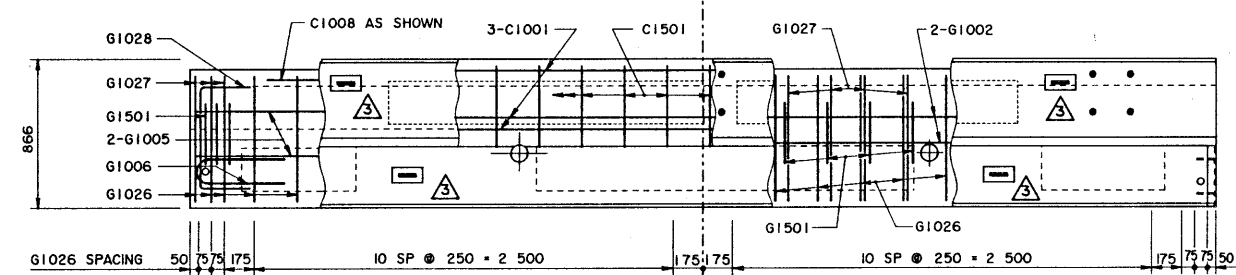
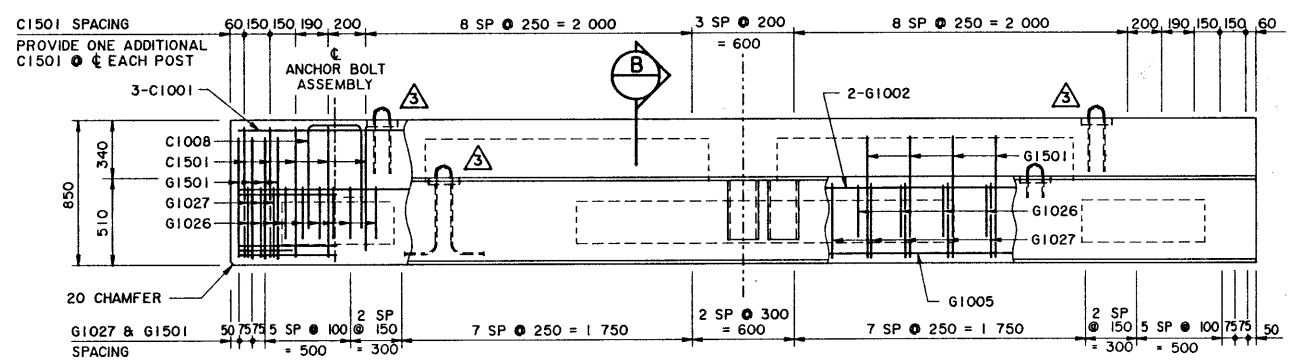


