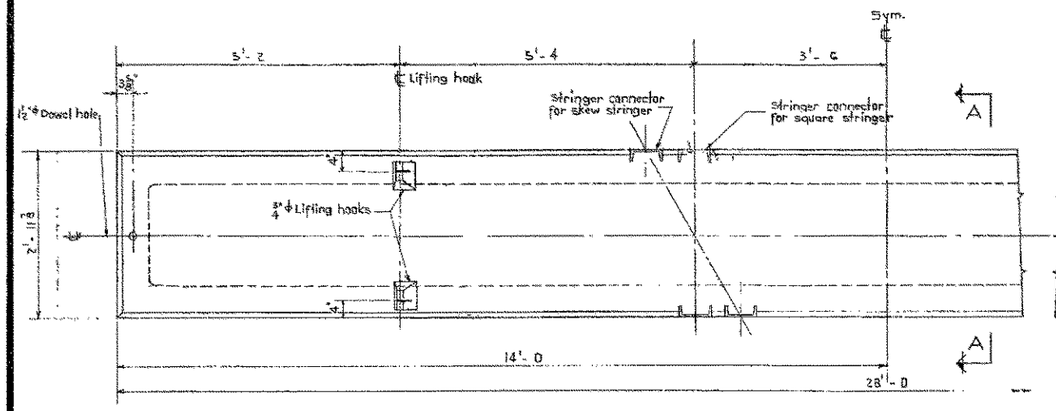
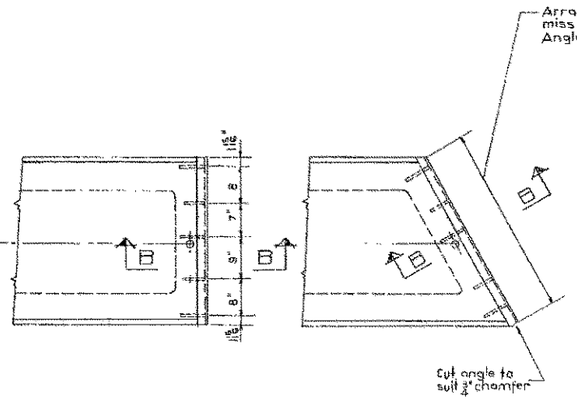
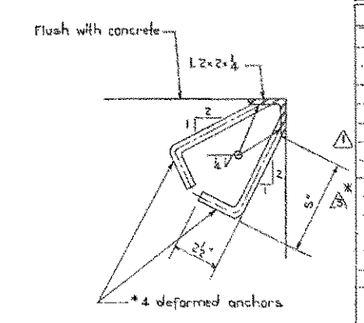


PLAN VIEW
Scale ¾"=1'-0



PROTECTION ANGLES
Scales ¾"=1'-0

⚠4 To be supplied both ends of all stringers



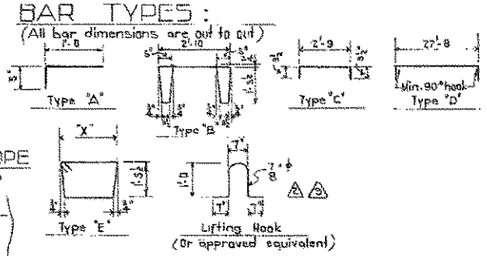
SECTION B—B
Scale 3"=1'-0

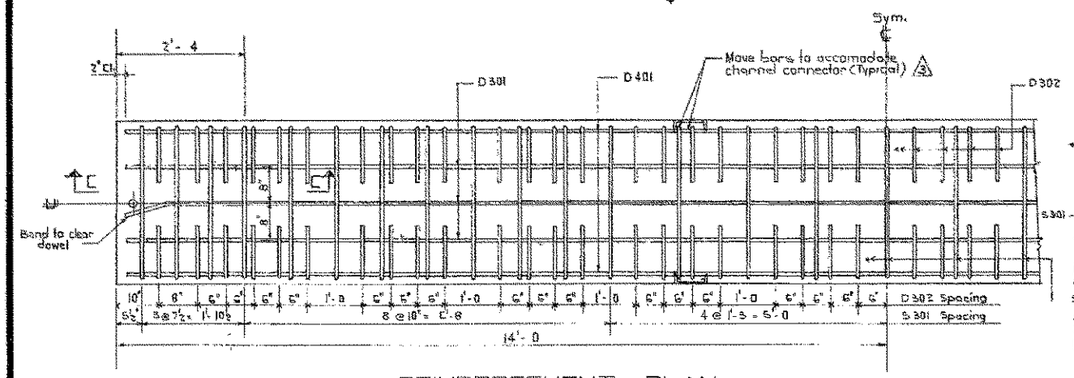
BAR LIST

MARK	SIZE	NO	TYPE	X	LENGTH	WEIGHT
D 301	5	5	Str		27'-8	574#
D 302	3	88	A		1'-5	47#
S 301	3	31	B		9'-4	109#
D 401	4	2	Str		27'-8	37#
D 501	5	28	Str		2'-8	78#
G 801	8	2	Str		24'-0	128#
G 901	9	2	Str		27'-6	187#
G 902	9	2	D		28'-11	197#
S 302	3	2	B			
G 301	3	4	C		3'-4	5#
D 303	3	27	Str		2'-8	27

