

BOARD OF WAYNE COUNTY ROAD COMMISSIONERS

DETROIT, MICHIGAN

MICHAEL J. O'BRIEN

WILLIAM E. KREGER

CHARLES L. WILSON

INDEX OF SHEETS

1. TITLE SHEET
2. BILL OF MATERIAL
3. GENERAL DRAWING
4. STRUCTURE DETAILS

STANDARD PLANS

46L PRECAST CONCRETE PILE

NOTE

WHERE THE ITEMS LISTED UNDER "STANDARD PLANS" ARE CALLED FOR ON THE DETAILED PLANS THEY ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE DRAWING INDICATED OPPOSITE THE ITEM.

PLANS OF PROPOSED BRIDGE WARRENDALE ROAD CROSSING OF MIDDLE ROUGE RIVER EAST OF TELEGRAPH ROAD WAYNE COUNTY JOB NO. 1250

DEARBORN TOWNSHIP

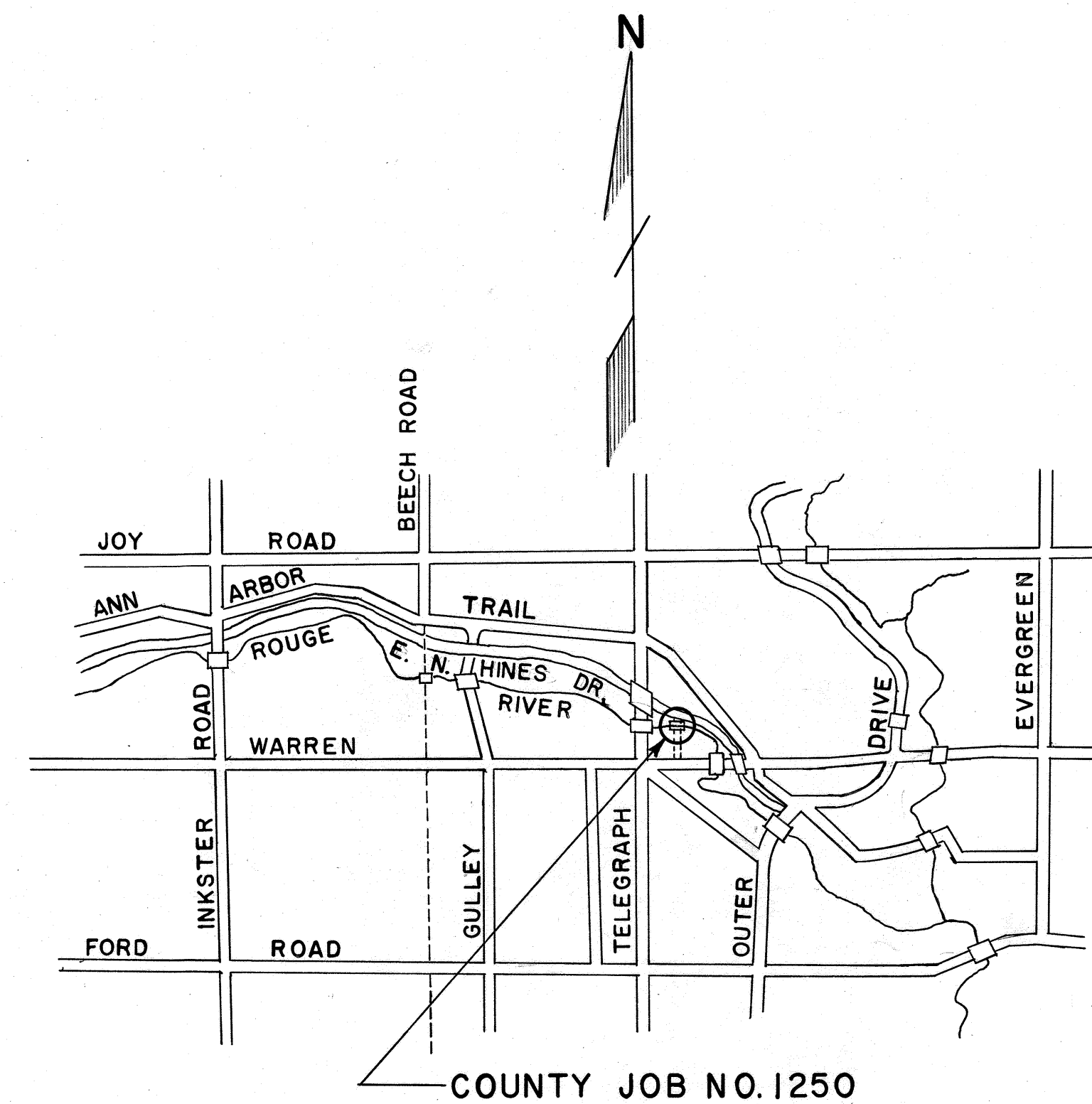
WAYNE COUNTY

GENERAL NOTES

Except where otherwise indicated on these Plans or in the Proposal and Supplemental Specification contained therein all material and workmanship shall be in accordance with the Board of County Road Commissioners of the County of Wayne's General Specifications for the Construction of Roads, Bridges and other Structures, 1951 Edition.

The Design of this Structure is based on the A.A.S.H.O. Standard Specifications for Highway Bridges, H20-44 Loading.

All exposed concrete corners shown square on the plans shall be beveled with $\frac{3}{4}$ " triangular moulding except as otherwise noted.



STATE FILE	BRIDGE	COUNTY JOB 1250
	ROAD	
STATE PROJECT		ISSUE NO. 1
DATE 4-10-59		SHEET NO. 1

REVISIONS			DRAWN BY BRACKLEY	CHECKED BY Connors	DATE 4-8-59	APPROVED F. K. Chapin ENGINEER OF BRIDGES AND STRUCTURES
			CORRECT			APPROVED J. W. Smith COUNTY HIGHWAY ENGINEER