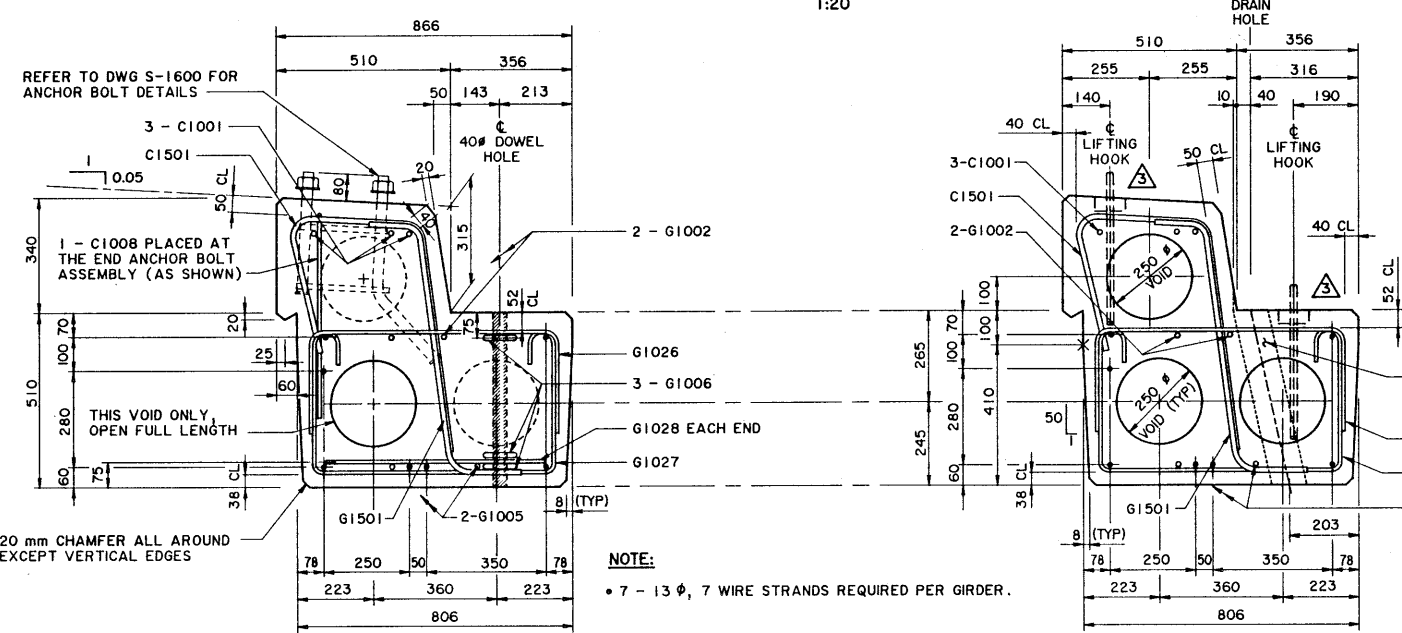
PLAN VIEW  
1:20



REINFORCEMENT PLAN  
1:20

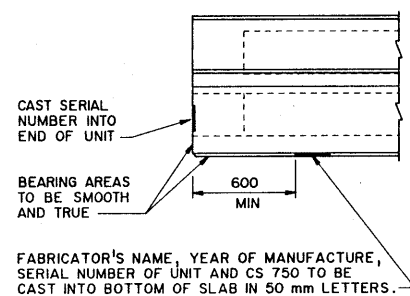
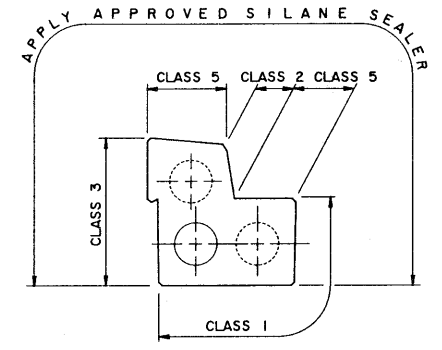
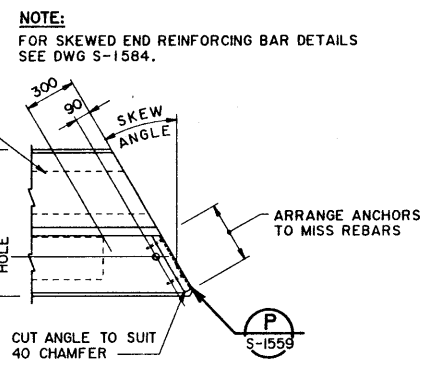


