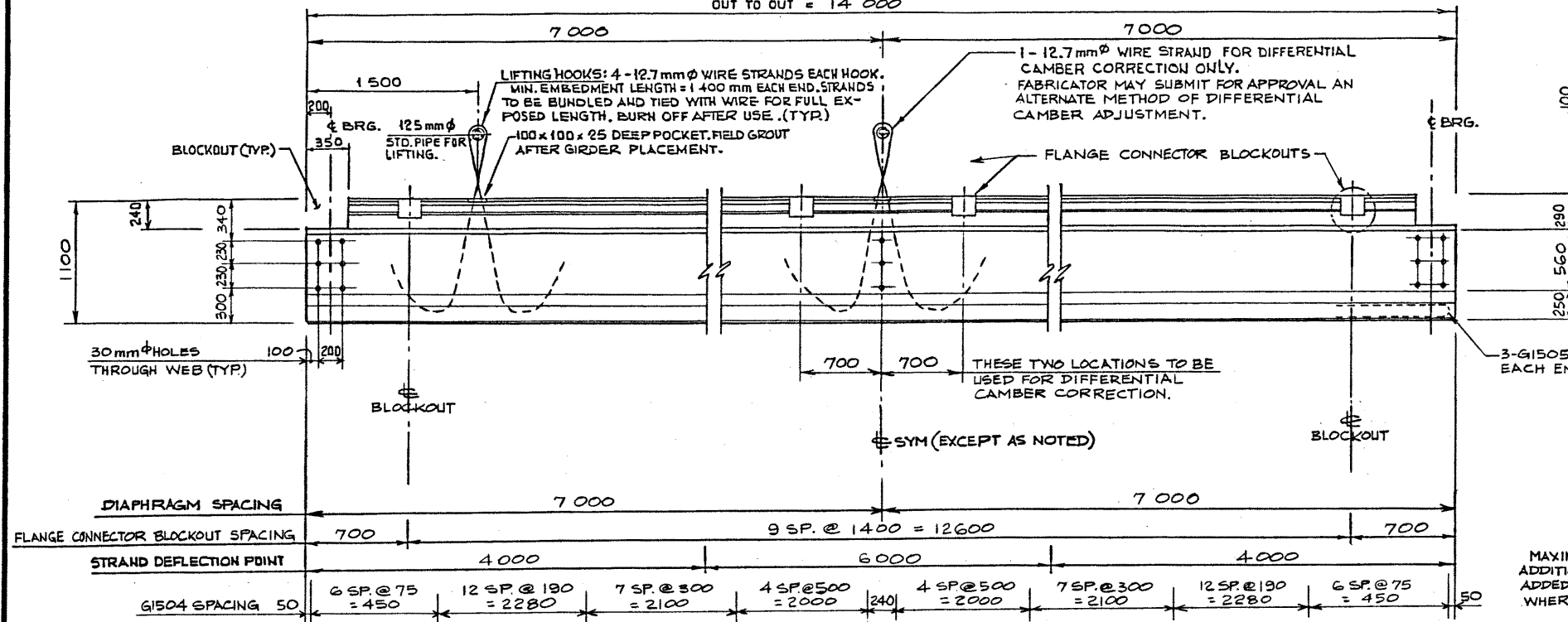
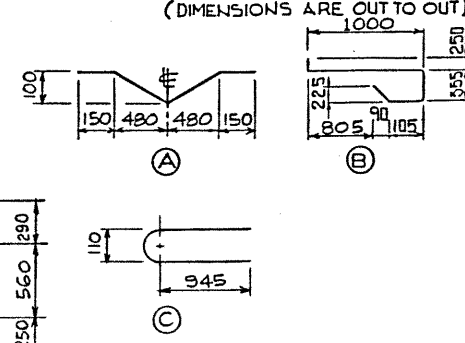


