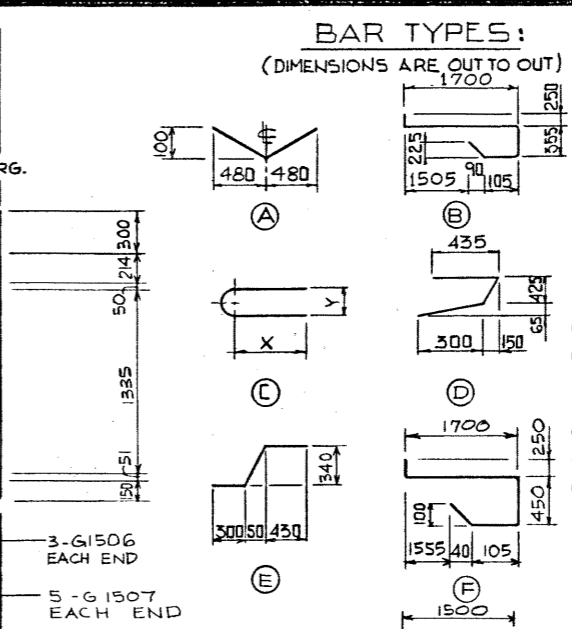
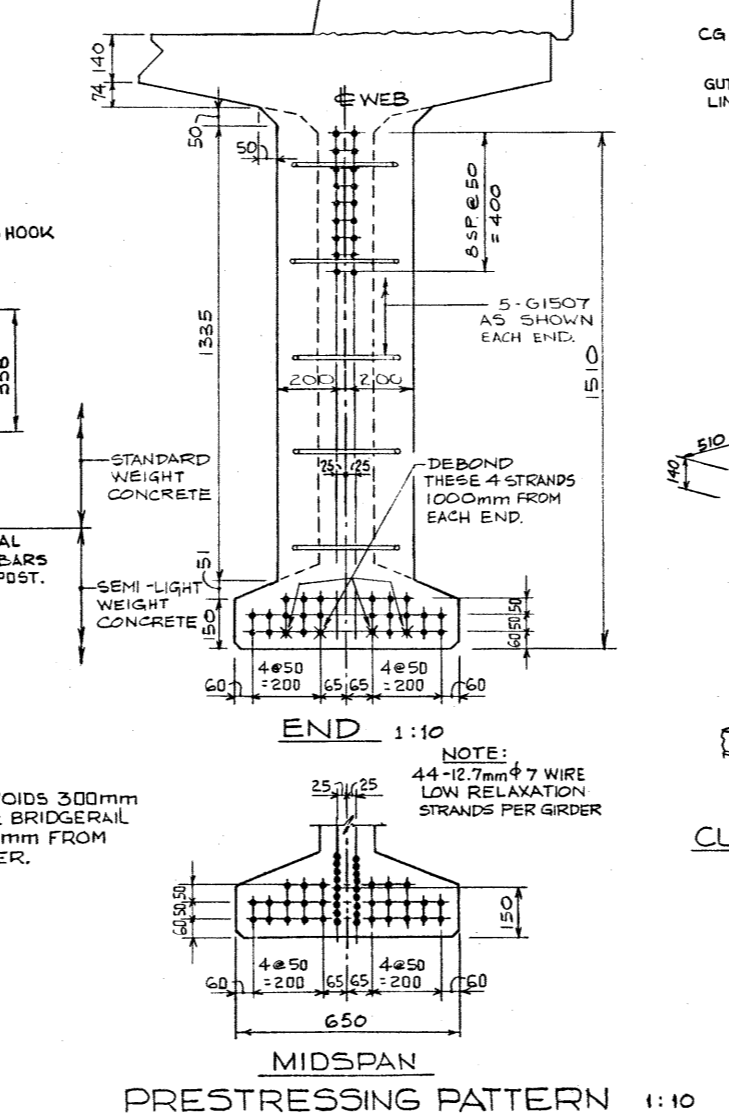
