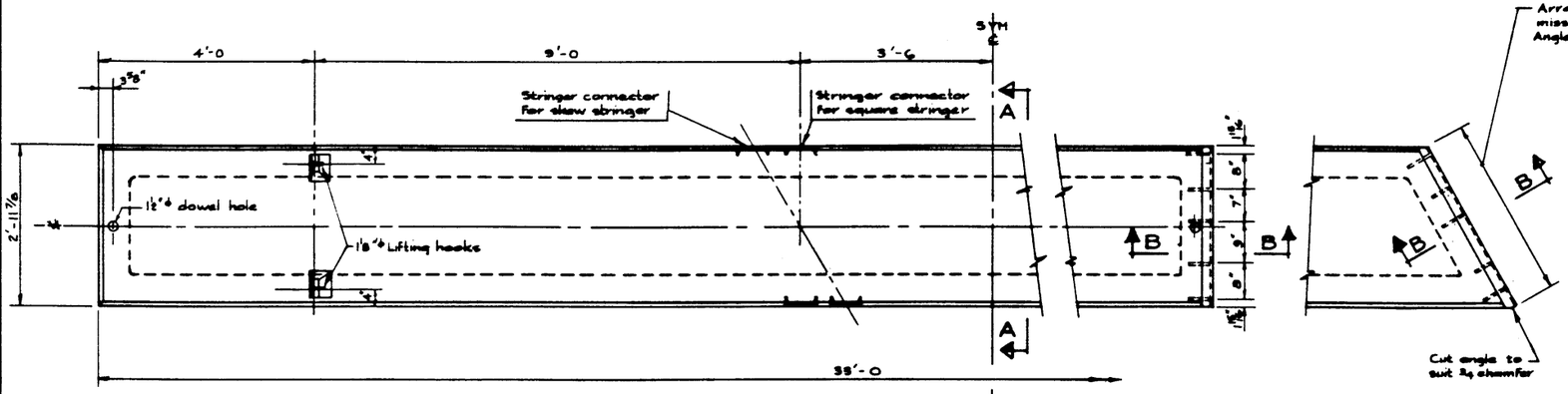
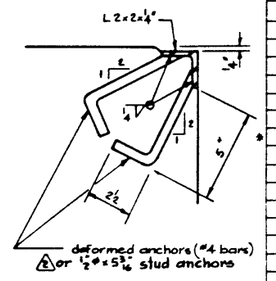


PLAN VIEW
Scale: 3/4" = 1'-0

PROTECTION ANGLES
Scale: 3/4" = 1'-0

To be supplied both ends of all stringers.

SECTION B–B
Scale: 3" = 1'-0

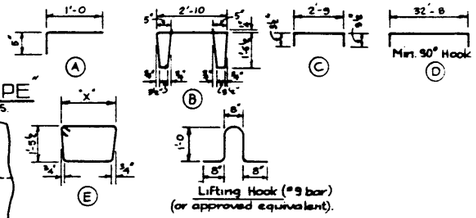


BAR LIST

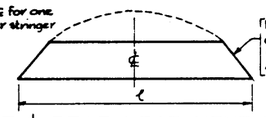
MARK	SIZE	NO.	TYPE	"X"	LENGTH	WEIGHT
D 301	3	5	Str.		32' - 8	37
D 302	3	100	A		1' - 5	53
S 301	3	39	B		9' - 4	137
D 401	4	2	Str.		32' - 8	44
D 501	5	33	Str.		2' - 8	92
G 1001	10	2	Str.		28' - 0	241
G 1002	10	2	Str.		32' - 0	275
G 1003	10	2	D		34' - 1	293
S 302	3	2	E	Varies		
G 301	3	4	C		3' - 4	5
D 303	3	32	Str.		2' - 8	32

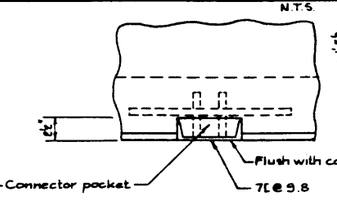
For skewed stringer only — Total weight: 1209

