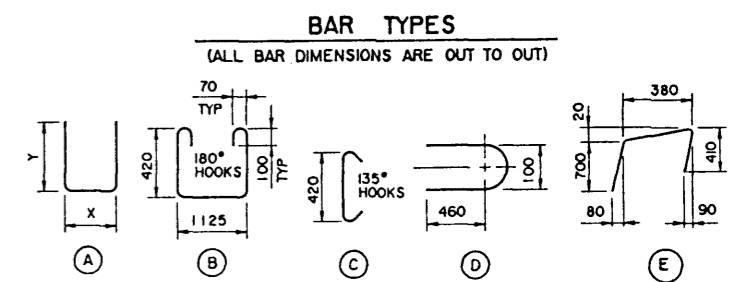
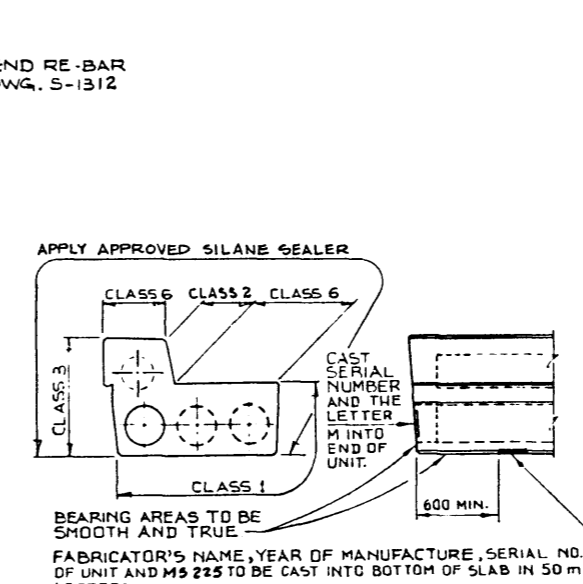
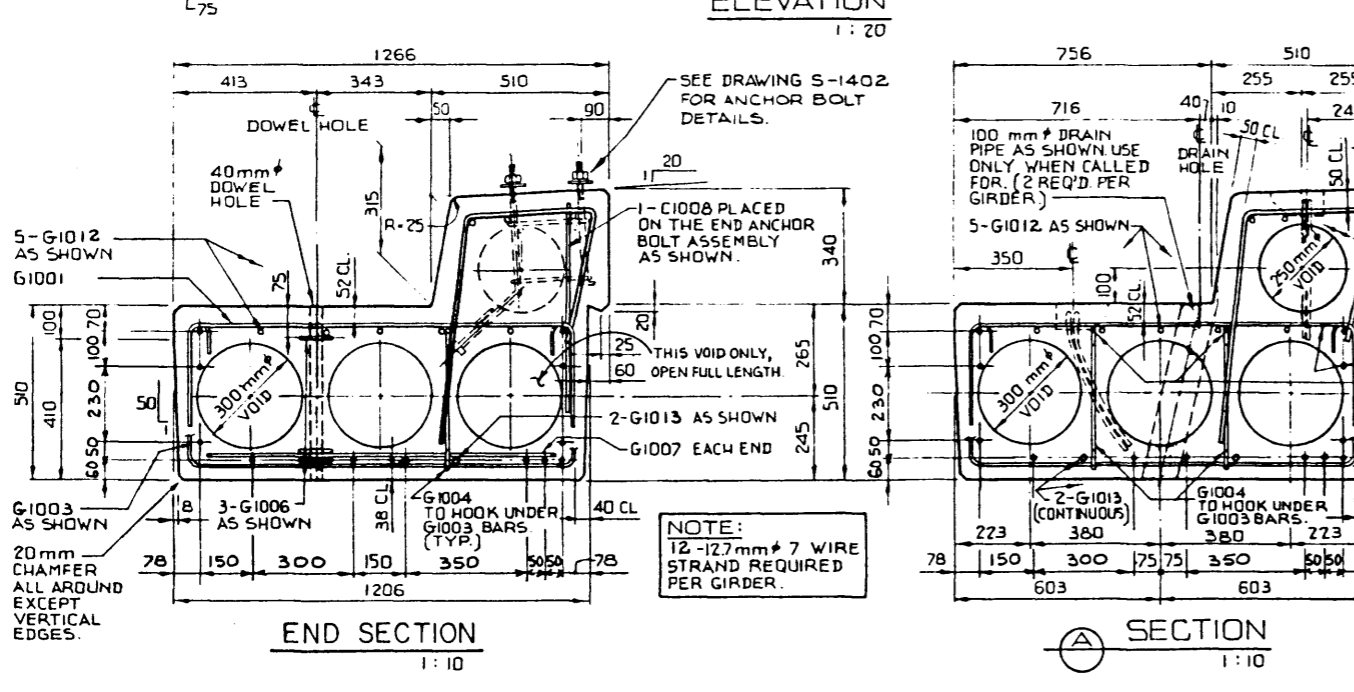
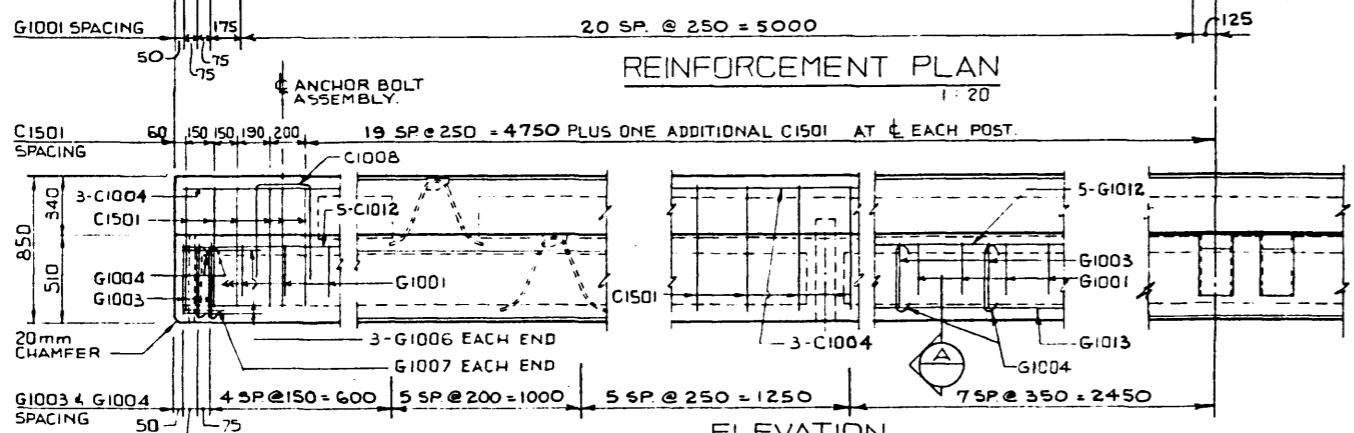
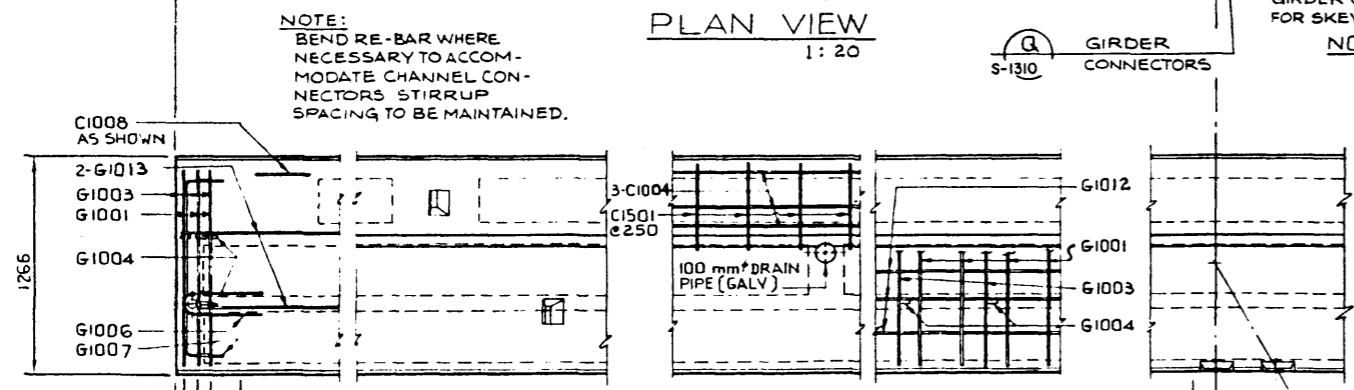


BAR LIST: FOR SQUARE GIRDER								
MARK	SIZE	NO	TYPE	X	Y	LENGTH	MASS	
C1004	10	3	STR			10 900	26	
C1008	10	2	A	310	600	1 510	2	
C1501	15	52	E			1 455	119	
G1001	10	48	A	1 125	300	1 725	65	
G1003	10	47	B			2 220	82	
G1004	10	92	C			620	45	
G1006	10	6	D			1 020	5	
G1007	10	2	A	1 000	300	1 600	3	
G1012	10	5	STR			10 900	43	
G1013	10	2	STR			10 800	17	
TOTAL							kg :	407



- GENERAL NOTES**
- ALL DRAWING REFERENCES ARE TO CURRENT DRAWINGS.
 - DESIGN**
 - AASHTO 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 ACI 318-71, BUT NOT LESS THAN AASHTO MINIMUM.
 - CAPACITY REDUCTION FACTORS ACCORDING TO CSA S6-1974.
