

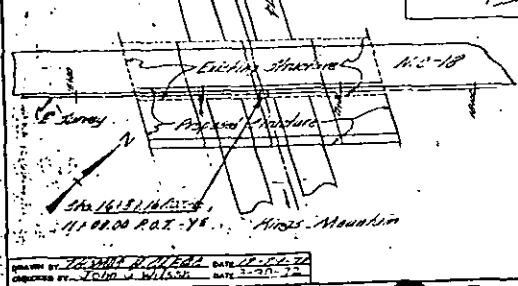
1. Excavate to base of Abut. #1
  2. For slope design table and general notes see sheet 48
  3. Supplies' quantities listed in End Road 2 and Abut. #1, #2, #3, and #4
  4. If items required on sheet 15 are not to be used, quantities shall be revised to conform with quantities on sheet 15 as shown in the drawings. The Resident Engineer shall submit the checked quantities to the Bridge Design Department.
  5. Allow for the steel ball to be used having capacity of 27 tons
  6. The ballast will be provided in determining depths of piles required in special provisions.
  7. The special provisions for the design of wing bridge deck and wing and apply the correct cut section.
  8. Class 2 concrete shall be used in the superstructure and Class 4 concrete shall be used in all other portions of the structure. See Special Provisions and Special Provisions.
  9. No ribbed surface steel will be required on any part of structure except as specified in the Special Provisions.
  10. The removal of portion of existing structure see special provisions.
  11. Painting and pointing of existing beams and the placing of new steel in existing beams are to be as specified in structure steel by item 10 special provisions.
  12. Traffic is to be maintained on NC 18. See Special Provisions.
  13. For the Staging of Construction, See Special Provisions.
  14. Traffic on US 74 is to be maintained. See Special Provisions.
  15. Excavation shall be done with care for existing structures existing steel work.
  16. Structure of this bridge not to be extended.
- See data on sheet 15 for quantities of materials to be used in the structure.

I HEREBY CERTIFY THIS STRUCTURE WAS BUILT ACCORDING TO PLANS EXCEPT AS NOTED HEREIN.

REGISTERED ENGINEER: R.R. Mickle

SEE PAGE 34 OF STRUCTURE PAY RECORD BOOK #1.

PROJECT NO. 97122902  
CLEVELAND COUNTY  
#32 STATION 16+39.16-1- = 14+00.00-1-2



MR. C. B. PATTEN, AREA STRUCTURE ENGINEER, DISCUSSED PAYMENT FOR UNCLASSIFIED EXCAVATION FOR STRUCTURE WITH THE RALEIGH OFFICE. IT WAS DECIDED THAT NO PAYMENT WOULD BE MADE FOR THIS ITEM EXCEPT FOR SLOPING THE EXISTING CUT SLOPE TO MAKE IT TIE TO THE NEW SLOPE PROTECTION.

FOR A REASONED STRUCTURAL DESIGN SEE SHEET 48 BY THE

Rev 1: To change span length, span C and overall length bridge. By R.E.K. 12-1-70 11-12-70

REVISION 3 - SEE ATTACHED SHEET

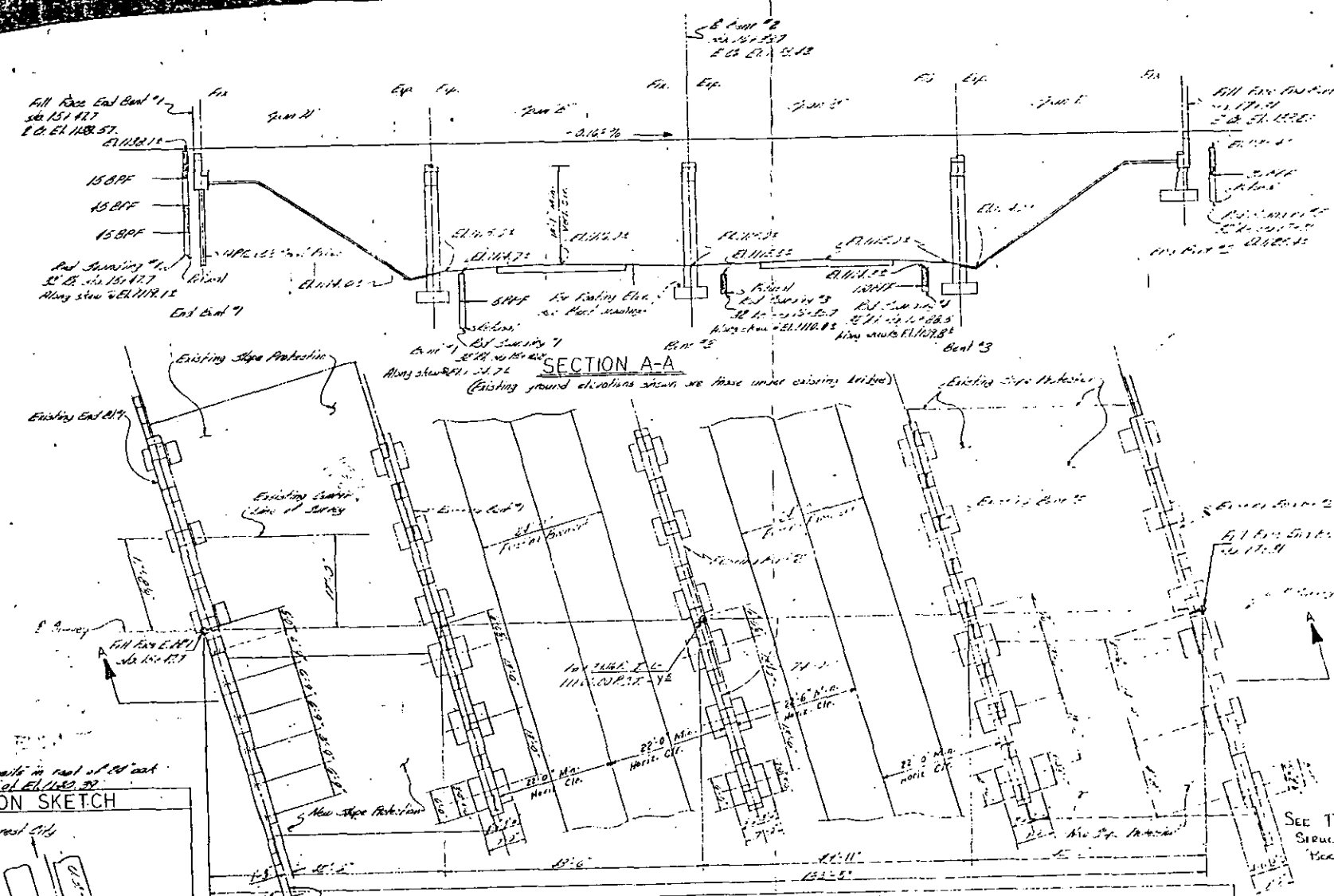
Reel # 1026  
Post # 2

STATE OF NORTH CAROLINA  
**STATE HIGHWAY COMMISSION**  
RALEIGH

GENERAL DRAWING FOR WIDENING OF NC-16 OVER US-74

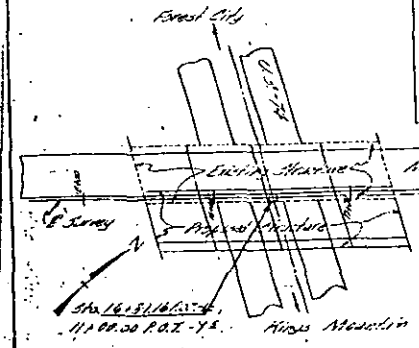
DEC. 1971

NO.	BY	DATE	NO.	BY	DATE
1	CRS	7-22-70	1		
2	FEI	12-12-70	4		



- NOTES**
1. Proposed bridge spans 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
  2. The bridge spans shall be constructed in accordance with the specifications and drawings.
  3. The bridge spans shall be constructed in accordance with the specifications and drawings.
  4. The bridge spans shall be constructed in accordance with the specifications and drawings.
  5. The bridge spans shall be constructed in accordance with the specifications and drawings.
  6. The bridge spans shall be constructed in accordance with the specifications and drawings.
  7. The bridge spans shall be constructed in accordance with the specifications and drawings.
  8. The bridge spans shall be constructed in accordance with the specifications and drawings.
  9. The bridge spans shall be constructed in accordance with the specifications and drawings.
  10. The bridge spans shall be constructed in accordance with the specifications and drawings.
  11. The bridge spans shall be constructed in accordance with the specifications and drawings.
  12. The bridge spans shall be constructed in accordance with the specifications and drawings.
  13. The bridge spans shall be constructed in accordance with the specifications and drawings.
  14. The bridge spans shall be constructed in accordance with the specifications and drawings.
  15. The bridge spans shall be constructed in accordance with the specifications and drawings.

LOCATION SKETCH



Mr. C. B. Patton, AREA STRUCTURE ENGINEER, DISCUSSED PAYMENT FOR UNCLASSIFIED EXCAVATION FOR STRUCTURE WITH THE RALEIGH OFFICE. IT WAS DECIDED THAT NO PAYMENT WOULD BE MADE FOR THIS ITEM EXCEPT FOR SLOPING THE EXISTING CUT SLOPE TO MAKE IT TIE TO THE NEW SLOPE PROTECTION.

TOTAL BILL OF MATERIAL									
Excavation	117,100	117,100							
Concrete	112,000	112,000							
Steel	112,000	112,000							
Timber	112,000	112,000							
Other	112,000	112,000							
<b>TOTAL</b>	<b>455,100</b>	<b>455,100</b>							

SEE PAGE 34 OF STRUCTURE DAY RECORD DRAWING 11.

PROJECT No. 97122902  
CLEVELAND COUNTY  
STATION 16+39.16-1-11+00.00-Y2

STATE OF NORTH CAROLINA  
**STATE HIGHWAY COMMISSION**  
RALEIGH  
GENERAL DRAWING  
FOR WIDENING OF  
NC-16 OVER US-74

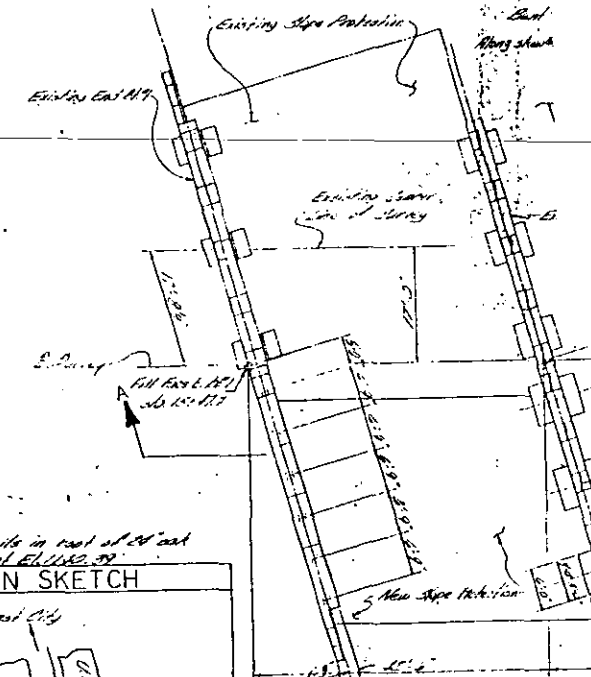
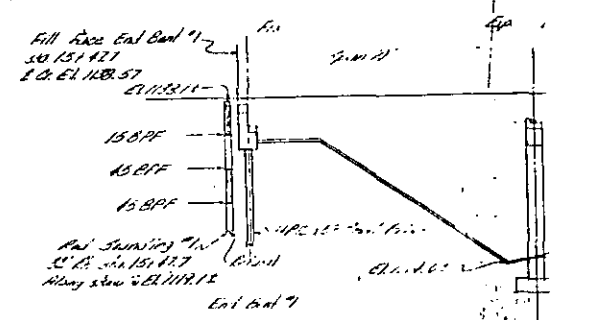
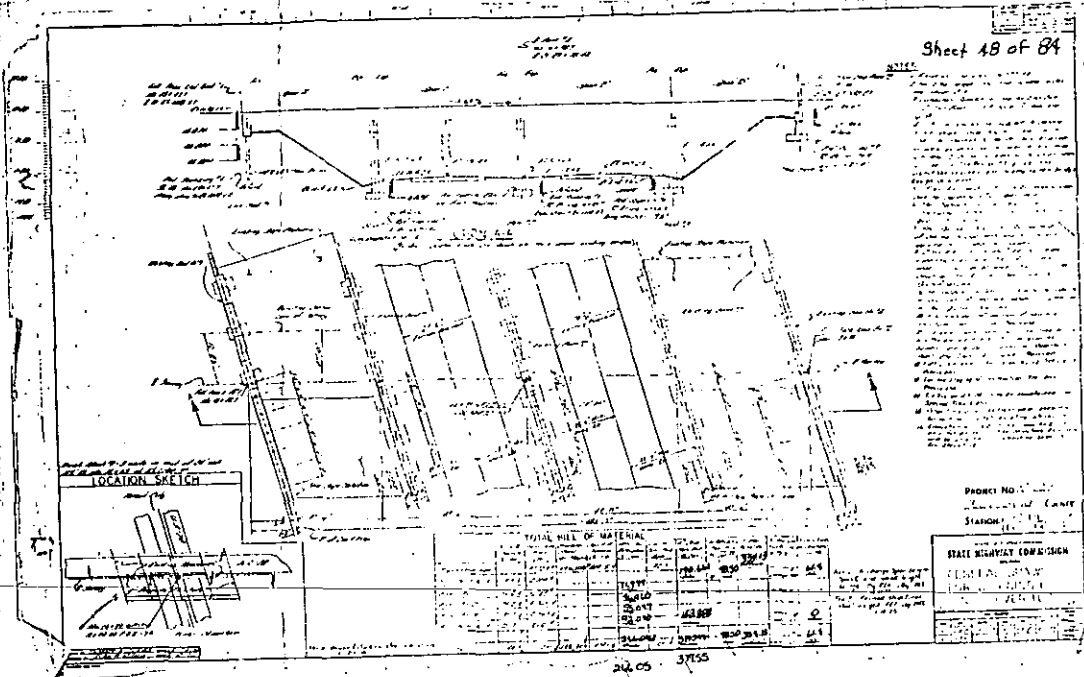
DEC. 1971

REVISIONS		SHEET	
NO.	DATE	BY	DATE
1	7-20-71	CRS	
2	10-10-71	CRS	

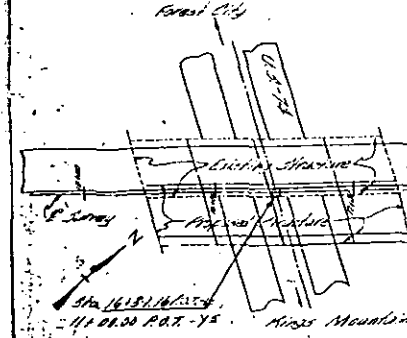
Rev 1: To change span length, span C and overall length. Bridge by H.E.K. 12/1/71.

REVISION 3 - SEE ATTACHED SHEET

Notes:  
 1. See page 34 of Structure Pay Record Book #1.  
 2. See page 34 of Structure Pay Record Book #1.  
 3. See page 34 of Structure Pay Record Book #1.  
 4. See page 34 of Structure Pay Record Book #1.  
 5. See page 34 of Structure Pay Record Book #1.  
 6. See page 34 of Structure Pay Record Book #1.  
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 97. See page 34 of Structure Pay Record Book #1.  
 98. See page 34 of Structure Pay Record Book #1.  
 99. See page 34 of Structure Pay Record Book #1.  
 100. See page 34 of Structure Pay Record Book #1.



LOCATION SKETCH



MR. C. B. TAYLOR, AREA STRUCTURE ENGINEER, DISCUSSED PAYMENT FOR UNCLASSIFIED EXCAVATION FOR STRUCTURE WITH THE RALEIGH OFFICE. IT WAS DECIDED THAT NO PAYMENT WOULD BE MADE FOR THIS ITEM EXCEPT FOR SLOPING THE EXISTING CUT SLOPE TO MAKE IT TIE TO THE NEW SLOPE PROTECTION.

TOTAL BILL OF MATERIAL	
Excavation	116,100
Concrete	116,100
Steel	116,100
Timber	116,100
Gravel	116,100
Earthwork	116,100
Other	116,100
<b>Total</b>	<b>116,100</b>

REVISION 3 - SEE ATTACHED SHEET

STATE OF NORTH CAROLINA  
**STATE HIGHWAY COMMISSION**  
 RALEIGH

GENERAL DRAWING  
 FOR WIDENING OF  
 NC-16 OVER US-74

DEC. 1971

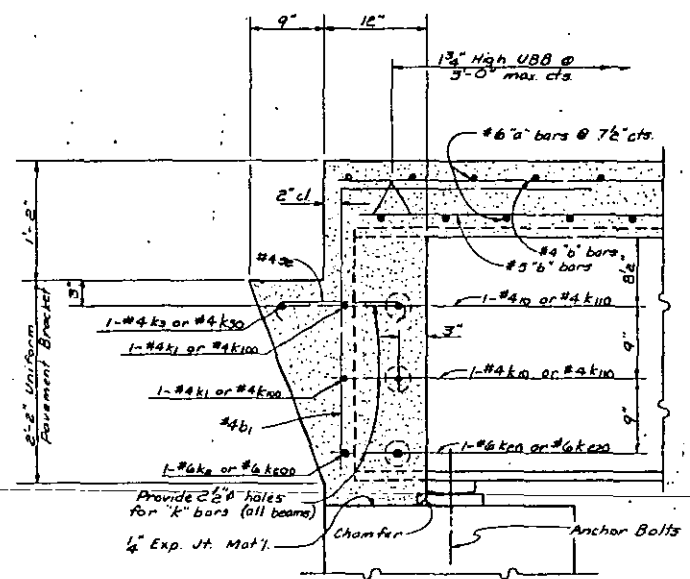
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1	CAS	7-22-71	2		
2	CEB	11-15-71	3		

