

Notes:

Assumed - L - 7420 516-(44)
 For other design data refer to notes. See S.D. 511.

All exposed concrete surfaces to be finished in accordance with the specifications.

End Bent piles to be driven to roadway fill.

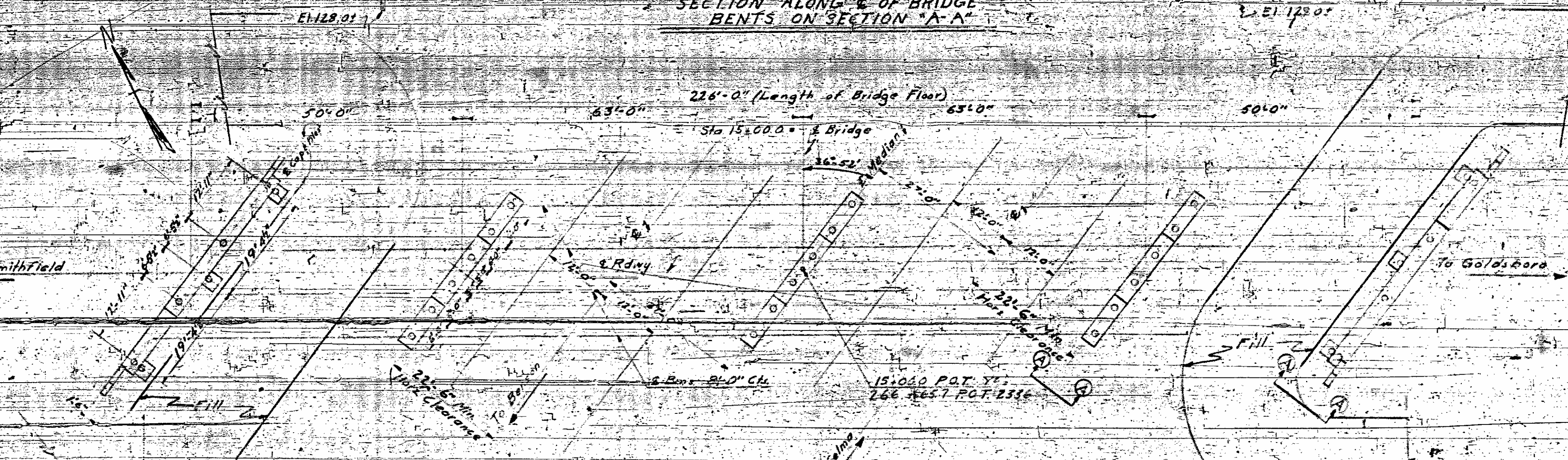
All piles to be driven to a bearing capacity of 40 tons or more.

Before driving end bent piles fill to be excavated to El. 159.0 for End Bent #1 & 2. See Special Provisions. Excavation will not be measured and paid for as a separate item. The cost to be included in the unit price of the several pay items.

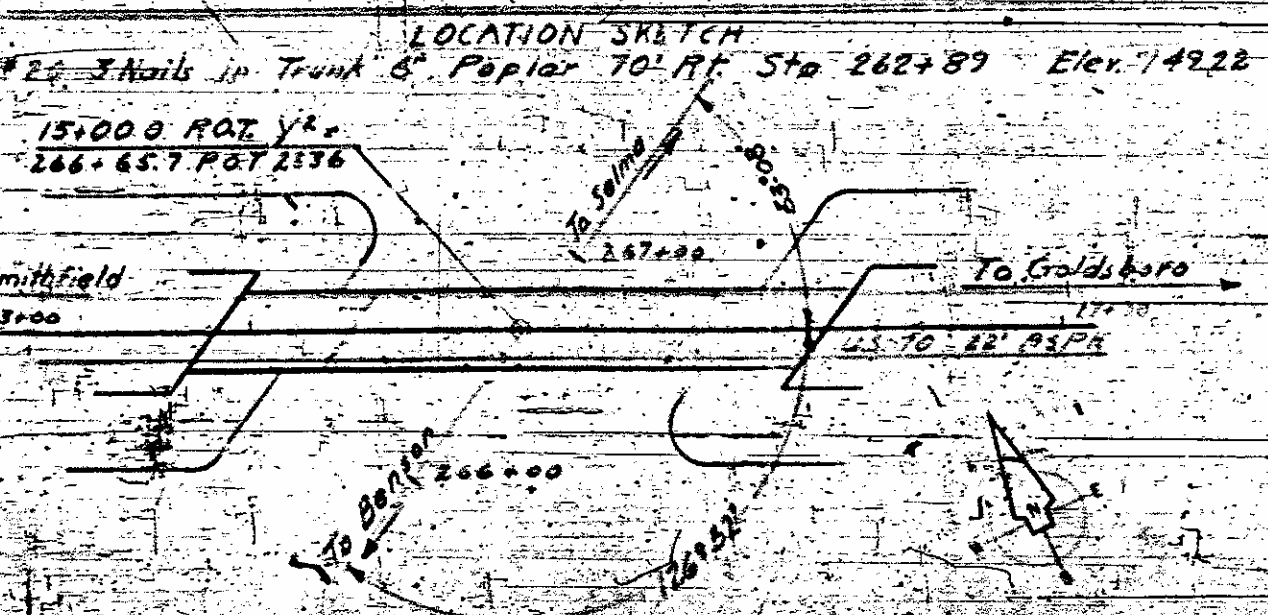
The contractor will be required to drive one 20" octagonal uncoak timber test pile in a location specified by the engineer to determine the length of concrete piles. See specifications.

Traffic on U.S. 70 will be detoured during construction of the structure. See Special Provisions.

SECTION ALONG C OF BRIDGE
 BENTS ON SECTION "A-A"