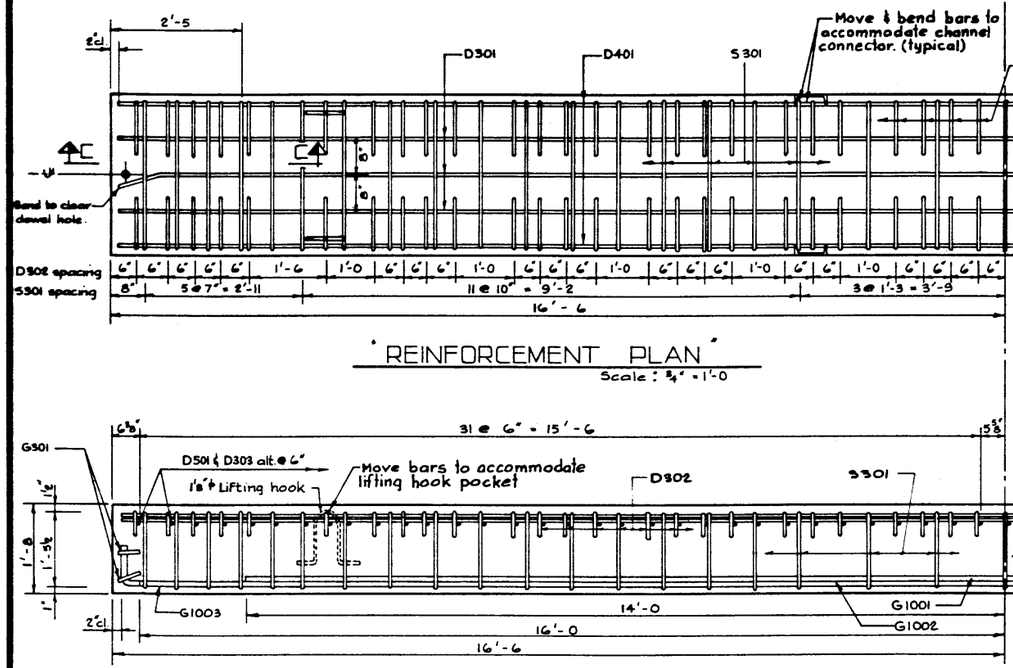
BAR TYPES (All bar dimensions are out to out)



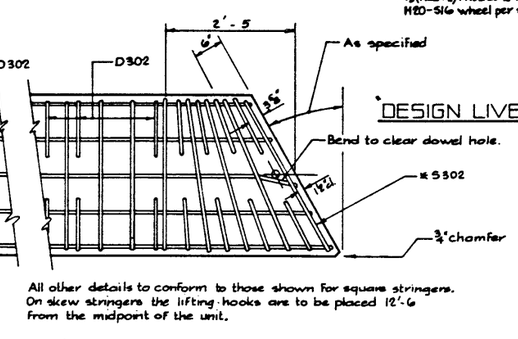
DESIGN LIVE & DEAD LOAD MOMENT ENVELOPE
N.T.S.







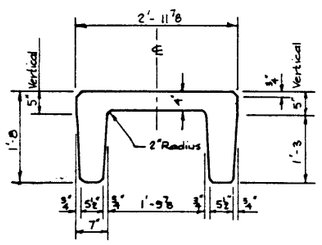
REINFORCEMENT PLAN
Scale: 3/4" = 1'-0



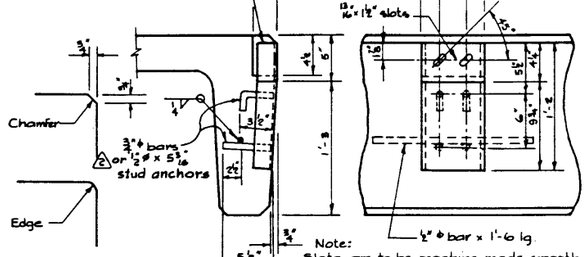
All other details to conform to those shown for square stringers. On skew stringers the lifting hooks are to be placed 12'-6 from the midpoint of the unit.

