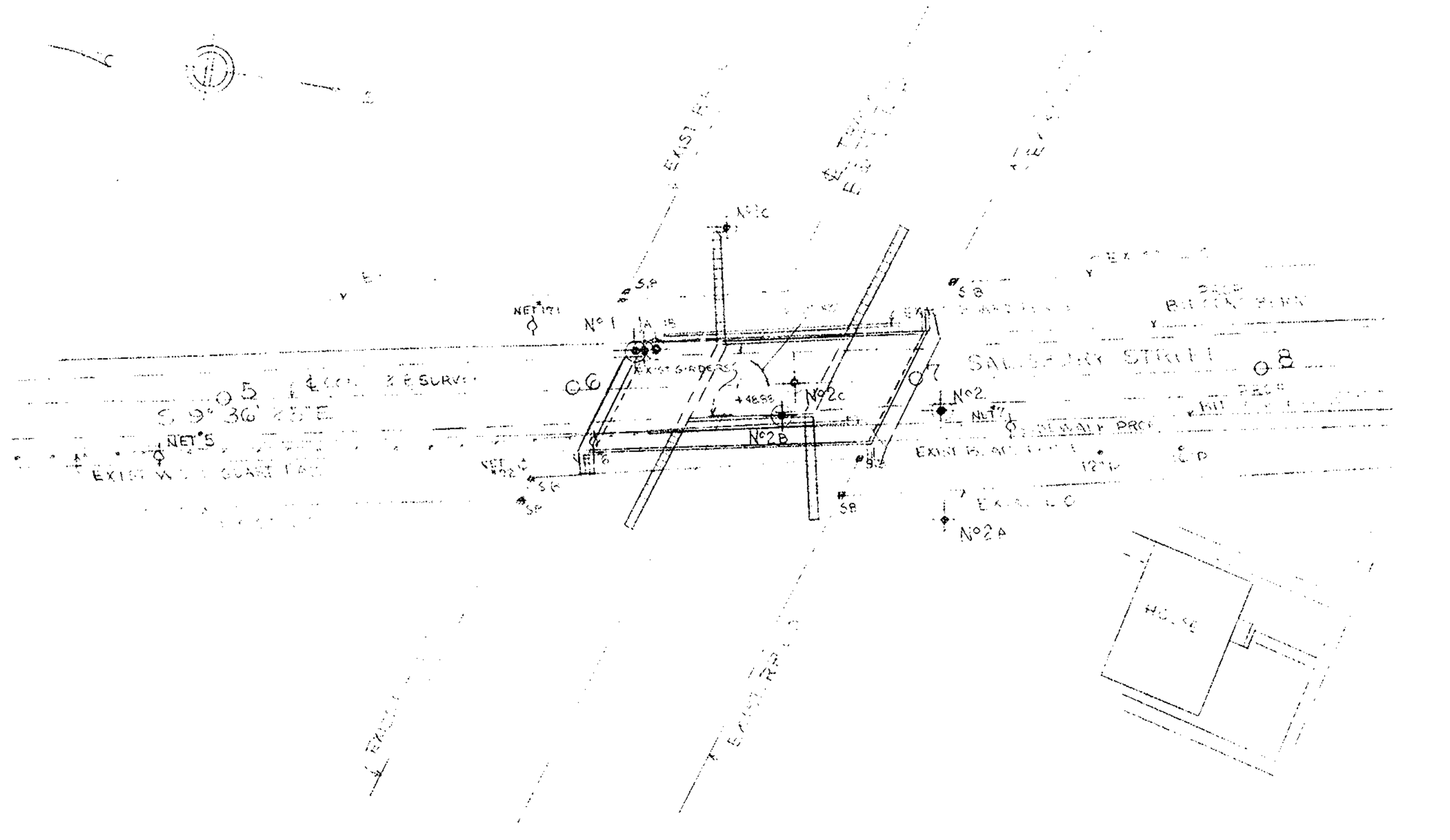
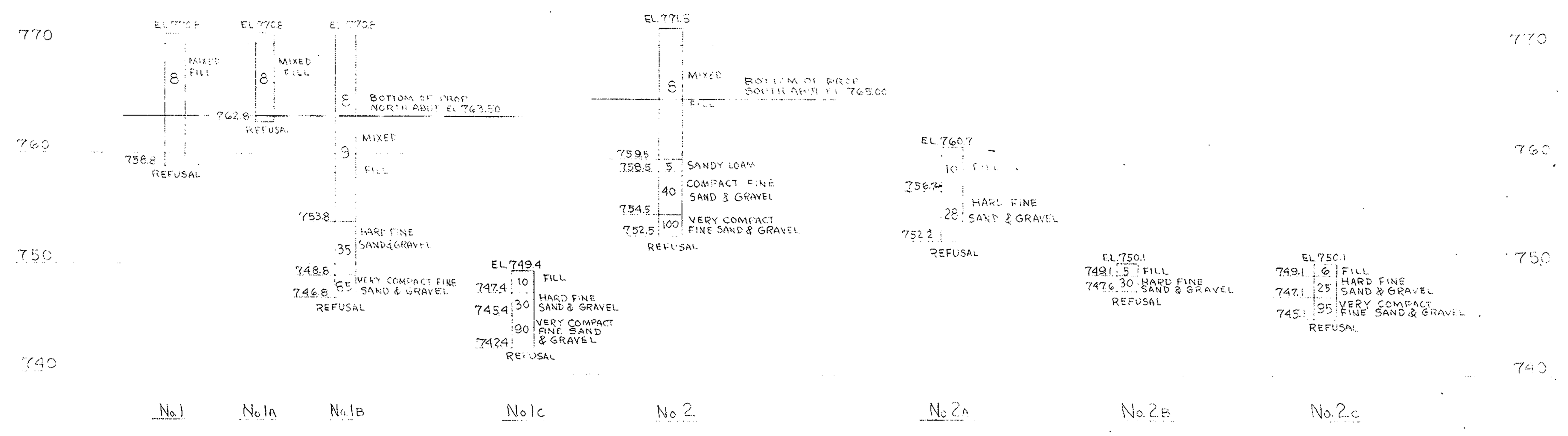
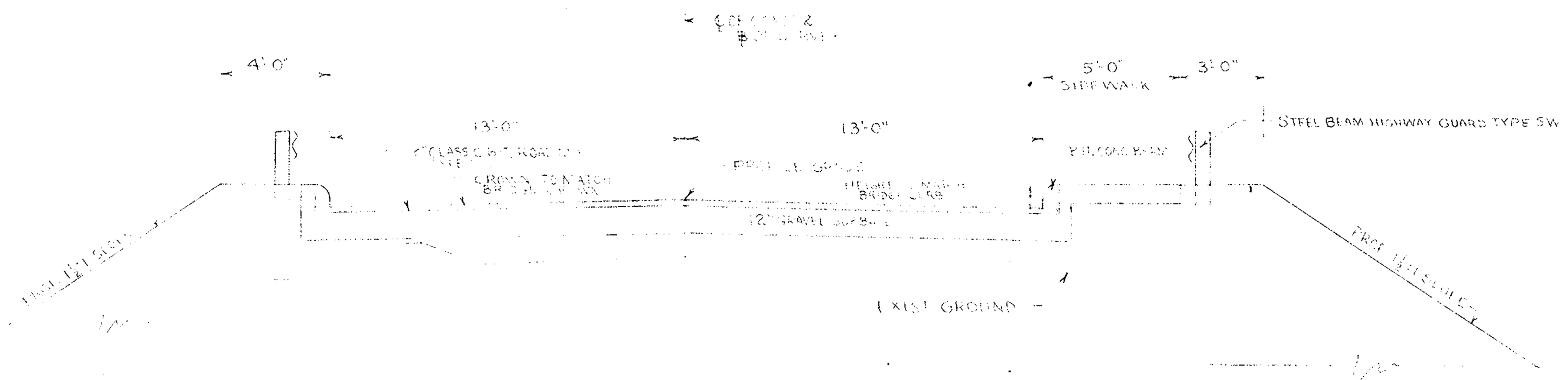
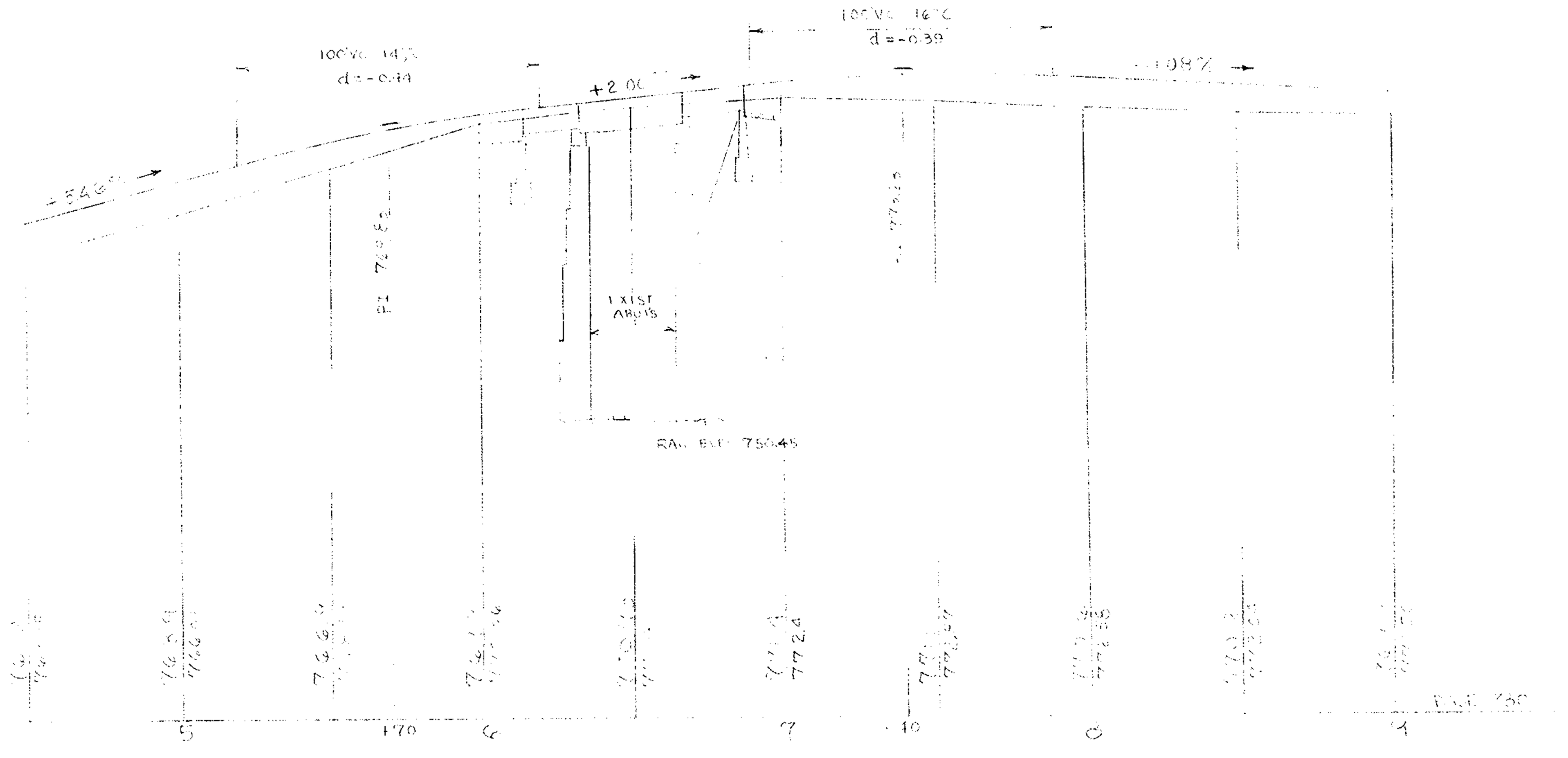