Brig #66



PLAN

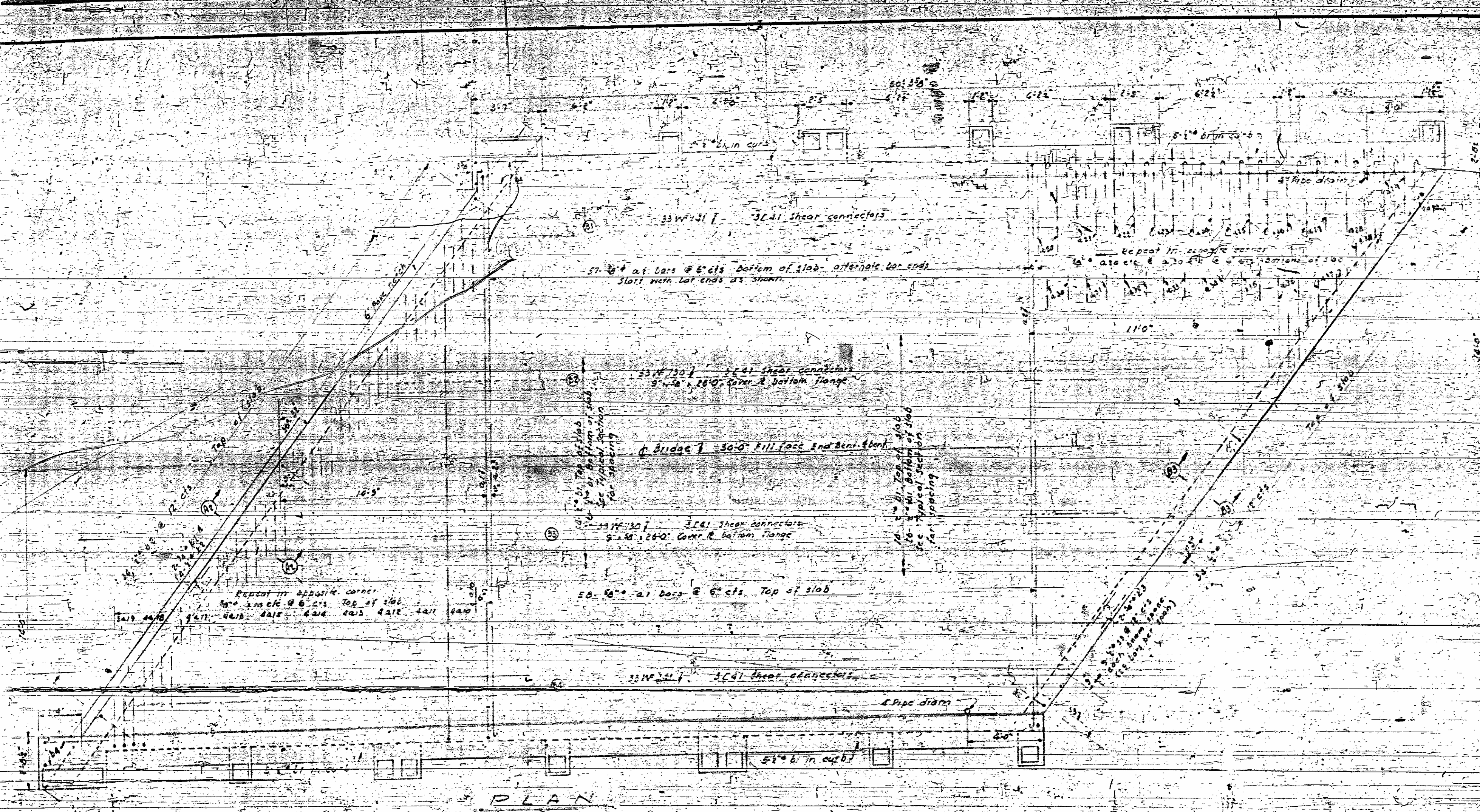
	CLASS. REIN.		STEEL		STRICT METHODS		UN-DRILLED	
	CONG.	STEEL	STEEL	CONC.	PILE	WATER	PROOFING	YIM. TEST PILE
SUPERSTRUCTURE	205.8	41999	156,800		32	YDS	22	
END BENT 1	16.1	3251			7	250		
BENT 1	9.2	1630			6	210		
BENT 2	9.1	1630			6	210		
BENT 3	9.2	1630			6	210		
END BENT 2	16.1	3251			7	250		
25" PRE. PILES								
APPR CURBS	3.2	76						
TOTAL	268.4	74,651	156,800		32	250	22	1

PROJECT NO. 2336
 JOHNSTON COUNTY
 STATION: 266 + 65.7 & Median

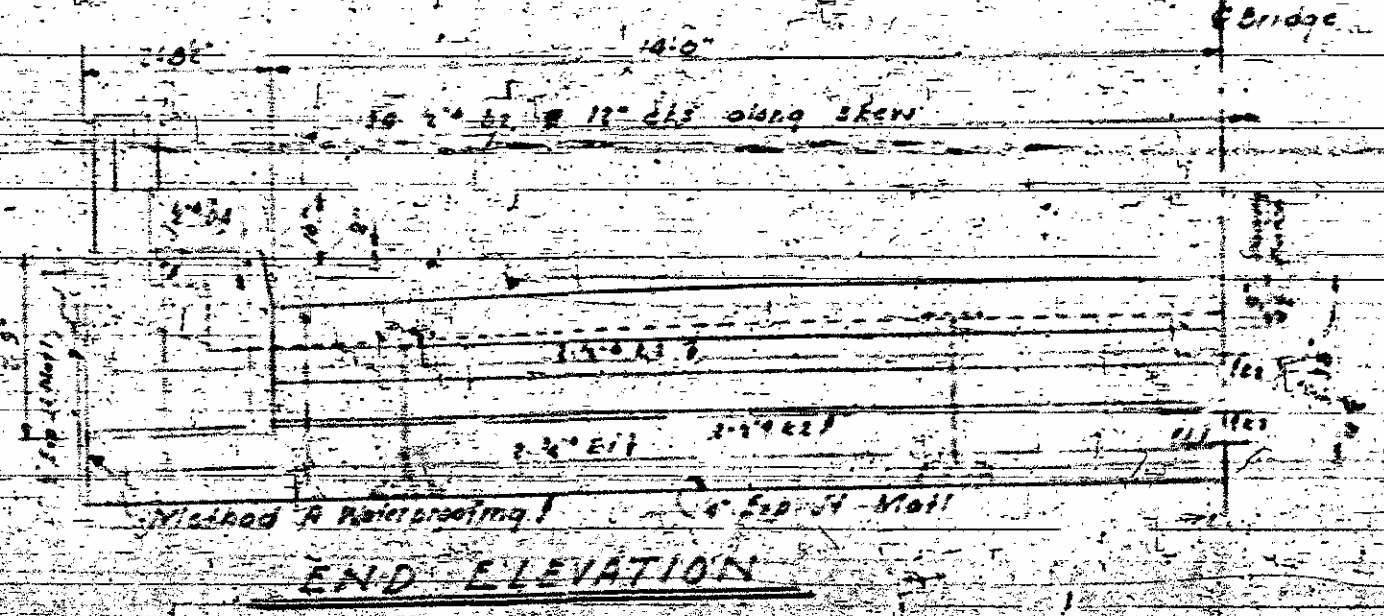
STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 GENERAL DRAWING
 BRIDGE OVER PROP. U.S. 301
 ON U.S. 70 BETWEEN
 SMITHFIELD & GOLDSBORO
 NOV. 1954

NOTE

Maximums Dead Load Deflection for Span A & B
 Exterior Beams
 Interior Beams
 Vertical Curve ordinate Span A & B
 Concrete Sections see Sheet S. 6



PLAN



END ELEVATION

PROJECT NO. 2116
JOHNSTON COUNTY
STATION 255+52.5

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 SUPERVISOR
 CONCRETE PLAN
 NOVEMBER 1950

1	1	1
1	1	1
1	1	1
1	1	1
1	1	1

522
 37

22 E.P. 112
 Cont. No. 183

See joint
 Cont. No. 182

5' x 4.5' in curb

1/4" steel shear connectors
 spaced at 16" o.c.

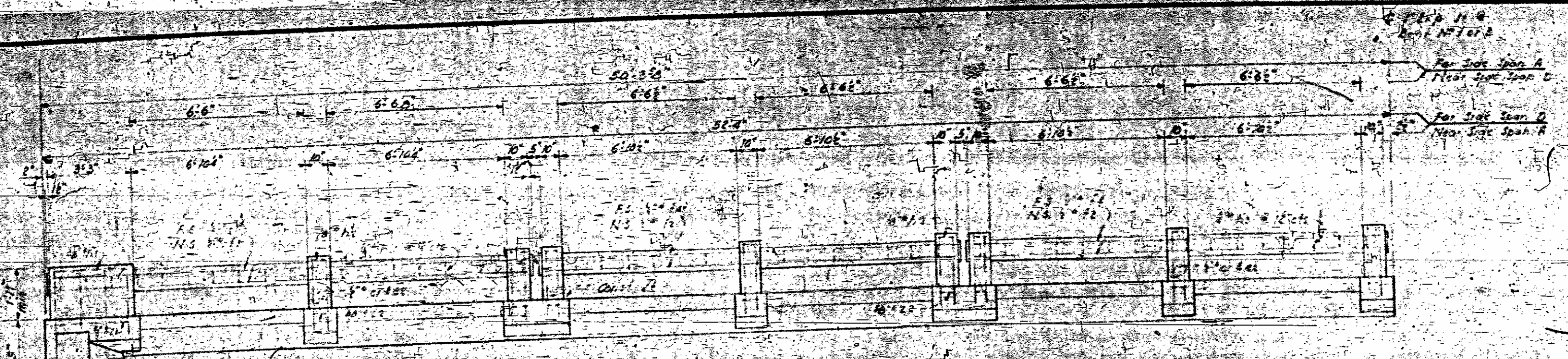
1/2" x 4" x 8" concrete slab alternate for ends
 fill with ends as shown

