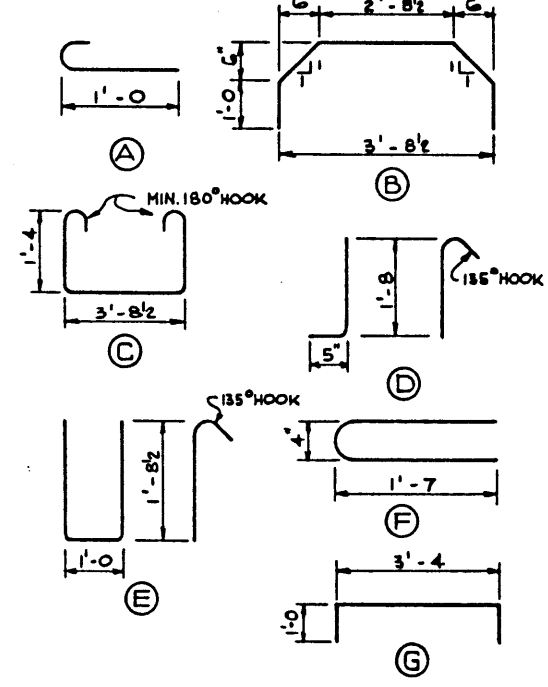


**BAR TYPES N.T.S.**  
(ALL BAR DIMENSIONS ARE OUT TO OUT)



BAR LIST: FOR UNSKEWED GIRDER							
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	140	A			1'-5	75
S 401	4	65	B			6'-2	288
S 402	4	65	STR			3'-4	145
S 403	4	37	C			7'-5	179
S 404	4	33	D			2'-6	55
S 405	4	14	STR			22'-10	214
E 501	5	4	E			5'-4	22
E 401	4	4	F			3'-4	9
E 402	4	4	G			5'-4	14

TOTAL LBS: 976  
981

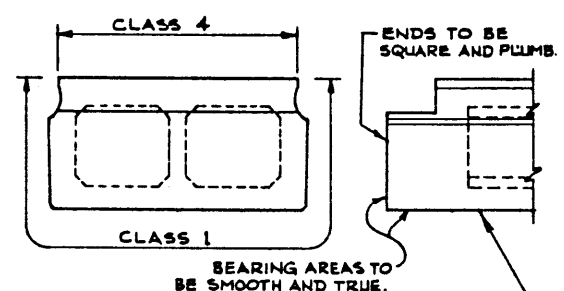
**GENERAL NOTES**

- DESIGN:**
- A.A.S.H.O. 1973 SPECIFICATION EXCEPT AS MODIFIED BELOW.
  - ALLOWABLE TENSION AT 1/2 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-20-44
  - 0.70 WHEEL LINE PER GIRDER
  - DEAD LOAD - GIRDER - 0.56 KPS/FT.
  - WEARING SURFACE - 0.10 KPS/FT.

- MATERIALS:**
- CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
  - RELEASE STRENGTH 5000 PSI.
  - UNIT WEIGHT OF SEMI-LIGHTWEIGHT CONCRETE 130 LB./CU. FT.
  - PRESSURING 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 PRESSURING STEEL: INITIAL TENSIONING LOAD = 28.73 K/STRAND DESIGN LOAD AFTER LOSSES = 21.07 K/STRAND

- SECTION:**
- 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 25,060 LBS.



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

**GIRDER FINISHES**  
34' x 1'-0"

DESIGNED R.G.R. D.K.D.		DRAWN BY V.G.B.		DATE 18 OCT '75		CHECKED BY		DATE JAN 8 1976		APPROVED  CHIEF BRIDGE ENGINEER		Alberta HIGHWAYS AND TRANSPORT BRIDGE BRANCH	
REVISIONS NO. DATE DESCRIPTION BY										45 FT. TYPE RD-24 INTERIOR GIRDER SEMI-LIGHTWT. CONCRETE			
WHY. NO.	SCALE	FILE NO.	SHEET	DWG. NO.									
	SHOWN			5-1217									