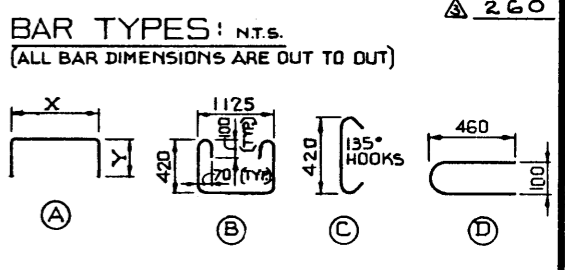
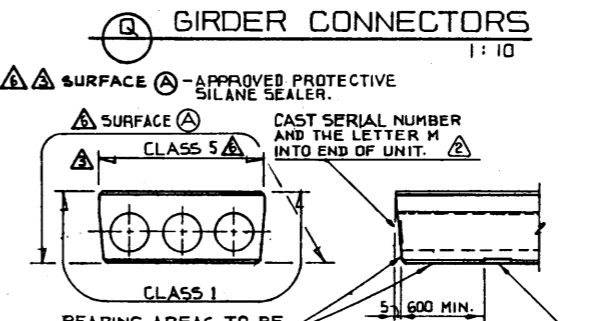
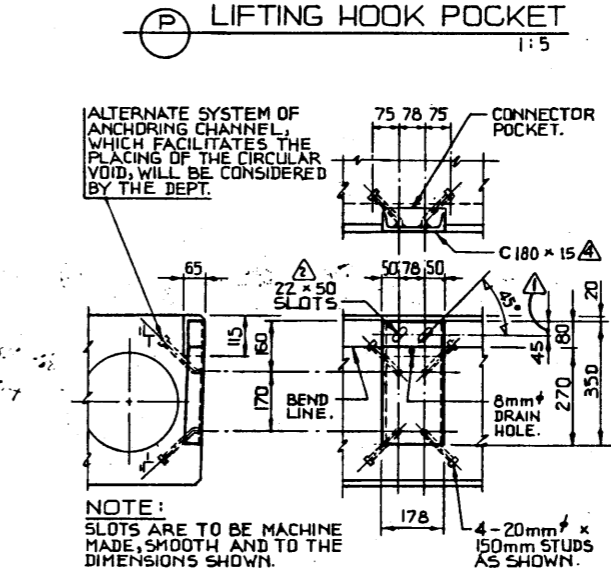
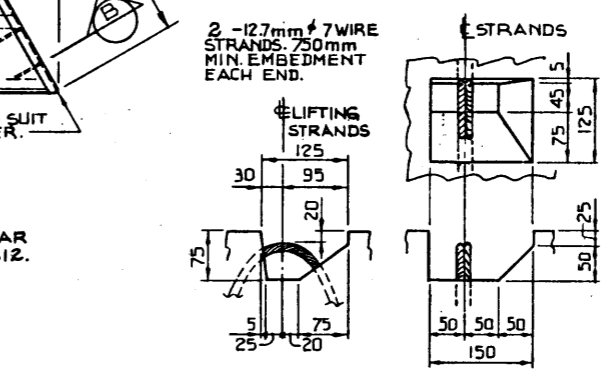
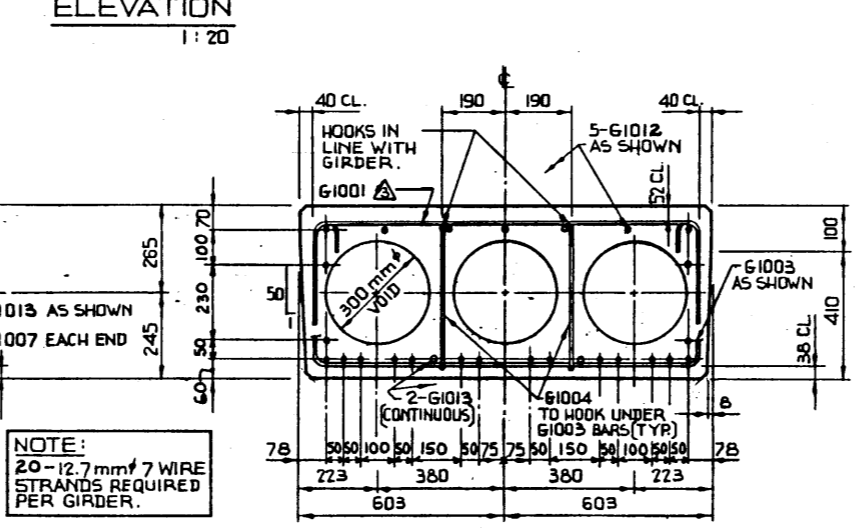
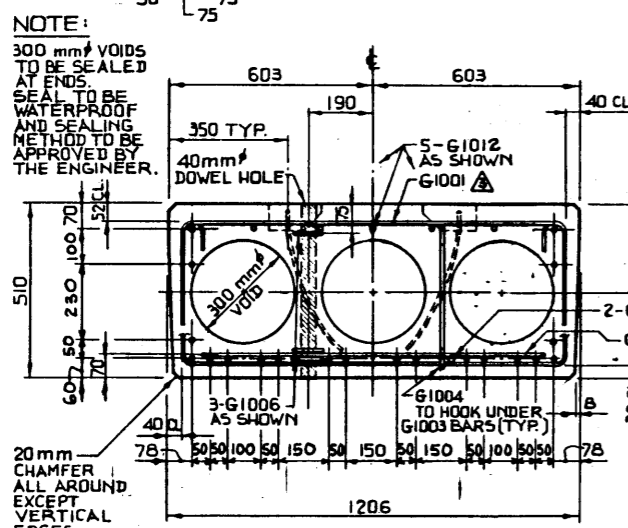
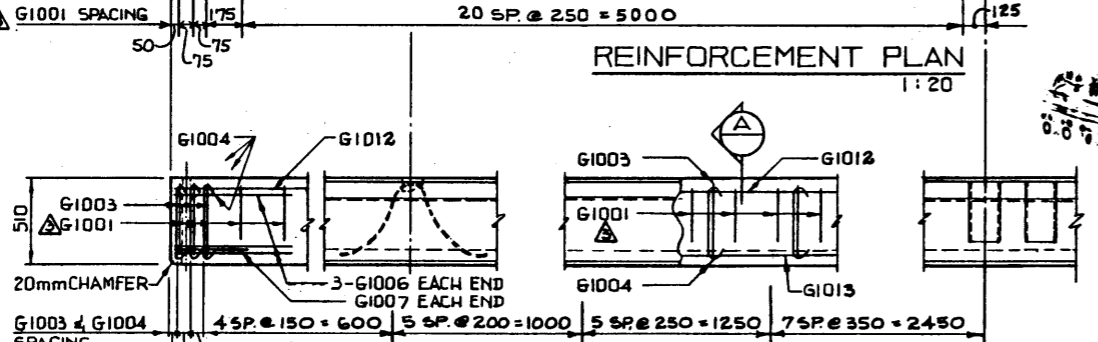
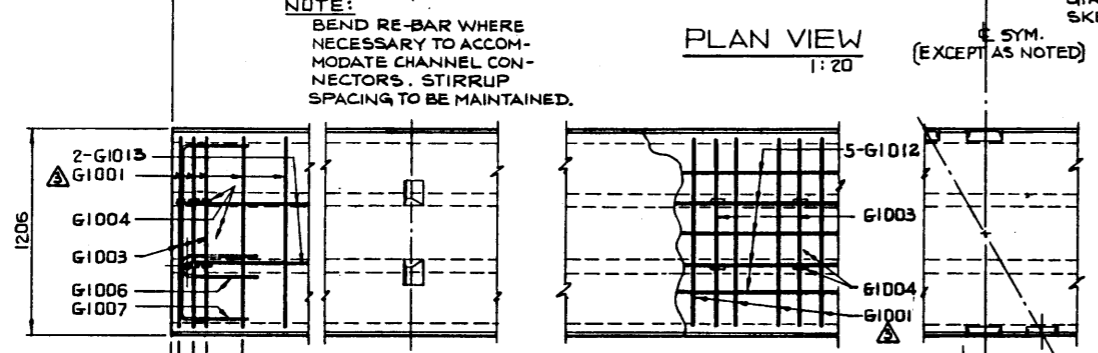


