

**= GENERAL NOTES =**

**DESIGN**

Specifications: Recommendations of the A.C.I.-A.S.C.E. Joint Committee and an allowable tension in the extreme top fiber of  
 (a) 0.0016 at time of transfer  
 (b) 0.0016 under final dead plus live load conditions  
 Loading: A A 5-0, H20-S16-44  
 No allowance has been made for wearing surface.

**MATERIALS**

Prestressing steel is to conform to the requirements of A.S.T.M. specification A-421-56T (Tensile strength 150,000 p.s.i.)  
 Mild steel reinforcing is to conform to the requirements of C.S.A. Specification G30.1 for intermediate grade reinforcing.  
 Mild steel reinforcing is to be deformed in accordance with the requirements of C.S.A. Specification S30.6.  
 The stringer concrete is to have a cylinder strength at 4000 p.s.i. before the prestressing force is transferred.  
 Concrete to have a 28 day strength of 5000 p.s.i.  
 Maximum size of aggregate to be 1".  
 Stress-Strain Curves: A copy of the manufacturer's stress-strain curve for each lot of prestressing steel used and the location of each lot used, shall be supplied to the Dept.

**FABRICATION**

All acute corners on skewed girders to have 1/4" chamfer.  
 Concrete test cylinders shall be tested by an independent testing laboratory; copies of all test results shall be forwarded to the Bridge Branch.  
 Tests shall be taken at the rate of one cylinder each two stringers with not less than two cylinders for each day's pouring.

Construction procedures are to comply with chapters 4 of the A.C.I.-A.S.C.E. Joint Committee Recommendations.  
 Stringers are to be constructed under the direction of a qualified Engineer.  
 Initial jack forces shall be 16.3/100 strands for the top strands and 17.65/100 strands for the bottom strands.  
 Exterior face of exterior stringers to be finished to a smooth, hard uniform color and texture, dense surface finish.  
 Other surfaces to have all pockets filled and all fins removed.  
 Stringer Marks: Each stringer shall be marked with a number, 3 high and 1/2 deep, cast in the bottom of the stringer 6" from one end. Stressing data shall be supplied for each stringer and where applicable, the list of prestressing steel shall be indicated on the stressing data sheet.

