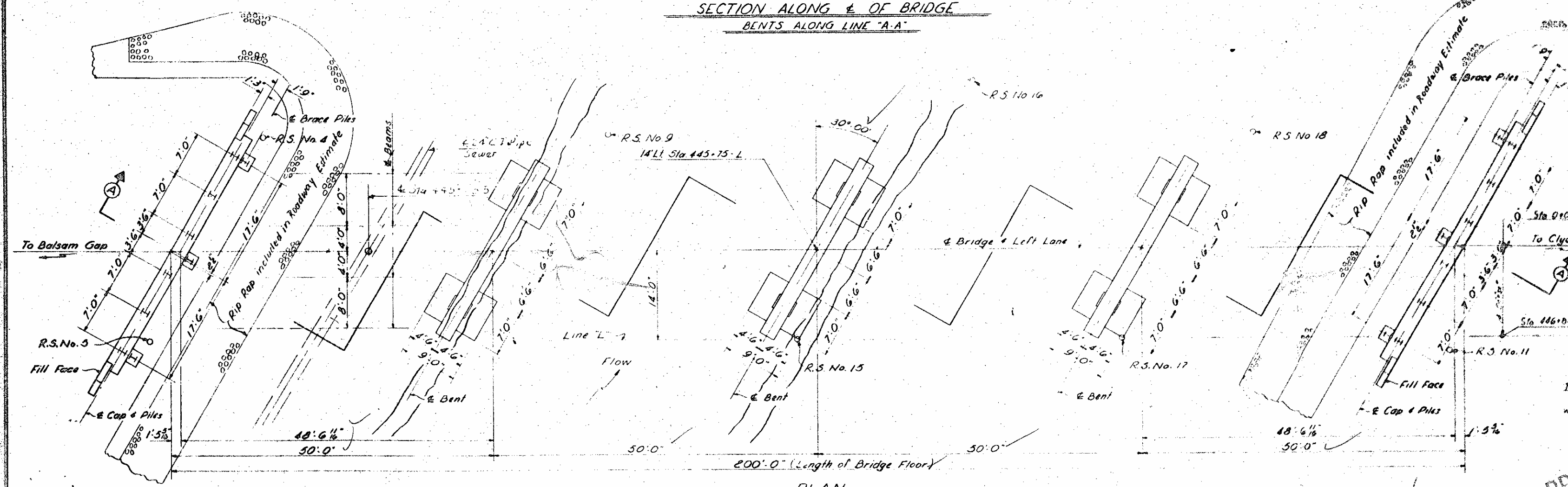
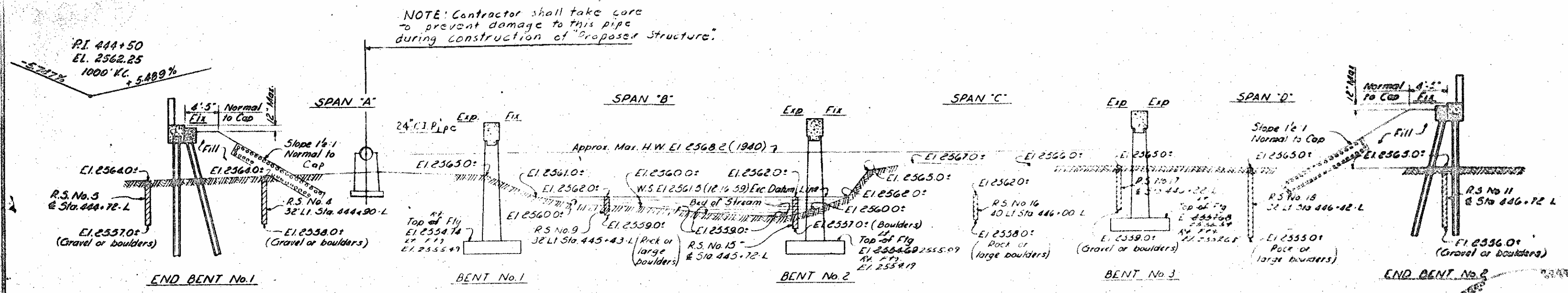


NOTE: Contractor shall take care to prevent damage to this pipe during construction of proposed structure.

3	AC
R. A. ROBERTS P. E.	

NOTES FOR LEFT & RIGHT LANES
 Assumed Live Load - H20-S16(88)
 For other design data and general notes see sheet 3-N
 Computed foundation load for Bents No. 1, 2 & 3 equals 2 1/2 tons per sq ft.

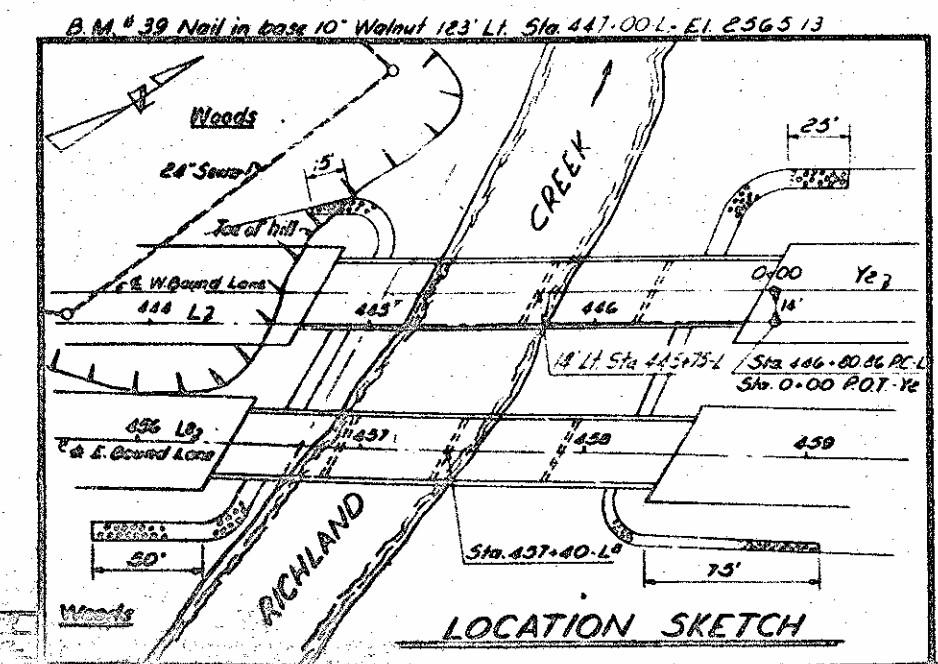
No test piles are required. Order lengths shall be 25 ft for End Bents No. 1 & 2. All piles to be driven to a minimum bearing capacity of 28 tons each. All piles to be driven through the roadway fill.



I hereby certify that this structure was built according to plans.
 Signed _____
 Resident Engineer

OK
 SECOND CYCLE BRIDGE INSPECTION 1982

PROJECT No. 819470...
 HAYWOOD COUNTY
 STATION: 445+75 L



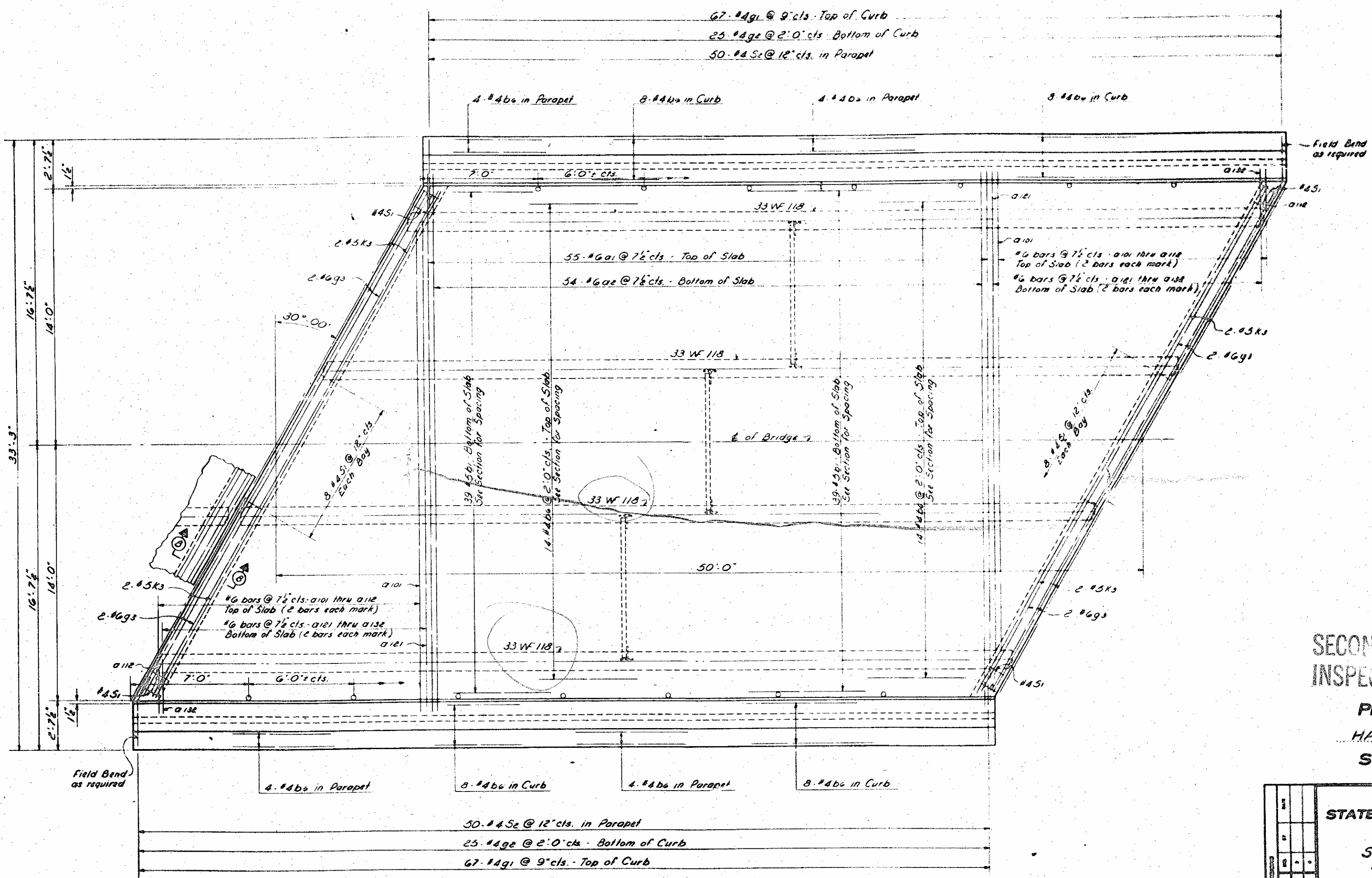
TOTAL BILL OF MATERIAL FOR LEFT LANE

Item	Class	Reinforcing Steel	Structural Steel Approx	12 H 33 Steel Piles	Quantity	Unit	Weight	Volume	Cost
		Lbs.	Lbs.	No. Lin. Ft.			Lbs.	Cu. Yds.	
Superstructure		2114	48753	116900	9	2223	19023		339
End Bent No. 1		138	3015				20268	202530	339
Bent No. 2		2002500	4503				20268	202530	339
Bent No. 3		2003226	4530				20268	202530	339
End Bent No. 2		2003260	4530				20268	202530	339
Approach Curbs		38	76						
TOTALS		68379	116900	116900	9	2223	602795	1923110	13072

Included in quantity & estimate quantity shown in CP data left and right lanes.