KEY PLAN

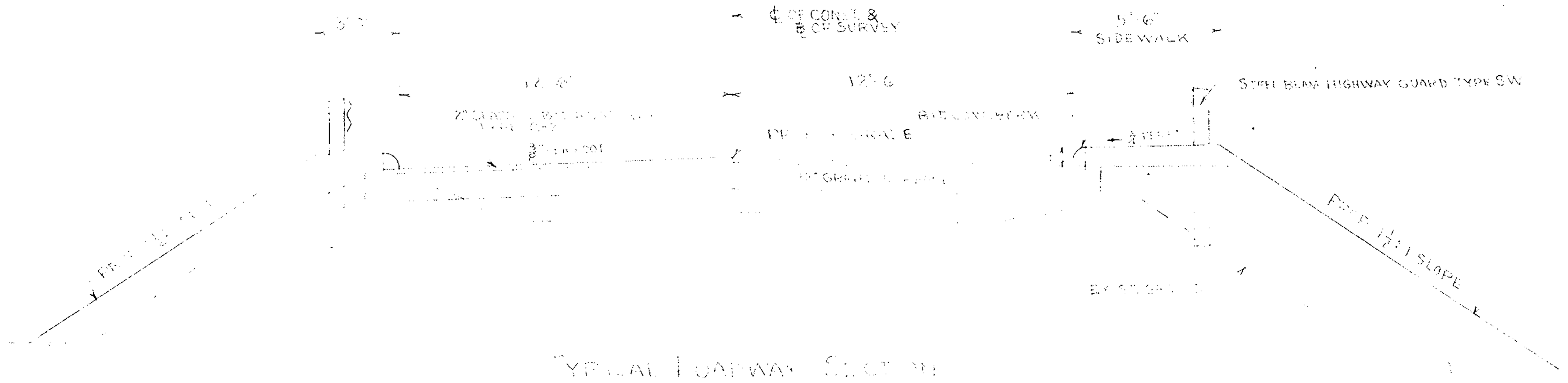


BORING DATA
SCALE $\frac{1}{8}$"=1'-0"
BORINGS TAKEN APR. 1958 BY JOHN J. BOYLE





PROFILE



TYPICAL ROADWAY SECTION

GENERAL NOTES

DESIGN

IN ACCORDANCE WITH THE ... FOR H 20-44 LOADING.

DATE

TO BE ... ON THE INSIDE FACES OF THE NORTHWESTERLY AND SOUTH-EA... END POSTS. FOR SIZE & CHARACTER OF NUMERALS SEE ANOTHER SHEET.

DIMENSIONS

ALL DIMENSIONS AND DETAILS SHOWN ... STRUCTURE MUST BE CHECKED IN THE FIELD BY THE CONTRACTOR.

FOUNDATIONS

FOUNDATIONS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED IN CONSTRUCTION.

BENCH MARK

M.D.C. STONE BOUND STA. 7+00 RIGHT ELEVATION 767.63

REINFORCEMENT

ALL REINFORCING STEEL BARS SHALL CONFORM TO A.S.T.M. SPECIFICATION A-305. UNLESS OTHERWISE SHOWN ON THE PLANS, REINFORCING BARS SHALL BE LAPPED 20 DIAMETERS TO MAKE A SPLICE, EXCEPT THAT MAIN REINFORCING BARS NEAR THE TOP OF SLABS AND BEAMS HAVING MORE THAN 12 INCHES OF CONCRETE UNDER THE BARS SHALL BE LAPPED 35 DIAMETERS TO MAKE A SPLICE.

BORING NOTES

LOCATIONS OF BORINGS SHOWN ON KEY PLAN THUS: ⌖ No. 2. BORINGS TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW NATURE OF MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION. FIGURES IN COLUMNS INDICATE BLOWS PER FOOT ON 1"⌀ PIPE PRODUCED BY 30 INCH FALL OF 140 POUND HAMMER. BORING SAMPLES MAY BE SEEN AT THE DEPARTMENT'S LABORATORY IN THE MAINTENANCE BUILDING ON ROUTE No. 9 IN WELLESLEY.

ESTIMATED QUANTITIES
(NOT GUARANTEED)

BRIDGE EXCAVATION	600 CU. YDS.
CLASS B ROCK EXCAVATION	5 CU. YDS.
GRAVEL BORROW	50 CU. YDS.
CLASS I BIT. CONC. PAVEMENT TYPE I-1	50 TONS
CEMENT FOR POINTING	0.5 BARRELS
REMOVAL OF PRESENT SUPERSTRUCTURE	1 LUMP SUM
BRIDGE STRUCTURE (H-18-4)	1 LUMP SUM

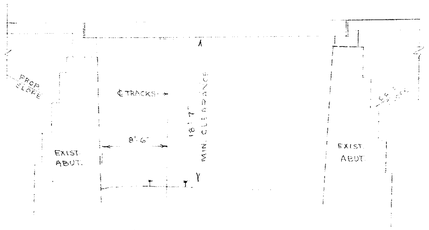
AUGUST 2, 1958 ISSUED FOR CONSTRUCTION

DES. HOLDEN
DR. HOLDEN
CHK. FRYE
ARCH.

