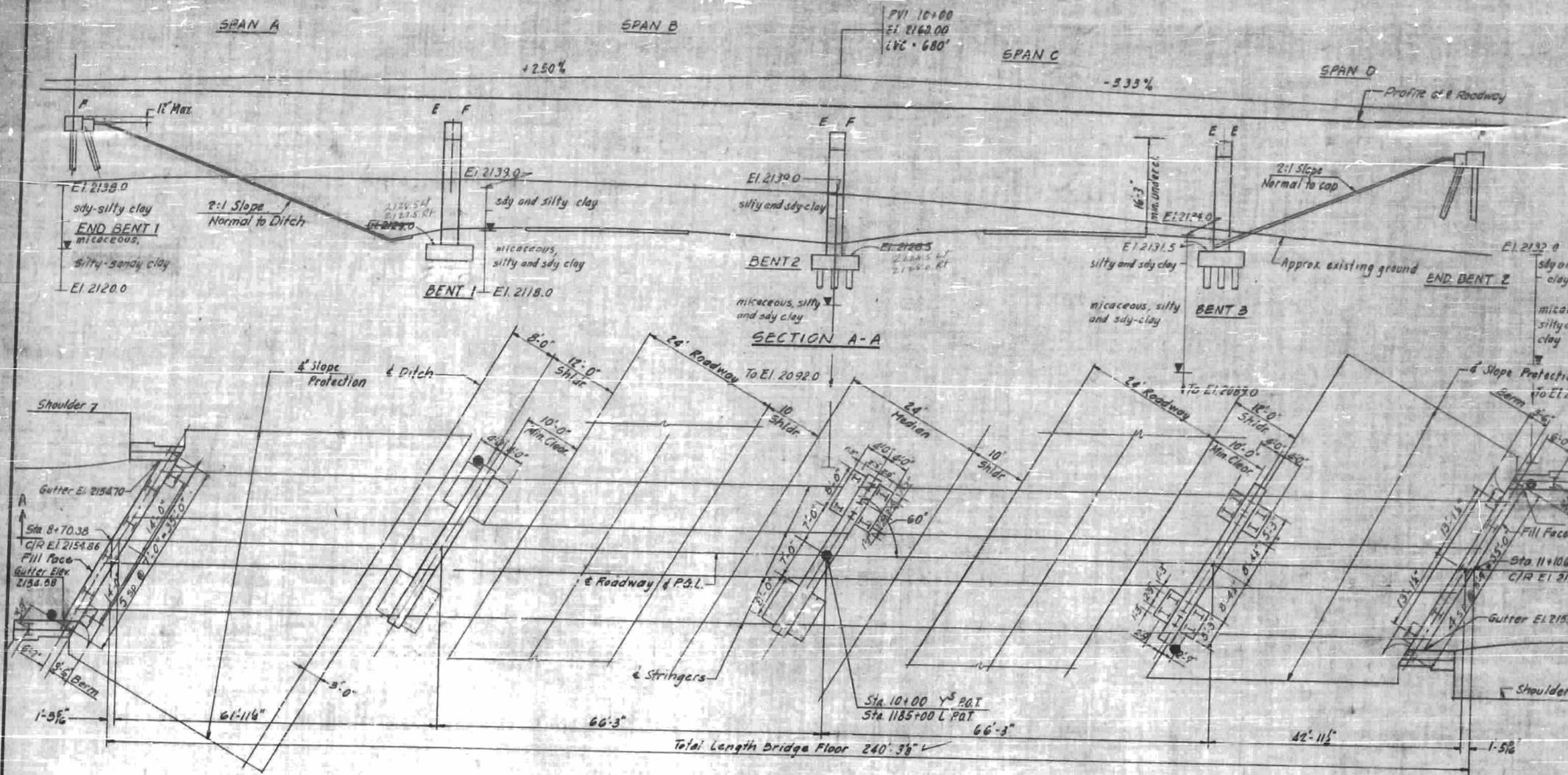


DATE	SHEET NO.	DATE	PROJECT NO.
	456	569	456 569



NOTES

Leading: RA3HO H15-S12-44
20 lbs per sq ft future surfacing

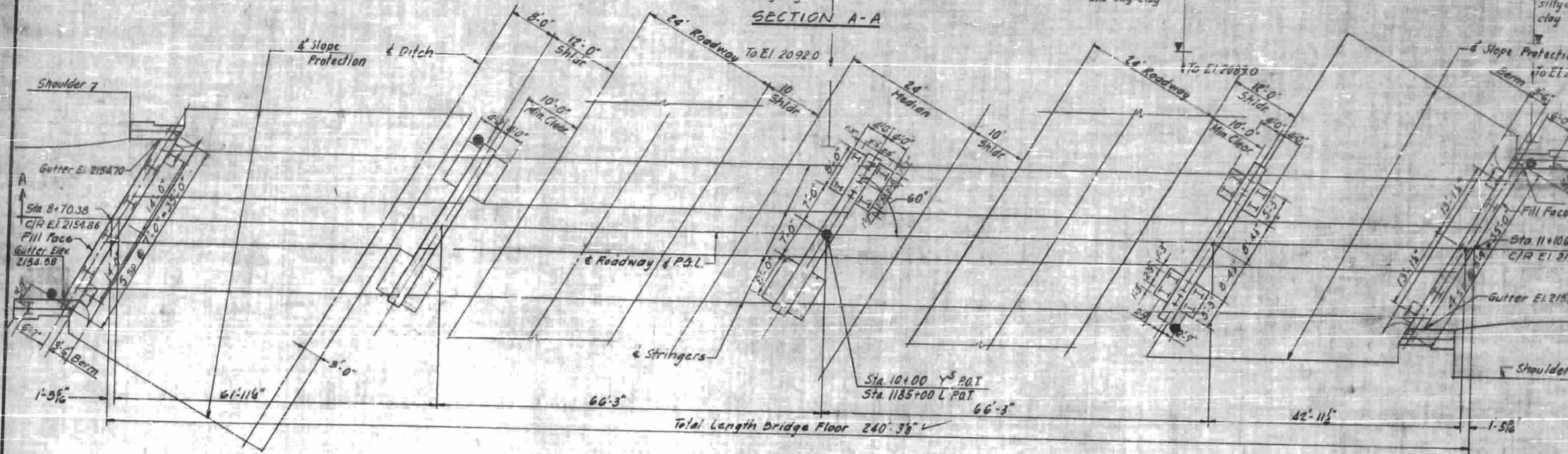
Roadway width: 28'-0" curb to curb

For other design data and general notes see General Notes Sheet.

Concrete surfaces shall be given a surface finish in accordance with the specifications.

The Contractor will be required to drive one 12 BP 55 steel test pile in place of Bents 1 and 3. The test piles shall be paid for as linear feet of 12 BP 55 Steel Piles. The order lengths for all piles shall be given after the test piles have been driven. The test pile at Bent 1 shall be 15' long and at Bent 3 shall be 55' long. All piles at End Bents shall be driven through the roadway fill.

Piles for all Bents and End Bents shall be driven to a minimum bearing capacity of 30 tons.



Traffic will be maintained on existing Clear Creek Rd during construction of the proposed structure on relocated Clear Creek Road.

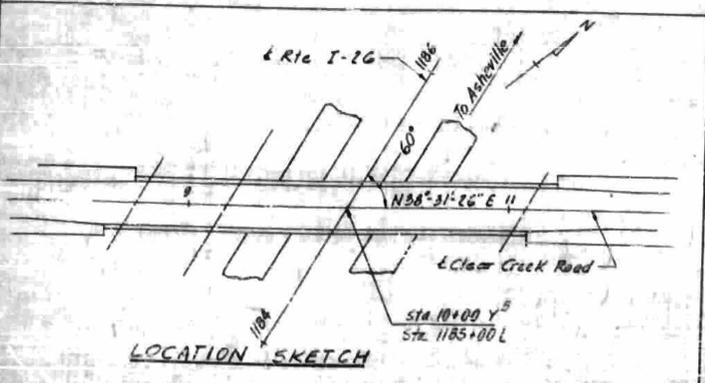
Benchmark: Sta. H.C. Hwy. Marker 30' Right of Sta. 1185+00. Elevation 2152.40

- Indicates boring location
- ▼ Indicates ground water

Work is not to be started on Bents No. 1, 2 & 3 until after the roadway section has been excavated. Unclassified Structures Excavation for Bents No. 1, 2 & 3 shall be measured from the surface of the roadway cut.

I certify that this Structure was built according to Plans except as noted.

RESIDENT ENGINEER