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 GENERAL DRAWING
 FOR BRIDGE OVER RICHLAND CREEK
 ON RELOC US 23 BETWEEN
 BALSAM GAP & CLYDE
 LEFT LANE
 SEPTEMBER 1962

DATE	BY	CHKD
0	CC	CC
P. A. 880007 P. 12 2183		

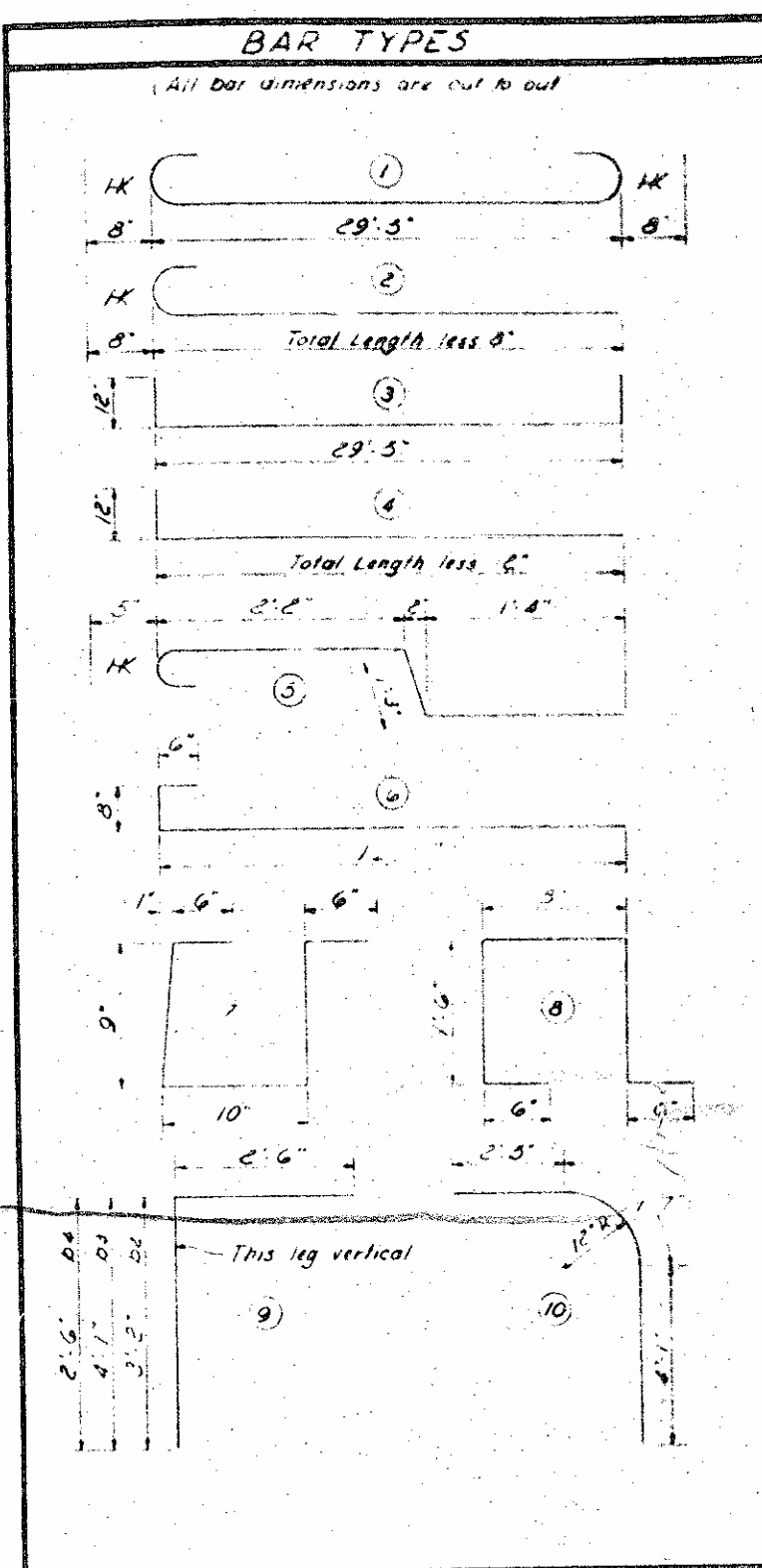
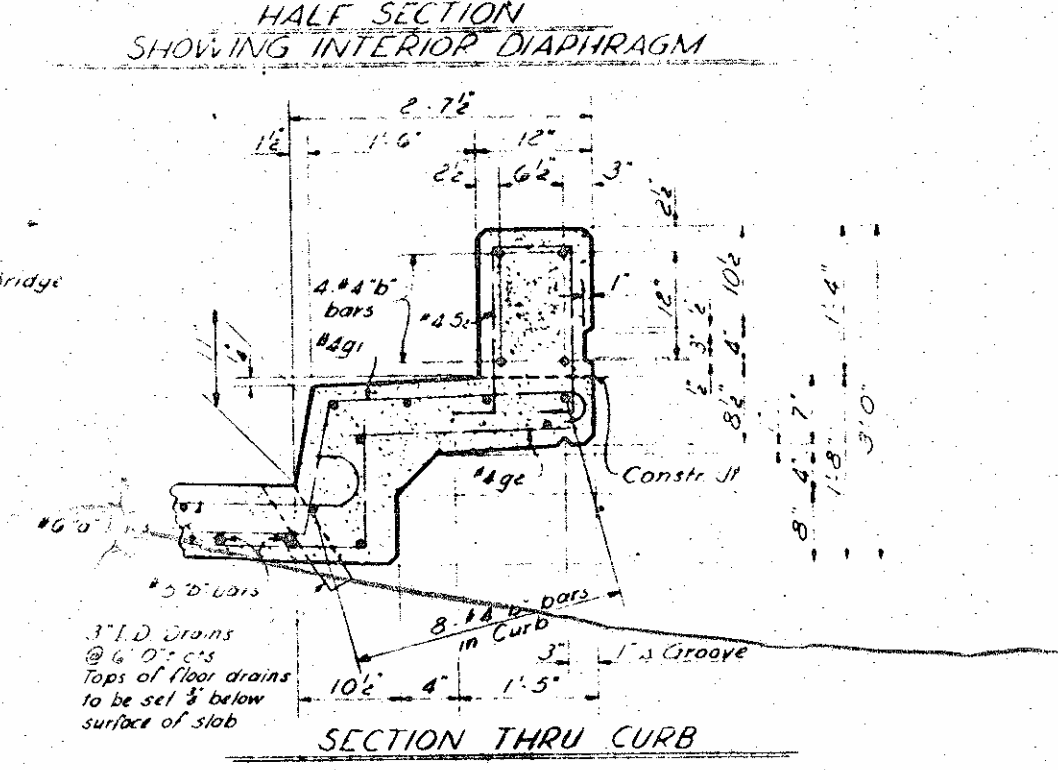
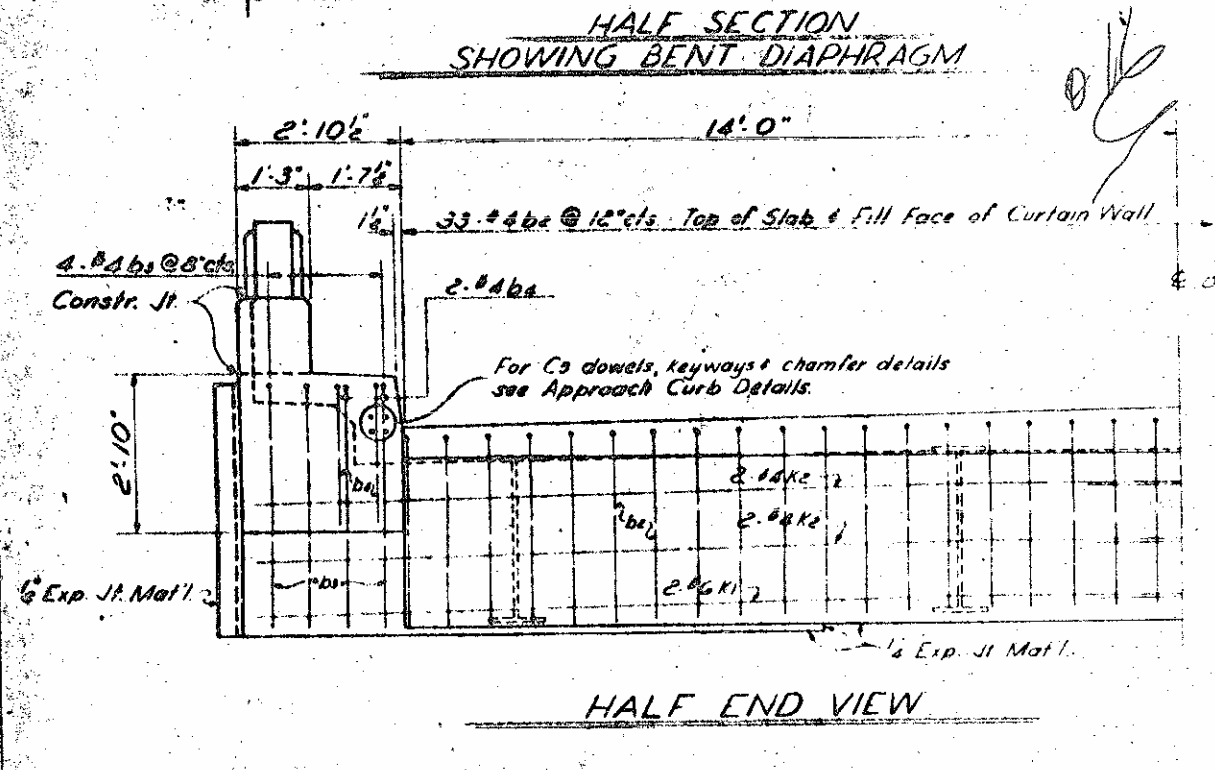
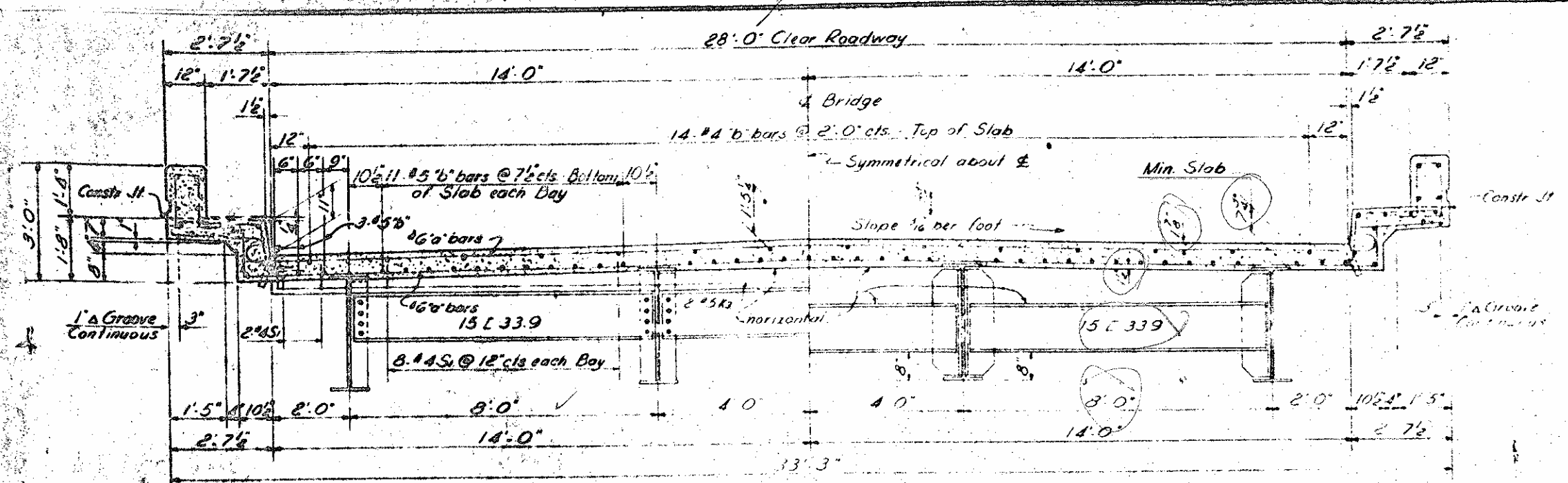


