

Except as shown, Notes on Sheet 5, Supply Specifications, Standard Specifications for Road and Structures, North Carolina State Highway Commission, Raleigh, NC, dated Jan. 1, 1965.

Design Load: HS20-44 as specified in current A.A.S.H.O. Specifications.

Design Stresses: Reinforcing Steel: $f_s = 20,000$ psi
Structural Steel: $f_s = 30,000$ psi
Concrete: $f_c = 9000$ psi f_c (dead)
100 psi, f_c (other) = 1000 psi, f_c (other)
90 psi $f_c = 10$.

Surface Finish: Exposed concrete surfaces to be given a surface finish in accordance with the Specifications.

Piling: Piling to be standard LBS-55 Steel Piles, Standard Computer pile load = 86 tons each. Piles shall be driven to a minimum bearing capacity of 86 tons each. It shall be the contractor's responsibility for determining the length of pile required. See Special Provisions.

Name Plates: For details, see sheet entitled "Standard Name Plates."

Excavation: Excavation for shaded area in front of End Bent 1 to be made by structure Contractor. See Special Provisions, Unclassified Structure, Excavation for Bent 1. It shall be measured from edge of roadway cut.

Work: Work is not to be started on this bridge until after roadway section has been excavated by roadway contractor.

Slope Protection: For details, see sheet entitled "Standard Slope Protection Paving Details."

Electrical Notes: See sheet 34B.

Bench Mark No. 10!
R.R. Right-of-Way
to W. side of N.E. Ferry
in 866.22

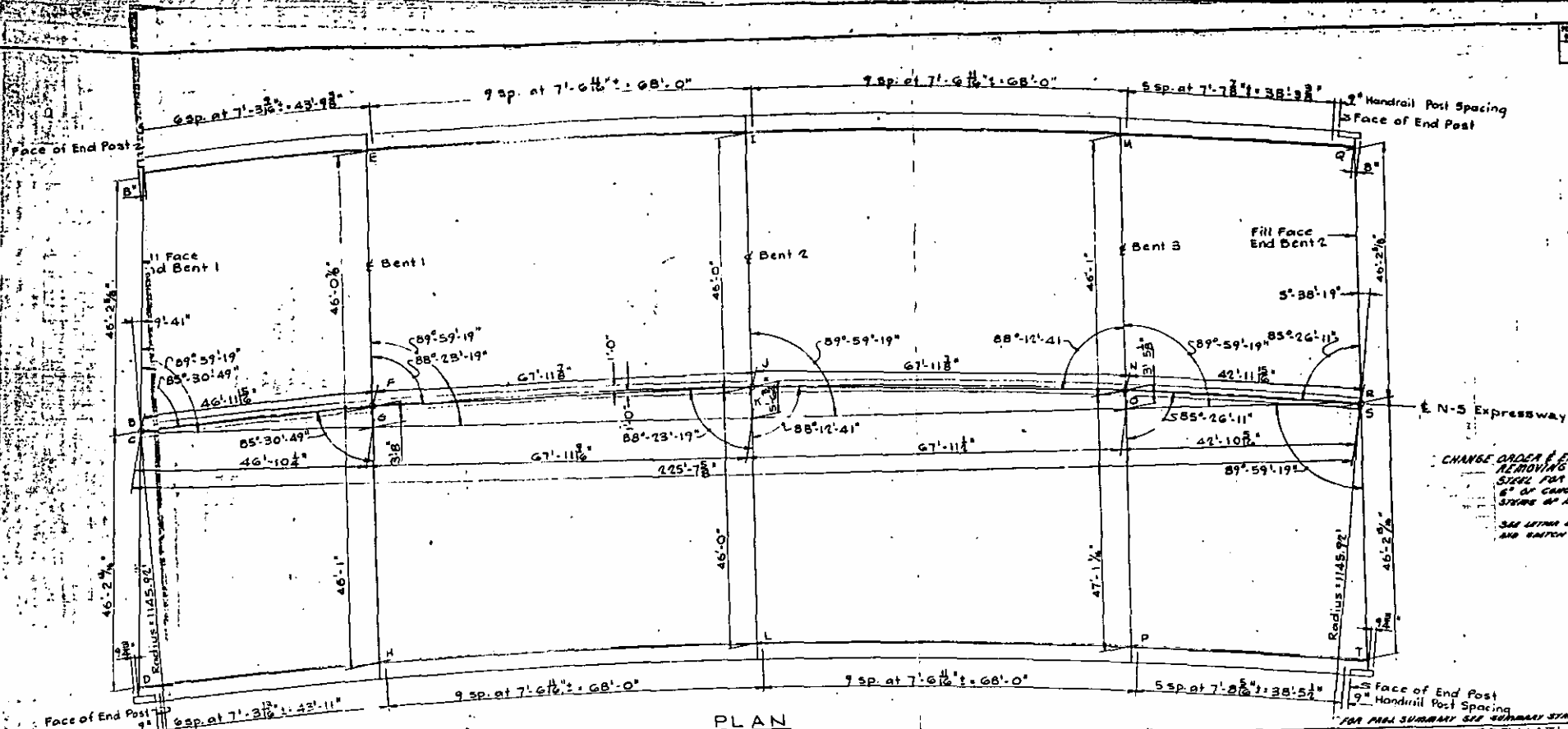
B.M. Elev. B.T.T. 50 .. .
Bolt Head in S.E. Hand NW
CORN PTY. BRIDGE

I HEREBY CERTIFY THAT THIS
STRUCTURE WAS BUILT ACCORDING
TO PLANS EXCEPT AS NOTED HEREIN
W.E. Hale
RESIDENT ENGINEER

FORSYTH #78

PERSON	DATE	DESCRIPTION	BY
STATE OF NORTH CAROLINA			
STATE HIGHWAY COMMISSION			
BALANCE			
WINSTON-SALEM N-S EXPRESSWAY			
OVER			
CORPORATION PARKWAY			
STA: 86154.38 N+Exp. Forsyth Co			
SMITH, POLLITTE & ASSOCIATES, Inc.			
CONSULTING ENGINEERS			
WINSTON-SALEM, N.C.			
BOOK	COLUMBIA, N.C.	DATE	DATE
108	108	108	108

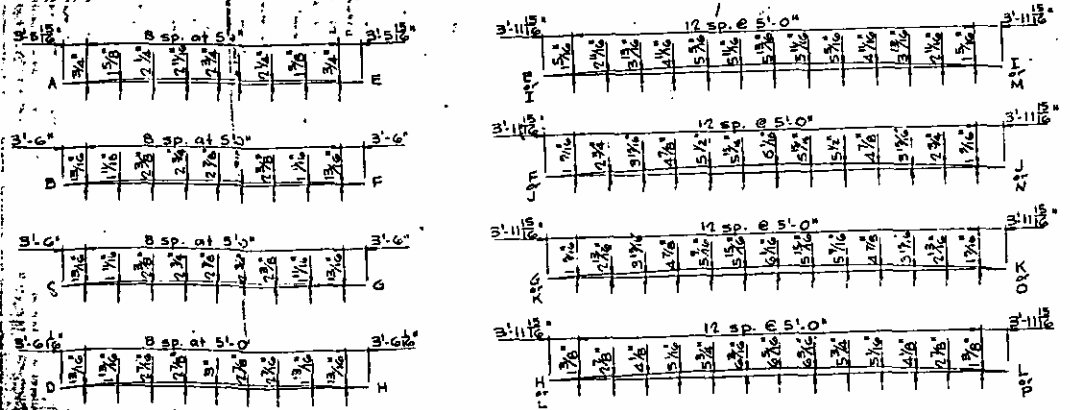
REV.	DATE	BY	CHKD.	DESCRIPTION
1	8-17-90	W.C.		LI-37-113



PLAN

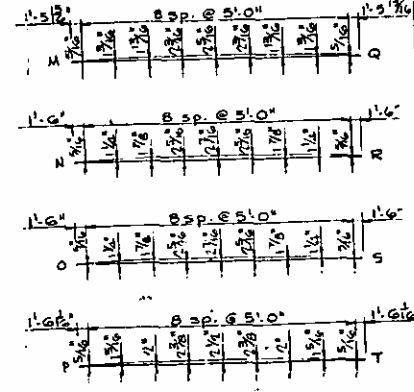
CHANGE ORDER & EXTRA WORK ORDER NO. 20
 REMOVING AND REPLACING FORMS AND REINFORCING
 STEEL FOR CAP BENT NO. 2, AND REMOVING APPROX.
 6" OF CURB TO COMPARE TO ATTACHED SECTION AND
 SPACING AT BENT NO. 1 & 2.
 SEE LISTING DRAWING NO. 125, P. 404, M. 173, PAGE 70,
 AND SECTION ATTACHED TO DRAWING NO. 334

CURB OFFSETS



SPAN A

SPAN B or C



SPAN D

ESTIMATE OF QUANTITIES									
Sheet	Sheet	Lineal	Concrete	Concrete	Rein.	Struct.	Str. Excav.	Steel Piles	2-Bar
		ft.	Class A	Class B	Steel	bolts	ft.	ft.	ft.
General Plan	533								
Layout	534								
Pile Record	535								
Borings	536								
End Bents 1 & 2	537								
Bents 1, 2 & 3	538								
Forming Plan	539								
Deck	540								
Constr. Elev.	541								
2-Bar Metal Rail	542								
Totals		51	645.4	327.2	227.2	204	540.500	340	74

* See Special Provisions for method of curing Bridge Deck and masonry and applying the Linseed Oil Solution.

REVISION	DATE	DESCRIPTION

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 Raleigh

LAYOUT

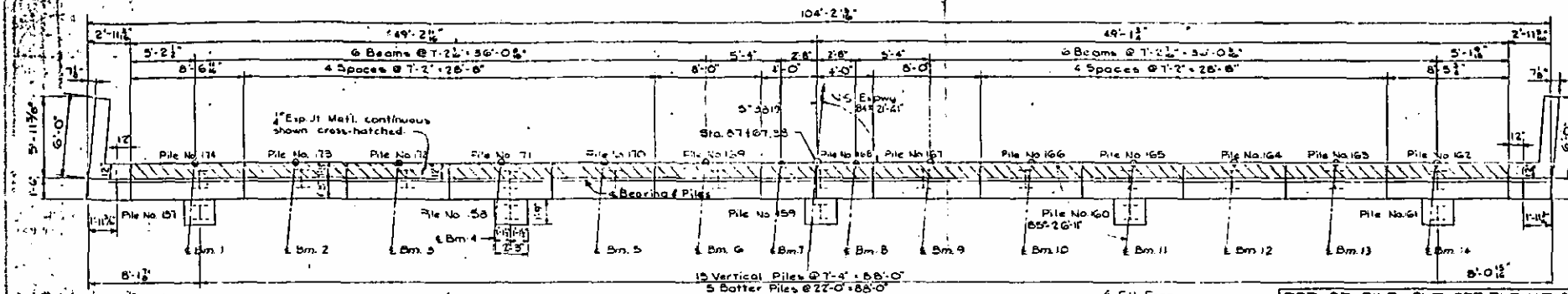
STA: 66+56.38 N-5 Exp., Forsyth Co.