### BILL OF MATERIALS

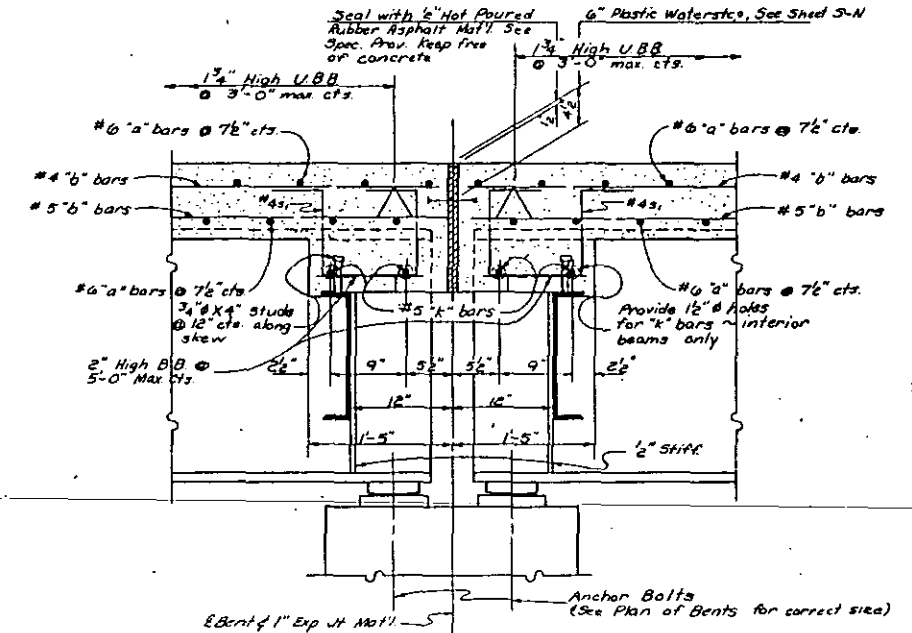
#### TWO APPROACH SLABS

ITEM NO.	DESCRIPTION	BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
011	4 #5	512	19.3	STP	26.5	42
012	4 #5	269	36	STP	27.1	48
013	4 #5	216	29	STP	28.7	52
014	4 #5	163	22	STP	29.1	52
015	4 #5	107	15	STP	29.7	52
016	4 #5	57	7	STP	30.7	52
017	4 #5	320	56	STP	31.7	52
018	4 #5	309	41	STP	31.9	52
019	4 #5	256	34	STP	33.2	52
020	4 #5	202	27	STP	33.6	52
021	4 #5	150	20	STP	34.0	52
022	4 #5	97	13	STP	35.0	52
023	4 #5	44	6	STP	35.7	52
024	4 #5	251	50	STP	20.0	210
025	4 #5	218	37	STP	20.0	210
026	4 #5	175	30	STP	21.0	210
027	4 #5	132	23	STP	22.0	210
028	4 #5	89	16	STP	23.1	210
029	4 #5	47	9	STP	23.7	210
030	4 #5	220	38	STP	25.7	210
031	4 #5	177	30	STP	25.7	210
032	4 #5	134	23	STP	27.0	210
033	4 #5	91	16	STP	27.8	210
034	4 #5	48	9	STP	28.7	210
035	4 #5	221	39	STP	29.3	210
036	4 #5	178	31	STP	29.3	210
037	4 #5	135	24	STP	29.7	210
038	4 #5	92	17	STP	29.7	210
039	4 #5	49	10	STP	29.7	210
040	4 #5	222	40	STP	30.3	210
041	4 #5	179	32	STP	30.3	210
042	4 #5	136	25	STP	31.1	210
043	4 #5	93	18	STP	31.1	210
044	4 #5	50	11	STP	31.1	210
045	4 #5	223	41	STP	31.7	210
046	4 #5	180	33	STP	31.7	210
047	4 #5	137	26	STP	31.7	210
048	4 #5	94	19	STP	31.7	210
049	4 #5	51	12	STP	31.7	210
050	4 #5	224	42	STP	32.3	210
051	4 #5	181	34	STP	32.3	210
052	4 #5	138	27	STP	32.3	210
053	4 #5	95	20	STP	32.3	210
054	4 #5	52	13	STP	32.3	210
055	4 #5	225	43	STP	32.9	210
056	4 #5	182	35	STP	32.9	210
057	4 #5	139	28	STP	32.9	210
058	4 #5	96	21	STP	32.9	210
059	4 #5	53	14	STP	32.9	210
060	4 #5	226	44	STP	33.5	210
061	4 #5	183	36	STP	33.5	210
062	4 #5	140	29	STP	33.5	210
063	4 #5	97	22	STP	33.5	210
064	4 #5	54	15	STP	33.5	210
065	4 #5	227	45	STP	34.1	210
066	4 #5	184	37	STP	34.1	210
067	4 #5	141	30	STP	34.1	210
068	4 #5	98	23	STP	34.1	210
069	4 #5	55	16	STP	34.1	210
070	4 #5	228	46	STP	34.7	210
071	4 #5	185	38	STP	34.7	210
072	4 #5	142	31	STP	34.7	210
073	4 #5	99	24	STP	34.7	210
074	4 #5	56	17	STP	34.7	210
075	4 #5	229	47	STP	35.3	210
076	4 #5	186	39	STP	35.3	210
077	4 #5	143	32	STP	35.3	210
078	4 #5	100	25	STP	35.3	210
079	4 #5	57	18	STP	35.3	210
080	4 #5	230	48	STP	35.9	210
081	4 #5	187	40	STP	35.9	210
082	4 #5	144	33	STP	35.9	210
083	4 #5	101	26	STP	35.9	210
084	4 #5	58	19	STP	35.9	210
085	4 #5	231	49	STP	36.5	210
086	4 #5	188	41	STP	36.5	210
087	4 #5	145	34	STP	36.5	210
088	4 #5	102	27	STP	36.5	210
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090	4 #5	232	50	STP	37.1	210
091	4 #5	189	42	STP	37.1	210
092	4 #5	146	35	STP	37.1	210
093	4 #5	103	28	STP	37.1	210
094	4 #5	60	21	STP	37.1	210
095	4 #5	233	51	STP	37.7	210
096	4 #5	190	43	STP	37.7	210
097	4 #5	147	36	STP	37.7	210
098	4 #5	104	29	STP	37.7	210
099	4 #5	61	22	STP	37.7	210
100	4 #5	234	52	STP	38.3	210
101	4 #5	191	44	STP	38.3	210
102	4 #5	148	37	STP	38.3	210
103	4 #5	105	30	STP	38.3	210
104	4 #5	62	23	STP	38.3	210
105	4 #5	235	53	STP	38.9	210
106	4 #5	192	45	STP	38.9	210
107	4 #5	149	38	STP	38.9	210
108	4 #5	106	31	STP	38.9	210
109	4 #5	63	24	STP	38.9	210
110	4 #5	236	54	STP	39.5	210
111	4 #5	193	46	STP	39.5	210
112	4 #5	150	39	STP	39.5	210
113	4 #5	107	32	STP	39.5	210
114	4 #5	64	25	STP	39.5	210
115	4 #5	237	55	STP	40.1	210
116	4 #5	194	47	STP	40.1	210
117	4 #5	151	40	STP	40.1	210
118	4 #5	108	33	STP	40.1	210
119	4 #5	65	26	STP	40.1	210
120	4 #5	238	56	STP	40.7	210
121	4 #5	195	48	STP	40.7	210
122	4 #5	152	41	STP	40.7	210
123	4 #5	109	34	STP	40.7	210
124	4 #5	66	27	STP	40.7	210
125	4 #5	239	57	STP	41.3	210
126	4 #5	196	49	STP	41.3	210
127	4 #5	153	42	STP	41.3	210
128	4 #5	110	35	STP	41.3	210
129	4 #5	67	28	STP	41.3	210
130	4 #5	240	58	STP	41.9	210
131	4 #5	197	50	STP	41.9	210
132	4 #5	154	43	STP	41.9	210
133	4 #5	111	36	STP	41.9	210
134	4 #5	68	29	STP	41.9	210
135	4 #5	241	59	STP	42.5	210
136	4 #5	198	51	STP	42.5	210
137	4 #5	155	44	STP	42.5	210
138	4 #5	112	37	STP	42.5	210
139	4 #5	69	30	STP	42.5	210
140	4 #5	242	60	STP	43.1	210
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145	4 #5	243	61	STP	43.7	210
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148	4 #5	114	39	STP	43.7	210
149	4 #5	71	32	STP	43.7	210
150	4 #5	244	62	STP	44.3	210
151	4 #5	201	54	STP	44.3	210
152	4 #5	158	47	STP	44.3	210
153	4 #5	115	40	STP	44.3	210
154	4 #5	72	33	STP	44.3	210
155	4 #5	245	63	STP	44.9	210
156	4 #5	202	55	STP	44.9	210
157	4 #5	159	48	STP	44.9	210
158	4 #5	116	41	STP	44.9	210
159	4 #5	73	34	STP	44.9	210
160	4 #5	246	64	STP	45.5	210
161	4 #5	203	56	STP	45.5	210
162	4 #5	160	49	STP	45.5	210
163	4 #5	117	42	STP	45.5	210
164	4 #5	74	35	STP	45.5	210
165	4 #5	247	65	STP	46.1	210
166	4 #5	204	57	STP	46.1	210
167	4 #5	161	50	STP	46.1	210
168	4 #5	118	43	STP	46.1	210
169	4 #5	75	36	STP	46.1	210
170	4 #5	248	66	STP	46.7	210
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173	4 #5	119	44	STP	46.7	210
174	4 #5	76	37	STP	46.7	210
175	4 #5	249	67	STP	47.3	210
176	4 #5	206	59	STP	47.3	210
177	4 #5	163	52	STP	47.3	210
178	4 #5	120	45	STP	47.3	210
179	4 #5	77	38	STP	47.3	210
180	4 #5	250	68	STP	47.9	210
181	4 #5	207	60	STP	47.9	210
182	4 #5	164	53	STP	47.9	210
183	4 #5	121	46	STP	47.9	210
184	4 #5	78	39	STP	47.9	210
185	4 #5	251	69	STP	48.5	210
186	4 #5	208	61	STP	48.5	210
187	4 #5	165	54	STP	48.5	210
188	4 #5	122	47	STP	48.5	210
189	4 #5	79	40	STP	48.5	210
190	4 #5	252	70	STP	49.1	210
191	4 #5	209	62	STP	49.1	210
192	4 #5	166	55	STP	49.1	210
193	4 #5	123	48	STP	49.1	210
194	4 #5	80	41	STP	49.1	210
195	4 #5	253	71	STP	49.7	210
196	4 #5	210	63	STP	49.7	210
197	4 #5	167	56	STP	49.7	210
198	4 #5	124	49	STP	49.7	210
199	4 #5	81	42	STP	49.7	210
200	4 #5	254	72	STP	50.3	210
201	4 #5	211	64	STP	50.3	210
202	4 #5	168	57	STP	50.3	210
203	4 #5	125	50	STP	50.3	210
204	4 #5	82	43	STP	50.3	210
205	4 #5	255	73	STP	50.9	210
206	4 #5	212	65	STP	50.9	210
207	4 #5	169	58	STP	50.9	210
208	4 #5	126	51	STP	50.9	210
209	4 #5	83	44	STP	50.9	210
210	4 #5	256	74	STP	51.5	210
211	4 #5	213	66	STP	51.5	210
212	4 #5	170	59	STP	51.5	210
213	4 #5	127	52	STP	51.5	210
214	4 #5	84	45	STP	51.5	210
215	4 #5					

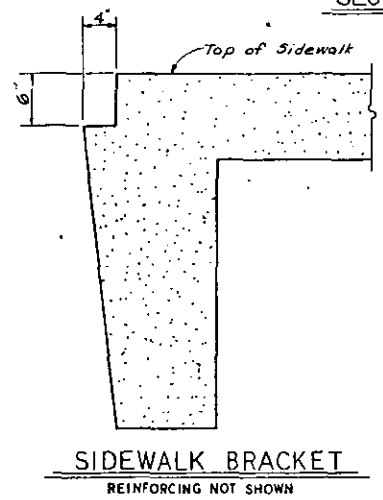




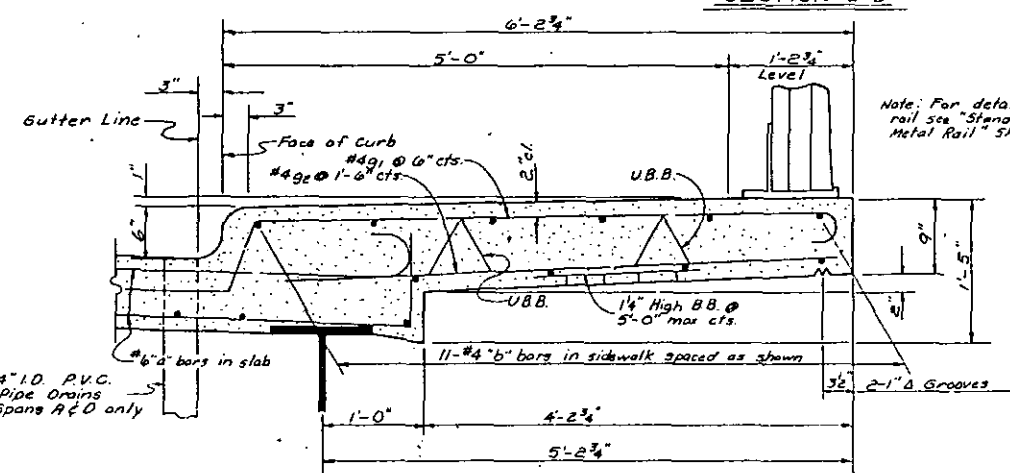
SECTION A-A



SECTION B-B



SIDEWALK BRACKET  
REINFORCING NOT SHOWN



SIDEWALK SECTION

Note: For details of metal rail see "Standard 3 Bar Metal Rail" Sheet.

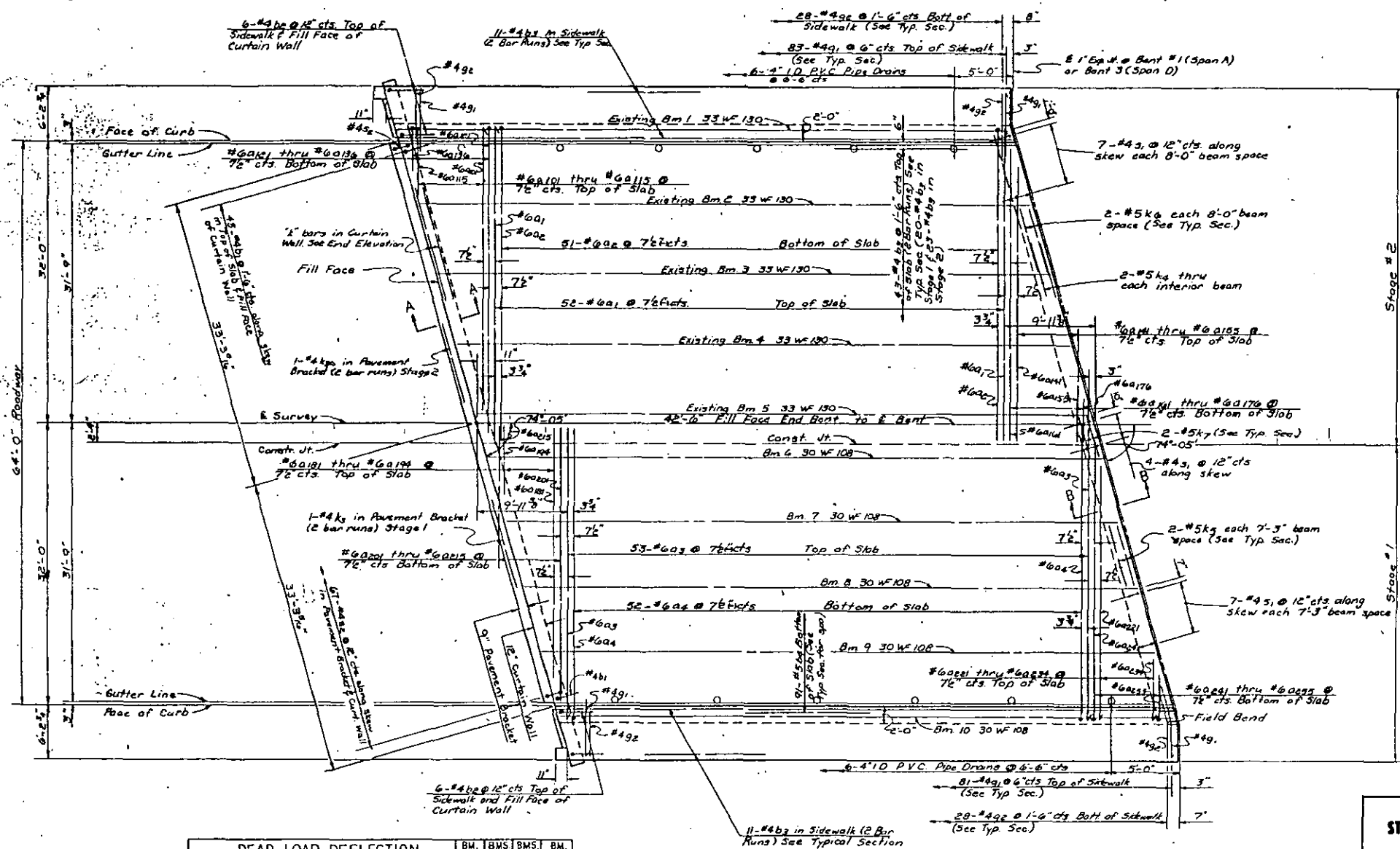
PROJECT No. 9.7122902  
CLEVELAND COUNTY  
STATION: 16+39.16-L-

STATE OF NORTH CAROLINA  
STATE HIGHWAY COMMISSION  
RALEIGH  
SUPERSTRUCTURE  
TYPICAL SECTIONS

FEB		REVISIONS				177
NO.	BY	DATE	NO.	BY	DATE	BY
1			1			
2			2			

SEE PAGE 32 OF STRUCTURE PAY RECORD BOOK #1

DESIGNED BY: J. J. Myers DATE: 2-11-72  
CHECKED BY: John A. Wilson DATE: 3-27-72



DEAD LOAD DEFLECTION	BM. 1	BMS 2-5	BMS 6-9	BM. 10
DEF. DUE TO WEIGHT OF STEEL	1/16"	1/16"	1/16"	1/16"
DEF. DUE TO SUPERIMPOSED DEAD LOAD	3/8"	5/16"	3/8"	9/16"
TOTAL DEAD LOAD DEFLECTION	7/16"	3/8"	7/16"	5/8"

NO SHOP CAMBER REQUIRED. TURN NATURAL MILL CAMBER UP

PLAN - SPAN "A"  
SPAN "D" SIMILAR

PROJECT No. 97122902  
CLEVELAND COUNTY  
STATION: 16+39.16-1-

STATE OF NORTH CAROLINA  
STATE HIGHWAY COMMISSION  
RALEIGH

SUPERSTRUCTURE PLAN  
SPAN "A" OR SPAN "D"

FEB 1972

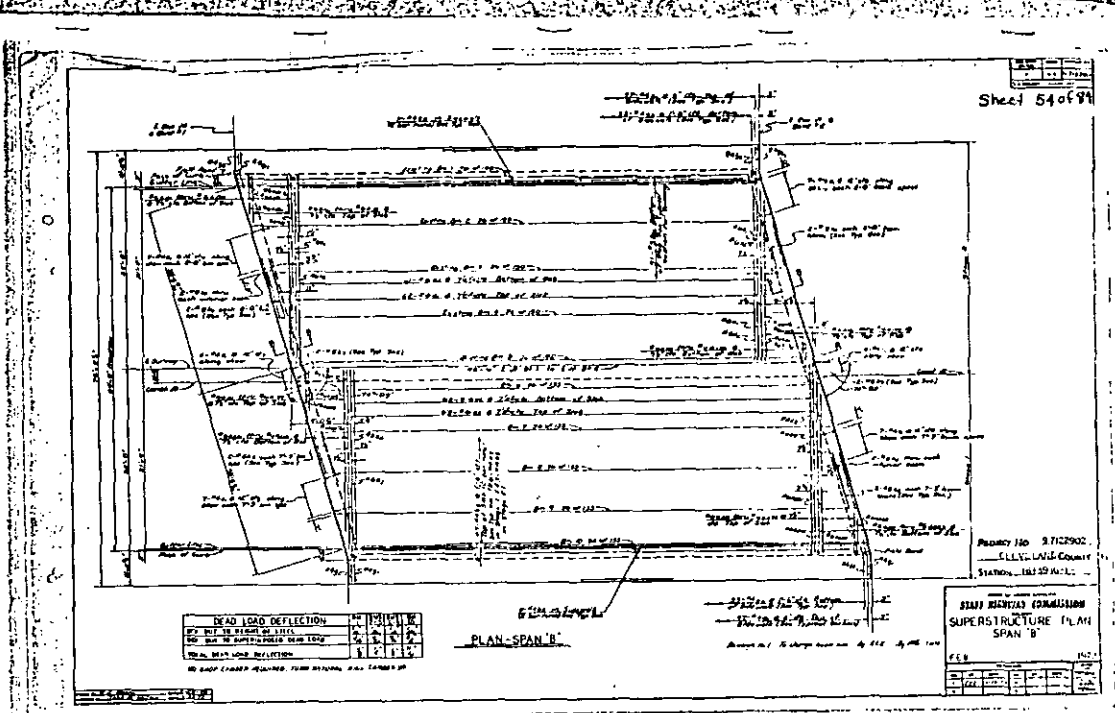
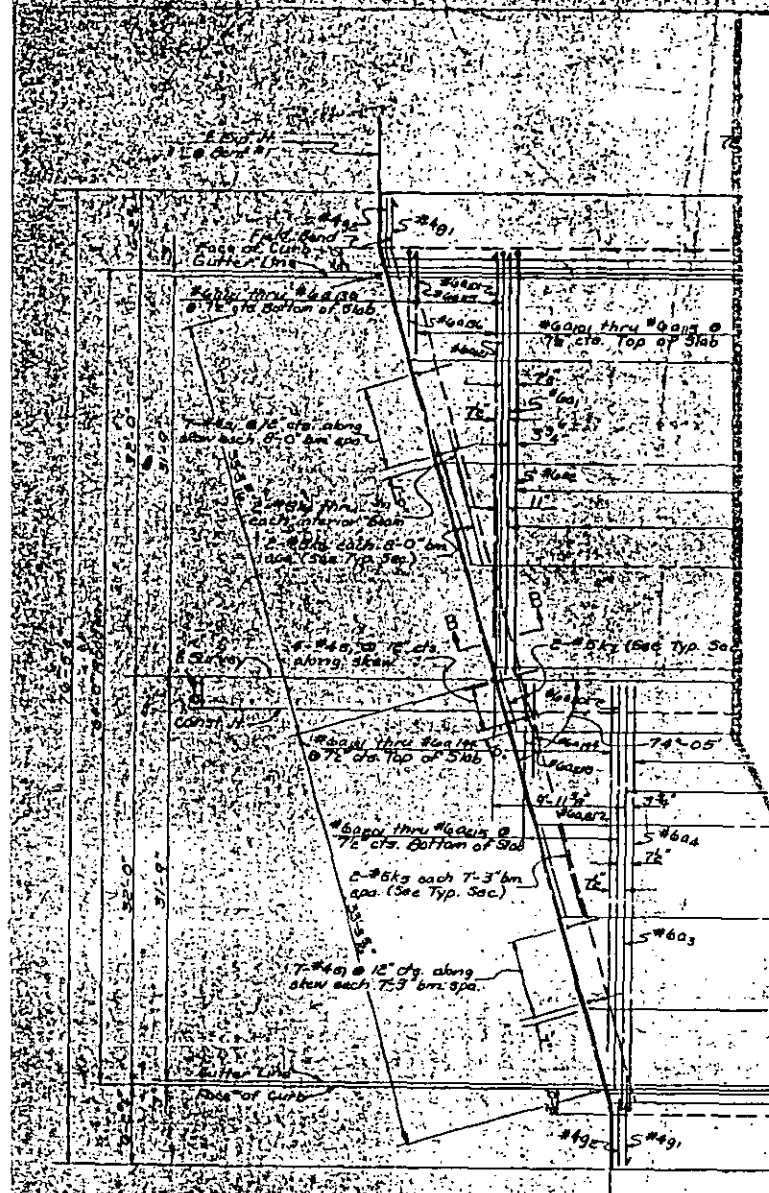
REVISIONS				DATE			
NO.	BY	DATE	NO.	BY	DATE	NO.	DATE
1			2			3	
4			5			6	

SHR 2-5  
TOTAL SHEETS 26

SEE PAGE 32 OF STRUCTURE PLAN RECORD BOOK #1

W. H. Moore DATE 2-21-72  
J. E. Wilson DATE 3-7-72





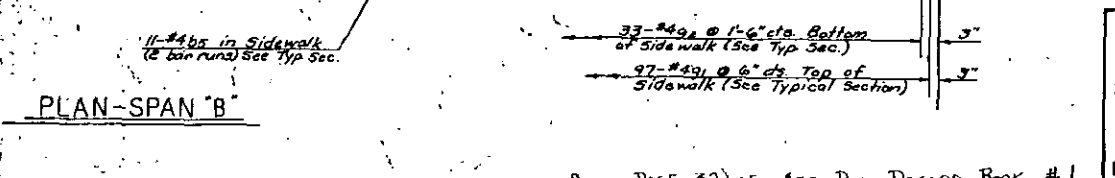
DEAD LOAD DEFLECTION	
BY WEIGHT OF STEEL	1/16"
BY LIVE SUPERIMPOSED DEAD LOAD	1/8"
TOTAL DEAD LOAD DEFLECTION	3/16"

STATE HIGHWAY COMMISSION	
SUPERSTRUCTURE PLAN	
SPAN 'B'	
DATE	FEB 192
BY	
CHECKED	
APPROVED	

SEE PAGE 32 OF STR. PLAN RECORD Book #1.