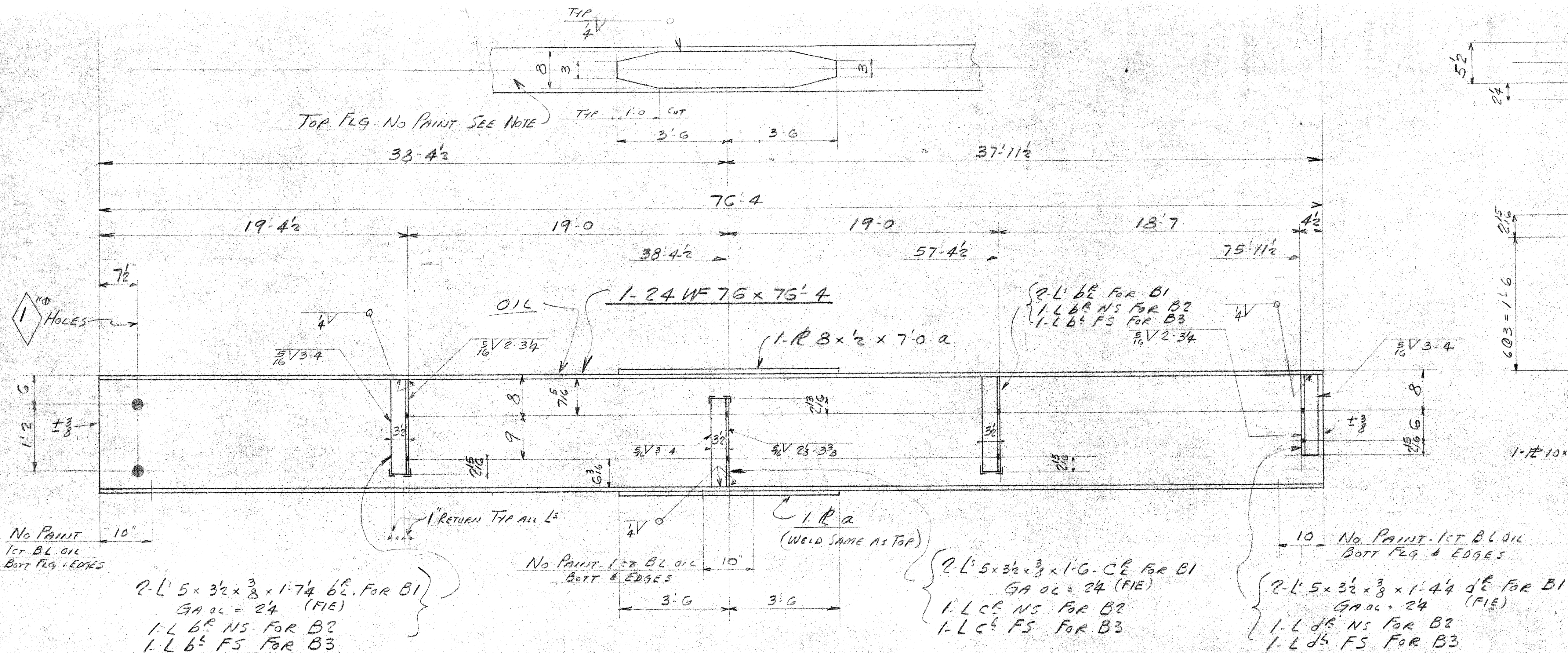
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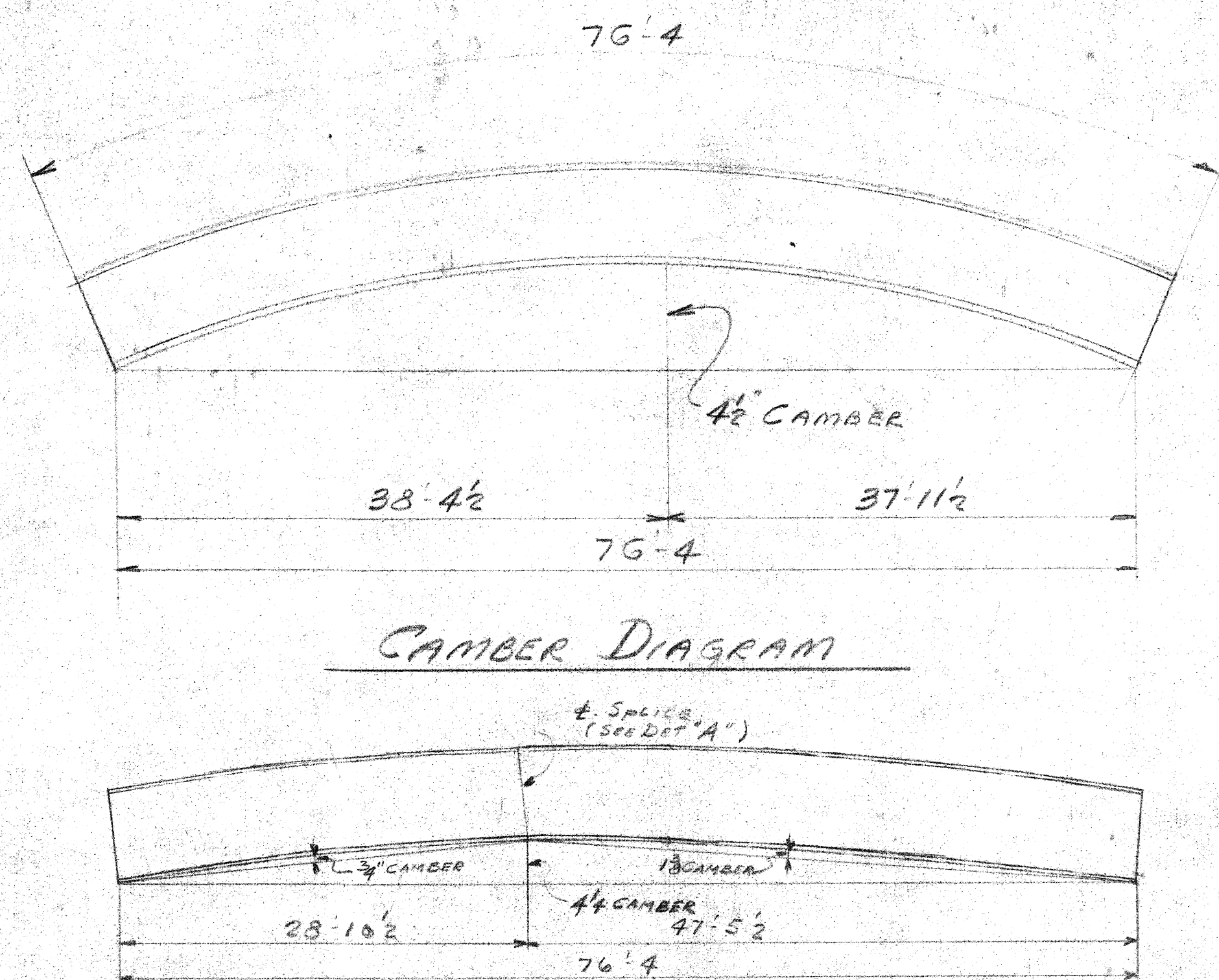
WARRENDALE — MIDDLE ROUGE RIVER
(EAST OF TELEGRAPH ROAD)
TITLE SHEET

MICROFILMED

Job 1250 - #1



4-BEAMS-2B1
ONE BEAM-2B2
ONE BEAM-2B3



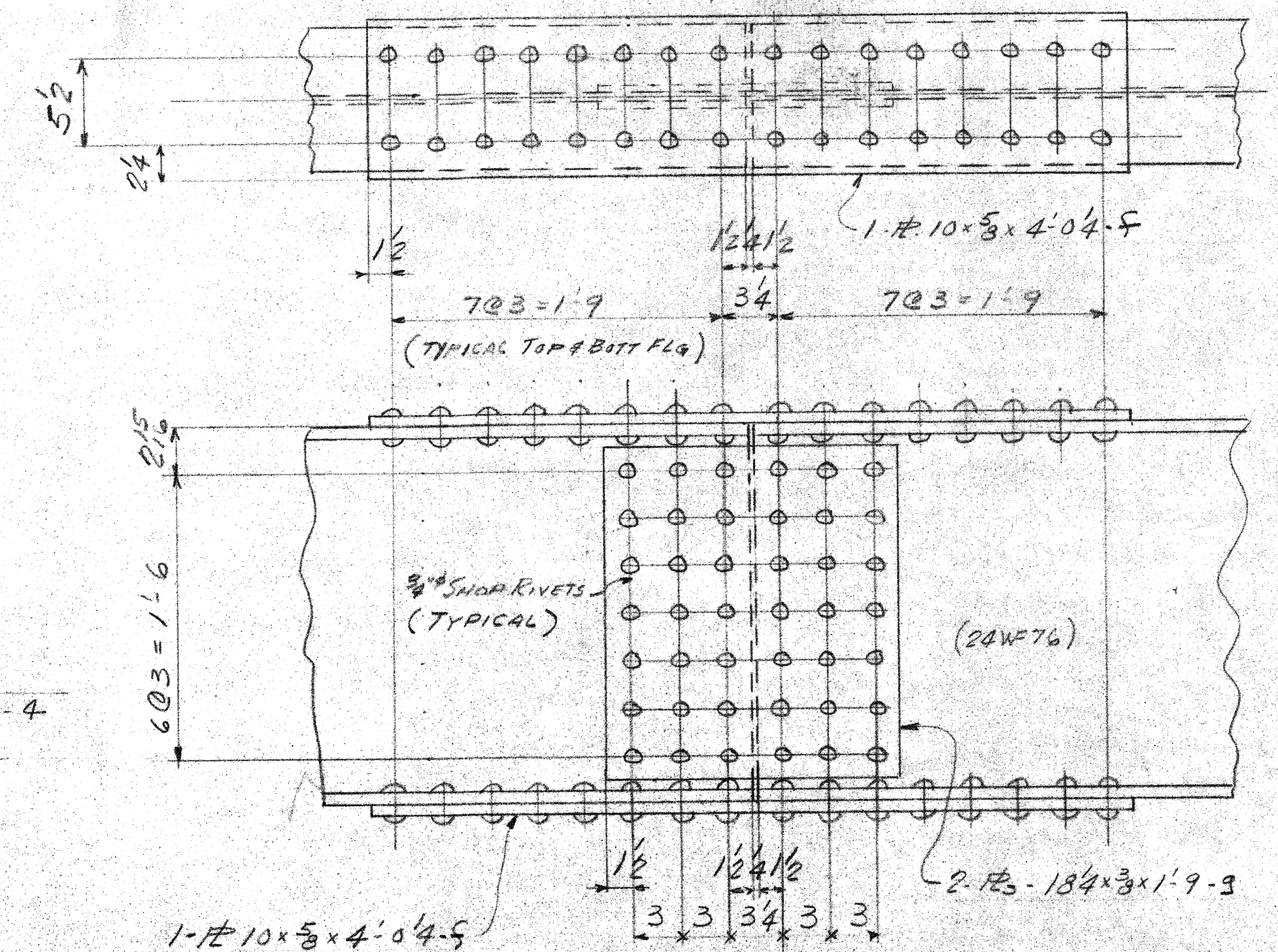
SHOP NOTES

HOLES 1 1/8" UN
WELD AS NOTED
PAINT 1st MSHD MIX "A" EXCEPT
TOP FLG & PORTIONS OF BOTTL FLG
WHERE NOTED TO BE COATED WITH
1st BOILED LINSEED OIL ONLY

ERECTION SH E1

FIELD BOLTS

80-3/4" M.B. x 2" LG.