OUT TO OUT = 14 000



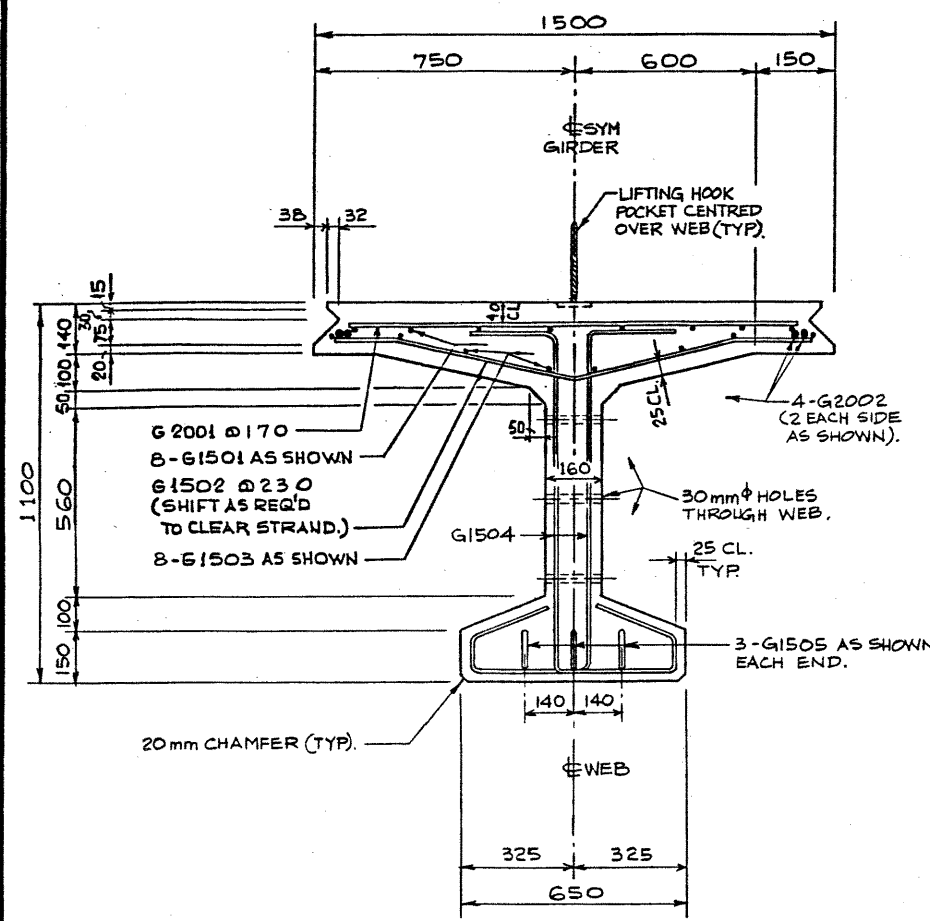
BAR TYPES:
(DIMENSIONS ARE OUT TO OUT)



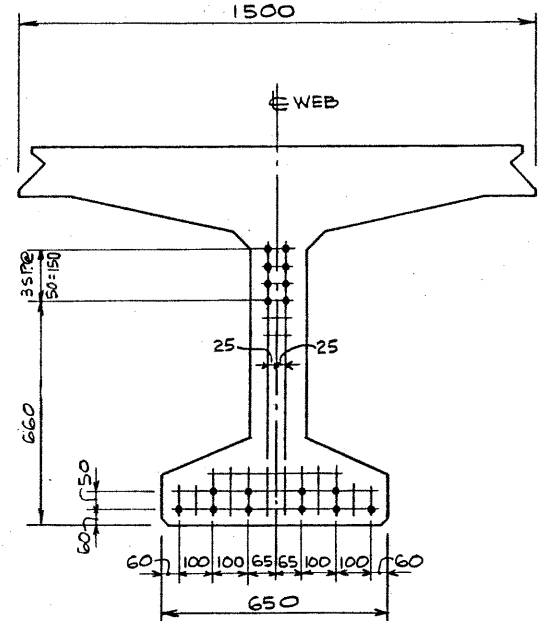
BAR LIST: ONE SQUARE GIRDER							
MARK	SIZE	NO.	TYPE	X	Y	LENGTH	MASS
G 1501	15	16	STR.			7420	186
G 1502	15	58	A			1280	117
G 1503	15	16	STR.			7420	186
G 1504	15	120	B			1955	368
G 1505	15	6	C			2065	19
G 2001	20	79	STR.			1260	234
G 2002	20	8	STR.			7730	146
						TOTAL kg:	1256



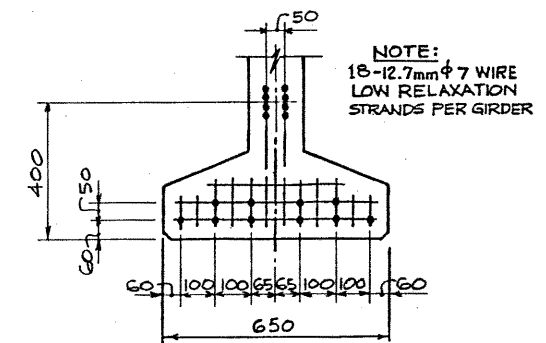
ELEVATION
N.T.S.