Station	Elevation	Station	Elevation	Station	Elevation
8+55	2154.75	9+55	2155.14	10+50	2154.89
	2154.79		2155.14		2154.64
	2154.82		2155.14		2154.59
	2154.86		2155.13		2154.54
	2154.89		2155.12		2154.49
	2154.93		2155.11		2154.44
	2154.96		2155.10		2154.39
	2154.99		2155.08		2154.32
	2155.01		2155.06		2154.26
	2155.05		2155.05		2154.20
	2155.05		2155.02		2154.14
	2155.07		2155.00		2154.07
	2155.09		2154.97		2154.00
	2155.10		2154.94		2153.93
	2155.12		2154.91		2153.86
	2155.13		2154.89		2153.79
	2155.15		2154.85		2153.70
	2155.14		2154.81		2153.62
	2155.14		2154.77		2153.54
9+50	2154.18	10+50	2154.79	11+50	2153.66

	Class 2 Concrete Cu. Yds.	Reinforcing Steel Lbs.	Structural Steel Approx. Lbs.	12BP53 Steel Piles No. Lin. Ft.	Unclass. Slope Protection Sq. Yds.	Class. Back Slope Protection Sq. Yds.	Metal Rails Lin. Ft.
Superstructure	240.2	51082	170,600	222.4	722.976		487.52
End Bent #1	10.5	3,227		3			
Bent #1	28.0	876	5714	7			
Bent #2	30.2	907	5743	7			
Bent #3	26.2	4,316		7			
End Bent #2	19.0	3,198		8			
Approach Curbs	3.2	76					
Totals	366.379	96558	170,600	366.4	722.976		487.52

Revision No. 3: To eliminate all piles in Dr. #1 and in Rt. 3rd of Bents 1 and 3.

Revision No. 2: To change length of metal rail.

Revision No. 1: To change Reinforcing Steel Quantities.

PROJECT NO. 818203

HENDERSON COUNTY

STATION 1185+00 L
10+00 Y

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

GENERAL DRAWING
BRIDGE OVER PROPOSED
INTERSTATE ROUTE 26
VIA CLEAR CREEK ROAD

APPROVED BY: [Signature]

DATE: [Date]