PROJECT NO. _____
 COUNTY _____
 STATION: _____

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION

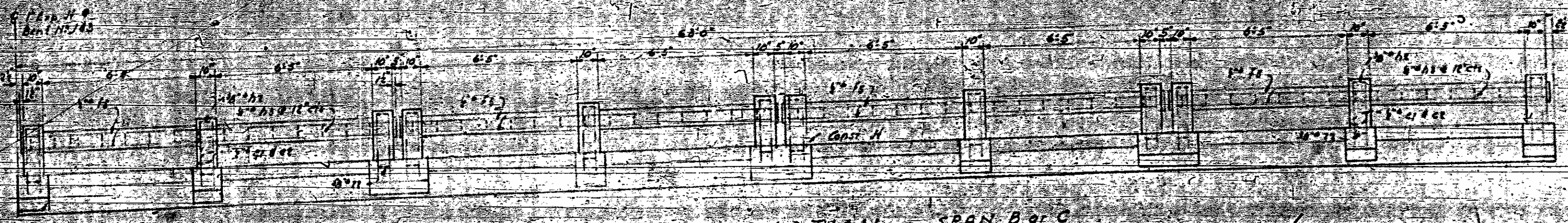
DATE	BY	REVISION

NO. 1	DATE	BY	SCALE	SHEET NO.	TOTAL SHEETS
1	11/1/54	M.C.	1/8" = 1'-0"	39	39

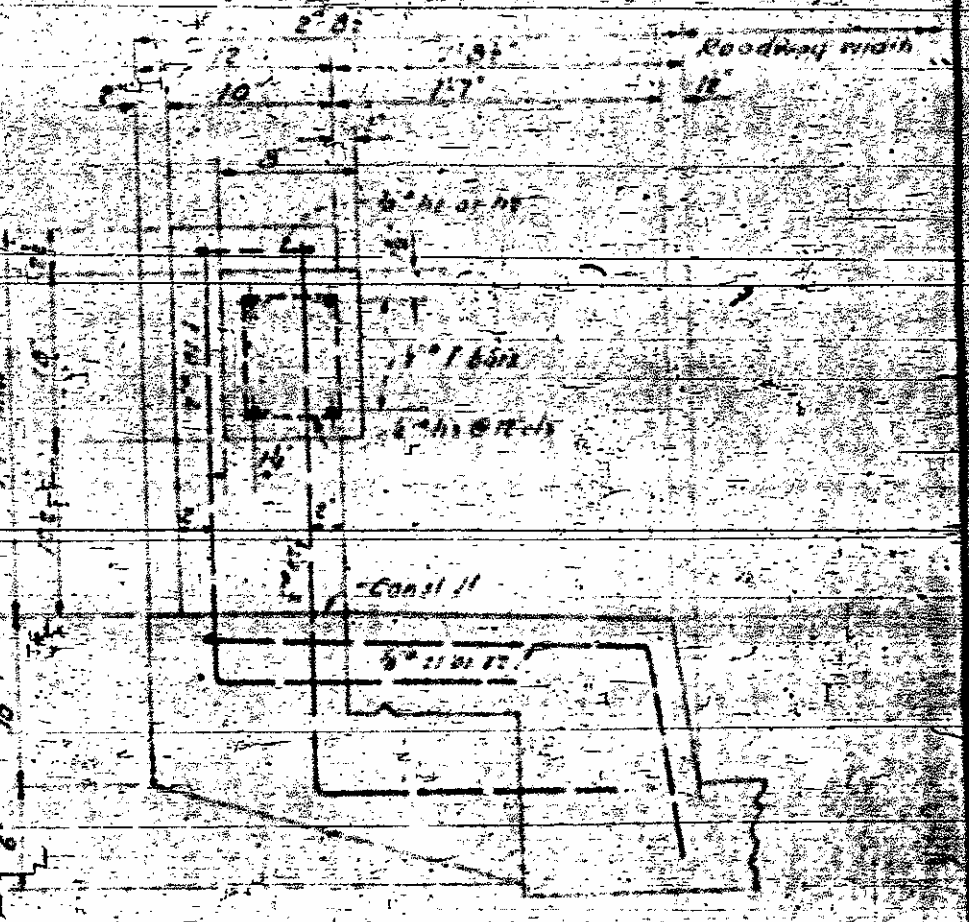


RAIL ELEVATION SPAN A or D

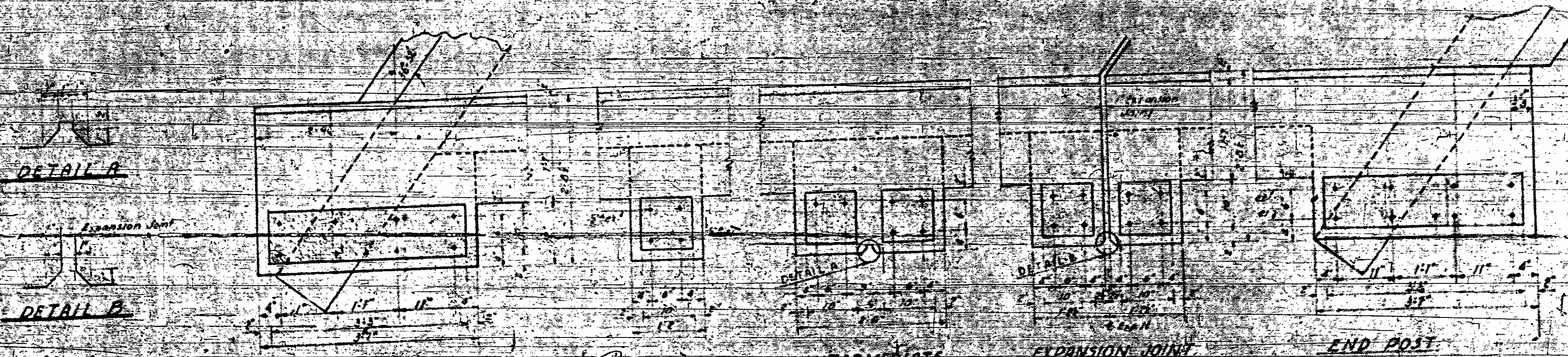
NOTE
 Posts to be plumb with top horizontal.
 The rail to be parallel to the crown grade.
 Rail end posts to be bolted to the center of bar in roadway face of end posts may be shifted back to clear Name Plate.