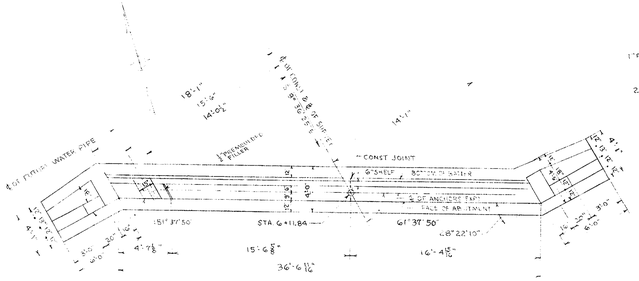
THE COMMONWEALTH OF MASSACHUSETTS
PROPOSED BRIDGE
HOLDEN
SALISBURY STREET
OVER
BOSTON & MAINE R.R.
SCALES AS NOTED
OFFICE OF
DEPARTMENT OF PUBLIC WORKS
100 NASHUA ST. — BOSTON MASS.
AUGUST 1958

J. H. Kane
BRIDGE ENGINEER

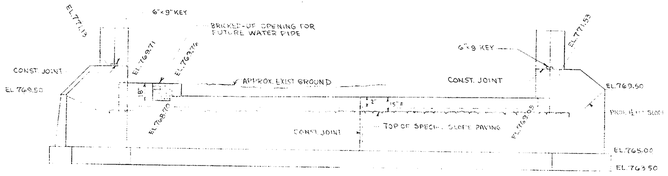
E. J. McCarthy
CHIEF ENGINEER



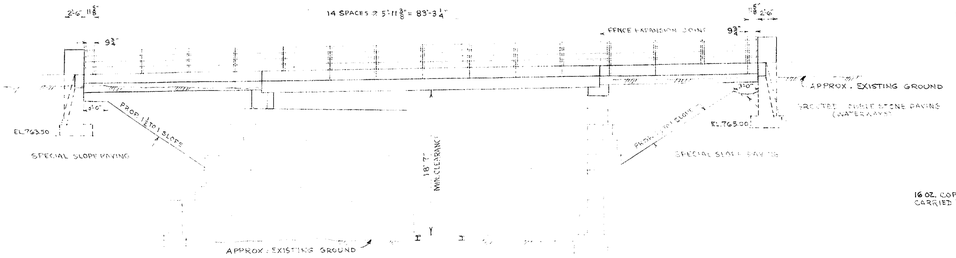
SQUARE LONGITUDINAL SECTION
SCALE $\frac{1}{8}$"=1'-0"



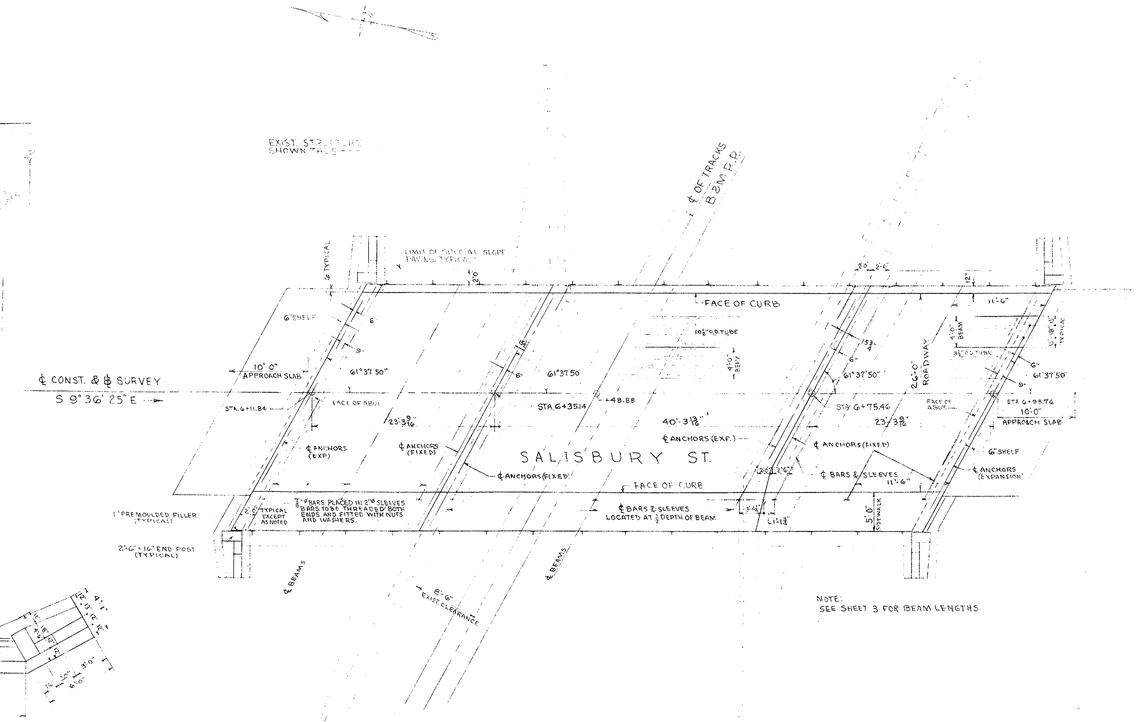
PLAN OF NORTH ABUTMENT
SCALE $\frac{1}{16}$"=1'-0"



ELEVATION OF NORTH ABUTMENT
SCALE $\frac{3}{16}$"=1'-0"

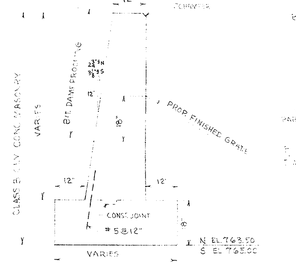


WESTERLY ELEVATION
EASTERLY ELEVATION OPPOSITE HAND
SCALE $\frac{1}{16}$"=1'-0"

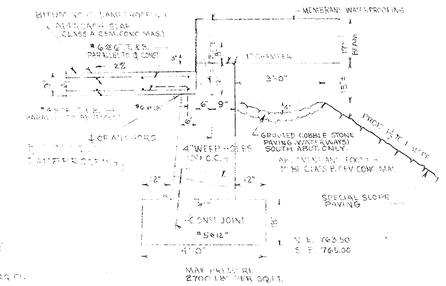


PLAN
SCALE $\frac{1}{8}$"=1'-0"

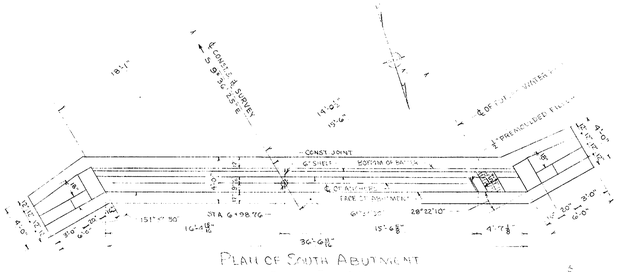
NOTE:
SEE SHEET 3 FOR BEAM LENGTHS



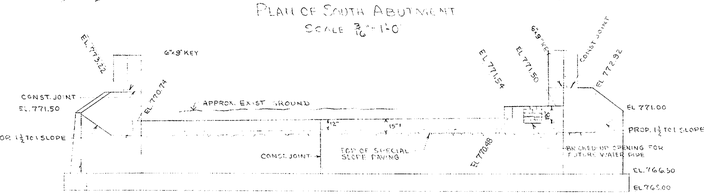
WINGWALL SECTION
SCALE $\frac{1}{2}$"=1'-0"



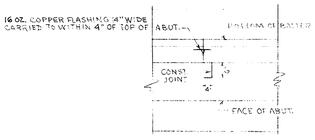
ABUTMENT SECTION
SCALE $\frac{1}{2}$"=1'-0"



PLAN OF SOUTH ABUTMENT
SCALE $\frac{3}{16}$"=1'-0"



