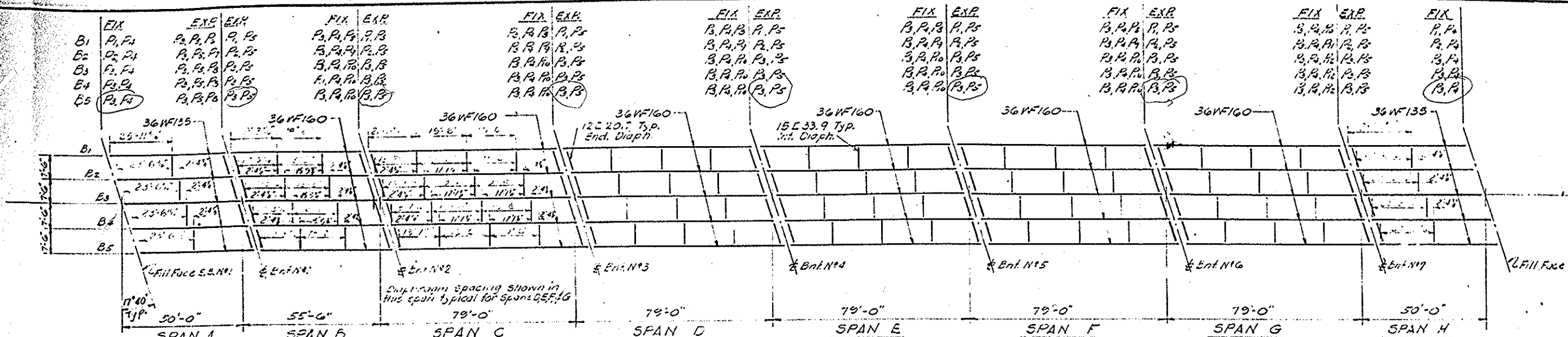




for Special Provisions
for description of
these connectors

Ext. Bms.	16 sps. @ 1 1/2"	6 sps. @ 9"	6 sps. @ 10 1/2"	5 sps. @ 11'0"	5 sps. @ 11'3"	4 sps. @ 11'6"	356 studs per Ext. Bm.
	= 10'0"	= 4'6"	= 5'3"	= 7'0"	= 6'3"	= 6'0"	
Int. Bms.	10 sps. @ 6"	13 sps. @ 7 1/2"	7 sps. @ 9"	5 sps. @ 10 1/2"	7 sps. @ 11'0"	5 sps. @ 11'3"	2 sps. @ 11'6"
	= 5'0"	= 8'1 1/2"	= 5'3"	= 4'4 1/2"	= 7'0"	= 6'3"	= 3'0"
Ext. Bms. 36 W 160 Int. Bms. 36 W 160							Between Bearings

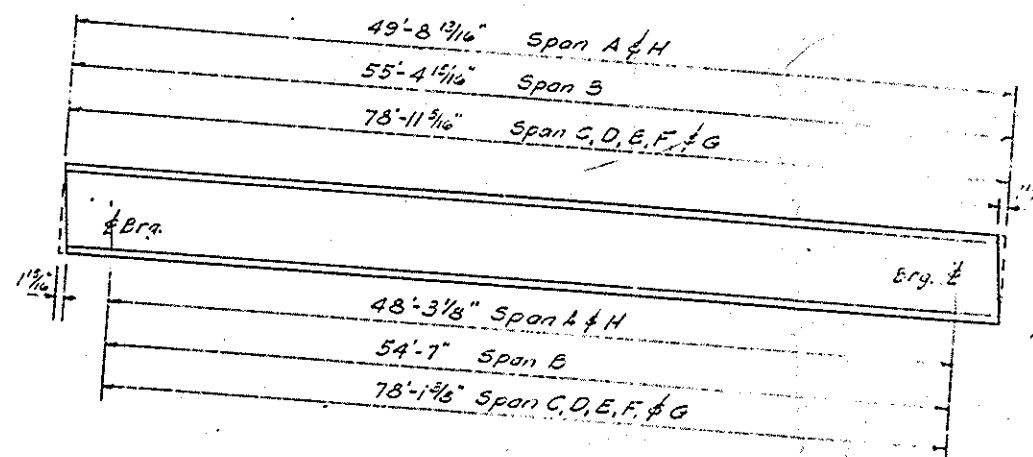
£ Cry.

Ext. Ems. Cover Φ 25'-3" (10" x 1" x 50'-6")
Int. Ems. Cover Φ 26'-3" (10" x 1 1/16" x 52'-6")

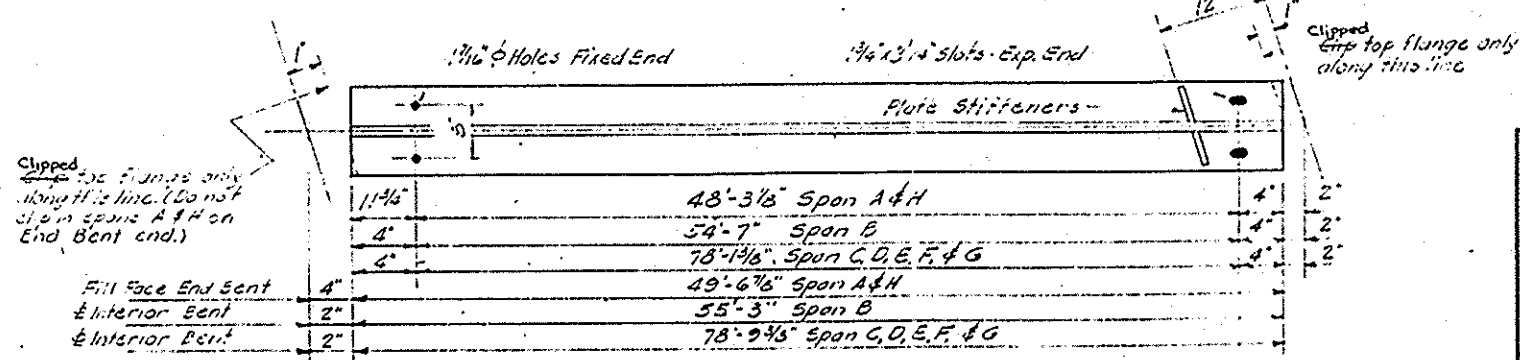
STUD SPACING AND COVER PLATES

Earnings in Spans C, D, E, F, & G Only

~~At the construction site, the cover plates for the corner plates designated on the clearance table of experience are provided. These plates are of least thickness and are placed with equal width to the flange width less 2" or thickness equal to 1.5 times the flange thickness. The size of the weld for attaching these corner plates shall be in accordance with the A.I.W.S. Specifications.~~

