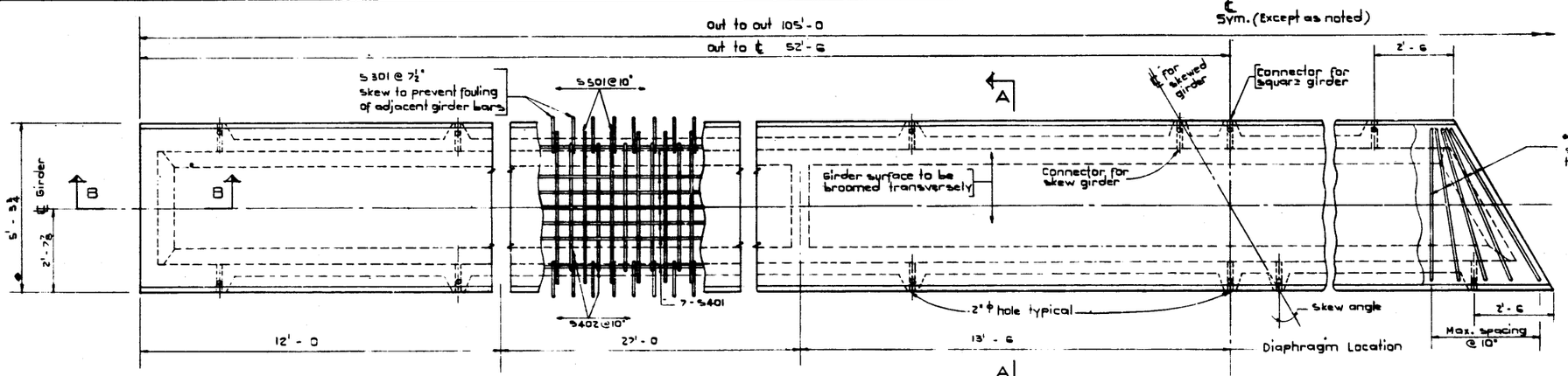
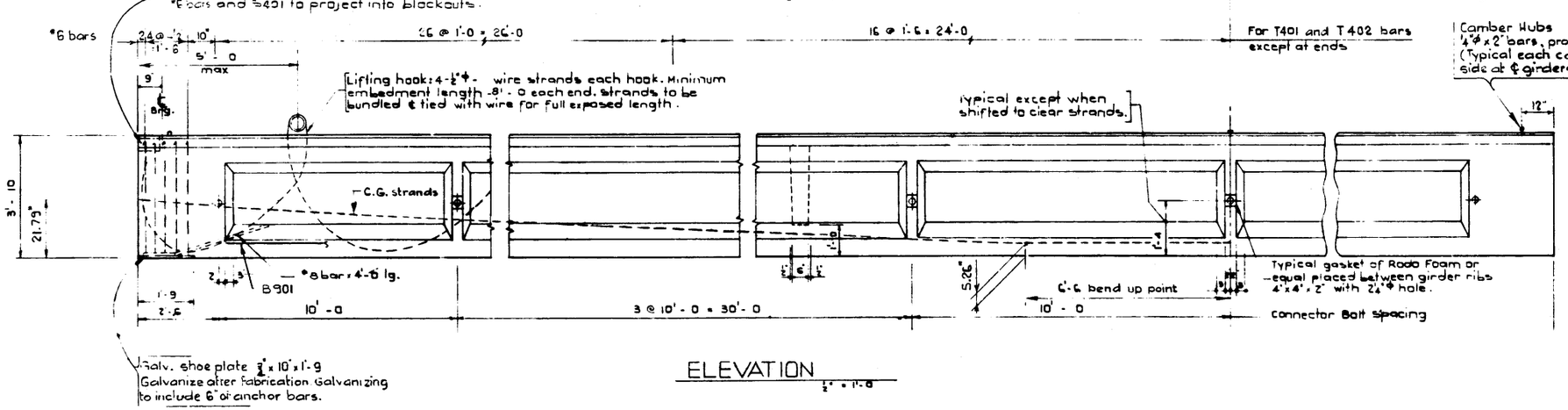


PLAN

½" = 1'-0



SKEW END

½" = 1'-0

Galv. shoe plate ⅜" x 10" x 1'-9
Galvanize after fabrication. Galvanizing to include 6" of anchor bars.

ELEVATION

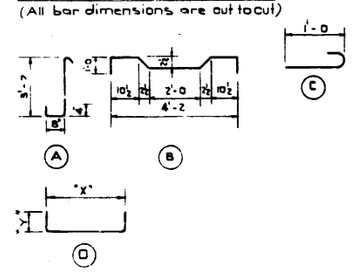
½" = 1'-0

BAR LIST	For Unskewed Girder						
MARK	SIZE	NO	TYPE	"X"	"Y"	LENGTH	WEIGHT
D 601	6	8	D	4'-2	1'-0	6'-2	74
D 602	6	4	D	5'-0	1'-0	7'-0	42
S 301	3	338	C			1'-3	130
S 401	4	21	Str.			36'-8	500
S 402	4	126	B			6'-4	533
S 501	5	254	Str.			4'-9	1258
T 401	4	170	A			5'-0	568
T 402	4	170	D	0'-5	0'-6	1'-5	161
T 601	6	4	D	4'-6	1'-0	6'-6	39
B 901	9	4	str.			100'-0	1360

Total lbs: 4715

BAR TYPES:

(All bar dimensions are out to out)



GENERAL NOTES:

DESIGN

- A.A.S.H.O. 1969 Specification.
- Loading: 0.90 of one wheel line of an HS 20-44 truck plus full dead load plus 2½" wearing surface.

