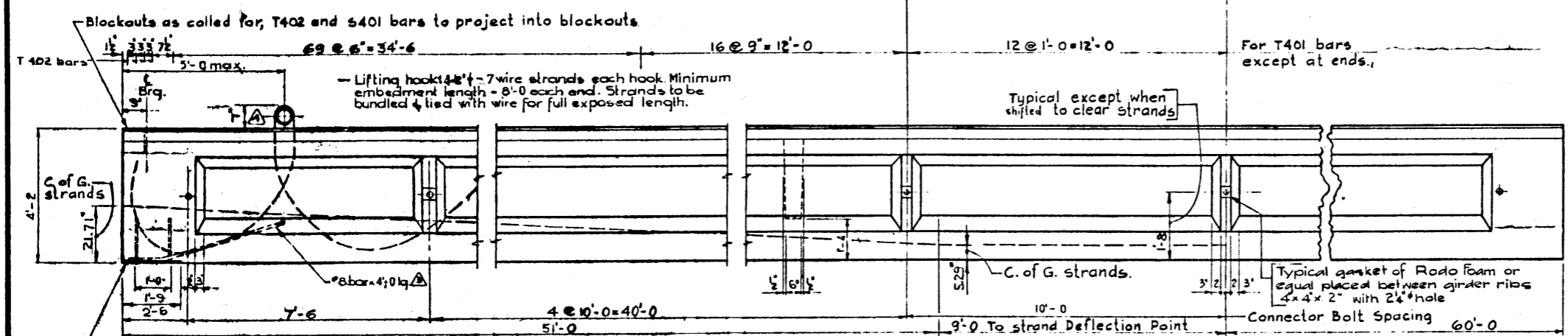
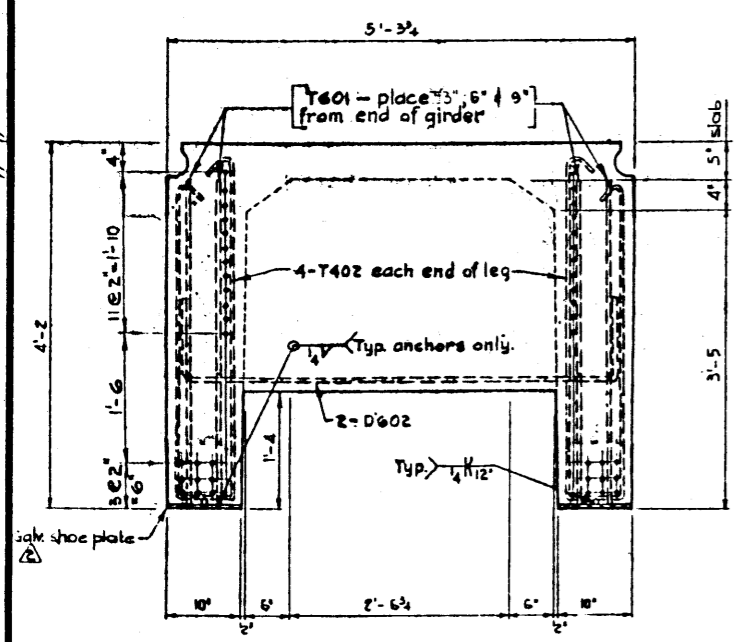


PLAN  
N.T.S.

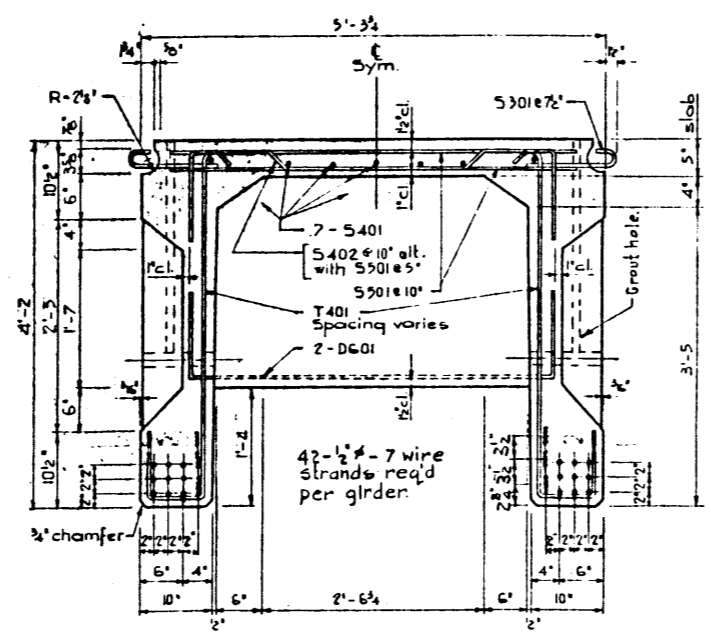
SKEW END  
Scale: 1/2"=1'-0"