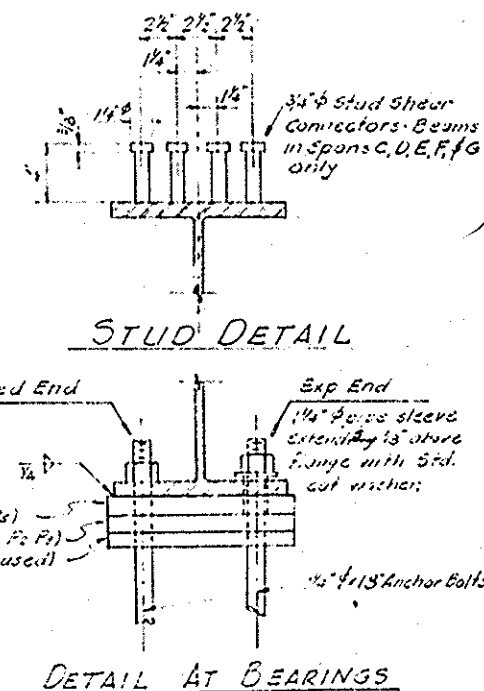


BEAM BEVEL DETAIL



BOTTOM FLANGE DETAIL

All dimensions are along slope



PROJECT NO. 960302J6

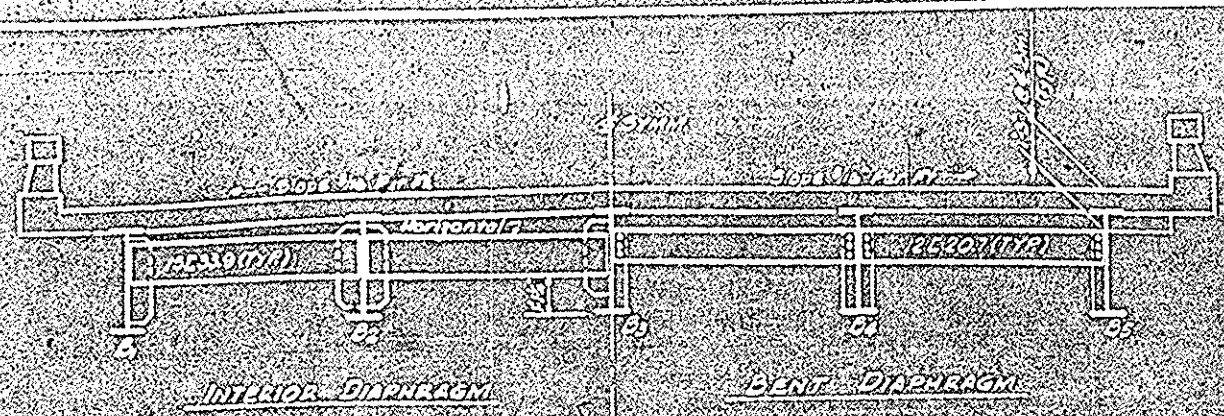
SUNCOMBE COUNTY

STATION: 13 + 43.75

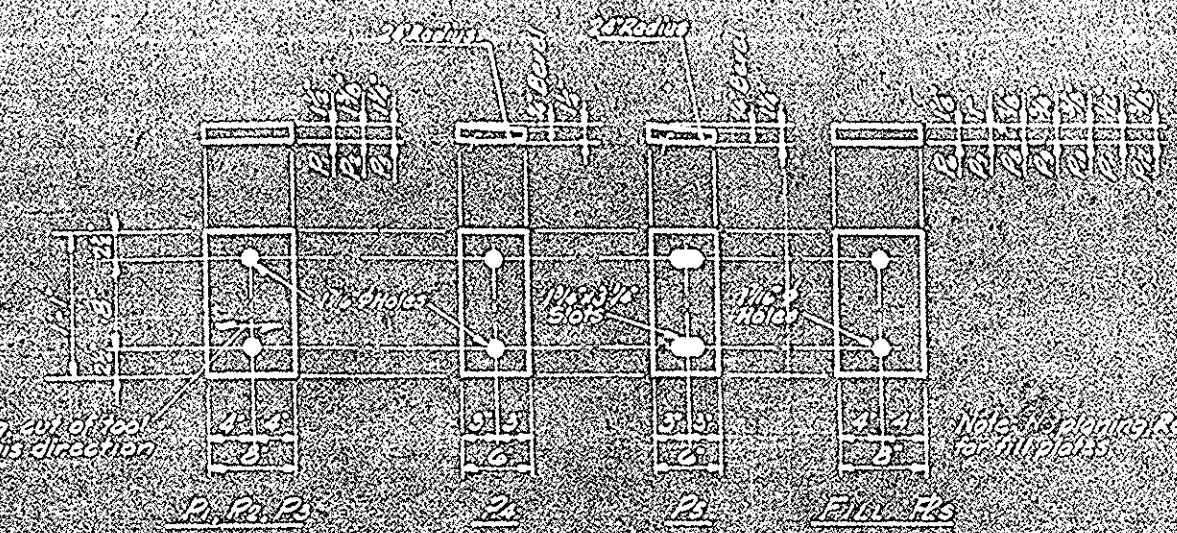
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

STRUCTURAL STEEL

REVISIONS						DATE
NO.	BY	DATE	NO.	BY	DATE	NO.
1			1			5-3
2			2			7-8

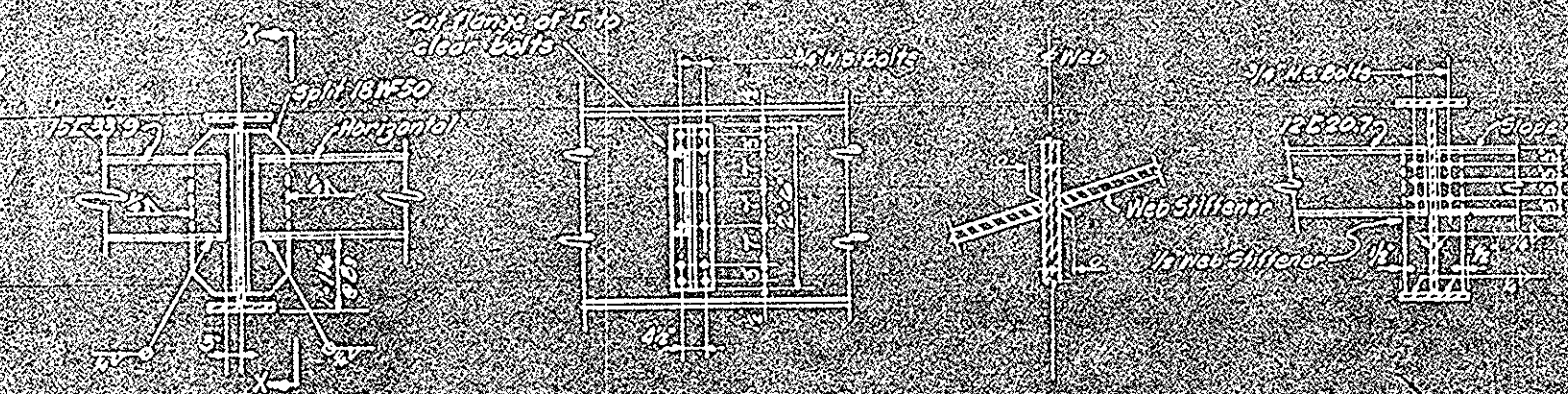


TYPICAL SECTION



BEARING PLATE DETAILS

Span	Notes
A	9
B	9
C	10
D	10
E	1
F	1
G	1
H	10
I	1
J	1



INTERIOR DIAPHRAGM CONNECTION

SECTION XX

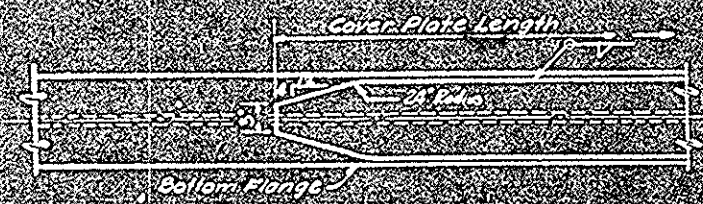
DIAPHRAGM CONNECTION AT BENT & DETAIL WEB STIFFENER

STRUCTURAL STEEL APPROXIMATE WEIGHT

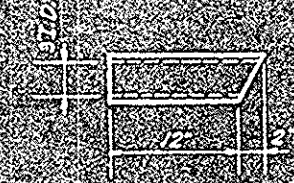
SPAN	APPROX. LBS.
A	36,500
B	49,400
C	80,700
D	80,700
E	80,700
F	80,700
G	80,700
H	36,500
TOTAL	525,900

NOTES

All beams and cover plates shall be of A572 Grade 50 structural steel. All reinforcement shall be of A615 Grade 60 steel. Field connections of diaphragms to beams shall be welded using 1/2" high strength bolts in accordance with the Specifications. Tops of floor drains shall be set 1/2" below surface of slab. No web stiffeners are required on the outside of exterior beams or at bents. Stiffeners are to be parallel to ends of beams. All reinforcement shall be placed in accordance with the Specifications. For requirements for stud shear connectors see Special Provisions. All bearing assemblies shall be placed in accordance with the Specifications. All reinforcement shall be placed in accordance with the Specifications.



COVER PLATE WELD DETAIL



DRAIN DETAIL

130 Required

DEFLECTION TABLE

	SPAN A & H		SPAN B		SPAN C, D, E, F, G	
	Int. Brs.	Ext. Brs.	Int. Brs.	Ext. Brs.	Int. Brs.	Ext. Brs.
Deflection due to beam Mt.	1/16"	1/16"	45/16"	45/16"	1/16"	1/16"
Defl. due to superimposed D.L.	1/16"	1/16"	3/8"	3/8"	1 3/16"	1 3/16"
TOTAL DEFLECTION	1/8"	1/8"	11/16"	11/16"	2 3/16"	2 3/16"
CAMBER BEAMS	*	*	1/16"	1/16"	2 3/16"	2 3/16"

* No camber other than natural mill camber required.