DEAD LOAD DEFLECTION	
BY WEIGHT OF STEEL	1/16"
BY LIVE SUPERIMPOSED DEAD LOAD	1/8"
TOTAL DEAD LOAD DEFLECTION	3/16"

NO SHOP CAMBER REQUIRED. TURN NATURAL MILL CAMBER UP.



PROJECT No. 9.7122902  
 CLEVELAND COUNTY  
 STATION 16+39.16-1

STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 SUPERSTRUCTURE PLAN  
 SPAN 'B'

FEB. 192	
DATE	
BY	
CHECKED	
APPROVED	

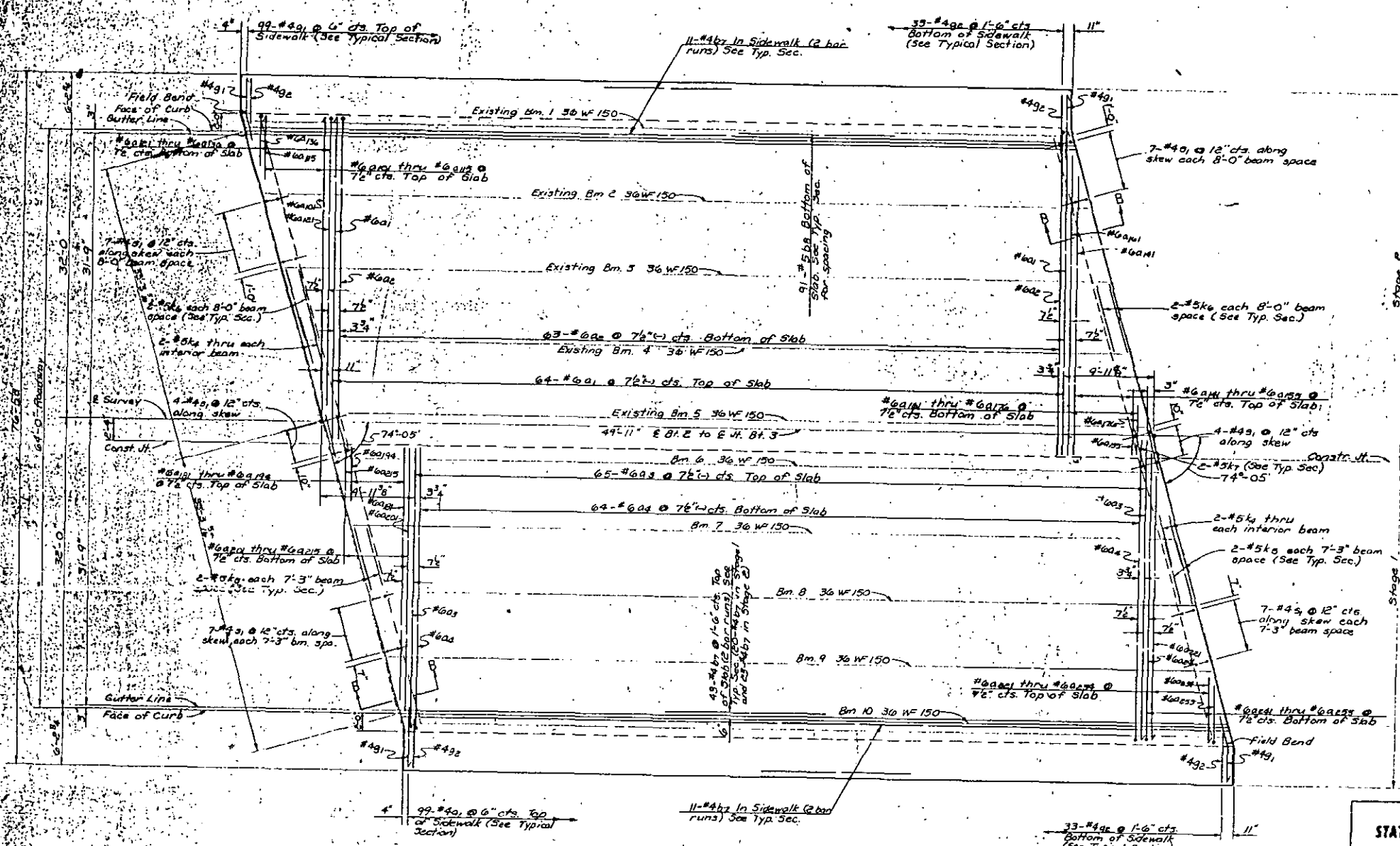
SEE PAGE 32 OF STR. PLAN RECORD Book #1.

NO SHOP CAMBER REQUIRED. TURN NATURAL MILL CAMBER UP.

TOTAL SHEETS	
26	







PROJECT No. 9.7122902  
 CLEVELAND COUNTY  
 STATION: 16+39.16 - L

	BM. 10	BMS 2-5	BMS 6-9	BM. 10
DEAD LOAD DEFLECTION	1/16"	1/16"	1/16"	1/16"
DEF. DUE TO WEIGHT OF STEEL	1/16"	1/16"	1/16"	1/16"
DEF. DUE TO SUPERIMPOSED DEAD LOAD	1/16"	1/16"	1/16"	1/16"
TOTAL DEAD LOAD DEFLECTION	1/16"	1/16"	1/16"	1/16"

NO SHOP CAMBER REQUIRED - TURN NATURAL MTL. CAMBER UP

PLAN-SPAN C

Revision No 1: To change Span C Length By REX By M.C. 12.12.72

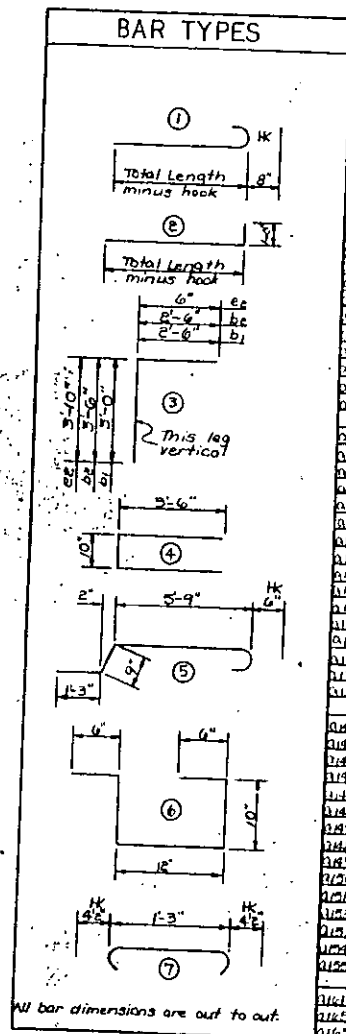
SEE PLY 37 OF STR. PLY RECORD BOOK #1.

STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 SUPERSTRUCTURE  
 PLAN-SPAN C

FEB 1972

NO.	BY	DATE	REVISIONS	NO.	BY	DATE
1	REK	11/13/72				

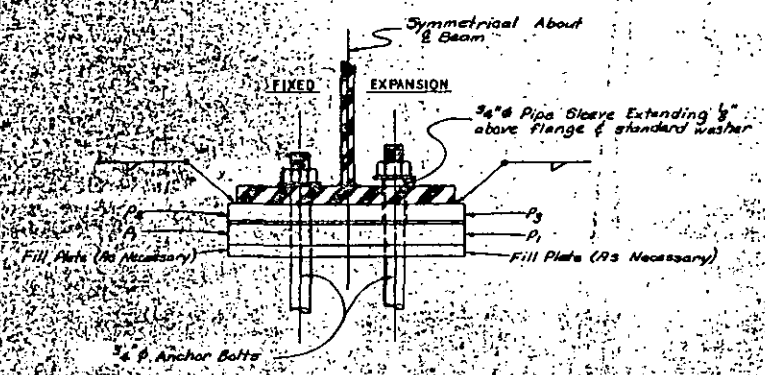




All bar dimensions are out to out.

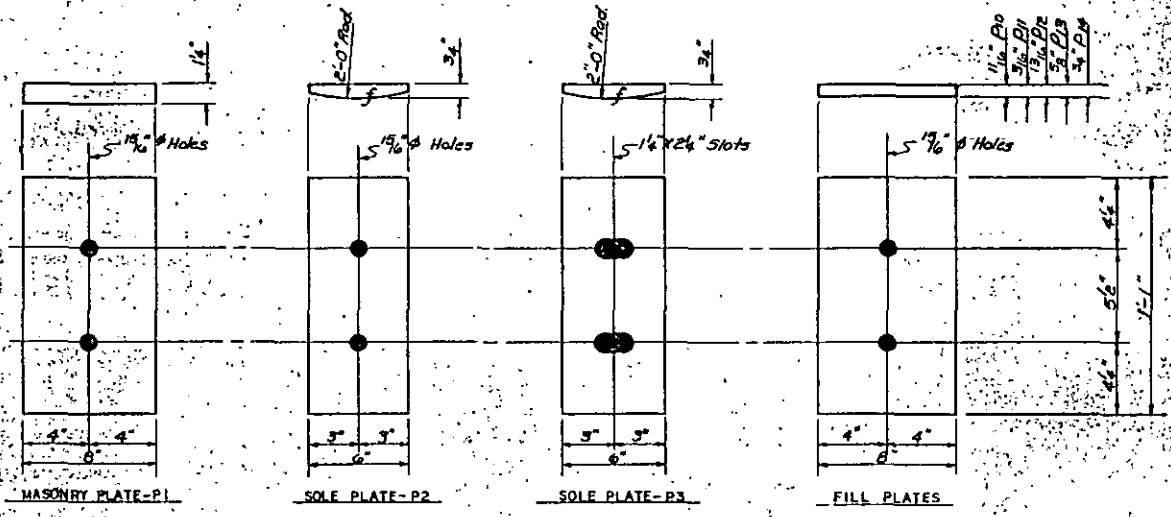
REINFORCING STEEL

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
01	#6	1	34'-7"	2633	0181	#6	Str	31'-8"	190	01	#8	#8	Str	5'-7"	126
02	#6	2	37'-11"	531	0182	#6	Str	29'-5"	177	02	#8	#8	Str	5'-7"	126
03	#6	1	34'-7"	12,633	0183	#6	Str	27'-3"	164	03	#8	#8	Str	4'-4"	278
04	#6	2	34'-7"	11,947	0184	#6	Str	25'-1"	151	04	#8	#8	Str	4'-4"	278
0101	#6	1	34'-7"	208	0185	#6	Str	22'-10"	137	05	#8	#8	Str	7'-10"	188
0102	#6	1	32'-4"	194	0186	#6	Str	20'-8"	129	06	#8	#8	Str	5'-4"	36
0103	#6	1	30'-2"	181	0187	#6	Str	18'-6"	111	07	#8	#8	Str	5'-4"	36
0104	#6	1	28'-0"	169	0188	#6	Str	16'-4"	98	08	#8	#8	Str	5'-4"	36
0105	#6	1	25'-9"	155	0189	#6	Str	14'-1"	85	09	#8	#8	Str	5'-4"	36
0106	#6	1	23'-7"	142	0190	#6	Str	11'-11"	72	10	#8	#8	Str	5'-4"	36
0107	#6	1	21'-5"	129	0191	#6	Str	9'-9"	59	11	#8	#8	Str	5'-4"	36
0108	#6	1	19'-3"	116	0192	#6	Str	7'-6"	45	12	#8	#8	Str	5'-4"	36
0109	#6	1	17'-0"	102	0193	#6	Str	5'-4"	32	13	#8	#8	Str	5'-4"	36
0110	#6	1	14'-10"	89	0194	#6	Str	3'-2"	19	14	#8	#8	Str	5'-4"	36
0111	#6	1	12'-8"	76	0201	#6	Str	32'-9"	197	15	#8	#8	Str	5'-4"	36
0112	#6	1	10'-5"	63	0202	#6	Str	30'-6"	183	16	#8	#8	Str	5'-4"	36
0113	#6	1	8'-3"	50	0203	#6	Str	28'-4"	170	17	#8	#8	Str	5'-4"	36
0114	#6	1	6'-1"	37	0204	#6	Str	26'-2"	157	18	#8	#8	Str	5'-4"	36
0115	#6	1	3'-10"	23	0205	#6	Str	24'-0"	144	19	#8	#8	Str	5'-4"	36
0116	#6	2	30'-0"	216	0206	#6	Str	21'-9"	131	20	#8	#8	Str	5'-4"	36
0117	#6	2	28'-9"	203	0207	#6	Str	19'-7"	118	21	#8	#8	Str	5'-4"	36
0118	#6	2	27'-7"	190	0208	#6	Str	17'-5"	105	22	#8	#8	Str	5'-4"	36
0119	#6	2	25'-5"	177	0209	#6	Str	15'-2"	91	23	#8	#8	Str	5'-4"	36
0120	#6	2	23'-3"	164	0210	#6	Str	13'-0"	78	24	#8	#8	Str	5'-4"	36
0121	#6	2	21'-0"	150	0211	#6	Str	10'-10"	65	25	#8	#8	Str	5'-4"	36
0122	#6	2	18'-8"	137	0212	#6	Str	8'-7"	52	26	#8	#8	Str	5'-4"	36
0123	#6	2	16'-5"	124	0213	#6	Str	6'-5"	39	27	#8	#8	Str	5'-4"	36
0124	#6	2	14'-3"	111	0214	#6	Str	4'-3"	26	28	#8	#8	Str	5'-4"	36
0125	#6	2	12'-1"	98	0215	#6	Str	2'-1"	13	29	#8	#8	Str	5'-4"	36
0126	#6	2	11'-10"	85	0221	#6	1	32'-3"	194	30	#8	#8	Str	5'-4"	36
0127	#6	2	11'-10"	71	0222	#6	1	30'-0"	180	31	#8	#8	Str	5'-4"	36
0128	#6	2	9'-8"	58	0223	#6	1	27'-10"	167	32	#8	#8	Str	5'-4"	36
0129	#6	2	7'-6"	45	0224	#6	1	25'-8"	154	33	#8	#8	Str	5'-4"	36
0130	#6	2	5'-4"	32	0225	#6	1	23'-5"	141	34	#8	#8	Str	5'-4"	36
0131	#6	2	3'-1"	19	0226	#6	1	21'-3"	128	35	#8	#8	Str	5'-4"	36
0132	#6	2	11'-10"	85	0227	#6	1	19'-1"	115	36	#8	#8	Str	5'-4"	36
0133	#6	2	11'-10"	71	0228	#6	1	16'-11"	102	37	#8	#8	Str	5'-4"	36
0134	#6	2	9'-8"	58	0229	#6	1	14'-9"	89	38	#8	#8	Str	5'-4"	36
0135	#6	2	7'-6"	45	0230	#6	1	12'-6"	75	39	#8	#8	Str	5'-4"	36
0136	#6	2	5'-4"	32	0231	#6	1	10'-4"	62	40	#8	#8	Str	5'-4"	36
0137	#6	2	3'-1"	19	0232	#6	1	8'-1"	49	41	#8	#8	Str	5'-4"	36
0138	#6	2	11'-10"	85	0233	#6	1	5'-11"	36	42	#8	#8	Str	5'-4"	36
0139	#6	2	11'-10"	71	0234	#6	1	3'-9"	23	43	#8	#8	Str	5'-4"	36
0140	#6	2	9'-8"	58	0241	#6	2	33'-8"	202	44	#8	#8	Str	5'-4"	36
0141	#6	2	9'-8"	45	0242	#6	2	31'-5"	189	45	#8	#8	Str	5'-4"	36
0142	#6	2	7'-6"	32	0243	#6	2	29'-3"	176	46	#8	#8	Str	5'-4"	36
0143	#6	2	5'-4"	19	0244	#6	2	27'-1"	163	47	#8	#8	Str	5'-4"	36
0144	#6	2	3'-1"	6	0245	#6	2	24'-11"	150	48	#8	#8	Str	5'-4"	36
0145	#6	2	11'-10"	85	0246	#6	2	22'-9"	136	49	#8	#8	Str	5'-4"	36
0146	#6	2	11'-10"	71	0247	#6	2	20'-6"	123	50	#8	#8	Str	5'-4"	36
0147	#6	2	9'-8"	58	0248	#6	2	18'-4"	110	51	#8	#8	Str	5'-4"	36
0148	#6	2	7'-6"	45	0249	#6	2	16'-1"	97	52	#8	#8	Str	5'-4"	36
0149	#6	2	5'-4"	32	0250	#6	2	13'-11"	84	53	#8	#8	Str	5'-4"	36
0150	#6	2	3'-1"	19	0251	#6	2	11'-9"	71	54	#8	#8	Str	5'-4"	36
0151	#6	2	11'-10"	85	0252	#6	2	9'-6"	57	55	#8	#8	Str	5'-4"	36
0152	#6	2	11'-10"	71	0253	#6	2	7'-4"	44	56	#8	#8	Str	5'-4"	36
0153	#6	2	9'-8"	58	0254	#6	2	5'-2"	31	57	#8	#8	Str	5'-4"	36
0154	#6	2	7'-6"	45	0255	#6	2	3'-0"	18	58	#8	#8	Str	5'-4"	36
0155	#6	2	5'-4"	32	01	#4	3	5'-6"	331	59	#8	#8	Str	5'-4"	36
0156	#6	2	3'-1"	19	02	#4	3	4'-0"	96	60	#8	#8	Str	5'-4"	36
0157	#6	2	11'-10"	85	03	#4	3	22'-2"	360	61	#8	#8	Str	5'-4"	36
0158	#6	2	11'-10"	71	04	#4	3	18'-2"	280	62	#8	#8	Str	5'-4"	36
0159	#6	2	9'-8"	58	05	#4	3	14'-11"	216	63	#8	#8	Str	5'-4"	36
0160	#6	2	7'-6"	45	06	#4	3	11'-11"	164	64	#8	#8	Str	5'-4"	36
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0169	#6	2	11'-10"	85	15	#4	3	4'-5"	47	73	#8	#8	Str	5'-4"	36
0170	#6	2	11'-10"	71	16	#4	3	4'-5"	47	74	#8	#8	Str	5'-4"	36
0171	#6	2	9'-8"	58	17	#4	3	4'-5"	47	75	#8	#8	Str	5'-4"	36
0172	#6	2	7'-6"	45	18	#4	3	4'-5"	47	76	#8	#8	Str	5'-4"	36
0173	#6	2	5'-4"	32	19	#4	3	4'-5"	47	77	#8	#8	Str	5'-4"	36
0174	#6	2	3'-1"	19	20	#4	3	4'-5"	47	78	#8	#8	Str	5'-4"	36
0175	#6	2	11'-10"	85	21	#4	3	4'-5"	47	79	#8	#8	Str	5'-4"	36
0176	#6	2	11'-10"	71	22	#4	3	4'-5"	47	80	#8	#8	Str	5'-4"	36
0177	#6	2	9'-8"	58	23	#4	3	4'-5"	47	81	#8	#8	Str	5'-4"	36
0178	#6	2	7'-6"	45	24	#4	3	4'-5"	47	82	#8	#8	Str	5'-4"	36
0179	#6	2	5'-4"	32	25	#4	3	4'-5"	47	83	#8	#8	Str	5'-4"	36
0180	#6	2	3'-1"	19	26	#4	3	4'-5"	47	84	#8	#8	Str	5'-4"	36
0181	#6	2	11'-10"	85	27	#4	3	4'-5"	47	85	#8	#8	Str	5'-4"	36
0182	#6	2	11'-10"	71	28	#4	3	4'-5"	47	86	#8	#8	Str	5'-4"	36
0183	#6	2	9'-8"	58	29	#4	3	4'-5"	47	87	#8	#8	Str	5'-4"	36
0184	#6	2	7'-6"	45	30	#4	3	4'-5"	47	88	#8	#8	Str	5'-4"	36
0185	#6	2	5'-4"	32	31	#4	3	4'-5"	47	89	#8	#8	Str	5'-4"	36
0186	#6	2	3'-1"	19	32	#4	3	4'-5"	47	90	#8	#8	Str	5'-4"	36
0187	#6	2	11'-10"	85	33	#4	3	4'-5"	47	91	#8	#8	Str	5'-4"	36
0188	#6	2	11'-10"	71	34	#4	3	4'-5"	47	92	#8	#8	Str	5'-4"	36
0189	#6	2	9'-8"	58	35	#4	3	4'-5"	47	93	#8	#8	Str	5'-4"	36
0190	#6	2	7'-6"	45	36	#4	3	4'-5"	47	94	#8	#8	Str	5'-4"	36
0191	#6	2	5'-4"	32	37	#4	3	4'-5"	47	95	#8	#8	Str	5'-4"	36
0192	#6	2	3'-1"	19	38	#4	3	4'-5"	47	96	#8	#8	Str	5'-4"	36
0193	#6	2	11'-10"	85	39	#4	3	4'-5"	47	97	#8	#8	Str	5'-4"	36
0194	#6	2	11'-10"	71	40	#4	3	4'-5"	47	98	#8	#8	Str	5'-4"	36
0195	#6	2	9'-8"	58	41	#4	3	4'-5"	47	99	#8	#8	Str	5'-4"	36
0196	#6	2	7'-6"	45	42	#4	3	4'-5"	47	100	#8	#8	Str	5'-4"	36
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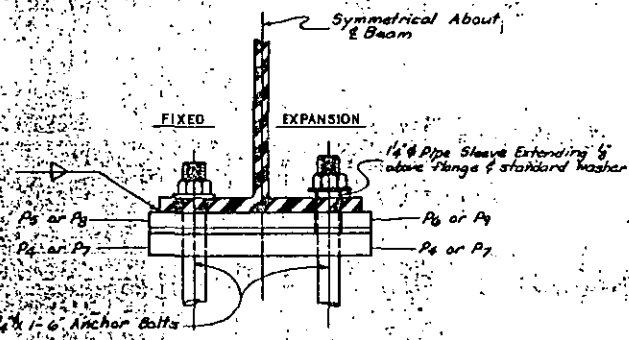
**BEARING DETAIL**

FOR EXISTING BEAMS ONLY  
NOTE EXISTING SOLE, MASONRY, AND SHIM PLATES TO BE REMOVED.