SMITH, POLLITTE & ASSOCIATES, INC.
 CONSULTING ENGINEERS

COLUMBIA, S.C.

Rev. 1 - To change Reinforcing Steel and Concrete Quantities by SM

NO.	DATE	BY	CHKD.	APP'D.	REVISION
1	8-17-49	W.C.			



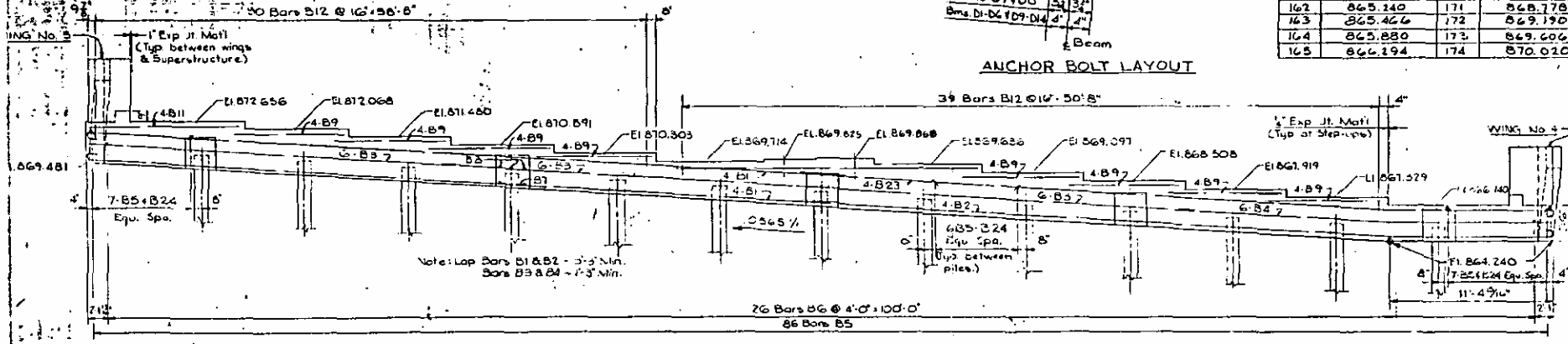
PLAN
Scale: 1"=10'

TOP OF PILE CUT-OFF ELEVATIONS

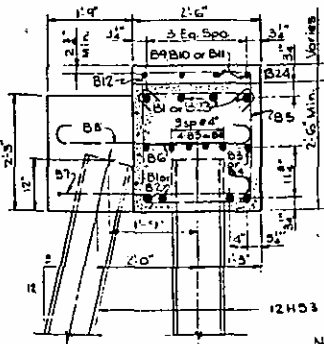
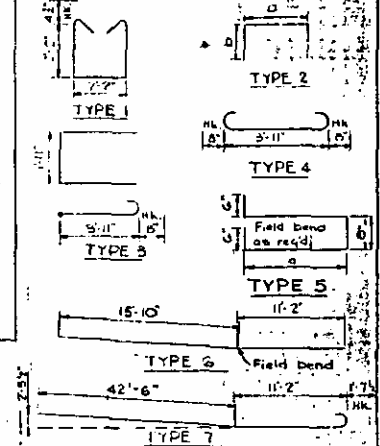
PILE No.	ELEVATION	PILE No.	ELEVATION
157	870.070	166	866.708
158	868.778	167	867.122
159	867.536	168	867.536
160	866.294	169	867.950
161	865.240	170	868.364
162	865.140	171	868.778
163	865.466	172	869.190
164	865.880	173	869.606
165	866.194	174	870.020

BILL OF REINFORCEMENT

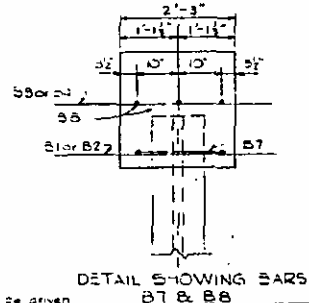
BAR No.	SIZE	TYPE	LENGTH	QTY	REMARKS
B1	8	10	57	4	1932
B2	4	10	57	4	96
B3	18	4	57	0	521
B4	6	4	27	0	102
B5	86	4	1	7	412
B6	26	4	57	2	1
B7	5	6	5	11	1
B8	15	6	4	5	118
B9	52	4	57	8	174
B10	4	4	57	25	0
B11	4	4	57	11	2
B12	69	4	2	6	2
B13	2	4	5	6	2
B14	2	4	5	6	2
B15	2	4	5	10	6
B16	4	4	5	13	0
B17	10	4	5	5	10
B18	16	4	57	6	2
B19	4	4	57	5	6
B20	4	4	57	4	2
B21	4	4	57	2	9
B22	4	4	57	1	5
B23	4	10	7	25	4
B24	86	4	9	2	11



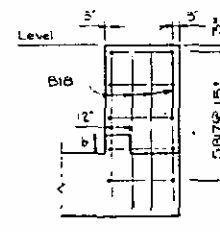
ELEVATION
Scale: 1"=10'



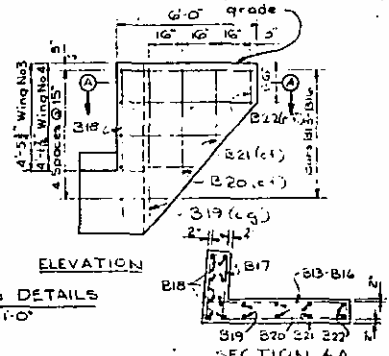
TYPICAL SECTION
Scale: 1"=10'



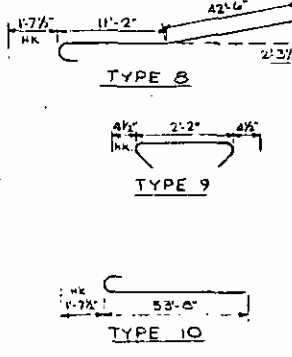
DETAIL SHOWING BARS
B7 & B8



FRONT



ELEVATION



TYPICAL WING DETAILS
Scale: 1"=10'

BILL OF MATERIAL

ITEM	UNIT	END BENT
Concrete, Class A	CY	54.79
Reinforcing Steel	LBS	5,626
12 H 53 Steel Piles - 18 Req'd	LF	600

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

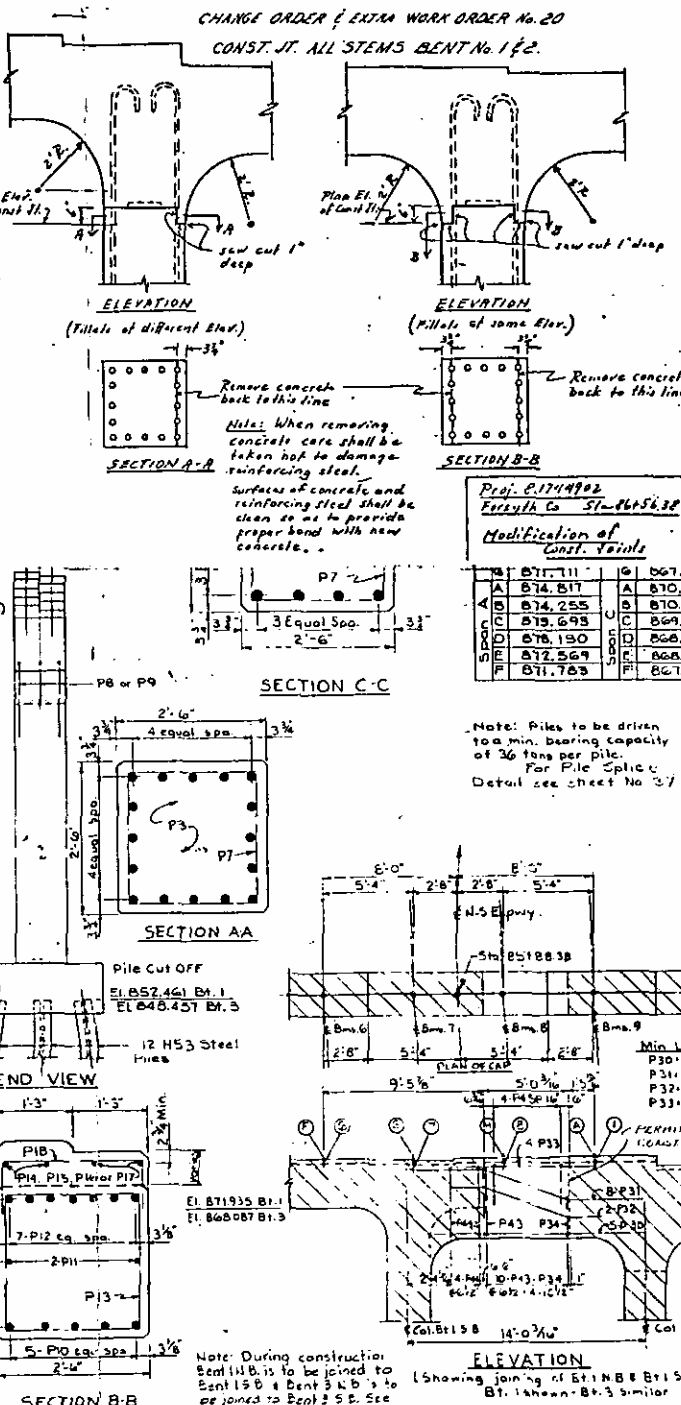
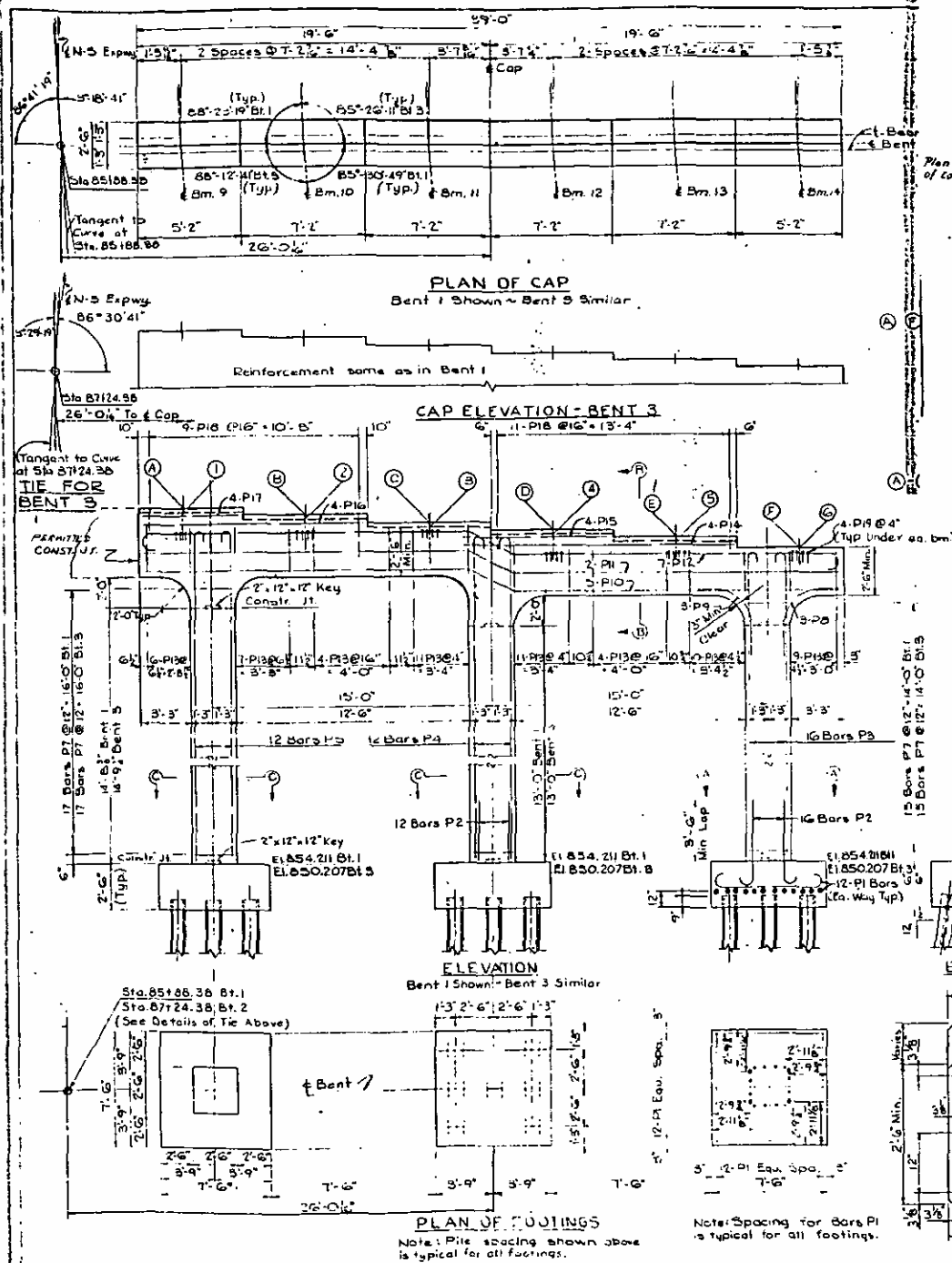
END BENT 2