See page 10 structures Pay Record
Book 1 & page 22 structures Pay Record
Book 2

PROJECT NO. 983021
BUNCOMBE COUNTY
STATION 13+49.75

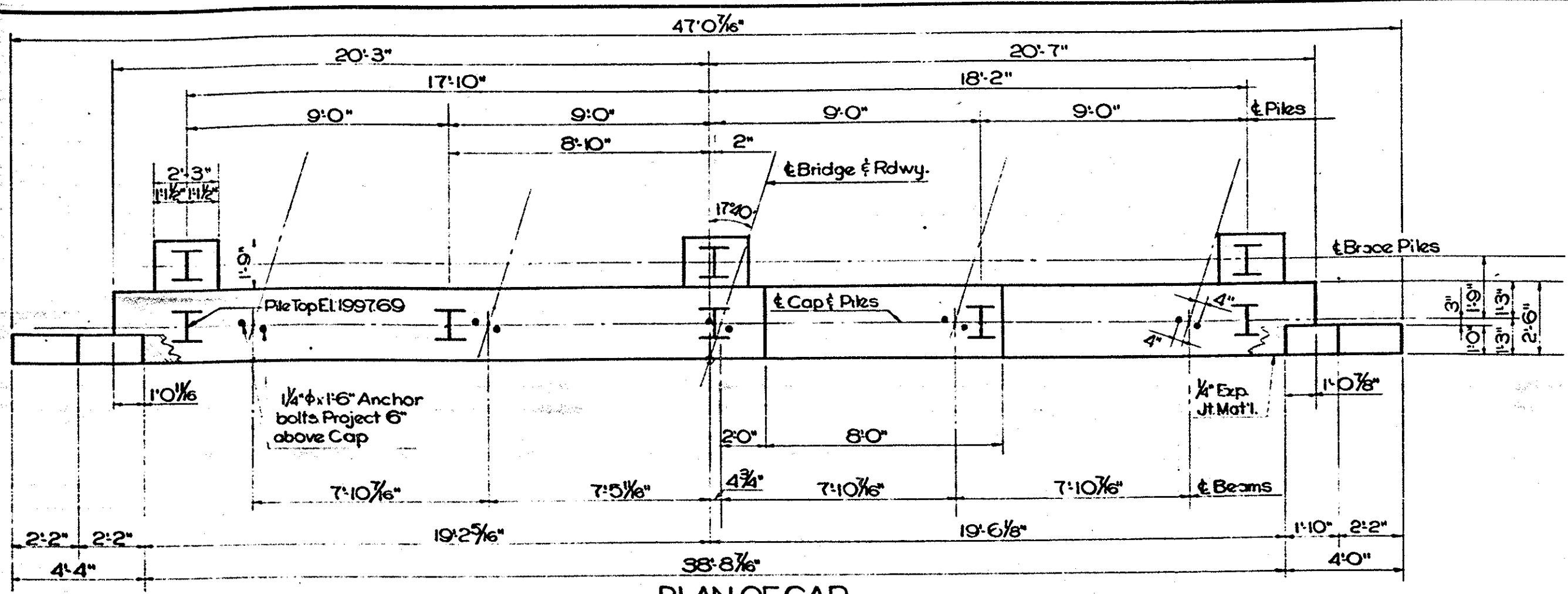
STATE OF NORTH CAROLINA
HIGHWAY COMMISSION
BUNCOMBE COUNTY
STATION 13+49.75

STRUCTURAL STEEL

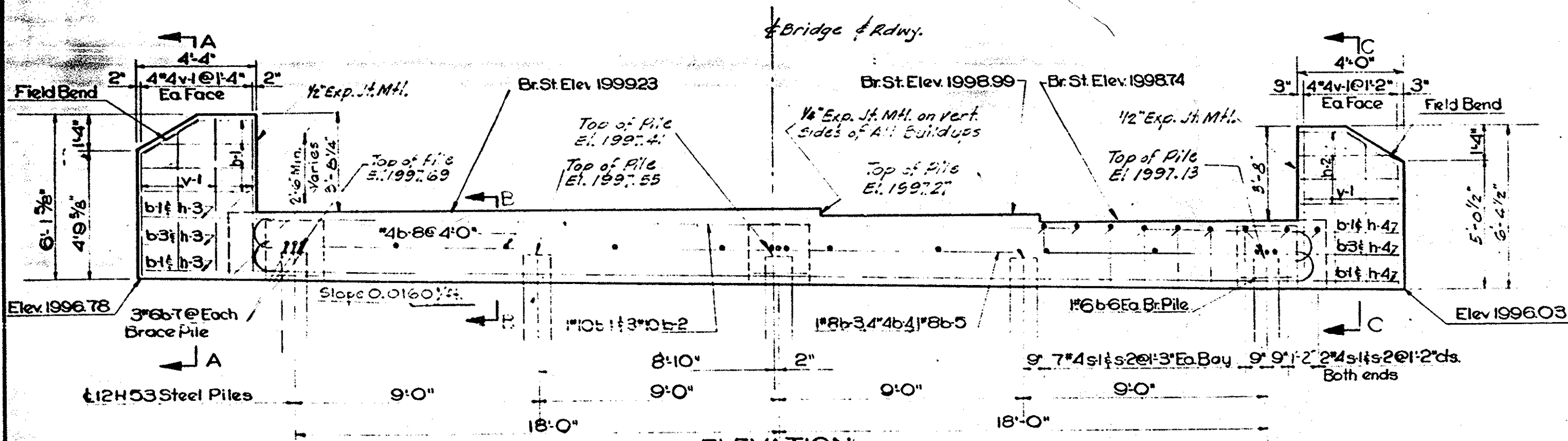
NO.	REV.	DATE	BY	CHK.	APP.
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2	1				

5-7-78

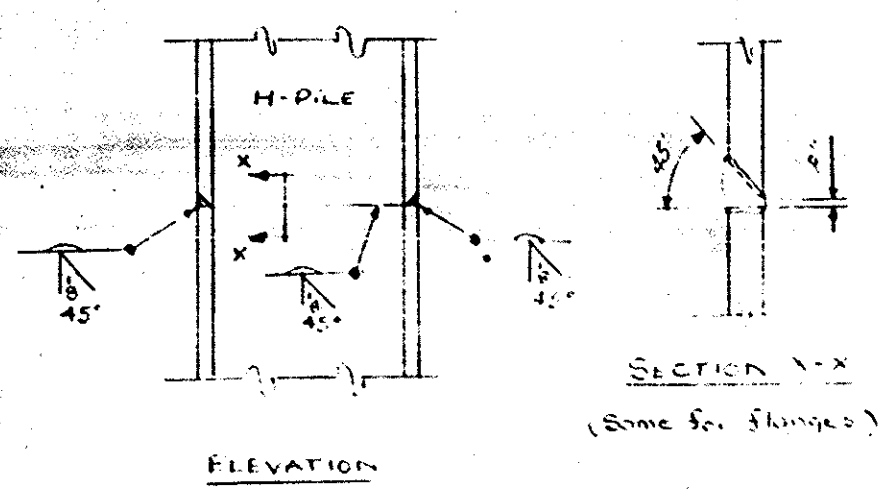
DESIGNED BY: J.E. WOOD
CHECKED BY: J.E. WOOD
APPROVED BY: J.E. WOOD
DATE: 10/1/78



