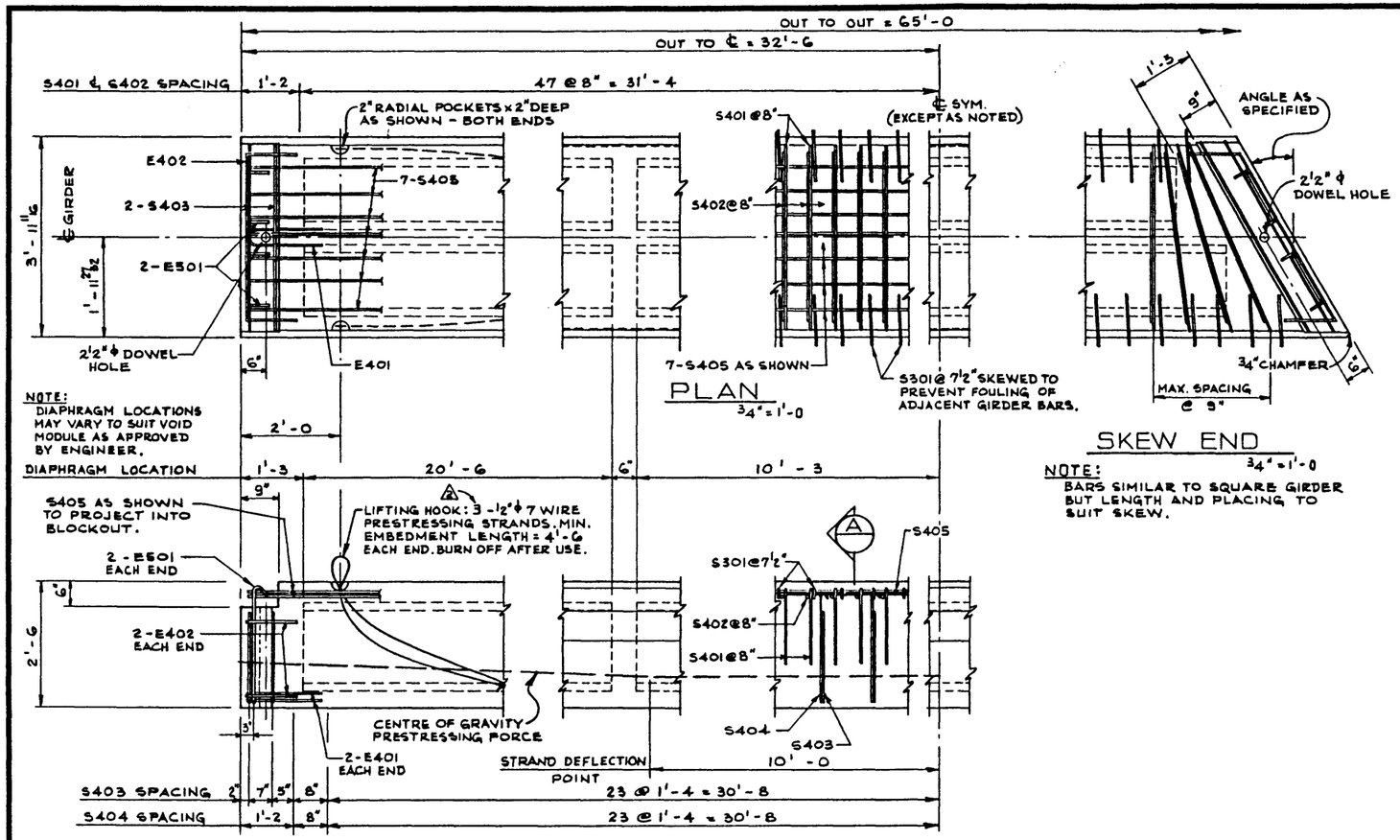
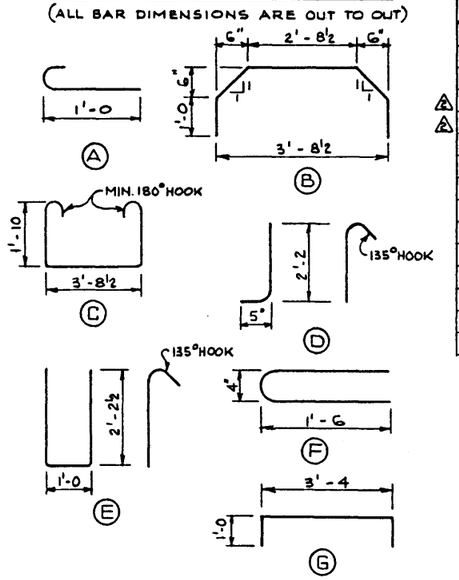


BAR TYPES N.T.S.

(ALL BAR DIMENSIONS ARE OUT TO OUT)



BAR LIST: FOR UNSKEWED GIRDER

MARK	SIZE	NO.	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	204	A			1'-5	109
S 401	4	95	B			6'-2	391
S 402	4	95	STR.			3'-4	212
△2 S 403	4	53	C			8'-3	292
△2 S 404	4	49	D			3'-0	98
S 405	4	14	STR.			32'-10	307
E 501	5	4	E			6'-4	26
E 401	4	4	F			3'-4	9
E 402	4	4	G			5'-4	14

TOTAL LBS: 1,473

△2 1,458

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
  0.70 WHEEL LINE PER GIRDER
  DEAD LOAD - GIRDER = 0.640 KIPS/FT.
  WEARING SURFACE = 0.100 KIPS/FT.