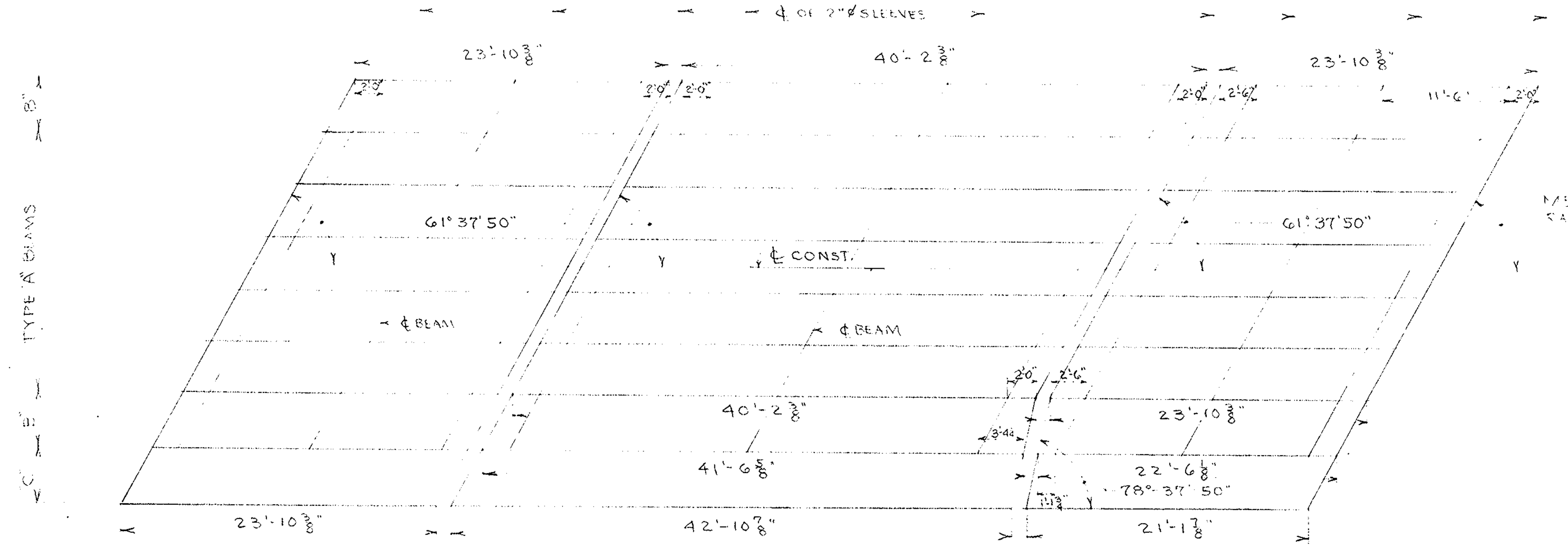
ELEVATION OF SOUTH ABUTMENT
SCALE $\frac{3}{16}$"=1'-0"



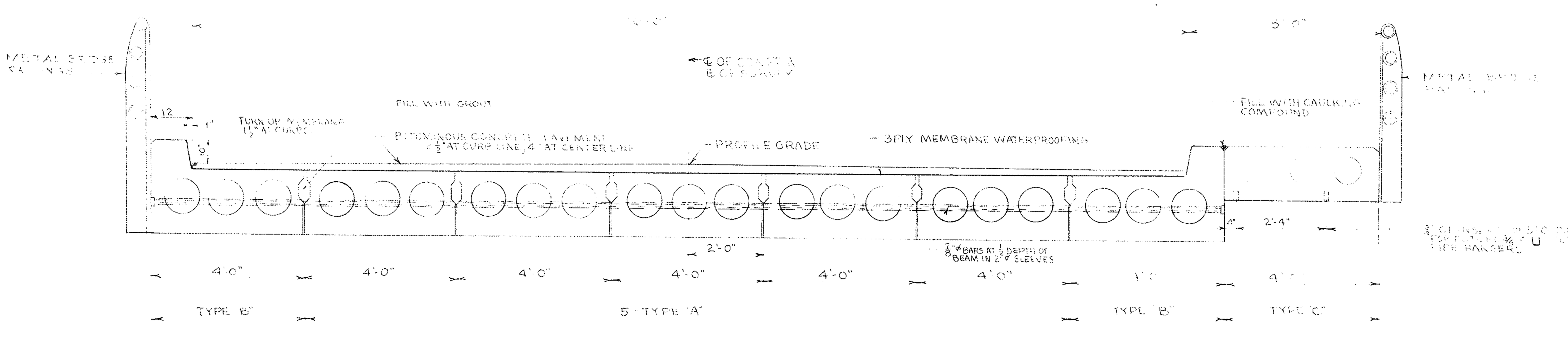
DETAIL OF ABUTMENT CONSTRUCTION JOINT
SCALE $\frac{1}{2}$"=1'-0"