PLAN

SECOND GULE BRIDGE
 INSPECTION 1981-1982
 PROJECT No. 819470
 HAYWOOD COUNTY
 STATION: 445+75.4

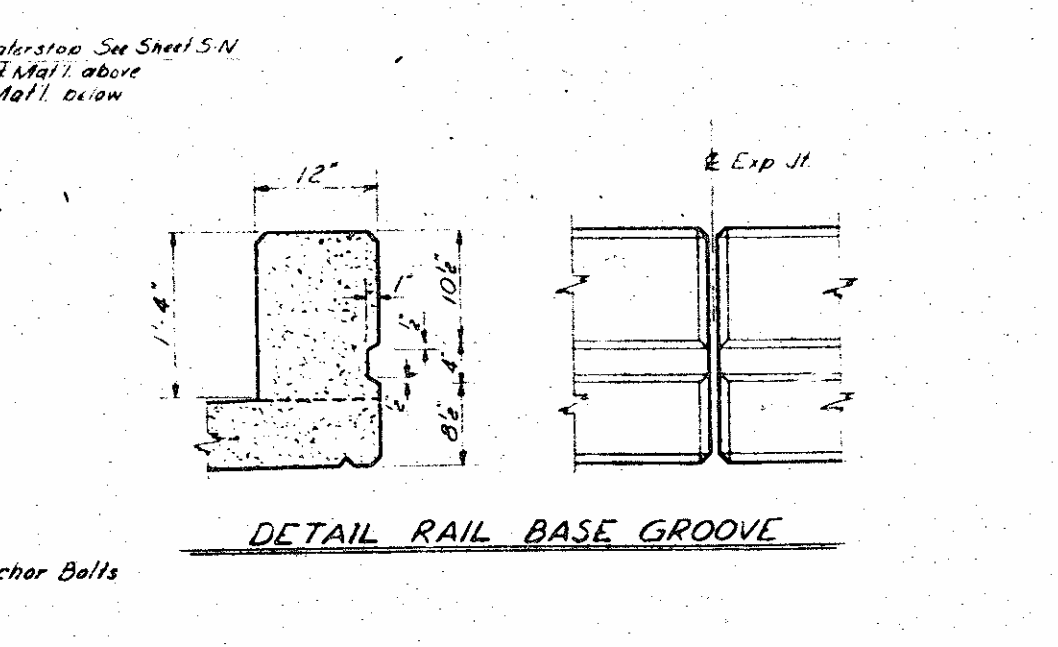
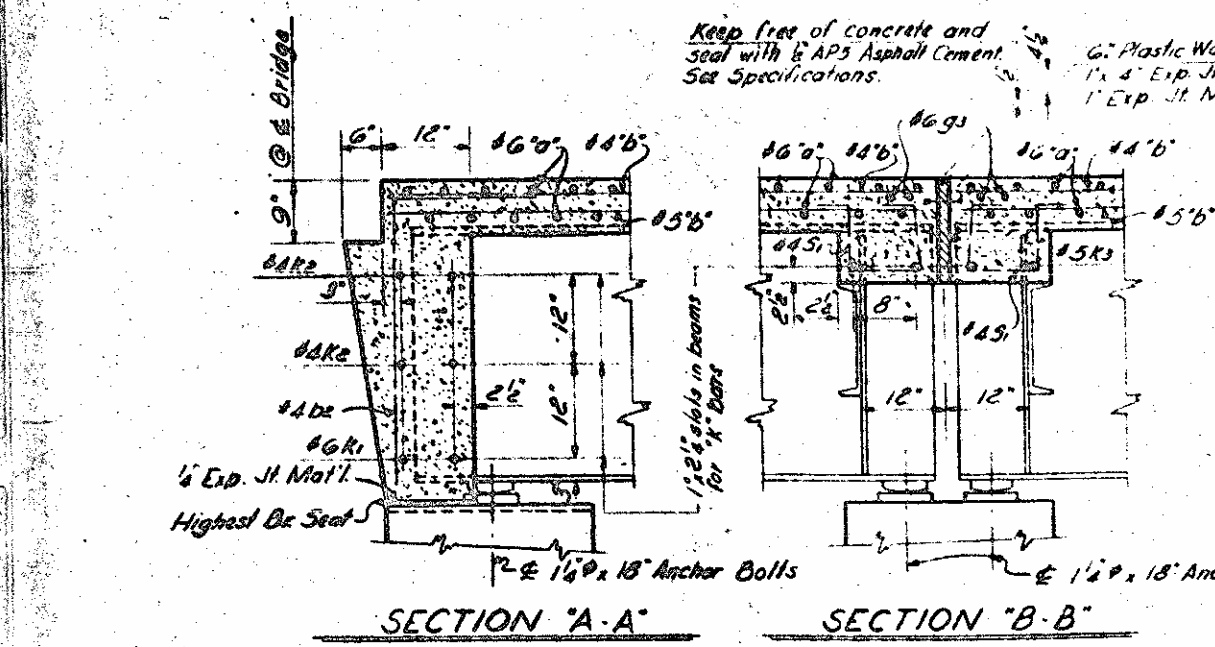
STATE OF NORTH CAROLINA STATE HIGHWAY COMMISSION		
SUPERSTRUCTURE SPAN 'B' OR 'C' LEFT LANE		
AUGUST 1982		

PROJECT NO. 19470
 HAYWOOD COUNTY
 STATION: 443.75 L



BILL OF MATERIAL FOR FOUR SPANS											
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	QTY	NO.	SIZE	TYPE	LENGTH	WEIGHT
a1	220	#6	1	30'9"	10,161	5	168	#4	7	3'8"	320
a2	216	#6	3	31'5"	10,183	5	806	#4	8	4'0"	1,200
a10a	16	#6	2	27'2"	633						
a10b	16	#6	2	25'0"	601						
a10c	16	#6	2	22'10"	599						
a10d	16	#6	2	20'8"	497						
a10e	16	#6	2	18'6"	445						
a10f	16	#6	2	16'4"	393						
a10g	16	#6	2	14'2"	340						
a10h	16	#6	2	12'0"	288						
a10i	16	#6	2	9'10"	236						
a10j	16	#6	2	7'8"	184						
a10k	16	#6	2	5'6"	132						
a10l	16	#6	2	3'4"	80						
a11	16	#6	1	28'0"	623						
a11a	16	#6	1	25'10"	621						
a11b	16	#6	1	23'8"	571						
a11c	16	#6	1	21'7"	519						
a11d	16	#6	1	19'5"	467						
a11e	16	#6	1	17'3"	415						
a11f	16	#6	1	15'1"	362						
a11g	16	#6	1	12'11"	310						
a11h	16	#6	1	10'9"	258						
a11i	16	#6	1	8'7"	206						
a11j	16	#6	1	6'5"	154						
a11k	16	#6	1	4'3"	102						
b1	316	#5	21	23'9"	8,380						
b2	46	#4	9	5'8"	230						
b3	16	#4	9	6'7"	70						
b4	8	#4	9	5'0"	27						
b5	48	#4	54	26'0"	834						
b6	208	#4	54	25'3"	3,520						
b7	48	#4	54	26'5"	847						
c1	8	#4	10	8'1"	43						
c2	24	#4	54	8'1"	31						
f1	8	#4	54	3'5"	18						
g1	536	#4	5	5'2"	1,050						
g2	400	#4	54	2'3"	301						
g3	24	#6	54	17'0"	613						
k1	8	#6	54	20'3"	245						
k2	16	#4	54	20'1"	215						
k3	24	#5	6	18'1"	453						

Reinforcing Steel Lbs. 40,753
 Class 'A' Concrete Cu Yds. 211.6
 Structural Steel Approx. Lbs. 116,800
 Bar Metal Rail, n 11 - 380.25