STATION: 26156.58 N.C. Exp. for 1948 Co.

SMITH, POLLITTE & ASSOCIATES, INC.
CONSULTING ENGINEERS

COLUMBIA, S.C.

DES. P.C. DWG. G.F. CHK. E.H.P. DATE 1/18/49 NO. 556



June 16, 1970

Project: C-1744902 - Forsyth County
Const. JT. All Stems Bent No. 1 & 2

Subject: Request for Construction Change and Supplemental Estimate for Construction of Station 86+00 to Station 86+50, Northbound, and Station 86+00 to Station 86+50, Southbound.

Project: C-1744902
Forsyth Co. Sta. 86+50.38
Modification of Const. Details

ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	Concrete, Class A	10.0	CU YD	40.00	400.00
2	Reinforcing Steel	10.0	LB	10.00	1000.00
3	Unclassified Structure Examination	1.0	HR	60.00	60.00
4	12-HS3 Steel Piles - 21' Long	1.0	EA	1000.00	1000.00
5	UNCLASS. STRUCT. EXCAV. NORTH & SOUTH A&C	1.0	HR	100.00	100.00
6	12-HS3 STL. PILES - 25' REQ'D AT 3' SPACING	1.0	EA	1000.00	1000.00

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

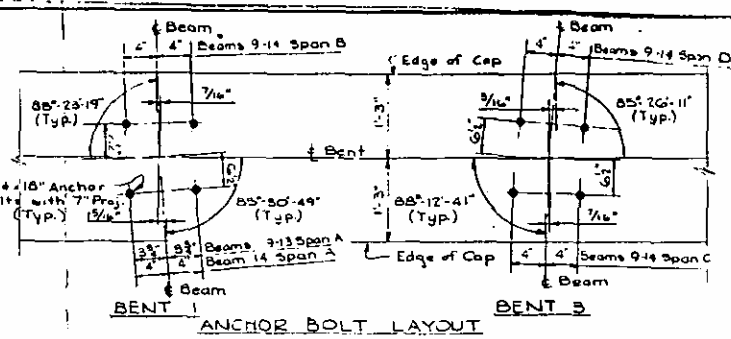
BENTS 1 & 3 NORTHBOUND

STATION 86+50.38 N.S. Expwy. Forsyth Co.

SMITH, POLLITTE & ASSOCIATES INC.
CONSULTING ENGINEERS

CC: DWB: 3

PC: 1000.00, FF: 1000.00, LDH: 1000.00



FED ROAD ACR NO	STATE	STATE PROJECT NO.	FED AID PROJECT NO.	SHEET NO	TOTAL SHEETS
3	N. C.	B-174-902	U-37-1(25)	323	323

BILL OF REINFORCEMENT

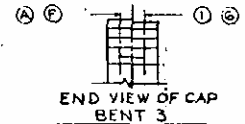
BAR	NUMBER		SIZE	TYPE	LENGTH		a		b		WEIGHT	
	Sent 1	Sent 35			Ins	Fl	Ins	Fl	Ins	Sent 1	Sent 35	
P1	72	72	6	5	0	4	7	0	0	8	901	901
P2	40	40	11	1	6	10	5	0	1	9	1452	1452
P3	16	16	11	1	16	10	17	0	1	9	1601	1601
P4	12	12	11	1	19	10	18	0	1	9	1264	1264
P5	12	12	11	1	21	4	19	6	1	9	1360	1360
P6			NOT USED									
P7	47	47	4	2	9	0	2	1	2	1	285	285
P8	5	5	5	3	6	1	1	2	2	0	42	42
P9	12	12	5	3	7	1	2	0	2	0	95	95
P10	5	5	10	1	39	2					843	843
P11	2	2	5	7	99	2					82	82
P12	7	7	10	5	42	5					1278	1278
P13	62	62	4	2	9	4	2	2	2	2	587	587
P14	4	4	4	St.	15	7					42	42
P15	4	4	4	St.	8	5					22	22
P16	4	4	4	St.	12	0					32	32
P17	4	4	4	St.	4	10					13	13
P18	20	20	4	4	6	8	2	2	2	3	89	89
P19	24	24	4	4	2	10	2	2	2	4	45	45
P20	P29	Not Used										
P30	5	5	10	St.	13	0					301	301
P31	8	8	10	8	14	5					456	456
P32	2	2	5	St.	9	5	(Field bend)				19	19
P33	4	4	4	St.	8	0					21	21
P34												
P35	1ca.	1ca.	4	2	9	4	2	2	2	2	73	73
P44	4	4	4	2	12	10	2	3	11	6	34	34
P45	4	4	4	4	7	2	2	2	2	19	19	19
Notes	P13	P43	Notes	Notes	Notes							

BRIDGE SEAT ELEVATIONS

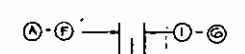
BENT 1				BENT 3			
Span A	1	874.596	Span D	1	870.651		
	2	873.973		2	870.063		
	3	873.411		3	869.478		
	4	872.849		4	868.892		
	5	872.286		5	868.305		
	6	871.711		6	867.718		
Span B	1	874.517	Span E	1	870.654		
	2	874.235		2	870.067		
	3	873.693		3	869.481		
	4	873.130		4	868.895		
	5	872.569		5	868.309		
	6	871.723		6	867.723		

Note: Piles to be driven
to a min. bearing capacity
of 36 tons per pile.
For Pile Splice
Detail see sheet No 37

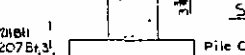
SECTION C-C



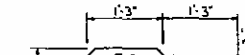
SECTION A-A



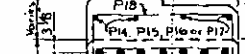
SECTION A-A



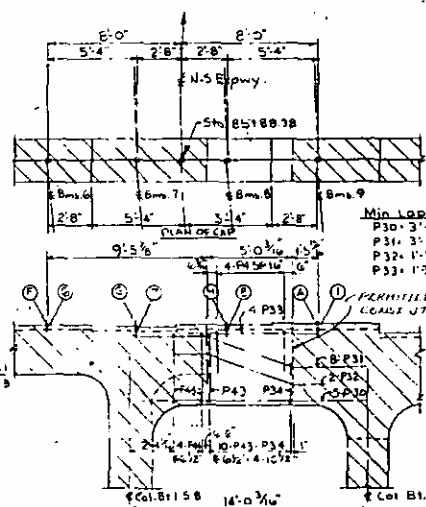
END VIEW



SECTION B-E



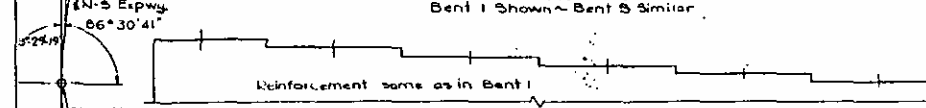
ELEVATION



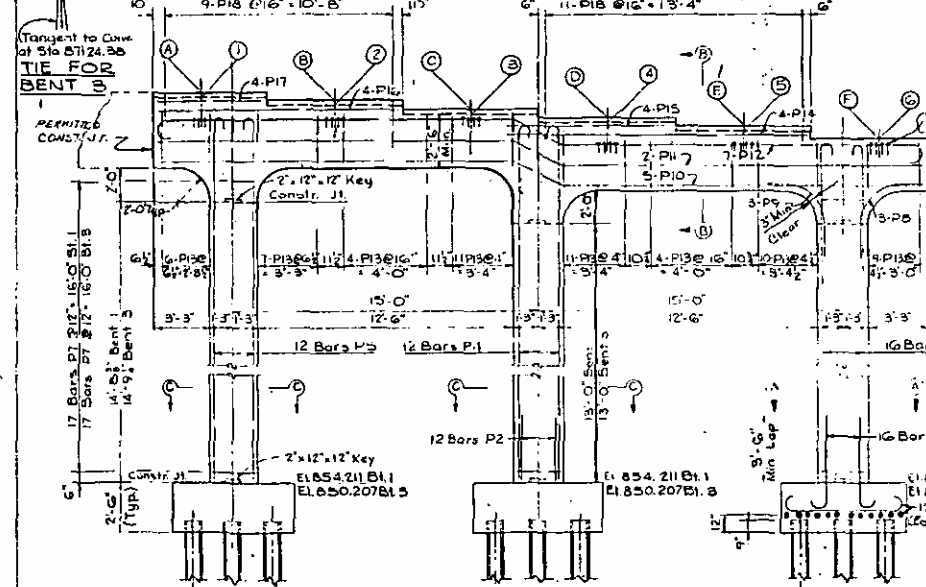
ELEVATION

Note: During construction Bent 14B is to be joined to Bent 15B & Bent 34B is to be joined to Bent 55B. See details: this sheet, "BENTS 14B SOUTHBOUND" & "FRAMING PLAN".