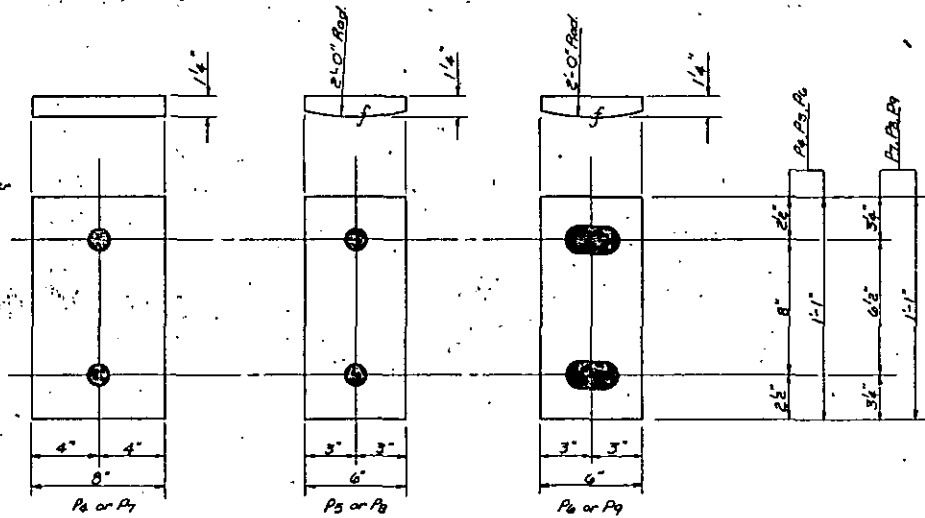
**BEARING PLATE DETAIL**  
**STAGE 2**

Note: Masonry Plates and Fill Plates to be smooth and straight on both sides. Fill Plates may be combined together or with masonry plates.



**BEARING DETAIL**

FOR NEW BEAMS ONLY



**BEARING PLATE DETAIL**  
**STAGE 1**

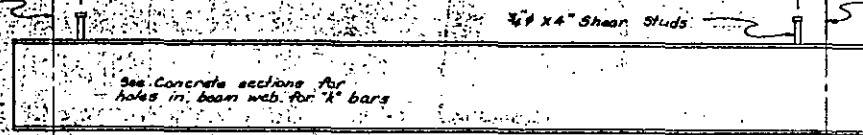
SEE PAGE 32 OF STR. PLAN, RECORD BOOK #1.

PROJECT No. 9.7122902  
CLEVELAND COUNTY  
STATION: 16+39.16 - 1

STATE OF NORTH CAROLINA	
STATE HIGHWAY COMMISSION	
RALEIGH	
STRUCTURAL STEEL	
MARCH	1972
REVISIONS	
NO.	DATE
1	
2	
3	

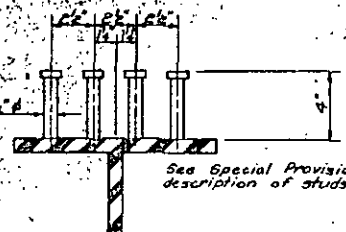
DESIGNED BY: R.H. DOWNS DATE: 3-2-72  
CHECKED BY: CHAS. S. GILLESPIE DATE: 3-21-72

Number Studs per beam	Span	Beam	Spacing	Notes
164	A & D	Bms 1-5, 9.0 Spa @ 12"	39'-11 1/2"	✓
160	A, C, D	Bms 6-10, 8.4 Spa @ 9 1/2"	39'-11 1/2"	✓
180	B	Bms 1-5, 4.4 Spa @ 1'-1 1/2"	46'-8"	✓
164	B	Bms 6-10, 4.0 Spa @ 1'-2"	46'-8"	✓
184	C	Bms 1-5, 4.5 Spa @ 1'-1 1/2"	47'-11 1/2"	✓
172	C	Bms 6-10, 4.6 Spa @ 1'-2"	47'-11 1/2"	✓

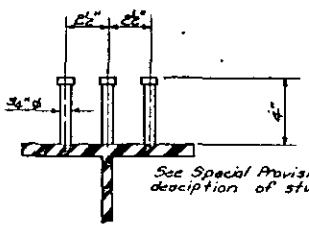


**SHEAR STUD SPACING**

Note: Turn natural beam camber up.



**SHEAR STUD DETAIL**  
BEAMS 1 THRU 5 SPANS A AND D  
ALL BEAMS SPANS B AND C  
SEE NOTES



**SHEAR STUD DETAIL**  
BEAMS 6 THRU 10 SPANS A AND D

**NOTES**

APPROXIMATE DESIGN - A.S.T.M. (1969)  
WELDING - A.S.T.M. (1969)

WELD METS. AND WELD METS. TO BE IN ACCORDANCE WITH THE LATEST AND SPECIFICATIONS BUT NOT LESS THAN 1/2" MINIMUM.

ALL DIMENSIONS SHOWN ARE HORIZONTAL OR VERTICAL UNLESS OTHERWISE NOTED.

ALL WELD JOINTS SHALL BE FULL PENETRATION BUT NOT LESS THAN 1/4" MINIMUM.

SEE SUPERSTRUCTURE SPECIAL PROVISIONS FOR LOCATION OF ALL STUDS IN BEAM AND FOR X BARS.

IF WELD JOINTS ARE REQUIRED FOR JACK BOLTS AND TO BE INSTALLED UNDER STUDS THEY SHALL BE INSTALLED ON ONE SIDE OF THE STUD AND BOLT SHALL BE INSTALLED UNDER STUDS INSTALLED UNDER STUDS.

ALL WELD JOINTS SHALL BE FULL PENETRATION BUT NOT LESS THAN 1/4" MINIMUM.

ALL WELD JOINTS SHALL BE FULL PENETRATION BUT NOT LESS THAN 1/4" MINIMUM.

SEE SPECIAL PROVISIONS

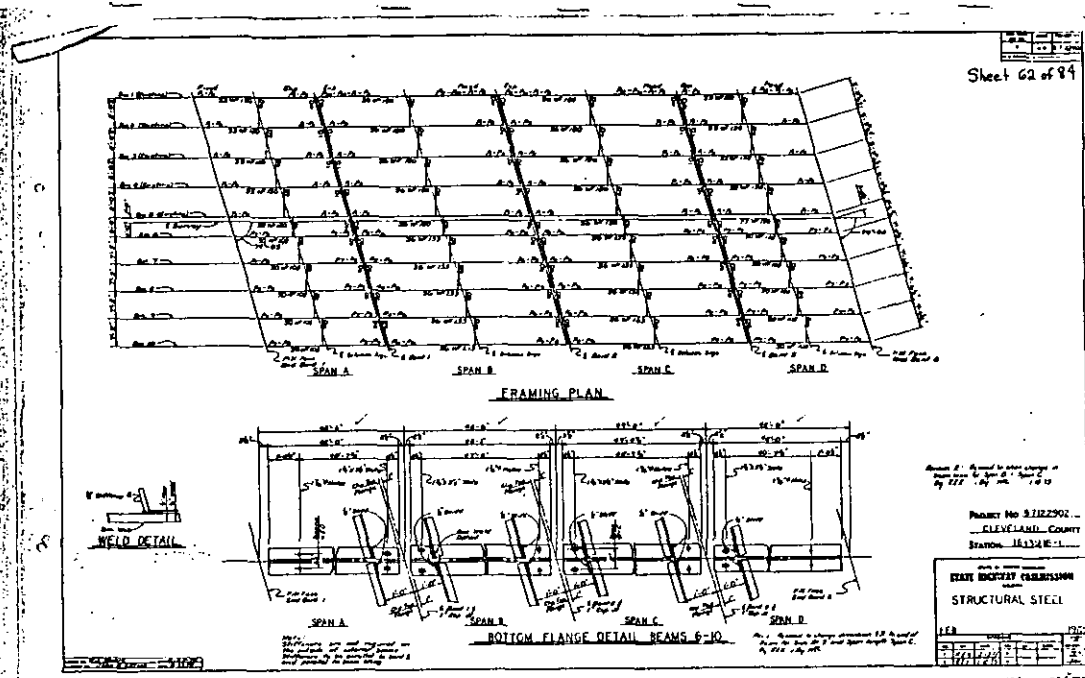
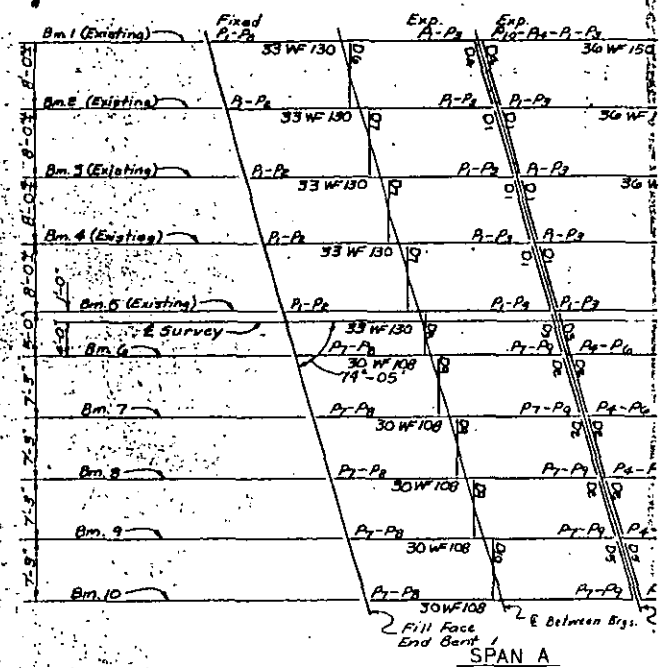
PROJECT No. 9.7122902  
CLEVELAND COUNTY  
STATION 16+39.16-1-

SEE PAGE 32 OF STR. PLAN RECORD BOOK #1.

STATE OF NORTH CAROLINA					
STATE HIGHWAY COMMISSION					
SUPERSTRUCTURE					
STRUCTURAL STEEL					
MARCH					1972
REV.	BY	DATE	APP.	DATE	REVISION
1					
2					

DESIGNED BY: H. J. Moore DATE: 3-27-72  
CHECKED BY: VERA G. WILSON DATE: 3-27-72

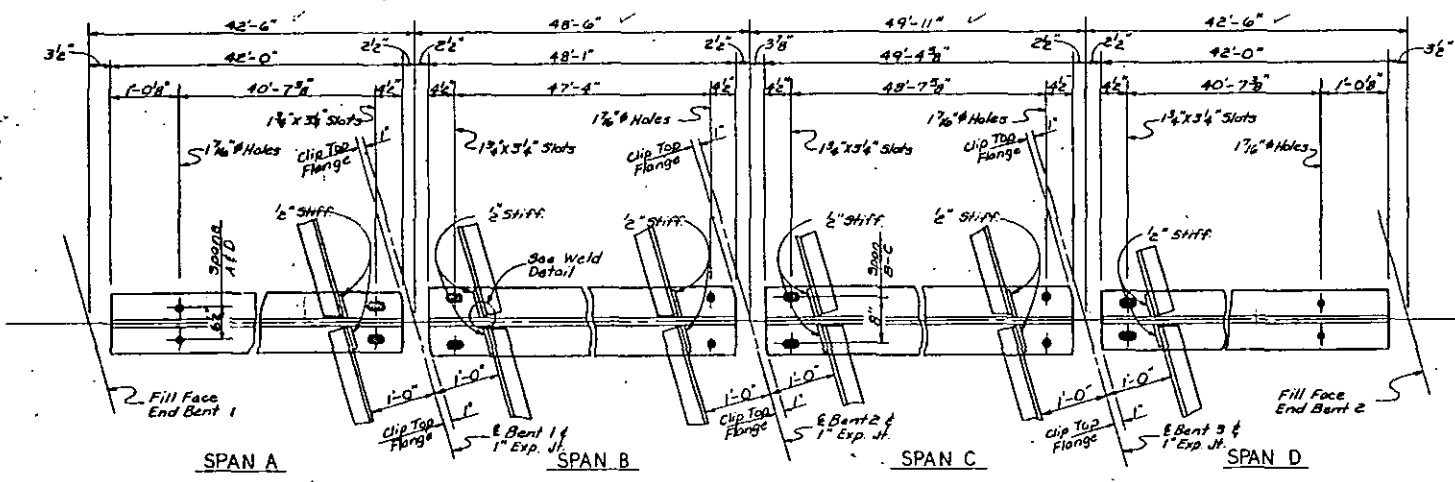
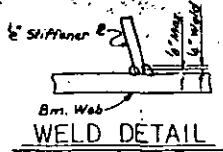




PROJECT No. 9.7122902  
 CLEVELAND COUNTY  
 STATION 16+39.6-L-1

STATE HIGHWAY COMMISSION  
 STRUCTURAL STEEL

SEE PAGE 32 OF STR. PAY RECORD BOOK #1.



Notes:  
 Stiffeners are not required on the outside of exterior beams.  
 Stiffeners to be parallel to bent E and parallel to beam ends.

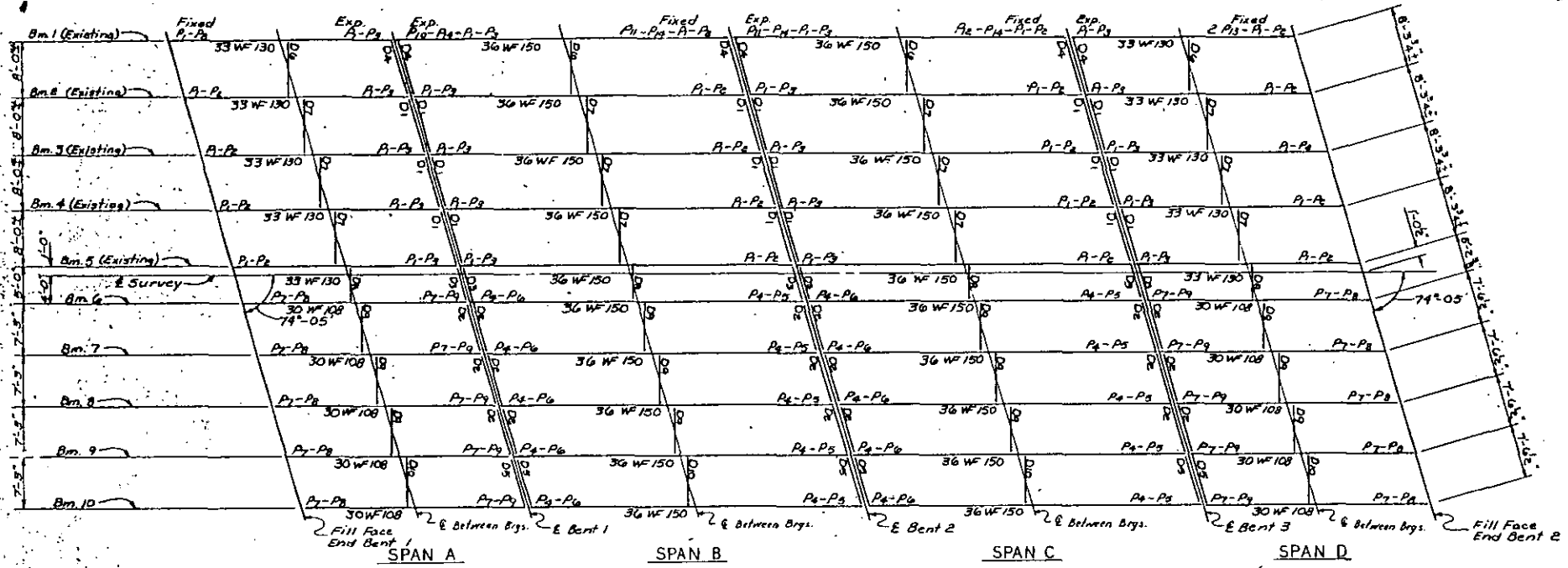
Rev. 1: Revised to change dimension E.H. to end of beam for Side of 2 and Span length Span C.  
 By REK. / By MJC

SEE PAGE 32 OF STR. PAY RECORD BOOK #1

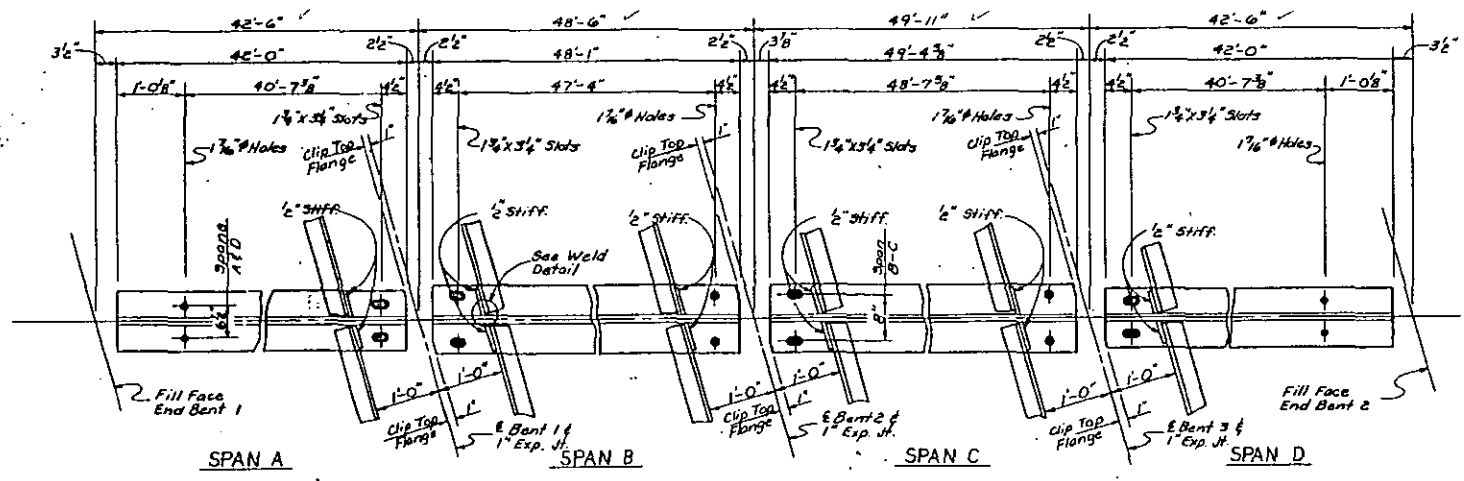
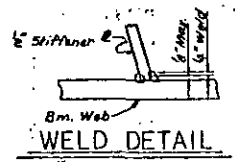
PROJECT No. 9.7122902  
 CLEVELAND COUNTY  
 STATION 16+39.6-L-1

STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 BALDWIN  
 STRUCTURAL STEEL

FEB		1972	
REVISIONS			
NO.	BY	DATE	BY
1	REK	12.15.72	
2			



FRAMING PLAN



BOTTOM FLANGE DETAIL BEAMS 6-10

Note:  
Stiffeners are not required on the outside of exterior beams.  
Stiffeners to be parallel to bent E and parallel to beam ends.

Rev 1: Revised to change dimension E.H. to end of beam for Side St 2 and Span length Span C.  
By REK. JBy WJC

See Page 32 of STR. PAY RECORD Book # 1

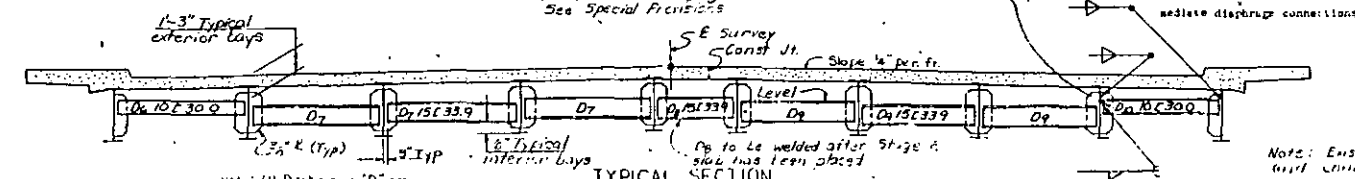
PROJECT No. 9.7122902  
CLEVELAND COUNTY  
STATION 16+39.16-1-

STATE OF NORTH CAROLINA  
STATE HIGHWAY COMMISSION  
RALEIGH  
STRUCTURAL STEEL

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1	REK	12.13.72	2		
2			3		

Note: In lieu of the welding procedure for shop and field welds indicated for the intermediate diaphragm connections, the contractor may, at his option, shop weld the connector plates to the beam webs and field weld the channels to the connector plates. Special care in handling the beams must be observed if the connector plates are shop welded to the beam webs. The contractor may, at his option, but without change in the contract price or structural steel, use ST 9 WF 25 connections bolted to the beam web and welded to the channel diaphragm in lieu of the welded plate intermediate diaphragm connections shown.