RAIL ELEVATION SPAN B or C



RAIL SECTION

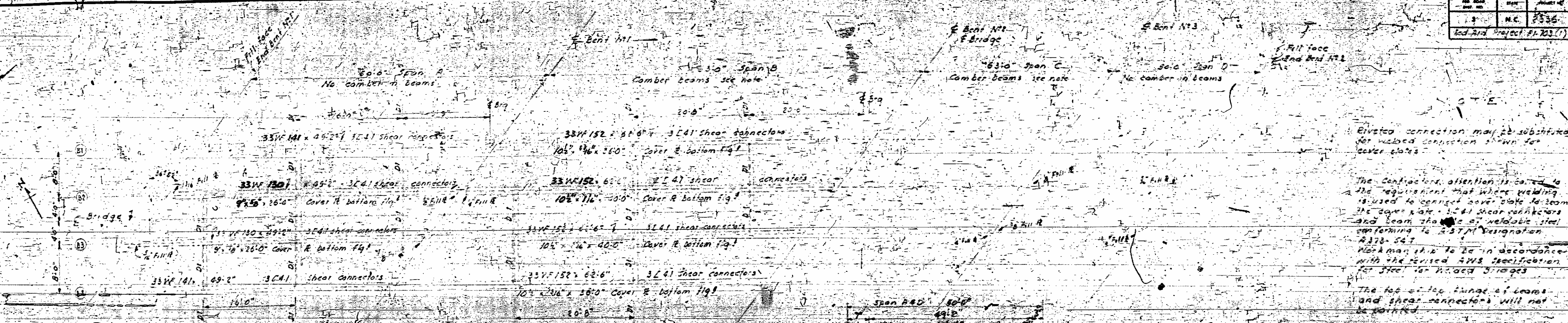


POST DETAILS

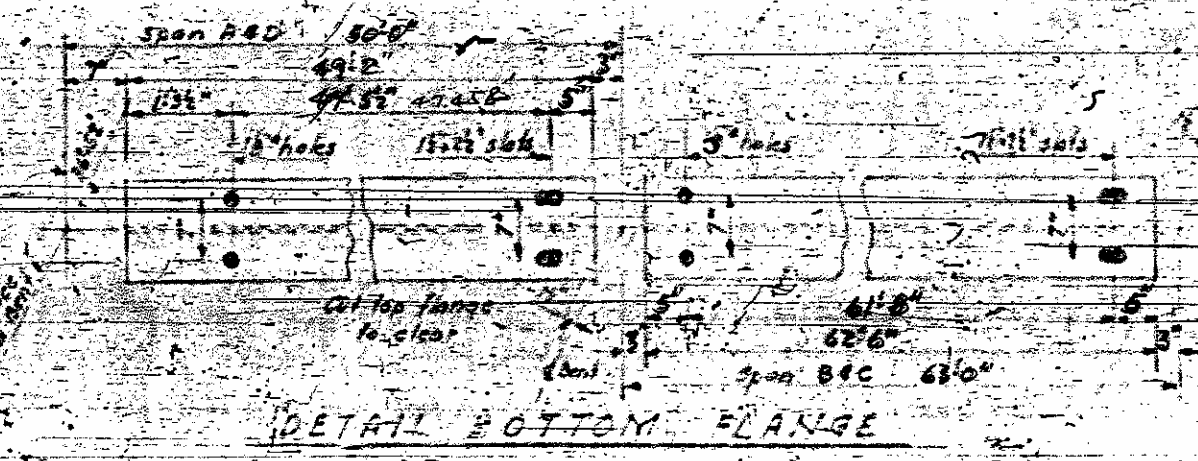
PROJECT NO. 2336
 JOHNSTON COUNTY
 STATION: 266+65.7 & Mean

STATE OF NORTH CAROLINA
 STATE HIGHWAY
 PUBLIC WORKS COMMISSION
 SUPERSTRUCTURE
 POST & RAIL
 ELEVATION & DETAILS

NOVEMBER 1954



STRUCTURAL STEEL PLAN



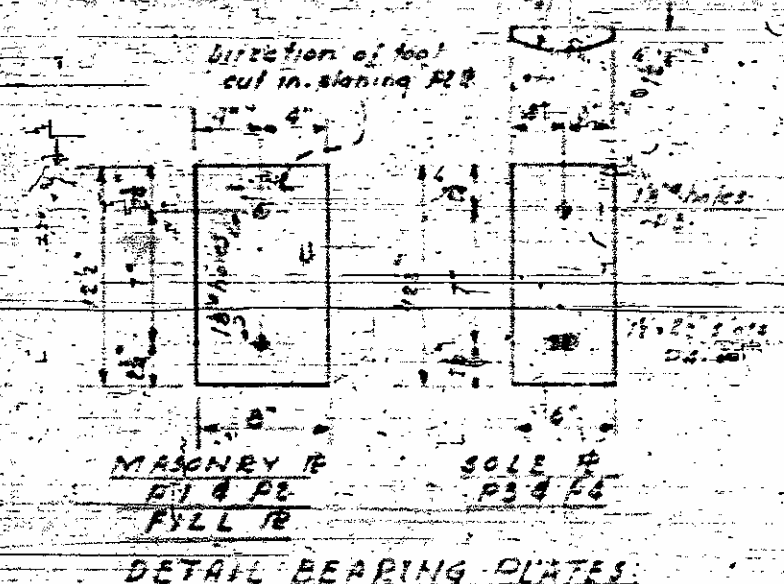
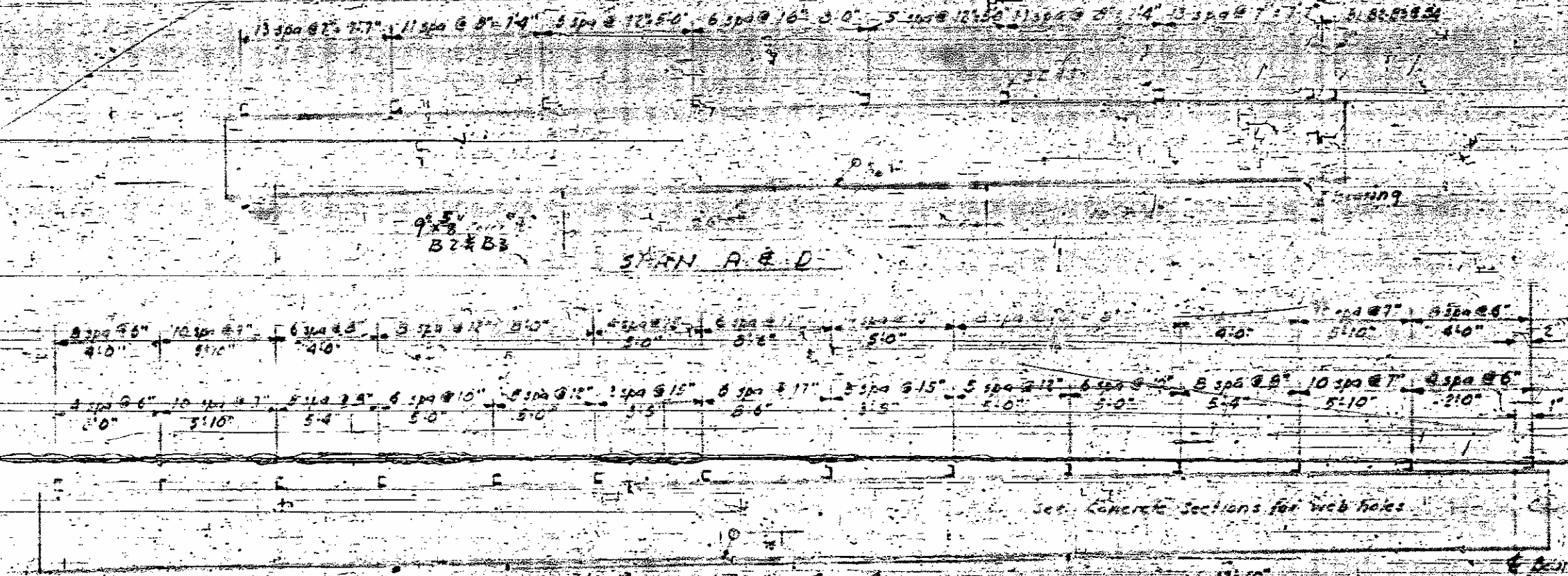
Welded connection may be substituted for riveted connection shown for cover plates.

The Contractor's attention is called to the requirement that where welding is used to connect cover plate to beam the cover plate 3L41 shear connectors and beam shall be of weldable steel conforming to ASTM designation A328-54T. Workman ship to be in accordance with the revised AWS Specification for Steel for Welded Bridges.

The top or top flange of beams and shear connectors will not be painted.

