

BAR LIST : FOR UNSKEWED GIRDER							
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	102	A			1'-5	54
S 401	4	95	B			6'-2	391
S 402	4	95	STR			3'-4	212
S 403	4	53	C			8'-3	292
S 404	4	49	D			3'-0	98
E 405	4	14	STR			32'-10	307
E 401	4	4	F			3'-4	9
E 402	4	4	G			5'-4	14
E 501	5	2	E	2'-2		6'-4	13
E 502	5	2	E	3'-2		8'-3	17
C 401	4	6	STR			32'-10	132
C 501	5	82	H			5'-4	456

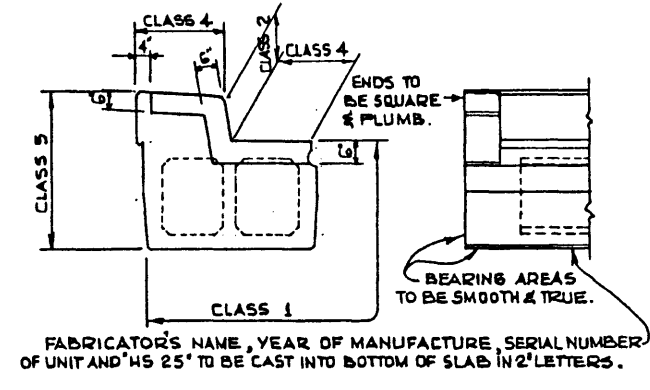
△ ASSUME 7 POSTS. △ TOTAL LBS.: 2,003
 △ GENERAL NOTES △ 1,995

- DESIGN:
- A.A.S.H.O. 1973 SPECIFICATION EXCEPT AS MODIFIED BELOW.
 - ALLOWABLE TENSION AT $\frac{1}{4}$ 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
 0.70 WHEEL LINE PER GRDB
 DEAD LOAD - GIRDER = 0.96 KPS/FT.
 WEARING SURFACE = 0.10 KPS/FT.

- MATERIALS:
- CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
 - CONCRETE IN CURB SHALL BE MADE OF STANDARD WEIGHT AGGREGATES.
 - 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 = 22.04 K/STRAND
 - CURB TO BE CAST MONOLITHICALLY WITH GIRDER.
 - ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN GIRDER AT SPACINGS AS REQUIRED.

- RECTION:
- LIFTING FORCE AT EACH HOOK SHALL NOT EXCEED 35° FROM THE VERTICAL. GIRDER SURFACE MUST BE LEVEL AT ALL TIMES.
 - CALCULATED WEIGHT OF ONE GIRDER IS 57,056 LBS. △



FABRICATOR'S NAME, YEAR OF MANUFACTURE, SERIAL NUMBER OF UNIT AND HS 25' TO BE CAST INTO BOTTOM OF SLAB IN 2" LETTERS.

NO.	DATE	DESCRIPTION	BY
1	APR. 9 1975	C 501 SPACING CLARIFIED; S 404 SPACING.	D.K.D.
2	APR. 9 1975	"A" SECTION MOVED	R.G.Q.
3	JAN. 9 1975	GENERAL REVISION	J.C.V.

APPROVED

 R.G.Q.
 CHIEF BRIDGE ENGINEER
 DATE: JAN 8 1976

DESIGNED R.G.Q. D.K.D.		DRAWN BY P.SZ.		DATE NOV. 74		CHECKED BY		DATE		STREAM		LOCATION		HWY. NO.		SCALE SHOWN		FILE NO.		SHEET OF		DWG. NO. S-1232	
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