SKEW STRINGER
Scale: 3/4" = 1'-0

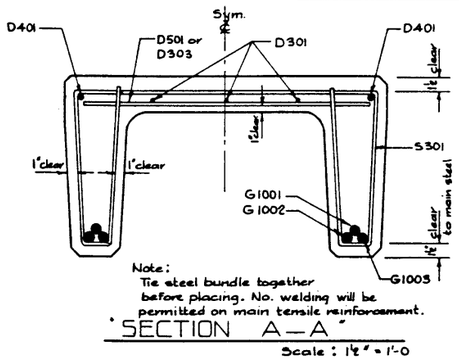
REINFORCEMENT ELEVATION
Scale: 3/4" = 1'-0



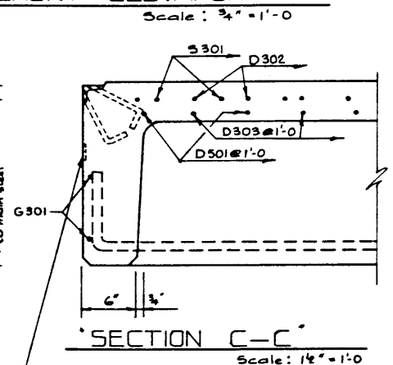
SECTION A–A
Scale: 3/4" = 1'-0



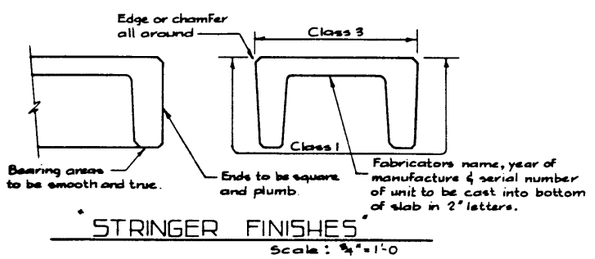
STRINGER CONNECTORS
Scale: 1 1/2" = 1'-0



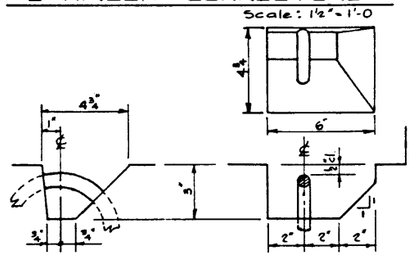
SECTION A–A
Scale: 1 1/2" = 1'-0



SECTION C–C
Scale: 1 1/2" = 1'-0



STRINGER FINISHES
Scale: 3/4" = 1'-0



LIFTING HOOK POCKET
Scale: 3" = 1'-0

GENERAL NOTES

DESIGN

- Live Load - A.A.S.H.O. HS 20-44 modified as shown.
- Dead Load - Includes allowance for 2" wearing surface.
- Concrete - to be standard weight aggregates with maximum aggregate size of 3/4 inch. Minimum 28 day compressive strength to be 4000 p.s.i.

CONSTRUCTION

- Entrained Air shall be not less than 5%.
- 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*
- Each stringer shall have a cast camber of 3/4 inch.
- All acute angles on skewed stringers shall have 3/4 inch chamfer.
- Concrete shall attain at least 30% of the specified 28 day compressive strength before the units are stripped from the forms or lifted.
- Each connector is to be allowed one 3/4" diameter x 2" H.T. bolt, one heavy hex semi finished nut and three hardened washers (Supplied by Dept.).
- Stringers shall 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.

(3)

DESIGNED BY R.E.B. DATE May 19 68
DETAILED BY R.E.B. DATE May 19 68
CHECKED BY P.H. Gregg DATE May 19 68

NO.	DATE	DESCRIPTION	BY
3	Jan. 27/71	Stud anchors-alternate added	R.W.K.
2	Jan. 8/69	Redrawn	V.B.I.P.C.
1			

REVISIONS

PRECAST CONCRETE
33 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-784
LOCATION _____ SCALE .02 shown
STREAM _____ SHEET ____ OF ____