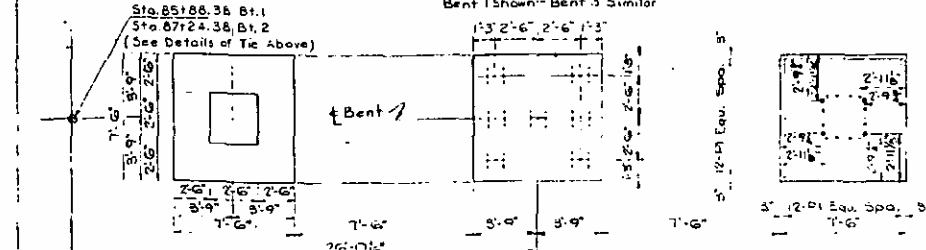
PLAN OF CAP



CAP ELEVATION - BENT 3



ELEVATION



PLAN OF COOLINGS

Note: Pile spacing shown above is typical for all footings.

Note: Spacing for Bars Pl is typical for all footings.

BILL OF MATERIAL

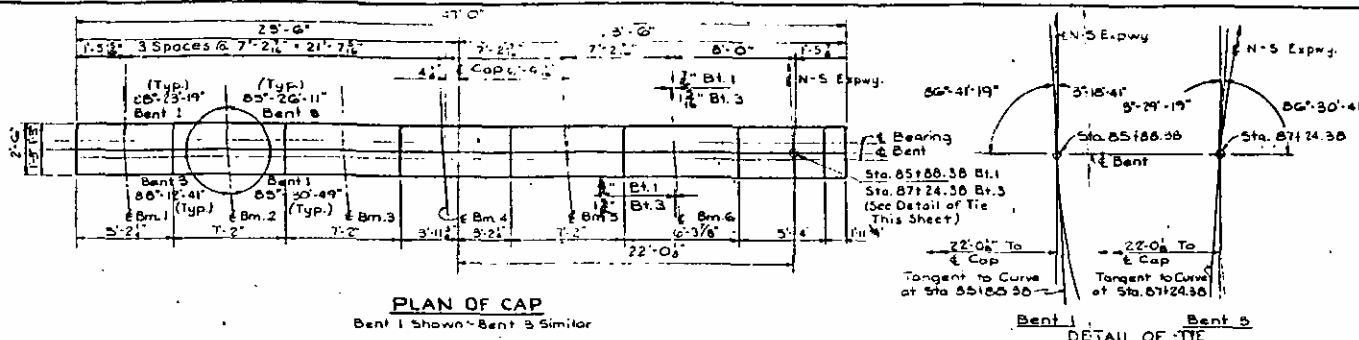
Item	Unit	Bent 1	Bent 3
Concrete, Class A	CUY	40.37	40.1
Reinforcing Steel	Lbs	10,750	10,750
Unclassified Structure Excavation	CY	60	60
12 N53 Steel Piles - 21' Long	L.F.	100	100
UNCLASS. STRUCT. EXCAV. NORTH & SOUTH BAY	CY	100	100
12 N53 STEEL PILES - 45' Long N & S BAY	L.F.	100	100

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

BENTS 1 & 3 NORTHBOUND

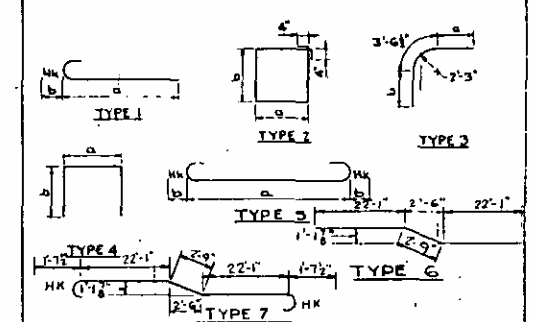
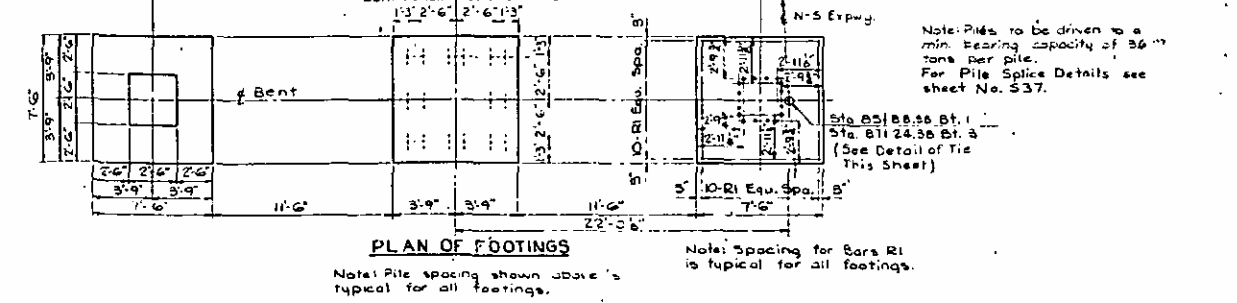
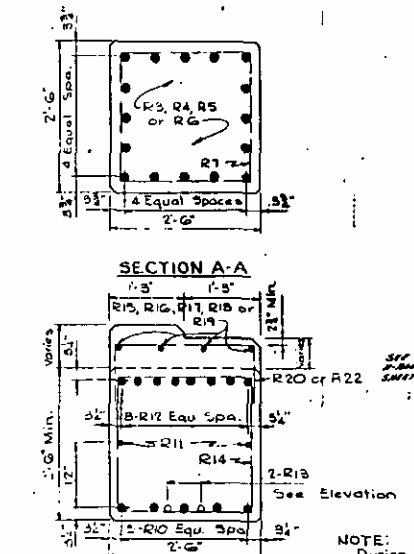
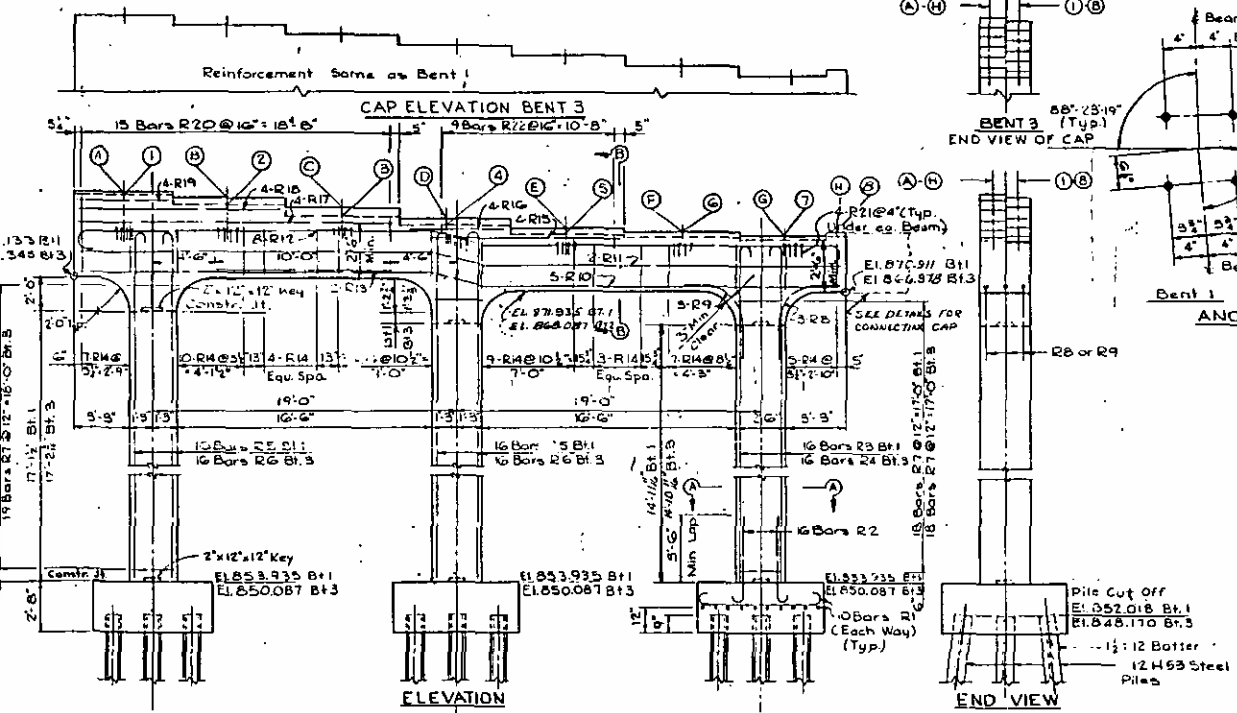
STATION 86: 56.38 N-S Expwy. Forsyth

