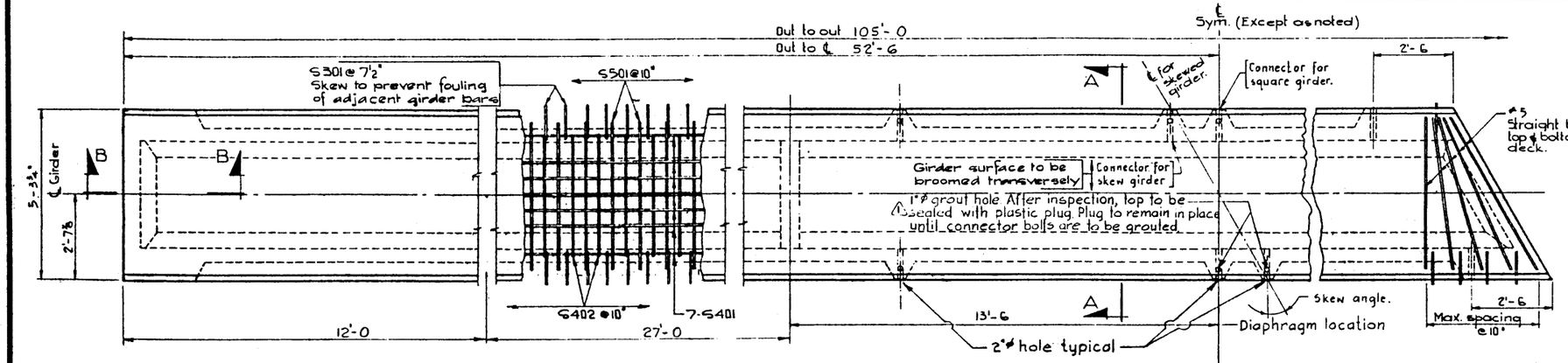
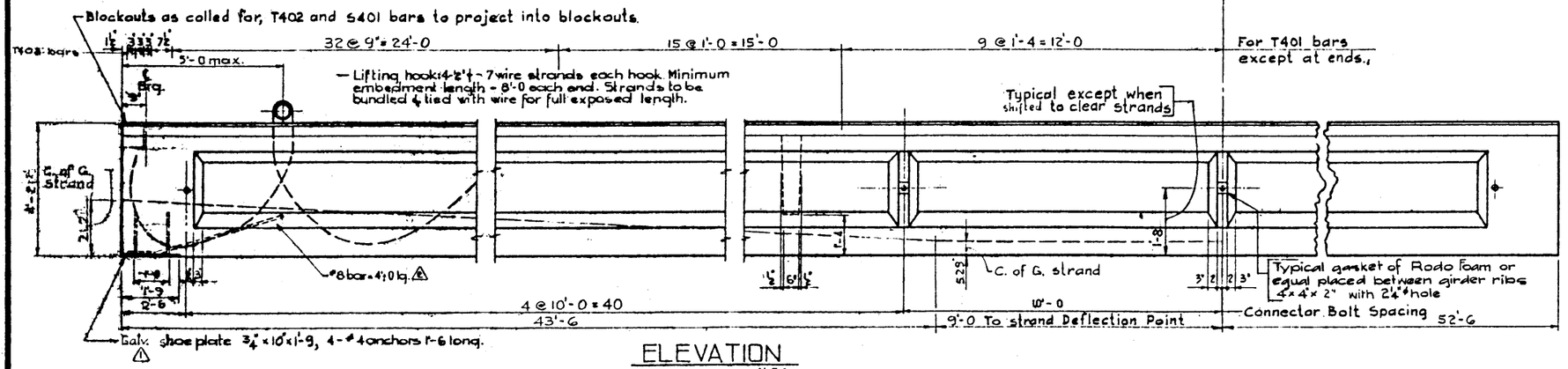


PLAN
N.T.S.

SKEW END
Scale: 1" = 1'-0

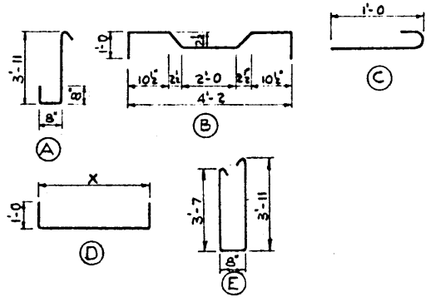


ELEVATION
N.T.S.