Column 1 bottom of overhang		Column 2 top of curb		Column 3 1/2 of Beam		Column 4 1/2 of Roadway		Column 5 1/2 of Beam		Column 6 Top of curb		Column 7 Bottom of Overhang	
Dist	Elev	Dist	Elev	Dist	Elev	Dist	Elev	Dist	Elev	Dist	Elev	Dist	Elev
1'-0"	2154.044					9'-7 1/2"	2154.885					8'-2 1/2"	2153.324
10'-0"	107					10'-0"	2154.888					10'-0"	2153.985
10'-0"	186					10'-0"	2155.031					10'-0"	2154.080
10'-0"	227					10'-0"	107					10'-0"	107
10'-0"	250					10'-0"	102					10'-0"	106
10'-0"	264	9+40.00				10'-0"	125	9+30.00				10'-0"	105
2'-4 1/2"	266	8' 8" 1				3'-9"	151	8' 8" 1				2'-1 1/2"	240
10'-0"	270	9+50.00				9'-2"	129	9+40.00				8'-10 1/2"	250
10'-0"	267					10'-0"	142					10'-0"	254
10'-0"	265					10'-0"	121					10'-0"	270
10'-0"	222					10'-0"	121					10'-0"	267
10'-0"	207					10'-0"	111					10'-0"	258
10'-0"	179	10+00.00				10'-0"	102	9+90.00				10'-0"	256
8'-7 1/2"	151	8' 8" 2				10'-0"	2155.045	8' 8" 2				10'-0"	207
1'-4 1/2"	124	10+10.00				10'-0"	2156.989	10+10.00				1'-4 1/2"	202
10'-0"	69					10'-0"	844					8'-7 1/2"	170
10'-0"	2154.007					10'-0"	802					10'-0"	184
10'-0"	2155.955					10'-0"	810					10'-0"	209
10'-0"	805					10'-0"	780					10'-0"	2154.007
10'-0"	767					10'-0"	842	10+80.00				10'-0"	2153.955
10'-0"	689	10+70.00				8'-3"	582	8' 3" 3				10'-0"	855
4'-10 1/2"	619	8' 8" 3				10'-0"	438	10+50.00				10'-0"	706
5'-1 1/2"	583	10+80.00				10'-0"	438	8' 3" 3				7'-7 1/2"	706
10'-0"	449					10'-0"	324	10+80.00				10'-0"	767
10'-0"	324					10'-0"	201					10'-0"	669
10'-0"	194	11+10.00				10'-0"	109	11+10.00				10'-0"	563
9'-2 1/2"	2153.066	Fill Face				0'-7 1/2"	2155.061	Fill Face				10'-0"	449
						2'-0"	2153.300	Fill Face				2'-0"	2153.300

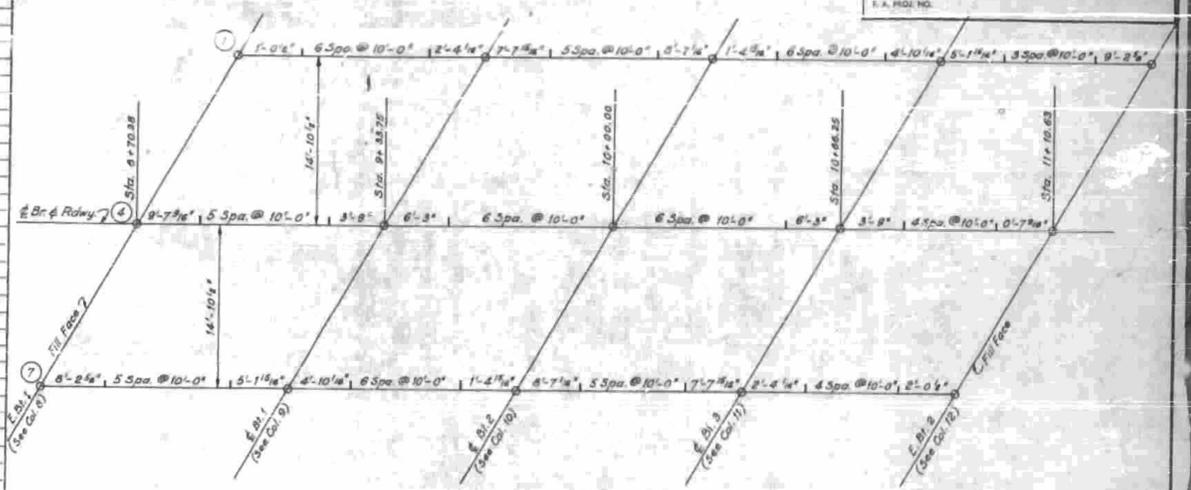
GRADE DATA



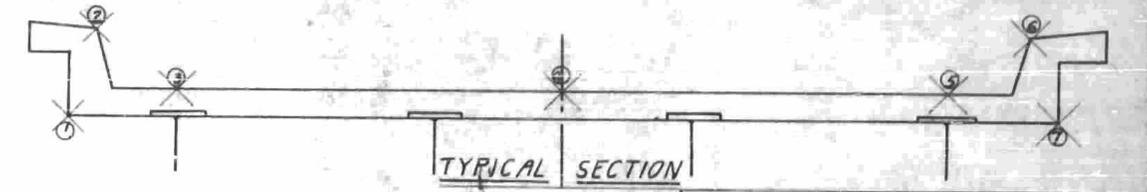
Pi. Sta. 10+00.00
 P.I. Elev. 2160.00
 Length of Curve 880'
 G1 = +2.50% G2 = -3.33%

FED. ROAD DIST. NO.	STATE	PROJECT NO.
8	H. C.	8.18293
P. A. PROJECT 1-26-110112		

NO.	BY	DATE	NO.	BY	DATE
1			2		



PLAN



TYPICAL SECTION

Elevations shown in these tables are final required elevations of the completed structure. In setting up form elevations and screed elevations, provisions must be made for deflections where required.