SMITH, POLLITTE & ASSOCIATES INC.
CONSULTING ENGINEERS
CHICAGO, ILL. 60604
TELEPHONE 312-321-1100
FAX 312-321-1101



BENT 1		BENT 3	
1	877.910	1	879.801
2	876.760	2	879.016
3	876.196	3	872.430
4	875.685	4	871.845
5	875.069	5	871.259
6	874.506	6	870.678
7	874.435	7	870.784
8	874.498	8	870.820
9	874.476	9	873.589
10	874.476	10	873.018
11	875.913	11	872.432
12	875.913	12	871.847
13	875.350	13	871.241
14	874.787	14	870.675
15	874.691	15	870.587
16	874.754	16	870.433

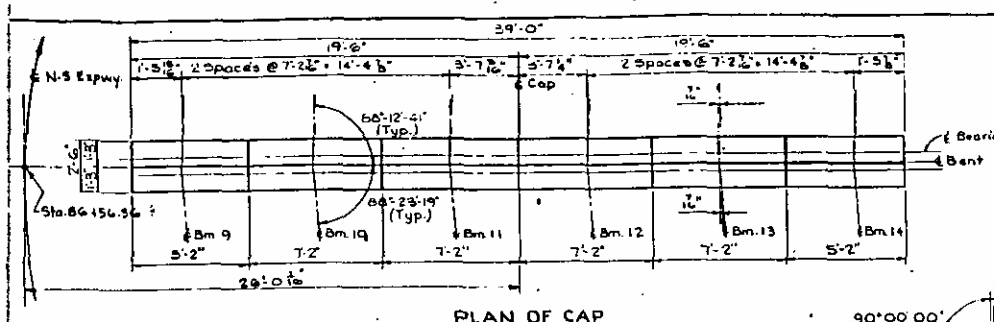
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
21	60	60	1	6	751
22	48	48	1	7	1785
23	16	16	1	10	1856
24	16	16	1	10	1856
25	32	32	1	10	3482
26	32	32	1	10	3482
27	55	55	1	2	331
28	6	6	1	2	42
29	12	12	1	2	95
30	5	5	1	2	1009
31	2	2	1	2	98
32	8	8	1	2	1727
33	2	2	1	2	55
34	54	54	1	2	526
35	4	4	1	2	32
36	4	4	1	2	13
37	4	4	1	2	51
38	4	4	1	2	52
39	4	4	1	2	13
40	15	15	1	2	76
41	22	22	1	2	61
42	9	9	1	2	40



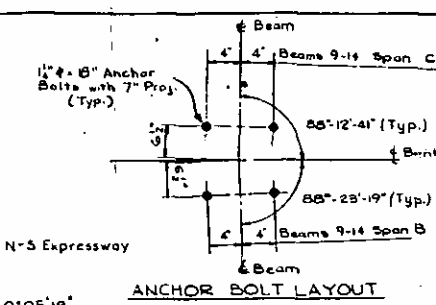
Item	Unit	Bent 1	Bent 3
Concrete, Class A	CY	4.11	4.37
Reinforcing Steel	LB	12,473	2,475
Unclassified Structure Excavation	CU	65	65
12-14.5 Steel Piles - 24' Long	LF	222	400

NOTE:
During construction, Bent 1 S.B. is to be joined to Bent 11 G. Bent 3 S.B. is to be joined to Bent 3 N.B. See details in this sheet, BENTS 1 & 3 NORTHBOUND & 1 & 3 SOUTHBOUND & 1 & 3 FRAMING PLAN.

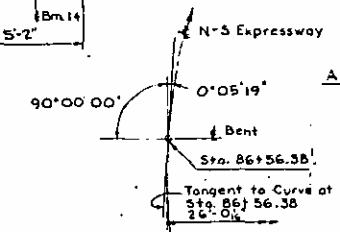
REVISION	DATE	DESCRIPTION
STATE OF NORTH CAROLINA STATE HIGHWAY COMMISSION BALTIMORE		
BENTS 1 & 3 SOUTHBOUND		
STATION 60+56.35 N.S. Expwy. Forgoth. &		
SMITH POLLITTE & ASSOCIATES INC. CONSULTING ENGINEERS		
COLUMBIA, S.C. WINSTON-SALEM, N.C.		
S.D. P.C. 100% G.P.P. 100% L.D. DATE 2/6/80 BY 540		



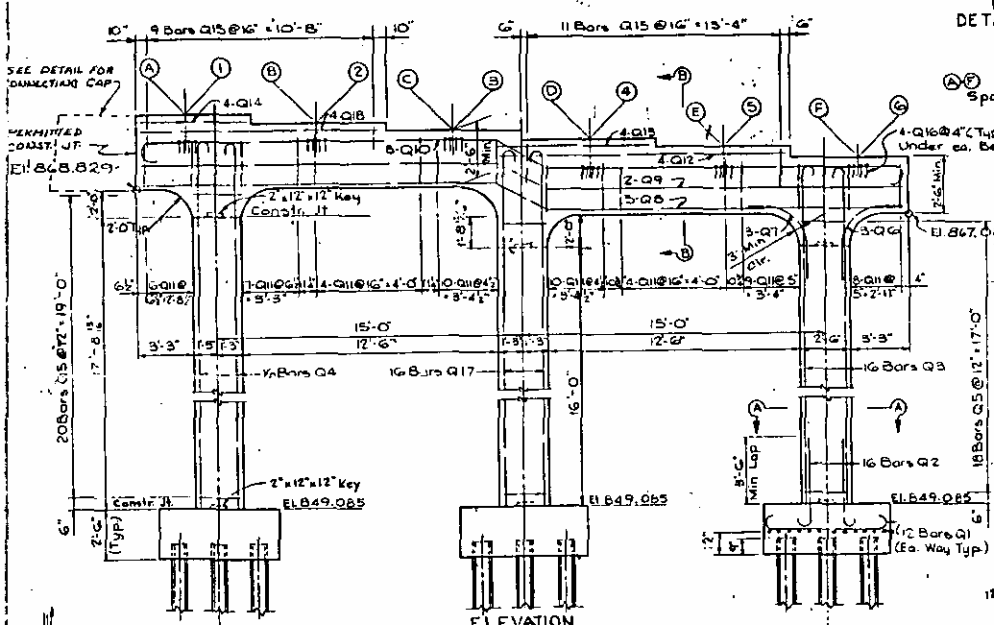
PLAN OF CAP



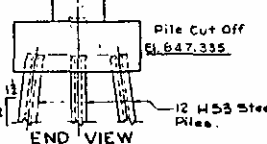
ANCHOR BOLT LAYOUT



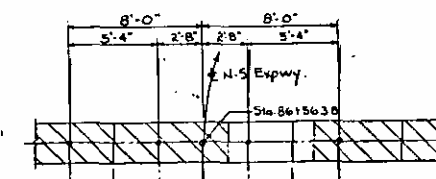
DETAIL OF TIE



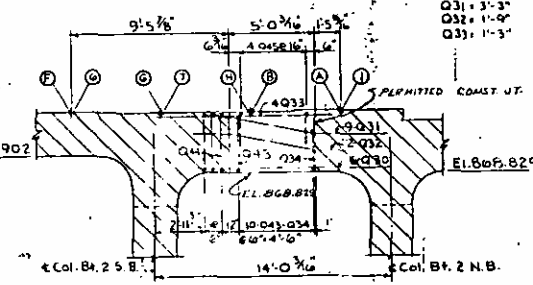
ELEVATION



END VIEW

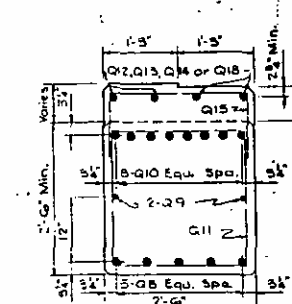


PLAN OF CAP

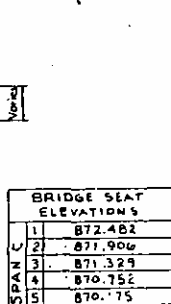


ELEVATION

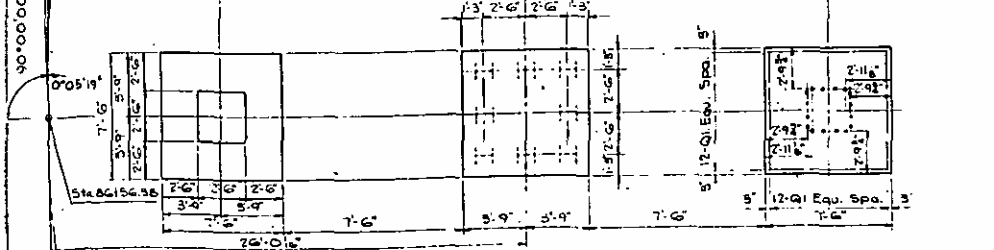
(Showing joining of B12 NB & B2 S.B.)



SECTION A-A



SECTION B-B



PLAN OF FOOTINGS

Notes: Spacing for Bars Q1 is typical for all footings.
Piles to be driven to a min. bearing capacity of 36 tons per pile.
For Pile Splice Details see Det. No. 537.

BRIDGE SEAT ELEVATIONS

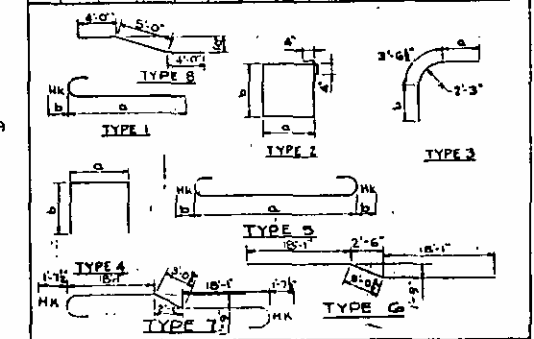
1	872.482
2	871.906
3	871.329
4	870.752
5	870.175
6	869.598
7	872.515
8	871.938
9	871.361
10	870.785
11	870.209
12	869.632

FILE NO.	STATE	PROJECT NO.	DATE
3	N.C.	8.1744901	1-31-1953

BILL OF REINFORCEMENT

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
Q1	72	6	5	8	901
Q2	48	11	1	6	1748
Q3	16	11	1	21	1854
Q4	16	11	1	23	2005
Q5	56	4	2	9	337
Q6	6	5	5	6	41
Q7	12	5	5	7	95
Q8	5	10	6	39	844
Q9	2	5	6	99	82
Q10	8	10	7	42	1463
Q11	56	5	2	9	565
Q12	4	4	5	15	42
Q13	4	4	5	8	22
Q14	4	4	5	10	18
Q15	20	4	4	6	87
Q16	24	4	4	2	45
Q17	16	11	1	23	1955
Q18	4	4	5	12	32
Q19	Q29	Not Used			
Q30	6	10	5	14	361
Q31	9	10	8	13	503
Q32	2	5	5	9	19
Q33	4	4	5	8	21
Q34	16	5	2	9	101
Q35	3	5	2	11	35
Q36	4	4	4	5	15

Note: Q34-Q43 (Vary by 2 1/2')



BILL OF MATERIAL

Item	Unit	Quantity
Concrete, Class A	CY	412
Reinforcing Steel	Lbs	13,407
Unreinforced Structural Steel	CY	65
2-1/2" HSB Steel Pipe - 40' Long	LF	420
UNLESS SHOWN OTHERWISE		
12 HSB STEEL PILES - 40' LONG	LF	480

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

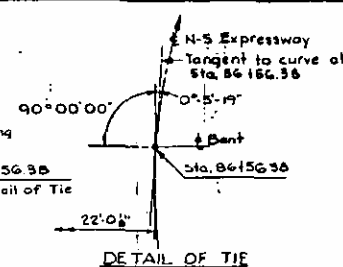
BENT 2 NORTHBOUND

STATION 86+56.38 N-S EXPR. FORTH OF

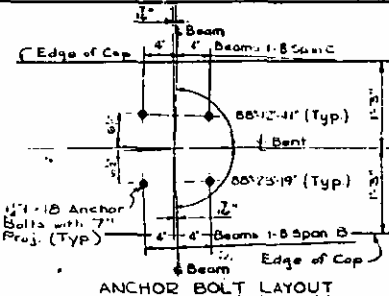
SMITH POLLITTE & ASSOCIATES INC.
CONSULTING ENGINEERS

COLUMBIA, S.C.

