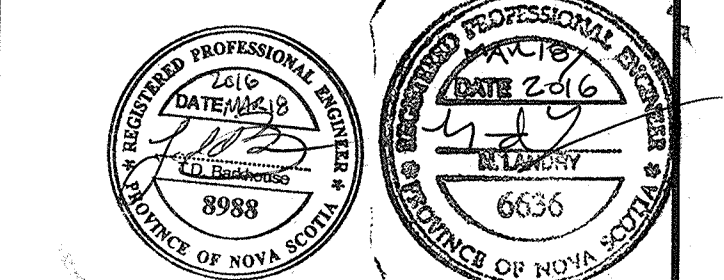
LEGEND:
K1 - TYPICAL INTERIOR VERTICAL BRACING - SEE SECTION B/S7
K2 - TYPICAL EXTERIOR VERTICAL BRACING - SEE SECTION C/S7
K3 - TYPICAL EXTERNAL VERTICAL BRACING - SEE SECTION B/S10
D1 - TYPICAL ABUTMENT DIAPHRAGM - SEE SECTION A/S10



SECTION - GIRDER 1 @ EAST TOP FLANGE
SCALE : 1:75 HORIZONTAL
SCALE : 1:50 VERTICAL

GIRDER NOTES:

- MATERIALS:**
- GIRDER WEBS, FLANGES, STIFFENERS, ANGLES, TEES AND PLATES TO CSA G40.20/G40.21-M-350WT CATEGORY 2
- HIGH STRENGTH BOLTS TO ASTM A325, TYPE 1-EXCLUDE THREADS FROM SHEAR PLANES
- ANCHOR BOLTS TO CSA G40.20/G40.21 350A
- SHEAR STUDS TO ASTM A-108-73
- FABRICATION:**
- CAMBER GIRDERS TO VALUES SHOWN ON DRAWING
- ENDS OF GIRDERS AND ALL STIFFENERS TO BE VERTICAL UNDER FULL DEAD LOAD
- ALL LENGTHS IN HORIZONTAL PLANE @ 15°C
- WELDING:**
- TO CSA W59-13
- WELDING SHALL ONLY BE UNDERTAKEN BY A COMPANY CERTIFIED BY THE CANADIAN WELDING BUREAU TO REQUIREMENTS OF CSA W47.1-09 (R2014).
- BOLTING:**
- ALL CONNECTIONS DESIGNED AS SLIP CRITICAL, UNO
- PRETENSION HIGH STRENGTH BOLTS IN ACCORDANCE WITH CAN/CSA-S6-14, TURN OF NUT TIGHTENING
- PAINT STEEL WHERE NOTED ON DRAWING AS SPECIFIED.**
- ERECTOR:**
- ENSURE STABILITY OF ALL STRUCTURAL COMPONENTS DURING HANDLING, TRANSPORTATION AND ERECTION UNTIL THE DECK CONCRETE HAS REACHED 75% OF SPECIFIED 28 DAY STRENGTH
- PLACEMENT OF DECK CONCRETE WILL NOT BE PERMITTED IF WIND SPEEDS OF MORE THAN 50 KPH ARE FORECAST FOR THE NEXT 3 DAYS
- DECK PARAPETS MUST NOT BE INSTALLED UNTIL DECK CONCRETE HAS REACHED 75% OF SPECIFIED 28 DAY STRENGTH
- STUD PROJECTION HEIGHT VARIES ALONG LENGTH. ACCOUNT FOR SHAPE OF GIRDER "AT ERECTION". VALUES SHOWN ARE FOR GUIDANCE ONLY. CONDUCT OWN INDEPENDENT CALCULATIONS/ESTIMATES OF GIRDER CAMBER AND DEFLECTION AND DETERMINE THE REQUIRED STUD PROJECTIONS ABOVE THE TOP SURFACE OF THE GIRDER. STUD PROJECTIONS SHALL COMPLY WITH TYPICAL STUD LENGTH DETAIL 4/S07**



CO1	ISSUED FOR TENDER	MAR 18 2016
revisions		date

**CLYBURN BROOK
BRIDGE REPLACEMENT
CAPE BRETON HIGHLANDS
NATIONAL PARK,
NS**

GIRDER LAYOUT PLAN

designed TDB	conçu
date	
drawn TMB	dessiné
date	
approved NDL	approuvé
date	
Tender	2016.3.30
PWOSC Project Manager	Administrateur de projets TPSCG
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