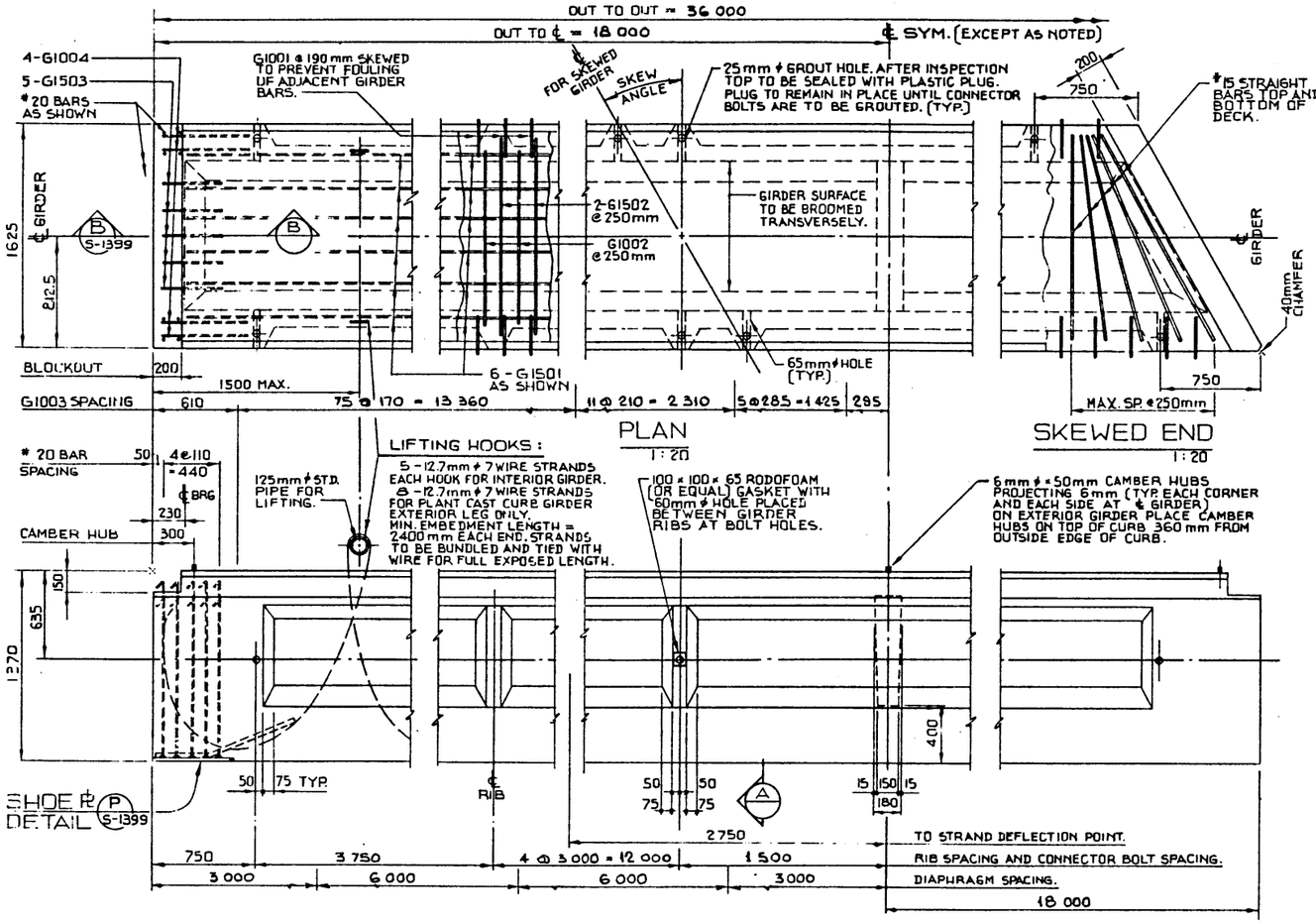