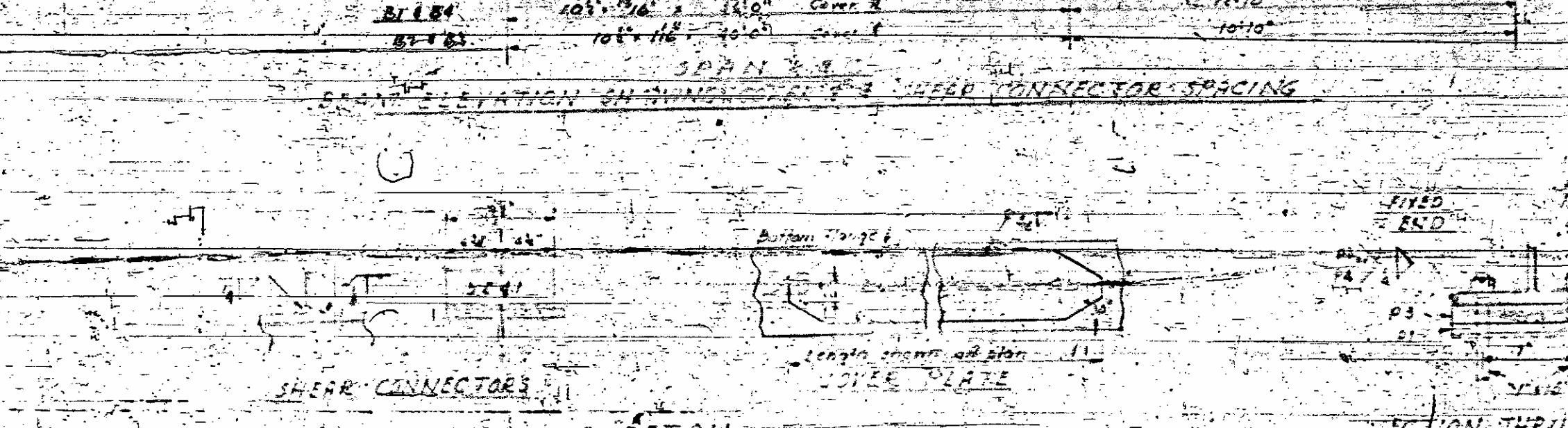
Beams to be cambered as follows:
Span A-B & C-D camber
Span B-C
Exterior beams B1&D4 Camber 1/8"
Interior beams B2&C3 Camber 1/16"
Minimum camber tolerance 1/4" - 0"

See note on sheet 5 regarding buildup for dead load deflection and vertical curve for cambered beams.



Required 10" P1 8" x 12" at slating
16" P2 8" x 12" above P1
16" P3 6" x 12" as detailed
16" P4 6" x 12" as detailed
P1, P2
2" 8" x 12" P1
2" 8" x 12" P2
2" 8" x 12" P3
2" 8" x 12" P4

Fill to match beam level with masonry. As P1, P2 to give correct thickness.



