

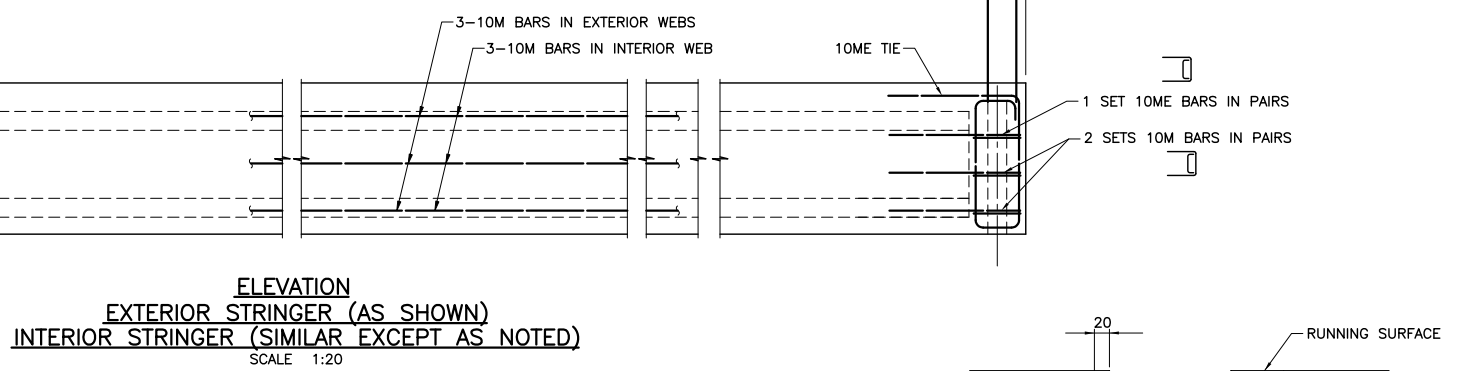
PLAN

ESTIMATED MASS	
STRINGER MK. 800/22/E	28 690 kg
STRINGER MK. 800/22/I	27 750 kg

STRINGER IDENTIFICATION	
MK. 800 / 22 / E OR I	DEPTH OF STRINGER IN mm
	LENGTH OF STRINGER IN METERS
	EXTERIOR OR INTERIOR STRINGER

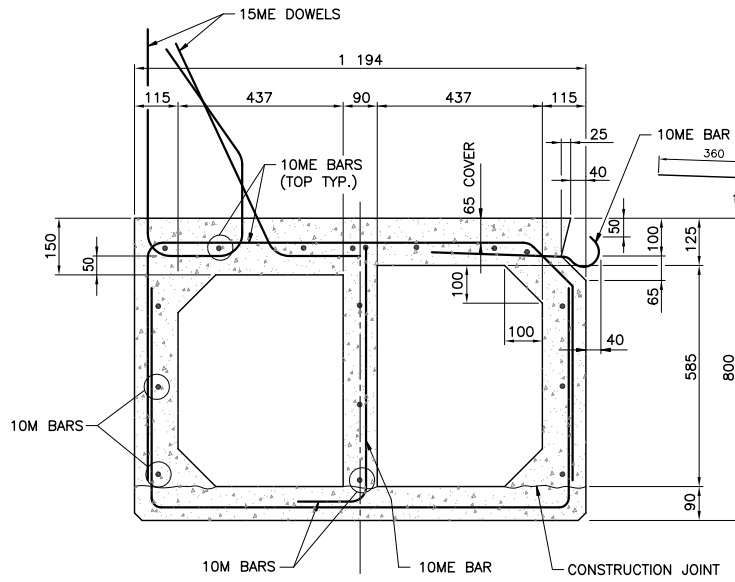
NOTES

- DESIGN SPECIFICATIONS:
CAN/CSA-S6-06.
BC MoT SUPPLEMENT TO S6-06.
- 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 CONCRETE MEMBERS.
- PRESTRESSING STRANDS SHALL BE 13 ϕ (7 WIRE) UNCOATED LOW RELAXATION STRANDS, C.S.A. G279M-1982, 1862 MPa 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 = 36MPa, AT 28 DAYS = 45MPa.
- REINFORCING STEEL SHALL CONFORM TO C.S.A. G30.18M GRADE 400R.
- REINFORCING STEEL SHALL HAVE 35mm MINIMUM COVER UNLESS OTHERWISE NOTED.
- 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.
- ENDS OF PRESTRESSING STRANDS SHALL BE TREATED AS FOLLOWS:
EMBEDDED IN CONCRETE: PAINTED WITH A GALVANIZING AGENT.
EXPOSED: A MINIMUM 3mm COAT OF THIXOTROPIC EPOXY AS SHOWN. MANUFACTURERS 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.