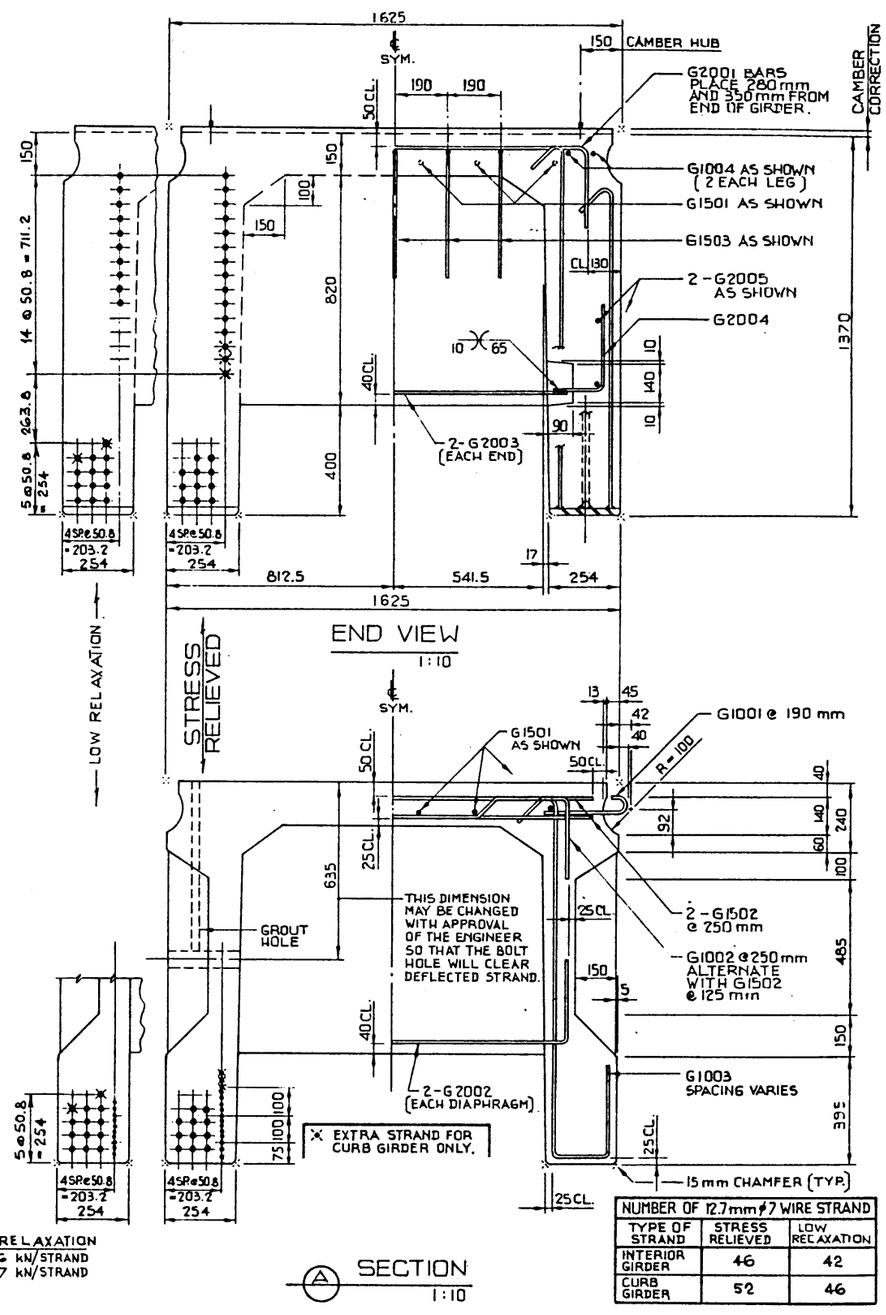