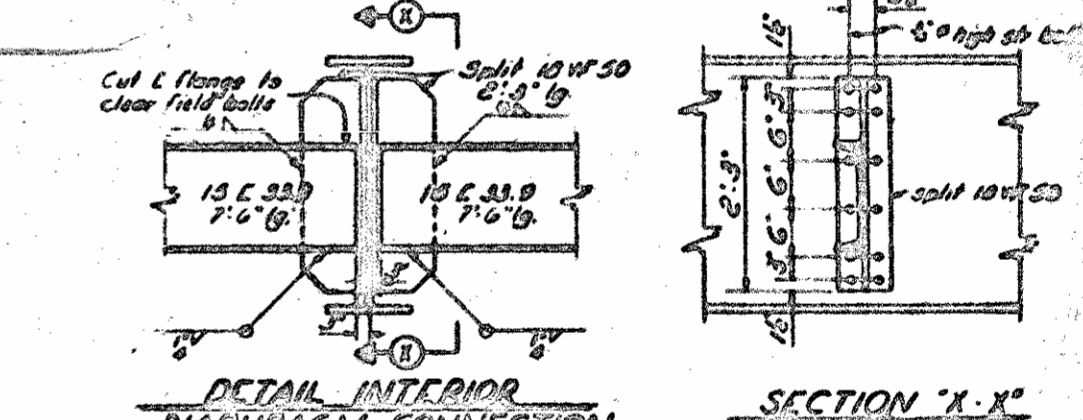
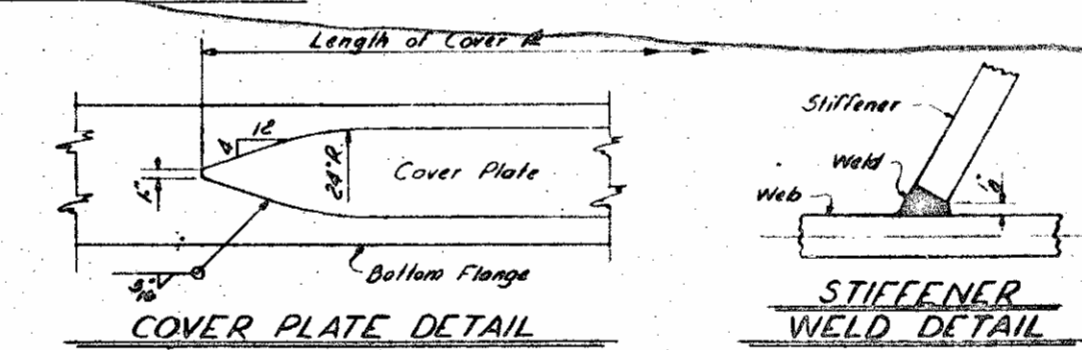
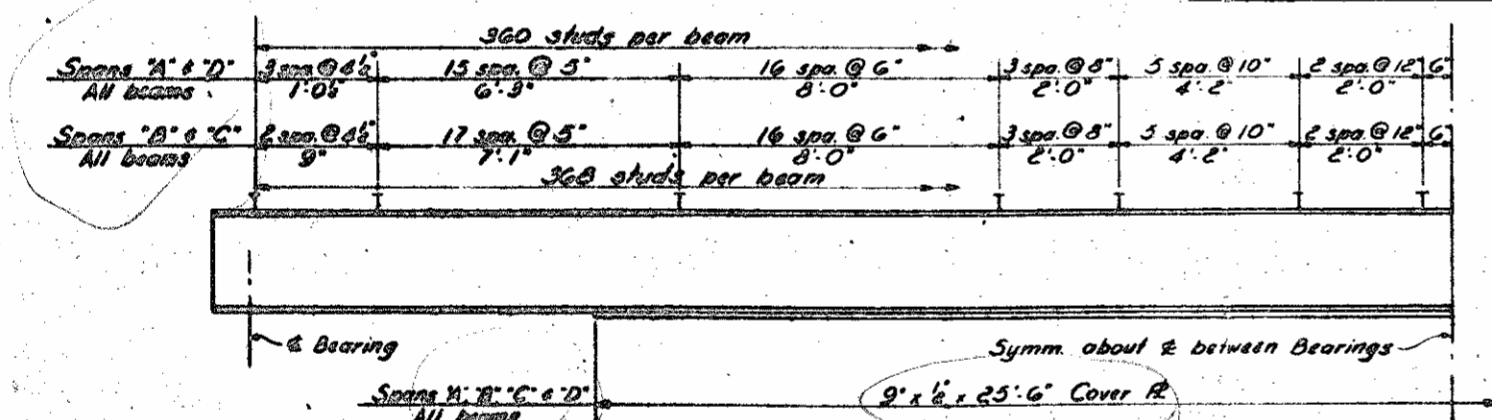
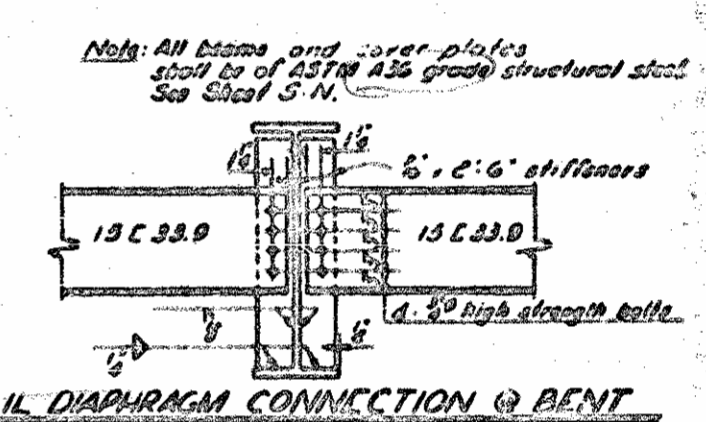
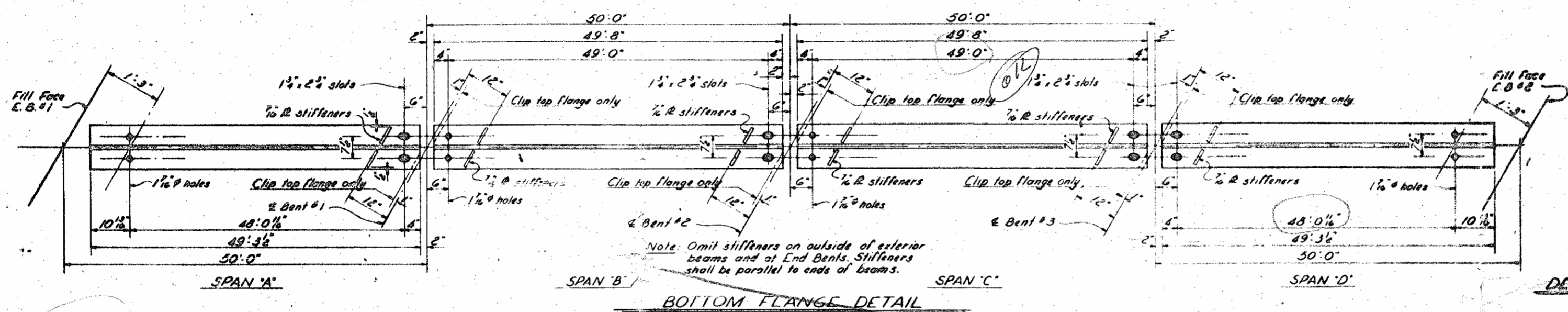
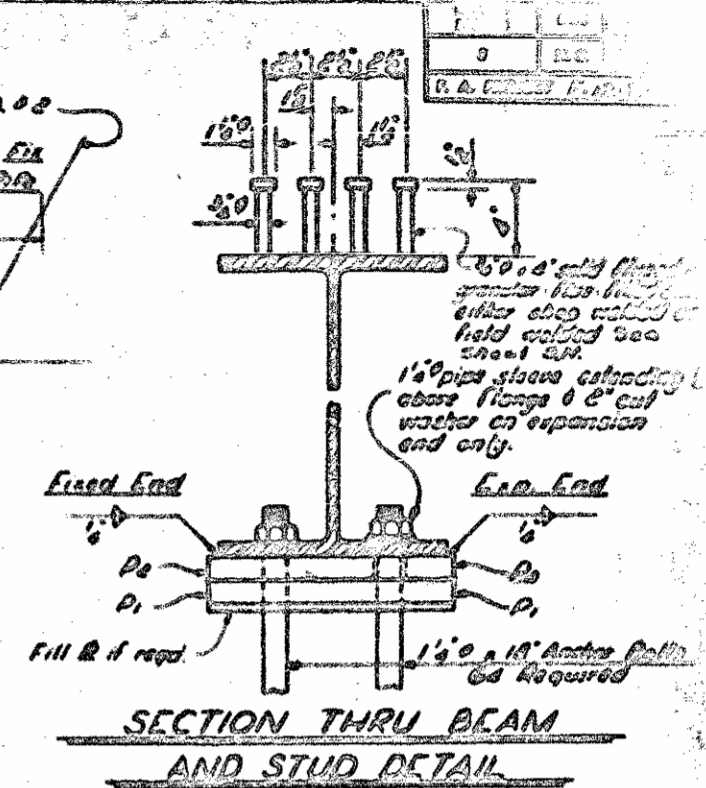
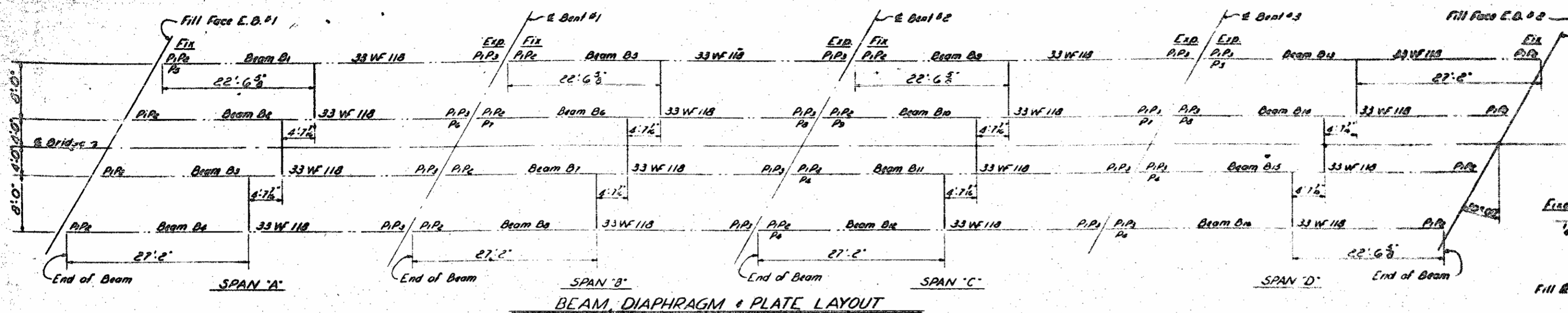


BREAKDOWN OF CONCRETE QUANTITIES	
SPAN	CU YDS
A	55.8
B	49.9
C	49.9
D	55.8
SPAN "A" THRU "D"	211.4

PROJECT NO. 19470
 HAYWOOD COUNTY
 STATION: 443.75 L

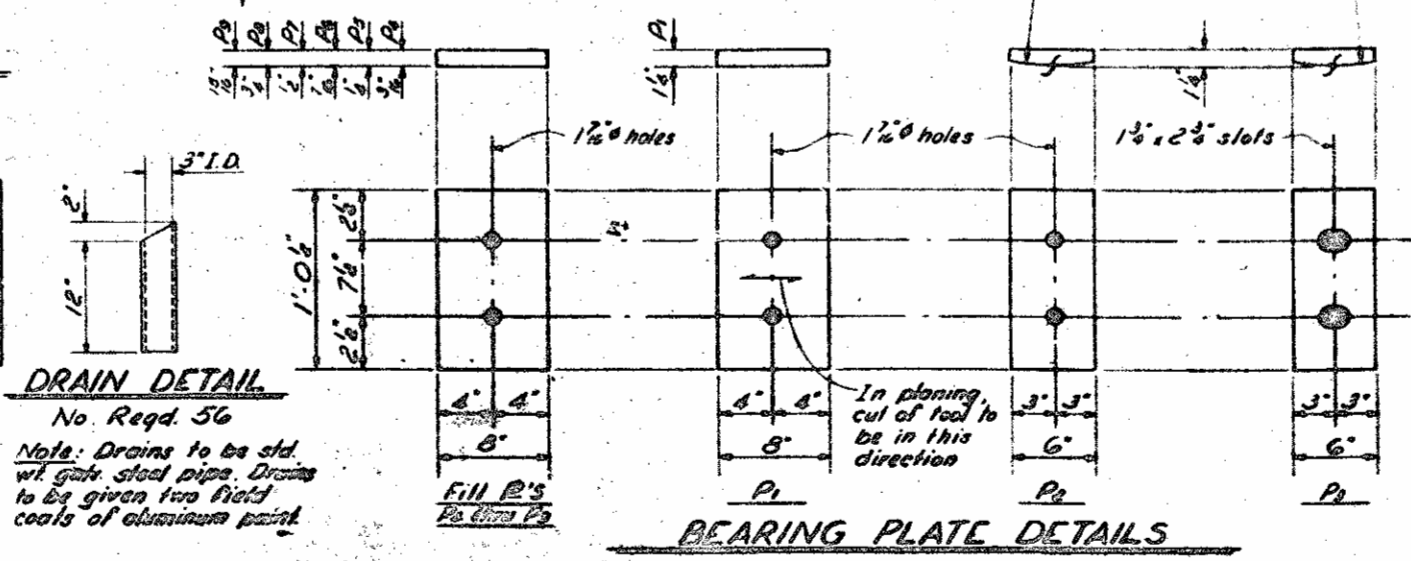
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUPERSTRUCTURE SECTIONS & DETAILS
 BAR TYPES & BILL OF MATERIAL
 LEFT LANE
 AUGUST 1962

SECOND CYCLE BRIDGE
 INSPECTION 1981-1982



DEAD LOAD DEFLECTION	SPANS 'A', 'B', 'C' & 'D'	
	Exterior Beams	Interior Beams
Deflection due to weight of beam		
Deflection due to superimposed dead load		
Total dead load deflection		
Vertical curve ordinate		

Note: No camber other than normal mill camber required. To setting screws and form adjustment an adjustment equal to the difference in total dead load deflection and vertical curve ordinate must be made.