MARK	NO.	SECTION	LENGTH	REMARKS	WT.
		4-BEAMS-		2B1	
	4	24 WF 76	76'-4	NOT IN	23,205
a	8	18 x 1/2	7'-0		994
BE	16	L 5 x 3 1/2 x 3/8	1'-7 1/4	FIE	267
CE	8	L 5 x 3 1/2 x 3/8	1'-0	FIE	125
DE	8	L 5 x 3 1/2 x 3/8	1'-4 1/4	FIE	113
f	4	10 x 3/8	4'-0 1/4	NOT A PAY ITEM	
g	4	18 x 3/8	1'-9	SHOP SPLICE	
		ONE-BEAM-		2B2	
		ONE-BEAM-		2B3	
	2	24 WF 76	76'-4	NOT IN	11,603
a	4	18			347
BE	4	L			67
CE	2	L			31
DE	2	L			28
				TOTAL	36,480
		FIELD BOLTS			
BO	34	3/4" M.B. x 2" LG.			44
				SHT TOTAL	36,524

PARAGON

CONSTRUCTION COMPANY

44000 GRAND RIVER AVE. - NOVI, MICHIGAN
STRUCTURAL STEEL - MISCELLANEOUS IRON - HIGHWAY BRIDGES
MATERIAL HANDLING RACKS - RAILROAD CAR INSTALLATIONS
MAILING ADDRESS: P.O. BOX 4816 - REDFORD STATION - DETROIT 18, MICHIGAN

FOR WAYNE COUNTY ROAD GRANT LOCATION		WARRENDALE	
BEAMS:		MIDDLE ROUGE RIVER	
		EAST OF TELEGRAPH RD	
REVISIONS	DATE	BY	DATE
		PF	5-4-59
		CHECKED	DATE
		G.C.	5-5-59
		TRACED	DATE
			SCALE
SHEET NO.	2	DRAWING NO.	2366

Hand-drawn technical drawing of a mechanical part, likely a bracket or support, with dimensions and labels.

Top View:

- Overall width: $10\frac{1}{2}$
- Overall height: 24
- Distance from top edge to center of first hole: 24
- Distance between centers of two holes: 24
- Distance from center of second hole to bottom edge: 24
- Distance from right edge to center of second hole: 24
- Two holes are shown, each with a diameter of $1\frac{3}{8}$.
- Label: $1\frac{3}{8} \times 2$ SLOTTED HOLES

Side View:

- Overall height: $3\frac{1}{2}$
- Overall width: 4
- Distance from top edge to center of hole: 4
- Distance from center of hole to bottom edge: 4
- Label: $\frac{1}{2}$ " RADIUS

Bottom View:

- Overall width: $10\frac{1}{2}$
- Overall height: 24
- Distance from top edge to center of first hole: 24
- Distance between centers of two holes: 24
- Distance from center of second hole to bottom edge: 24
- Distance from right edge to center of second hole: 24
- Two holes are shown, each with a diameter of $1\frac{3}{8}$.
- Label: $1\frac{3}{8} \times 2$ SLOTTED HOLES

Labels:

- SP1
- SP2
- SP1
- SP2

Hand-drawn technical drawing of a mechanical part, likely a bracket or support, with dimensions and labels:

- Top View:**
 - Overall width: 10
 - Overall height: 6
 - Two circular holes are shown, each with a diameter of $\frac{3}{16}$ (labeled as "Holes").
 - Distance between hole centers: 2
 - Distance from the top edge to the center of the upper hole: 2
 - Distance from the bottom edge to the center of the lower hole: 2
- Side View (Left):**
 - Overall height: 2
 - Top width: 4
 - Bottom width: 4
 - Overall width: 8
- Side View (Right):**
 - Overall height: 2
 - Top width: 4
 - Bottom width: 4
 - Overall width: 8
- Bottom View:**
 - Overall width: 10
 - Overall height: 2
 - Distance from the left edge to the center of the left hole: 2
 - Distance from the right edge to the center of the right hole: 2

G. SOLE PLATES - 1SP1
G. SOLE PLATES - 1SP2

Hand-drawn diagram of a rectangular plate with dimensions and hole locations. The plate is labeled "1- 15 L 33.9 x 5'-9 1/2". The overall dimensions are 33.9 inches by 5 feet 9 1/2 inches. The plate has four holes, labeled "HOLES", arranged in a 2x2 grid. The distance between the center of the holes is 5 feet 7 inches. The distance from the center of the holes to the edges is 1/4 inch. The distance from the center of the holes to the corners is 1/4 inch. The distance from the center of the holes to the edges is 1/4 inch. The distance from the center of the holes to the corners is 1/4 inch.

Technical drawing of a rectangular plate with two holes. The plate has a width of 14 and a height of 6. The holes are spaced 5.7 apart horizontally and 1.12 apart vertically. The drawing includes dimension lines and labels for width, height, hole spacing, and hole diameter.

Labels and dimensions:

- Width: 14
- Height: 6
- Hole spacing (horizontal): 5.7
- Hole spacing (vertical): 1.12
- Hole diameter: $\phi 13/16$

SHOP NOTES

HOLES AS NOTED
PAINT. 1CT MSHD MIX 1A EXCEPT:
TOP SURFACE OF MASONRY RATES AND
BOTT SURFACE OF SOLE PL TO BE
COATED WITH HOT WHITE LEAD + TALLOW.
TOP SURFACE OF SOLE PL TO BE
COATED WITH 1CT BOILED LINED OIL only

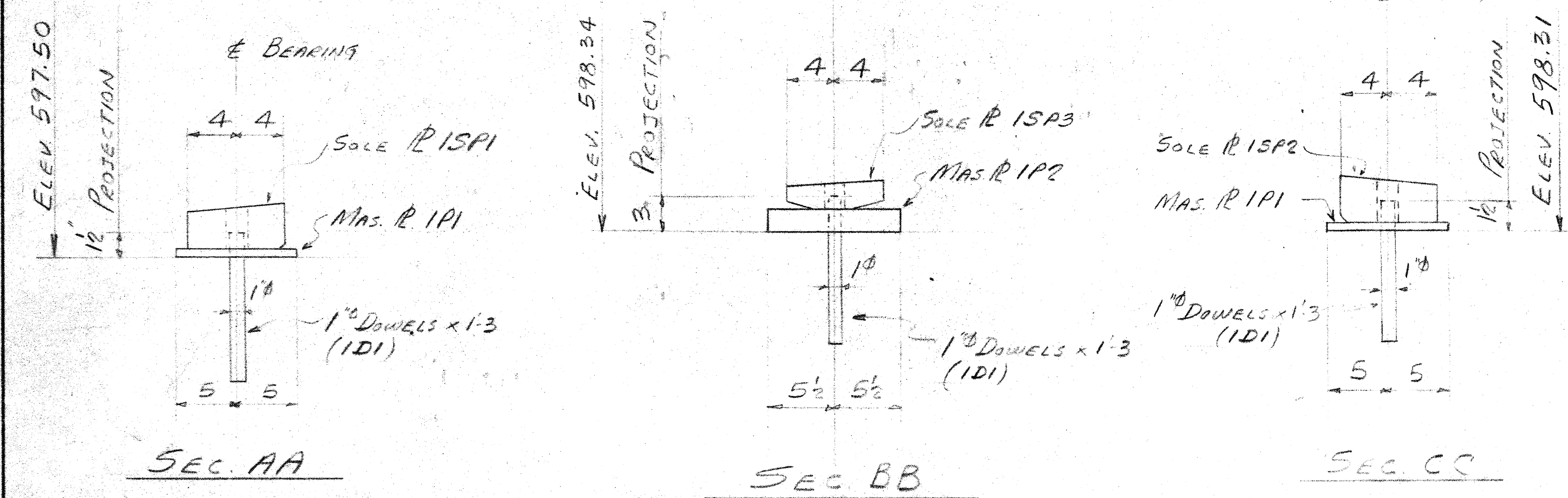
MARK	NO.	SECTION	LENGTH	REMARKS	WT.
		3G- DOWN -	1D1		
	3G	1" Rod	1'-3"		120
		12 MASONRY PLATES - 1P1			
	12	R 10 x 1/2	1'-0 1/2"		207
		G- MASONRY PLATES - 1P2			
	G	R 11 x 2	1'-0"		439
		G- SOLE PLATES - 1SP1			
		G- do do - 1SP2			
	G	R 8 x 3 3/8	0'-10 1/2"	FOR 1SP1	472
	G	R 8 x 3 3/8	0'-10 1/2"	FOR 1SP2	472
		G- SOLE PLATES - 1SP3			
	G	R 8 x 2 1/2	0'-10"		245
		15- DIAPHRAGMS - 1D1			
	15	L 33.9	5'-9 1/2"		2,945
		5- DIAPHRAGMS - 1D2			
	5	L 20.7	5'-9 1/2"		599
				SHT TOTAL	5,499