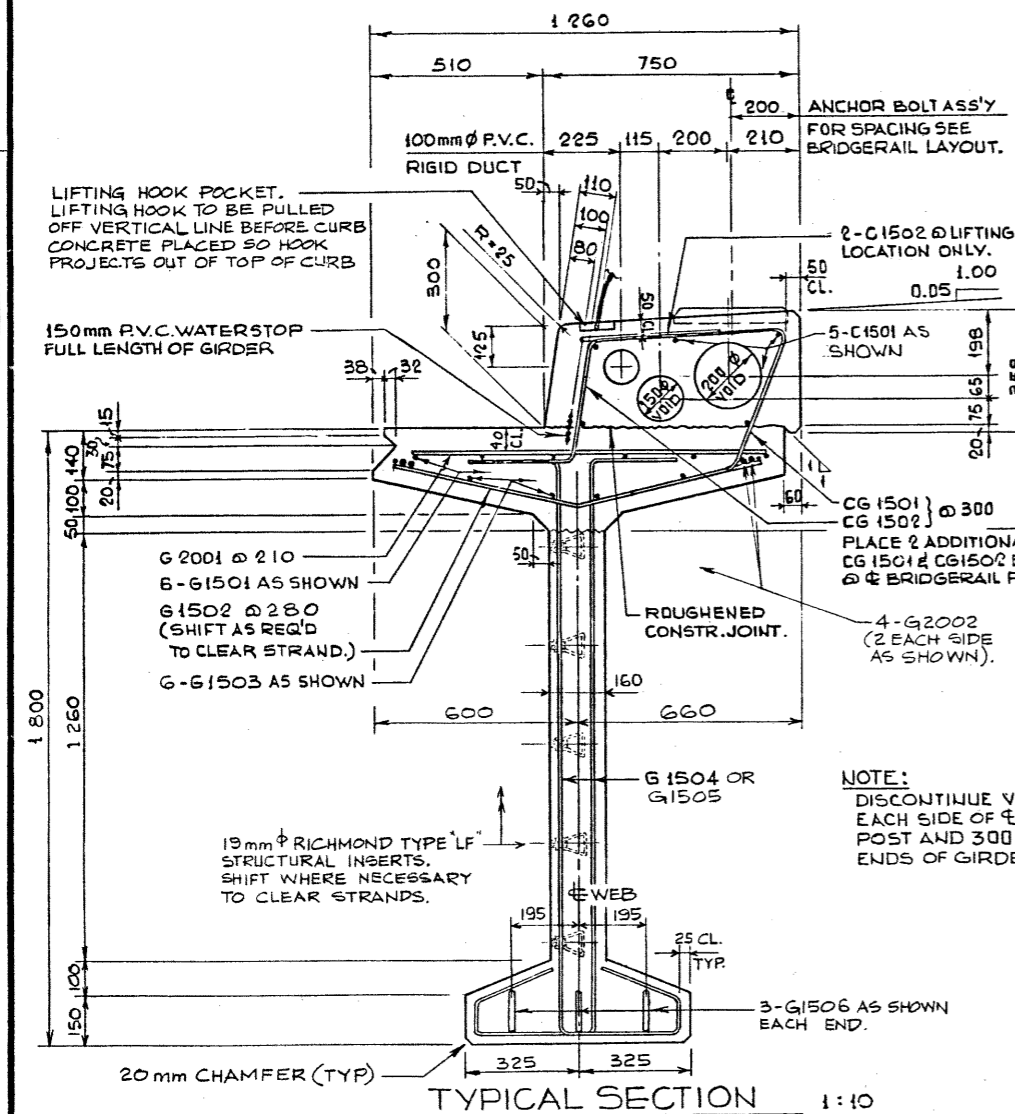
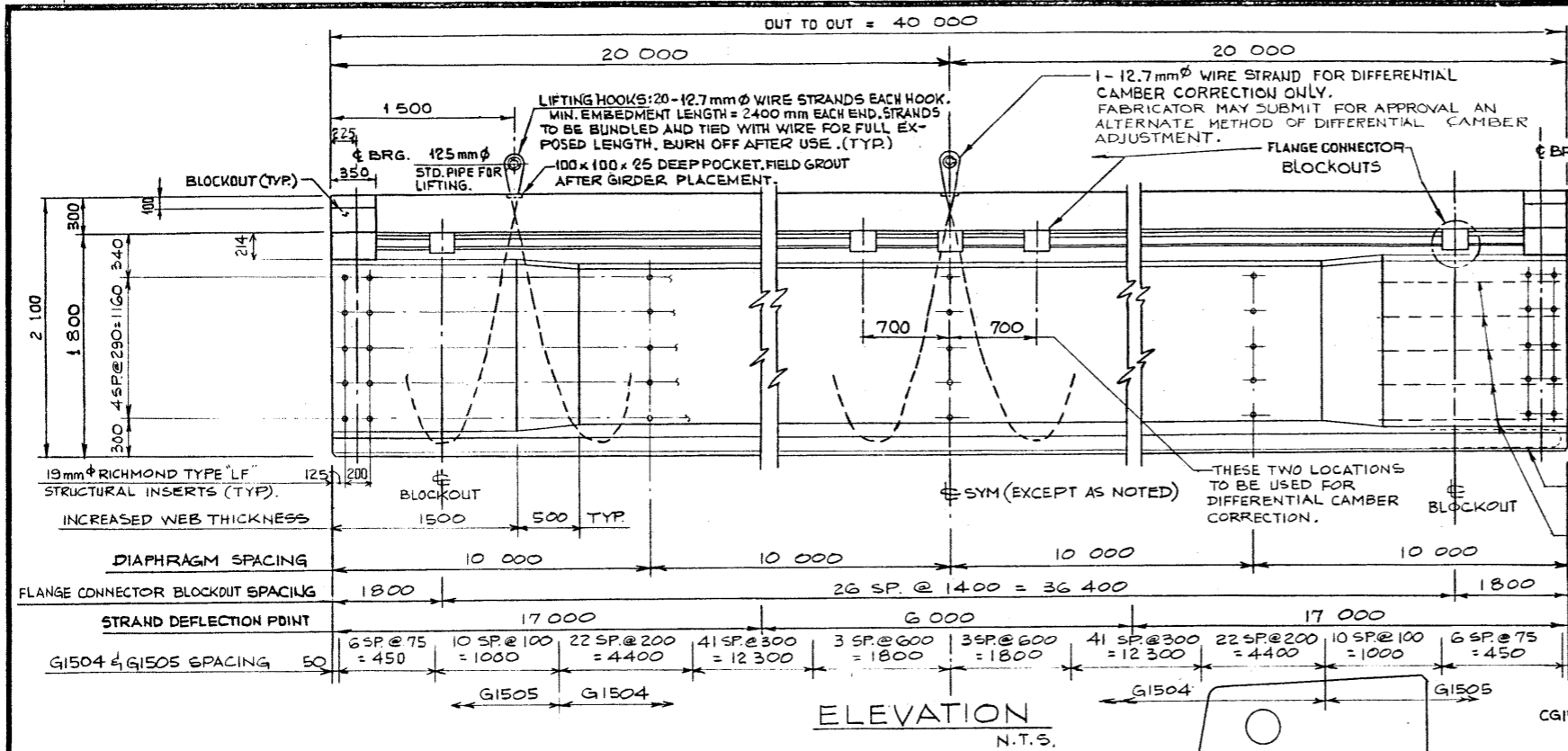