DATE 1/20/53



PLAN OF CAP

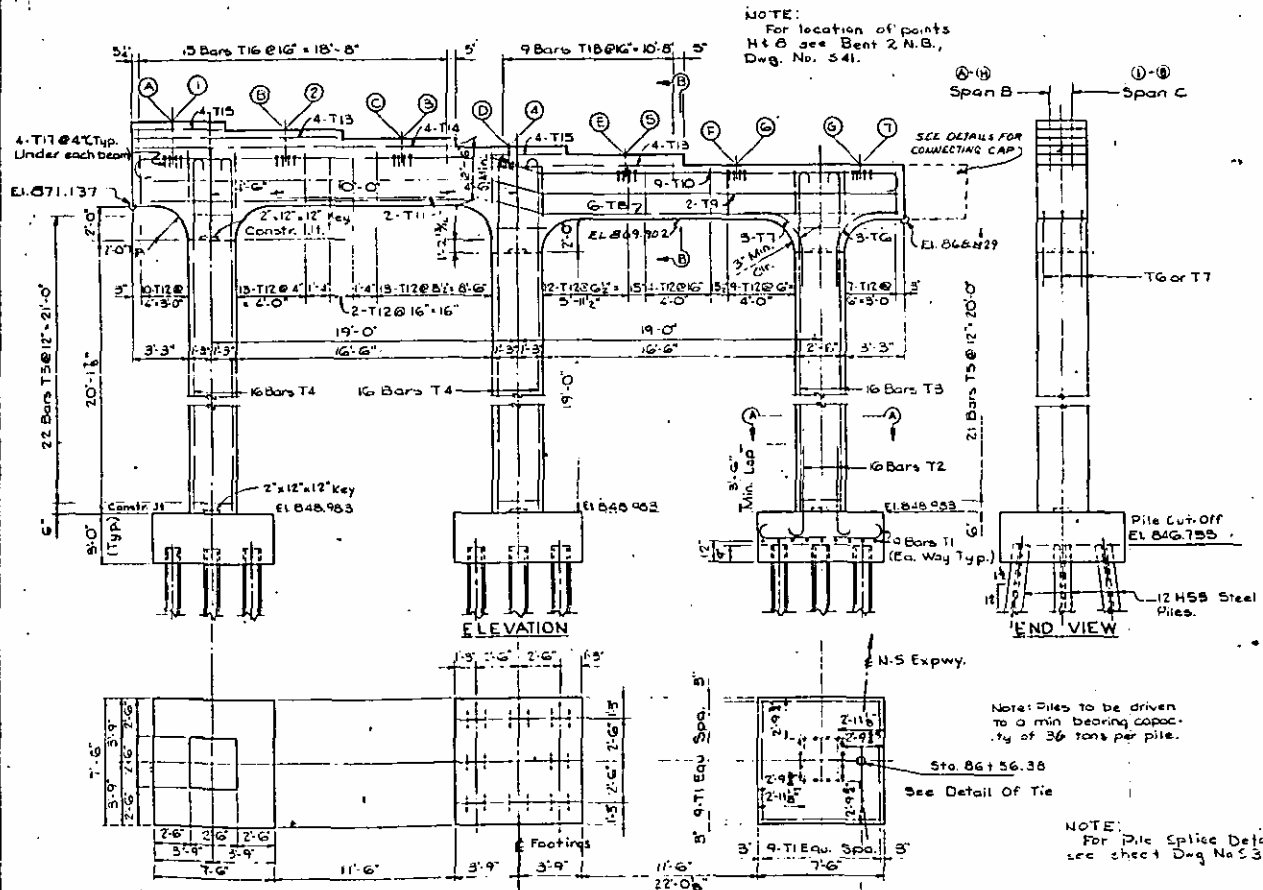


ANCHOR BOLT LAYOUT

FED. ROAD REG. NO.	STATE	STATE PROJECT NO.	FED. AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
2	N. C.	8.1744902	U-37-1(15)	40-5	40

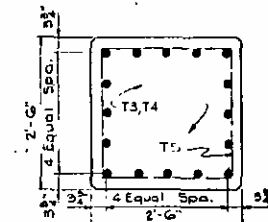
BAR	NUMBER		SIZE	TYPE	LENGTH			a		b		WEIGHT	
	Bar	Bar			Fl	Ins	Fl	Ins	Bar	Bar	Bar	Bar	
T1	54		3	5	8	4	7	0	0	8		676	
T2	48		11	1	7	4	5	6	1	9		870	
T3	16		11	1	24	10	23	0	1	9		1111	
T4	32		11	1	26	0	24	2	1	9		4470	
T5	64		1	2	9	0	2	1	2	1		585	
T6	6		5	3	6	7	1	0	2	0		41	
T7	12		5	3	7	7	2	0	2	0		95	
T8	6		10	7	46	11						1211	
T9	2		5	7	46	11						98	
T10	4		10	6	50	2						949	
T11	2		8	5t	10	0						55	
T12	70		3	2	9	4	2	2	2	2		681	
T13	8		4	5t	12	0						64	
T14	4		4	5t	18	2						51	
T15	8		4	5t	4	10						26	
T16	15		4	4	7	7	2	2	2	8		76	
T17	32		4	4	2	10	2	2	0	4		61	
T18	9		4	4	6	7	2	2	2	2		40	

BRIDGE SEAT ELEVATIONS		
Span - C	1	875.553
	2	874.790
	3	874.215
	4	873.637
	5	873.060
	6	872.485
	7	872.402
	8	872.454
Span - G	A	875.384
	B	874.821
	C	874.245
	D	873.668
	E	873.092
	F	872.515
H	G	872.433
	H	872.486

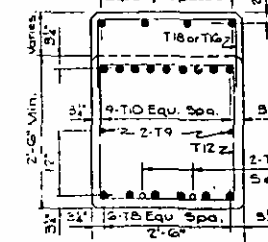


PLAN OF FOOTINGS

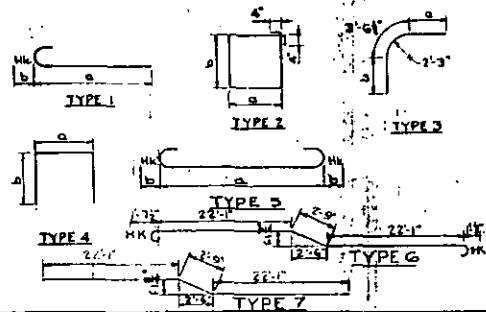
Note: File Spacing shown above is typical for all footings.



SECTION A-A



SECTION B-B



BILL OF MATERIAL

[illegible]

REVISION	DATE	DESCRIPTION	BY
STATE OF NORTH CAROLINA			
STATE HIGHWAY COMMISSION			
RALEIGH			

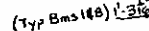
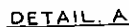
BENT 2 SOUTHBOUND

NOTE:
During construction Bent 2 SB
is to be joined to Bent 2 NB
See details this sheet "BENT
2 NORTHBOUND" & "FRAMING
PLANS."

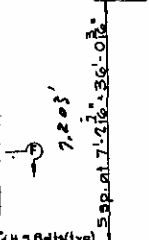
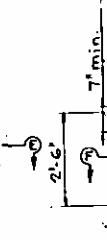
STATION 86+50.33 N-S Exwy. Forsyth Co
SMITH POLLITTE & ASSOCIATES INC.
CONSULTING ENGINEERS
COLUMBIA, S C WILSONVILLE, N.C.
DES. T.S. JENNCEFF CHA. LOM. DATE/68 JWG/HB/24

ELEVATIONS TOP OF BEAM AT $\frac{1}{4}$ BEARING

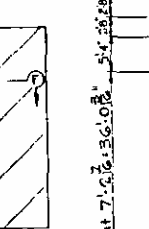
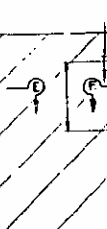
NOTES:
All structural steel shall be ASTM A36 Grade except as noted on sheet S-N.
At all knee points of support nts for anchor bolts are to be tightened finger tight and then backed off 1/2 turn. The thread of the nut and bolt shall then be buried with a sharp pointed tool.
For requirements for stud shear connectors, see Special Provisions.
For beam details, see Construction Elevations Sheet.



