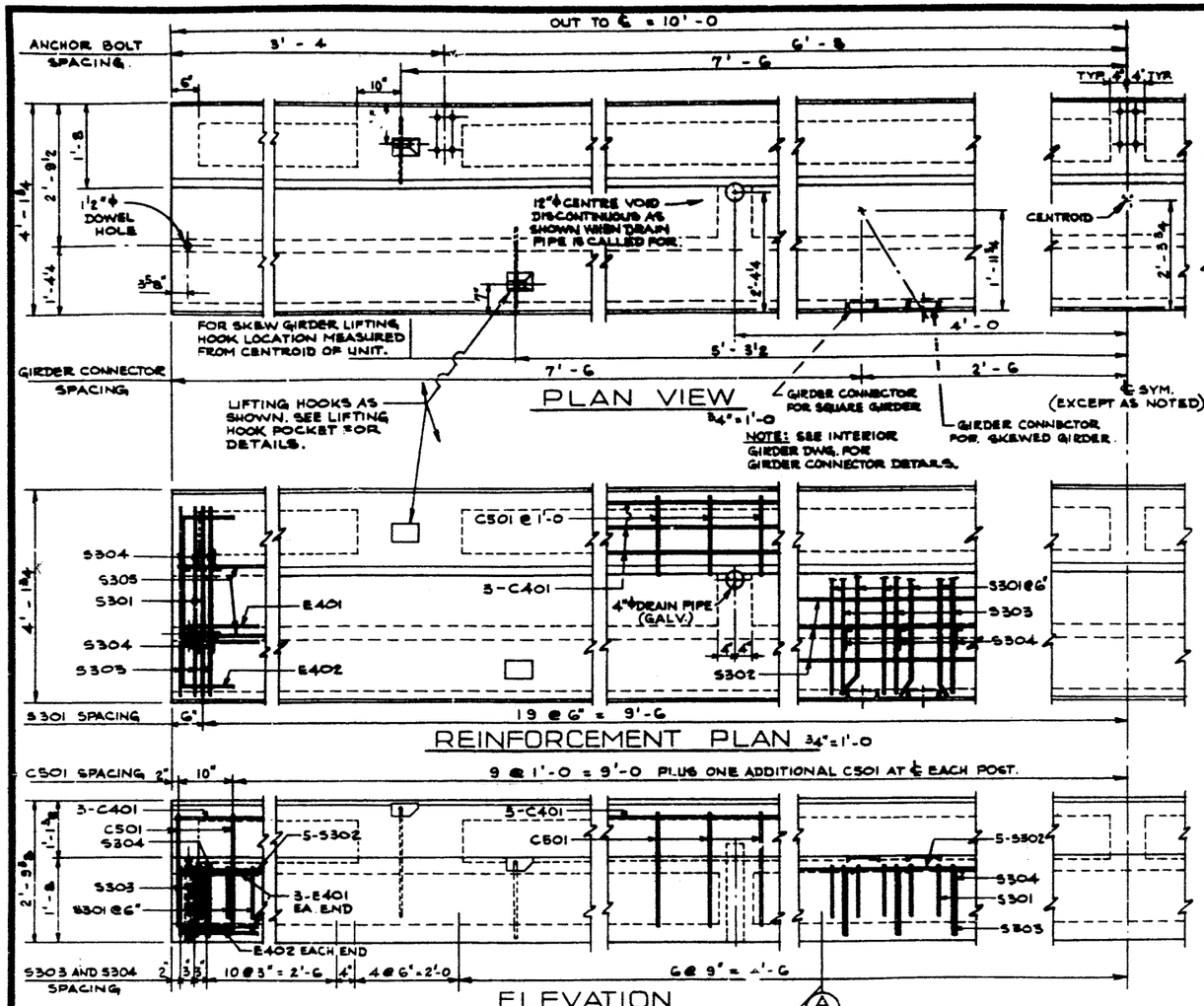


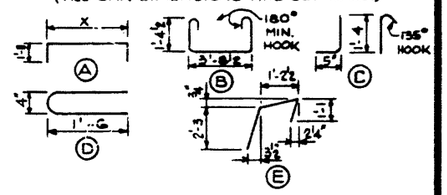
BAR LIST: FOR UNSKEWED GIRDER

MARK	SIZE	NO.	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	39	A	3'-8½		8'-8	84
S 302	3	5	STR.			19'-8	37
S 303	3	47	B			7'-4	130
S 304	3	92	C			2'-1	72
S 305	3	2	STR.			19'-4	15
E 401	4	6	D			3'-4	13
E 402	4	2	A	3'-4		5'-4	7
C 401	4	3	STR.			19'-8	39
C 501	5	23	E			4'-7	110

TOTAL LBS: 507

BAR TYPES N.T.S.

(ALL BAR DIMENSIONS ARE OUT TO OUT)



GENERAL NOTES

DESIGN:

- A.A.S.H.O. 1973 SPECIFICATION EXCEPT AS MODIFIED BELOW.
  - ALLOWABLE TENSION AT ℄ 80% MODULUS OF RUPTURE.
  - NO TENSION IN DECK SURFACE.
  - WEB REINFORCEMENT - ACCORDING TO A.C.I. 318-71 BUT NOT LESS THAN A.A.S.H.O. MINIMUM.
- LOADING LIVE LOAD - A.A.S.H.O. HS-25-44 ONE WHEEL LINE PER GIRDER
  DEAD LOAD - GIRDER = 0.663 KPS/FT.
  WEARING SURFACE = 0.063 KPS/FT.

MATERIALS:

- CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
- CONCRETE 28 DAY STRENGTH 5,000 PSI.
- RELEASE STRENGTH 4,000 PSI.
- UNIT WEIGHT OF SEMI-LIGHTWEIGHT CONCRETE 120 LB./CU. FT.
- PRESTRESSING STEEL SHALL BE 1/2" DIAMETER - 7 WIRE 270 K STRAND.

FABRICATION:

- GIRDERS SHALL CONFORM TO THE REQUIREMENTS OF THE ALBERTA BRIDGE BRANCH SPECIFICATION FOR THE MANUFACTURE OF PRESTRESSED CONCRETE BRIDGE UNITS.
- FORCE IN PRESTRESSING STEEL:
  INITIAL TENSIONING LOAD = 28.73 K/STRAND
  DESIGN LOAD AFTER LOSSES = 22.85 K/STRAND
- CURB TO BE CAST MONOLITHICALLY WITH GIRDER.
- ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN GIRDER AT SPACINGS AS SHOWN.
- BEND OR SHIFT REINFORCING STEEL AS REQUIRED TO CLEAR GIRDER CONNECTORS, DEFINITE ARRANGEMENT OF ANCHOR BOLT ASSEMBLIES, STIRRUP SPACING TO BE AS PLANNED.

ERECTION:

- ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH WASHERS.
- CALCULATED WEIGHT OF ONE GIRDER IS 13,760 LBS.

SUPERSEDED (1)

SUPERSEDED BY S-1202-74

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

APPROVED

Alberta HIGHWAYS AND TRANSPORT BRIDGE BRANCH

20 FT. TYPE VS-20 CURB GIRDER SEMI-LIGHTWT. CONCRETE

DESIGNED	DRAWN BY	DATE	CHECKED BY	DATE	SPANNING	LOCATION	HWY. NO.	SCALE	FILE NO.	SHEET	DRG. NO.
R.G.B.	V.G.B.	FEB./74						SHOWN			S-1202

M.P. 211