HEADERS

Column 8 Fill Face of E.B. 1	Column 9 1/2 of Bent 1	Column 10 1/2 of Bent 2	Column 11 1/2 of Bent 3	Column 12 Fill Face of E.B. 2
Point Elev	Point Elev	Point Elev	Point Elev	Point Elev
Lt. Gutter 2154.697	Lt. Gutter 2154.923	Lt. Gutter 2154.760	Lt. Gutter 2154.261	Lt. Gutter 2153.780
.721	.953	.627	.586	.777
.745	2154.903	.883	.587	.885
.769	2155.013	.900	.611	.872
.792	.83	.936	.653	.880
.816	.074	2154.973	.696	2153.967
.839	.102	2155.009	.639	2153.914
.862	.151	.042	.682	.901
.823	.096	2155.018	.662	.946
.783	.065	2154.993	.642	.930
.744	2155.032	.985	.622	2153.916
.704	2154.999	.958	.601	2153.998
.665	.825	.921	.584	.982
.625	.921	.884	.567	.965
Rt. Gutter 2154.585	Rt. Gutter 2154.898	Rt. Gutter 2154.657	Rt. Gutter 2154.440	Rt. Gutter 2153.950

SUPERIMPOSED DEAD LOAD DEFLECTIONS (inches)			
Int.	SPAN	SPAN	SPAN
Ext.			

Note: For Defl. see Struct. Steel Sheet 3-84

PROJECT No. 8.18293
 Henderson COUNTY
 STATION: 1185+00 L
 10+00 Y^S

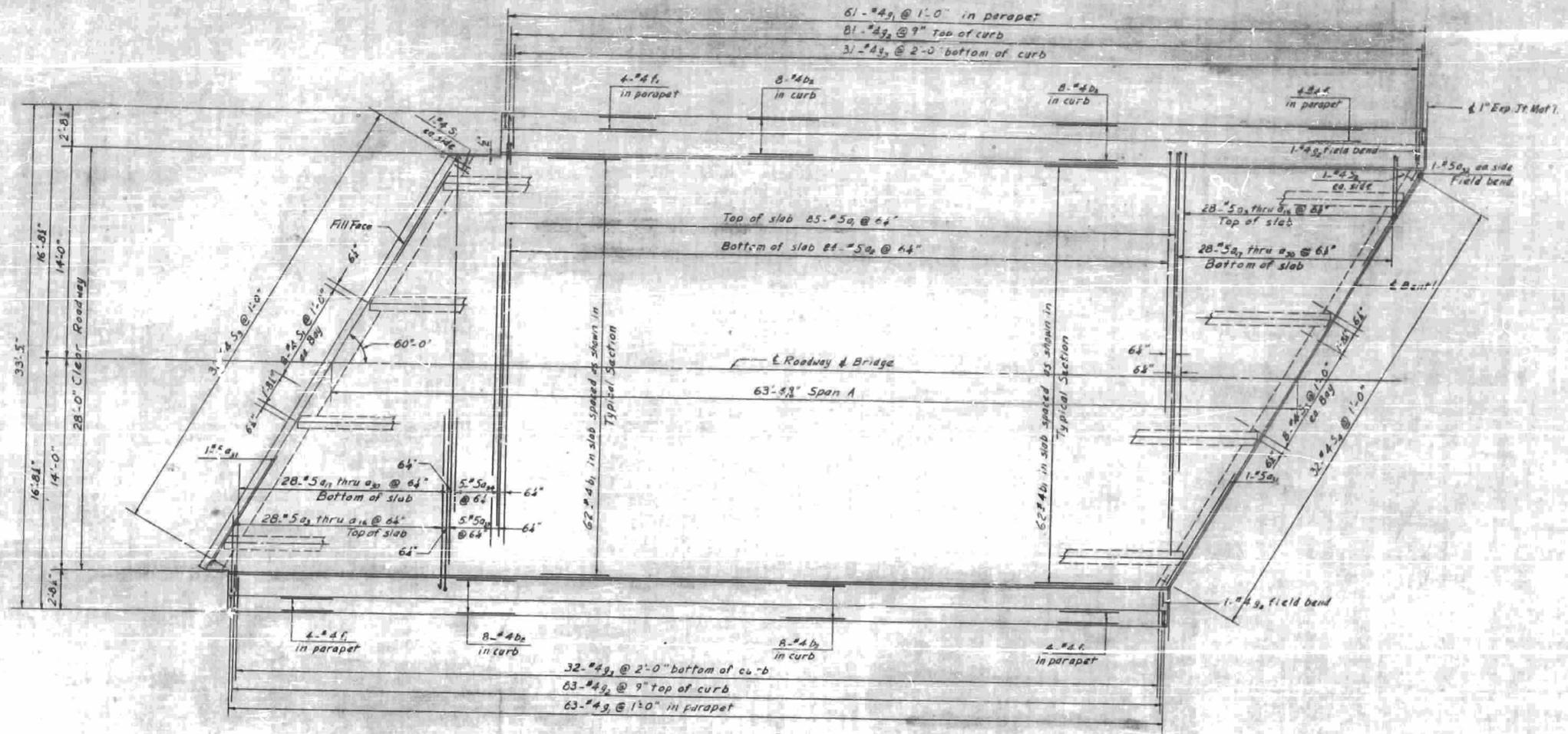
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 RALEIGH
 ELEVATIONS
 FOR
 SETTING UP
 FORMS AND SCREDS

NO.	BY	DATE	NO.	BY	DATE
1			2		

DESIGNED BY: Charles R. Cretler
 DATE: Mar. 11, 1963
 CHECKED BY: [Signature]
 DATE: Mar. 18, 1963