MATERIALS:

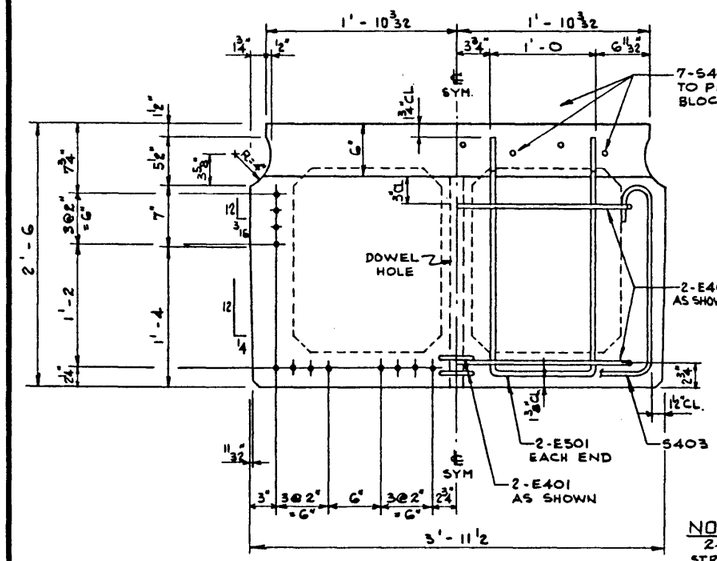
- CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
- CONCRETE 28 DAY STRENGTH 5,000 PSI.
- RELEASE STRENGTH 4,000 PSI.
- UNIT WEIGHT OF SEMI-LIGHTWEIGHT CONCRETE 120 LB./CU. FT.
- PRESTRESSING STEEL SHALL BE 1/2" DIAMETER - 7 WIRE 270 K STRAND.

FABRICATION:

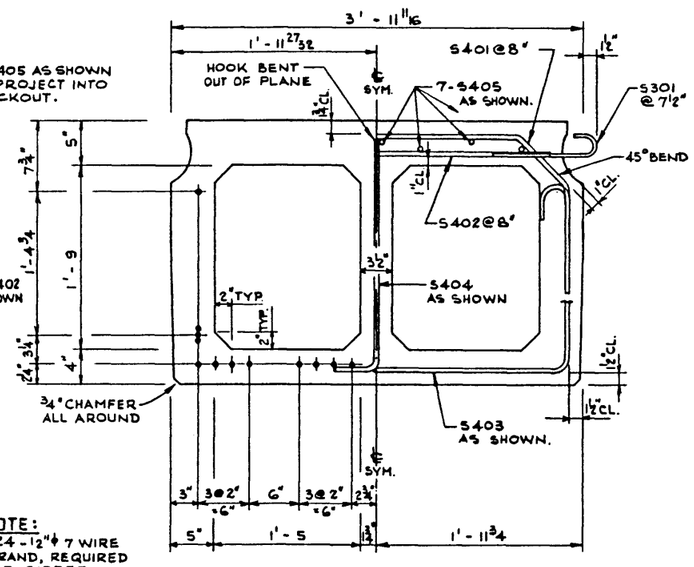
- GIRDERS SHALL CONFORM TO THE REQUIREMENTS OF THE ALBERTA BRIDGE BRANCH SPECIFICATION FOR THE MANUFACTURE OF PRESTRESSED CONCRETE BRIDGE UNITS.
- FORCE IN PRESTRESSING STEEL:
  INITIAL TENSIONING LOAD = 28.75 K/STRAND
  DESIGN LOAD AFTER LOSSES = 20.06 K/STRAND

ERECTION:

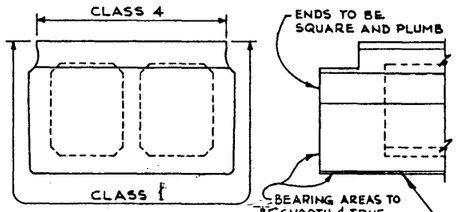
- LIFTING FORCE AT EACH HOOK SHALL NOT EXCEED 35° FROM THE VERTICAL. GIRDER SURFACE MUST BE LEVEL AT ALL TIMES.
- CALCULATED WEIGHT OF ONE GIRDER IS 41,450 LBS. △2



END VIEW
1½" = 1'-0



A SECTION
1½" = 1'-0



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
3/4" = 1'-0

(1) (2)

NO.	DATE	DESCRIPTION	BY
△			
△			
△	18 DEC 75	BAR LIST; GIRDER WT.; LIFTING HOOKS.	D.K.D.
△	25-3-74	REDRAWN FROM S-1231	R.G.Q.

REVISIONS

APPROVED
CHIEF BRIDGE ENGINEER
DATE JAN 8 1976

PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS AND TRANSPORT
BRIDGE BRANCH

65FT. TYPE RD-30 INTERIOR GIRDER SEMI-LIGHTWT. CONCRETE

DESIGNED	DRAWN BY	DATE	CHECKED BY	DATE	STREAM	LOCATION	HWY. NO.	SCALE	FILE NO.	SHEET	DWG. NO.
R.G.Q. D.K.D.	V.G.B.	MAR. 25/74						SHOWN		..... OF	S-1231-74

M.P. 214