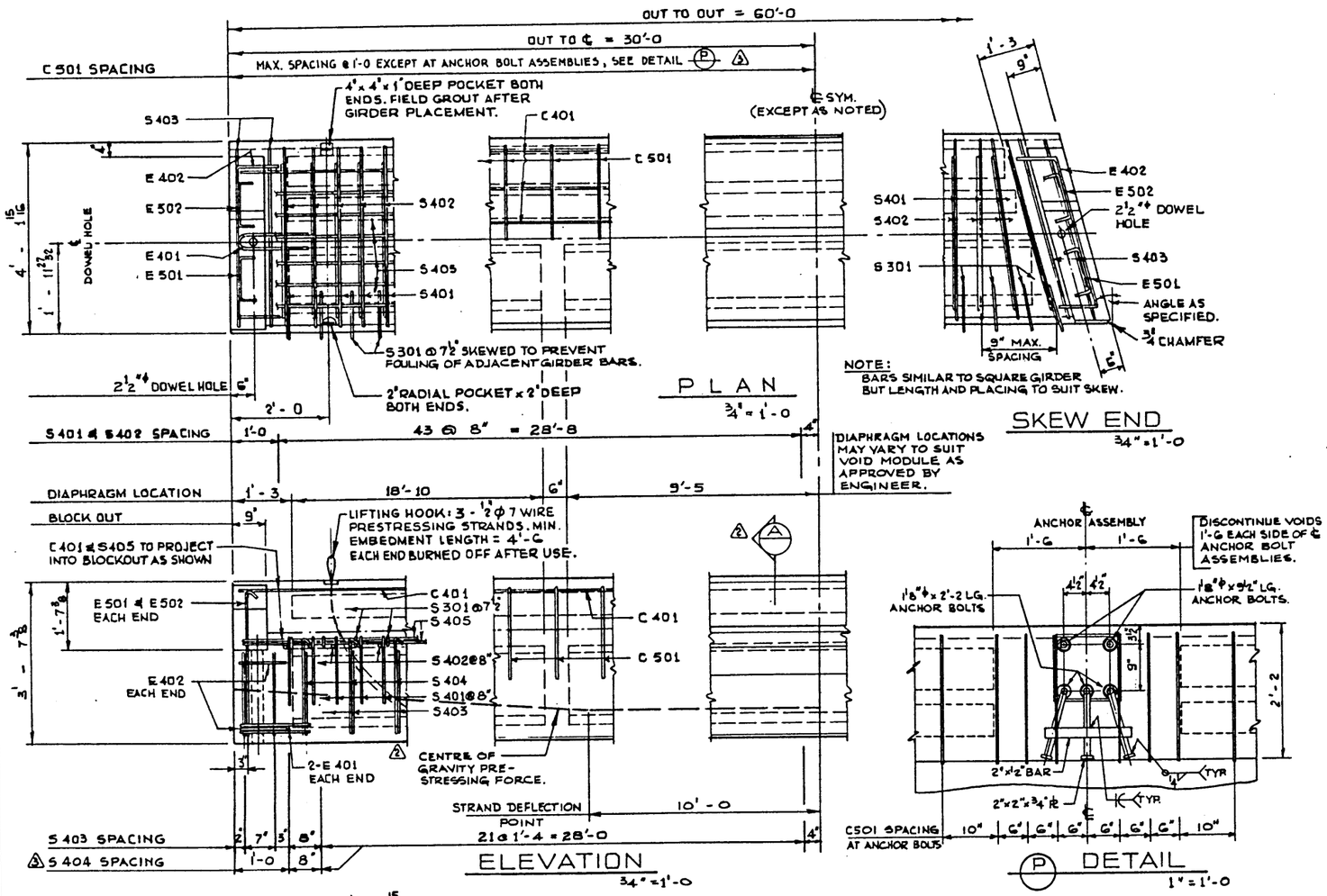
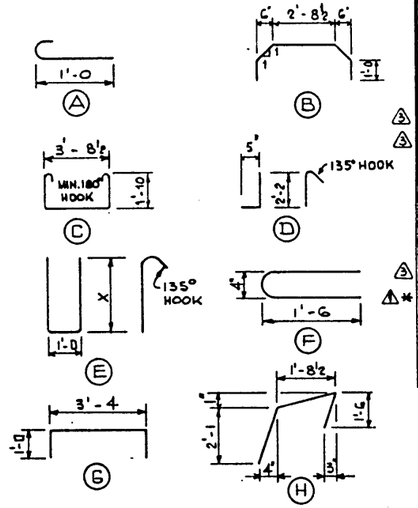


BAR TYPES N.T.S.

(ALL BAR DIMENSIONS ARE OUT TO OUT.)



BAR LIST: FOR UNSKEWED GIRDER

MARK	SIZE	NO.	TYPE	X	Y	LENGTH	WEIGHT
S 301	3	94	A			1' - 5	50
S 401	4	88	B			6' - 2	363
S 402	4	88	STR			3' - 4	196
S 403	4	50	C			8' - 3	276
3 S 404	4	46	D			3' - 0	92
3 S 405	4	14	STR.			30' - 4	284
E 401	4	4	F			3' - 4	9
E 402	4	4	G			5' - 4	14
E 501	5	2	E	2' - 2½		6' - 4	13
E 502	5	2	E	3' - 2		8' - 3	17
3 C 401	4	6	STR.			30' - 4	122
1 * C 501	5	74	H			5' - 4	412

* ASSUMED 6 POSTS

TOTAL LBS.: 1860 1
3 1848

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 = 0.96 KIPS/FT.
  WEARING SURFACE = 0.10 KIPS/FT.