NO.	DATE	DESCRIPTION
	Aug. 7, 1958	ISSUED FOR CONSTRUCTION

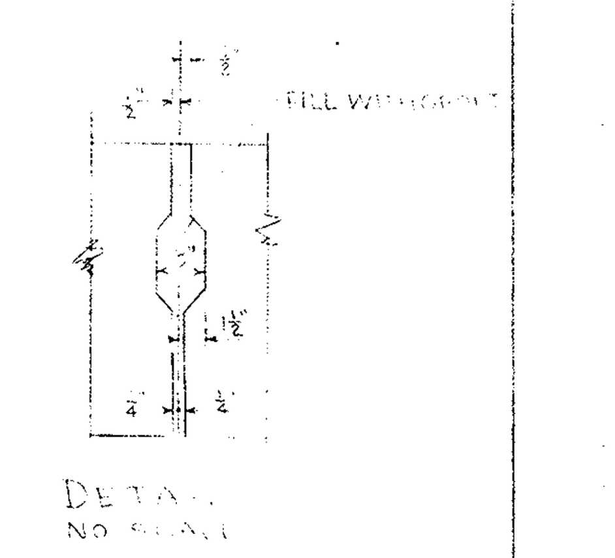
SHEET 2 OF 4 SHEETS



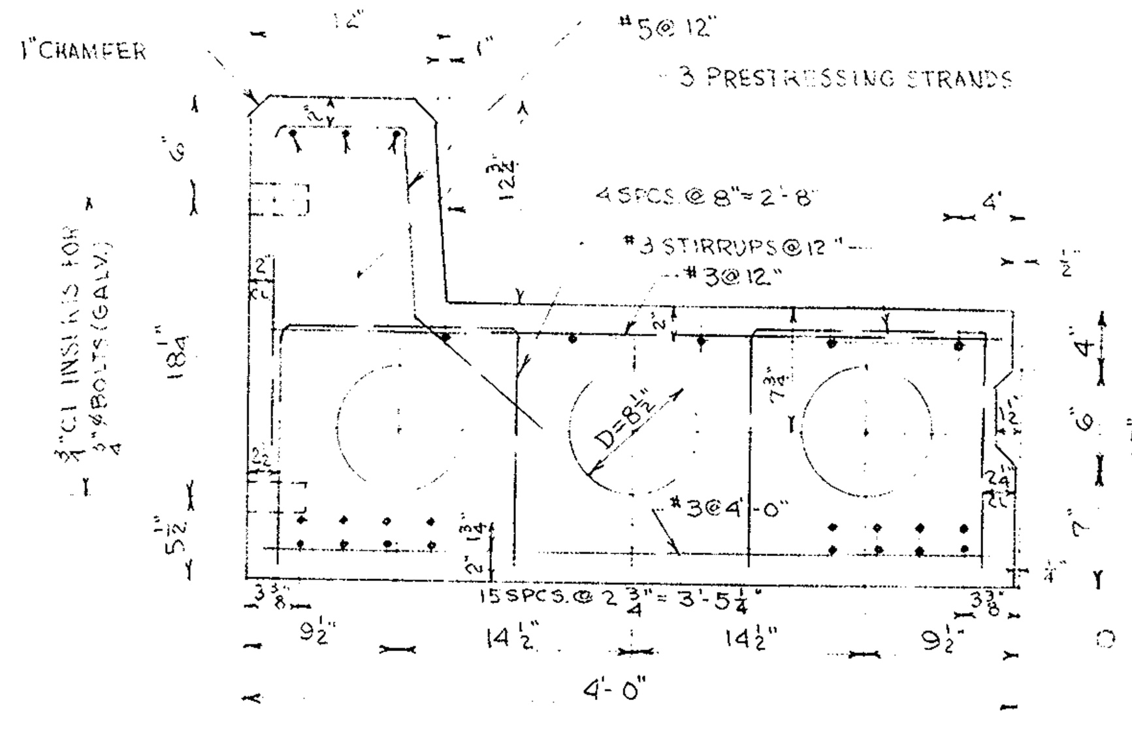
BEAM DIAGRAM
SHOWING LENGTHS
NO SCALE



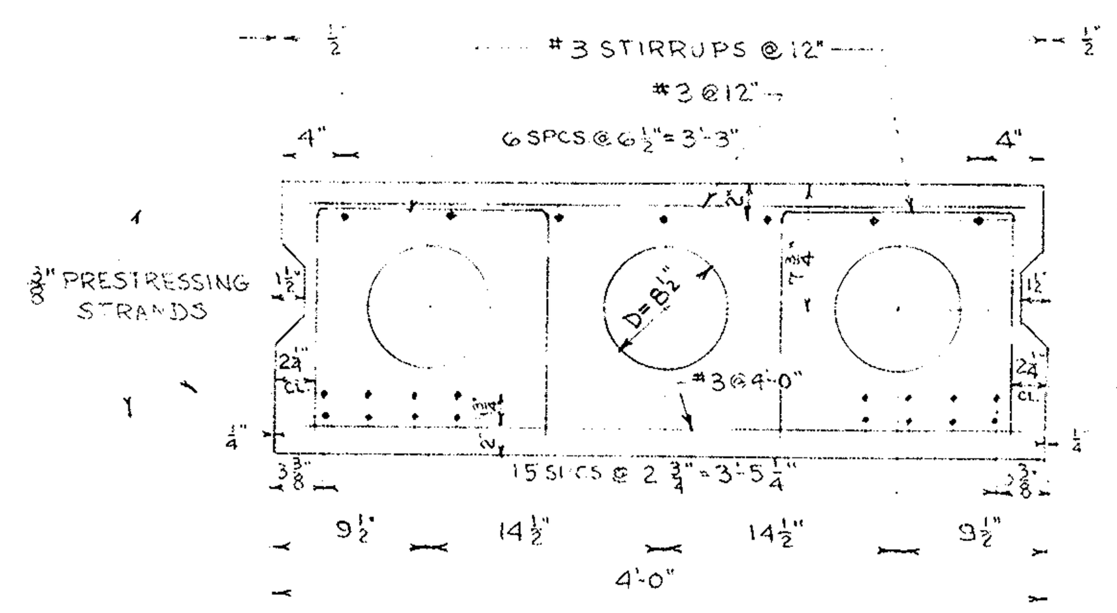
CROSS SECTION
SCALE $\frac{1}{2}$" = 1'-0"



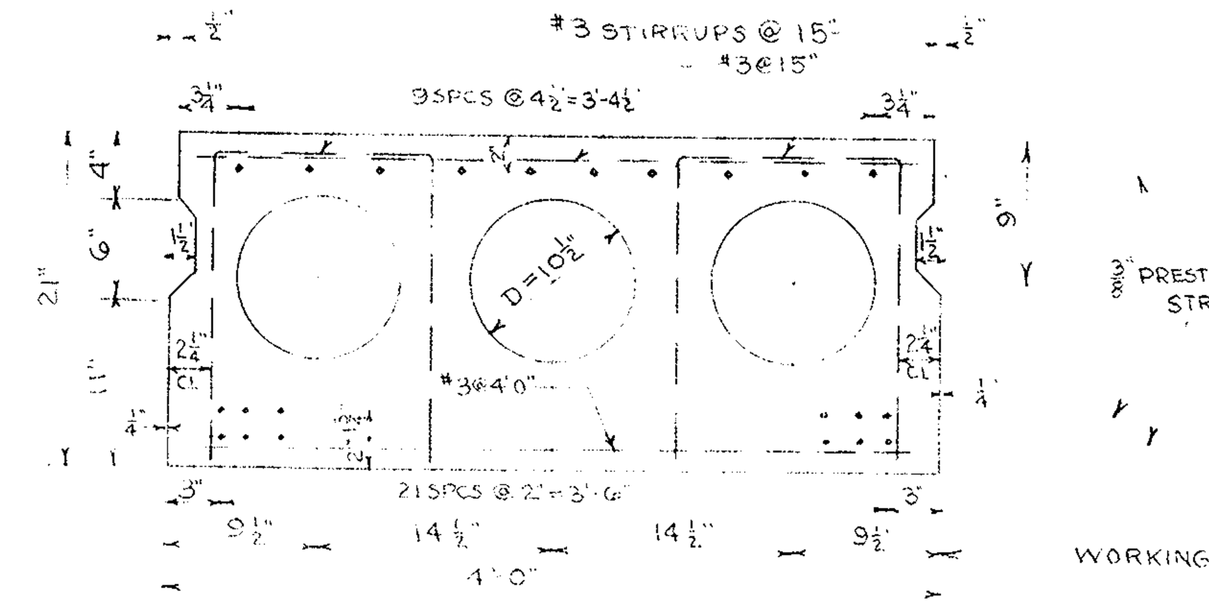
DETAIL
NO SCALE



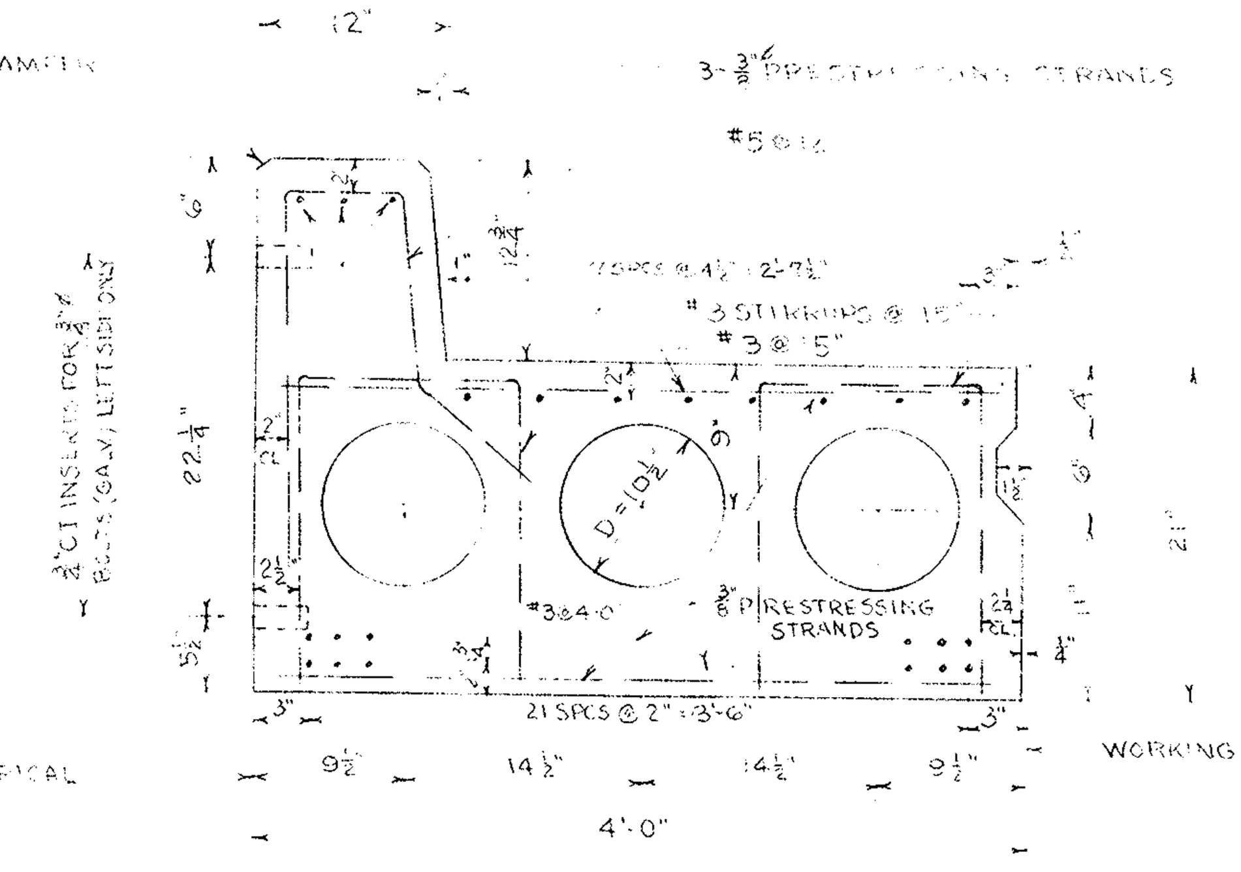
TYPE "B" BEAM
APPROACH SPANS
SCALE 1" = 1'-0"