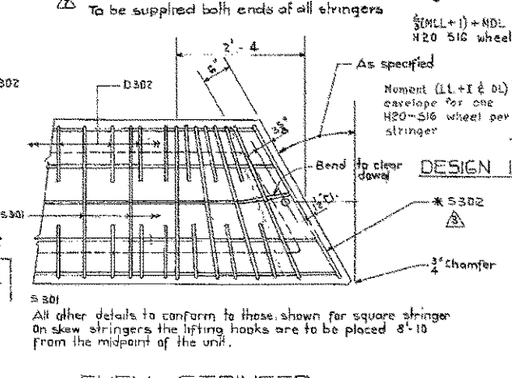
* For skewed stringer only. Total weight: 842#

BAR TYPES :
(All bar dimensions are out to out)

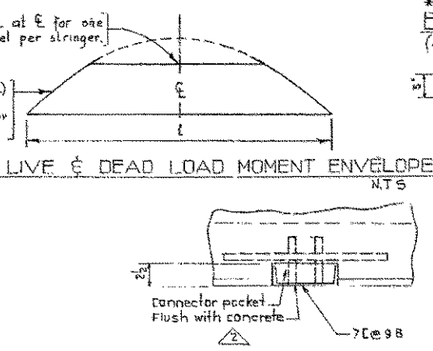




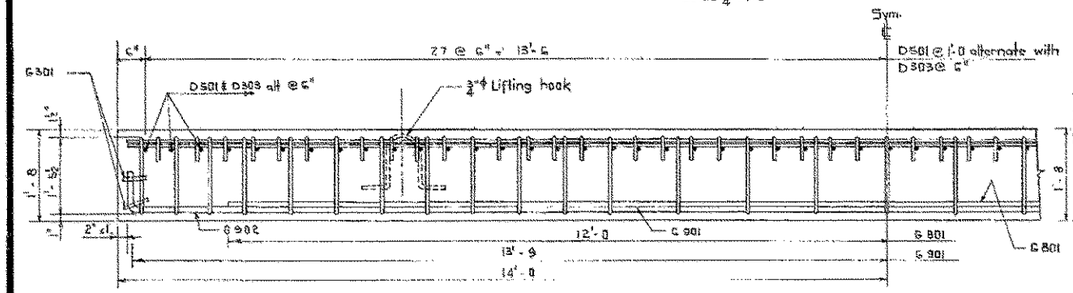
REINFORCEMENT PLAN
Scale ¾"=1'-0



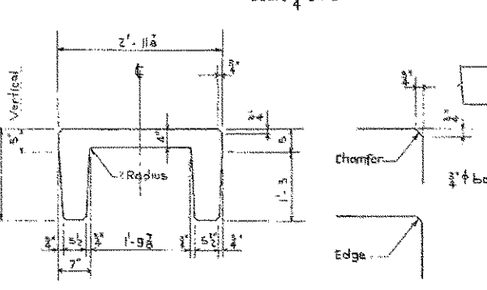
All other details to conform to those shown for square stringer On skew stringers the lifting hooks are to be placed 8'-10 from the midpoint of the unit.



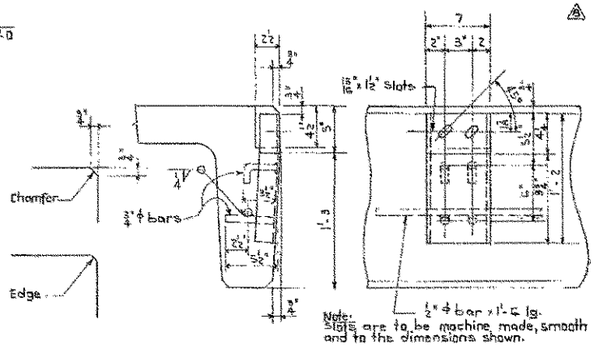
DESIGN LIVE & DEAD LOAD MOMENT ENVELOPE
N.T.S