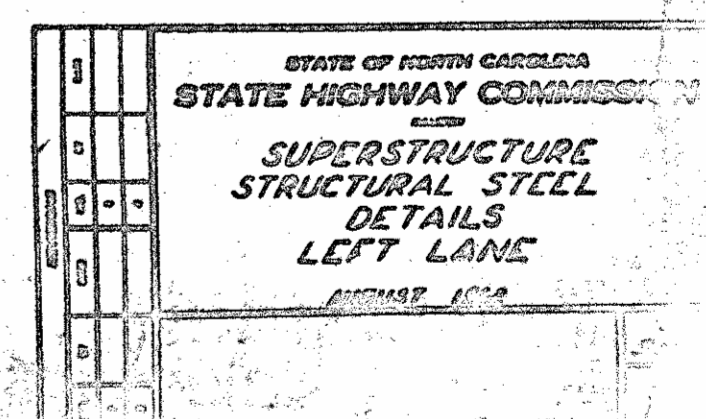


DRAIN DETAIL
No. Reqd. 5/6
Note: Drains to be set w/ 1/2 inch steel pipe. Drains to be given two flat coats of aluminum paint.

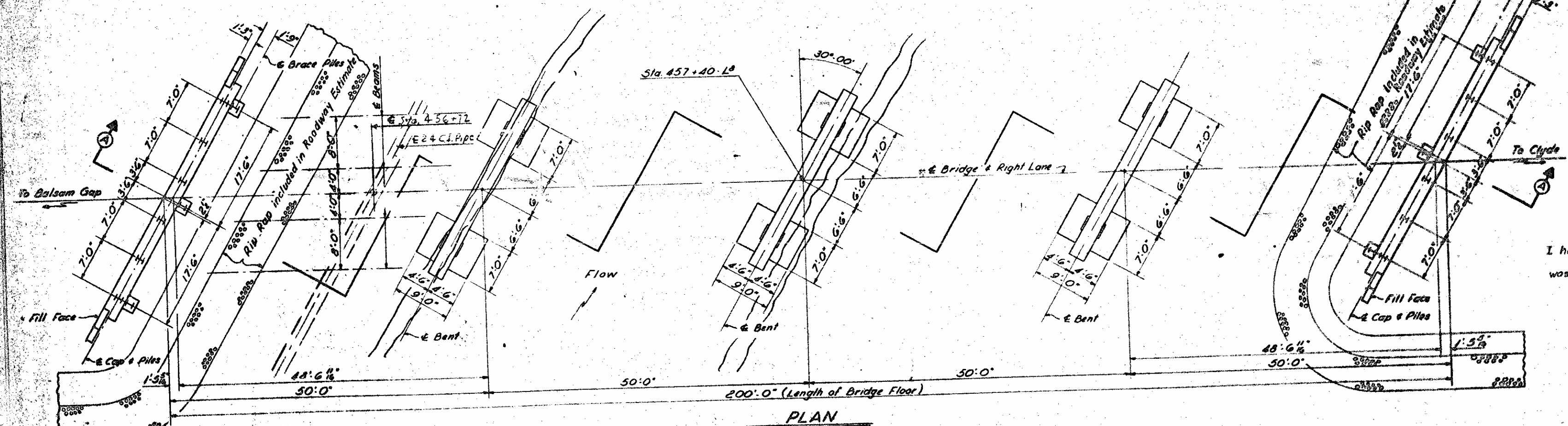
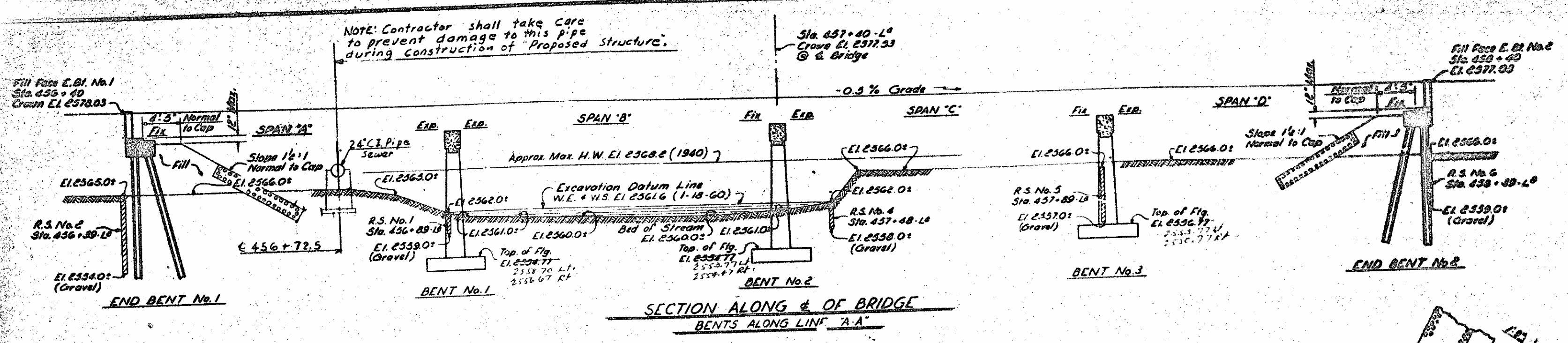
Revised List of P.P. P's	
P.P. - 32	P.P. - 1
P.P. - 16	P.P. - 2
P.P. - 16	P.P. - 3
P.P. - 4	P.P. - 4
P.P. - 2	P.P. - 5

Note: At the contractor's option Fill R's may be combined with P's.

PROJECT NO. 8.10470
HAYWOOD COUNTY
STATION: 445+75-L



SECOND CYCLE BRIDGE INSPECTION 1981-1982



For NOTES see sheet S-196.

I hereby certify that this structure was built according to plans.
 Signed *[Signature]*
 Resident Engineer

PROJECT No. 919270
 HAYWOOD COUNTY
 STATION 457+40.10

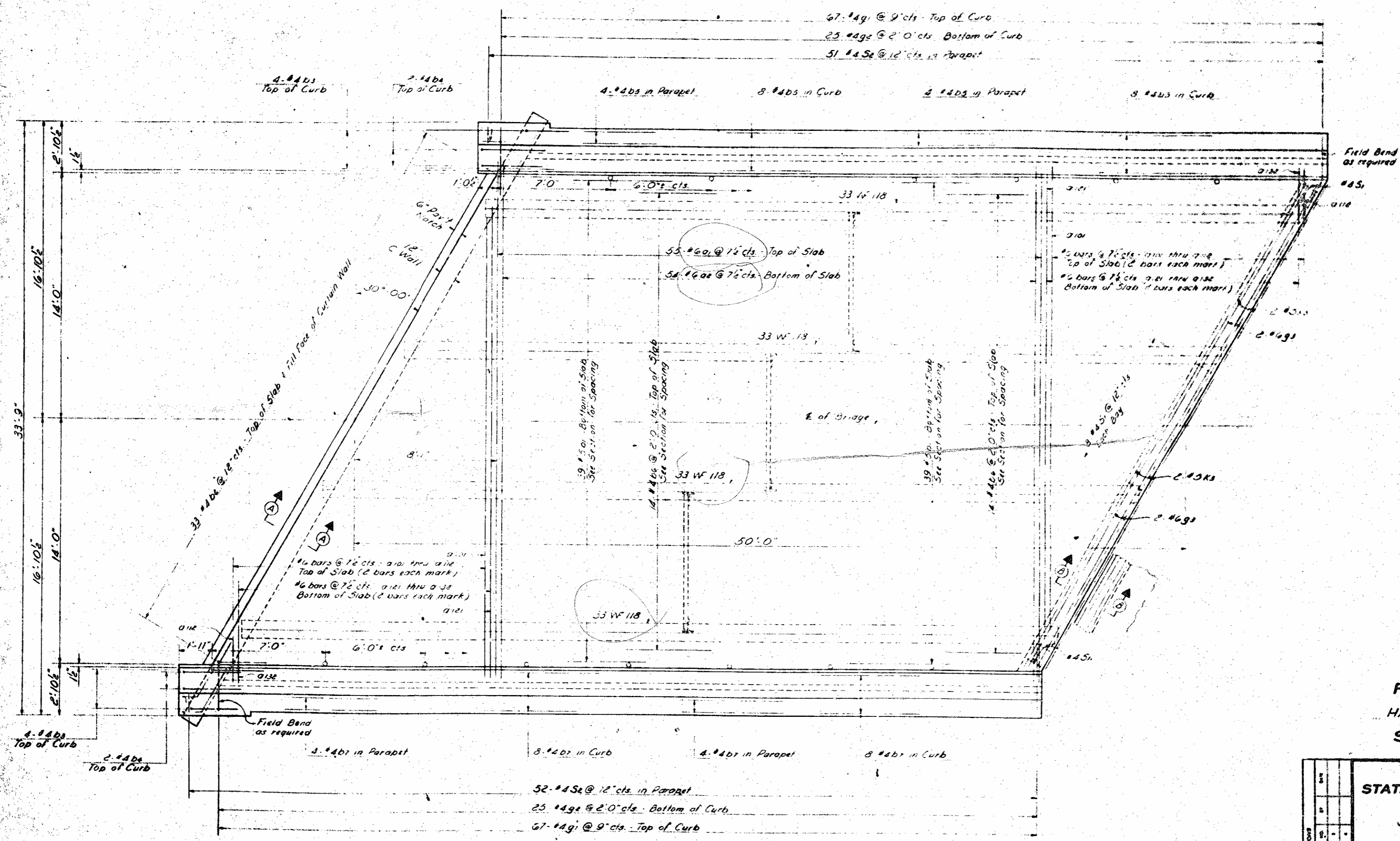
TOTAL BILL OF MATERIAL FOR RIGHT LANE

Class	Reinforcing Steel Cu. Yds.	Structural Steel Approx. Lbs.	10 M 33 Steel Piles No. Lm. Ft.	Excavation Dry Cu. Yds.	Excavation Wet Cu. Yds.	One Bar 1/4" x 11' Lin. Feet	Excavation w/ 3/4" x 11' Cu. Yds.	Excavation w/ 1/2" x 11' Cu. Yds.
Span Structures	2170	117000	10	400	2000	39025		
Bent No. 1	100	5000	2	100	500	1000		
Bent No. 2	100	5000	2	100	500	1000		
Bent No. 3	100	5000	2	100	500	1000		
Abutments	100	5000	2	100	500	1000		
TOTALS	2470	127000	16	800	4000	50025	15.58	1.00

171-174
171

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 GENERAL DRAWING
 FOR BRIDGE OVER BALDWIN GAP
 ON ROAD U.S. 69
 BALDWIN GAP & CLYDE
 RIGHT LANE
 SEPTEMBER 1927