MATERIALS:

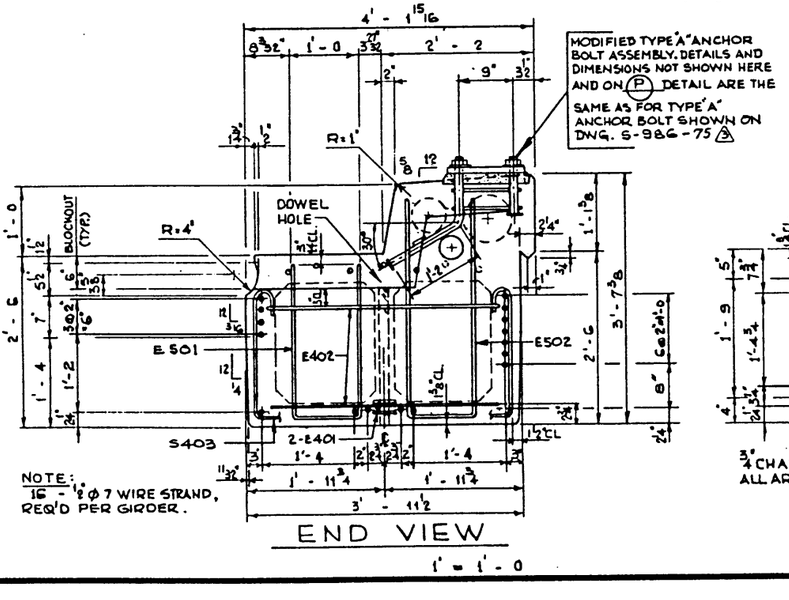
- CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
- CONCRETE IN CURB SHALL BE MADE OF STANDARD WEIGHT AGGREGATES.
- CONCRETE 28 DAY STRENGTH 5000 PSI.
- RELEASE STRENGTH 4000 PSI.
- UNIT WEIGHT OF SEMI-LIGHTWEIGHT CONCRETE 120 LB./CU. FT.
- PRESTRESSING STEEL SHALL BE 1/2" DIAMETER - 7 WIRE 270 K STRAND.

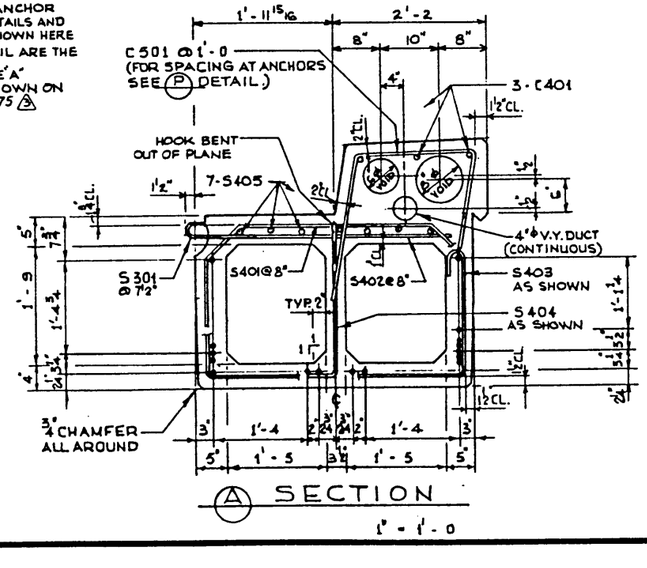
FABRICATION:

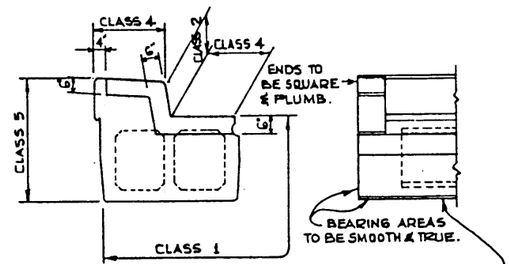
- GIRDERS SHALL CONFORM TO THE REQUIREMENTS OF THE ALBERTA BRIDGE BRANCH SPECIFICATION FOR THE MANUFACTURE OF PRESTRESSED CONCRETE BRIDGE UNITS.
- FORCE IN PRESTRESSING STEEL:
  INITIAL TENSIONING LOAD = 28.75 K/STRAND
  DESIGN LOAD AFTER LOSSES = 22.40 K/STRAND
- CURB TO BE CAST MONOLITHICALLY WITH GIRDER.
- ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN GIRDER AT SPACINGS AS REQUIRED.

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 52,820 LBS.







GIRDER FINISHES

½" = 1'-0

NO.	DATE	DESCRIPTION	BY
3			
2	18 DEC. 1975	REF. DWG. S-986-74 TO -75, S404	D.K.D.
		SPACING, C501 SPACING CLARIFIED, BAR LIST.	
1	APR. 9. 1975	"A" SECTION MOVED.	R.G.Q.
0	MAR. 27. 1975	BAR LIST CHANGED	R.W.L.

REVISIONS

APPROVED
CHIEF BRIDGE ENGINEER
DATE JAN 8 1976

Alberta HIGHWAYS AND TRANSPORT BRIDGE BRANCH

60 FT. TYPE RD-30
CURB 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.	P. SZ.	SEPT. 1974						SHOWN		..... OF	S-1230

M.P. 215