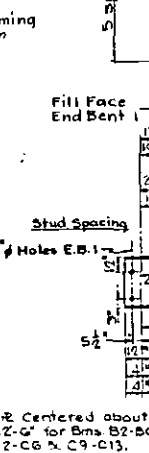
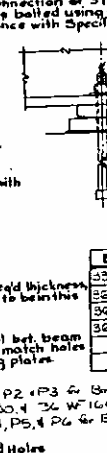
SECTION F-F



SECTION B-B

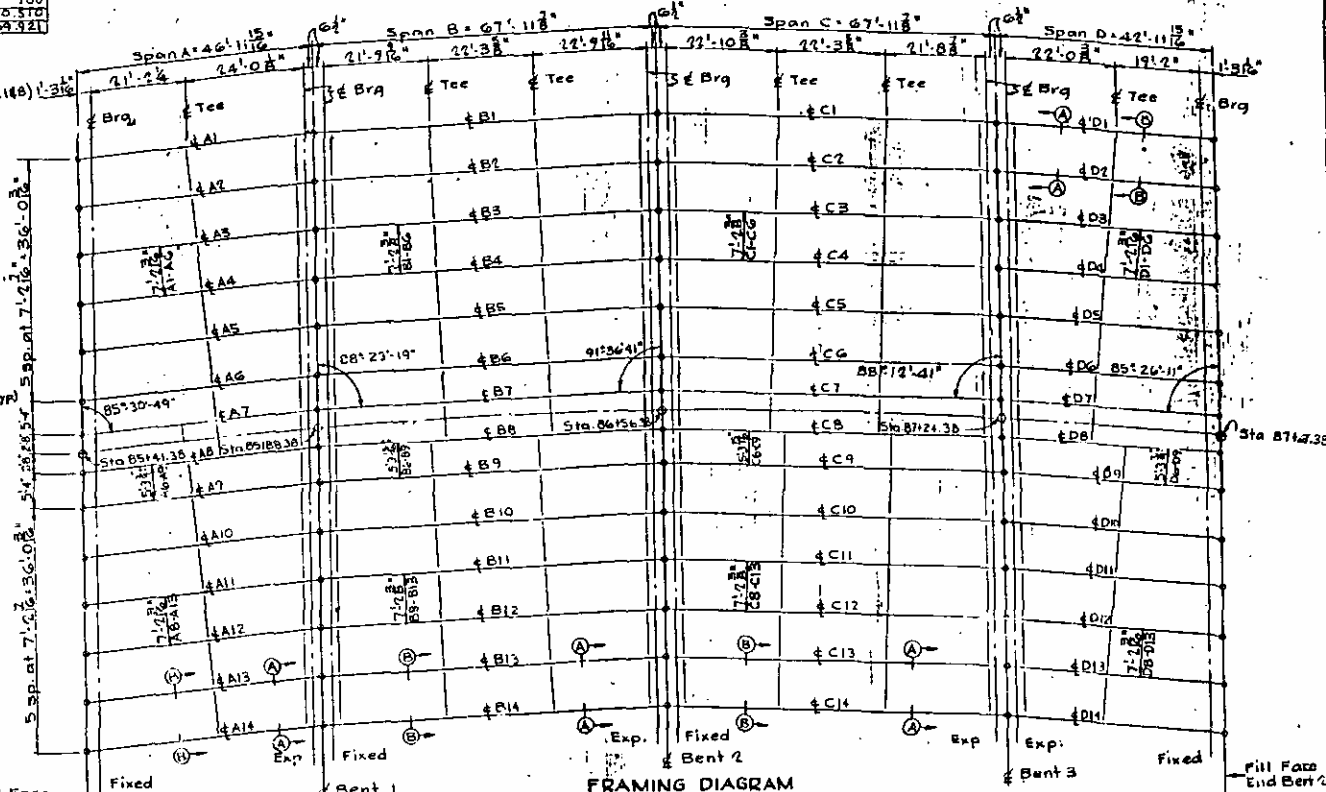


Note: Field connection of ST 9W25 to beams shall be bolted using 2 # H.S Bolts in accordance with Specifications.



COVER PLATE DETAIL

Brq. Assem't with Beam No. & Bent No.; A-C.B.I etc. Mark



FRAMING DIAGRAM

los E.B.2 BEAM SIZES

A7-A13: B3 WF 112 Composite
A14-A15: B6 WF 135 Composite

B1, B14, C1, C14: B6 WF 120 7/8" x 10 1/2" Flt Composite
B2, B6, C2, C6: B6 WF 130 7/8" x 10 1/2" x 14 1/2" Flt Comp
B7, B13, C9, C13: B6 WF 150 7/8" x 10 1/2" x 14 1/2" Flt Comp
B7, B8, C7, C8: B6 WF 135 7/8" x 10 1/2" x 18 3/8" Flt Comp

D1-D6, D9-D14: B6 WF 118 Non Composite
D7, D8: B3 WF 112 Non Composite

CAMBER

A1-A14 & D1-D14: None
 B1 & B14: 1 7/16" C1 & C14: 1 1/2"
 B2-B5 & B1-B13: 1 3/16" C2-C5 & C10-C13: 1 3/16"
 B6 & B9: 1 3/8" C6 & C9: 1 1/2"
 B7 & B8: 1 7/16" C7 & C8: 1 1/2"

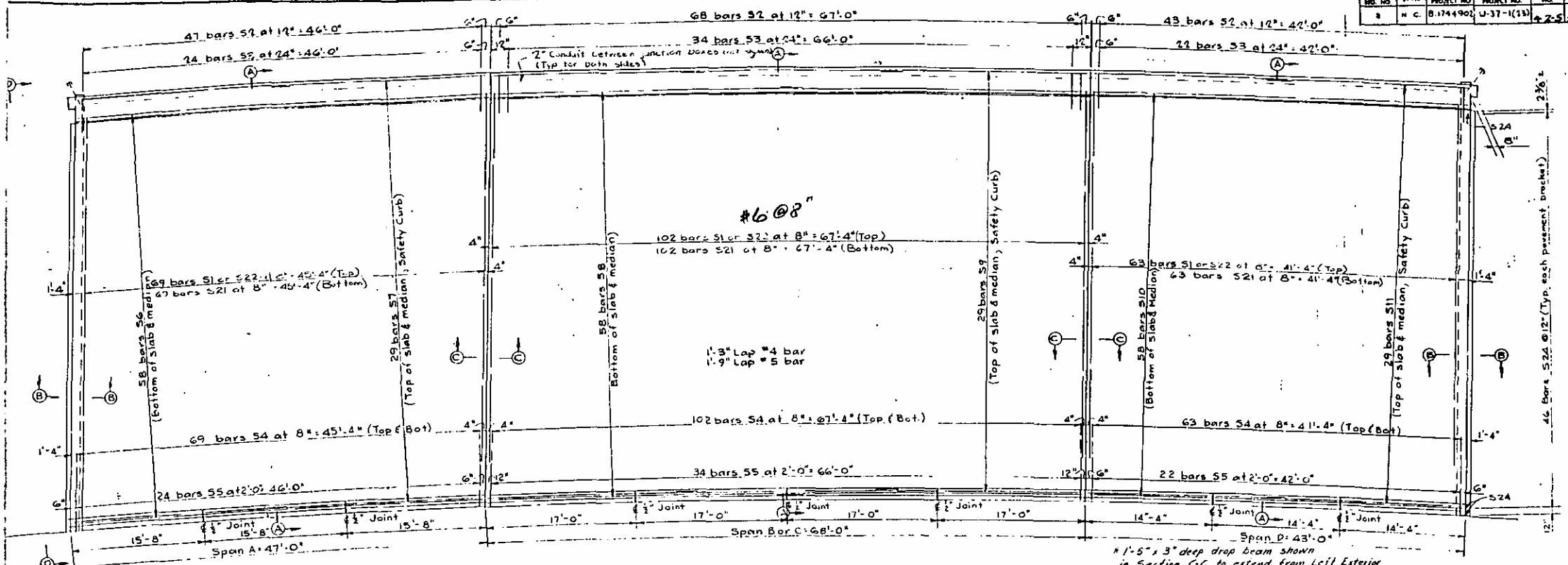
Ends of beams shall be made plumb with the grade courses
more than 1" horizontal difference between bot. & top of beam

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

FRAMING PLAN

STATION: 86+56.38 N-S Exp. Forayth, Ia
SMITH, POLLITTE & ASSOCIATES, INC.
CONSULTING ENGINEERS
COLUMBIA, S C WINSTON-SALEM, NC
DES: PC DRAWN: JLB INK: TSJ RATE: \$/hr LOW: NO S&S

FED. ROAD DIST. NO.	STATE	STATE PROJECT NO.	FED. AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
3	N.C.	8.1744902	U-37-1(13)	42	50



HALF PLAN

Scale: $\frac{1}{8}'' = 1'-0''$

Note: For Handrail Post spacing, see Layout Dwg.

SLAB

$$\begin{aligned} sp. A &= 7.5 + .718 = 8.238'' \\ sp. B-C &= 4 + .94 = 4.94'' \\ sp. D &= 4 + .144 = 4.144'' \end{aligned}$$

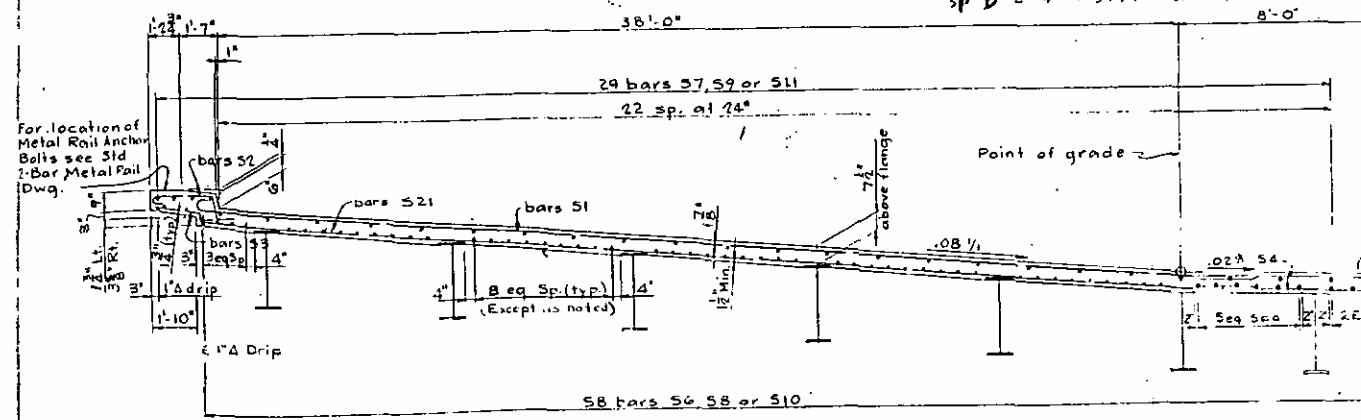
4 #4 S25 bars @ 12" cts. along skew
Typical each bay with #5 K2 bars

4 #4 S25 bars @ 12" cts. along skew
Typical each bay with #5 K2 bars

Dimensions & reinforcing
Symm. about N-S Exp.

* 1'-5" x 3" deep drop beam shown in Section C-C to extend from Left Exterior Beam to Right Exterior Beam.