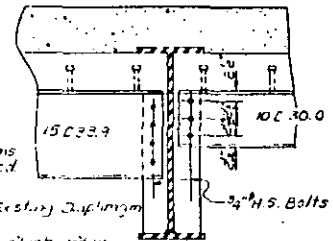
Note: Erection bolts may be used at the Contractor's option. One erection bolt for each diaphragm connection. Holes shall be of 1/8" greater diameter than the bolts. See Special Provisions.



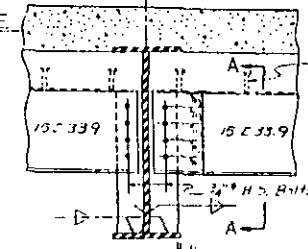
Note: All Diaphragms "D" are Horizontal and are placed normal to E Survey.

TYPICAL SECTION SHOWING INTERMEDIATE DIAPHRAGMS

Note: Existing intermediate diaphragms and connector plates to be removed.



EXISTING BIN INTERMEDIATE DIAPHRAGM DETAIL

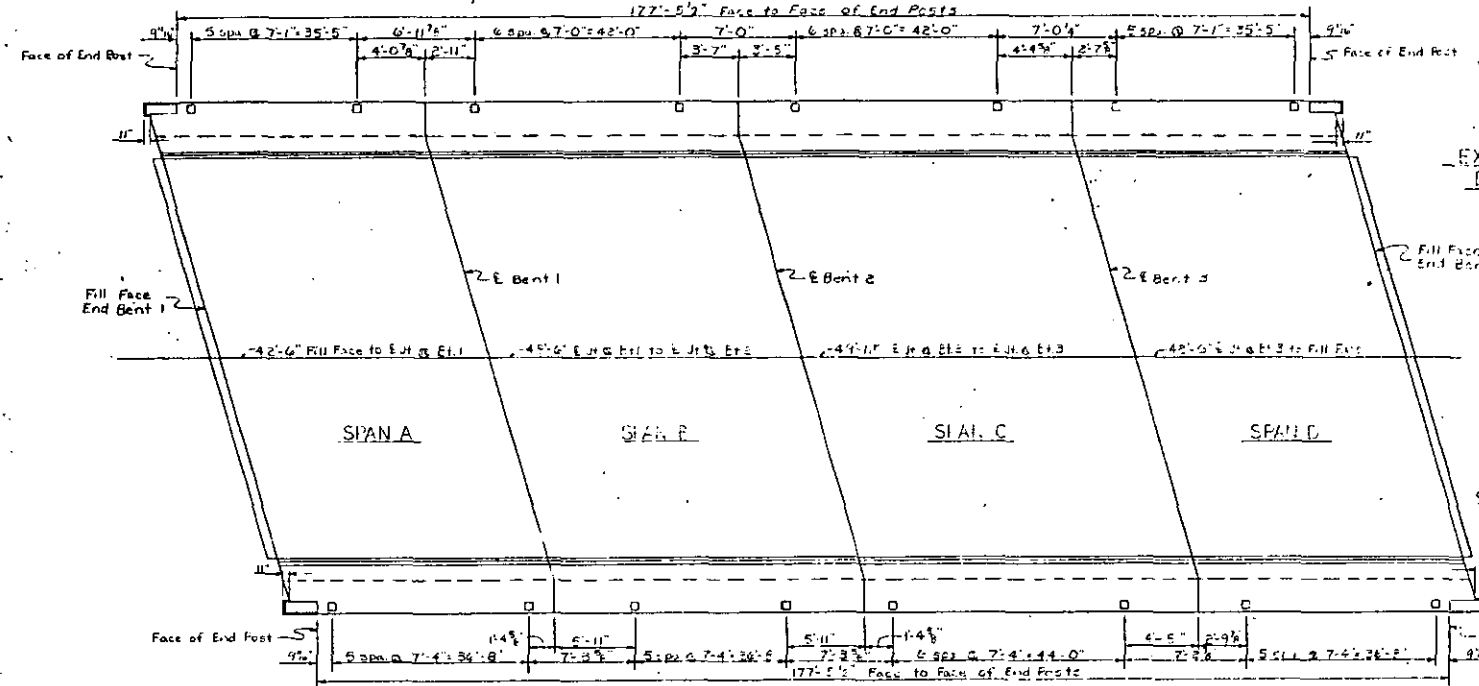


BENT DIAPHRAGM DETAILS

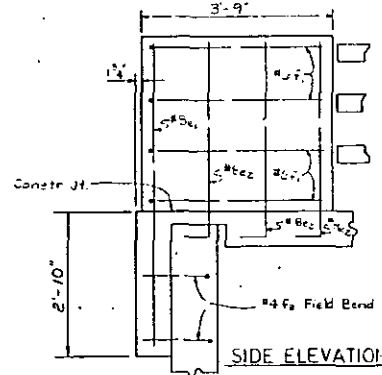
SEE PAGE 30 OF STR. PLAN REVISION 11.1

SECTION A-A

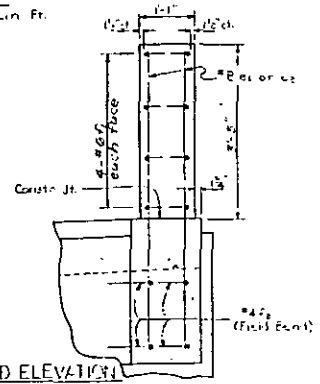
Rev 1: Revised to change dimension Face to Face of End Posts, and End Base to 1/2" Pad and Span Length Span C. By REXBY



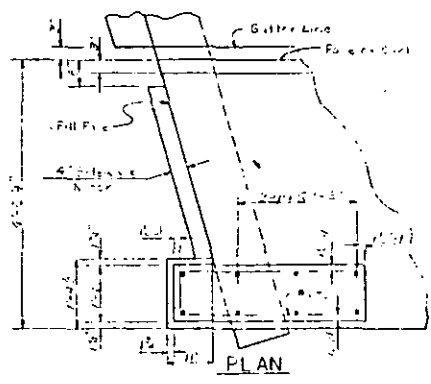
RAIL PLAN



SIDE ELEVATION



END ELEVATION



PLAN

PROJECT No. 97122902  
CLEVELAND COUNTY  
STATION: 16+39.16-L

STATE OF NORTH CAROLINA  
STATE HIGHWAY COMMISSION  
SUPERSTRUCTURE  
STRUCTURAL STEEL-RAIL PLAN  
AND END POST DETAILS

REVISIONS					DATE	BY
NO.	BY	DATE	NO.	BY		
1	REF	10-12-72				

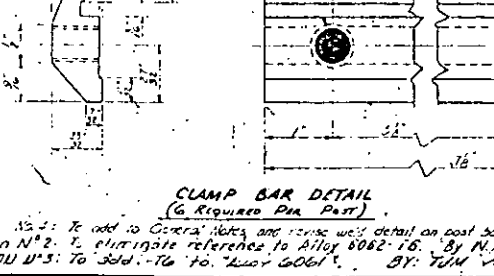
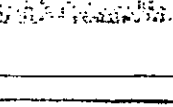
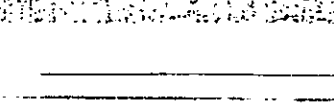
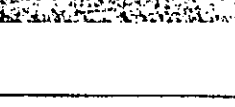
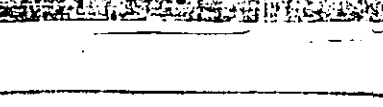
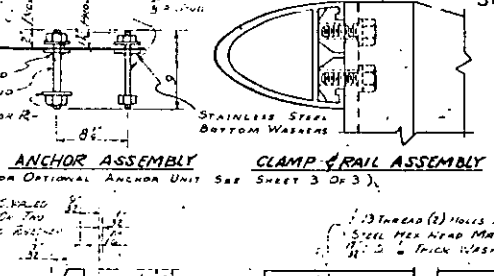
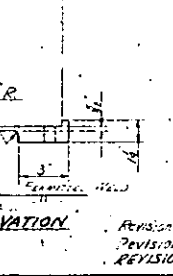
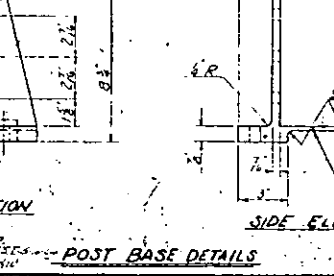
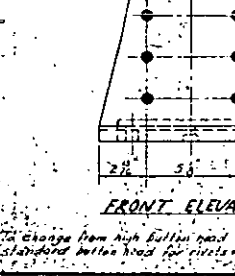
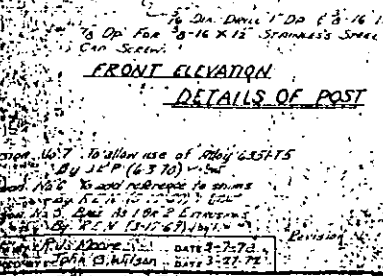
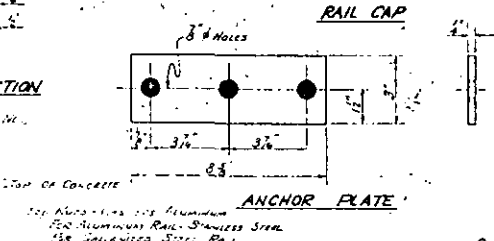
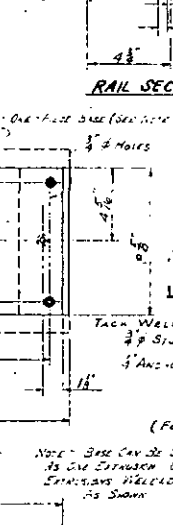
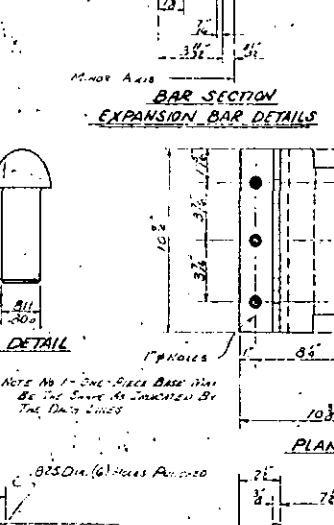
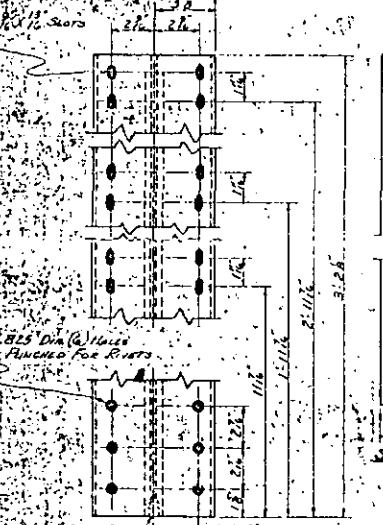
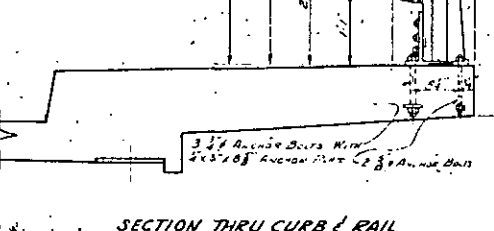
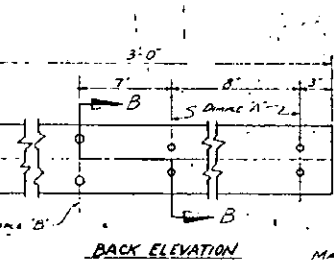
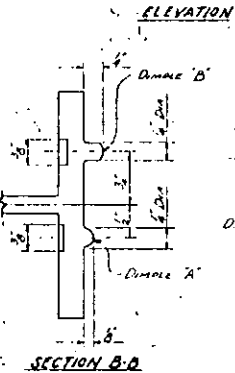
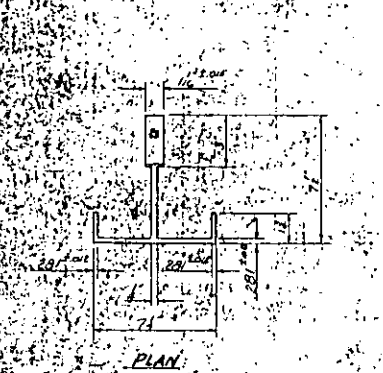
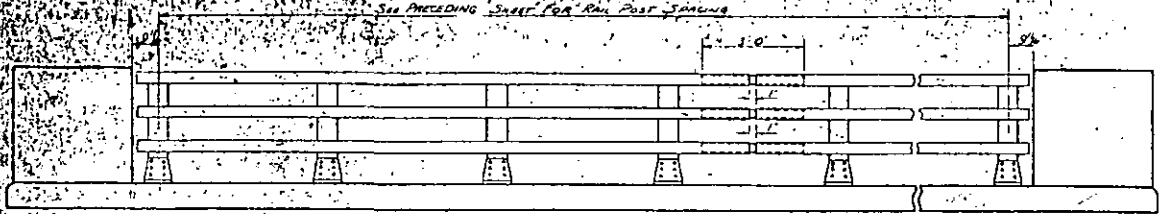
DRAWN BY: H.J. Moore DATE: 7-7-72  
CHECKED BY: John E. Williams DATE: 7-27-72

As The Contractor Order Metal Rail May Be Either Aluminum Or Galvanized Steel In Accordance With The Requirements Of The General Notes And The Following Specifications For The Alternative Materials; However The Contractor Will Be Required To Use The Same Rail Material On All Structures In The Project For Which Metal Rail Is Designated.

**ALUMINUM RAILS**  
 MATERIAL FOR POSTS SHALL BE CONTINUOUS FORM END POST TO END POST OF BRIDGE. EACH JOINT IN RAIL LENGTH SHALL BE SPICED AS DETAILED. PANEL LENGTHS OF RAIL SHALL BE ATTACHED TO A MAXIMUM OF FOUR POSTS. END OF RAIL TO CLEAR FACE OF CURB AND POST BY 1/2".  
 MATERIAL FOR ANCHOR STUDS SHALL BE TYPE 430 STAINLESS STEEL WITH MINIMUM TENSILE STRENGTH 140,000 P.S.I. WITH 40% ELONGATION.  
 STUDS TO BE 2" DIA. 7" IN CONCRETE. NUTS SHALL BE AMERICAN STANDARD FINISHED HEXAGON TRUCK NUTS. THE 7 IS THROTTLE ANCHOR PLATE SHALL BE 5/16" THICK GALVANIZED STEEL. THE RAIL ATTACHMENT SHALL BE STAINLESS STEEL.  
 CERTIFIED MILL REPORTS ARE REQUIRED FOR ALL MATERIALS. SIMILAR SECTION IS NOT REQUIRED.  
 NAME RAIL POINT TO BE SET ON RAIL TO CURB SIDE.  
 METHOD OF MEASUREMENT FOR RAIL PANEL LENGTHS CHECKING STRENGTH OF METAL RAILS TO BE FOR FOR SAME AS THE CONTINUOUS HORIZONTAL BRIDGE MEASUREMENT INSIDE TO INSIDE OF CONCRETE CURB. CURVED RAIL CURVES WHERE RAIL HAS TO BE USED ON BRIDGES. ONLY HORIZONTAL RAIL FOR METAL CONCRETE THE CONTRACTOR MAY AT HIS OPTION HAVE THE REQUIRED CURVATURE OF THE RAIL FORMED IN THE SHOP OR IN THE FIELD. IN EITHER CASE THE RAIL SHALL CONTAIN WITHOUT BUCKLING OR TWISTING TO THE REQUIRED CURVATURE IN A CURVE. MINIMUM RAIL LENGTH TO THE 256 FEET.  
 TO INSURE FUTURE IDENTIFICATION OF THE RAIL, COLOR PERMANENT IDENTIFYING MARK SHALL BE PLACED ON EACH JOINT. THE METHOD OF MARKING AND LOCATION SHALL BE SUCH THAT IT DOES NOT DETRACT FROM THE APPEARANCE OF THE RAIL. MARKS TO BE USED AS NECESSARY FOR POST IDENTIFICATION.  
 ALLOY 6351-T5 MAY BE SUBSTITUTED FOR ALLOY 6061-T6 WITH APPROVAL.

**GENERAL NOTES**

**GALVANIZED STEEL RAILS**  
 MATERIALS AND DIMENSIONS ARE TO CONFORM TO THE FOLLOWING SPECIFICATIONS:  
 RAIL TYPE 1 FOOT BASE: A 57M A33 GRADE STRUCTURAL STEEL GALVANIZED TO A 57M A113.  
 RAIL EXPANSION BAR: A 57M A36 GRADE STRUCTURAL STEEL GALVANIZED TO A 57M A113.  
 CLAMP PLATES: SAME AS 57M A113 GRADE GALVANIZED TO A 57M A113.  
 NUTS & WASHERS: THE TOP END OF ANCHOR ASSEMBLY FOR STEEL RAIL SHALL BE TYPE 430 STAINLESS STEEL.  
 THE CUT EDGES OF GALVANIZED STEEL RAILING, AFTER GRINDING SMOOTH SHALL BE GRIND TO THE CORNER OF THE RAIL. AFTER GRINDING TO THE CORNER THE RAIL SHALL BE REFINISHED TO THE CORNER OF THE RAIL. THE METHOD OF FINISHING SHALL BE AS SPECIFIED IN MIL-PRC-135 USA (TYPE 1).  
 THE CUT EDGES OF GALVANIZED STEEL RAILING, AFTER GRINDING SMOOTH SHALL BE GRIND TO THE CORNER OF THE RAIL. AFTER GRINDING TO THE CORNER THE RAIL SHALL BE REFINISHED TO THE CORNER OF THE RAIL. THE METHOD OF FINISHING SHALL BE AS SPECIFIED IN MIL-PRC-135 USA (TYPE 1).  
 REVISION NO. 8: TO ADD BOTTOM STAINLESS STEEL WASHERS. BY JAJ ✓ BY M.C. (1-B-71).  
 REVISION NO. 9: TO CHANGE DIMENSION END POST BASE TO 1" POST. BY REK. BY WKC.



354.13  
 354.69  
 F.A. 1AUG14

PROJECT NO. 97122902  
 CLEVELAND COUNTY  
 STATION: 16+39.16-L

STATE OF NORTH CAROLINA STATE HIGHWAY COMMISSION	DATE: AUGUST 1988
STANDARD 3 BAR METAL RAIL	BY: JAJ ✓ BY: M.C. (1-B-71)
REVISION NO. 8: TO ADD BOTTOM STAINLESS STEEL WASHERS.	BY: JAJ ✓ BY: M.C. (1-B-71)
REVISION NO. 9: TO CHANGE DIMENSION END POST BASE TO 1" POST.	BY: REK. BY: WKC.

REVISION NO. 7: TO ALLOW USE OF ALLOY 6351-T5 BY JAJ (6-3-70).  
 REVISION NO. 8: TO ADD BOTTOM STAINLESS STEEL WASHERS. BY JAJ ✓ BY M.C. (1-B-71).  
 REVISION NO. 9: TO CHANGE DIMENSION END POST BASE TO 1" POST. BY REK. BY WKC.

NOTE: SIZE CAN BE CHANGED AS ONE STATION OR TWO EXPANSION BARS REQUIRED AS SHOWN.

NOTE: SIZE CAN BE CHANGED AS ONE STATION OR TWO EXPANSION BARS REQUIRED AS SHOWN.

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NOTE: SIZE CAN BE CHANGED AS ONE STATION OR TWO EXPANSION BARS REQUIRED AS SHOWN.

NOTE: SIZE CAN BE CHANGED AS ONE STATION OR TWO EXPANSION BARS REQUIRED AS SHOWN.

GENERAL NOTES

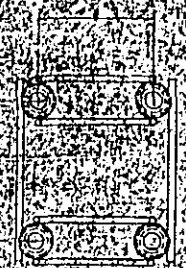
This Preset Anchor Assembly may be used in lieu of the anchorage shown on the Standard Metal Rail Sheet.

The cost of the Preset Anchor Assembly with bolts and washers complete in place shall be included in the price bid for Lin. Ft. Metal Rail. The wire gage and threaded steel inserts to be of sufficient strength to insure load anchoring capacity as specified in the AASB Specifications.

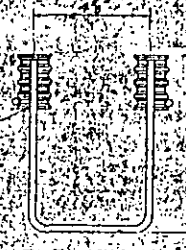
The Preset Anchor Units to be hot dipped galvanized to conform to requirements of ASTM A123.

Anchor Bolts to be either high tensile steel conforming to ASTM A499 and galvanized to conform to ASTM 153 or stainless steel Type 430 with a minimum 70,000 psi ultimate strength.