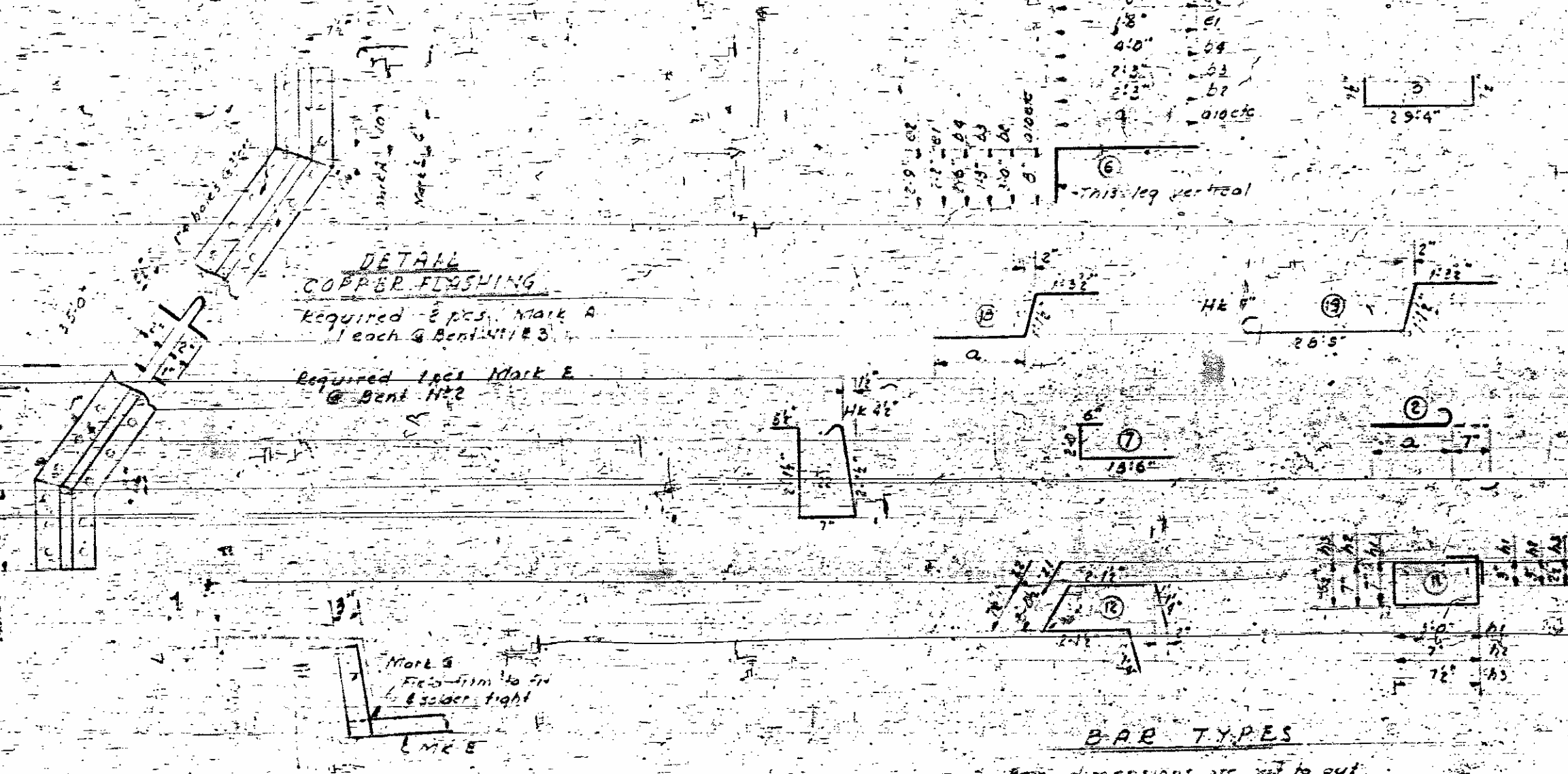
PROJECT NO.
COUNTY
STATION: 25+50.00

STATE OF NORTH CAROLINA
STATE HIGHWAY AND
PUBLIC WORKS COMMISSION

SUPERSTRUCTURE
STRUCTURAL STEEL
PLAN & DETAIL

NOVEMBER 1954

3-31
30

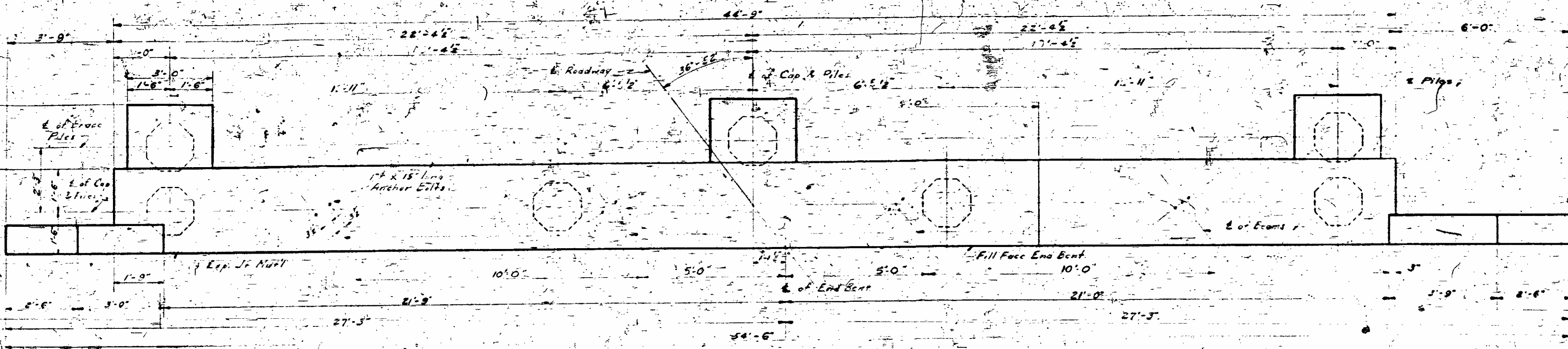


Bar No.	No.	Size	Type	Length	Weight
21	226	5/8"	5/8"	25'-6"	540.71
22	32	5/8"	6"	5'-3"	238
23	204	5/8"	6"	5'-6"	477
24	8	5/8"	6"	6'-6"	54
25	300	5/8"	3/4"	24'-9"	635.9
26	8	4"	5/8"	22'-0"	264
27	76	7/8"	5/8"	21'-6"	230
28	24	4"	7"	21'-0"	753
29	174	4"	22"	5'-6"	659
30	16	5/8"	5/8"	10'-0"	112
31	16	5/8"	5/8"	10'-0"	112
32	16	5/8"	5/8"	10'-0"	112
33	16	5/8"	5/8"	10'-0"	112
34	16	5/8"	5/8"	10'-0"	112
35	16	5/8"	5/8"	10'-0"	112
36	16	5/8"	5/8"	10'-0"	112
37	16	5/8"	5/8"	10'-0"	112
38	16	5/8"	5/8"	10'-0"	112
39	16	5/8"	5/8"	10'-0"	112
40	16	5/8"	5/8"	10'-0"	112
41	16	5/8"	5/8"	10'-0"	112
42	16	5/8"	5/8"	10'-0"	112
43	16	5/8"	5/8"	10'-0"	112
44	16	5/8"	5/8"	10'-0"	112
45	16	5/8"	5/8"	10'-0"	112
46	16	5/8"	5/8"	10'-0"	112
47	16	5/8"	5/8"	10'-0"	112
48	16	5/8"	5/8"	10'-0"	112
49	16	5/8"	5/8"	10'-0"	112
50	16	5/8"	5/8"	10'-0"	112
51	16	5/8"	5/8"	10'-0"	112
52	16	5/8"	5/8"	10'-0"	112
53	16	5/8"	5/8"	10'-0"	112
54	16	5/8"	5/8"	10'-0"	112
55	16	5/8"	5/8"	10'-0"	112
56	16	5/8"	5/8"	10'-0"	112
57	16	5/8"	5/8"	10'-0"	112
58	16	5/8"	5/8"	10'-0"	112
59	16	5/8"	5/8"	10'-0"	112
60	16	5/8"	5/8"	10'-0"	112
61	16	5/8"	5/8"	10'-0"	112
62	16	5/8"	5/8"	10'-0"	112
63	16	5/8"	5/8"	10'-0"	112
64	16	5/8"	5/8"	10'-0"	112
65	16	5/8"	5/8"	10'-0"	112
66	16	5/8"	5/8"	10'-0"	112
67	16	5/8"	5/8"	10'-0"	112
68	16	5/8"	5/8"	10'-0"	112
69	16	5/8"	5/8"	10'-0"	112
70	16	5/8"	5/8"	10'-0"	112
71	16	5/8"	5/8"	10'-0"	112
72	16	5/8"	5/8"	10'-0"	112
73	16	5/8"	5/8"	10'-0"	112
74	16	5/8"	5/8"	10'-0"	112
75	16	5/8"	5/8"	10'-0"	112
76	16	5/8"	5/8"	10'-0"	112
77	16	5/8"	5/8"	10'-0"	112
78	16	5/8"	5/8"	10'-0"	112
79	16	5/8"	5/8"	10'-0"	112
80	16	5/8"	5/8"	10'-0"	112
81	16	5/8"	5/8"	10'-0"	112
82	16	5/8"	5/8"	10'-0"	112
83	16	5/8"	5/8"	10'-0"	112
84	16	5/8"	5/8"	10'-0"	112
85	16	5/8"	5/8"	10'-0"	112
86	16	5/8"	5/8"	10'-0"	112
87	16	5/8"	5/8"	10'-0"	112
88	16	5/8"	5/8"	10'-0"	112
89	16	5/8"	5/8"	10'-0"	112
90	16	5/8"	5/8"	10'-0"	112
91	16	5/8"	5/8"	10'-0"	112
92	16	5/8"	5/8"	10'-0"	112
93	16	5/8"	5/8"	10'-0"	112
94	16	5/8"	5/8"	10'-0"	112
95	16	5/8"	5/8"	10'-0"	112
96	16	5/8"	5/8"	10'-0"	112
97	16	5/8"	5/8"	10'-0"	112
98	16	5/8"	5/8"	10'-0"	112
99	16	5/8"	5/8"	10'-0"	112
100	16	5/8"	5/8"	10'-0"	112

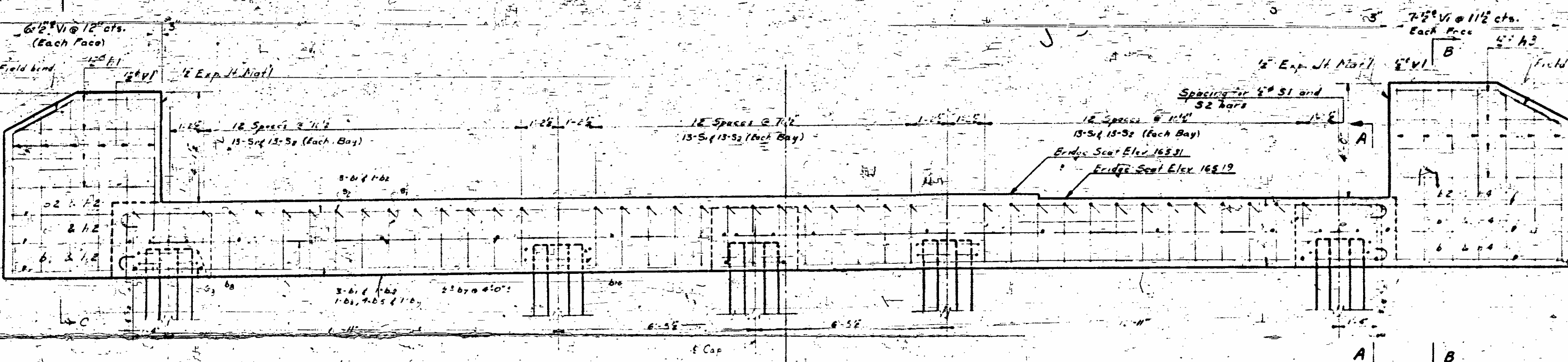
PROJECT NO. _____
 HUNTON COUNTY
 STATION: 1+06.527 ±

Cross & Concrete	22.5	5.10
Reinforcing Steel	4	1.12
Structural Steel (work)	12	2.75
Method of Water-tighting	23	5.7