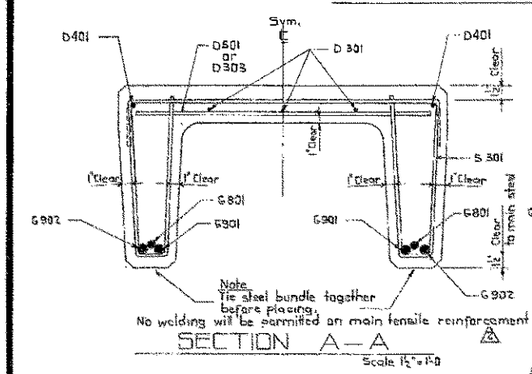
REINFORCEMENT ELEVATION
Scale ¾"=1'-0



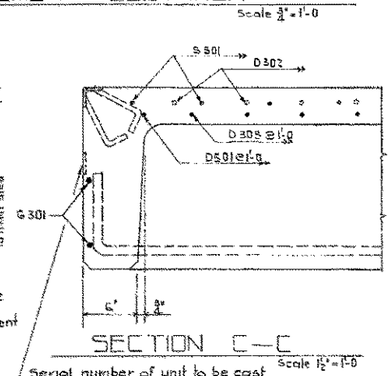
SECTION A—A
Scale ¾"=1'-0



STRINGER CONNECTORS
Scale 1½"=1'-0

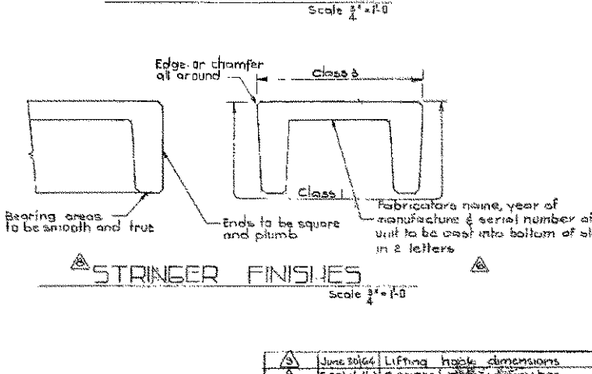


SECTION A—A ⚠3
Scale 1½"=1'-0

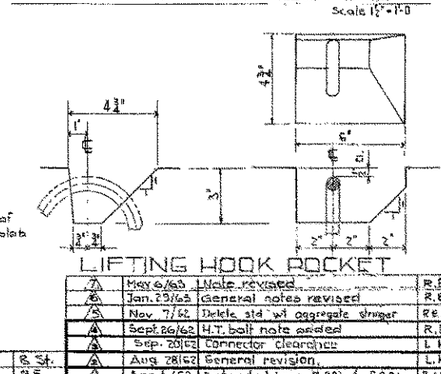


Serial number of unit to be cast into end of unit in numbers 2" high ⚠3

SECTION C—C
Scale 1½"=1'-0



⚠3 STRINGER FINISHES
Scale ¾"=1'-0



LIFTING HOOK POCKET

GENERAL NOTES :

DESIGN

Live Load - A.A.S.H.O. H20 - S16 modified as shown.

Dead Load - Includes allowance for 2" wearing surface.

Concrete - to be light weight aggregates with maximum aggregate size of ¾ inch. Minimum 28 day compressive strength to be 4000 p.s.i. The unit weight of the concrete shall be 105 pounds per cubic foot plus or minus 5% when unit weight is determined in conformity with the requirements of the specification A.S.T.M. C330.

CONSTRUCTION

Entrained Air shall be between 5% & 8%.
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.G.I. Manual of Standard Practice for Detailing Reinforced Concrete Structures.
Each stringer shall have a cast camber of ¾ inch.
All acute angles or skewed stringers shall have ¾ inch chamfer.
Concrete shall attain at least 80% of the specified 28 day compressive strength before the units are stripped from the forms or lifted.
Each connector is to be allowed one ¾ ϕ x 2" H.T. bolt, one heavy hex semi finished nut and three hardened washers. (Supplied by Dept.)

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

ERECTION

Any free space between the connectors shall be filled with washers.

SUPERSEDED BY S-781
Sept. 7, 1965

⚠3	June 20/64	Lifting hook dimensions	S. St.
⚠2	Sept. 16/63	General notes & finishes	R.E.
No.	DATE	DESCRIPTION	BY

REVISIONS

⚠5	May 6/63	Note revised	R.E.
⚠4	Jan. 29/63	General notes revised	R.E.
⚠3	Nov. 7/62	Delete std. wt aggregate stringer	R.E.B.
⚠2	Sept. 26/62	H.T. bolt note added	R.E.
⚠1	Sep. 20/62	Connector clearances	L.K.
⚠1	Aug. 28/62	General revision.	L.K.
⚠1	Aug. 1/62	Extended bars G 801 & G 901.	B.W.S.
NO.	DATE	DESCRIPTION	BY

REVISIONS

PRECAST CONCRETE
28 FT. SPAN TYPE "HC"
INTERIOR STRINGER

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

FILE NO. ____ HWY. NO. ____ DWG. NO. S-781
LOCATION ____ SCALE as shown
STREAM ____ SHEET ____ OF ____

DESIGNED BY G.R.M. DATE May 19 52
DETAILED BY L. Kahlmann DATE May 19 52
CHECKED BY R.E.B. DATE May 19 52

ALBERTA RECORDS CENTRE P.79-0038

(2)