DATE	BY	CHKD	APPROVED

PLAN NO.	459 569
----------	---------



PLAN

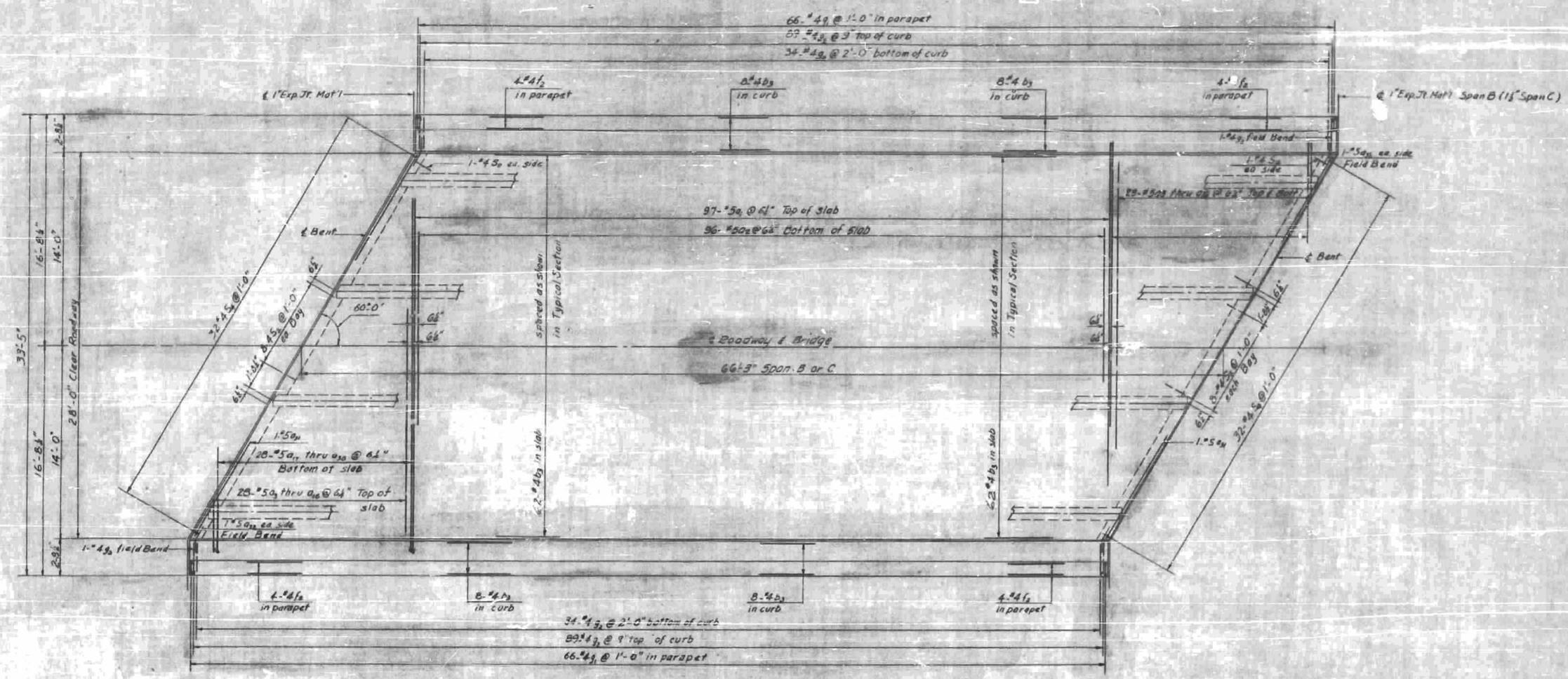
PROJECT NO. 810293
 Henderson COUNTY
 STATION 1105+00L
 10+00Y^E

STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
RALEIGH	
SUPERSTRUCTURE	
SPAN A	