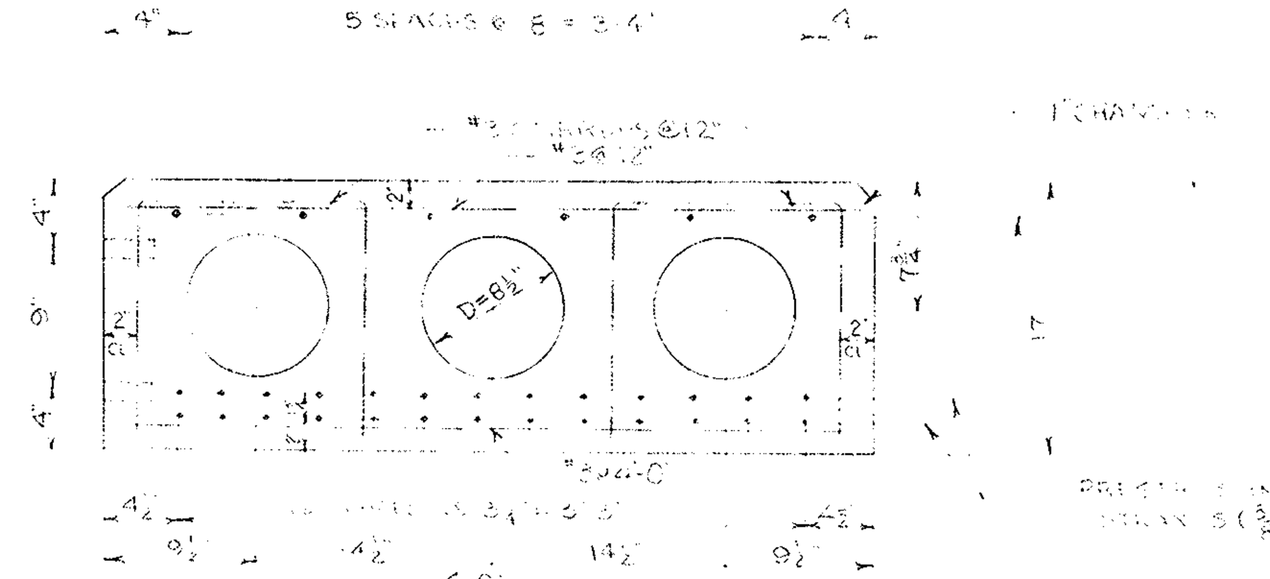
TYPE "A" BEAM
APPROACH SPANS
SCALE 1" = 1'-0"



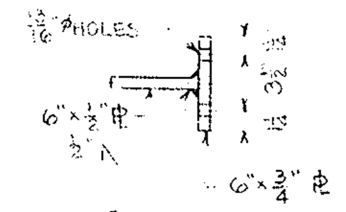
TYPE A BEAM
MAIN SPAN
SCALE 1" = 1'-0"



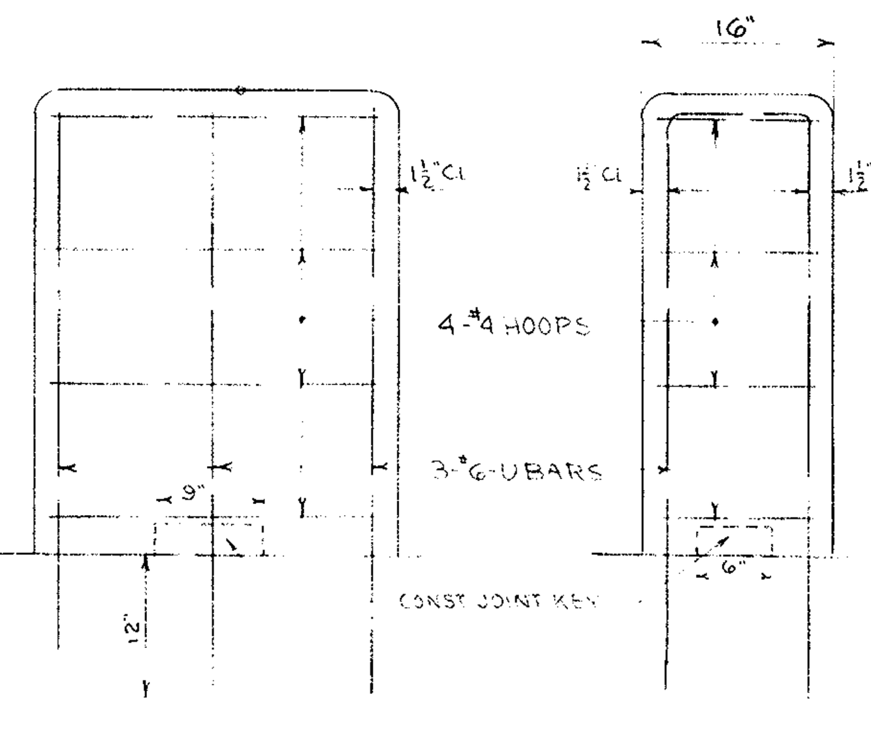
TYPE "B" BEAM
MAIN SPAN
SCALE 1" = 1'-0"



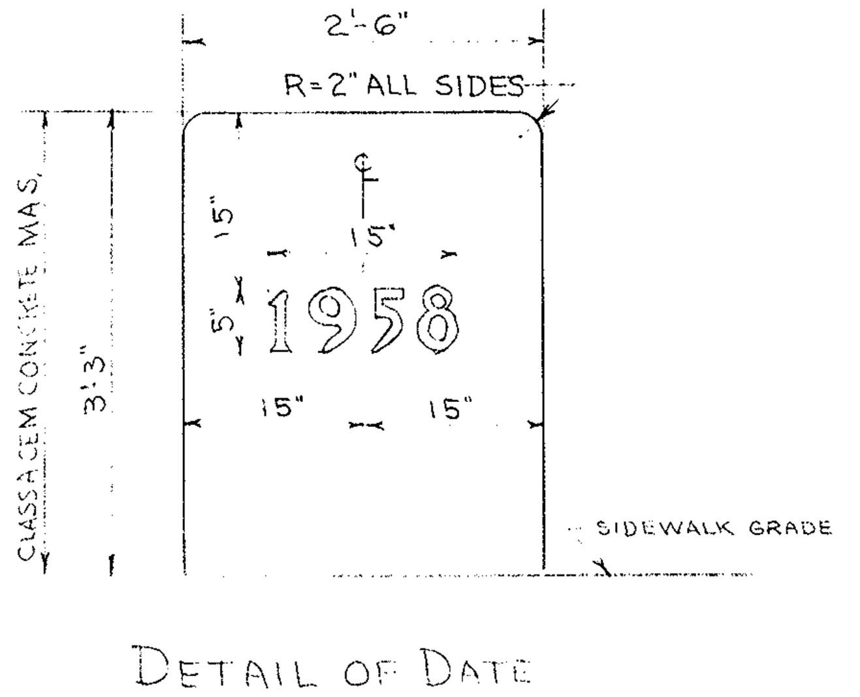
TYPE "C" BEAM
SCALE 1" = 1'-0"



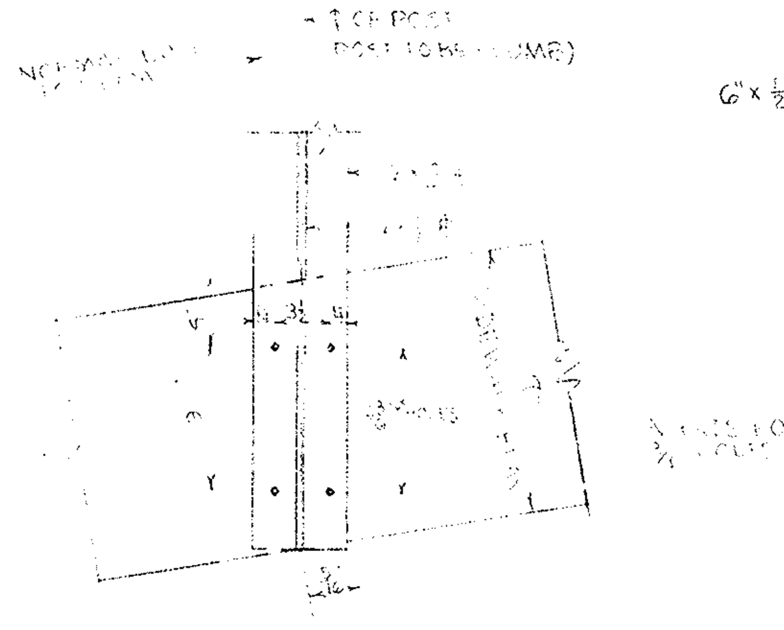
SECTION A-A
SCALE 1" = 1'-0"