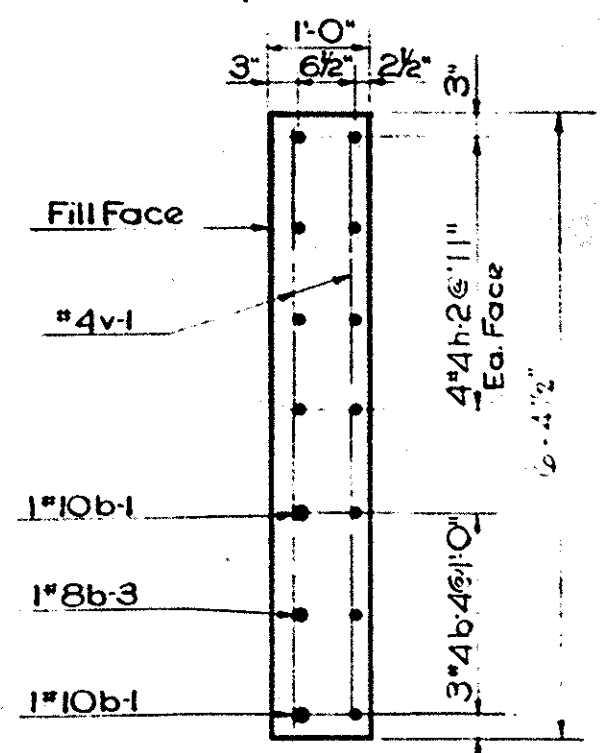
PLAN OF CAP



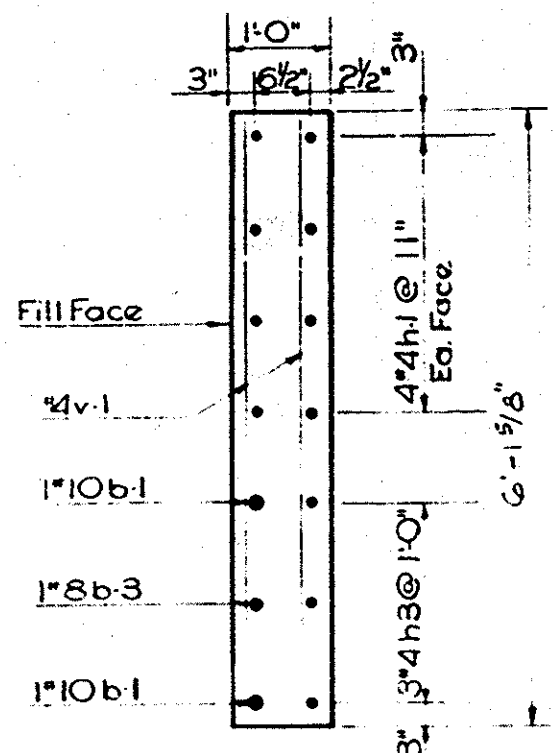
ELEVATION



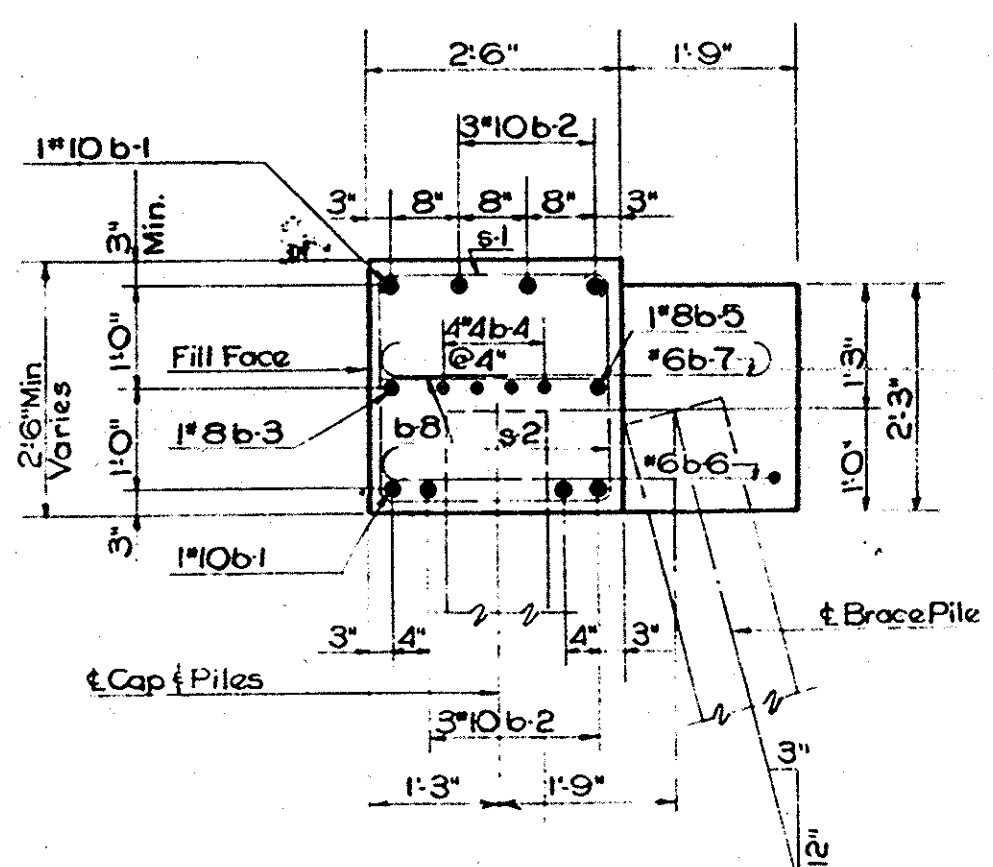
FIELD SPLICE FOR STEEL H PILES



SECTION C-C

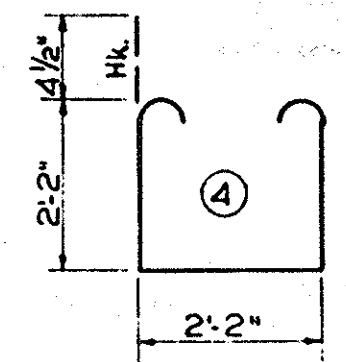
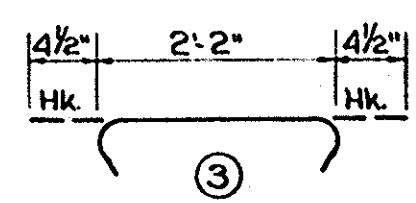
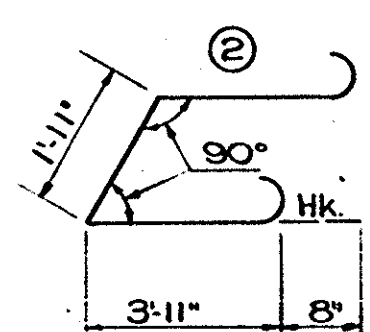
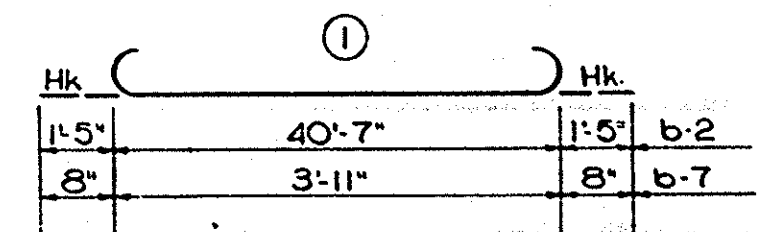


SECTION A-A



SECTION B-B

BAR DETAILS



NOTE: All dimensions in "Bar Details" are out to out of bar.

BILL OF MATERIALS FOR ONE BENT

Bar No.	Size	Type	Length
b-1	2	*10 Str.	29'
b-2	6	*10	25'
b-3	1	*8 Str.	29'
b-4	8	*4 Str.	211'
b-5	1	*8 Str.	26'
b-6	3	*6	111'
b-7	9	*6	18'
b-8	11	*4 Str.	12'
h-1	8	*4 Str.	4'
h-2	8	*4 Str.	29'
h-3	3	*4 Str.	4'
h-4	3	*4 Str.	23'
s-1	32	*4	31'
s-2	32	*4	3'
v-1	16	*4 Str.	311'