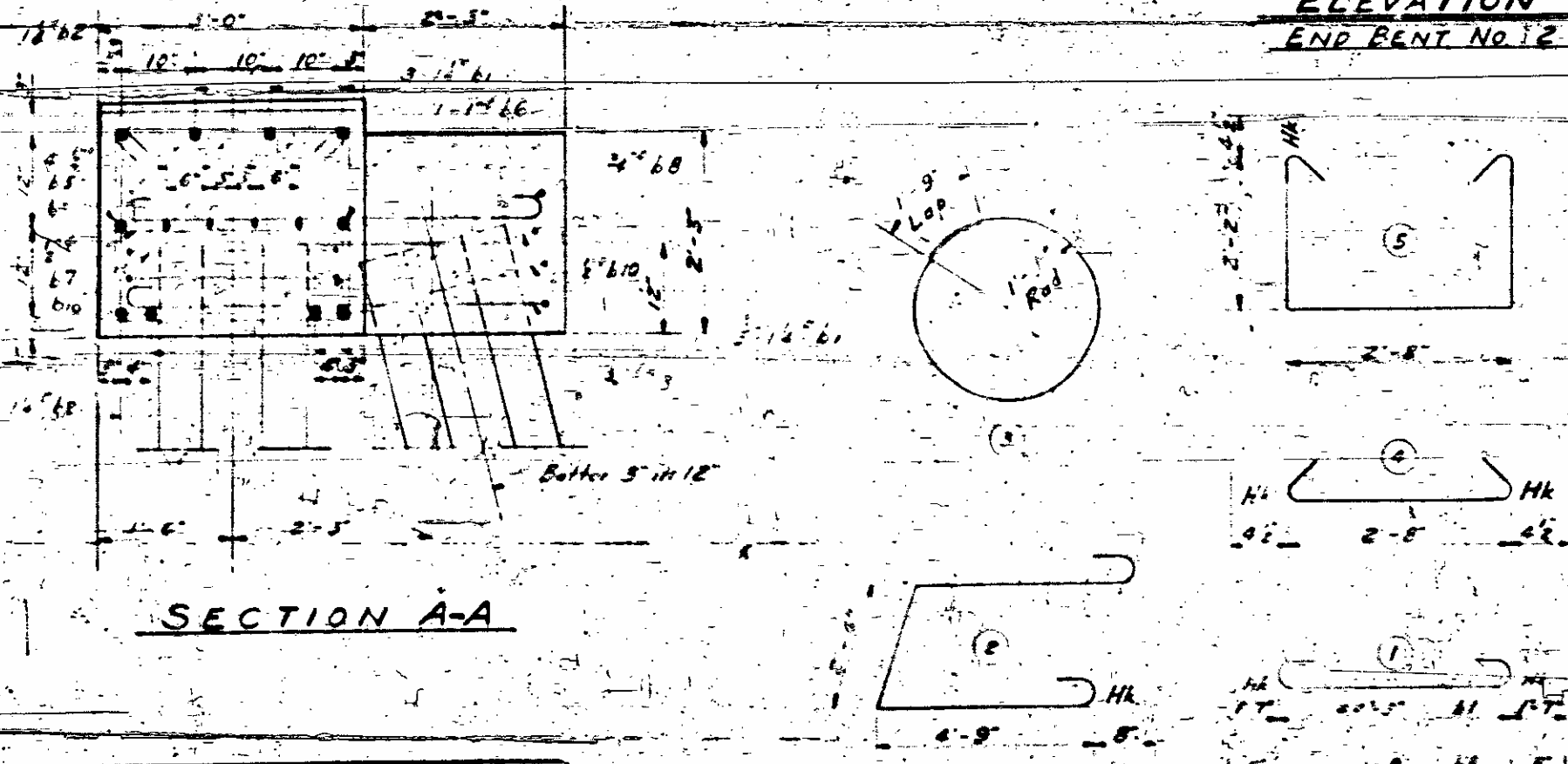
STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 SUPERSTRUCTURE
 BILL OF MATERIAL
 NOVEMBER 1956



PLAN OF END BENT NO. 1 OR
END BENT NO. 2



ELEVATION OF END BENT NO. 1 OR
END BENT NO. 2



SECTION A-A

BILL OF MATERIAL FOR ONE END BENT - TWO REQUIRED

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
61	6	1"	47'-5"	10	44	3	1 1/2"	Str	7'-1"
62	1	1 1/2"	Str	54'-0"	51	41	1 1/2"	5	7'-0"
63	1	1 1/2"	Str	54'-0"	52	41	1 1/2"	4	3'-5"
65	8	1 1/2"	Str	3'-0"	53	3	1 1/2"	2	13'-4"
66	1	1 1/2"	Str	48'-5"	VI	26	1 1/2"	Str	6'-2"
67	12	1 1/2"	Str	2'-8"					
68	9	1 1/2"	1	6'-1"					
69	14	1 1/2"	3	5'					
61	8	1 1/2"	Str	5'-2"					
62	3	1 1/2"	Str	4'-10"					
63	8	1 1/2"	Str	5'-11"					

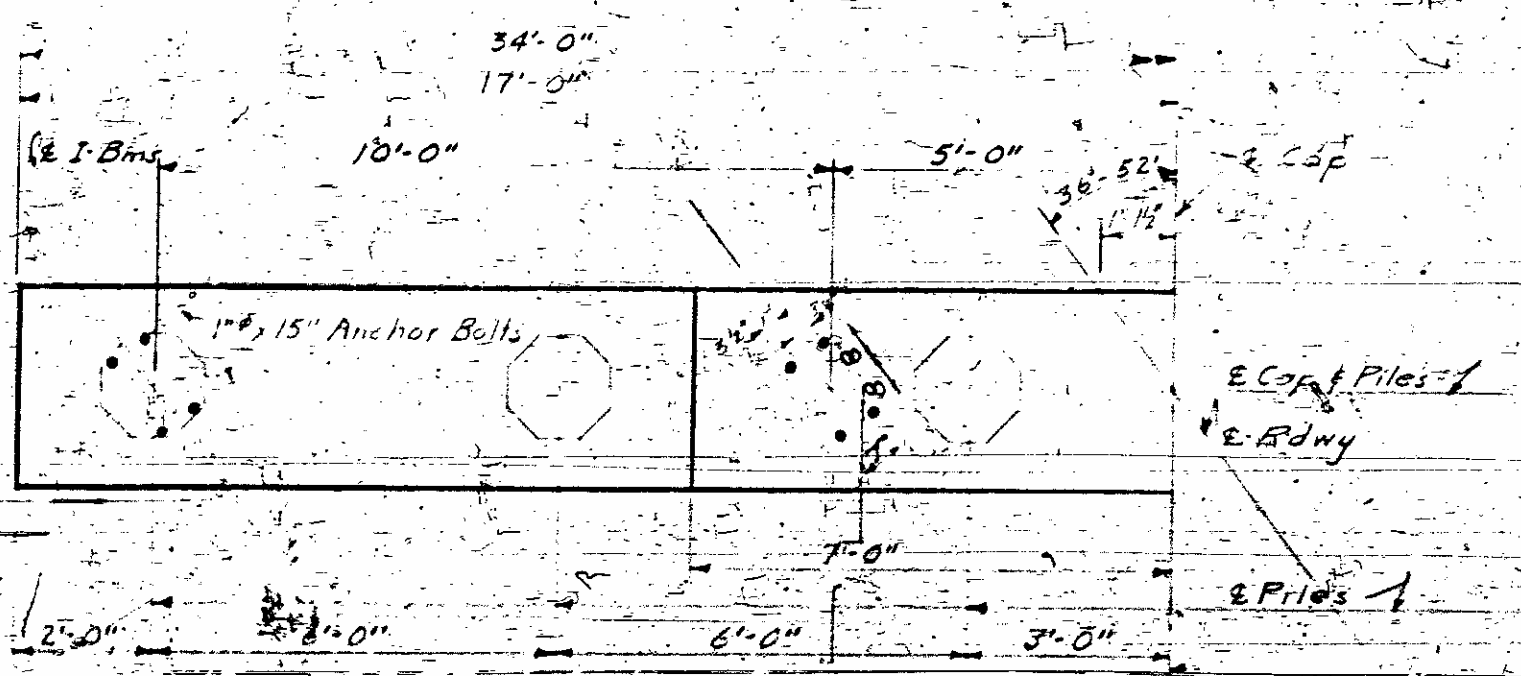
16mlars 22 Steel - Lbs
 Class A concrete - 10
 20 lbs per cu yd.