MICROFILMET Job 1250 - Job 1250 - #7

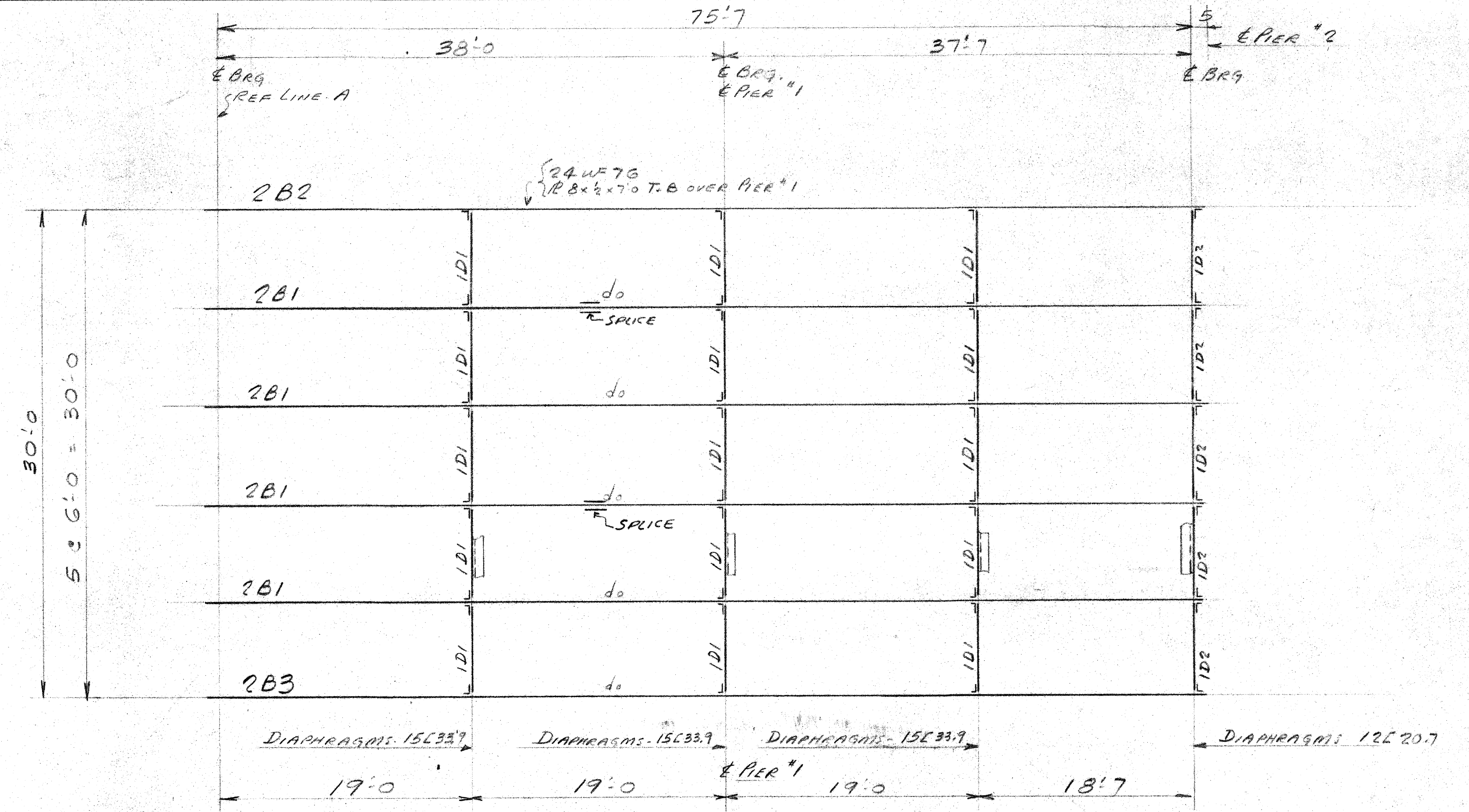


North

PLAN OF POSITION DOWELS

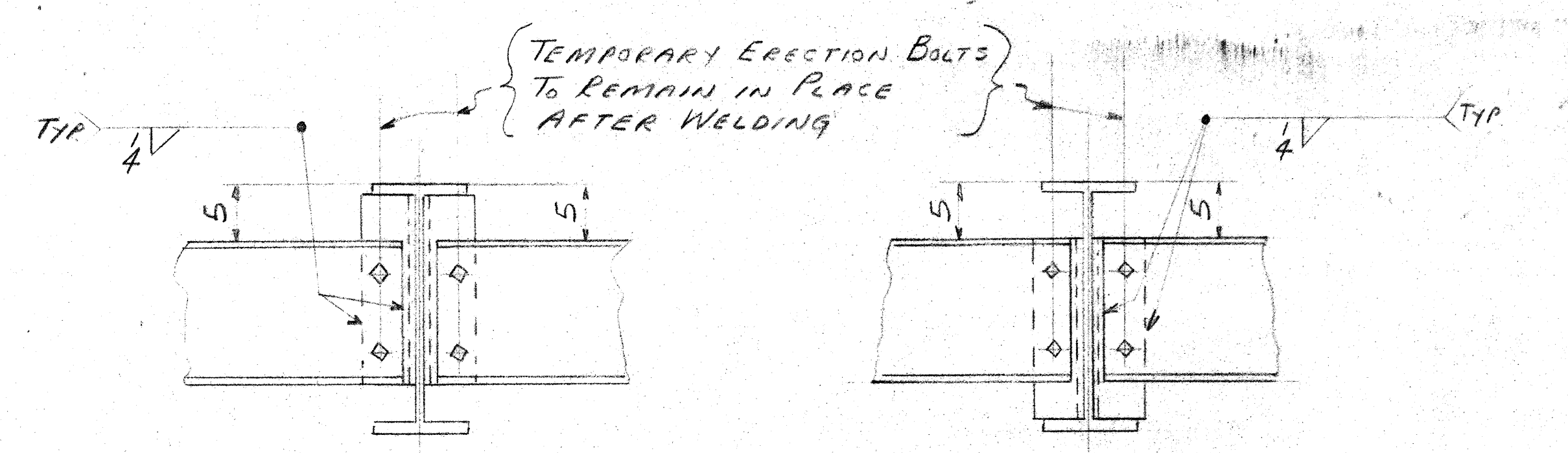


POSITION DOWEL DETAILS
ELEVATIONS GIVEN ARE TO TOP OF BRIDGE SEATS



North

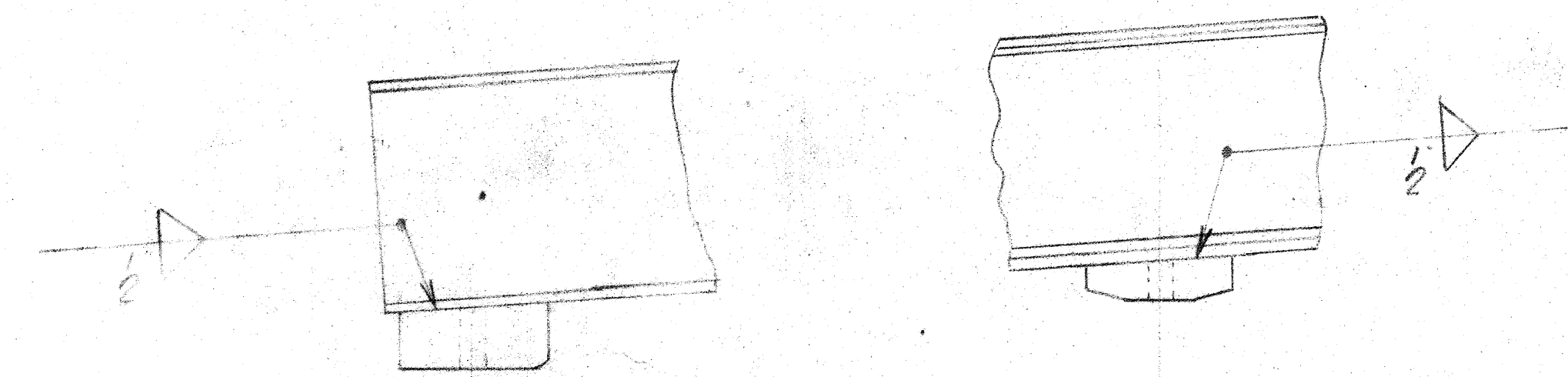
PLAN



TYPICAL DIAPH. CONN.