Revision No. 1: To change to bars #4s

NO. 460	DATE	BY	PROJECT NO.
2	11/1/55		
750 and 751 7-15-1 (5) 12			

DATE	BY	PROJECT NO.
		460 569
S.A. NO. 12		

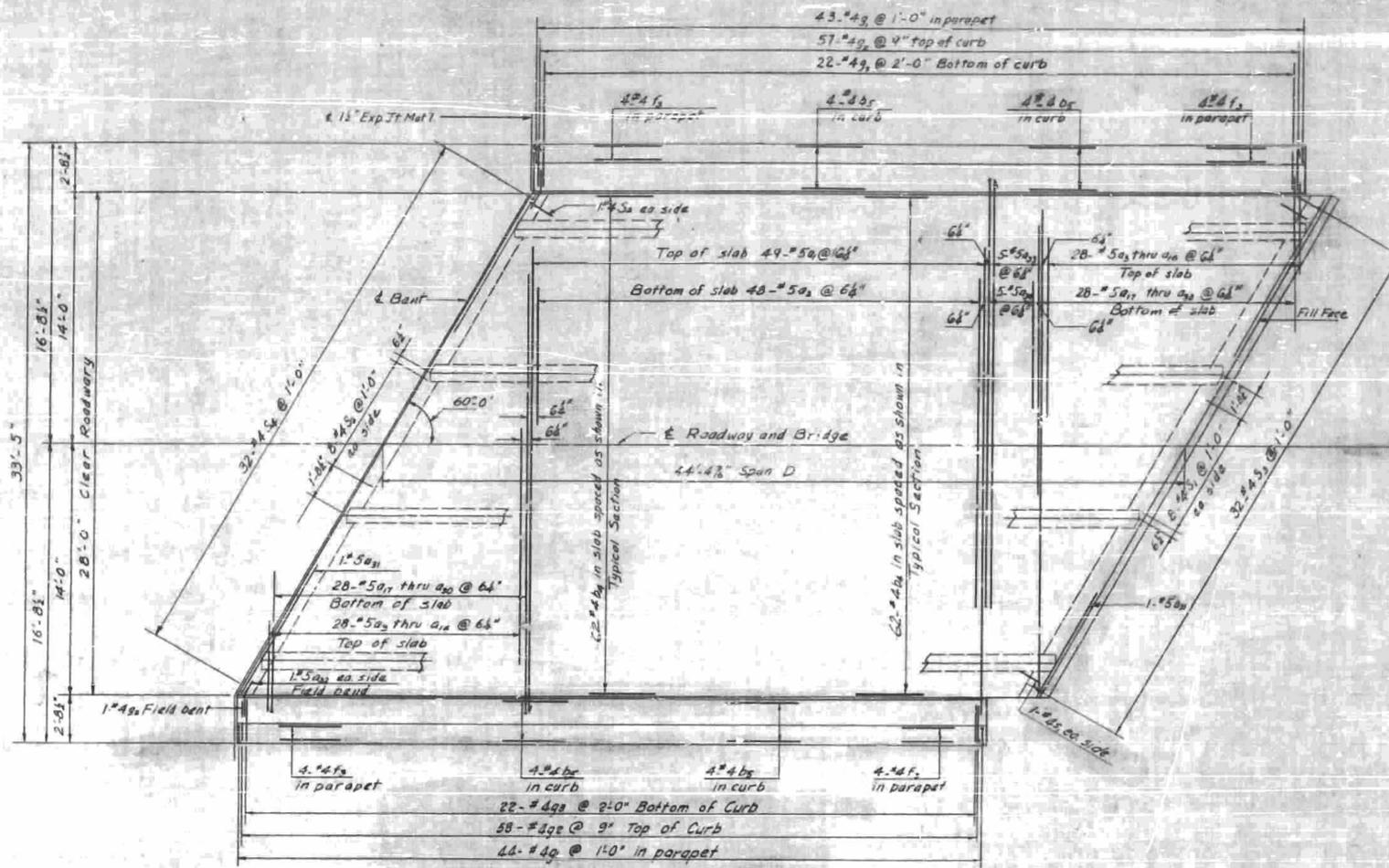


PLAN

PROJECT NO. B.18293
Henderson COUNTY
 STATION 1185+00L
10+00V

STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
SUPERSTRUCTURE	
SPAN B OR C	

Revision No 1: To change 5 bars in slab - JCP

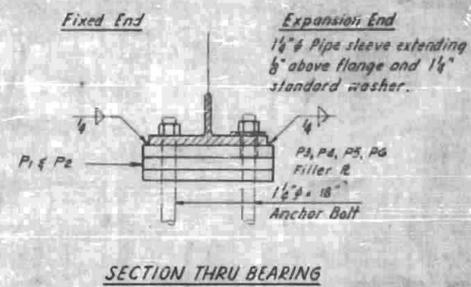
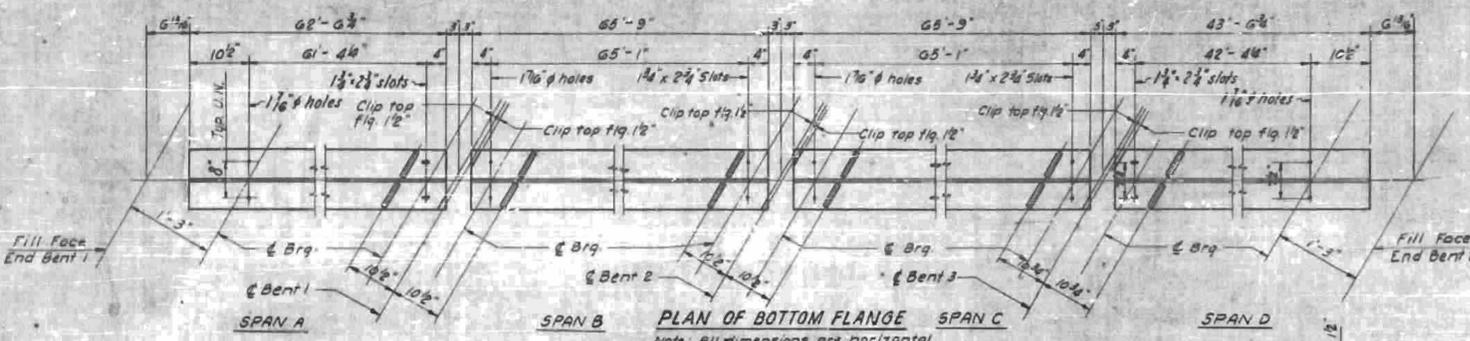
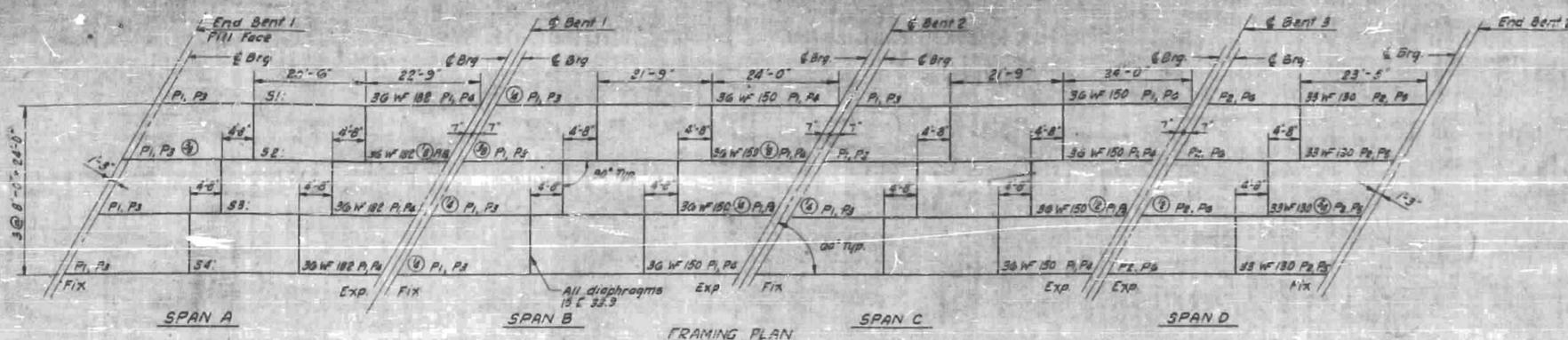