Reinf Steel lbs. 2347
Class A Conc. Cu Yd. 12.1
12H53 Steel Piles 6

See pages 12-14 Structure Record Book 1

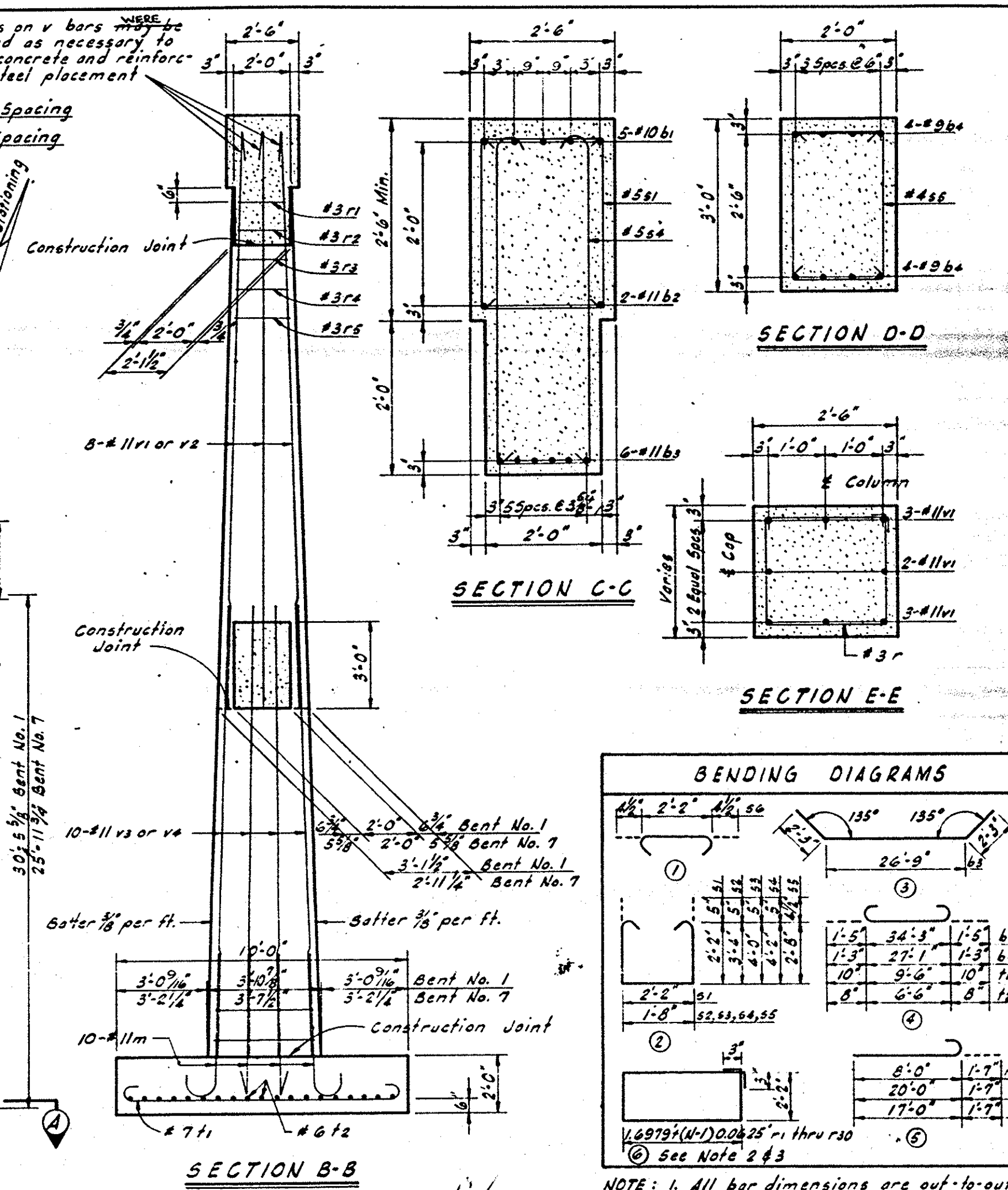
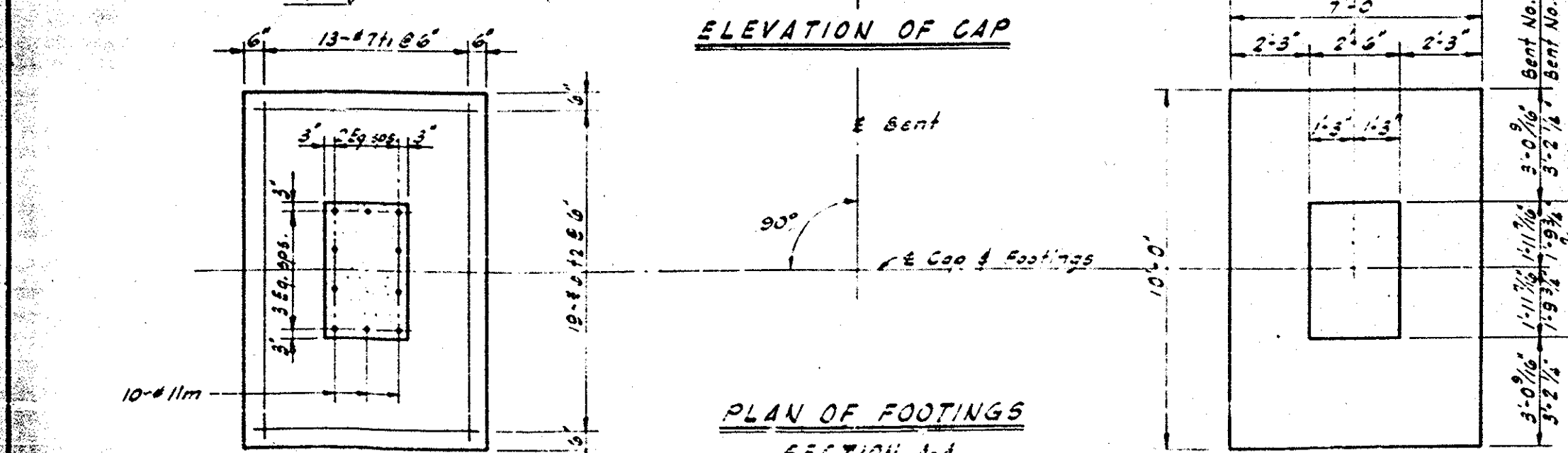
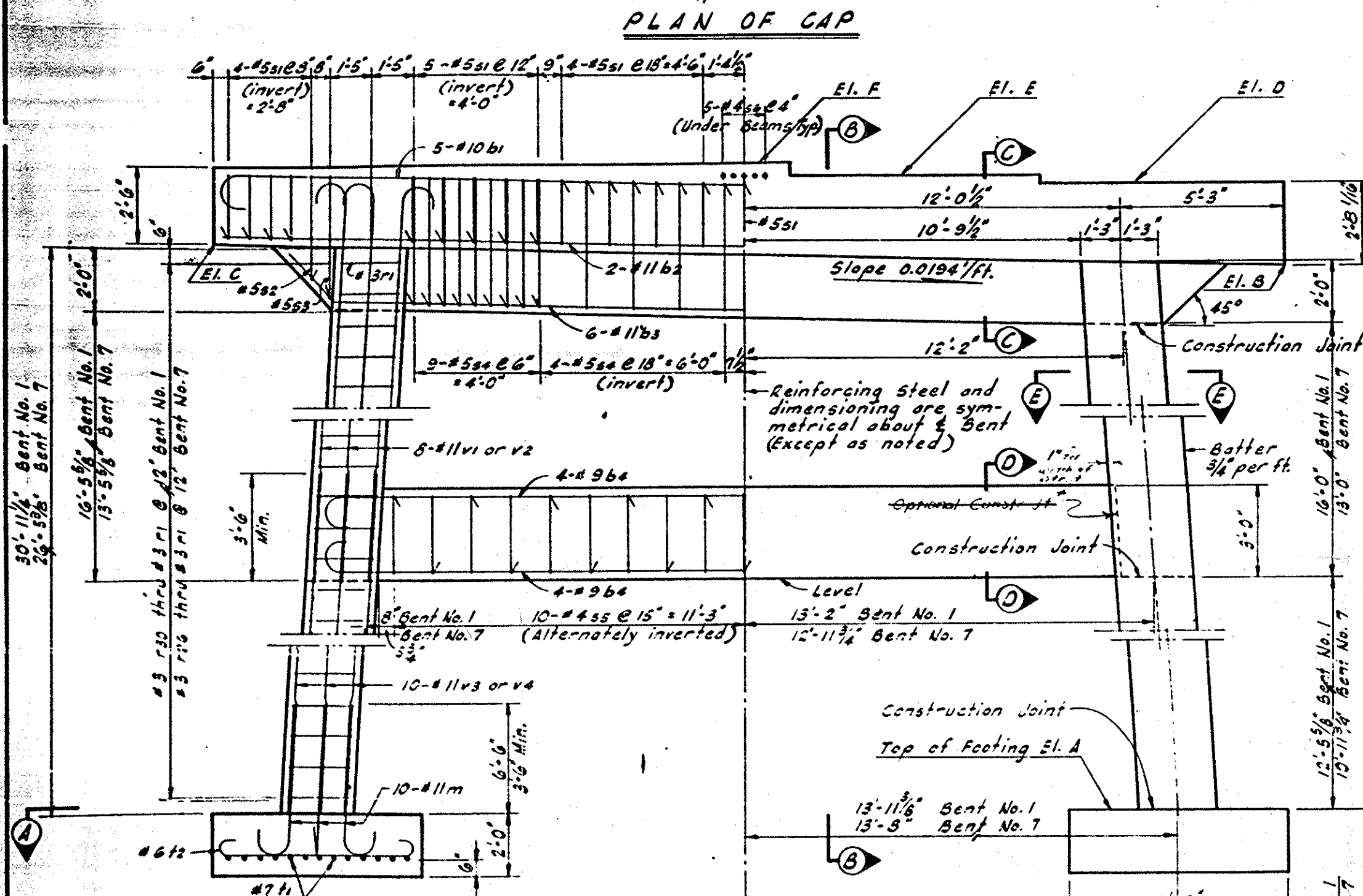
PROJECT NO. 9.8-2
BUNCOMBE COUNTY
STATION: 13+43.7