DIAPHRAGM CONN. AT PIER #1

FIELD WELDING AT DIAPHRAGMS

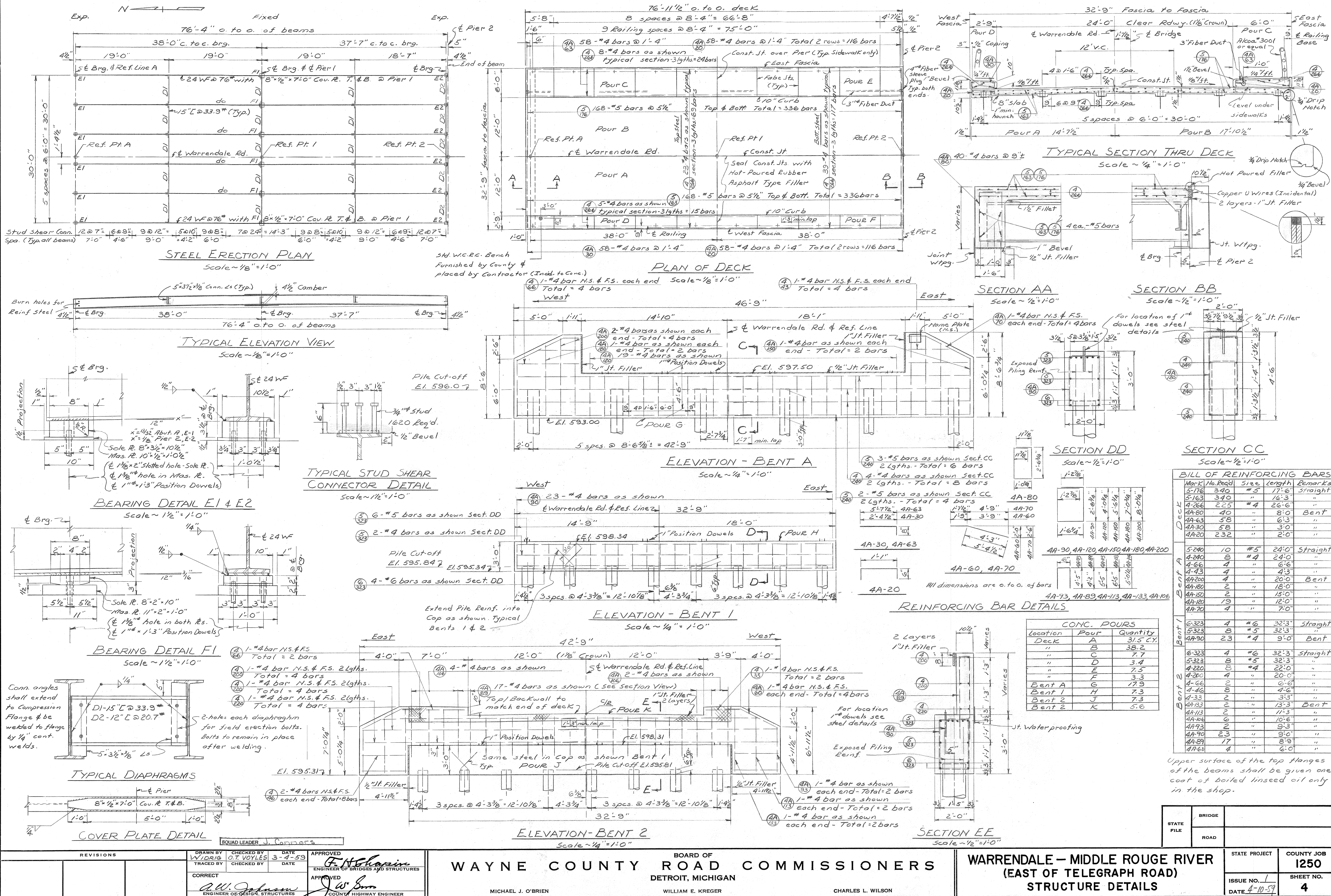


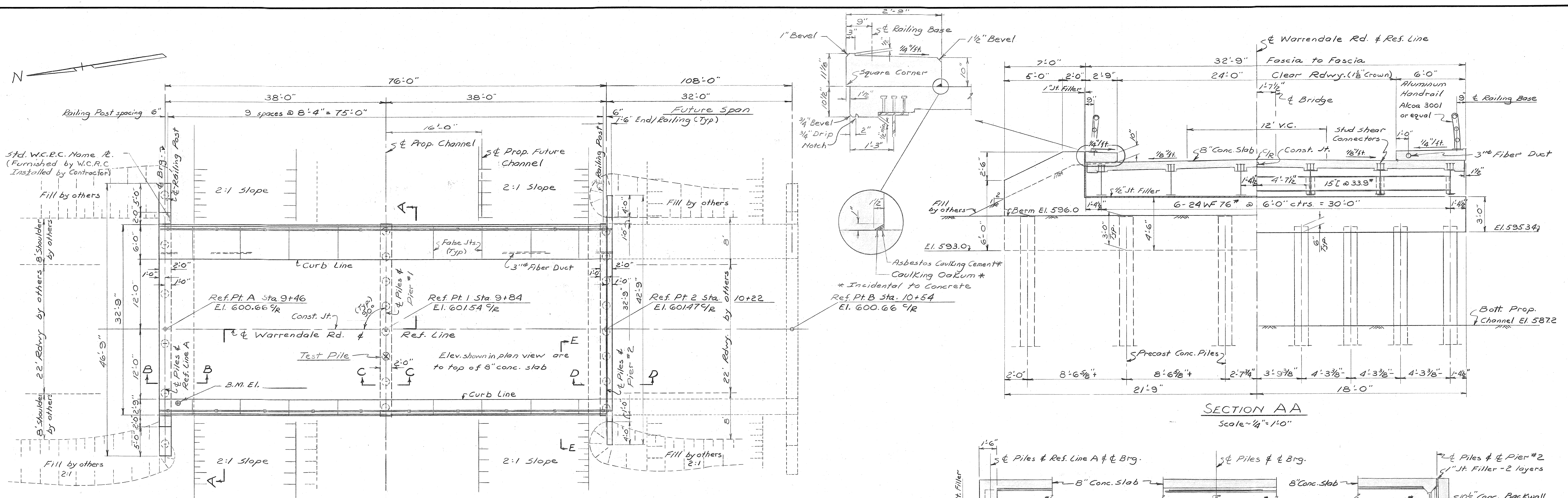
DETAIL AT BEAM ENDS

DETAIL AT PIER #1

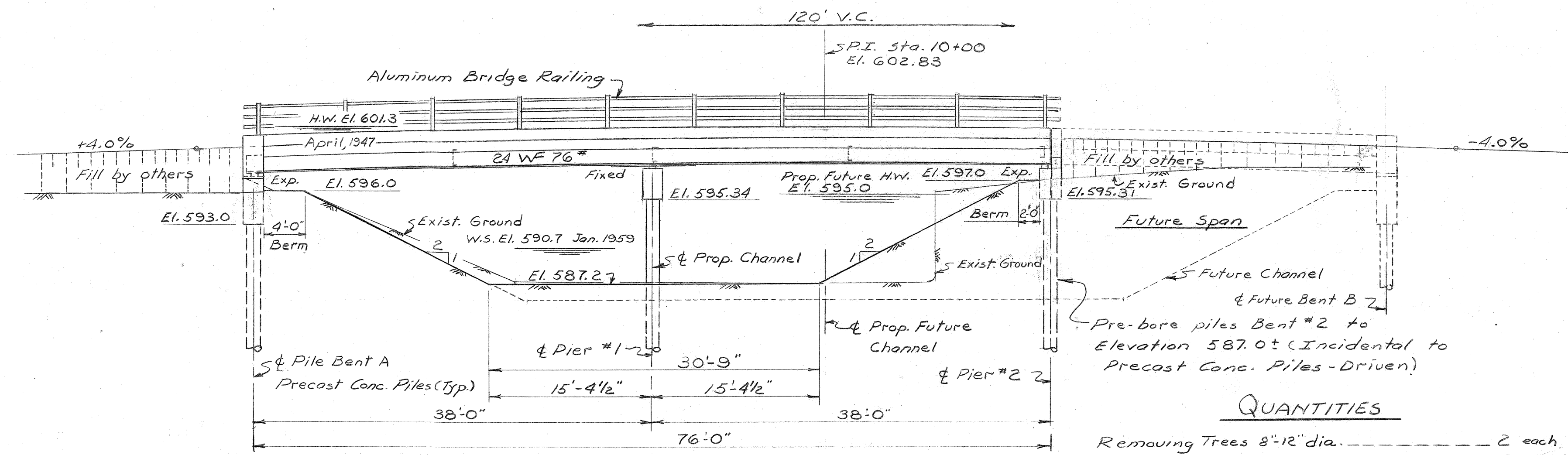
DETAILS SHOWING FIELD WELDING OF SOLE R.
TYPICAL FOR ALL BEAMS

PARAGON CONSTRUCTION COMPANY					
44000 GRAND RIVER AVE. - NOVI, MICHIGAN					
STRUCTURAL STEEL - MISCELLANEOUS IRON - HIGHWAY BRIDGES					
MATERIAL HANDLING RACKS - RAILROAD CAR INSTALLATIONS					
