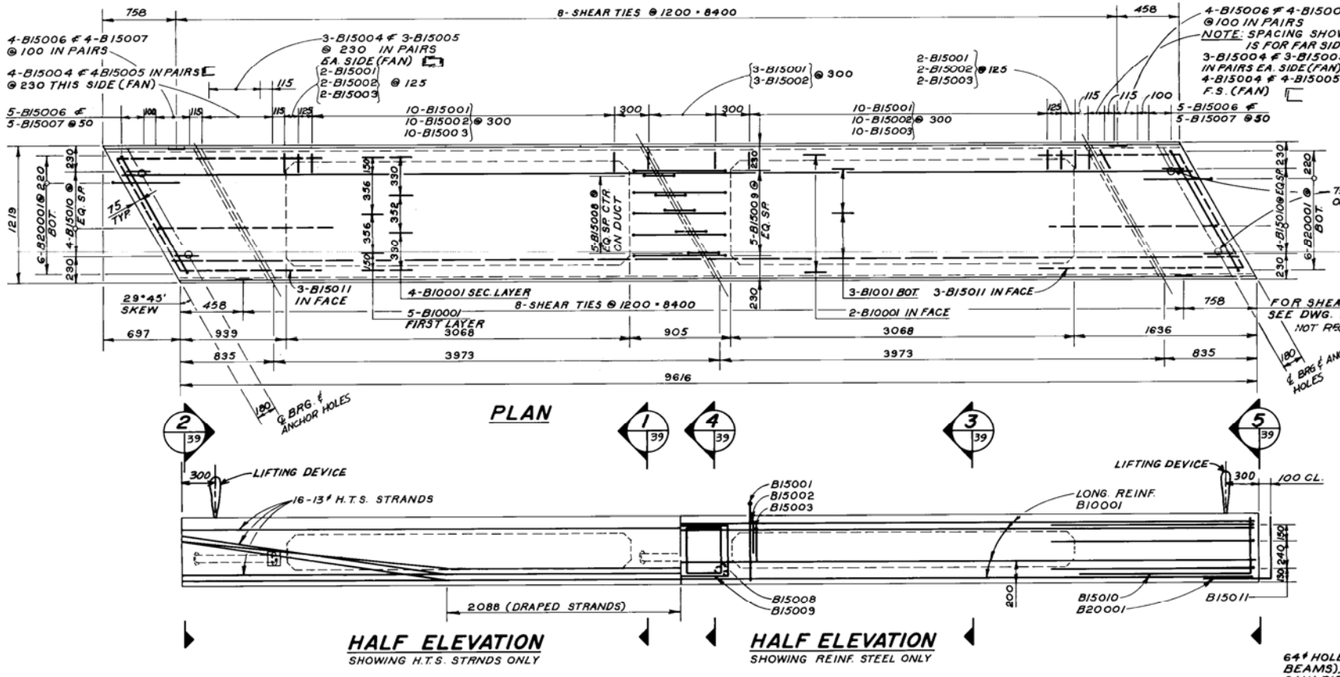
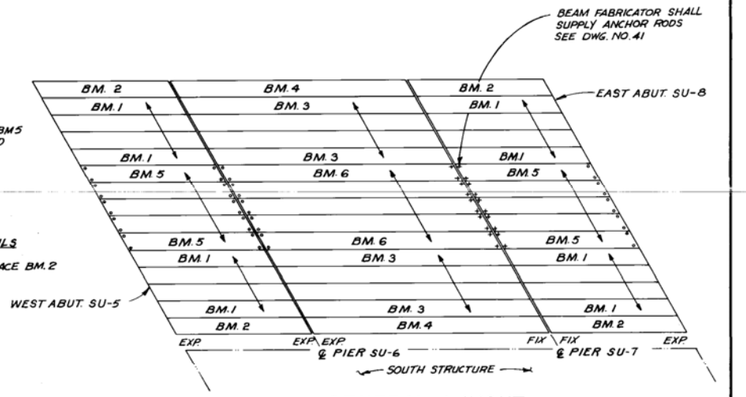


PLAN

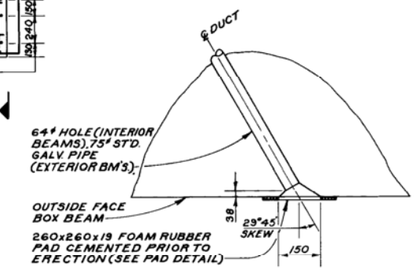
HALF ELEVATION
SHOWING H.T.S. STRANDS ONLY

HALF ELEVATION
SHOWING REINF. STEEL ONLY

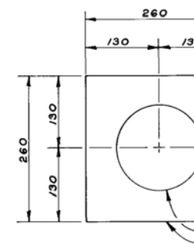
BEAM QUANTITY - SOUTH STRUCTURE
16 - BM. 1 REQ'D. SIMILAR BUT AS NOTED
4 - BM. 2 REQ'D. SIMILAR BUT WITH NO GROUT KEY ON EXTERIOR FACE, ℄ AS NOTED
10 - BM. 5 REQ'D. AS SHOWN