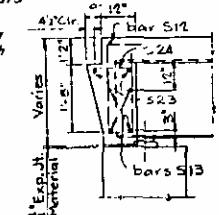
Keep free of concrete & soil with 1/2" hot Poured Rubber Asphalt Material. See Special Provisions.



SECTION A-A

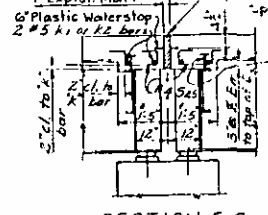
Scale: $\frac{1}{4}'' = 1'-0''$

Bar: 5' covered point in concrete transition zone. Covered point in concrete transition zone.



SECTION B-B

Scale: $\frac{1}{4}'' = 1'-0''$

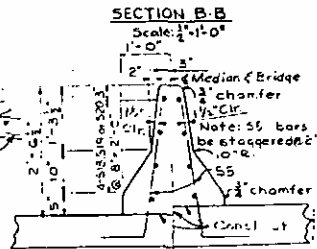


SECTION C-C

Scale: $\frac{1}{4}'' = 1'-0''$

NOTE: For barrier median details see Detail A.

Const. Joint in slab only. Bars S22.



DETAIL A

Scale: $\frac{1}{4}'' = 1'-0''$

Sheet 1 of 2

REVISION	DATE	DESCRIPTION
1	1/2/84	As Shown

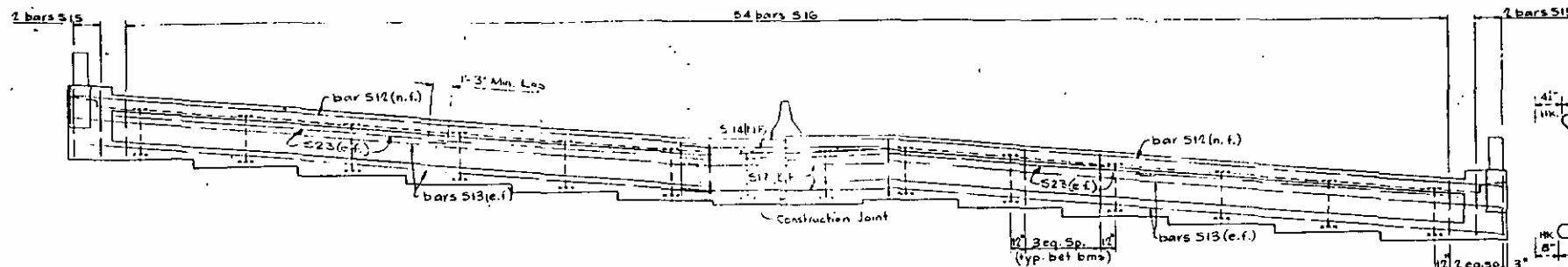
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
RALEIGH

DECK

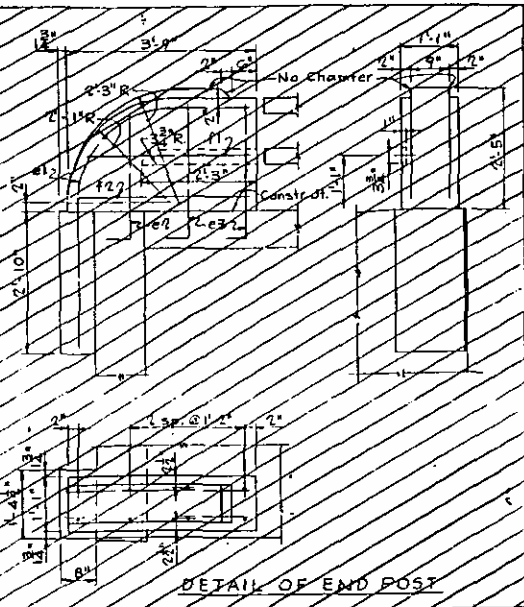
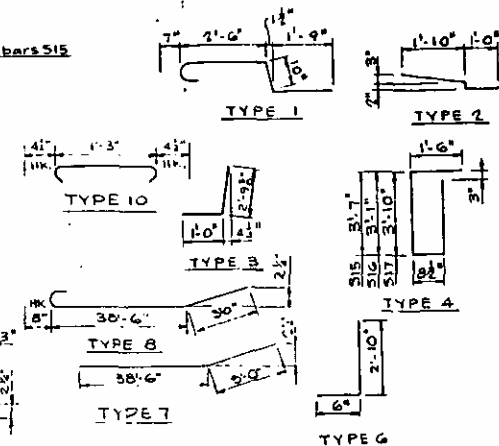
STA: 86+56.38 N.S. Exp., Forsyth County
SMITH, POLLITTE & ASSOCIATES, INC.
CONSULTING ENGINEERS
COLUMBIA, S.C. WINSTON-SALEM, NC
DES. PC. DRAWN/EA. CHK. TSJ. DATE 5/10/83 SHEET NO. 34

Rev 1 - To add bars K1, K2, & S25 in Section C-C and related notes. by G.E.T. - NWS

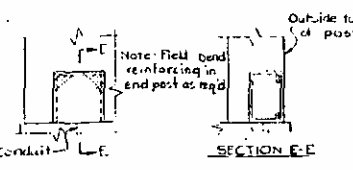
RD. ROAD	STATE	STATE	RD. AD.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
8	N.C.	8	1744	U-37-1(12)	43	55



ELEVATION D-D
Scale: 1/4" = 1'-0"



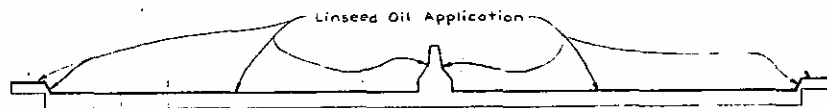
DETAIL OF END POST



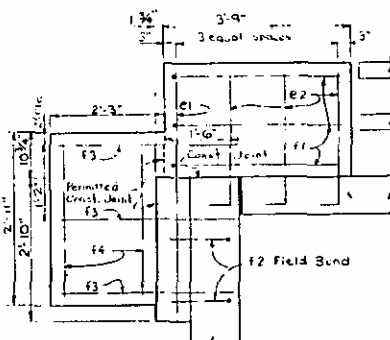
JUNCTION BOX AT END POSTS

Bill of Material (Electrical)	
Junction Boxes	1 each
Expansion Fittings	6 each
2" Conduit	approx. 460 L.F.
1/2" Fiber Duct	approx. 220 L.F.

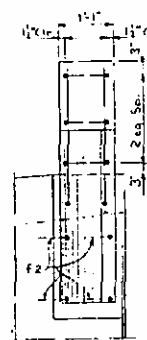
To include necessary fittings
See note on sheet (General Plan)



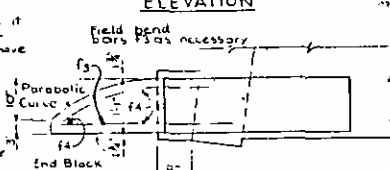
Linseed Oil Application



ELEVATION



END VIEW



TOP VIEW

DETAIL OF END POST

BILL OF REINFORCEMENT												
BAR	NUMBER REQUIRED				SIZE	TYPE	LENGTH Ft.	In.	WEIGHT			
	Span A	Span B	Span C	Span D					Span A	Span B	Span C	Span D
S1	94	136	136	44	6	8	42	2	1,370	4,460	4,460	2,090
S7	94	136	136	44	6	8	42	2	1,370	4,460	4,460	2,090
S3	48	68	68	44	4	2	3	0	556	804	804	505
S4	136	204	204	126	5	5	16	2	2,327	3,440	3,440	2,025
S5	24	34	34	22	5	3	10	2	96	136	136	85
S6	116	-	-	-	5	5	24	6	5,626	-	-	-
S7	116	-	-	-	4	5	24	0	1,860	-	-	-
S8	-	232	232	-	5	5	34	7	-	8,409	8,409	-
S9	-	174	174	-	4	5	23	3	-	2,702	2,702	-
S10	-	-	-	116	5	5	12	6	-	-	-	414
S11	-	-	-	116	4	5	22	0	-	-	-	1001
S12	2	-	-	2	6	5	43	6	131	-	-	16
S13	8	-	-	8	5	5	43	6	363	-	-	36
S14	4	-	-	4	5	5	16	8	17	-	-	-
S15	4	-	-	4	4	4	9	2	24	-	-	-
S16	54	-	-	54	4	4	8	2	295	-	-	-
S17	4	-	-	4	5	5	16	2	67	-	-	6
S18	16	-	-	16	4	5	15	4	164	-	-	-
S19	-	24	24	-	4	5	16	8	-	267	267	-
S20	-	-	-	16	4	5	14	0	-	-	-	190
S21	4	-	-	4	8	1	4	11	53	-	-	53
S22	12	-	-	12	8	6	3	4	107	-	-	107
S23	6	-	-	6	6	11	7	10	71	-	-	71
S24	8	-	-	8	4	5	3	5	18	-	-	18
S25	12	-	-	12	4	5	3	7	29	-	-	29
S26	8	-	-	8	4	5	2	5	13	-	-	13
S27	136	204	204	126	6	7	41	4	8,601	12,716	12,716	780
S28	67	102	102	60	6	9	42	6	4,270	6,400	6,400	2,215
S29	8	-	-	8	4	5	24	2	120	-	-	120
S30	72	-	-	72	4	10	2	7	124	-	-	124
S31	72	144	144	72	4	13	2	9	132	265	265	132
S32	20	40	40	20	5	12	10	2	212	424	424	212
S33	6	12	12	6	5	12	8	2	51	102	102	51

Note: For details of anchor bolts & attachment of standard guards, see sheet.

Rev. 1 - To add bars #1, #2, #3 and to change Reinforcing Steel and Concrete Quantities, by G.M. & N.N.

BILL OF MATERIAL			
Span A	Span B	Span C	Span D
214.1	187.6	187.6	130.3
29,964	42,321	42,321	27,477
11	151	151	107

Sheet 2 of 2

REVISION	DATE	DESCRIPTION
1	1-1-57	As Shown

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

STA: 86+56.36 N-5 Exp. Forsyth Co. N.C.

SMITH, POLLITTE & ASSOCIATES, INC.
CONSULTING ENGINEERS

COLUMBIA, S.C. WINSTON-SALEM, N.C.

DATE: 5/16/57



Revision No. 1 - to change from high button head to standard
2 button head for rivets. - S. 1. 5-16-66 - LHM (ENR-11)