MAILING ADDRESS: P.O. BOX 4816 - REDFORD STATION - DETROIT 19, MICHIGAN					
FOR WAYNE COUNTY ROAD COMMISSION			LOCATION WARRENDALE		
POSITION DOWEL PLAN & BEARING PLAN			MIDDLE ROUGE RIVER		
			EAST OF TELEGRAPH RD.		
REVISIONS	DATE	BY	DRAWN	DATE	APPROVED
			PF	5-1-59	
			CHECKED	DATE	CUSTOMER'S ORDER NO.
			G.C.	5-5-59	
			TRACED	DATE	SCALE
SHEET NO. E1			DRAWING NO. 2366		

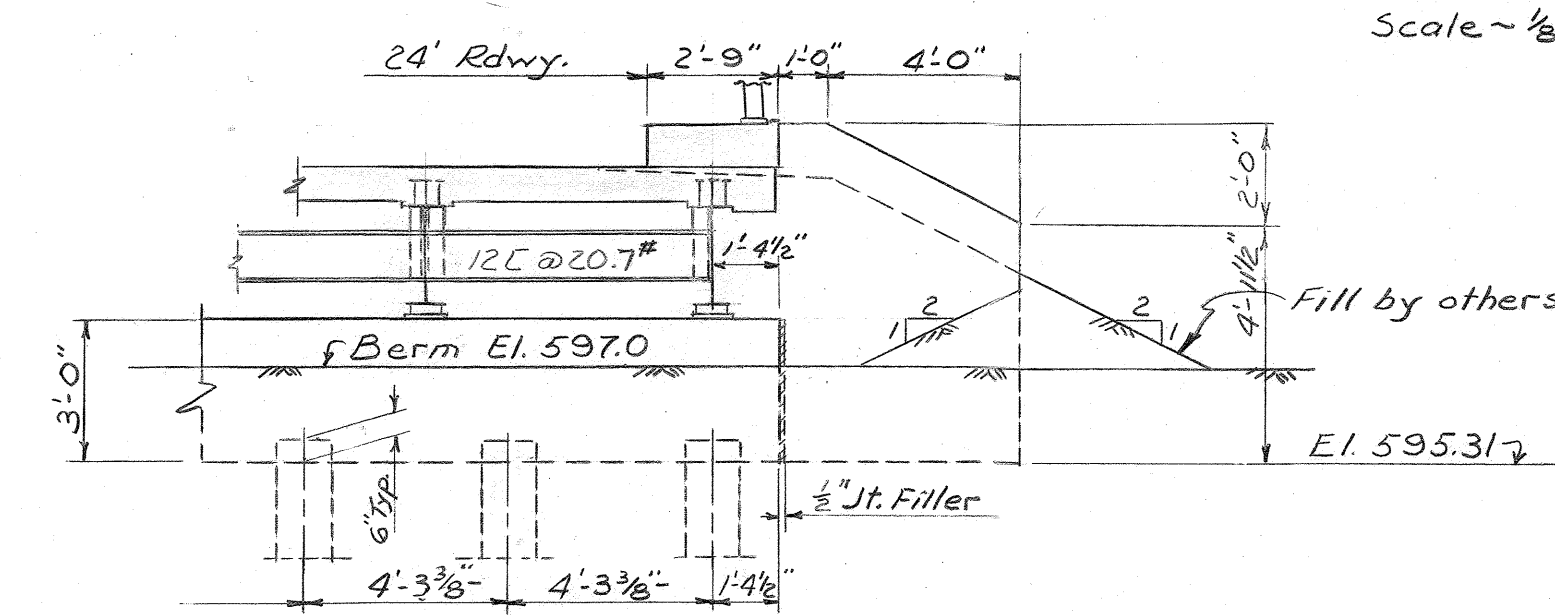




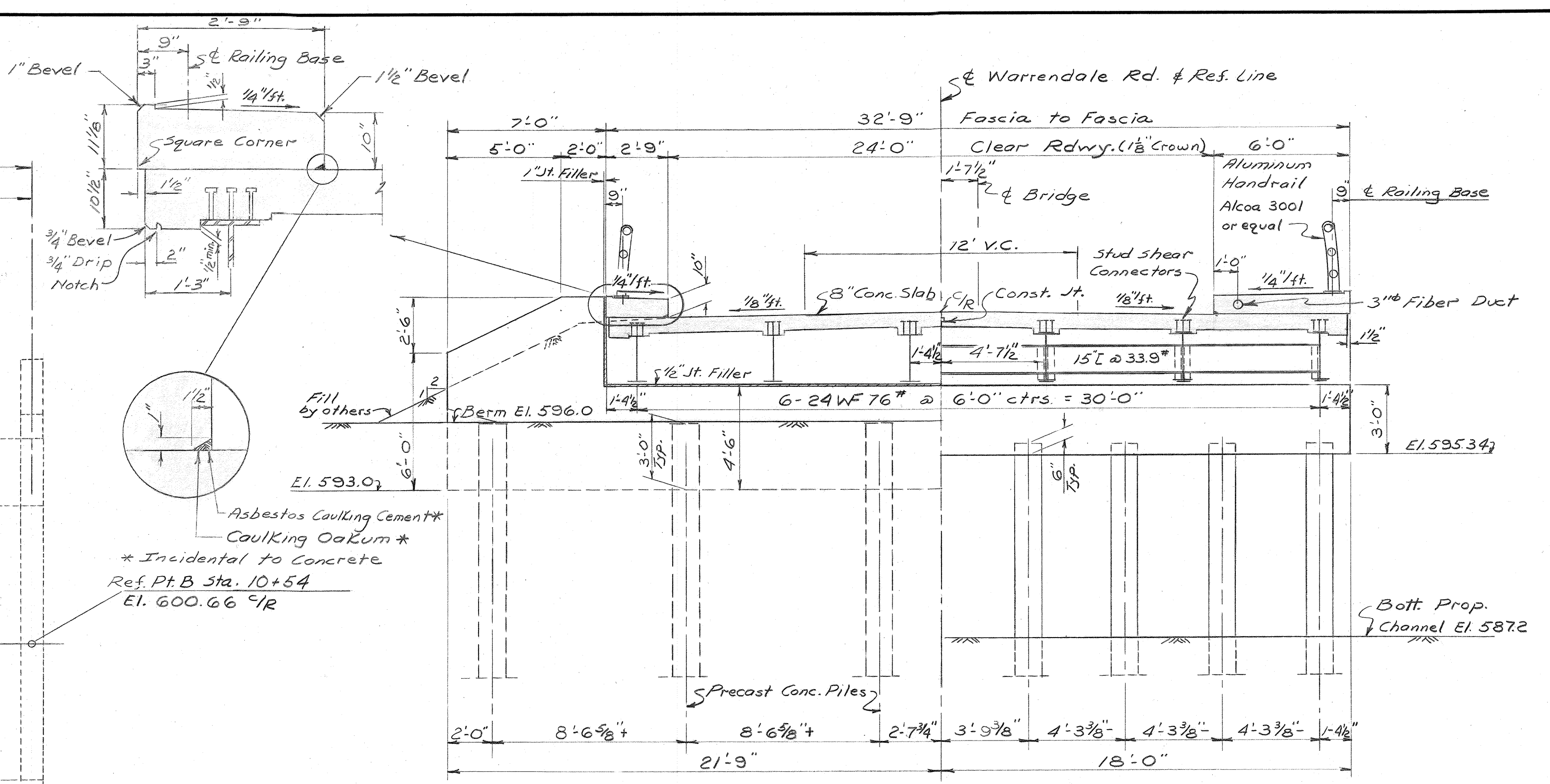
PLAN
Scale - 1/8" = 1'-0"



