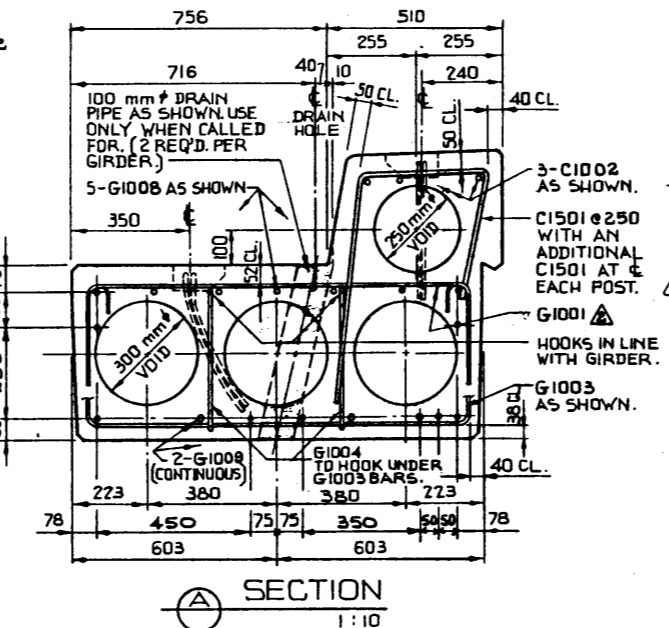
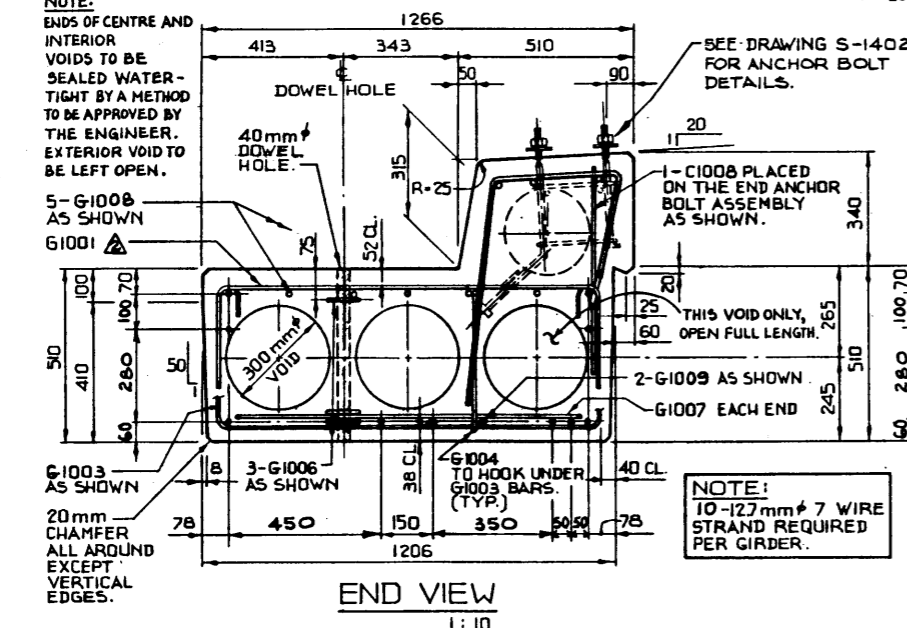
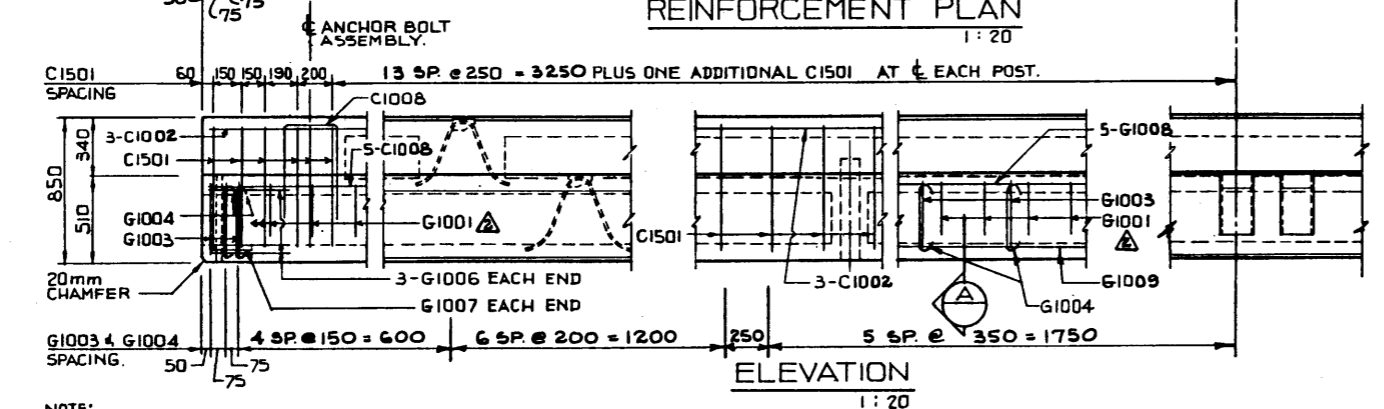
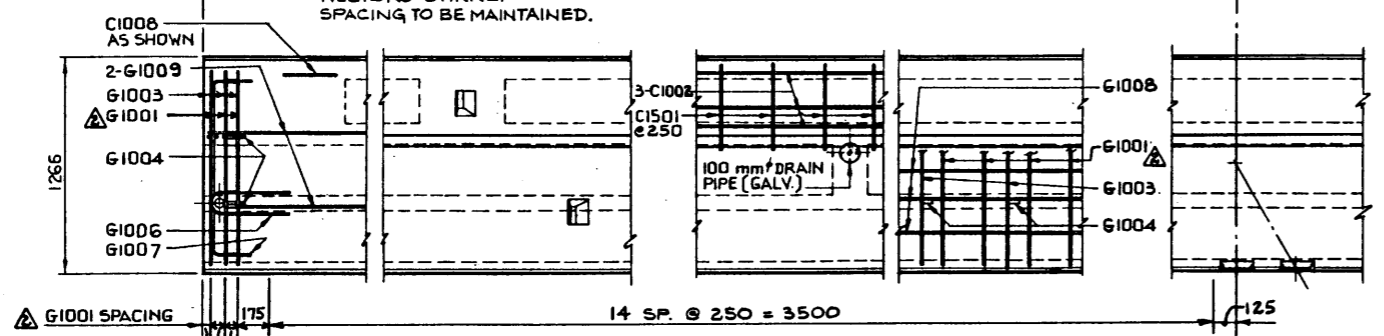