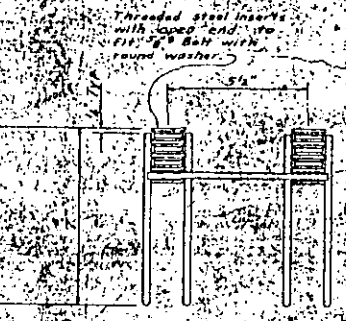
Bolts to be tightened one-half turn with the wrench from a finger-tight position.



PLAN

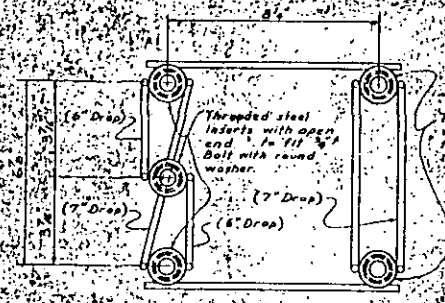


ELEVATION

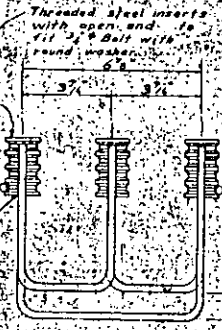


SIDE VIEW

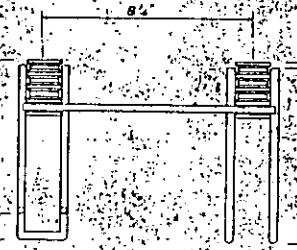
4-BOLT PRESET ANCHOR FOR 1 BAR METAL RAIL



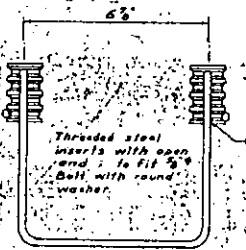
PLAN



LEFT SIDE VIEW

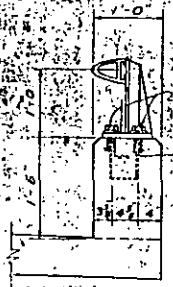


ELEVATION

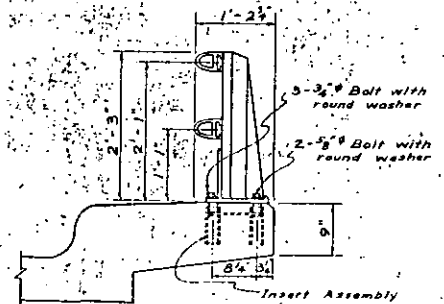


RIGHT SIDE VIEW

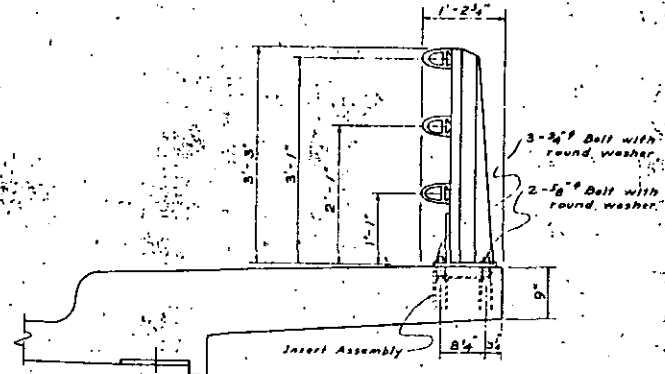
5-BOLT PRESET ANCHOR FOR 2 OR 3 BAR METAL RAIL



SECTION THRU PARAPET & RAIL



SECTION THRU CURB & RAIL



SECTION THRU SIDEWALK & RAIL

Revision NE 1: Revised to change Preset Anchor for 1-Bar Metal Rail. 2-4-71 By J.A.J. /BY J.L.S.

Revision NE 2: Revised to change note concerning tightening of bolts. 3-15-71 By J.A.J. /BY J.L.S.

Revision NE 3: Revised to change weld symbol. 3-19-71 By J.A.J. /BY J.L.S.

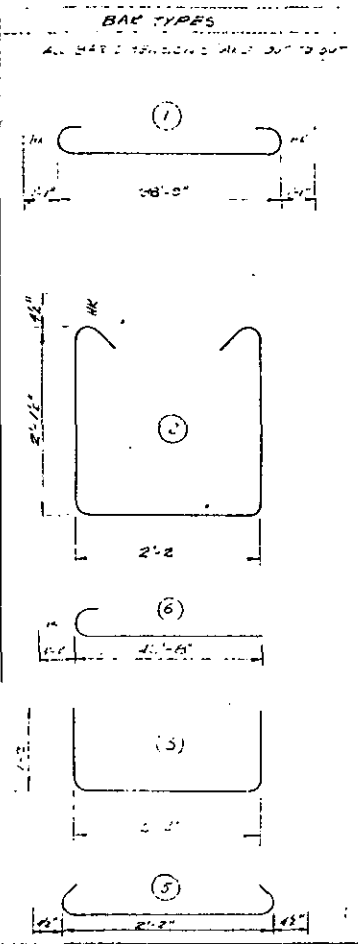
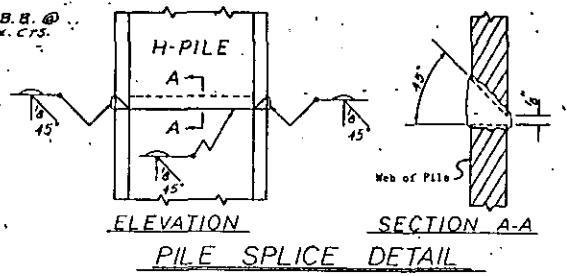
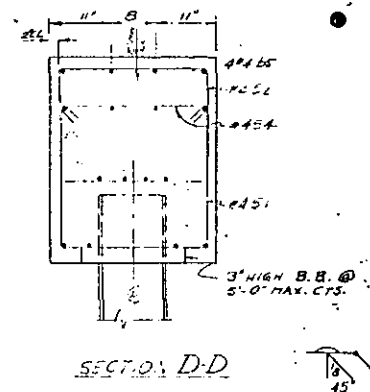
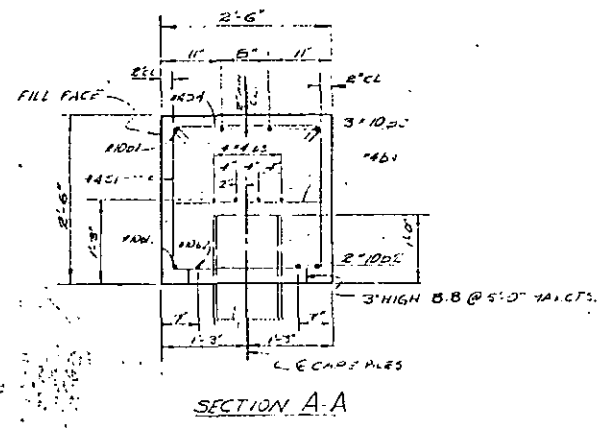
PROJECT No. 97122902  
 CLEVELAND COUNTY  
 STATION 16+39.16

STATE OF NORTH CAROLINA			
STATE HIGHWAY COMMISSION			
RALEIGH			
STANDARD METAL RAIL			
OPTIONAL PRESET ANCHOR UNITS			
DECEMBER 1970			
NO.	BY	DATE	REVISIONS
1	J.A.J.	2-4-71	1
2	J.A.J.	3-15-71	2
3	J.A.J.	3-19-71	3

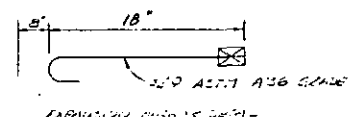
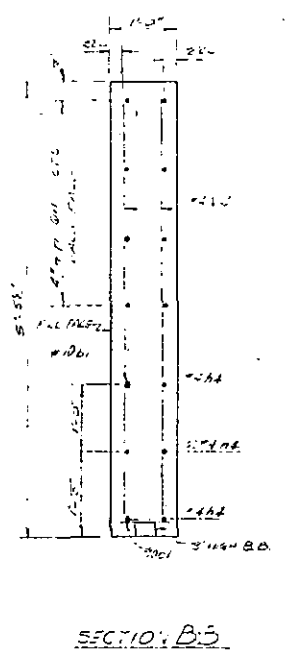
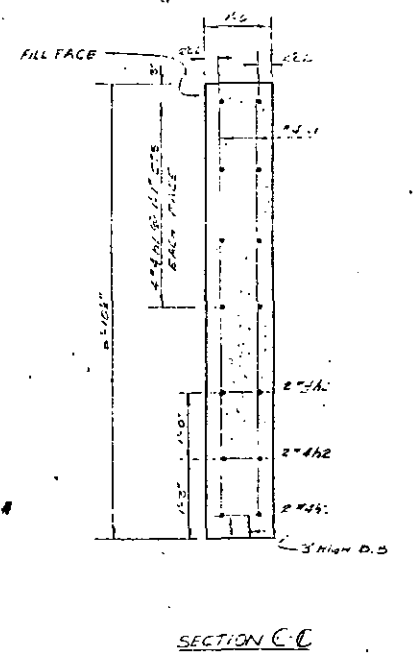
APPROVED: J.A.J. DATE 3-17-71	SPECIAL
APPROVED: J.L.S. DATE 3-27-71	
APPROVED: J.L.S. DATE 3-27-71	STANDARD

SEE PAGE 32 OF STR. DET. RECORD BOOK #1.





BILL OF MATERIAL					
END BENT NO. 1 *					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
61	2	#10	43'-0"	37	
62	8	#10	40'-0"	106	
63	8	#7	50'-0"	107	
64	10	#7	2'-2"	4	
65	4	#7	11'-0"	20	
66	6	#7	4'-11"	26	
67	8	#7	17'-10"	37	
68	8	#7	4'-7"	24	
69	4	#7	5'-0"	18	
70	12	#7	6'-4"	19	
71	12	#7	6'-0"	20	
72	24	#2	7'-0"	108	
73	4	#7	4'-8"	28	
74	2	#7	3'-2"	12	
75	28	#7	2'-11"	58	



REINFORCEMENT BARS  
 @ RECD. KEY EACH END ONLY  
 FOR EMB. DIM. AND LOC. REQUIREMENTS SEE CIV. SHEET

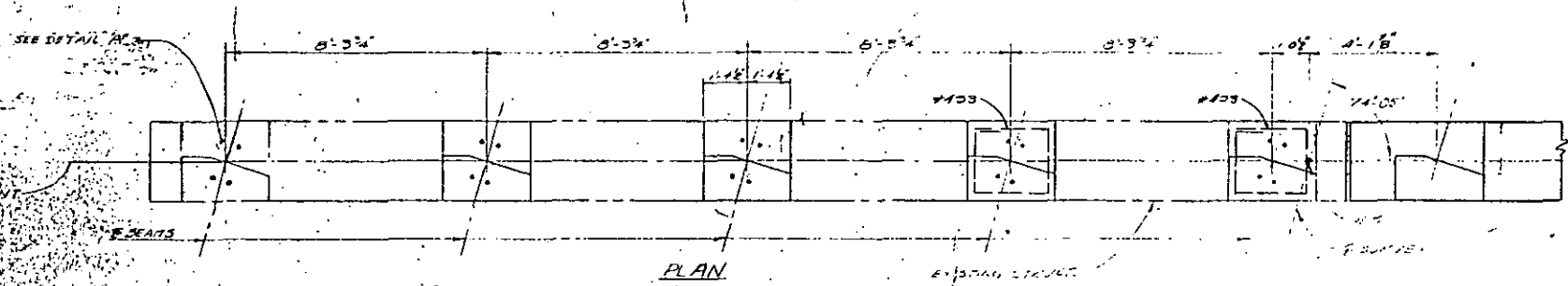
NOTES  
 HORIZONTAL STEEL FROM EXISTING CAP SHALL BE EXTENDED INTO EXISTING PILE, SHALL BE TO BE REINFORCED AND ENDED INTO A NEW CAP. EXISTING BUILT UP END REINFORCEMENT TO BE OF CLASS A. REINFORCED AND KEPT TO REMAIN IN PLACE. EXISTING EXTERIOR CAPS SHALL BE KEPT, NOT TO BE REINFORCED. REINFORCING STEEL SHALL BE KEPT IN PLACE. ALL REINFORCING STEEL SHALL BE KEPT IN PLACE. ALL REINFORCING STEEL SHALL BE KEPT IN PLACE. ALL REINFORCING STEEL SHALL BE KEPT IN PLACE.

PROJECT No. 272292  
 CLEVELAND COUNTY  
 STATION... 16+39.16 - 6-

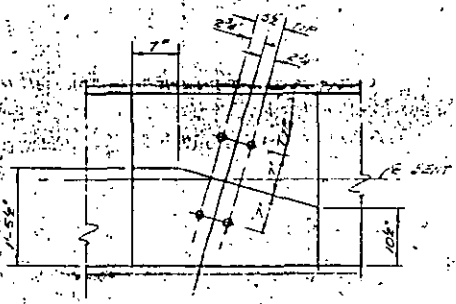
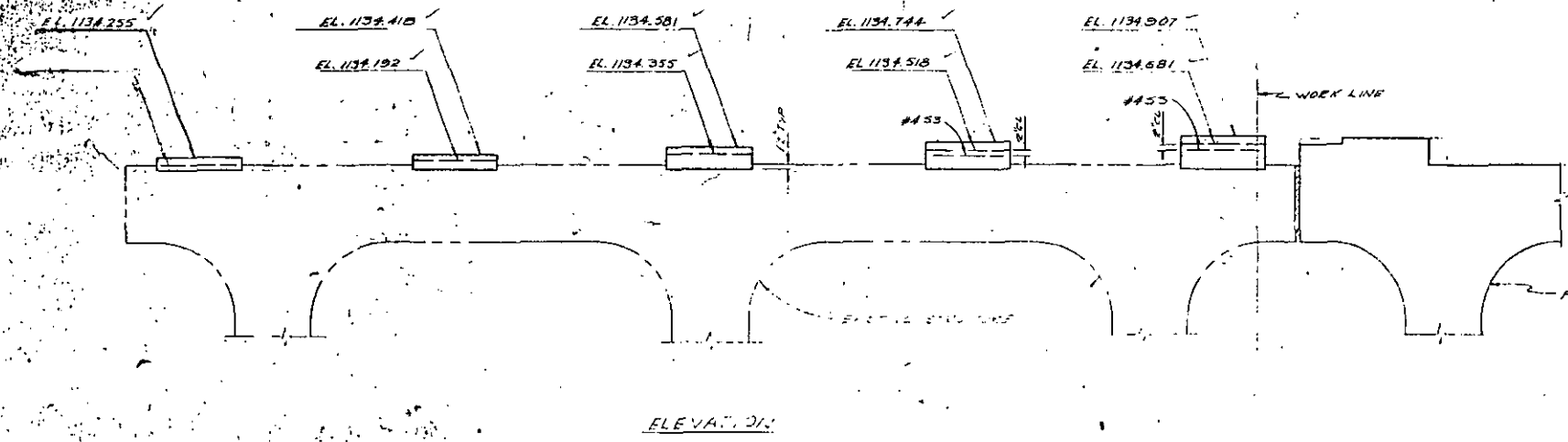
STATE OF NORTH CAROLINA STATE HIGHWAY COMMISSION RALEIGH					
END BENT NO. 1					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			2		
3			4		

DRAWN BY: C. A. WILSON DATE: 2-27-72  
 CHECKED BY: JOHN G. WILSON DATE: 3-23-72

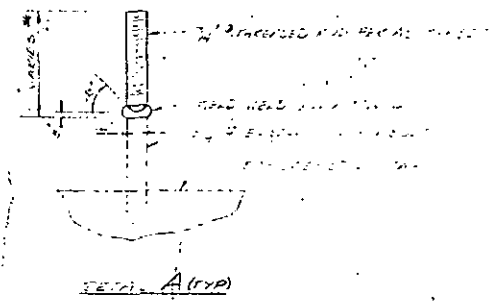
SEE PAGES 8-12 OF STR. PLAN RECORD BOOK #1.



NOTE  
 BUILT UP BRIDGE SEATS TO BE OF CLASS "A" CONCRETE AND REINFORCED WITH #4 STEEL. EXERCISE CARE SHOULD BE TAKEN NOT TO DAMAGE EXISTING REINFORCING STEEL WHILE CUTTING CONCRETE FOR BUILDUPS - 1/2" DIA. HAV. BE KEPT AT THE ENGINEER'S DISCRETION.



EXTEND EXISTING ANCHOR BOLTS AS REQUIRED TO PROJECT 5" ABOVE NEW BUILT UP BRIDGE SEATS.

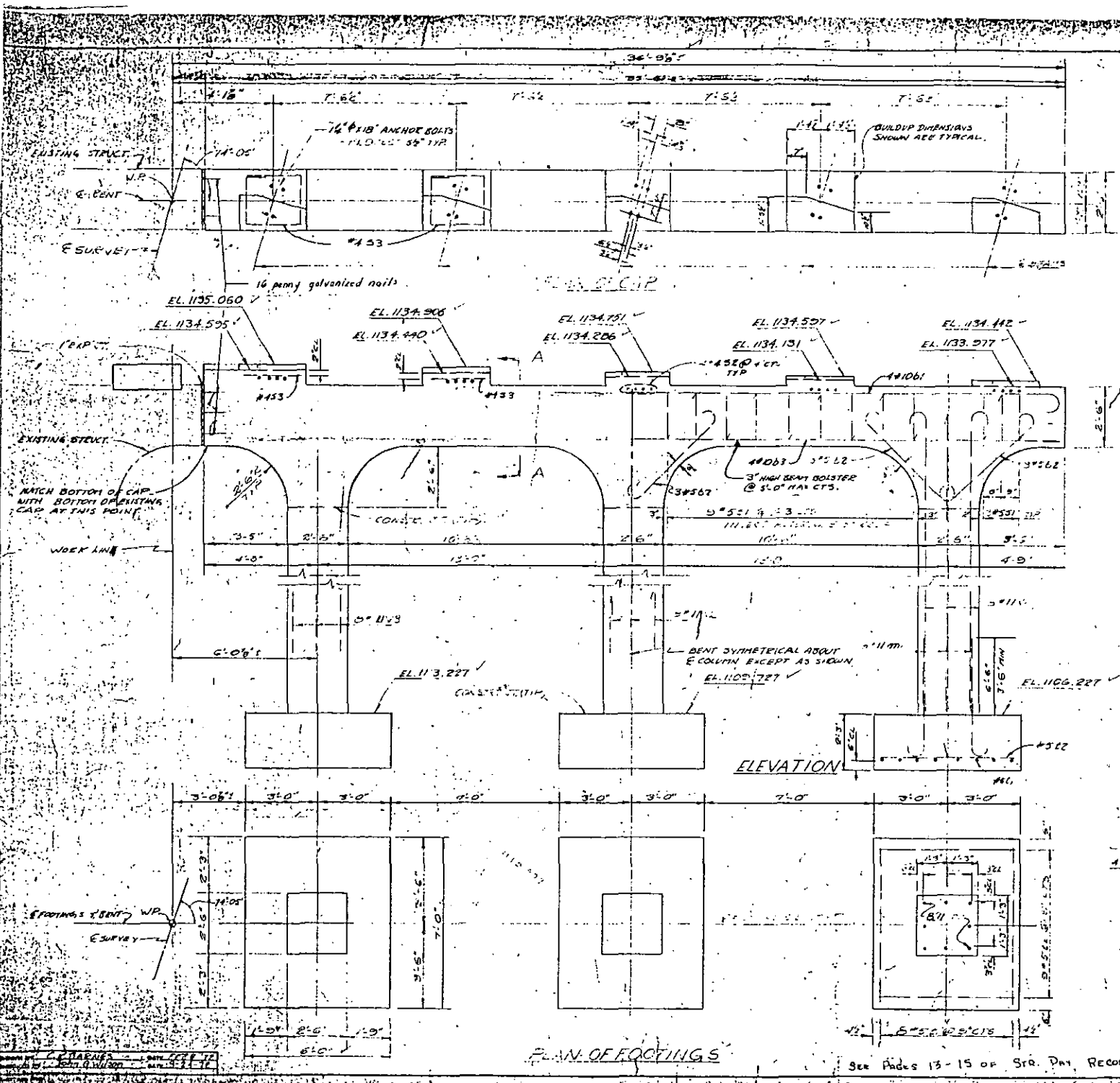


See PAGES 13-15 OF STR. PLAN RECORD BOOK # 1.

PROJECT No. 9712292  
 CLEVELAND COUNTY  
 STATION 16+29.16

STATE OF NORTH CAROLINA					
STATE HIGHWAY COMMISSION					
RALEIGH					
BENT NO. 1 - LT. SIDE					
MARCH 1972					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			2		
2			3		
3			4		

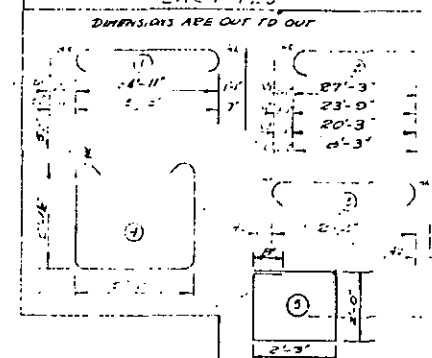




NOTES  
 CAP STEEL MAY BE SHIFTED TO CLEAR ANCHOR BOLTS.  
 HOOKS IN V-BARS MAY BE TYPED AS REQUIRED  
 FOR PLACING REINFORCEMENT.  
 COMPUTED FOUNDATION LOAD EQUALS 3 TONS PER 30 FT.