**NOTE: LIFTING FORCE AT EACH BOLT IS TO BE VERTICAL AT ALL TIMES.**

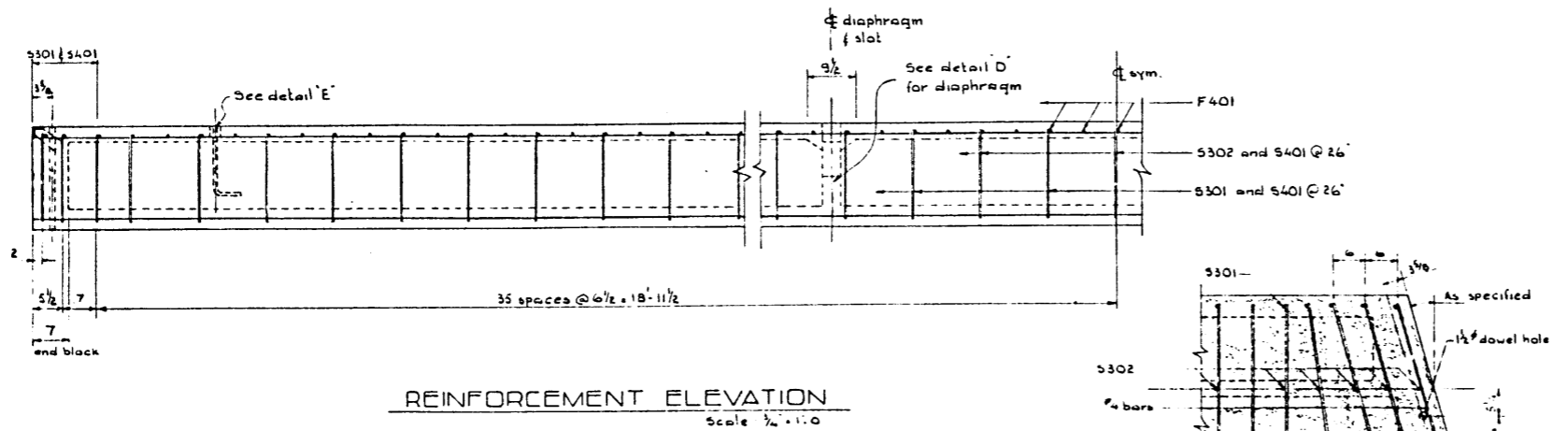
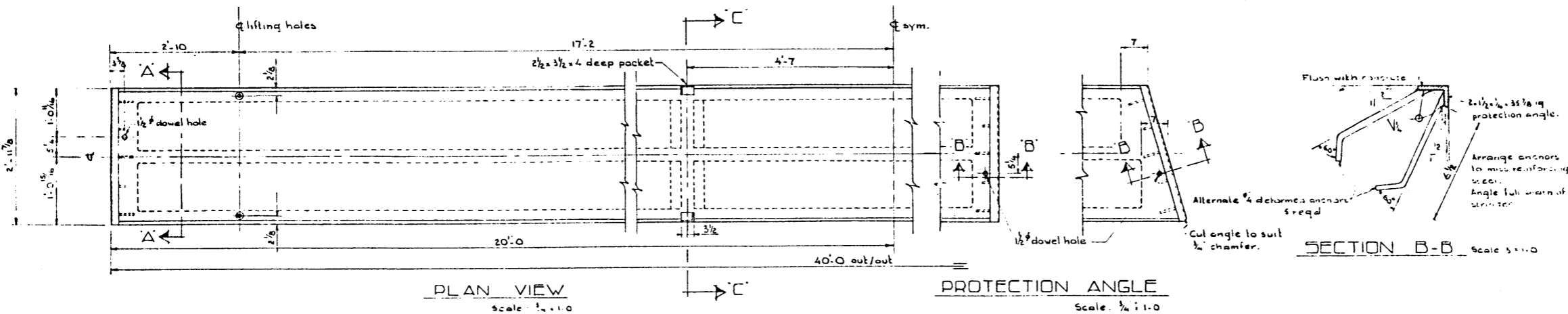
FOR HOISTING DETAILS SEE DWG. 5760