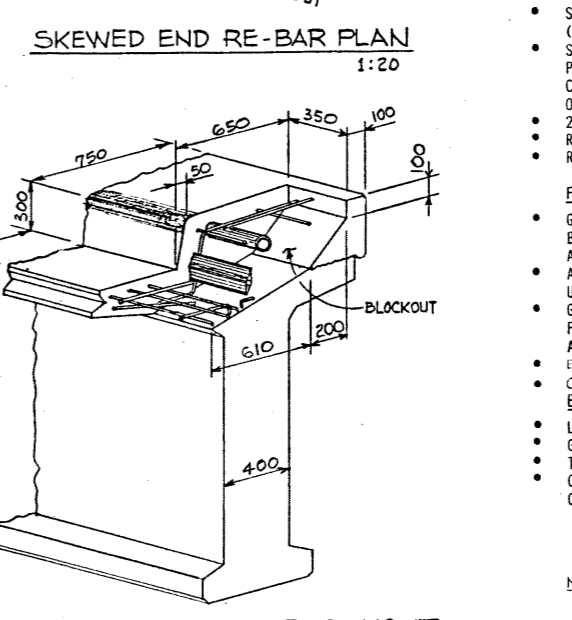
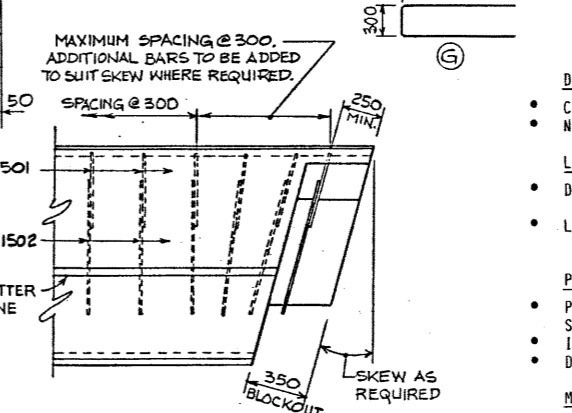


DESIGNED BY: J. A. S.
