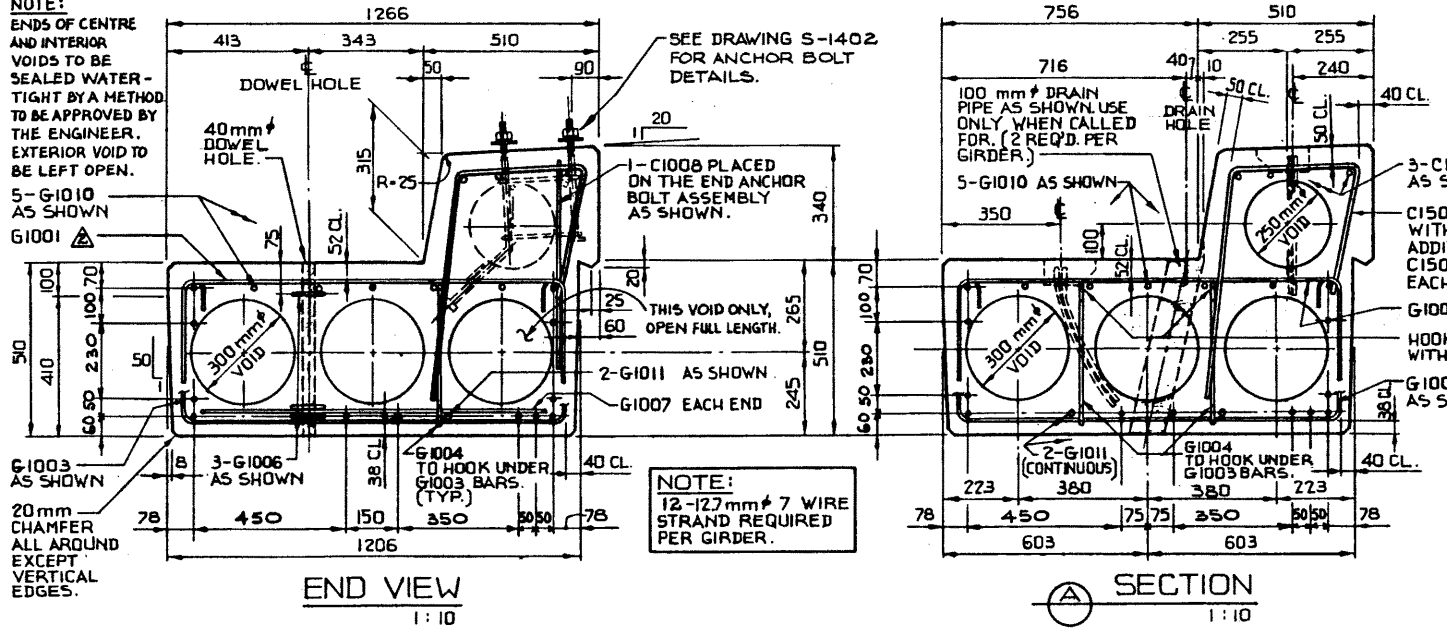
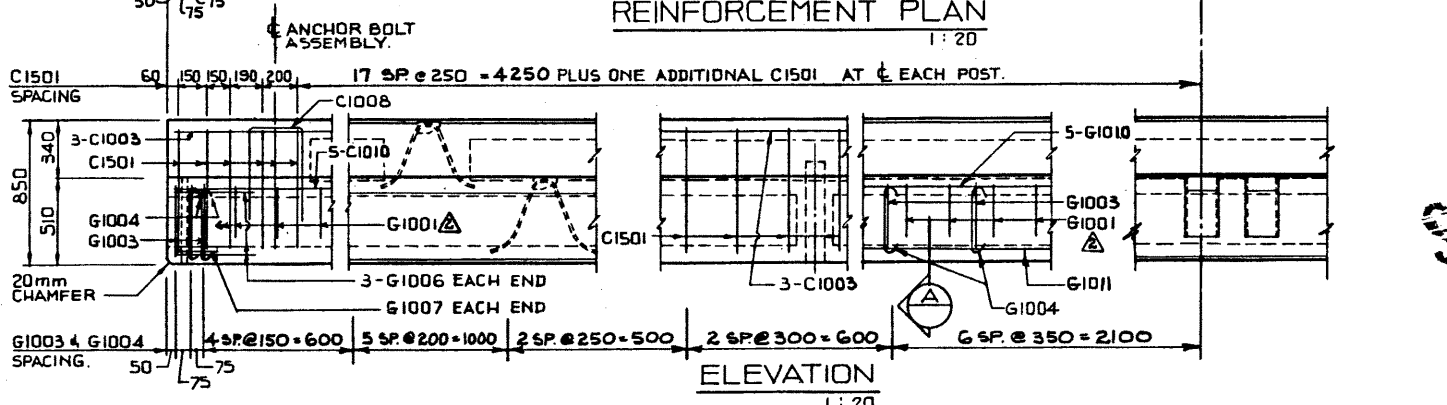