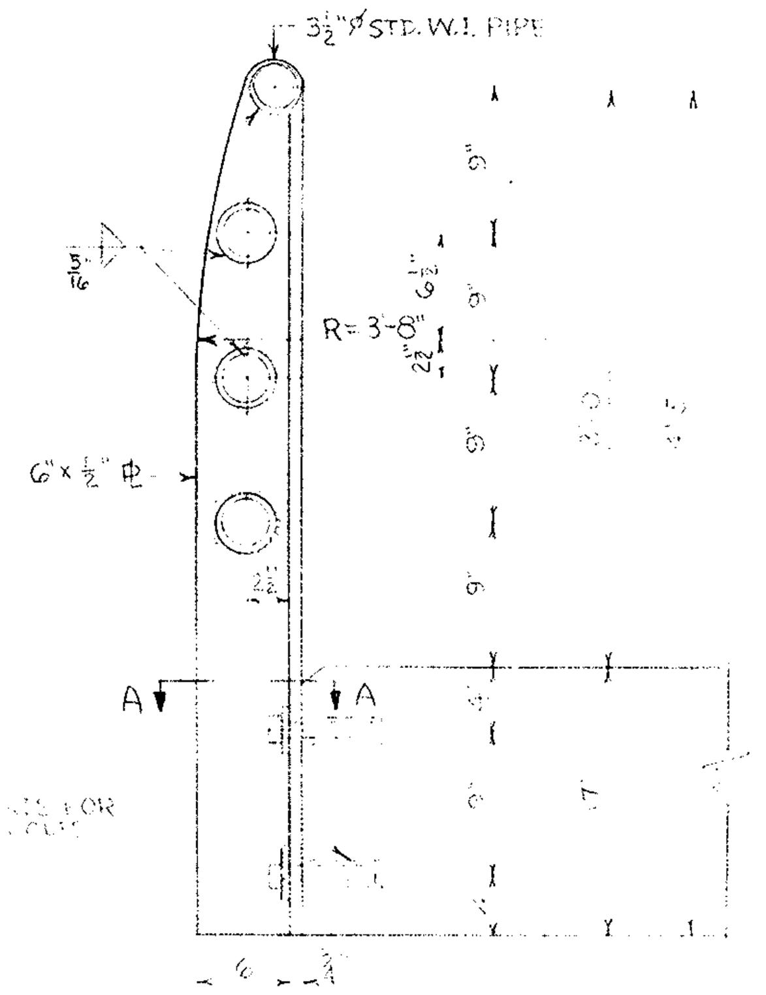
END POST DETAIL
SCALE $\frac{3}{4}$" = 1'-0"



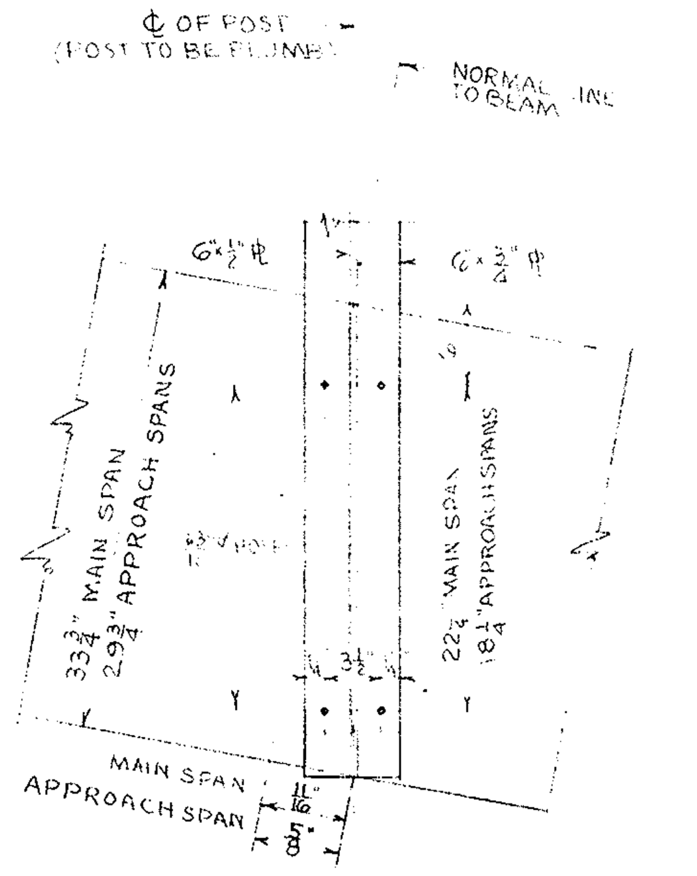
DETAIL OF DATE
PLACED ON N.W. & S.E. END POST
SCALE $\frac{3}{4}$" = 1'-0"



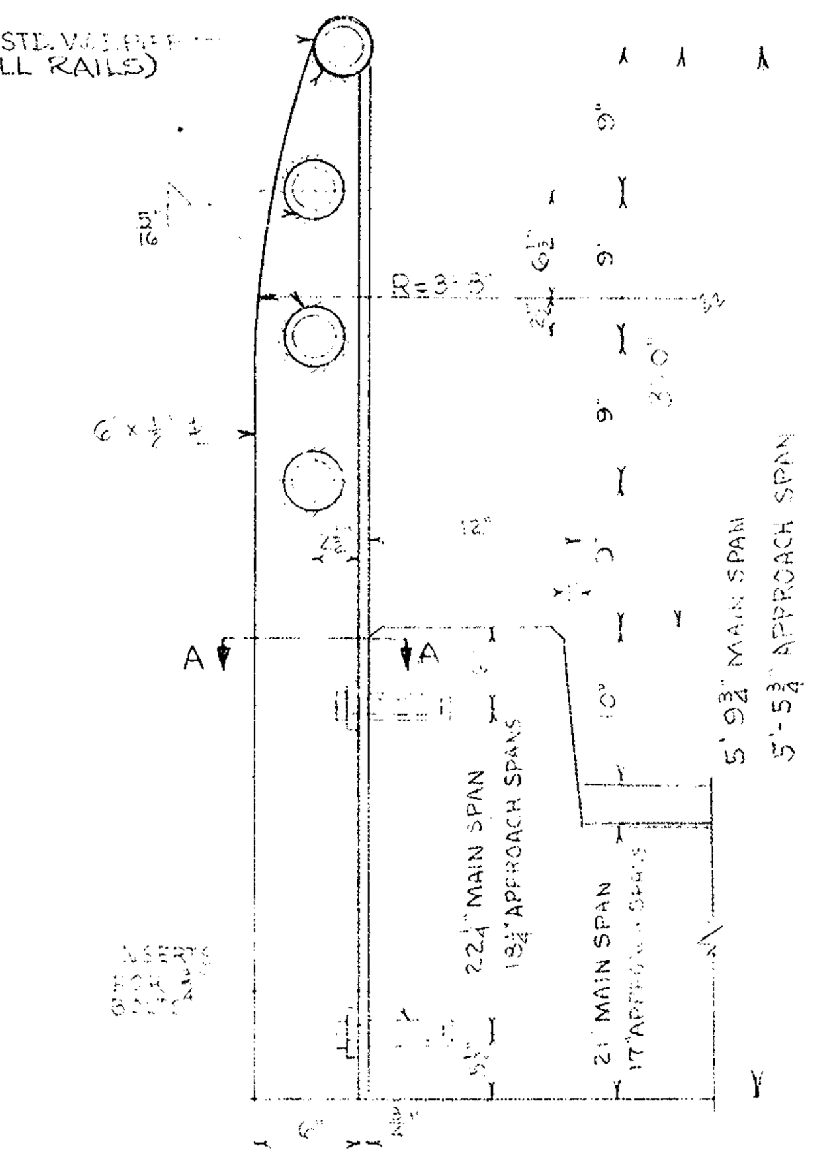
ELEVATION OF POST
SIDEWALK BEAM
NO SCALE