PROJECT	DATE	REVISION
1	8-25-62	
PROJECT # 19470		



PLAN

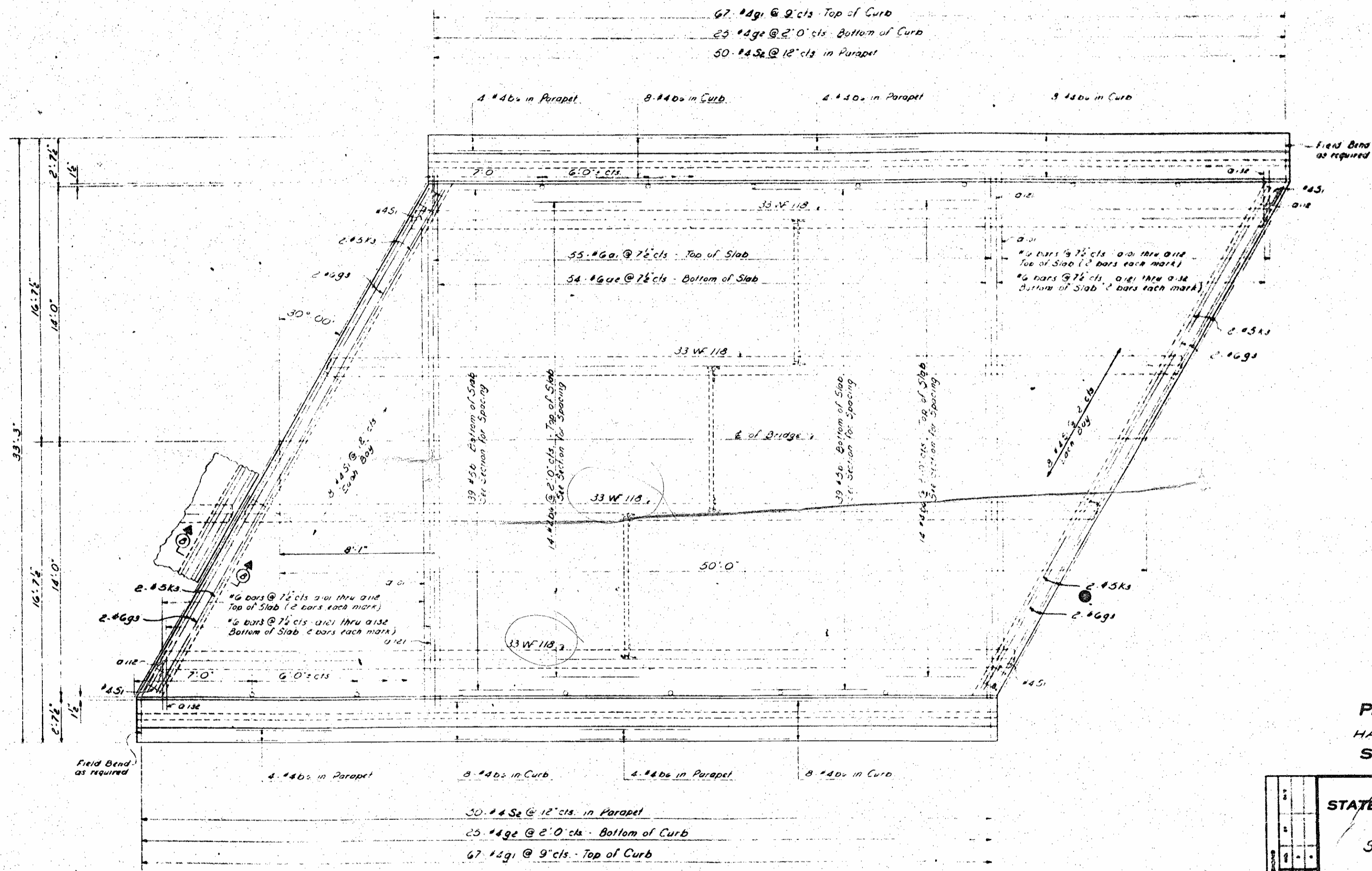
PROJECT No. 8 19470
 HAYWOOD COUNTY
 STATION: 457+40.10

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUPERSTRUCTURE
 SPAN "A" OR "D"
 RIGHT LANE
 AUGUST 1962

REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

70
 TY
 SSIC
 2 OF
 EN

8
 A.L.C.
 P. A. FROSTY P-10-61



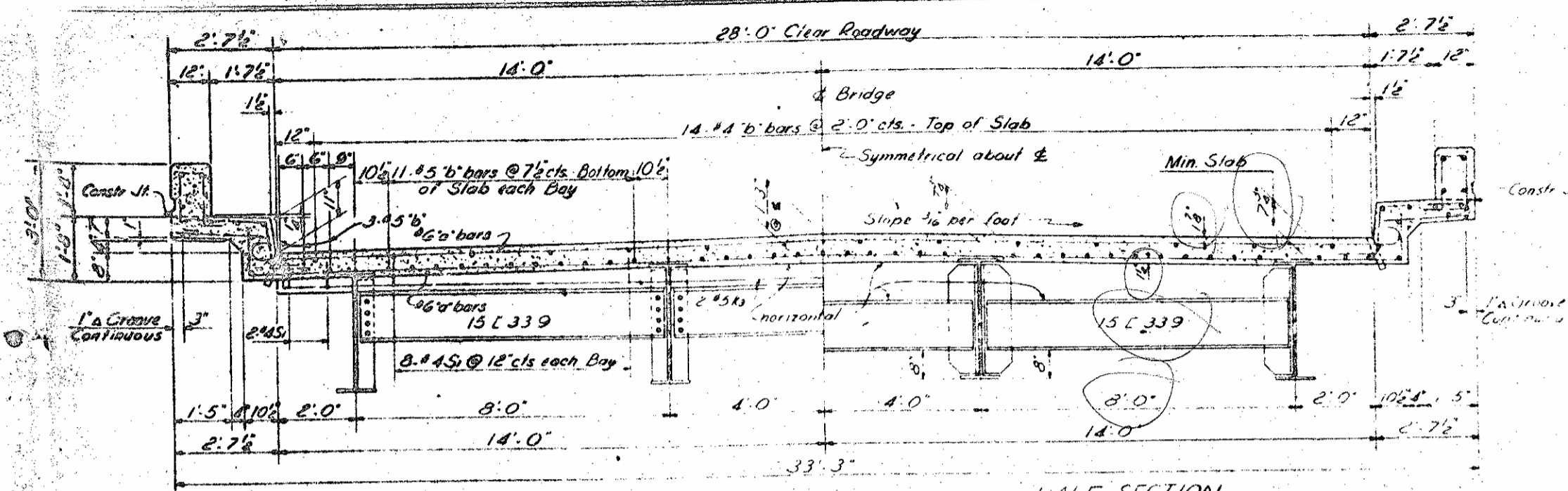
PLAN

PROJECT No. 819470
 HAYWOOD COUNTY
 STATION: 457+40.40

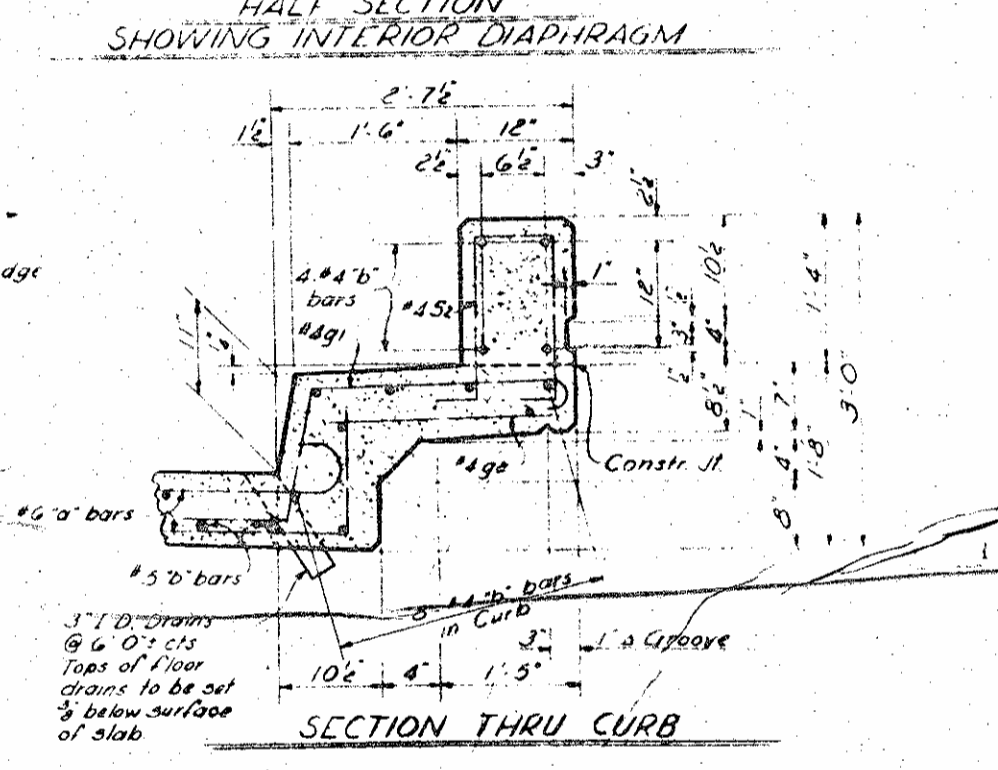
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUPERSTRUCTURE
 SPAN 'B' OR 'C'
 RIGHT LANE
 AUGUST 1967

7961
 Sheets
 208

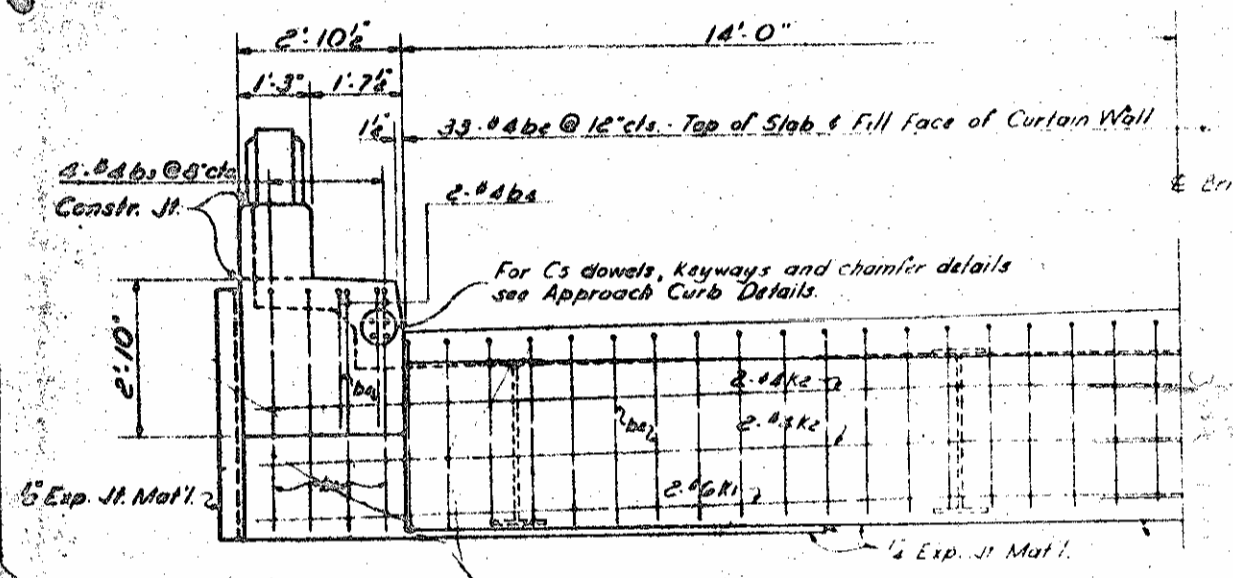
DESIGNED BY: S. L. SANFORD - THOMAS DATE: AUG. 1967
 CHECKED BY: G. R. WOOD DATE: SEP. 1967