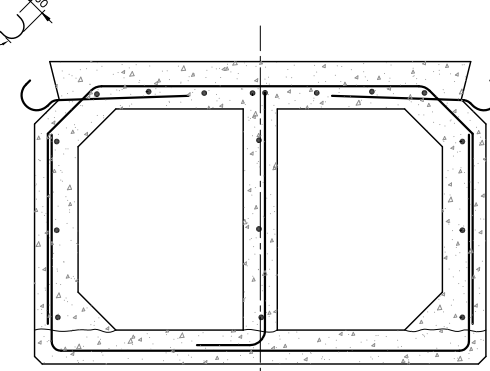


ELEVATION
EXTERIOR STRINGER (AS SHOWN)
INTERIOR STRINGER (SIMILAR EXCEPT AS NOTED)
SCALE 1:20

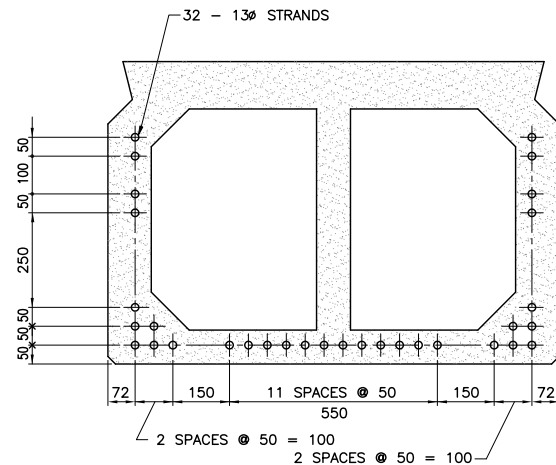
LIFTING DEVICE
RECESS DETAIL
SCALE 1:5



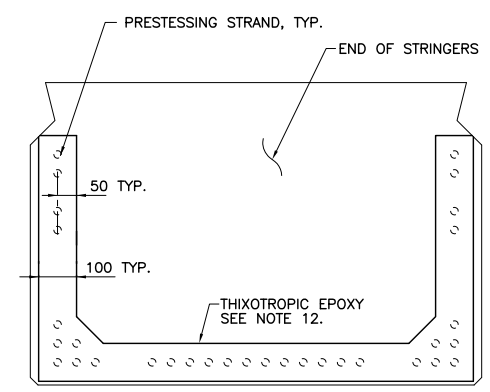
TYPICAL SECTION THROUGH
EXTERIOR STRINGER
SCALE 1:10



NOTE: ALL NOT SHOWN SIMILAR TO EXTERIOR STRINGER
TYPICAL SECTION THROUGH
INTERIOR STRINGER
SCALE 1:10



PRESTRESSING STRAND LAYOUT
SCALE 1:10



THIXOTROPIC EPOXY LAYOUT
SCALE 1:10

Rev	Date	Description	Init
DRAFT FOR INFORMATION ONLY			

REVISIONS	
Ministry of Transportation & Infrastructure Bridge Engineering	

**STANDARD TWIN CELL
CONCRETE BOX STRINGER
MK. 800/22/E & MK. 800/22/I**

PREPARED UNDER THE DIRECTION OF	DESIGNED	IM	DATE 07-07-10
SENIOR BRIDGE DESIGN AND CONSTRUCTION STANDARDS ENGINEER	CHECKED	RM	DATE 07-07-10
DATE	DRAWN	WHK	DATE 07-06-28
FILE No.	PROJECT No.	SCALE	AS NOTED
		REG.	DRAWING No.
			2978-29