 DRAWN BY: P. SLOTS
 DATE: 82-02-16
 M.P.-272



BAR LIST ONE SQUARE GIRDER								
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	MASS	
G 1501	15	24	STR.			10 450	394	
G 1502	15	141	A			980	217	
G 1503	15	24	STR.			10 450	394	
G 1504	15	262	B			2 655	1092	
G 1505	15	68	F			2 615	279	
G 1506	15	6	C	945	110	2 065	19	
G 1507	15	10	G			3 300	52	
G 2001	20	188	STR.			960	425	
G 2002	20	16	STR.			10 150	405	
C 1501	15	20	STR.			10 450	328	
C 1502	15	4	C	400	110	970	6	
CG 1501 15 162 D							1 200	305
CG 1502 15 162 E							1 075	273
- INDICATES EPOXY COATED PLAIN							TOTAL kg: 912	
							TOTAL kg: 3277	
							GIRDER TOTAL kg: 4189	



GENERAL NOTES

- DESIGN:**
- C.S.A. CAN 3-S6-M78.
 - NO TENSION IN TOP FLANGE OF GIRDER.
- LOADING:**
- DEAD LOAD - GIRDER & CURB = 17.2 kN/M
 - WEARING SURFACE, SHEAR KEYS, RAILS = 1.4 kN/M
 - LIVE LOAD - C.S.A. CAN 3-S6-M78 - MS300 PLUS IMPACT - 0.95 WHEEL LINES/GIRDER
- PRESTRESSING STEEL:**
- PRESTRESSING STEEL SHALL BE 12.7 mm ϕ - 7 WIRE LOW RELAXATION STRAND (FPU = 1860 MPa)
 - INITIAL TENSIONING LOAD: 128.6 kN/STRAND
 - DESIGN LOAD AFTER LOSSES: 98.3 kN/STRAND
- MATERIALS:**
- STANDARD WEIGHT CONCRETE WITH NOT LESS THAN 5% AIR ENTRAINMENT (WHEN MEASURED IN PLASTIC STATE) SHALL BE USED AS NOTED.
 - SEMI-LIGHT WT. CONCRETE SHALL HAVE A UNIT WEIGHT OF 1920 kg/m³ PLUS OR MINUS 5% IN PLASTIC STATE AND BE MADE USING LIGHTWEIGHT COARSE AGGREGATE AND NATURAL SAND FINES WITH AN AIR ENTRAINMENT OF NOT LESS THAN 6%.
 - 28 DAY STRENGTH: 35 MPA
 - RELEASE STRENGTH: 28 MPA
 - REINFORCING STEEL SHALL BE A MINIMUM OF G30-12M GRADE 300.
- FABRICATION:**
- GIRDERS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ALBERTA BRIDGE BRANCH SPECIFICATION FOR THE MANUFACTURE OF PRESTRESSED AND PRECAST CONCRETE BRIDGE UNITS B-190M.
 - ALL EXPOSED CONCRETE CORNERS TO HAVE 20 mm CHAMFER OR FILLET UNLESS OTHERWISE NOTED.
 - GIRDER FORMS MUST BE ADJUSTABLE SUCH THAT THE TOP AND BOTTOM FLANGES OF THE GIRDER WILL FOLLOW THE SAME PARABOLIC CURVE WITH A MIDPOINT SAG AS SPECIFIED AT THE TIME OF CASTING.
 - EXPECTED GIRDER CAMBER DUE TO PRESTRESS IS 70 mm.
 - CURBS TO BE PLANT CAST WITH GIRDERS SIMPLY SUPPORTED.
- ERECTION:**
- LIFTING FORCE AT EACH HOOK MUST BE VERTICAL AT ALL TIMES.
 - GIRDER SURFACE MUST BE LEVEL AT ALL TIMES.
 - THEORETICAL MASS OF ONE GIRDER IS 4189 kg.
 - CAMBER DIFFERENTIAL TO BE FLATTENED BEFORE PLACING FLANGE CONNECTORS, USING JACKS TO LEVEL GIRDERS AND SPAN.
- NOTE:** GIRDERS SHALL BE GIVEN ADEQUATE TEMPORARY LATERAL SUPPORT IMMEDIATELY AFTER STRIPPING AND UNTIL GIRDERS ARE ERECTED.

SUPERSEDED

APPROVED		DATE	
CHIEF BRIDGE ENGINEER		DATE	
REVISIONS			
NO.	DATE	DESCRIPTION	DATE
DESIGNED	DRAWN BY	CHECKED BY	DATE
J.K.F.	V.G.B.	82-06-25	
STREAM	LOCATION	HWY NO	SCALE
			FILE NO
			SHEET
			DWG NO
SHOWN			S-1588