MATERIALS

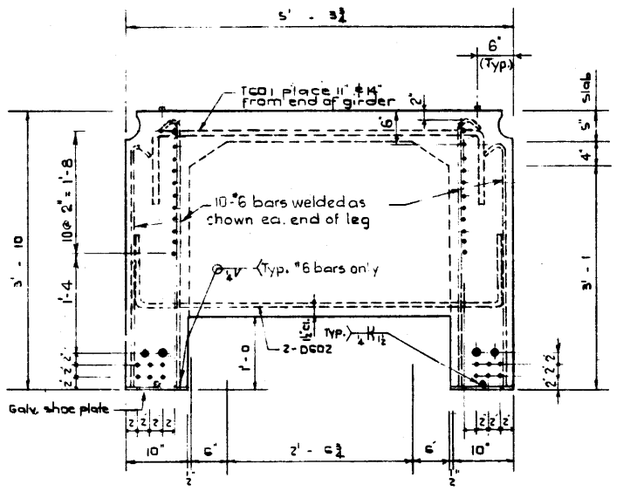
- Prestressing steel is 270 K ½" ϕ - 7 wire strand.
- Light weight aggregates shall conform to the requirements of A.S.T.M. Spec. C 330 with max. aggregate size of ¾" nm. 28 day compressive strength to be 5000 p.s.i. Unit weight of the concrete shall be 120 lbs. per cubic foot plus or minus 5% in the plastic state. Entrained air shall be not less than 5%.

FABRICATION

- Reinforcement: Diameters of all bends shall conform to the recommended sizes and all hooks, unless otherwise noted, shall conform to the recommended sizes detailed in the A.C.I. Manual of Standard Practice for Detailing Reinforced Concrete Structures.
- Prestressing steel: Initial tensioning load = 28.91 K / strand
  Design Load = 25.27 K / strand
- Concrete must attain 4200 p.s.i. compressive strength before the prestressing force is transferred.
- Galvanizing shall be in accordance with A.S.T.M. spec. A123
- Units are to conform to the requirements of the Alberta Bridge Branch Specification B 190-C4 for the Manufacture of Prestressed Concrete Bridge Units.

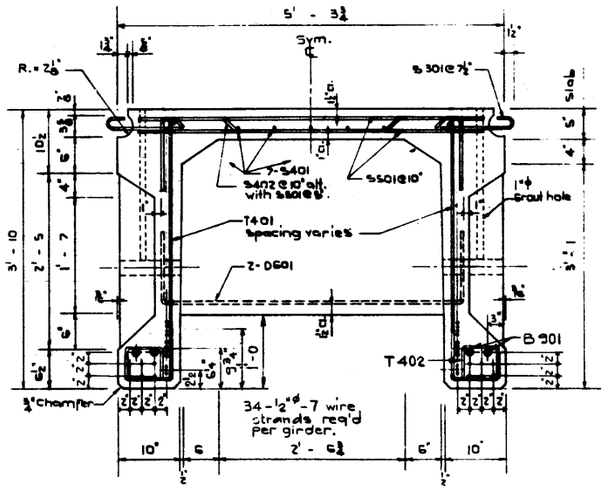
ERECTION

- Lifting force at each hook must be vertical at all times.
- Girder surface must be level at all times.



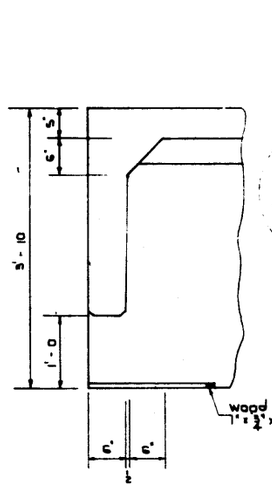
END VIEW

1" = 1'-0



A - A

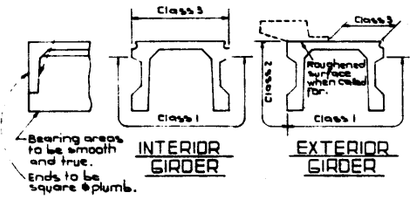
1" = 1'-0



B - B

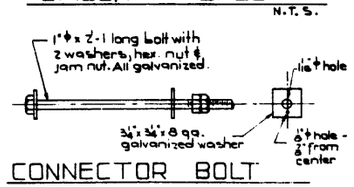
1" = 1'-0

Fabricator's name, year of manufacture and serial number of unit to be cast into diaphragm in 2" letters.



GIRDER FINISHES

N.T.S.



CONNECTOR BOLT

NO.	DATE	DESCRIPTION	BY

REVISIONS

PRESTRESSED CONCRETE 105'-0 TYPE FC-46" GIRDER LIGHTWEIGHT CONCRETE

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS
BRIDGE BRANCH, EDMONTON

FILE NO. ____ HWY. NO. ____ DWG. NO. S-992
LOCATION ____ SCALE ____
STREAM ____ SHEET ____ OF ____

DESIGNED BY C.W. Peterson DATE Sept 19 70
DETAILED BY L. Kohlmann & P. Szots DATE Sept. 19 70
CHECKED BY ____ DATE Oct. 19 70