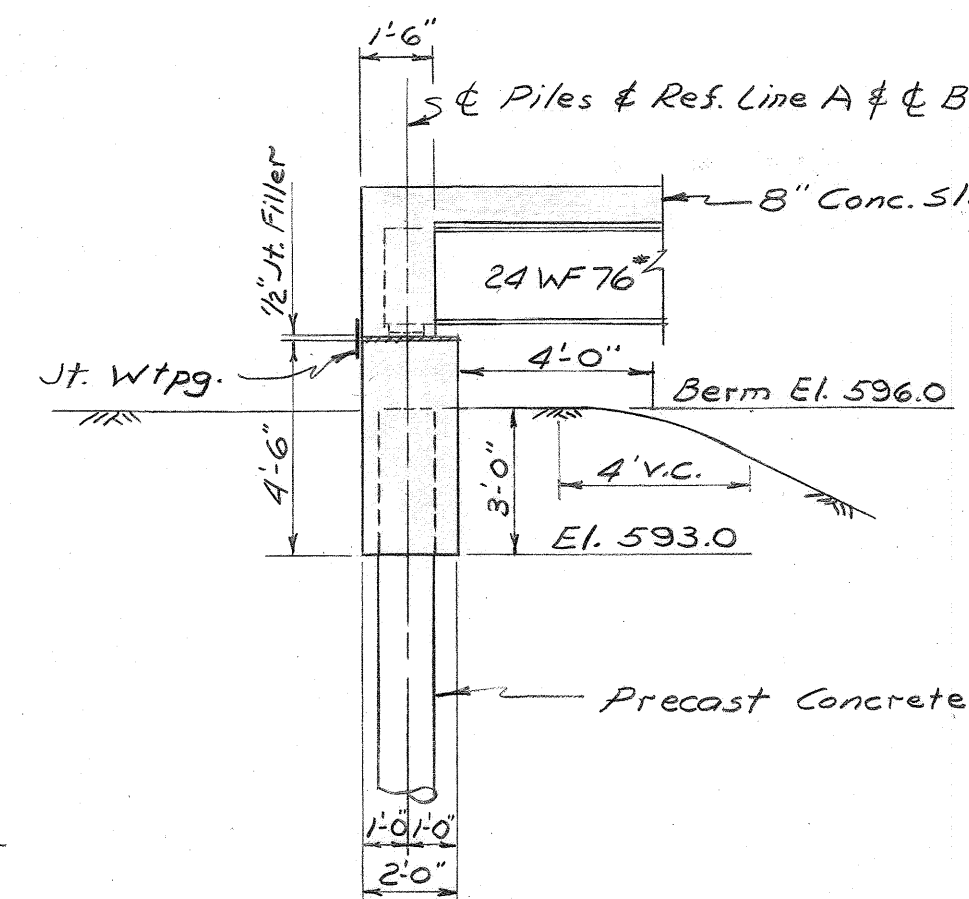
ELEVATION
Scale - 1/8" = 1'-0"



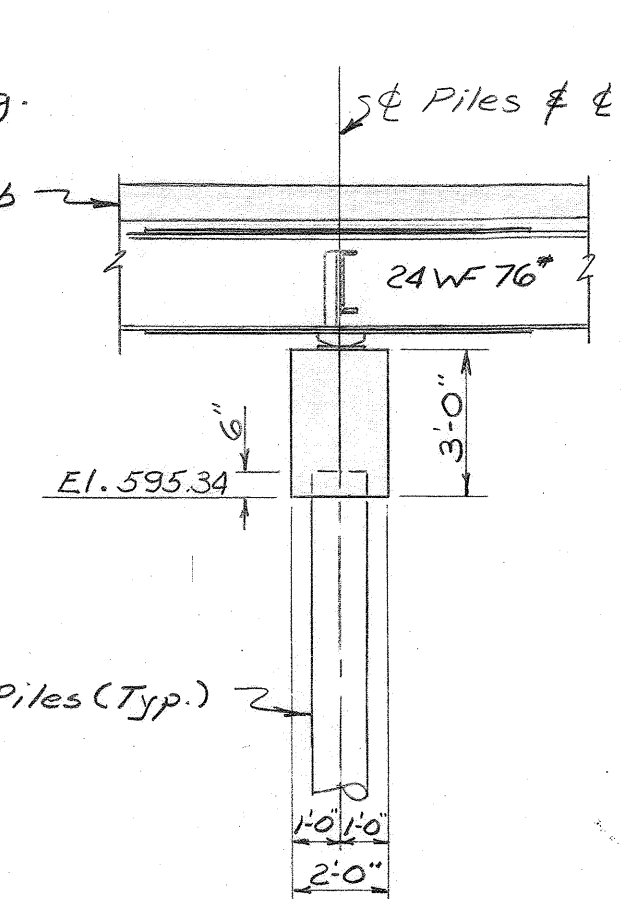
SECTION EE
Scale - 1/4" = 1'-0"



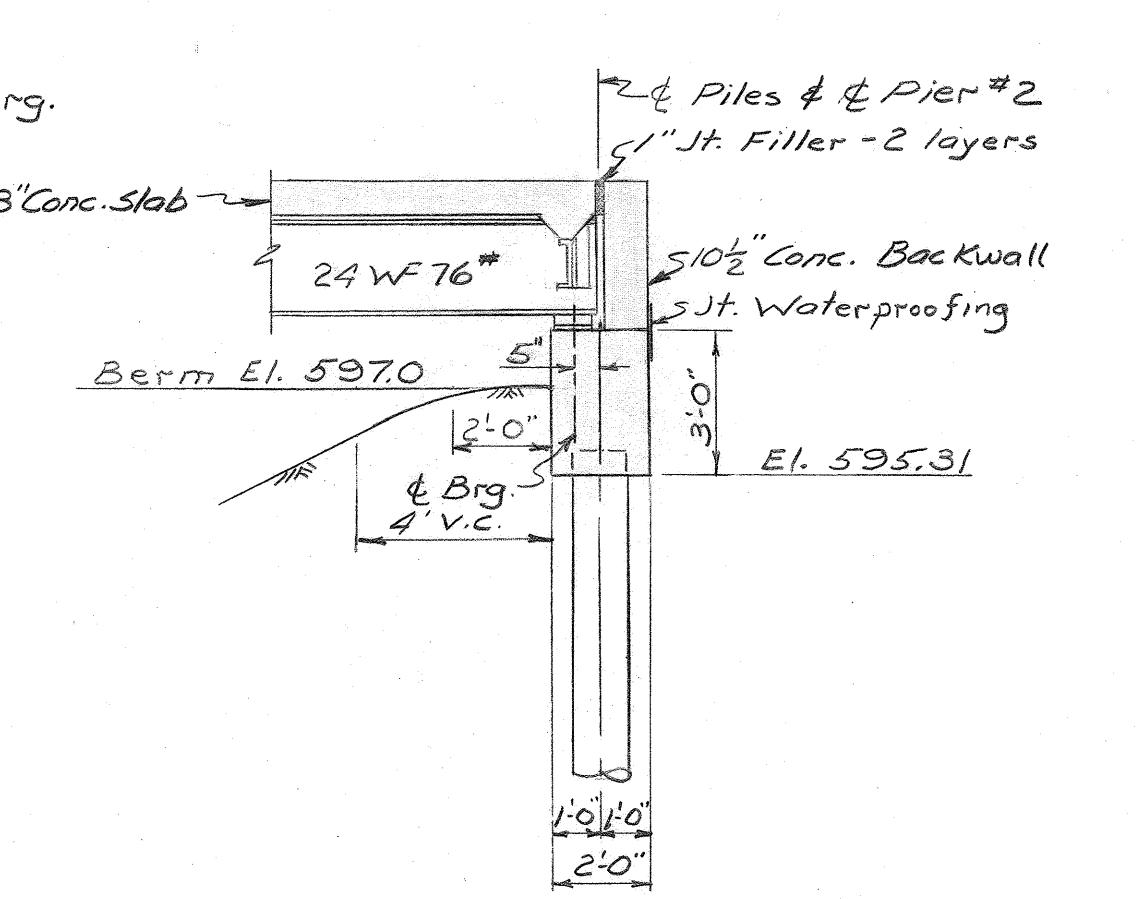
SECTION AA
Scale - 1/4" = 1'-0"