BAR LIST For Unskewed Girder							
MARK	SIZE	NO.	TYPE	A	B	LENGTH	WEIGHT
D601	6	8	D	4'-2		6'-2	74
D602	6	4	D	5'-0		7'-0	42
S301	3	336	C			1'-5	179
S401	4	21	str			35'-8	500
S402	4	126	B			6'-4	533
S501	5	254	str			4'-9	1258
T401	4	226	A			5'-8	855
T402	4	16	E			9'-0	96
T601	6	24	str			3'-8	132

TOTAL Lbs: 3,669

BAR TYPES
(All bar dimensions are out to out)



GENERAL NOTES:

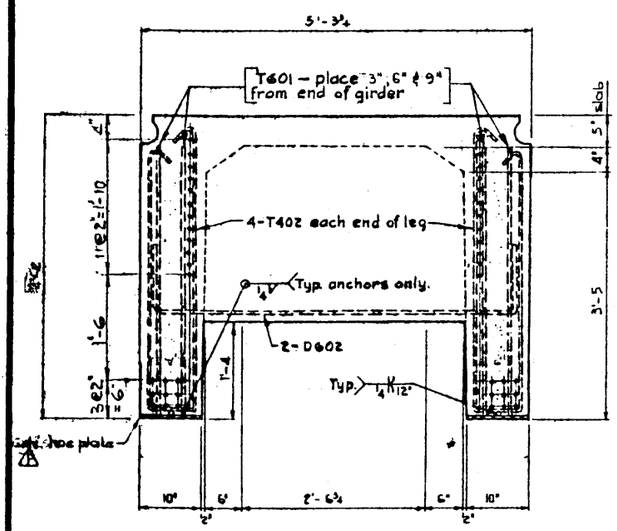
DESIGN
A.A.S.H.O. 1965 Specification.

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

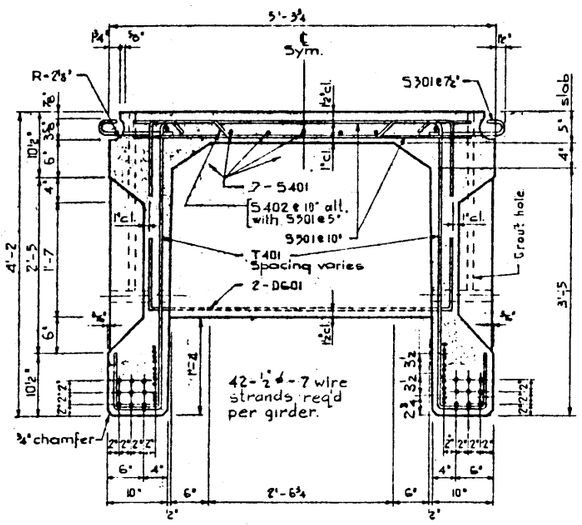
MATERIALS
Prestressing steel is A.S.T.M.-A-416 ½" ø - 7 wire strand
Concrete shall be of standard weight aggregate with a max. size of ¾". Minimum compressive strength shall be 5000 p.s.i. at 28 days. Entrained air shall be between 5% and 8%

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 = 25.2 K/strand
  Design Load = 19.3 K/strand
- Concrete must attain 4000 p.s.i. compressive strength before the prestressing force is transferred.
- Galvanizing shall be in accordance with A.S.T.M. Spec. A153
- Units are to conform to the requirements of the Alberta Bridge Branch Specification B190-64 for the Manufacture of Prestressed Concrete Bridge Units.

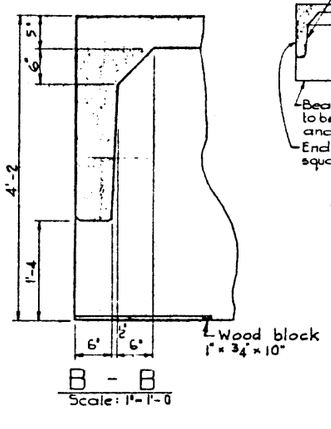
ERECTION
- Lifting force at each hook must be vertical at all times.
- Girder surface must be level at all times.



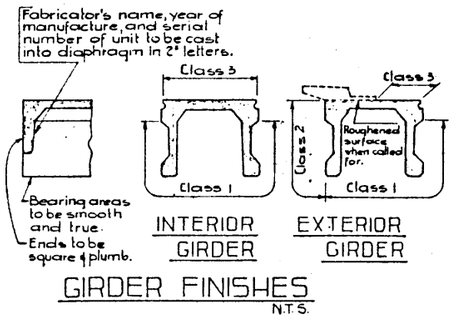
END VIEW
Scale: 1" = 1'-0



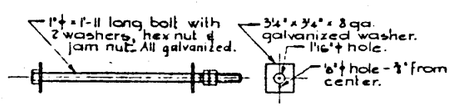
A - A
Scale: 1" = 1'-0



B - B
Scale: 1" = 1'-0



GIRDER FINISHES
N.T.S.



CONNECTOR BOLT

NO.	DATE	DESCRIPTION	BY
		REVISIONS	
4			
3			
2	Mar. 3. 69	Shoe Plate Anchor Bar	T.B.
1	Nov 18 '68	1" hole & galv shoe pl.	R.Ch.

PRESTRESSED CONCRETE 105'-0 TYPE FC-50 GIRDER

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

FILE NO. _____ HWY. NO. _____ DWG. NO. 5-964
LOCATION _____ SCALE _____
STREAM _____ SHEET ____ OF ____