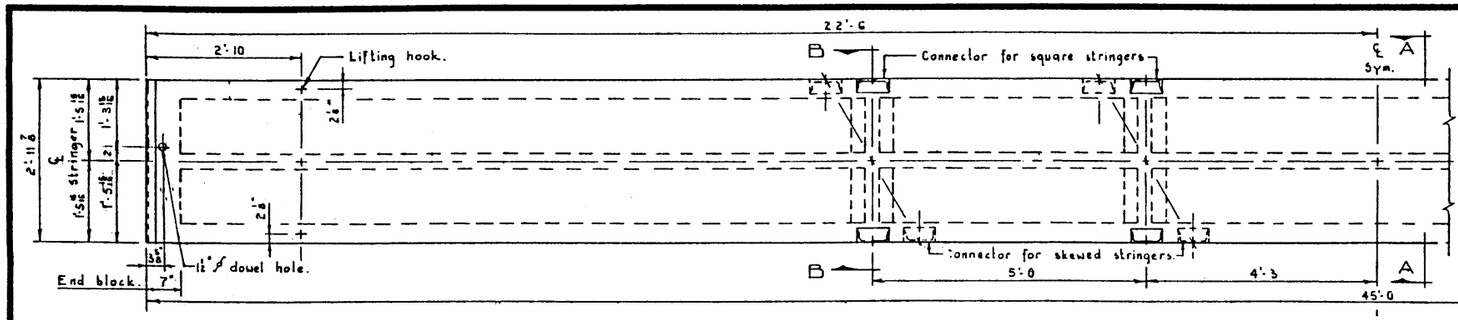
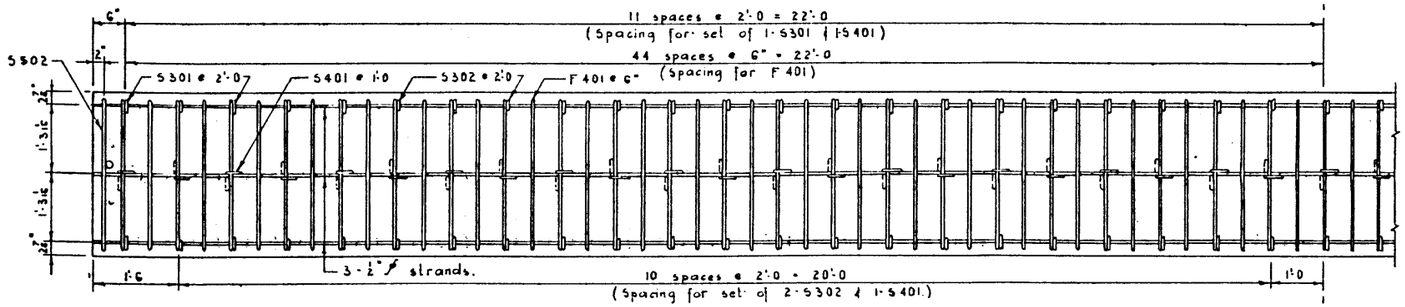