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

SUBSTRUCTURE
END BENT No. 1

REVISIONS			
NO.	BY	DATE	NO.
1			1
2			2

DESIGNED BY R.E. Turner
DRAWN BY R.K. Blum
CHECKED BY R.E. Turner
DATE July 4, 1967
DATE July 4, 1967
DATE July 4, 1967



REINFORCING BAR SH FOR ONE BENT					
BAR	SIZE	TYPE	LENGTH		NO.
			BENT NO. 1	BENT NO. 2	
b1	10	4	37'-7"	37'-7"	5
b2	11	Str.	34'-3"	34'-3"	12
b3	11	3	31'-3"	31'-3"	6
b4	9	4	29'-7"	29'-7"	8
m.	11	5	9'-7"	9'-7"	20
s1	5	2	7'-4"	7'-4"	27
s2	5	2	9'-2"	9'-2"	2
s3	5	2	10'-6"	10'-6"	2
s4	5	2	10'-10"	10'-10"	26
s5	4	2	7'-9"	7'-9"	19
s6	4	1	2'-11"	2'-11"	25
					1
r1-r30	3	3-6	8.22824 (N)0.1250	—	2 E.
r1-r26	3	3-6	—	8.22824 (N)0.125	2 E.
t1	7	4	11'-2"	11'-2"	26
t2	6	4	7'-10"	7'-10"	38
v1	11	5	21'-7"	—	16
v2	11	5	—	18'-7"	16
v3	11	Str.	16'-0"	—	20
v4	11	Str.	—	14'-6"	20
CONCRETE VOLUME FOR					
POUR NO.	LOCATION		CU. YDS.		
4	Cap		12.5		
3	Stems & Strut		32.5		
2	Stems		4.5		
1	Footings		46.5		
BILL OF MATERIALS					
LOCATION	CLASS A CONCRETE	RE-OK			
	CU. YDS.				
Bent No 1	44.6	47.4	9.		
Bent No 2	41.3	42.0	9.		

SCHEDULE OF ELEVATIONS		
MARK	BENT NO 1	BENT NO 2
A	1963.00	1943.00
B	1993.37	1968.58
C	1994.04	1969.55
D	1996.04	1971.56
E	1996.29	1971.81
F	1996.54	1972.05

*NOTE: If the optional construction just shown the contractor will be required to spike the horizontal bars in the stirruts outside the face of each post. The additional cost of the steel bars required for the stirruts must be absorbed by the contractor.

SCHEDULE OF ELEVATIONS MARK A		
	LEFT FOOTING	RIGHT FOOTING
Bent No. 1	1964.70	1965.90
Bent No. 7	1948.70	1943.50

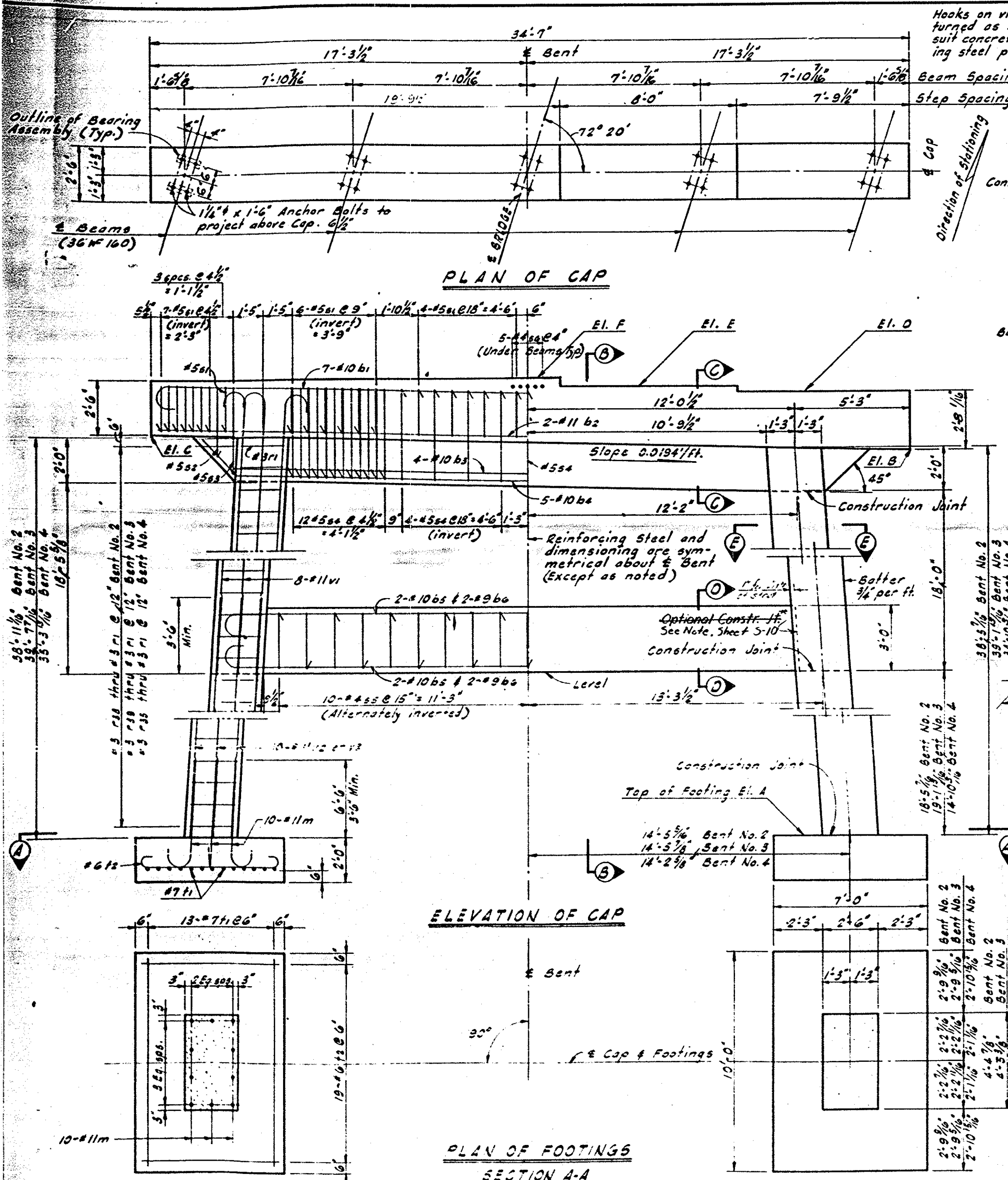
See pages 15-21 & 55-62 STRUCTURE PAY
Rechen Book 1

PROJECT No. 913
BUNCOMBE COIN
STATION: 13+48.5

STATE OF NORTH CAROLINA
STATE HIGHWAY COIN
PAISIGN

SUBSTRUCTURE
BENT No. 1 & 7

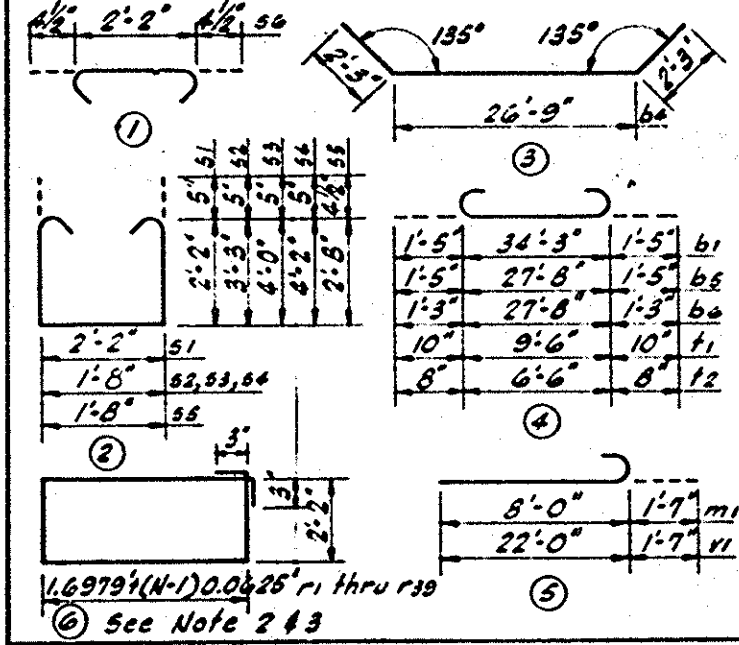
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			2		
2			3		