 - LOADING:**
 - LIVE LOAD - CSA CAN3-S6-M78; MS 225-77 - ONE WHEEL LINE PER GIRDER
 - DEAD LOAD - GIRDER = 1.02 t/m
 - WEARING SURFACE AND BRIDGERAIL = 0.11 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 12.7 mm # 7 WIRE LOW RELAXATION STRAND (f_s = 1860 MPa).
 - REINFORCING STEEL SHALL BE GRADE 400 (YIELD STRENGTH OF GRADE 300 USED IN DESIGN TO ALLOW TACK WELDING OF SHEAR REINFORCEMENT)
 - FABRICATION**
 - GIRDERS SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE BRIDGE MATERIALS SPECIFICATION FOR THE MANUFACTURE OF PRESTRESSED CONCRETE BRIDGE UNITS (SPEC B190).
 - FORCE IN PRESTRESSING STEEL:
 - INITIAL TENSIONING LOAD = 129 kN/STRAND
 - DESIGN LOAD AFTER LOSSES = 114 kN/STRAND
 - CURB TO BE CAST MONOLITHICALLY WITH GIRDER.
 - ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN GIRDER AT SPACINGS SHOWN ON DRAWING S-1312-88.
 - ALL GALVANIZING SHALL CONFORM TO ASTM SPEC A153.
 - BEND OR SHIFT REINFORCING WHERE REQUIRED TO CLEAR GIRDER CONNECTORS AND LIFTING HOOK ASSEMBLIES. STIRRUP SPACING SHALL BE MAINTAINED.
 - ERECTION**
 - ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH WASHERS.
 - CALCULATED MASS OF ONE GIRDER IS 11.61 t.
- WORK THESE DRAWINGS TOGETHER : S-1310, S-1311 AND S-1312.

DESIGNED R W L		DRAWN V G B W S		DATE 88-06-21	CHECKED	DATE	STREAM	LOCATION	HIGHWAY	FILE	SHEET 2 of 3	DRAWING S-1311-88
<p>APPROVED</p> <p>EXECUTIVE DIRECTOR BRIDGE ENGINEERING</p> <p>DATE: June 29, 1988</p>												
<p>Albarta TRANSPORTATION AND UTILITIES BRIDGE ENGINEERING BRANCH</p> <p>PRESTRESSED CONCRETE 11 m TYPE SM-510 CURB GIRDER</p>												