FED. ROAD DIST. NO.	STATE	PROJECT
1	N.C.	972202

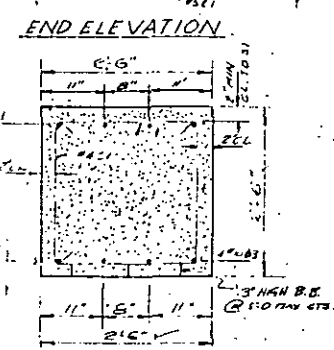
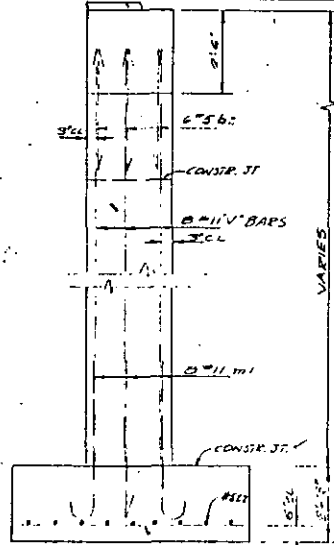
Sheet 70 of 89



BILL OF MATERIAL					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
1	#4		27'-3"	85	
2	#4		23'-0"	70	
3	#4		20'-3"	62	
4	#4	NO. 512	34'-11"	104	
5	#4		24'-10"	73	
6	#4		21'-4"	63	
7	#4		9'-4"	28	
8	#4		7'-4"	22	
9	#4		5'-2"	16	
10	#4		5'-6"	17	
11	#4		3'-6"	11	
12	#4		3'-6"	11	

REINFORCING STEEL - 6.00 IN CLASS "A" CONCRETE - 30,000 PSI UNCL. STR. ELEV. 71-9410

INCLUDING BUILDUPS ON EXISTING STRUCTURE



PROJECT No. 972202  
 LEVEL A-3 COUNTY  
 STATION 10+29.16-4-

STATE OF NORTH CAROLINA					
STATE HIGHWAY COMMISSION					
RALEIGH					
BENT NO. 1-RT SIDE					
MARCH 1972					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			2		
2			3		

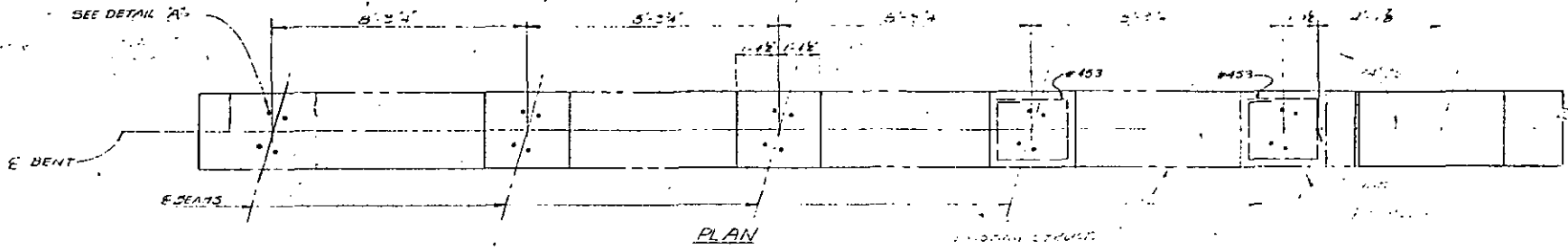
PLAN OF FOOTINGS

See Pages 13-15 of STR. DET. RECORD BOOK #1.

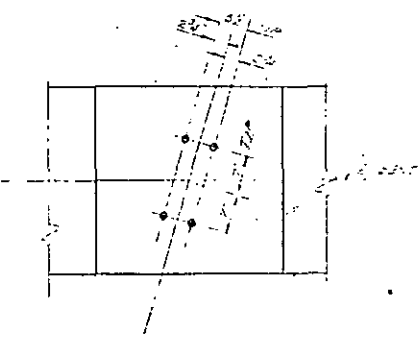
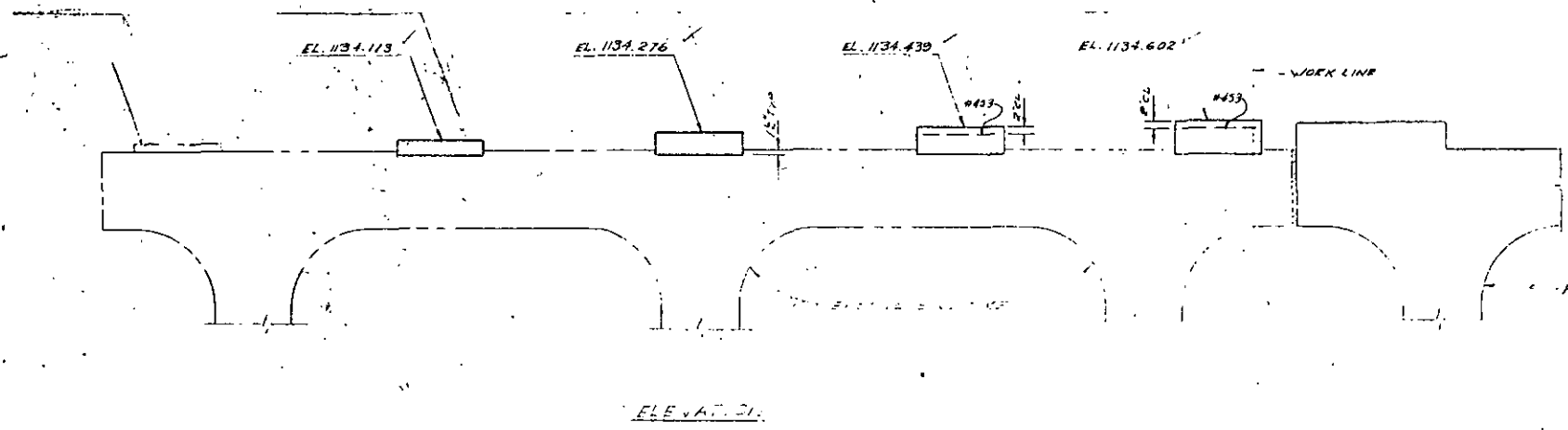
SECTION A-A

PUB. ROAD DIST. NO.	STATE	PROJECT NO.
0	N.C.	2-11702
P.A. PROJECT		

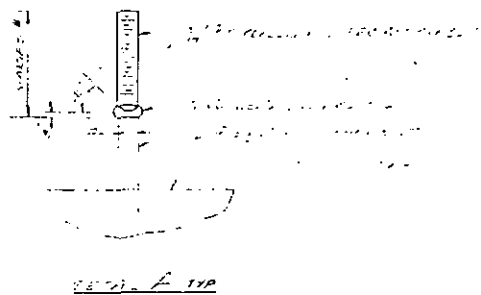
Sheet 71 of 84



REINFORCEMENT SEATS TO BE OF CLASS 'A' CONCRETE AND SET INTO EXISTING CONCRETE CAR. EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING REIN. STEEL WHILE CUTTING CONCRETE FOR BUILDUP. 12" DIMENSION MAY BE DELETED AT THE ENGINEER'S DISCRETION.



EXTEND EXISTING ANCHOR BOLTS AS REQUIRED TO PROJECT 32" ABOVE NEW BUILT UP BRIDGE SEATS.



PROJECT No. 0-112290

WILKINSON COUNTY

STATION: 16+39.6

STATE OF NORTH CAROLINA  
STATE HIGHWAY COMMISSION  
RALEIGH

BENT NO. 2-LT SIDE

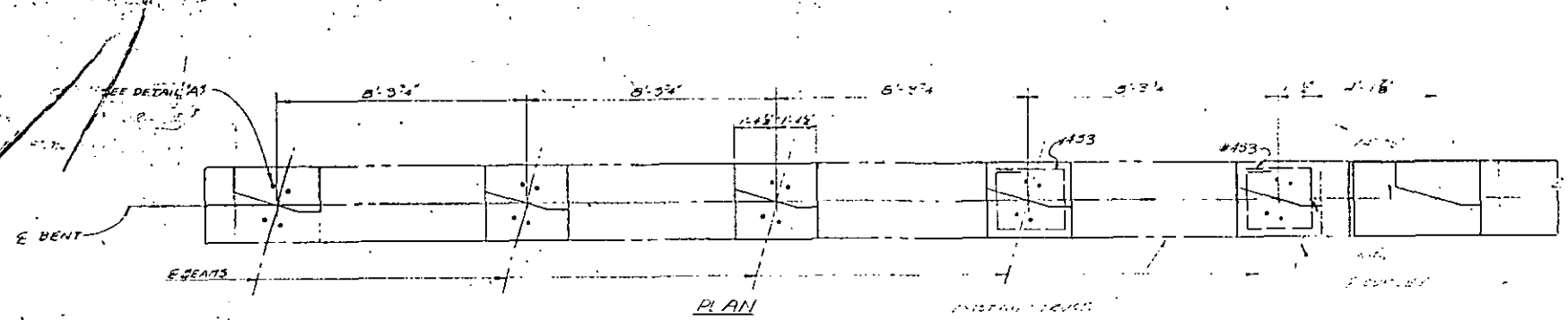
MARCH 1972

REVISIONS						BY
NO.	BY	DATE	NO.	BY	DATE	
1						0-2
2						0-2

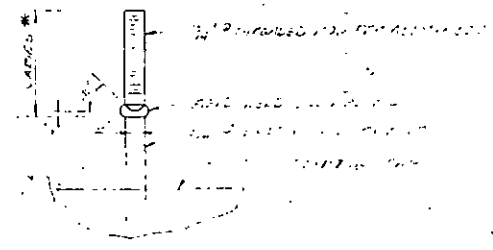
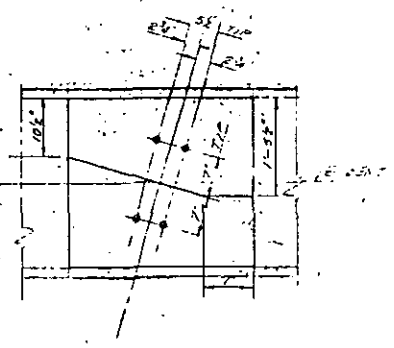
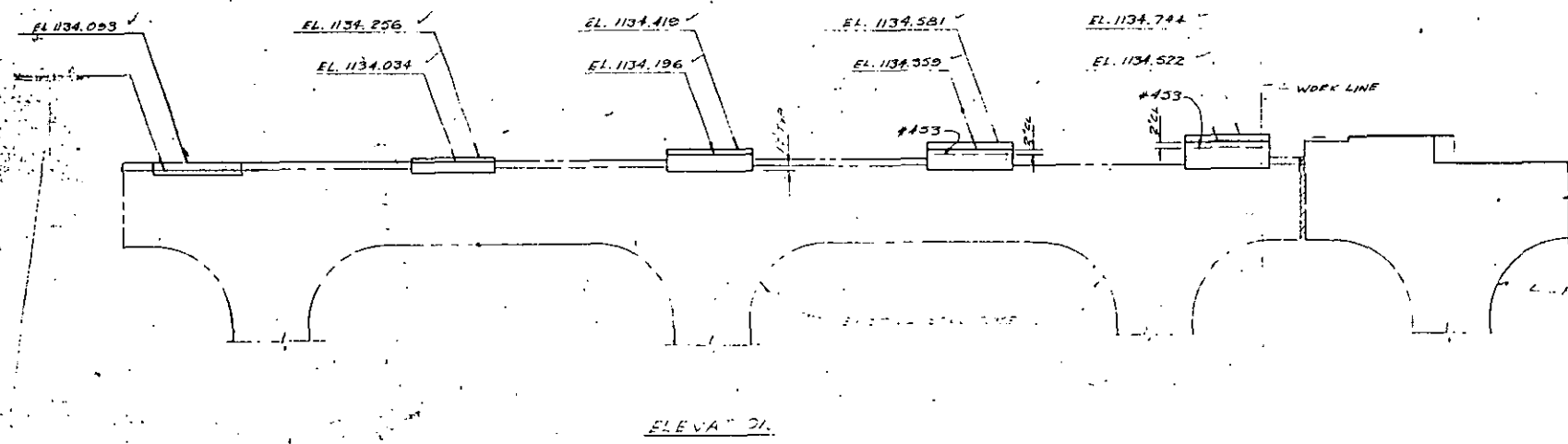
SEE PAGES 17-19 OF STR. PLAN RECORD BOOK #1.

DRAWN BY: C.C. RAINES DATE: FEB 1972  
CHECKED BY: John G. Wilson DATE: 3-24-72





NOTE  
 BUILT UP BRIDGE SEATS TO BE  
 OF CLASS 'A' CONCRETE  
 AND LAYED IN INTO EXISTING  
 CONCRETE CAR.  
 EXTREME CARE SHALL BE TAKEN  
 NOT TO DAMAGE EXISTING REIN-  
 STEEL WHILE CUTTING CONCRETE  
 FOR SEATLETS - 12" DIMENSION MAY  
 BE REDUCED AT THE ENGINEER'S  
 DISCRETION



\* EXTEND EXISTING ANCHOR BOLTS AS REQUIRED TO PROJECT 5" ABOVE NEW BUILT UP BRIDGE SEATS.

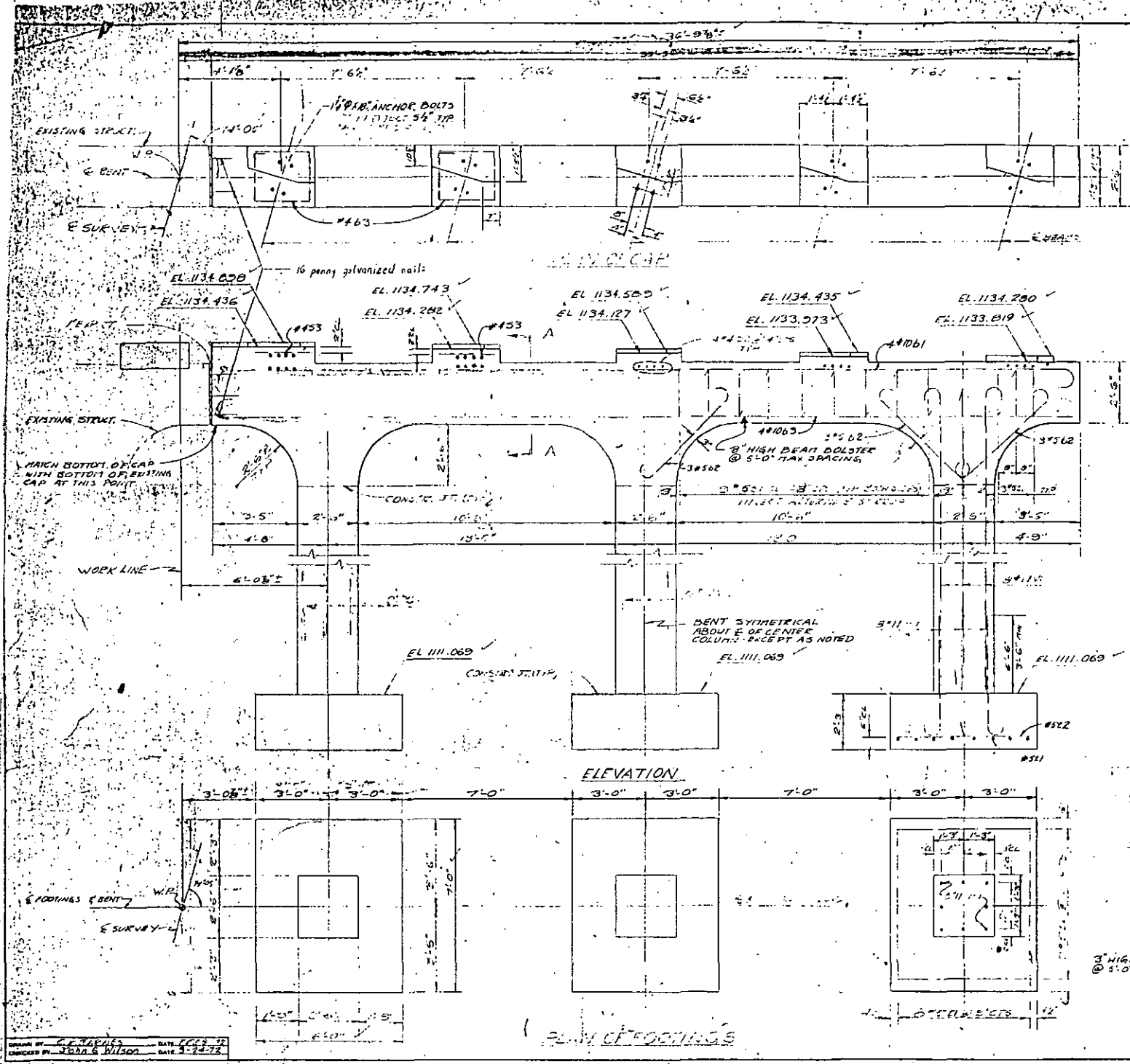
SEE PAGES 22-25 OF SR. DAY  
 RECORD BOOK #1.

PROJECT No. 971120  
 GLEBELAND COUNTY  
 STATION 11+38.16 - L -

STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 RALEIGH

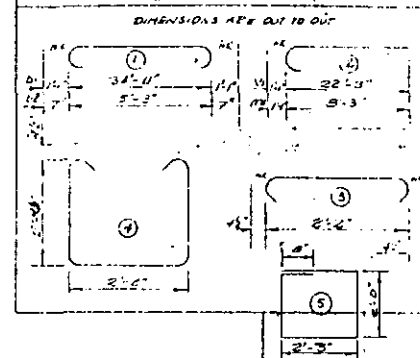
BENT NO. 3 - LT. SIDE

MARCH 1912					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			1		
2			2		
3			3		



NOTES  
 CAP STEEL MAY BE SHIFTED TO CLEAR ANCHOR BOLTS.  
 HOOPS ON V BARS MAY BE TURNED AS PROVIDED  
 FOR PLACING REINFORCEMENT  
 COMPUTED FOUNDATION LOAD EQUALS 3 TONS PER JOINT  
 BAR #105

PROJ. NO.	STATE	APP. NO.
1	N.C.	27222
S.A. PROJECT		
Sheet 74 of 84		

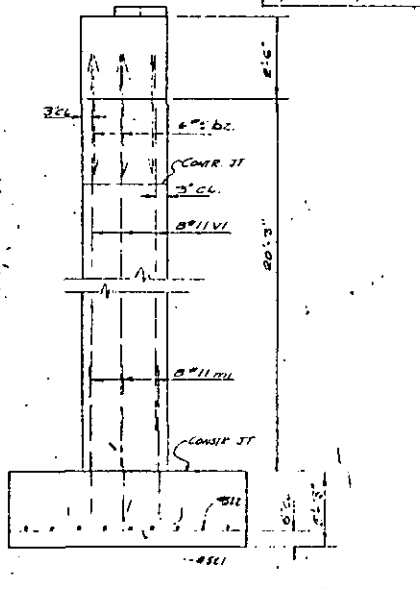


**BILL OF MATERIAL**

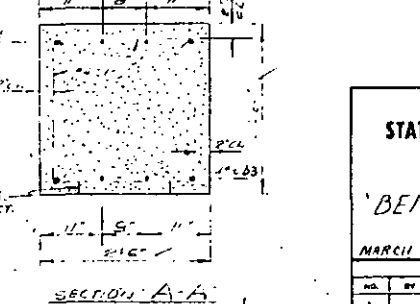
BENT NO 3

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
10	3/4"	1	3'-0"	5.8
11	1/2"	2	1'-0"	1.9
12	1/2"	2	1'-0"	1.9
13	1/2"	2	1'-0"	1.9
14	1/2"	2	1'-0"	1.9
15	1/2"	2	1'-0"	1.9
16	1/2"	2	1'-0"	1.9
17	1/2"	2	1'-0"	1.9
18	1/2"	2	1'-0"	1.9
19	1/2"	2	1'-0"	1.9
20	1/2"	2	1'-0"	1.9
21	1/2"	2	1'-0"	1.9
22	1/2"	2	1'-0"	1.9
23	1/2"	2	1'-0"	1.9
24	1/2"	2	1'-0"	1.9
25	1/2"	2	1'-0"	1.9
26	1/2"	2	1'-0"	1.9
27	1/2"	2	1'-0"	1.9
28	1/2"	2	1'-0"	1.9
29	1/2"	2	1'-0"	1.9
30	1/2"	2	1'-0"	1.9
31	1/2"	2	1'-0"	1.9
32	1/2"	2	1'-0"	1.9
33	1/2"	2	1'-0"	1.9
34	1/2"	2	1'-0"	1.9
35	1/2"	2	1'-0"	1.9
36	1/2"	2	1'-0"	1.9
37	1/2"	2	1'-0"	1.9
38	1/2"	2	1'-0"	1.9
39	1/2"	2	1'-0"	1.9
40	1/2"	2	1'-0"	1.9
41	1/2"	2	1'-0"	1.9
42	1/2"	2	1'-0"	1.9
43	1/2"	2	1'-0"	1.9
44	1/2"	2	1'-0"	1.9
45	1/2"	2	1'-0"	1.9
46	1/2"	2	1'-0"	1.9
47	1/2"	2	1'-0"	1.9
48	1/2"	2	1'-0"	1.9
49	1/2"	2	1'-0"	1.9
50	1/2"	2	1'-0"	1.9
51	1/2"	2	1'-0"	1.9
52	1/2"	2	1'-0"	1.9
53	1/2"	2	1'-0"	1.9
54	1/2"	2	1'-0"	1.9
55	1/2"	2	1'-0"	1.9
56	1/2"	2	1'-0"	1.9
57	1/2"	2	1'-0"	1.9
58	1/2"	2	1'-0"	1.9
59	1/2"	2	1'-0"	1.9
60	1/2"	2	1'-0"	1.9

REINFORCING STEEL: 5005 LB. 25%  
 CLASS "A" CONCRETE: 35%  
 UNCL. STR. EXCAV. 55%  
 \* INCLUDING BUILDING ON EXISTING STRUCTURE



SEE PAGES 22-25 OF STRG PLAN RECORD BOOK # 1.