PLAN

PROJECT NO. B. 18293
Henderson COUNTY
 STATION 1185+00L
10+00Y

STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
RELIEF	
SUBSTRUCTURE	
SPAN D	
NO.	DATE
1	8-18-23

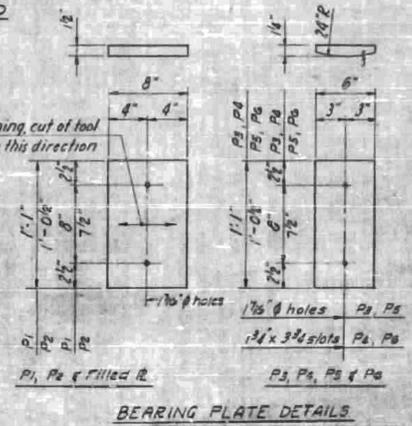
Revision No. 1 to change 5 bars in slab 4-0



SHEAR STUD SPACING AND COVER PLATE LENGTH
 Note: All dimensions along Beam Grade

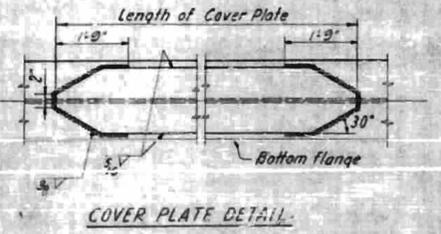
Span	Beam	Spacing	Length	Notes
SPAN A	S1, S4	11 @ 6'-5 1/2"	17'-4"	20.8 Shear Studs
	S2, S3	12 @ 5'-6"	23'	29.1 Shear Studs
SPAN B	S1, S4	11 @ 6'-5 1/2"	17'-4"	20.8 Shear Studs
	S2, S3	12 @ 5'-6"	23'	29.1 Shear Studs
SPAN C	S1, S4	11 @ 6'-5 1/2"	17'-4"	20.8 Shear Studs
	S2, S3	12 @ 5'-6"	23'	29.1 Shear Studs
SPAN D	-	-	42'-4"	(No shear studs)

Cover Plates to be centered between bearings.
 @ 10 1/2" x 3/4" x 45'-6" in Spans "B" and "C" all Stringers

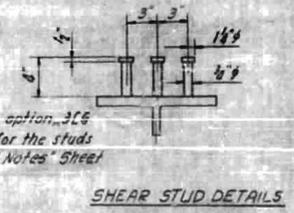


DEFLECTION TABLE

	SPAN A		SPAN B		SPAN C		SPAN D	
	Ext. Bm	Int. Bm	Ext. Bm	Int. Bm	Ext. Bm	Int. Bm	Ext. Bm	Int. Bm
Steel	3/16	3/16	1/4	1/4	1/4	1/4	1/4	1/4
Concrete	1 1/8	7/8	1 1/8	1 1/8	1 1/8	1 1/8	7/8	5/8
Total DL Def.	1 1/2	1 1/8	1 7/8	1 7/8	1 7/8	1 7/8	1 1/8	1 1/8
Vertical Curve	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Total Camber	1 3/4	1 3/8	2 1/8	1 7/8	2 1/8	1 7/8	1 3/4	1 3/8

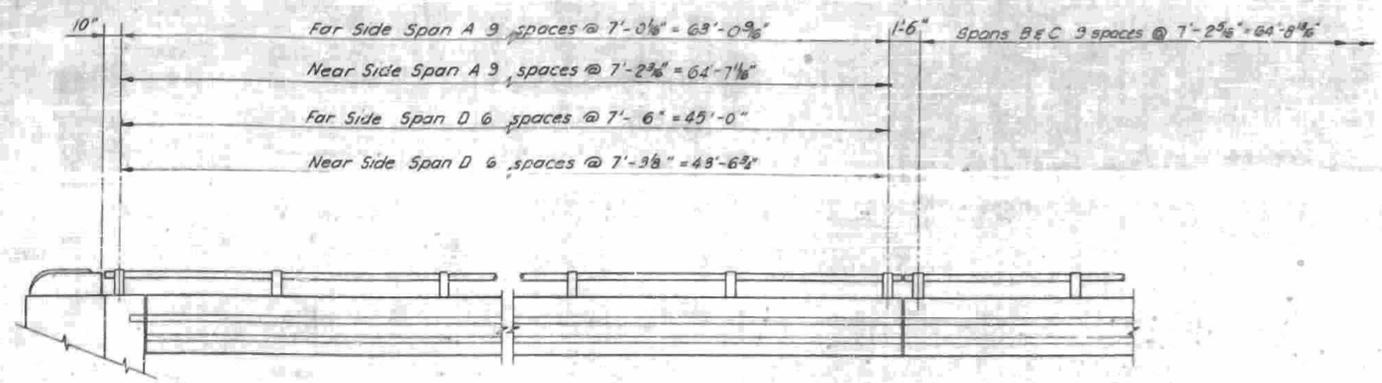


Note: At the Contractor's option, 316 may be substituted for the studs shown. See "Standard Notes" Sheet



NOTES:
 All WF beams, cover plates and channel shear connectors on this sheet shall conform to ASTM-A550 specifications.
 Allowable extreme fibre stress under this specification is 20,000 lbs. per sq. inch.

Revision No. 1: Revised to change bearing plate for right ext beam at E.B. No. 2. 2-4-63 HCC



PARAPET AND RAILING ELEVATION
 Note: Railing Post Spacing given at 6' parapet.