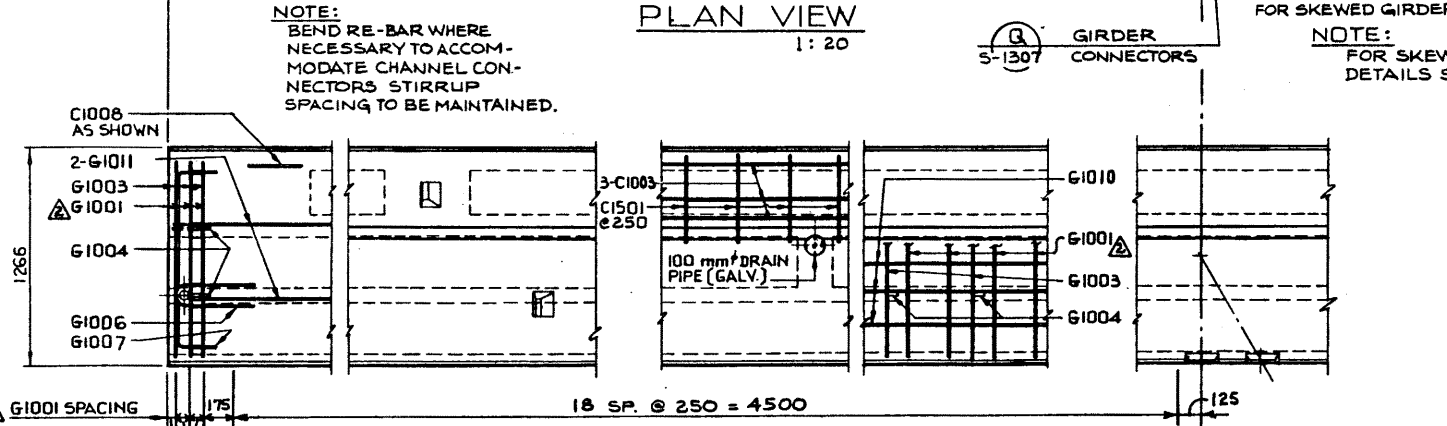
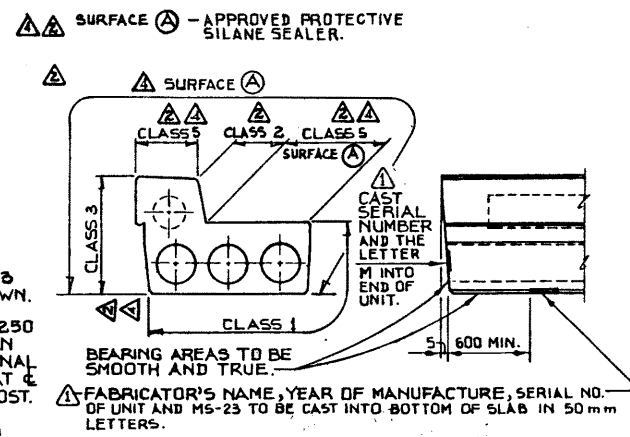