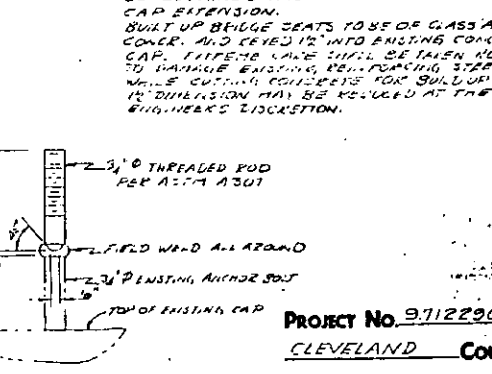
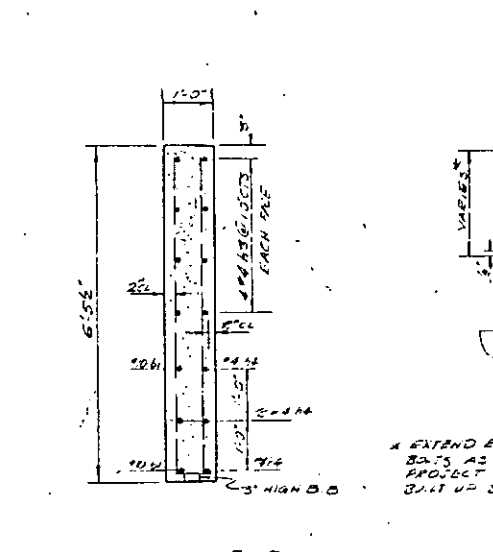
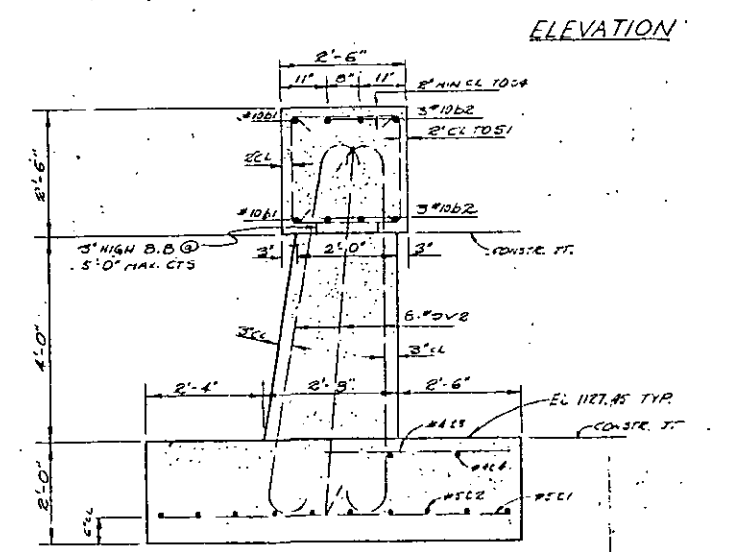
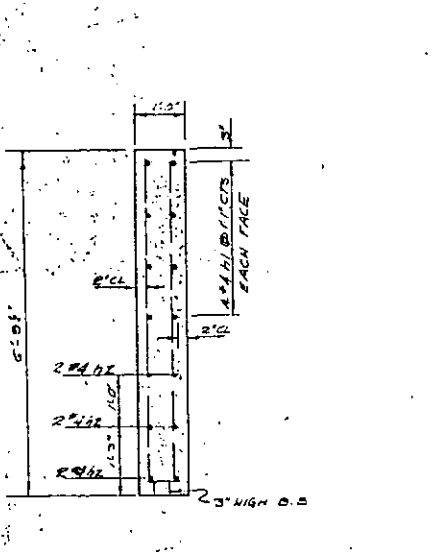
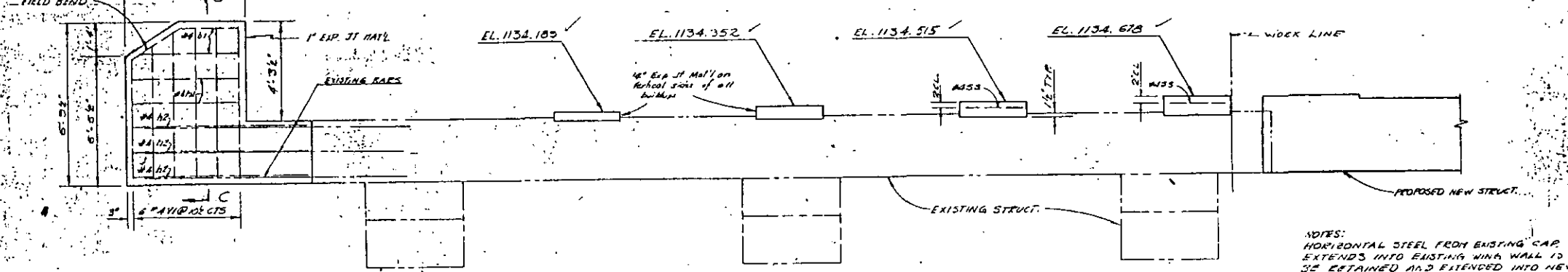
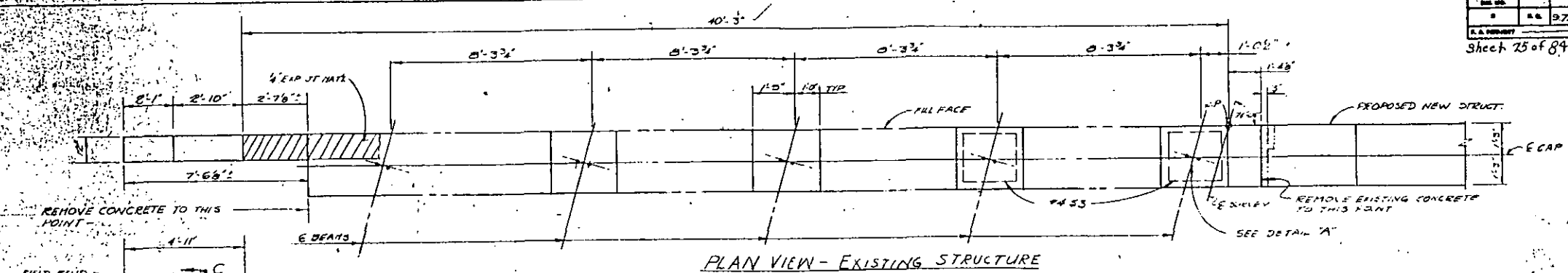
PROJECT NO. 51712002  
 CLEVELAND COUNTY  
 STATION: 10+9.16

STATE OF NORTH CAROLINA  
**STATE HIGHWAY COMMISSION**  
 HALEIGH  
 BENT NO 3 - RT SIDE

MARCH 1972

REVISIONS					SHEET NO.
NO.	BY	DATE	BY	DATE	
1					26
2					26

DRAWN BY: C. E. BARKER DATE: 6-23-72  
 CHECKED BY: JOHN WILSON DATE: 5-24-72



NOTES:  
 HORIZONTAL STEEL FROM EXISTING CAP MAY EXTEND INTO EXISTING WIND WALL TO BE OBTAINED AND EXTENDED INTO NEW CAP EXTENSION.  
 BUILT UP BRIDGE SEATS TO BE OF CLASS 'A' CONCR. AND LEVEL 12\"/>

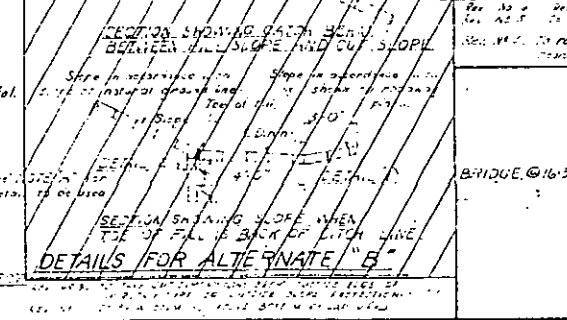
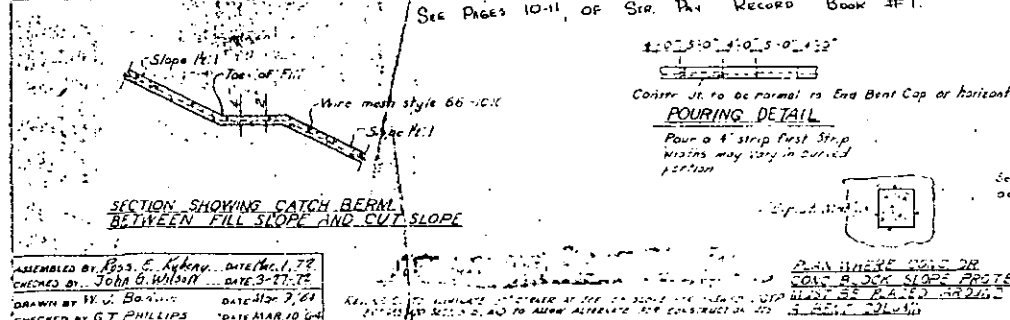
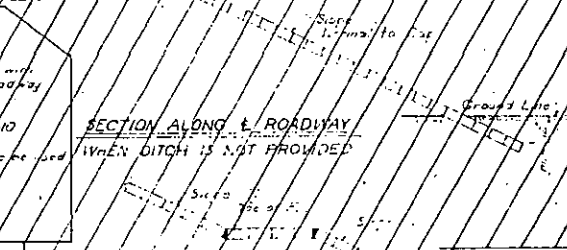
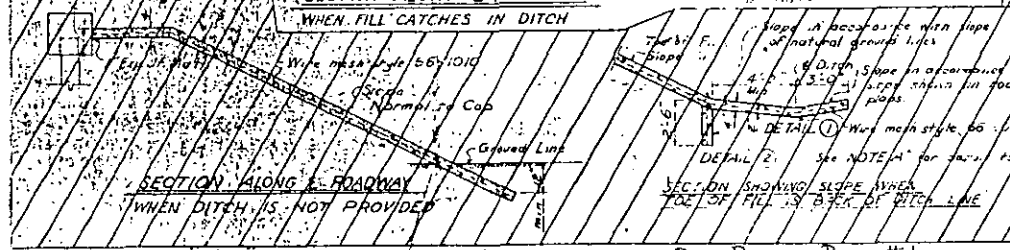
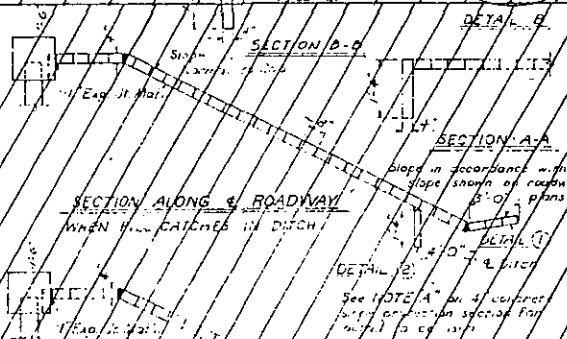
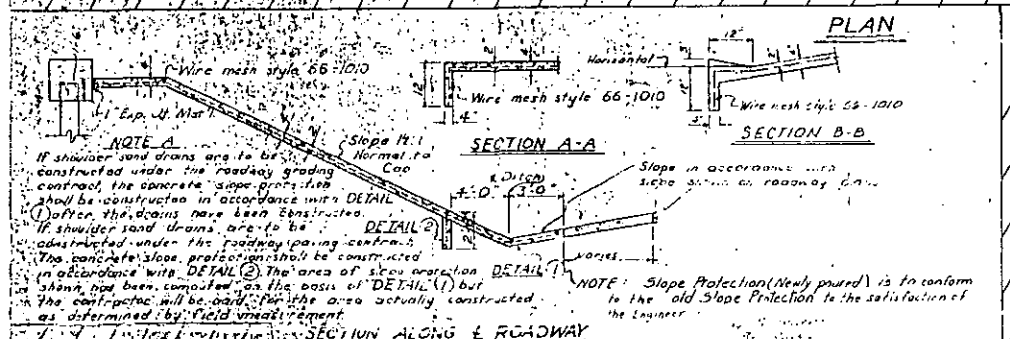
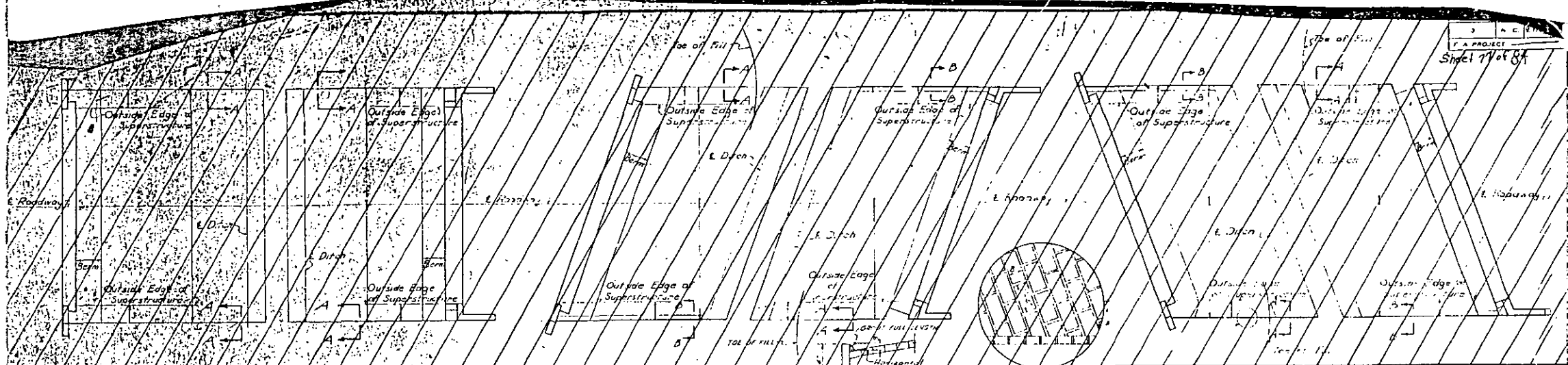
PROJECT No. 97122902  
 CLEVELAND COUNTY  
 STATION 16+39.16 -L-

STATE OF NORTH CAROLINA		COMMISSION	
RAILROAD			
END BENT NO. 2			
REVISIONS			
NO.	BY	DATE	DESCRIPTION
1			
2			

DRAWN BY: C. HARRIS DATE: 8-31-82  
 CHECKED BY: J. G. WILSON DATE: 9-1-82

SEE PAGES 26-28 OF STR. PLAN RECORD BOOK #1.





**NOTES:**  
 A 4" concrete slope protection paving shall be placed under the ends of the bridge ends of the protection shall be as shown in the details.  
 The slope shall be properly compacted and firmly compacted so that it conforms to the lines and grades shown. The finished surface shall be reasonably smooth and uniform and shall not vary more than 1/4 inch in any direction of travel along the slope. No surface irregularities, such as dips or depressions of the former, shall be objectionable.  
 Slope Protector shall be: 4" poured in place concrete paving as shown in details on the seal.  
 Concrete shall be Class B, the concrete's surface shall be finished with a conventional and finished.  
 The quantity to be paid for under this item shall be the amount of square yards of slope protection measures in place concrete and accepted, including the area of the two walls with 4" thickness or protection (For example B may vary for 100' long).  
 The quality measured as provided for above, shall be paid for with the contract unit price per square yard for mesh, excavation, materials, preparation of slope, and all materials, labor, equipment, tools and incidentals necessary to complete the work.

Intersecting with existing and concrete slopes shall be as shown in the details. The concrete shall be Class B, the concrete's surface shall be finished with a conventional and finished.  
 The concrete shall be Class B, the concrete's surface shall be finished with a conventional and finished.  
 The concrete shall be Class B, the concrete's surface shall be finished with a conventional and finished.

PROJECT NO. 97122902  
 CLEVELAND COUNTY  
 STATION: 16+39.16-L

ASSEMBLED BY: JESS. E. KILBURN... DATE: APR. 1, 1942  
 CHECKED BY: JOHN B. WILSON... DATE: 3-17-42

DRAWN BY: J. BO... DATE: APR. 2, 1942  
 CHECKED BY: G.T. PHILLIPS... DATE: MAR. 10, 1942

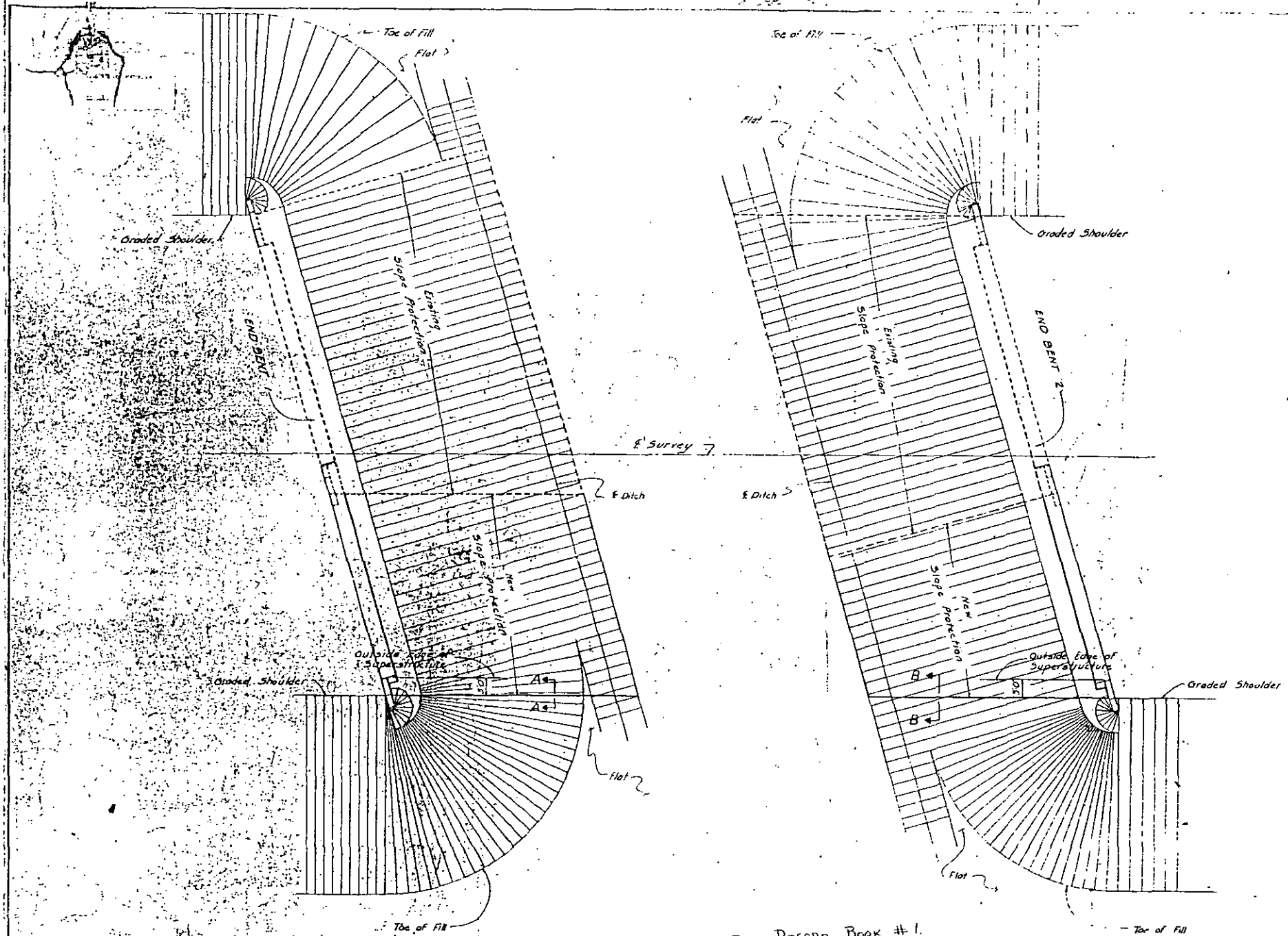
CONTRACT NO. 10-11 OF SER. PLAN RECORD BOOK #11  
 POURING DETAIL  
 Pour a 4" strip Best Strip  
 Weights may vary in curved portion

SECTION SHOWING SLOPE WHEN TOE OF FILL IS BACK OF DITCH LINE  
 DETAILS FOR ALTERNATE "B"

STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 STANDARD  
 SLOPE PROTECTION  
 PAVING DETAILS  
 March 1942



PROJ. NO.	STATE	PROJECT NO.
9.7122902	N.C.	9.7122902
P. A. WILSON		
Sheet 7B of 84		



SEE PAGES 10-11 OF STR. PAY RECORD BOOK # 1.

PROJECT No. 9.7122902  
 CLEVELAND COUNTY  
 STATION 16+39.16-L  
 SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 STATE HIGHWAY COMMISSION  
 RALEIGH

SLOPE PROTECTION  
 PAVING DETAIL

MARCH 1972

REVISIONS				DATE
NO.	BY	DATE	DESCRIPTION	
1				5-72
2				7-72

DRAWN BY: John G. Wilson DATE: 2-2-72  
 CHECKED BY: John G. Wilson DATE: 3-8-72