NOTES:

Unless noted on this plan, maximum length of rail section to be two panels plus stick thru.

End of rail to clear face of concrete End Post by 1/2".

For double panel runs of rail set screws shall be set tight at center post and snug at end to allow for expansion.

For single panel runs, set screw to be tight at one end and snug at other end.

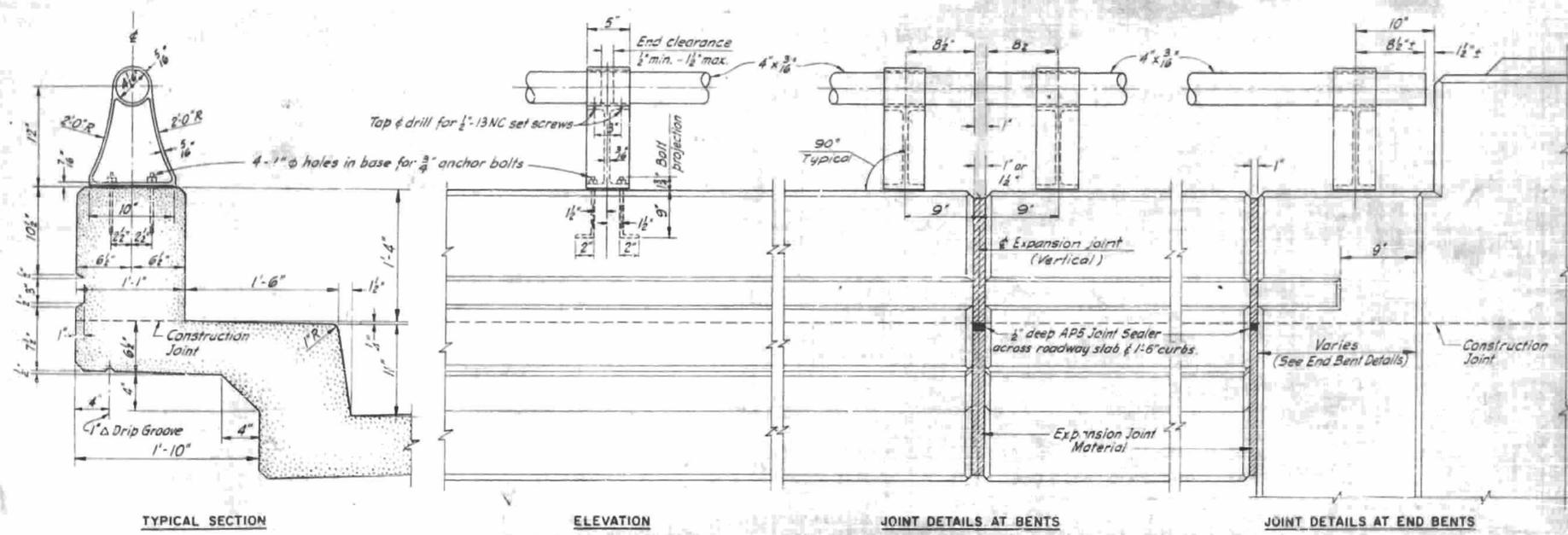
Anchor bolts, hex nuts and washers to be steel galvanized in accordance with ASTM A-153 and painted with 2 coat of aluminum paint after erection.

Cast posts to be as shown or an approved equal.

Certified Mill reports are required for rails and posts. Shop inspection is not required.

Metal Rail Posts to be set normal to curb grade.

Method of measurement for Metal Rails: Unless otherwise stated, the length of Metal rails to be paid for shall be the continuous horizontal length measured from end to end of rail, excepting concrete posts, but without deductions for spaces between rail sections.



PARAPET AND RAILING DETAILS

At the Contractor's option metal rail may be either Aluminum or Galvanized Steel in accordance with the requirements of the general notes and the following specifications for the alternate materials; however, the Contractor will be required to use the same rail material on all structures on the project for which metal rail is designated.

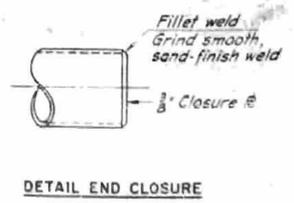
ALUMINUM RAILS

Aluminum alloys are to be as follows:
 Cast Rail Posts 4356-T6
 Round Tubular Rail 6061-T6 or 6062-T6
 Set Screws 2024-T4
 Closure Plates 6061-T6 or 6062-T6
 Round Tubular Rails are to be of 4" O.D. with 1/8" minimum wall thickness.
 The base of rail posts, or any other aluminum surface in contact with concrete shall be thoroughly coated with an aluminum impregnated caulking compound of approved quality.

~~Material and galvanizing are to conform to the following specifications:~~
 Cast Rail Post Malleable cast iron, ASTM A-47
 1/2" x 3/16" Galvanized to ASTM A-123
 Cast Steel, AASHTO M-182-60
 Closure Plates Galvanized to ASTM A-123
 Standard 3/4" Steel Pipe, ASTM A-53 Galvanized
 4" O.D. Rail Steel, ASTM A-242 Grade C
 Closure Plates Galvanized to ASTM A-123
 6 Shims Standard Steel Cap Screws Galvanized to ASTM A-153.

ALUMINUM RAIL RAILS

The cut ends of galvanized pipe railing, the end closure plate, and the end of the rail shall be thoroughly cleaned by wire brushing to remove all traces of welding flux and loose or cracked spatter, after which these cleaned areas shall be given two coats of zinc primer meeting the requirements of Federal Specification MIL-P-26293 (USAF) Type I.



PROJECT NO. 818293
 Henderson COUNTY
 STATION 1185+00L
 10+00Y5

STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
RAILROAD	
PARAPET AND RAILING DETAILS	
DATE	BY