REINFORCING BAR SCHEDULE FOR ONE BENT

BAR	SIZE	TYPE	LENGTH	NO.	WEIG.
b1	10	4	37'-1"	7	117
b2	11	5tr	34'-3"	2	364
b3	10	5tr	26'-9"	4	166
b4	10	3	31'-3"	5	672
b5	10	4	30'-6"	4	525
b6	9	4	30'-2"	4	410
m	11	5	9'-7"	20	218
s1	5	2	7'-4"	36	275
s2	5	2	8'-10"	2	18
s3	5	2	10'-4"	2	22
s4	5	2	10'-10"	33	372
s5	4	2	7'-9"	19	98
s6	4	1	2'-11"	25	49
r1-r38	3	36	8.2292' (N-1)0.1250'	2 Ea.	301
r1-r39	3	36	8.2292' (N-1)0.1250'	2 Ea.	311
r1-r38	3	36	8.2292' (N-1)0.1250'	2 Ea.	273
v1	7	4	11'-2"	26	593
v2	6	4	7'-10"	38	447
v1	11	5	23'-7"	16	205
v2	11	5tr	22'-8"	20	209
v3	11	5tr	18'-5"	20	957

BENDING DIAGRAMS



CONCRETE VOLUME BY POUR

POUR NO.	LOCATION	CU. YD.
1	Cap.	12.8'
2	Stems & Struts	14.4'
3	Stems	13.4'
4	Footings	10.4'

BILL OF MATERIAL

LOCATION	CLASS A CONCRETE CU. YDS.	REIN. STEEL, LBS.	COEF. EMP.
Bent No 2	60.7	53,581	—
Bent No 3	51.2	51,760	—
Bent No 4	47.8	49,871	—

NOTE: 1. All bar dimensions are out-to-out.
 2. "N" refers to subnumber of bar mark.
 3. Omit bar r39 in Bent No. 2 and r36 thru r39 in Bent No. 4.
 See pages 25-44 STRUCTURE PAY RECORD Book 1

SCHEDULE OF ELEVATIONS

MARK	BENT NO 2	BENT NO 3	BENT NO 4
A	1952.00	1947.00	1947.00
B	1980.35	1986.05	1981.75
C	1991.02	1986.72	1982.42
D	1993.02	1988.72	1984.42
E	1993.27	1988.97	1984.67
F	1993.52	1989.22	1984.92

SCHEDULE OF ELEVATIONS MARK A

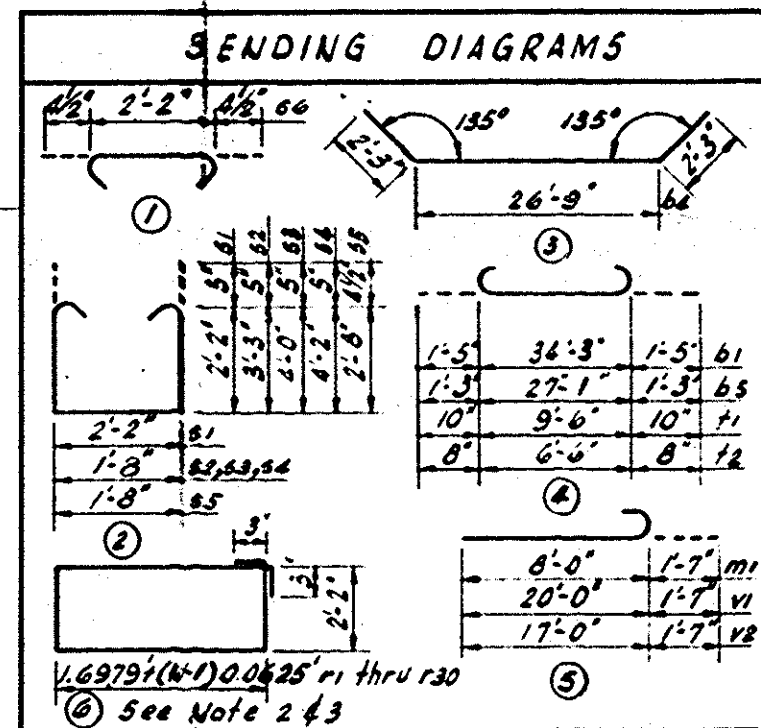
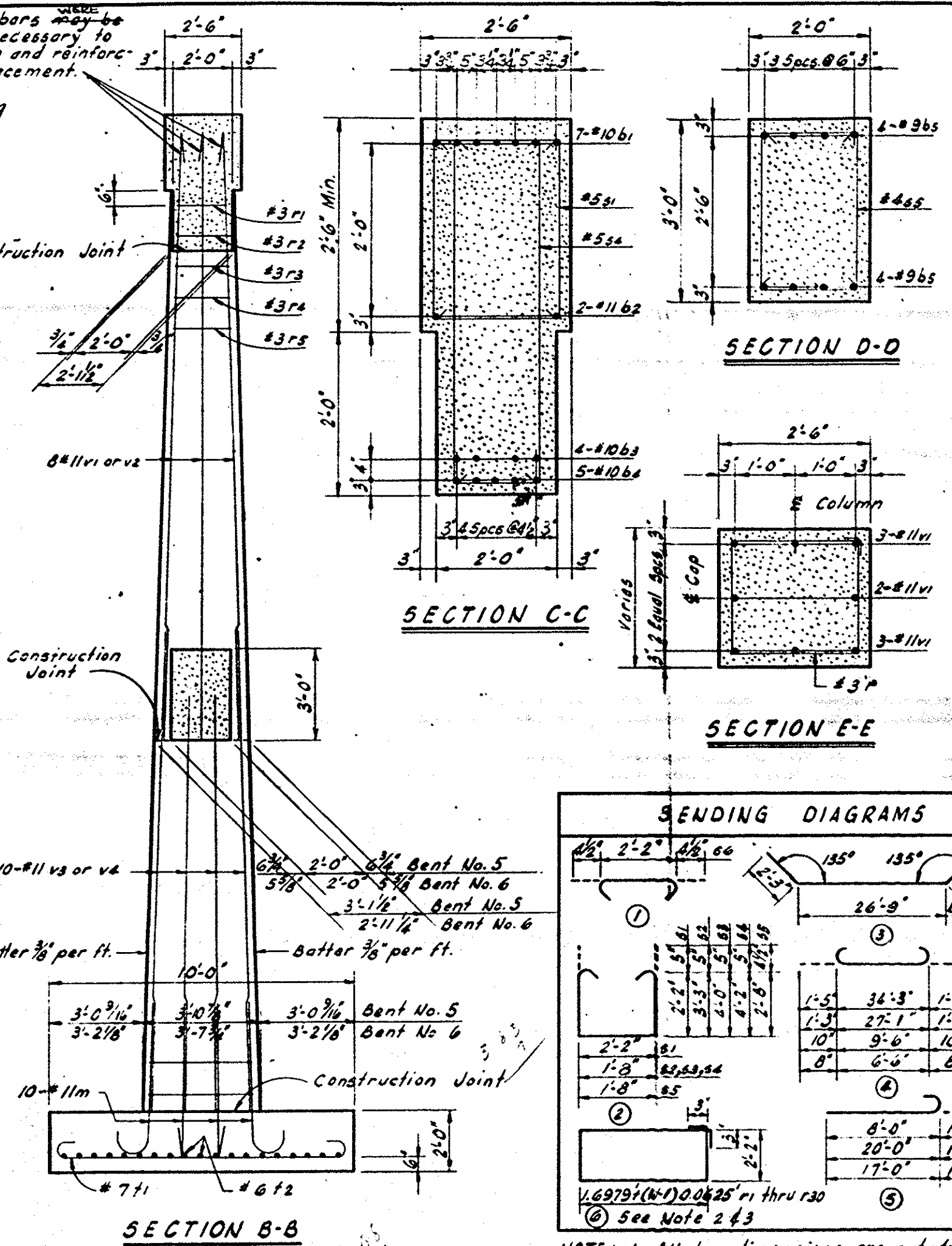
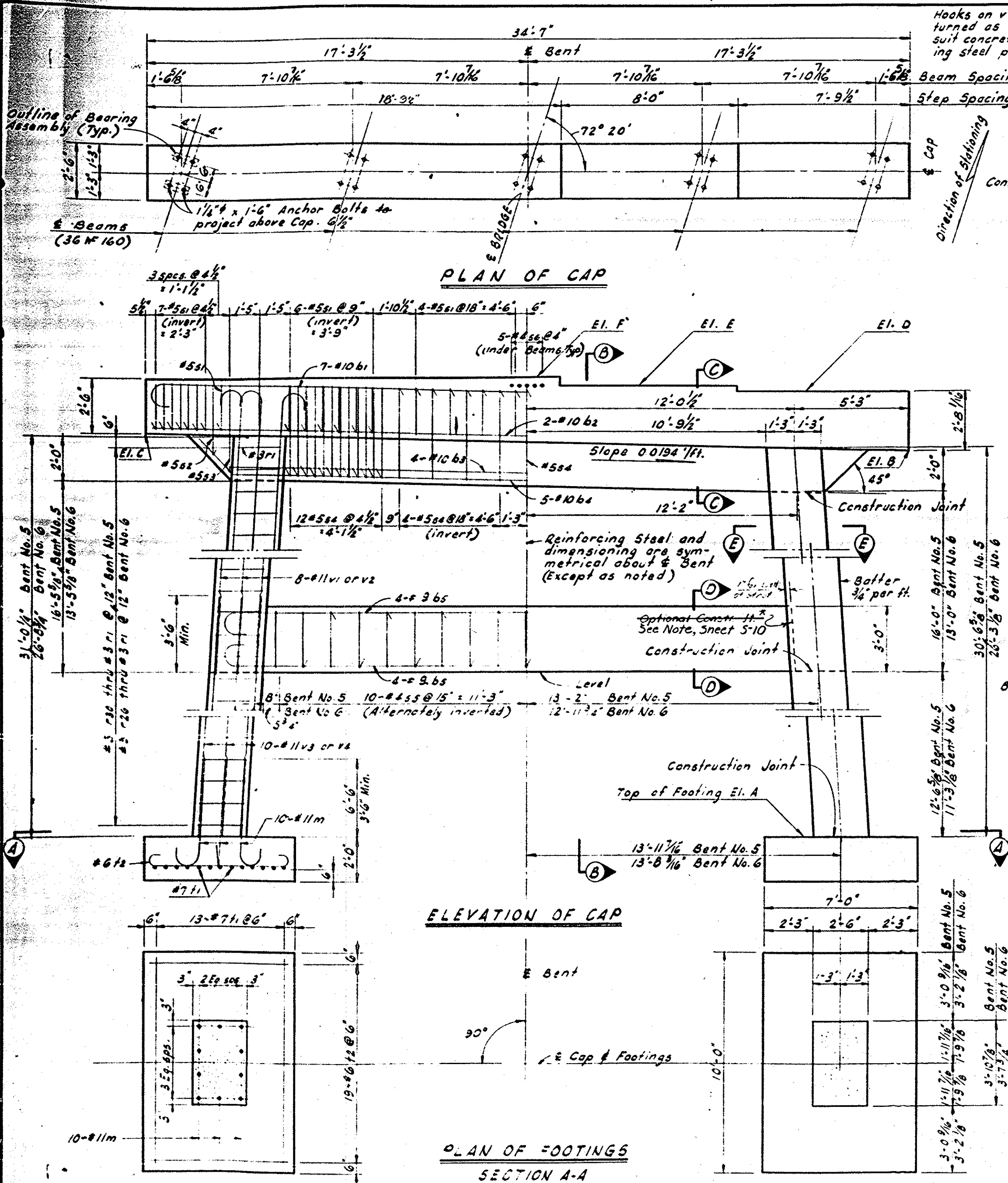
	LEFT FOOTING	RIGHT FOOTING
Bent No 2	1953.50	1955.50
Bent No 3	1949.90	1950.00
Bent No 4	1949.20	1950.00