**PRESTRESSED CONCRETE  
 40 FT. SPAN  
 TYPE 'K' STRINGER**

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

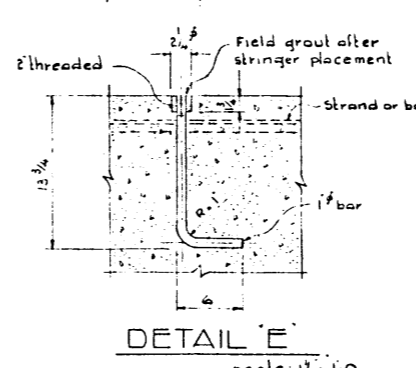
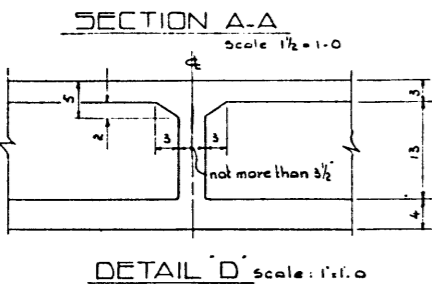
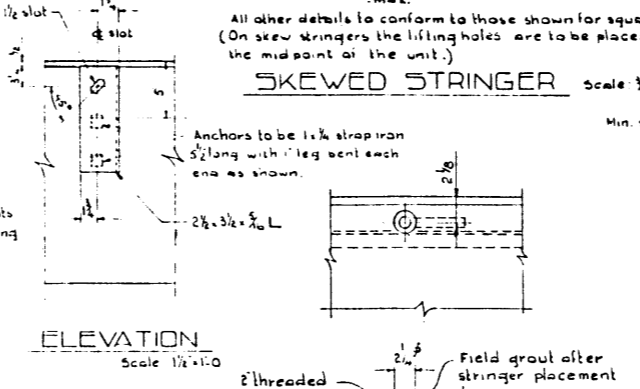
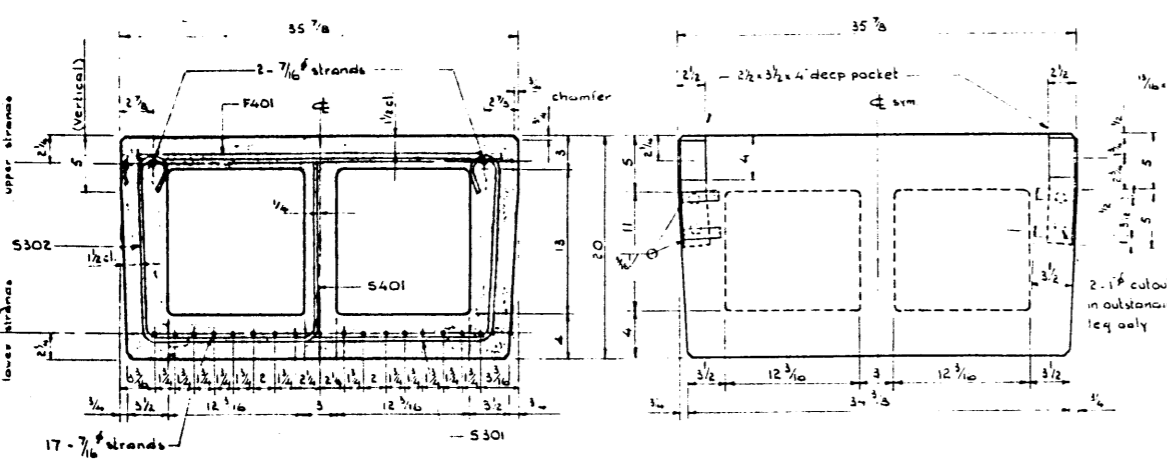
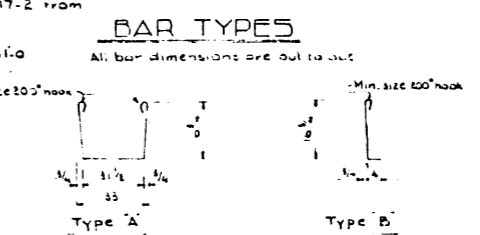
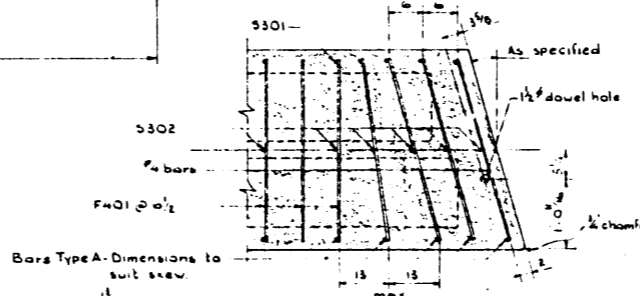
FILE NO. \_\_\_\_\_ HWY. NO. \_\_\_\_\_ DWG. NO. 5754  
 LOCATION \_\_\_\_\_ SCALE 3/4" = 1'-0" SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 STREAM \_\_\_\_\_

NO.	DATE	DESCRIPTION	BY



**BAR LIST**

Mark	Size	Number	Type	X	Length	Weight
S301	3	24	A		6-3	56
S302	3	34	B		2-1 3/4	27
S401	4	41	C		2-1	57
F401	4	75	Str		2-9	138
Total						278 lb



DESIGNED BY: R.P. Brill  
 DETAILED BY: R. Elenbaas  
 CHECKED BY: \_\_\_\_\_  
 DATE: April 18, 1951

Note: Skewed stringers to have skewed diaphragms