

10M BARS

100

∠_{10M BARS}

TYPICAL SECTION THROUGH

EXTERIOR STRINGER

CONSTRUCTION JOINT

NOTE: ALL NOT SHOWN SIMILAR TO EXTERIOR STRINGER

TYPICAL SECTION THROUGH

INTERIOR STRINGER

STRINGER IDENTIFICATION

SKEW ANGLE, RIGHT OR LEFT-DEPTH OF STRINGER IN mm MK. $500 / 8 / E \text{ or } I / 30^{\circ} \text{ R/L}$ LENGTH OF STRINGER IN METERS-EXTERIOR OR INTERIOR STRINGER-

NOTES

DESIGN SPECIFICATIONS:

CAN/CSA-S6-06. BC MoT SUPPLEMENT TO S6-06.

DESIGN LOAD:

DESIGN LOAD: LIVE LOAD: CL-625 & BCL-625 DEAD LOAD: DESIGNED FOR 100mm CONCRETE OVERLAY. STRINGERS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE M.O.T. STANDARD SPECIFICATION 415: MANUFACTURE OF PRECAST AND PRESTRESSED

STANDARD SPECIFICATION 415: MANUFACTURE OF PRECAST AND PRESTRESSED CONCRETE MEMBERS.

4. PRESTRESSING STRANDS SHALL BE 130 (7 WIRE) UNCOATED LOW RELAXATION STRANDS, C.S.A. G279M-1982, 1862 MPG GRADE OR EQUIVALENT. MINIMUM ULTIMATE TENSILE STRENGTH = 184 KN/STRAND. STRAND TENSION IMMEDIATELY BEFORE RELEASE = 136.2 kN/STRAND.

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF RELEASE OF STRANDS = 27MPa, AT 28 DAYS = 35MPa. REINFORCING STEEL SHALL CONFORM TO C.S.A. G30.18M GRADE 400R.

REINFORCING STEEL SHALL HAVE 35mm MINIMUM COVER UNLESS OTHERWISE

ALL REINFORCING MARKED "ME" IS EPOXY COATED.

LAP OF BARS FOR SPLICES TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

10M BARS - 450

10ME BARS - 600

SPLICES TO BE STAGGERED.

BOTTOM EDGES OF STRINGERS SHALL BE CHAMFERED 20mm

LIFTING DEVICES SATISFACTORY TO THE ENGINEER SHALL BE PROVIDED OVER THE BEARINGS. ONLY VERTICAL LIFTS WILL BE PERMITTED. CARE SHALL BE TAKEN TO PREVENT SUDDEN IMPACT LOADS ON THE STRINGERS.

12. ENDS OF PRESTRESSING STRANDS SHALL BE TREATED AS FOLLOWS: EMBEDDED IN CONCRETE: PAINTED WITH A GANVANIZING AGENT. EXPOSED: A MINIMUM 3mm COAT OF THIXOTROPIC EPOXY AS SHOWN. MANUFACTURES INSTRUCTIONS TO BE STRICTLY ADHERED TO.

TOP OF BOXES SHALL HAVE A SAND BLASTED FINISH FOR CONCRETE OVERLAY AND FLOAT FINISH FOR NO OVERLAY OR MEMBRANE AND ASPHALT OVERLAY.

THE CONCRETE IMMEDIATELY SURROUNDING ALL LIFTING DEVICES SHALL HAVE A FORMED RECESS 65mm DEEP. THE RECESS SHALL BE THOROUGHLY SANDBLASTED IN THE SHOP. AFTER ERECTION, THE LIFTING DEVICE SHALL BE BURNT OFF AT THE BOTTOM OF THE RECESS AND THE RECESS SHALL BE PATCHED WITH AN APPROVED NON—SHRINK GROUT.

Rev	Date	Description	Init
С	07-06-28	DESIGN CODE REVISIONS	W.H.K.
В	93-02-04	GENERAL	J.E.S.
Α	92-11-12	LIFTING DEVICE RECESS & NOTES	K.L.



-THIXOTROPIC EPOXY SEE NOTE 12.

A THIXOTROPIC EPOXY LAYOUT

PRESTRESSING STRAND LAYOUT

SCALE 1:10

0 0

Ministry of Transportation & Infrastructure Bridge Engineering

STANDARD TWIN CELL CONCRETE BOX STRINGER MK. 500/8/E/30° & MK. 500/8/I/30°

EPARED UNDER THE DIRECTION DESIGNED _____ IM ____ DATE ______O7-07-10 ORIGINAL SIGNED BY B. BARNEWALL
 CHECKED
 RM
 DATE
 07-07-10

 DRAWN
 WHK
 DATE
 07-06-28
 SENIOR BRIDGE DESIGN AND CONSTRUCTION STANDARDS ENGINEER SCALE AS NOTED 93/02/12 NEGATIVE No. FILE No. 2978 - 4

CANCEL PRINTS BEARING PREVIOUS LETTER