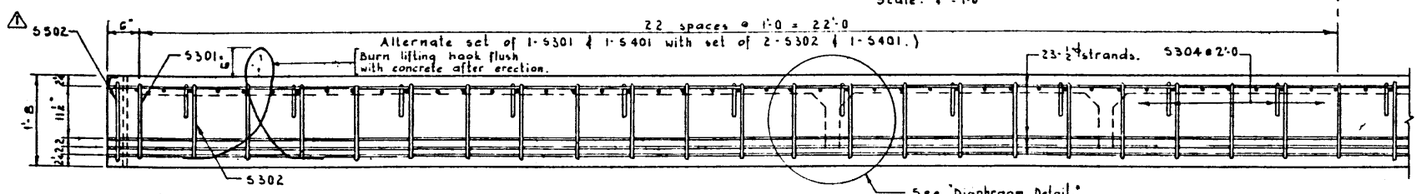
PLAN

Scale : ¾" = 1'-0



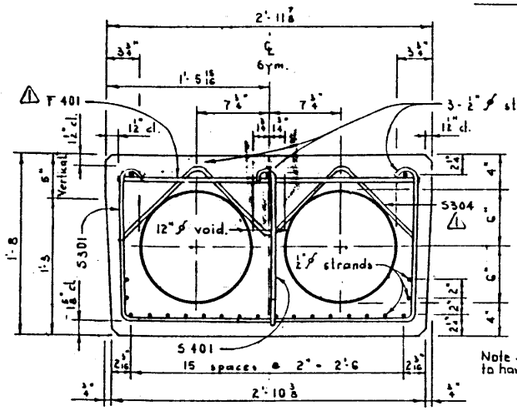
REINFORCEMENT PLAN

Scale : ¾" = 1'-0

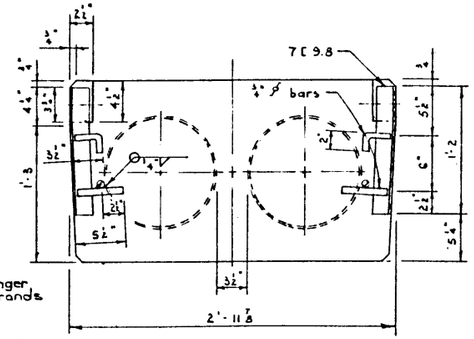


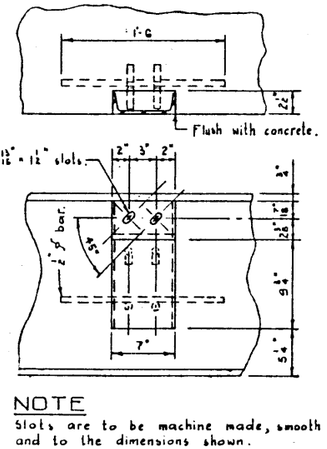
REINFORCEMENT ELEVATION

Scale : ¾" = 1'-0



Note - Each stringer to have 23-½" ∅ strands



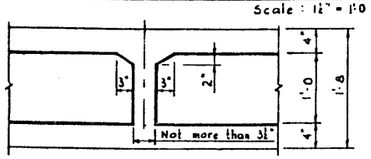


NOTE

Slots are to be machine made, smooth and to the dimensions shown.

SECTION A-A

Scale : 12" = 1'-0



NOTE: Skewed stringers to have skewed diaphragms.

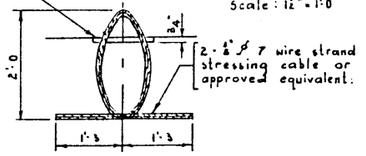
DIAPHRAGM DETAIL

Scale : 1" = 1'-0

¾" recess around lifting cable. Grout after erection.

SECTION B-B

Scale : 12" = 1'-0



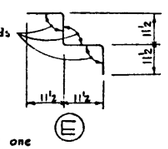
LIFTING HOOK

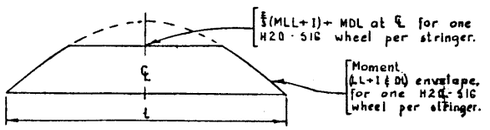
Scale : ¾" = 1'-0

STRINGER CONNECTOR

8 req'd / stringer.

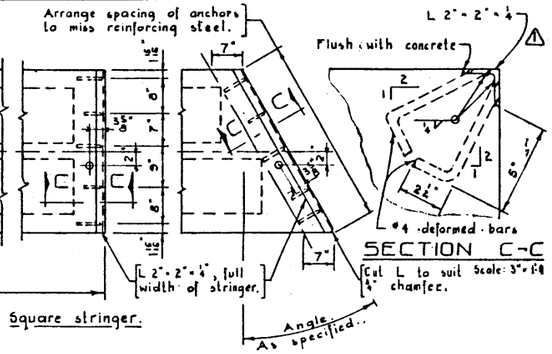
Scale : 12" = 1'-0

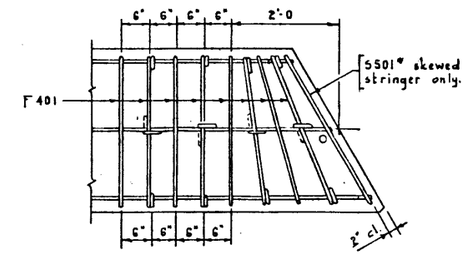




DESIGN LIVE & DEAD LOAD MOMENT ENVELOPE

N.T.S.