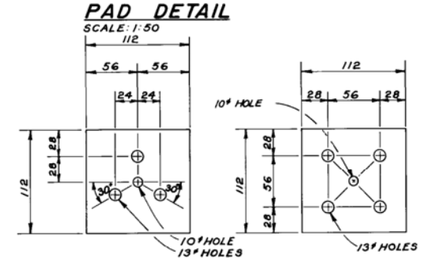
GENERAL LAYOUT
SCALE: 1:200

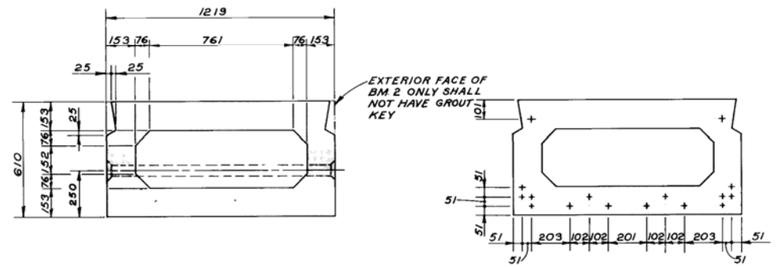


ALL INTERIOR FACES
SCALE: 1:10



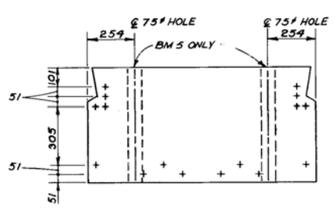
PAD DETAIL
SCALE: 1:50



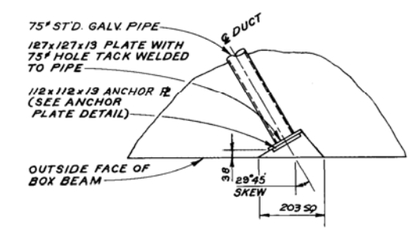


TYPICAL SECTION
SCALE: 1:15

SECTION 1 (39)
SCALE: 1:15
SHOWING STRAND SPACING ONLY

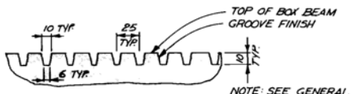


SECTION 2 (39)
SCALE: 1:15
SHOWING STRAND SPACING ONLY

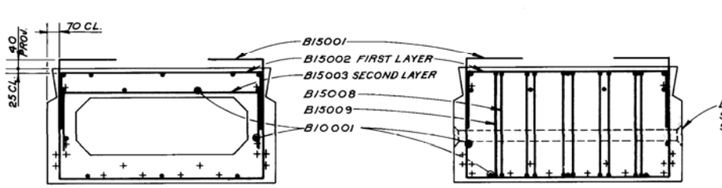


EXTERIOR BRIDGE FACE ONLY

PIPE SLEEVE DETAIL
SCALE: 1:10

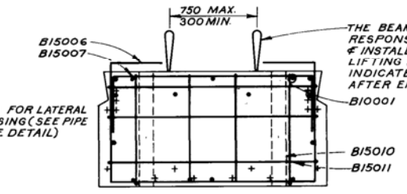


GROOVE FINISH DETAIL
SCALE 1:30



SECTION 3 (39)
SCALE: 1:15

SECTION 4 (39)
SCALE: 1:15



SECTION 5 (39)
SCALE: 1:15

BM 2 BM 4

ANCHOR PLATE DETAIL
SCALE: 1:30

REFERENCE DRAWINGS
DWG. NO. 40 - PRECAST BOX BEAM CENTRE SPAN
DWG. NO. 41 - BEARING LAYOUT & DETAILS

B-5425

AS BUILT
APPROVED: E.A.K.

GENERAL NOTES

1. REINFORCING STEEL SHALL HAVE A MIN. CLEAR COVER OF 25mm
2. DIMENSIONAL TOLERANCES SHALL BE: WIDTH ± 3mm LENGTH ± 6mm
3. ALL EXPOSED EDGES SHALL BE CHAMFERED 19mm
4. H.T.S. STRANDS FOR: 9616 BM. 16-13 WITH INITAL FORCE OF 1284 KN/STRAND
   17825 BM. 28-13 WITH INITAL FORCE OF 1284 KN/STRAND
5. LATERAL STRESSING FOR: 9616 BM. 3-10 H.T.S. STRANDS, INITAL FORCE OF 71.5 kN/STRAND
   17825 BM. 4-10 H.T.S. STRANDS, INITAL FORCE OF 71.5 kN/STRAND
6. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 35 MPa AT 28 DAYS & SHALL REACH A COMPRESSIVE STRENGTH @ STRESS TRANSFER OF 28 MPa.
7. TOPS OF ALL BOX BEAMS SHALL BE GIVEN A GROOVE FINISH
8. ERECTION LOOPS SHALL BE CUT FLUSH WITH CONC. AFTER ERECTION.
9. CONSTRUCTION SEQUENCE:
   A. ERECTION OF UNITS
   B. CONNECT SHEAR TIES
   C. LATERAL STRESSING
   D. GROUTING LATERAL STRESS DUCTS
   E. PLACING ANCHOR RODS,
   F. GROUTING KEYS
10. MINIMUM YIELD STRENGTH FOR REINFORCING STEEL BARS SHALL BE: 300 MPa.

NO	REVISIONS	DATE	APP

29/9/00
OUT
29/9/00
ENGINEER'S SEAL

DILLON Consulting Engineers & Planners

DESIGNED BY: F.A.K.	DRAWN BY: C.R.B.
CHECKED BY: L.D.M.	DATE: 80-08-25
APPROVED BY:	DATE: 29/9/00

THE CITY OF WINNIPEG
WORKS & OPERATIONS
STREETS & TRANSPORTATION

STURGEON CREEK BRIDGE ON PORTAGE AVENUE
NORTH STRUCTURE
PRECAST BOX BEAM
END SPAN - 9.616 M

AUTHORIZED BY: L. Chu, P.Eng. DATE 1980-08-25
ACCEPTED BY: A. Hewitt L.G. DATE 80-10-22
SCALE 1:25 OR AS NOTED
DRAWING NO. B178-80-39

PROJ. NO. 7580-02

NS-10