ELEVATION  
1:20



SECTION A  
1:10

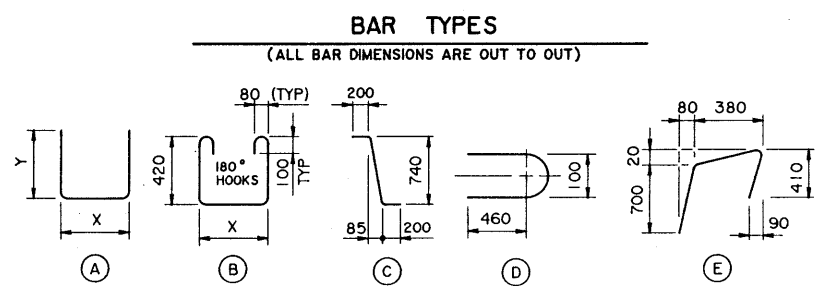
SECTION B  
1:10



GIRDER FINISHES  
(BY FABRICATOR) 1:20

BAR LIST: FOR SQUARE GIRDER							
MARK	SIZE	NO	TYPE	X	Y	LENGTH	MASS
C1001	10	3	STR			5 900	14
C1008	10	2	A	310	600	1 510	2
C1501	15	31	E			1 455	71
G1006	10	6	D			1 080	5
G1002	10	2	STR			6 000	9
G1005	10	2	STR			5 900	9
G1026	10	29	A	725	300	1 325	30
G1027	10	35	B	725		1 820	50
G1028	10	2	A	600	300	1 200	2
G1501	15	35	C			1 140	63

TOTAL kg : 255



GENERAL NOTES

- ALL DRAWING REFERENCES ARE TO CURRENT DRAWINGS.
- DESIGN
  - CAN/CSA-S6-88 SPECIFICATIONS EXCEPT AS MODIFIED BELOW:
    - ALLOWABLE TENSION AT MIDSPAN IS 40% OF MODULUS OF RUPTURE (SEVERE EXPOSURE CONDITIONS).
    - NO TENSION ALLOWED IN DECK SURFACE.
- LOADING:
  - LIVE LOAD - CAN/CSA-S6-88; CS-750  
0.8 WHEEL LINES PER GIRDER
  - DEAD LOAD - GIRDER = 0.86 t/m
  - WEARING SURFACE = 0.09 t/m
- MATERIALS
  - CONCRETE SHALL CONTAIN SILICA FUME AND BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND NATURAL SAND FINES. UNIT WEIGHT OF SEMI-LIGHTWEIGHT CONCRETE SHALL BE 1920 kg/m<sup>3</sup>.
  - 28 DAY CONCRETE STRENGTH - 35 MPa
  - RELEASE STRENGTH - 28 MPa
  - PRESTRESSING STEEL SHALL BE 13 φ, 7 WIRE LOW RELAXATION STRAND (f<sub>pu</sub> = 1860 MPa).
  - REINFORCING STEEL SHALL BE GRADE 400W (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 = 113 kN/STRAND
  - CURB SHALL BE CAST MONOLITHICALLY WITH GIRDER.
  - ANCHOR BOLT ASSEMBLIES SHALL BE CAST IN GIRDER AT SPACINGS SHOWN ON DRAWING S-1561.
  - ALL GALVANIZING SHALL CONFORM TO ASTM SPEC A123 OR A153 AS APPLICABLE.
- ERECTOR
  - ANY FREE SPACE BETWEEN CONNECTORS SHALL BE FILLED WITH DROP-IN WASHERS.
  - CALCULATED MASS OF ONE GIRDER IS 5.6 t.

**SUPERSEDED**  
BY REVISION

**SUPERSEDED**

REV	DATE	REVISIONS	BY
94-04-05		LIFTING HOOK POCKET	LEA
93-12-13		BAR LENGTH REVISED	SBD
93-08-27		CONNECTOR AND LIFTING HOOK LOCATION NOTE, BAR LIST REVISED	LEA

APPROVED  
EXECUTIVE DIRECTOR  
BRIDGE ENGINEERING  
DATE: May 24/94

Albarta TRANSPORTATION AND UTILITIES  
BRIDGE ENGINEERING BRANCH

PRESTRESSED CONCRETE  
6.10 m TYPE SC-510  
CURB GIRDER

DESIGNED	DRAWN	DATE	CHECKED	DATE	STREAM	LOCATION	HIGHWAY	FILE	SHEET	DRAWING
LEA	VMV	93-08-19	SBD	94-05-16					2 OF 4	S-1560