BAR TYPES

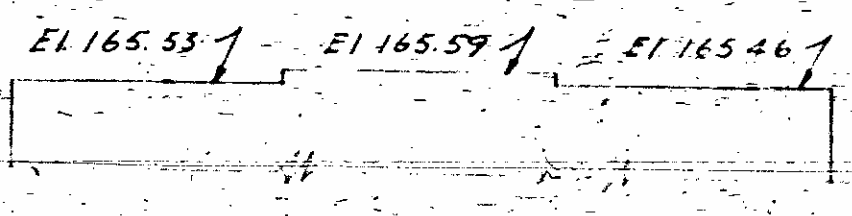
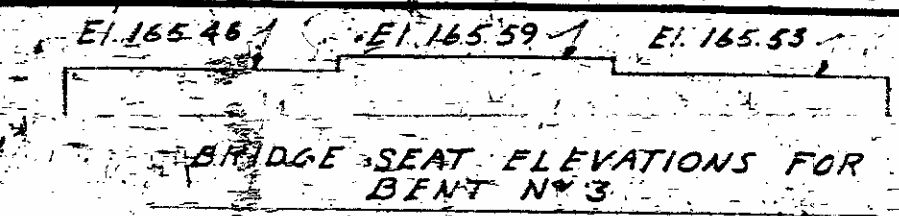
PROJECT NO. 2336
 JOHNSTON COUNTY
 STATION: 266+65.7
 6 Median

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION

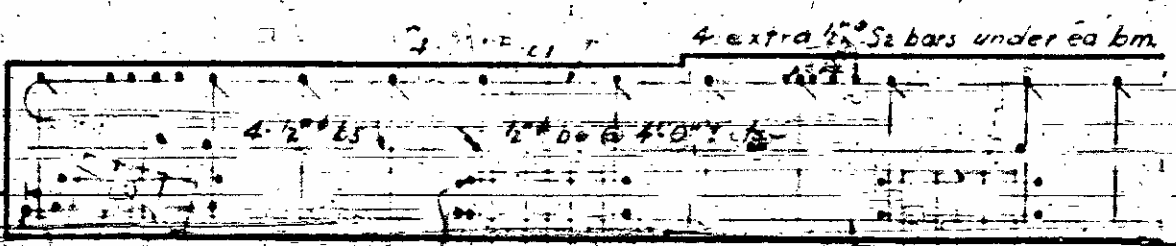
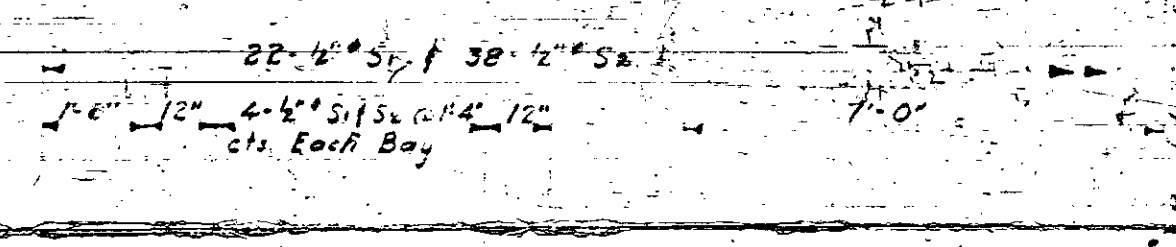
END BENT



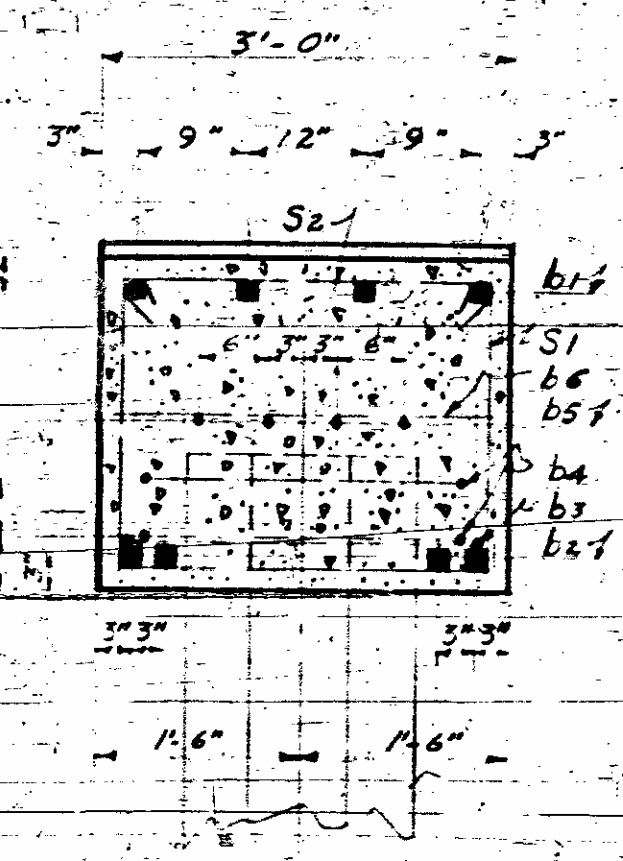
HALF PLAN OF CAP FOR BENTS #1, #2 & #3



BRIDGE SEAT ELEVATIONS FOR BENT #1



HALF ELEVATION BENTS #1, #2 & #3



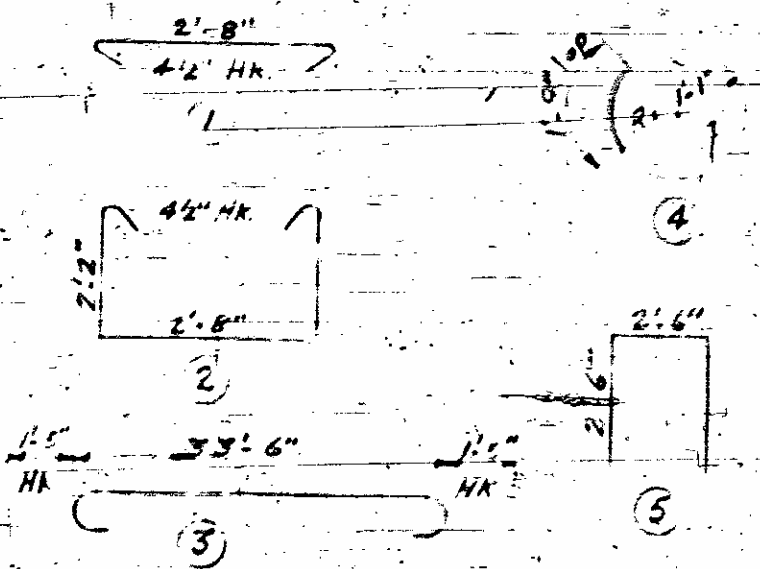
SECTION THRU CAP

3 Required

BILL OF MATERIAL (ONE BENT)					
Qty	Size	Type	Length	Weight	
b1	4	1/2"	36'-2"	625	
b2	4	1/2"	33'-6"	571	
b3	2	1"	7'-6"	51	
b4	12	1/2"	8'-7"	69	
b5	8	1/2"	17'-5"	93	
b6	8	1/2"	2'-8"	14	
S1	22	1/2"	7'-9"	114	
S2	38	1/2"	3'-5"	8	

Reinforcing Steel - Abs. - 1630
 Bent #1 Class A Concrete Cu. Yd. 92
 Bent #2 Class A Concrete Cu. Yd. 91
 20' Precast Concrete Piles - NY 6

* Concrete displaced by pile heads has been deducted.
 All piles to be driven to a minimum bearing capacity of 40 Tons Each.



Note: All bar dimensions are out to center
 BAR TYPES

PROJECT NO. 2336

JOHNSTON COUNTY

STATION: 265 + 65.7
 & Meigs

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 SUBSTRUCTURE
 BENT #1, #2 & #3