BAR LIST: FOR SQUARE GIRDER								
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	MASS	
G1001	10	36	A	1125	300	1725	49	
G1008	10	5	STR.			7900	31	
G1003	10	37	B			2220	64	
G1004	10	72	C			620	35	
G1009	10	2	STR.			7800	12	
G1006	10	6	D			1020	5	
G1007	10	2	A	1000	300	1600	3	
							TOTAL kg:	303
								309

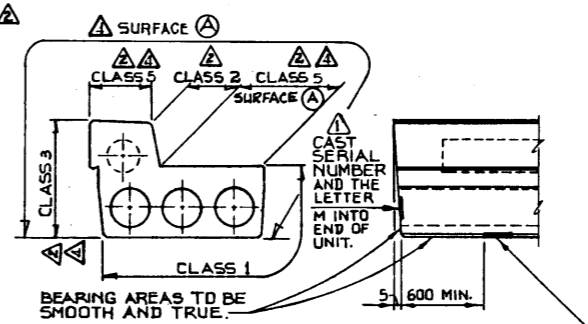


SUPERSEDED

BY S-1305-81

REV. 1

△△ SURFACE (A) - APPROVED PROTECTIVE SILANE SEALER.



GIRDER FINISHES

(BY FABRICATOR) 1:25

WORK THIS DWG. IN CONJUNCTION WITH DWG. NO. S-1304, S-1306

NO.	DATE	DESCRIPTION	BY
1	78-03-04	SUPERSEDED BY S-1305-81	D.H.G.
2	87-10-15	GIRDER FINISHES	T.J.S.
3	85-10-23	GIRDER FINISHES - BY FABRICATOR	J.C.Y.
4	79-03-20	4-G1001 ADDED & GIRDER FINISHES	R.G.Q.
5	78-07-20	GIRDER MARKINGS	R.G.Q.

APPROVED

DATE: MAR 23/80

DESIGNED: R.W.L. DRAWN BY: V.G.B. DATE: 78 02 15

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 = 1.020 t/m
 - 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_{ps} = 1860 MPa). 12.7mm ϕ 7 WIRE LOW RELAX. STRAND (f_{ps} = 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 = 105.7 kN/STRAND
- CURB TO BE CAST MONOLITHICALLY WITH GIRDER.
- ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN GIRDER AT SPACINGS SHOWN ON DWG. S-1306.
- ALL GALVANIZING SHALL CONFORM TO A.S.T.M. SPEC. A153.
- 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 CONCRETE TOPS SHALL BE FILLED WITH SAND.
- CALCULATED MASS OF ONE GIRDER IS 8.45 t.

DIMENSIONS ARE GIVEN IN mm

Alberta TRANSPORTATION BRIDGE BRANCH METRIC

PRESTRESSED CONCRETE

8 m TYPE SM-510

CURB GIRDER

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								OF	S-1305