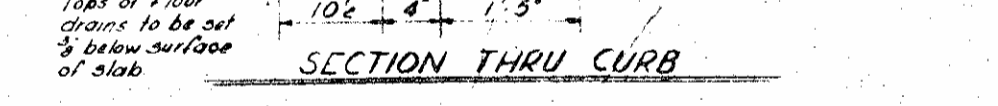
HALF SECTION SHOWING BENT DIAPHRAGM



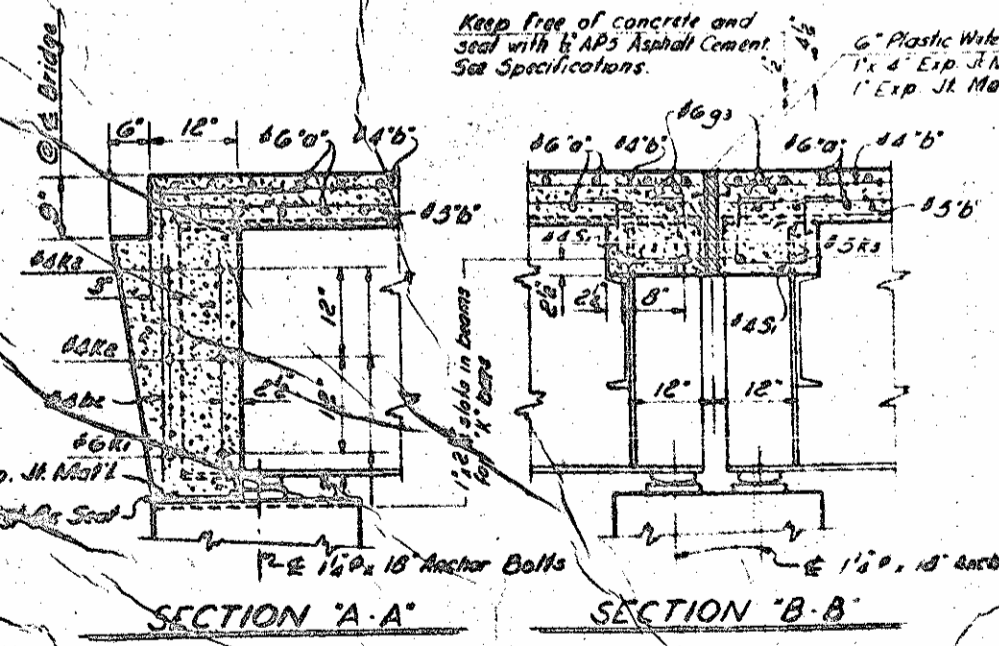
HALF SECTION SHOWING INTERIOR DIAPHRAGM



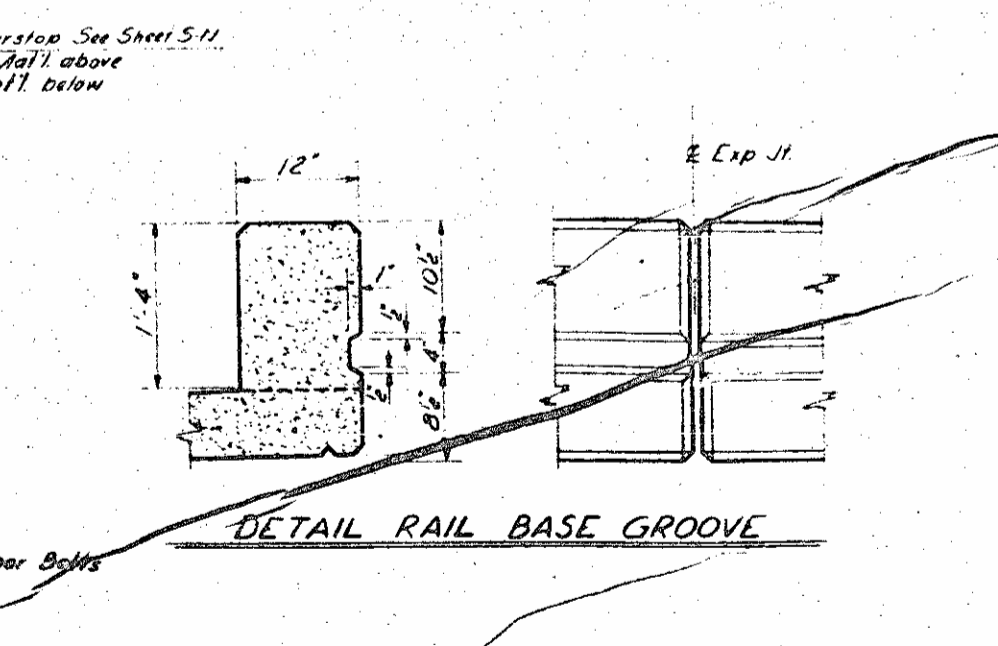
HALF END VIEW



SECTION THRU CURB

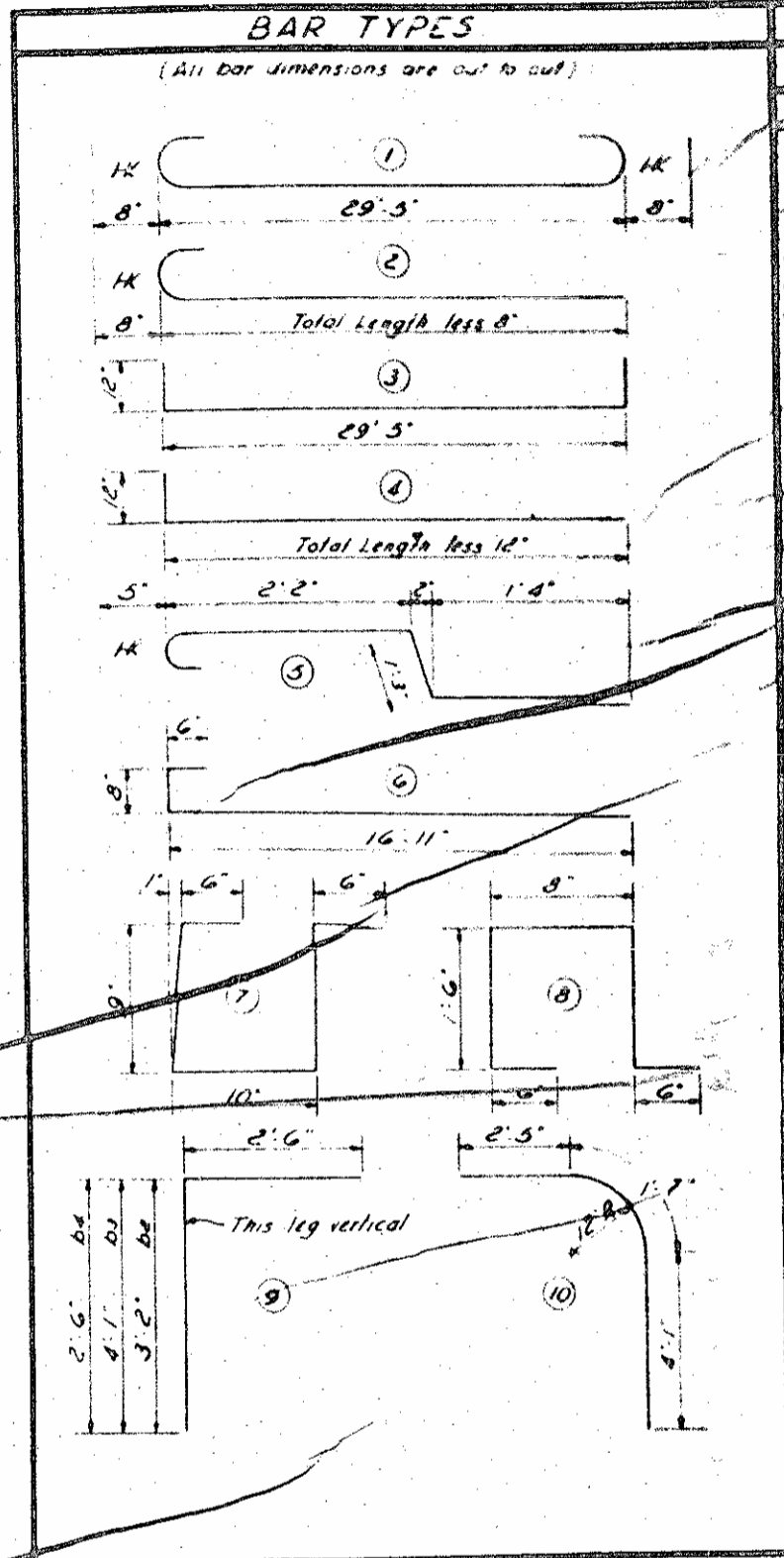


SECTION A-A



SECTION B-B

DETAIL RAIL BASE GROOVE



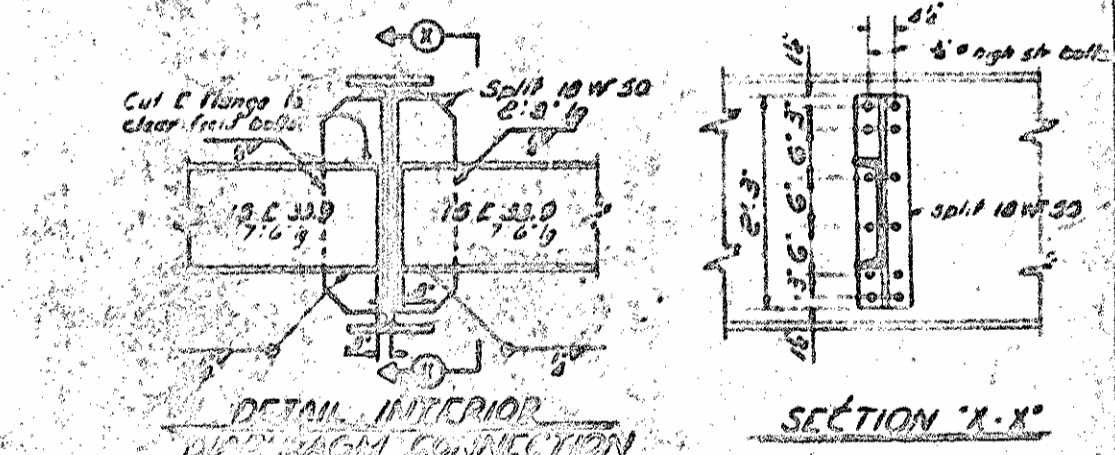
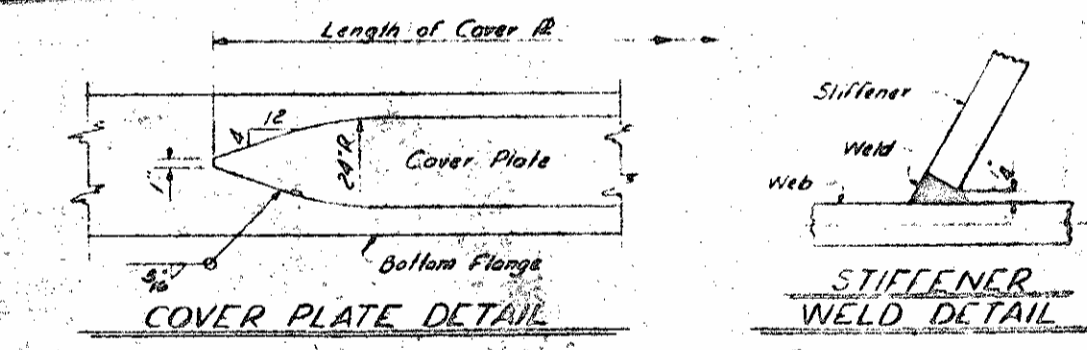
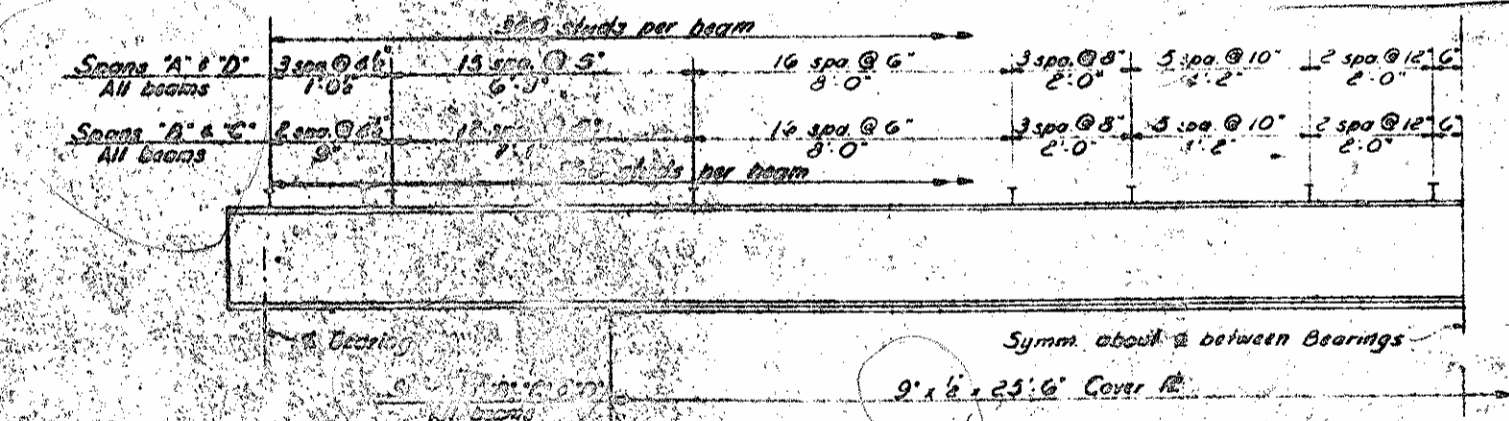
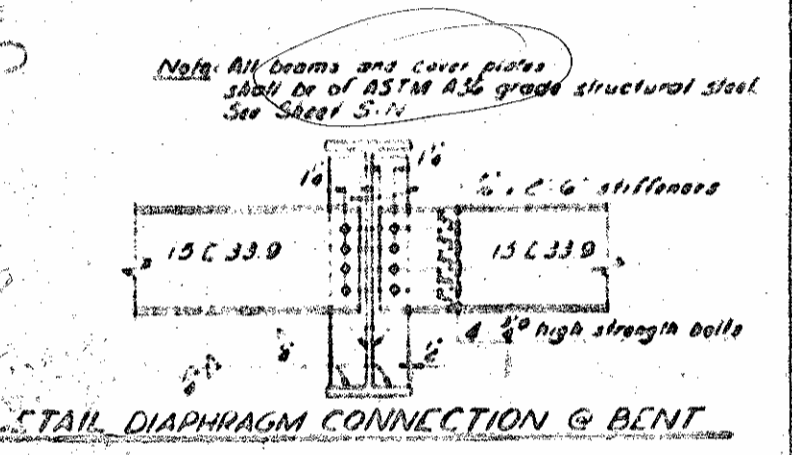
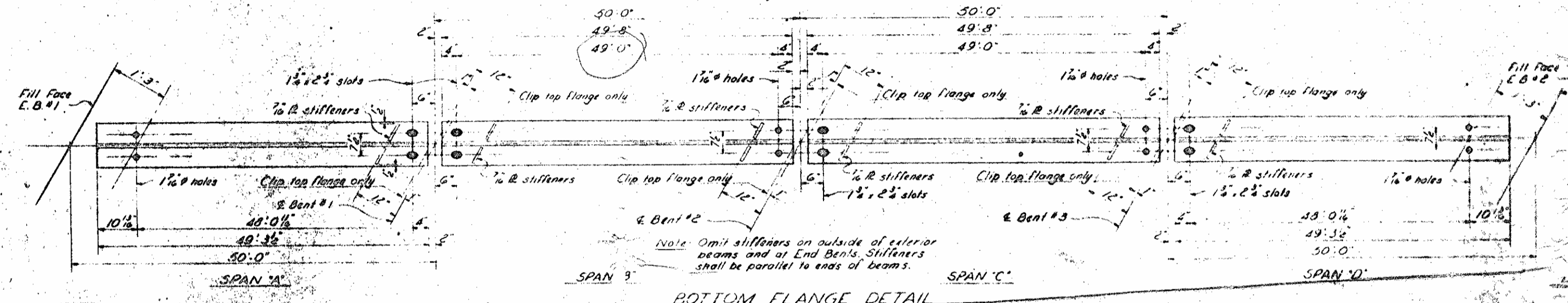
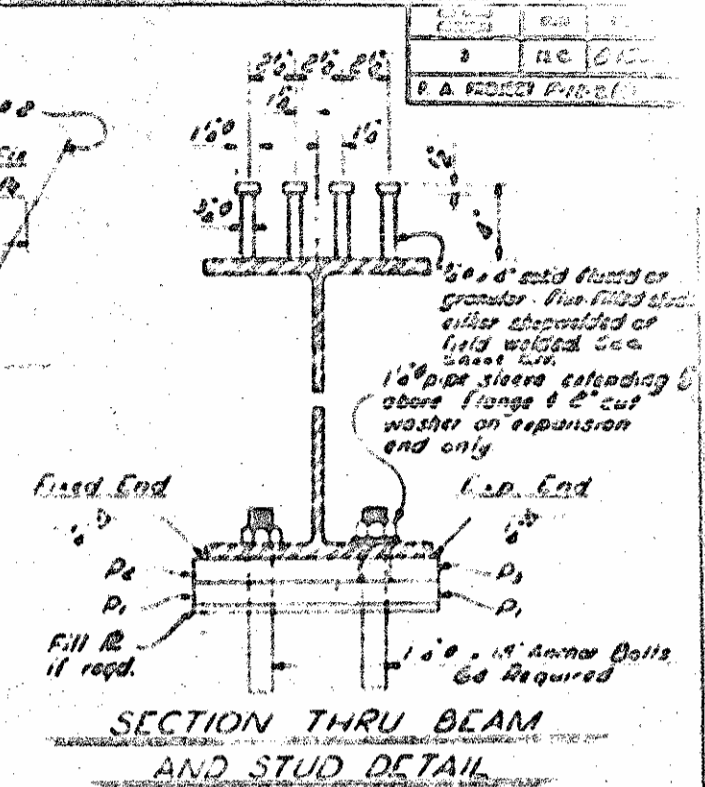
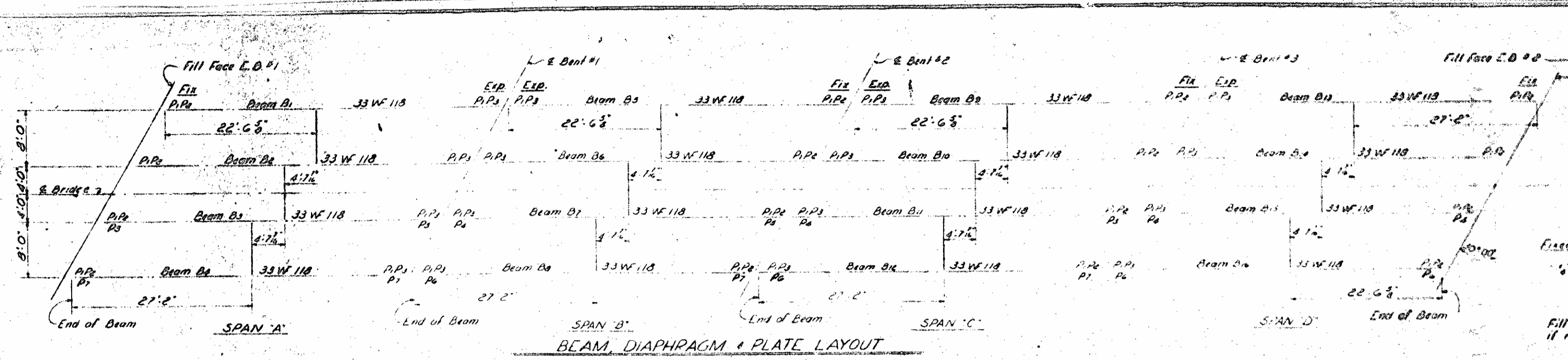
BAR TYPES				BILL OF MATERIAL FOR FOUR SPANS			
NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT
1K	16	29'5"	1016	1	16	29'5"	1016
2	16	29'5"	1016	2	16	29'5"	1016
3	16	29'5"	1016	3	16	29'5"	1016
4	16	29'5"	1016	4	16	29'5"	1016
5	16	29'5"	1016	5	16	29'5"	1016
6	16	29'5"	1016	6	16	29'5"	1016
7	16	29'5"	1016	7	16	29'5"	1016
8	16	29'5"	1016	8	16	29'5"	1016
9	16	29'5"	1016	9	16	29'5"	1016