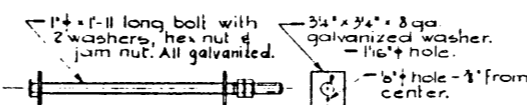
ELEVATION  
N.T.S.



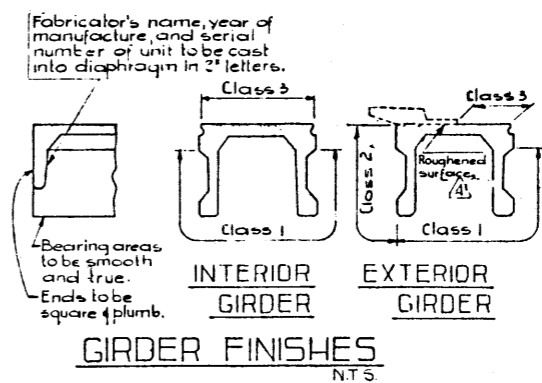
END VIEW  
Scale: 1"=1'-0"



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



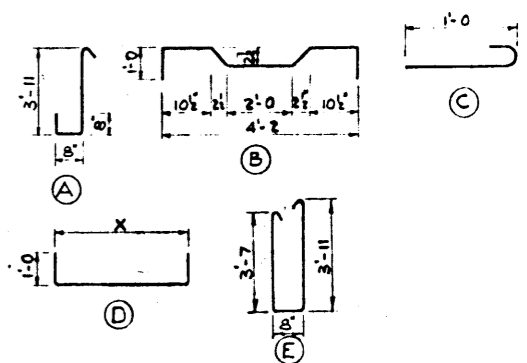
CONNECTOR BOLT



GIRDER FINISHES  
N.T.S.

BAR LIST For Unskewed Girder						
Bar	Qty	Size	Shape	Length	Weight	Total
D601	6	8	D	4'-2"	6'-2"	74
D602	6	4	D	5'-0"	7'-0"	42
S301	3	38	C		1'-5"	205
S401	4	28	str		30'-9"	575
S402	4	144	B		6'-4"	609
S501	5	290	str		4'-9"	1437
T401	4	390	A		5'-8"	1476
T402	4	16	E		9'-0"	96
T601	6	24	str		3'-8"	132
						TOTAL Lbs: 4,646

BAR TYPES  
(All bar dimensions are out to out)



GENERAL NOTES :

- DESIGN**  
A.A.S.H.O. 1965 Specification.  
ACI 318-63 Shear design, Sp. 5.6.7  
Loading: 0.90 of one wheel line of an H 5 20 - 44 truck plus full dead load plus 2 1/2" wearing surface.
- MATERIALS**  
• Prestressing steel to 270K 1/2" x 7 wire strand  
• Light weight aggregate shall conform to the requirements of A.S.T.M. Specification C330 with max. aggregate size of 3/4". Min. 28 days 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 = 28.9 k/strand  
Design Load = 22.2 k/strand
- Concrete must attain 4500 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.

PRESTRESSED CONCRETE  
120-0 TYPE FC-50 GIRDER  
LIGHTWEIGHT UNIT

GOVERNMENT OF THE PROVINCE OF ALBERTA DEPARTMENT OF HIGHWAYS BRIDGE BRANCH, EDMONTON			
FILE NO.	HWY. NO.	DWS. NO.	
LOCATION	SCALE	5-967	
STREAM	SHEET	OF	

NO.	DATE	DESCRIPTION	BY
1	April 18/69	Notes & dimension	J.R.C.
2	Mar. 3/69	Shoe Plate Anchor Bar	T.B.
3	Dec. 3/68	1" hole & galv shoe PL	R.Ch.
4	SEPT. 12/68	General Note	J.R.C.

DESIGNED BY T. BELKE DATE FEBRUARY 1968  
 CHECKED BY M. FILIPAK DATE FEBRUARY 1968  
 DATE July 1969