NOTE

All other details to conform to those shown for square stringers. (On skewed stringers the lifting holes are to be placed 19'-8 from the mid-point of the unit.)

SKEWED STRINGER

Scale : ¾" = 1'-0

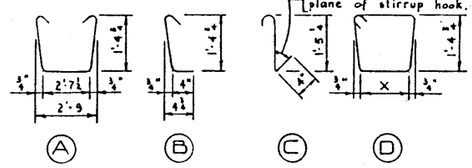
BAR LIST

Mark.	Size.	No.	Type.	X	Length.	Weight.
S 301	3	23	A		6'-1	53
S 302	3	44	B		2'-1	34
S 401	4	45	C		2'-3	68
S 502	5	2	D	2'-7½	8'-10	18
F 401	4	89	Str.		2'-9	163
* S 501	5	2	D		3'-10	
S 304	3	22	E		3'-10	32

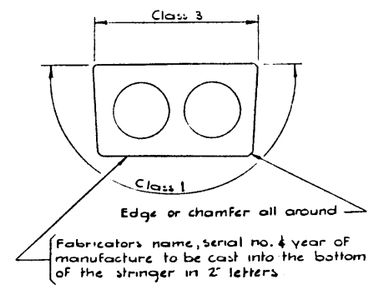
* Skewed stringer only. Total lbs. 368

BAR TYPES N.T.S.

(All bar dimensions are out to out.)



NOTE:
Ends to be square & plumb
Bearing areas to be smooth and true.



⚠ STRINGER FINISHES

-GENERAL NOTES-

DESIGN

Live Load - A.A.S.H.O. - 1961 Specification, modified as shown.
Dead Load - includes allowance for 2" wearing surface.

MATERIALS

Concrete shall be of standard weight aggregate with maximum size of ¾". Minimum compressive strength shall be 5000 p.s.i. @ 28 days. Entrained air shall fall between the limits of 4.5% ± 1%.

FABRICATION

All acute corners on skewed bridges to have ¾" chamfer.
Reinforcement - Diameters of all bends shall conform to the recommended minimums, and all hooks, unless otherwise noted shall conform to the recommended sizes detailed in the A.C.I. Manual of Standard Practice for Detailing Reinforced Concrete Structures.
Prestressing Steel - Initial jack forces shall be 24.4 k/ cable.
Concrete must attain (4,500) p.s.i. compressive strength before the prestressing force is transferred.
Each connector is to be supplied with one ¾" ∅ x 2" high tensile bolt, one heavy hex semi-finished nut and three hardened washers.

Units are to conform to the requirements of the Alberta Government Specification for the Manufacture of Prestressed Concrete Bridge Units.

ERECTION

- Lifting force at each hook is to be vertical.
- Stringer surface to be level at all times.
- Any free space between connectors shall be filled with washers.

DESIGNED BY Robert E. Bolter DATE July 1962
DETAILED BY B.W. Sawicki DATE Aug. 1 1962
CHECKED BY DATE

NO.	DATE	DESCRIPTION	BY
		REVISIONS	
⚠	Nov 27/62	Notes, S402, S304, F401 & Finishes	B.St.

PRESTRESSED CONCRETE ROUND VOID TYPE 'K' 45'-0 STRINGER

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS
BRIDGE BRANCH, EDMONTON

FILE NO. HWY. NO. DWG. NO.
LOCATION SCALE Noted S-803
STREAM SHEET OF

P 02119