BAR LIST: FOR SQUARE GIRDER							
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	MASS
G1001	10	48	A	1125	300	1725	65
G1012	10	5	STR.			10 900	43
G1003	10	47	B			2220	82
G1004	10	92	C			620	45
G1013	10	2	STR.			10 800	17
G1006	10	6	D			1020	5
G1007	10	2	A	1000	300	1600	3

TOTAL kg: 255



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. 56-1974.

LOADING:

LIVE LOAD - BRIDGE BRANCH MS-23
ONE WHEEL LINE PER GIRDER.

DEAD LOAD - GIRDER = 0.780 t/m
WEARING SURFACE = 0.150 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 #7 WIRE STRESS-RELIEVED STRAND (f_s = 1860 MPa). 12.7mm #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 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 = 96.1 kN/STRAND.
- ALL GALVANIZING SHALL CONFORM TO A.S.T.M. SPEC. A 153.
- BEND OR SHIFT REINFORCING WHERE REQUIRED TO CLEAR GIRDER CONNECTORS AND LIFTING HOOK ASSEMBLIES. STIRRUP SPACING IS TO BE MAINTAINED.

ERECTION:

- ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH WASHERS.
- CALCULATED MASS OF ONE SIDE IS 5.37 t/m

DIMENSIONS ARE GIVEN IN mm

GIRDER FINISHES (BY FABRICATOR) 1:25

WORK THIS DWG. IN CONJUNCTION WITH DWG. NO. S-1311 & S-1312

NO.	DATE	DESCRIPTION	BY
85-10-23		GIRDER FINISHES BY FABRICATOR	JCY
84-01-31		CONNECTOR CHANNEL DESIGNATION	T.D.M.
79-03-20		4-G1001 ADDED GIRDER FINISHES	R.G.Q.
78-07-20		CONNECTOR SLOTS & GIRDER MARKINGS	R.G.Q.
78-05-11		DIMENSION ADDED	R.W.L.

APPROVED: *Deitman* CHIEF BRIDGE ENGINEER

DATE: MAR 23/78

DESIGNED	DRAWN BY	DATE	CHECKED BY	DATE	STREAM	LOCATION	HWY. NO.	SCALE	FILE NO.	SHEET	DWG NO.
R.W.L.	V.G.B.	78 02 15									S-1310

SUPERSEDED