SECTION BB
Scale - 1/4" = 1'-0"



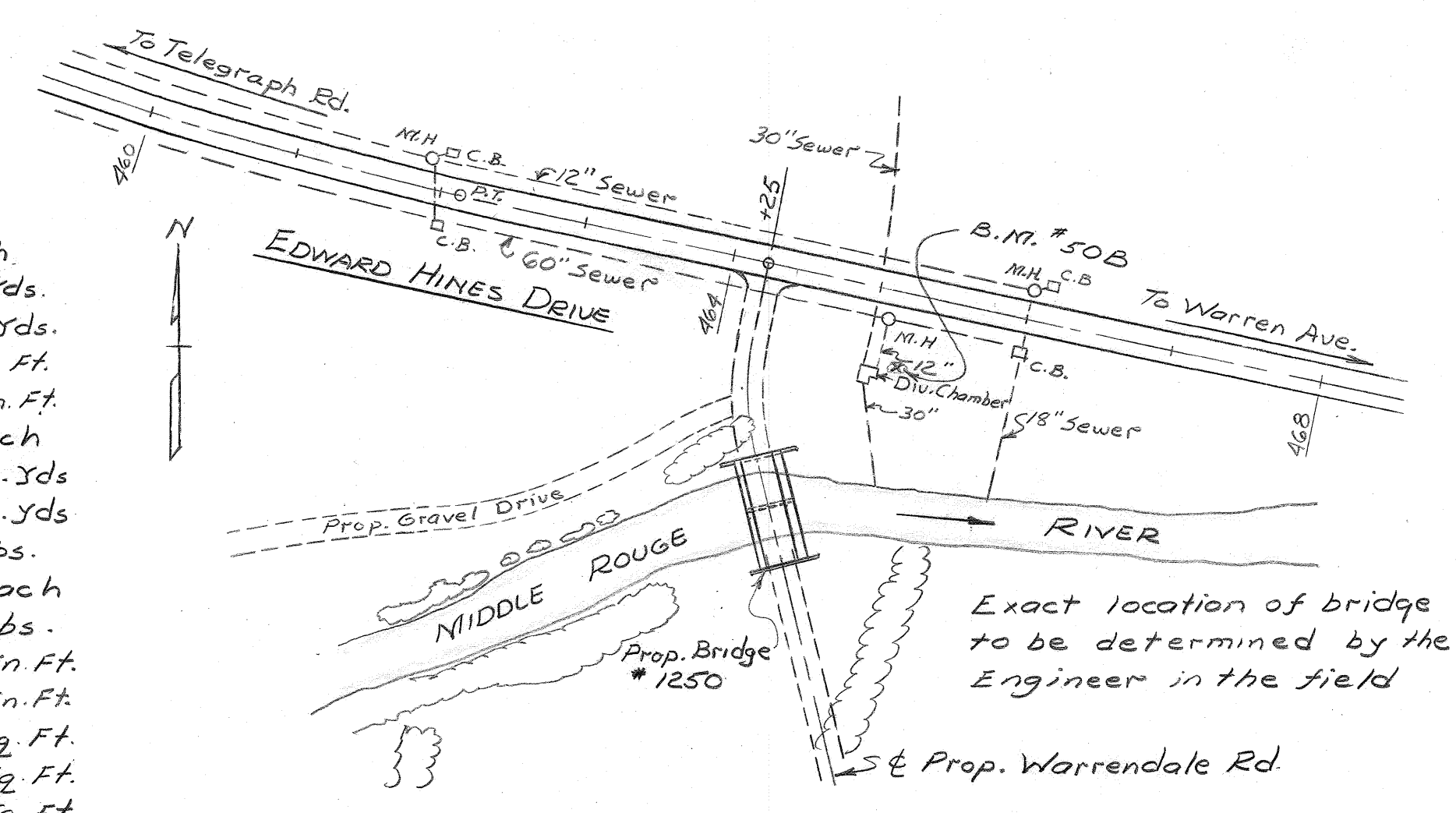
SECTION CC
Scale - 1/4" = 1'-0"



SECTION DD
Scale - 1/4" = 1'-0"

QUANTITIES

Removing Trees 8"-12" dia.	2 each
Channel Excavation	68 Cu. Yds.
Unclassified Excavation	33 Cu. Yds.
Precast Conc. Piles-Furnished	630 Lin. Ft.
Precast Conc. Piles-Driven	582 Lin. Ft.
Cutoff-Precast Conc. Piles	22 each
Substructure Conc.-Gr A (6B Gravel or Slag)	38.1 Cu. Yds
Superstructure Conc.-Gr A (6B Gravel or Slag)	91.6 Cu. Yds
Structural Steel	42010 Lbs.
Stud Shear Connectors	1620 each
Reinforcing Steel	19120 Lbs.
Aluminum Bridge Railing	156 Lin. Ft.
3" Fiber Duct	80 Lin. Ft.
1" Joint Filler	72 Sq. Ft.
1/2" Joint Filler	52 Sq. Ft.
Joint Waterproofing	120 Sq. Ft.
Hot-Poured Rubber-Asphalt Type Filler	118 Lin. Ft.
Elm Tree Spray - Applied	5 Gals



LOCATION PLAN
Scale - 1" = 100'

Shop Point: In addition to the shop point provisions of the General Specifications the top surfaces of Masonry Rls. & the bottom surface of the sole Rls shall be coated in accordance with the requirements for machine finished surfaces.

Field Point: One coat of Painting Mixture #2A and second coat of Painting Mixture #5.

Concrete - Grade A (6B Gravel or Slag) Piles - Precast Conc. Piles. Drive to 30 Ton Bearing Capacity. For details of piles see County std. 461.

B.M. #50B El. 597.75 Horiz. Spike N.W. side 9'-18" Twin Elm, 56' S. of Sta. 465+20

Limits of Unclassified Excavation are vertical lines 1'-0" outside of concrete outline.

Piles estimated to be 30' long Bents #1 & 2. Piles estimated to be 25' long Bent A. Above are furnished lengths.

REVISIONS CORRECT ENGINEER OF DESIGN, STRUCTURES AND EXPRESSWAYS		DRAWN BY V. V. DRIG CHECKED BY J. W. V. L. E. S. DATE 2-13-59	APPROVED J. W. V. L. E. S. COUNTY HIGHWAY ENGINEER	BOARD OF WAYNE COUNTY ROAD COMMISSIONERS DETROIT, MICHIGAN MICHAEL J. O'BRIEN WILLIAM E. KREGER CHARLES L. WILSON	WARRENDALE - MIDDLE ROUGE RIVER (EAST OF TELEGRAPH ROAD) GENERAL DRAWING	STATE PROJECT COUNTY JOB 1250 SHEET NO. 3
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