BAR LIST: FOR SQUARE GIRDER								
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	MASS	
G1001	10	44	A	1125	300	1725	60	
G1010	10	5	STR.			9900	39	
G1003	10	43	B			2220	75	
G1004	10	84	C			620	41	
G1011	10	2	STR.			9800	15	
G1006	10	6	D			1020	5	
G1007	10	2	A	1000	300	1600	3	
							TOTAL kg:	367
								373



SUPERSEDED

84-1308-15
85-03-07
REV. 1



GIRDER FINISHES (BY FABRICATOR) 1:25

WORK THIS DWG. IN CONJUNCTION WITH DWG. NO. S-1307 & S-1309

NO.	DATE	DESCRIPTION	BY
88-09-04		SUPERSEDED BY S-1308-08	DJR
87-10-15		GIRDER FINISHES	TJS
85-10-23		GIRDER FINISHES BY FABRICATOR	JCY
79-03-20		4-G1001 ADDED & GIRDER FINISHES R.G.Q.	R.G.Q.
78-07-20		GIRDER MARKINGS.	R.G.Q.

DESIGNED: R.W.L. DRAWN BY: V.G.B. DATE: 78 02 15 CHECKED BY: DATE: STREAM: LOCATION: HWY NO: SCALE: FILE NO: SHEET: 5-1308

GENERAL NOTES:

DESIGN:
A.A.S.H.T.O. 1973 SPECIFICATIONS, PLUS INTERIMS TO 1976 EXCEPT AS MODIFIED BELOW:
- ALLOWABLE TENSION AT MIDSPAN IS 80% OF MODULUS OF RUPTURE.
- NO TENSION ALLOWED IN DECK SURFACE.
- WEB REINFORCEMENT - ACCORDING TO A.C.I. 318-71, BUT NOT LESS THAN A.A.S.H.T.O. MINIMUM.
- CAPACITY REDUCTION FACTORS ACCORDING TO C.S.A. S6-1974

LOADING:
LIVE LOAD - BRIDGE BRANCH MS-23
ONE WHEEL LINE PER GIRDER.
DEAD LOAD - GIRDER WEARING SURFACE & BRIDGERAIL = 0.110 t/m

MATERIALS:

- CONCRETE IN GIRDER SHALL BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND SAND FINES.
- 28 DAY CONCRETE STRENGTH - 35 MPa
- RELEASE STRENGTH - 28 MPa
- UNIT WEIGHT OF SEMI-LIGHT WEIGHT CONCRETE 1920 kg/m³
- PRESTRESSING STEEL SHALL BE 12.7mm ϕ 7 WIRE STRESS-RELIEVED STRAND ($f'_s = 1860$ MPa). 12.7mm ϕ 7 WIRE LOW RELAX STRAND ($f'_s = 1860$ MPa) MAY BE SUBSTITUTED FOR STRESS-RELIEVED STRAND ON A ONE FOR ONE BASIS AT THE SAME INITIAL STRESS. THE ENGINEER SHALL BE NOTIFIED IF THIS SUBSTITUTION IS MADE.

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 = 128.6 kN/STRAND
DESIGN LOAD AFTER LOSSES = 104.8 kN/STRAND
- CURB TO BE CAST MONOLITHICALLY WITH GIRDER.
- ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN GIRDER AT SPACINGS SHOWN ON DWG. S-1309.
- ALL GALVANIZING SHALL CONFORM TO A.S.T.M. SPEC. A 153.
- BEND OR SHIFT REINFORCING WHERE REQUIRED TO CLEAR GIRDER CONNECTORS, LIFTING HOOK AND ANCHOR BOLT ASSEMBLIES. STIRRUP SPACING IS TO BE MAINTAINED.

ERECTION:

- ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH WASHERS.
- CALCULATED MASS OF GIRDER = 10.56 t

DIMENSIONS ARE GIVEN IN mm

Alberta TRANSPORTATION BRIDGE BRANCH METRIC

PRESTRESSED CONCRETE
10 m TYPE SM-510
CURB GIRDER

APPROVED: [Signature] CHIEF BRIDGE ENGINEER
DATE: MAR 23/78