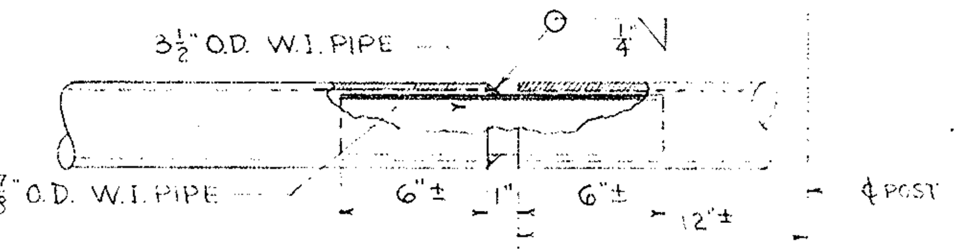
METAL BRIDGE RAILINGS



ELEVATION OF POST
TYPE "B" EXTERIOR BEAM
NO SCALE



METAL BRIDGE RAILINGS
TYPE "B" EXTERIOR BEAM
SCALE 1" = 1'-0"



FENCE EXPANSION JOINT DETAIL
SCALE $1\frac{1}{2}$" = 1'-0"

PRESTRESSED CONC BEAM DATA
ESTIMATED QUANTITIES

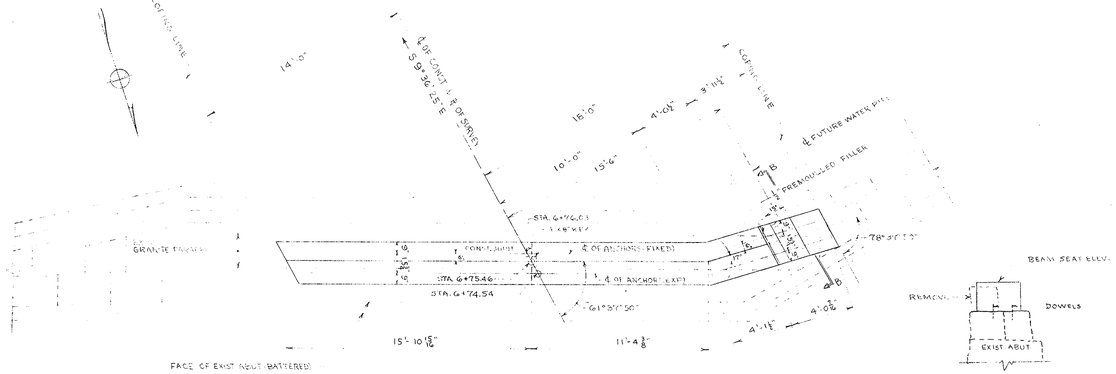
TYPE OF BEAM	TOTAL ℄ LENGTH OF BEAMS	WEIGHT OF $\frac{3}{8}$"Ø STRANDS
A MAIN SPAN	200'-11$\frac{7}{8}$"	2974 LBS.
B MAIN SPAN	81'-0$\frac{7}{8}$"	1222 LBS.
A APPROACH SPAN	238'-7$\frac{3}{4}$"	2550 LBS.
B APPROACH SPAN	94'-9$\frac{3}{8}$"	1038 LBS.
C	87'-11$\frac{3}{16}$"	[illegible] LBS.
TOTAL WEIGHT		[illegible] LBS.

NOTES FOR PRESTRESSING
INITIAL TENSION PER $\frac{3}{8}$"Ø STRAND = 14000 LBS.
MINIMUM STRENGTH OF CONCRETE = 5000 P.S.I.
TENSIONING OF STRANDS HELD UNTIL CONCRETE ATTAINS A MINIMUM STRENGTH OF 3500 P.S.I.

DATE	DESCRIPTION
AUG. 2, 1958	ISSUED FOR CONSTRUCTION

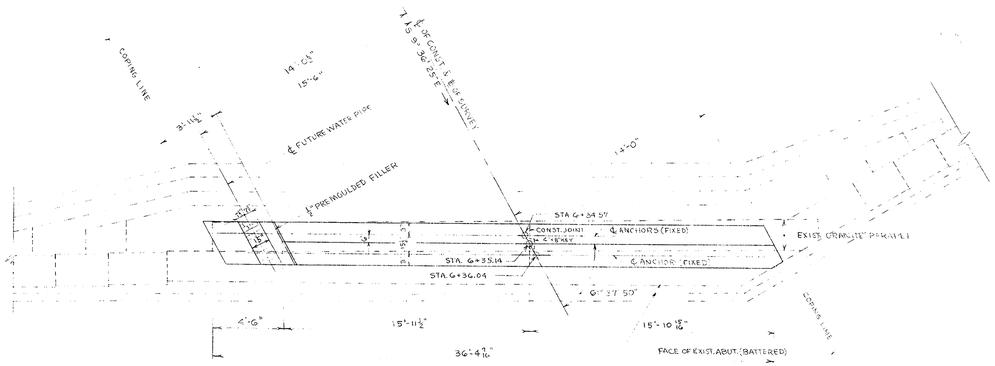
USE ONLY PRINTS OF LATEST DATE

SHEET 3 OF 4 SHEETS BRIDGE No. H-18-4

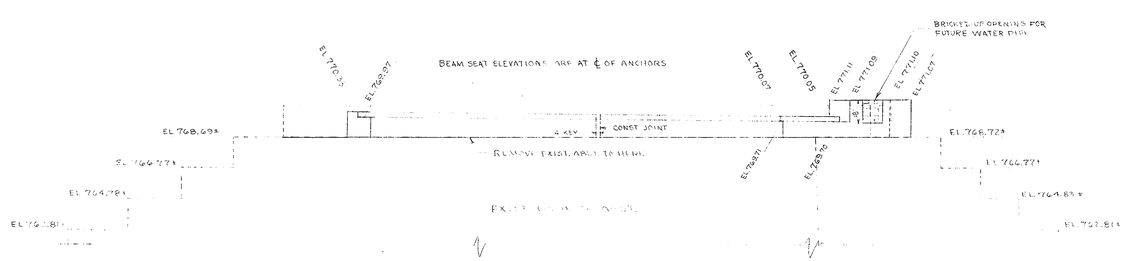


PLAN OF SOUTH PIER
SCALE ¼"=1'-0"

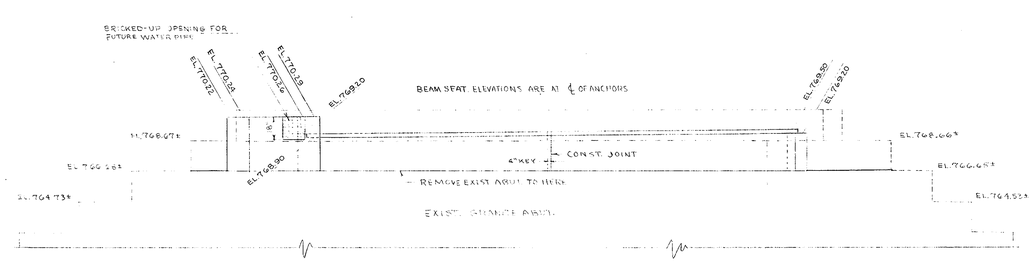
SECTION B-B
SCALE ¼"=1'-0"



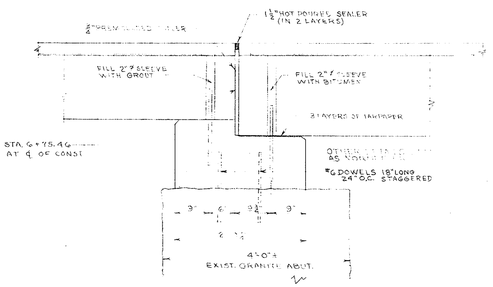
PLAN OF NORTH PIER
SCALE ¼"=1'-0"



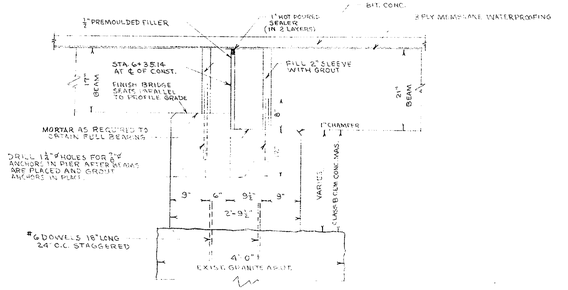
ELEVATION OF SOUTH PIER
SCALE ¼"=1'-0"



ELEVATION OF NORTH PIER
SCALE ¼"=1'-0"



SOUTH PIER BEARING DETAILS
(LOOKING WEST)
SCALE ¾"=1'-0"



NORTH PIER BEARING DETAILS
LOOKING EAST
SCALE ¾"=1'-0"

DATE	DESCRIPTION
AUG. 2, 1958	ISSUED FOR CONSTRUCTION
USE ONLY	