10	16	29'5"	1016	10	16	29'5"	1016

BREAKDOWN OF CONCRETE QUANTITIES	
SPAN	CU YDS
A	56.8
B	50.6
C	50.6
D	56.8
SPAN A THRU D	214.8

PROJECT NO. 8 19470
HAYWOOD COUNTY
STATION: 437+20.12

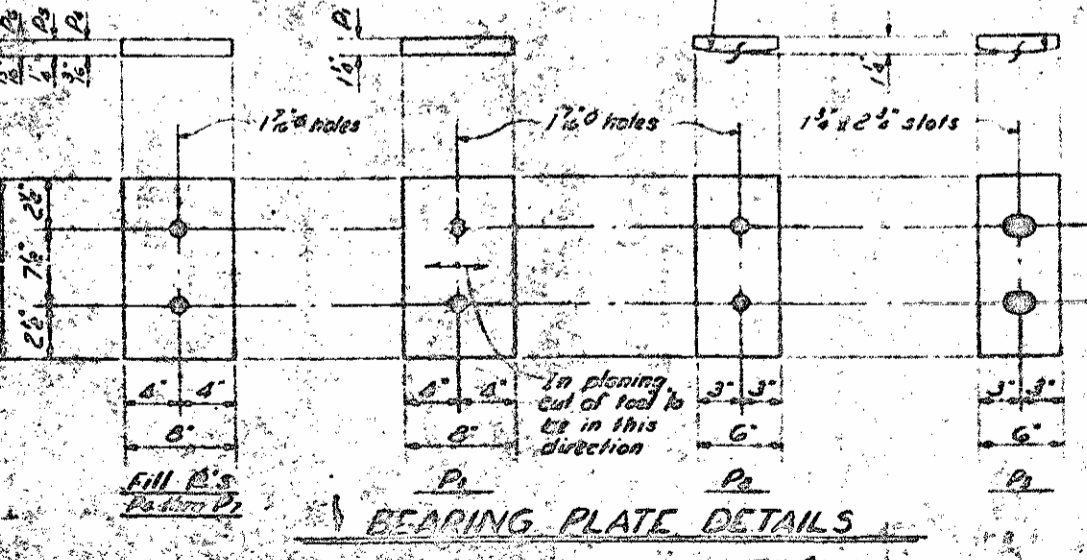
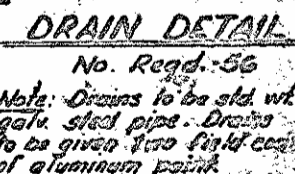
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
SUPERSTRUCTURE
SECTIONS & DETAILS
BAR TYPES & BILL OF MATERIAL
RIGHT LANE
AUGUST 1962

NO.	BY	CHKD.	DATE
1			



DEAD LOAD DEFLECTION

Span	SPANS 'A', 'B', 'C' & 'D'			
	Exterior Beams	Interior Beams	Exterior Beams	Interior Beams
Span A	1/16"	1/16"	1/16"	1/16"
Span B	1/16"	1/16"	1/16"	1/16"
Span C	1/16"	1/16"	1/16"	1/16"
Span D	1/16"	1/16"	1/16"	1/16"



PROJECT No. 819370
HAYWOOD COUNTY
STATION: 457+10.12

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
SUBSTRUCTURE
STRUCTURAL STEEL
DETAILS
RIGHT LANE
 AUGUST 1958

Notes:
 1. Field connections shall be of A36 steel.
 2. All connections shall be made in accordance with AISC Specifications and Special Provisions.

Revised: 1/11/58
 By: [Signature]
 Checked: [Signature]