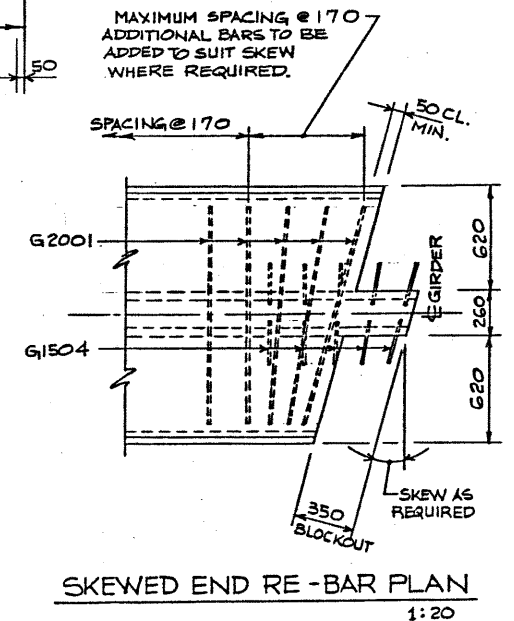
TYPICAL SECTION 1:10



END 1:10



MIDSPAN PRESTRESSING PATTERN 1:10



SKewed END RE-BAR PLAN
1:20

GENERAL NOTES

- DESIGN:**
- C.S.A. CAN 3-S6-M78.
 - NO TENSION IN TOP FLANGE OF GIRDER.
- LOADING:**
- DEAD LOAD - GIRDER = 12.37 kN/M
 - WEARING SURFACE, SHEAR KEYS = 2.04 kN/M
 - LIVE LOAD - C.S.A. CAN 3-S6-M78 - MS300 PLUS IMPACT = 0.89 WHEEL LINES/GIRDER
- PRESTRESSING STEEL:**
- PRESTRESSING STEEL SHALL BE 12.7 mm Ø - 7 WIRE LOW RELAXATION STRAND (F_{pu} = 1860 MPa)
 - INITIAL TENSIONING LOAD: 128.6 kN/STRAND
 - DESIGN LOAD AFTER LOSSES: 105.4 kN/STRAND
- MATERIALS:**
- STANDARD WEIGHT CONCRETE WITH NOT LESS THAN 5% AIR ENTRAINMENT (WHEN MEASURED IN PLASTIC STATE) SHALL BE USED THROUGHOUT.
 - 28 DAY STRENGTH: 35 MPa
 - RELEASE STRENGTH: 28 MPa
 - REINFORCING STEEL SHALL BE A MINIMUM OF 630-12M 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 10 mm.
- 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 19.3 TONNES.
 - CAMBER DIFFERENTIAL TO BE ELIMINATED BEFORE WELDING FLANGE CONNECTORS, USING JACKING BEAM & LIFTING HOOKS AT MID SPAN.

NOTE:
GIRDERS SHALL BE GIVEN ADEQUATE TEMPORARY LATERAL SUPPORT IMMEDIATELY AFTER STRIPPING AND UNTIL GIRDERS ARE ERECTED.

DESIGNED BY: J. A. S.
DRAWN BY: P. SZÖTS
DATE: 82-03-03
M.P.-262



APPROVED		Alberta TRANSPORTATION BRIDGE AND STRUCTURAL ENGINEERING BRANCH		METRIC	
CHIEF BRIDGE ENGINEER		PRESTRESSED CONCRETE 14m TYPE D.B.T. 1100 x 1500 INTERIOR GIRDER			
DESIGNED	DRAWN BY	DATE	CHECKED BY	DATE	SCALE
K.S.T.	V.G.B.	82-07-12			SHOWN
REVISIONS		STREAM	LOCATION	HPY NO	SCALE
					FILE NO
					SHEET
					OWO NO
					S-1533

M.P.-262