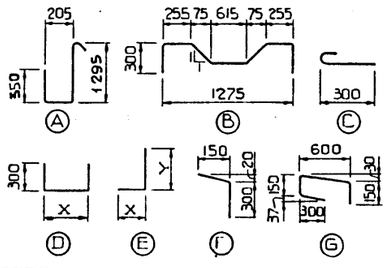


BAR LIST : FOR UNSKEWED GIRDER.

MARK	SIZE	NO.	TYPE	X	Y	LENGTH	MASS
G1001	10	374	C			430	126
G1002	10	143	B			1940	218
G1003	10	370	A			1950	566
G1004	10	8	STR.			600	4
G1501	15	24	STR.			9230	348
G1502	15	286	STR.			1435	644
G1503	15	10	E	450	450	900	14
G2001	20	4	D	1365		1965	19
G2002	20	14	D	1275		1875	62
G2003	20	4	STR.			1270	12
G2004	20	8	E	200	300	500	9
G2005	20	8	STR.			600	11
						TOTAL kg :	2033
* C1501	15	143	G			1200	269
** C1502	15	30	STR.			5900	278
* C61501	15	143	E	600	600	1200	269
* C61502	15	143	F			450	101
C61503	15	4	STR.			9230	58
						TOTAL kg :	975

BAR TYPES :

(ALL BAR DIMENSIONS ARE OUT TO OUT)



NOTES :

* QUANTITY BASED ON 11 ANCHOR BOLT ASSEMBLIES. SEE BRIDGERAIL LAYOUT FOR EACH BRIDGE FOR ACTUAL NUMBER OF ANCHOR BOLT ASSY.

** LENGTH BASED ON 6 000 JOINT SPACING. SEE CURB JOINT LAYOUT FOR EACH BRIDGE FOR ACTUAL JOINT SPACING.

DESIGN DATA :

- LOADING :
  - LIVE LOAD – BRIDGE BRANCH MS-23
  - – 0.90 WHEEL LINE PER GIRDER.
  - DEAD LOAD – GIRDER = 1.46 t/m
  - – WEARING SURFACE AND SHEAR KEYS = 0.30 t/m
- FORCE IN PRESTRESSING STEEL :

	STRESS-RELIEVED	LOW RELAXATION
INITIAL TENSIONING LOAD :	128.6 kN/STRAND	128.6 kN/STRAND
DESIGN LOAD AFTER LOSSES : (INTERIOR GIRDER)	91.3 kN/STRAND	100.7 kN/STRAND

- CONCRETE :

	STRESS REL.	LOW RELAX.
INTR. 28 DAY STRENGTH	35.0	35.0 MPa
RELEASE STRENGTH	28.0	28.0 MPa
CURB 28 DAY STRENGTH	35.0	35.0 MPa
RELEASE STRENGTH	29.0	28.0 MPa

- ESTIMATED CAMBER OF BOTTOM OF INTERIOR GIRDER LEG AT TIME OF RELEASE = 58 mm (STRESS RELIEVED STRANDS)
- THEORETICAL MASS OF ONE GIRDER IS 52.6 t (69.7 t WITH CURB)

NUMBER OF 12.7mm ϕ 7 WIRE STRAND		
TYPE OF STRAND	STRESS RELIEVED	LOW RELAXATION
INTERIOR GIRDER	46	42
CURB GIRDER	52	46

DIMENSIONS ARE GIVEN IN mm / MASS IN kg

WORK THIS DRAWING IN CONJUNCTION WITH DRAWING NO. S-1399

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

APPROVED

CHIEF BRIDGE ENGINEER

DATE

Alberta TRANSPORTATION BRIDGE BRANCH METRIC

PRESTRESSED CONCRETE 36 m TYPE FM-1370 GIRDER

DESIGNED	DRAWN BY	DATE	CHECKED BY	DATE	STREAM	LOCATION	HWY. NO.	SCALE	FILE NO	SHEET	DWG NO.
A. WAHEED	P. SZOTS	78 03 01	[illegible]	June 22/78				SHOWN		OF	S-1388

M.P. 248 DESIGN : A.V.I. DRAWN : M.M.F. 77 12 23