PROJECT NO. 813026
 BUNCOMBE COUNTY
 STATION: 13+43.75

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

SUBSTRUCTURE
 BENT No 2,3,4

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



REINFORCING BAR SHEET FOR ONE BENT

BAR	SIZE	TYPE	LENGTH	NO.
b1	10	4	37'-1"	7
b2	11	5	34'-3"	2
b3	10	5	26'-9"	4
b4	10	3	31'-3"	5
b5	9	4	29'-7"	8
m	11	5	9'-7"	20
51	5	2	7'-4"	36
52	5	2	8'-10"	2
53	5	2	10'-4"	2
54	5	2	10'-10"	33
55	4	2	7'-9"	19
56	4	1	2'-11"	25
p1-r30	3	30	6.22921	1 Ea
p1-r36	3	36	6.22921	1 Ea
11	7	4	11'-2"	26
12	6	4	7'-10"	50
v1	11	5	21'-7"	16
v2	11	5	18'-7"	6
v3	11	5	16'-1"	20
v4	11	5	14'-10"	20

CONCRETE VOLUME BY PC

POUR NO.	LOCATION	BENT NO.
4	Cap	12.5
3	Stems & Strut	13.5
2	Stems	8.5
1	Footings	10.5

BILL OF MATERIAL

LOCATION	CLASS A CONCRETE CU. YDS.	REIN. STEEL LBS.
Bent No. 5	44.6	4650
Bent No. 6	48.8	4231

SCHEDULE OF ELEVATIONS

MARK	BENT NO. 5	BENT NO. 6
A	1947.99	1947.99
B	1977.45	1973.16
C	1978.12	1973.63
D	1980.12	1975.83
E	1980.37	1976.08
F	1980.62	1976.33

SCHEDULE OF ELEVATIONS MARK A

	Left Footing	Right Footing
Bent No. 5	1949.00	1949.40
Bent No. 6	1950.20	1949.30

NOTE: 1. All bar dimensions are out-to-out.
2. "N" refers to subnumber of bar mark.
3. Bent bars r27 thru r30 in Bent No. 6.

See pages 45-54 Structure Pay Record Book No. 1.

PROJECT NO. 2.830
BUNCOMBE COUNT
STATION: 13+43.0

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

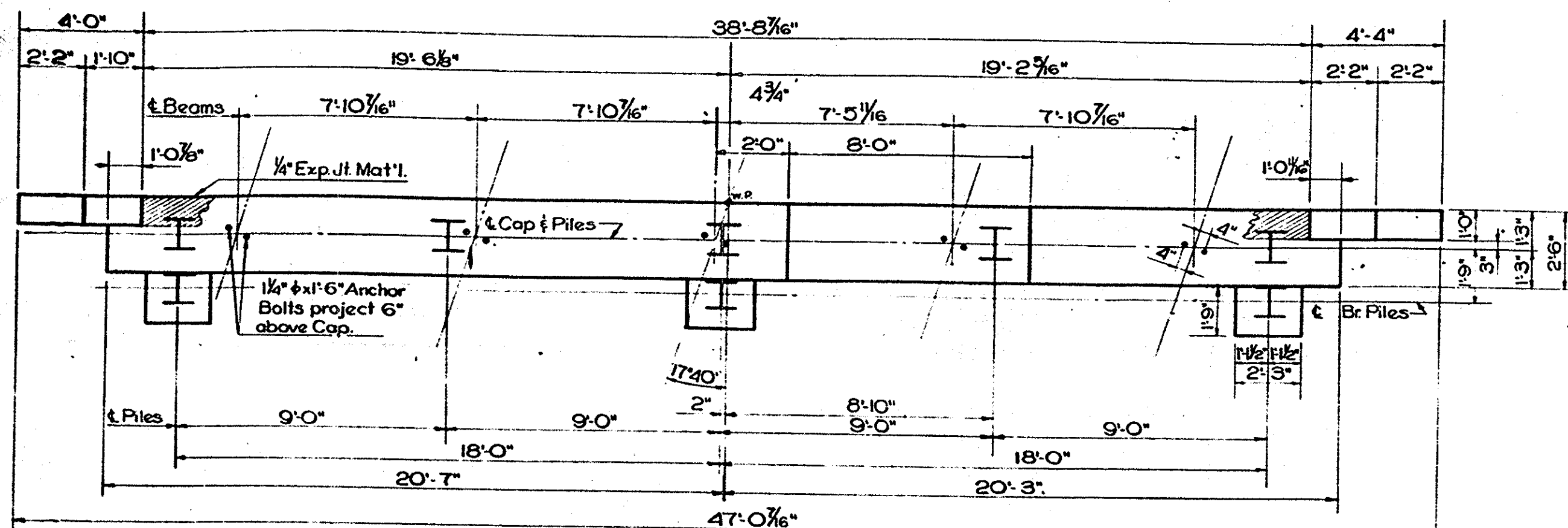
SUBSTRUCTURE
BENT No. 5 & 6

REVISIONS

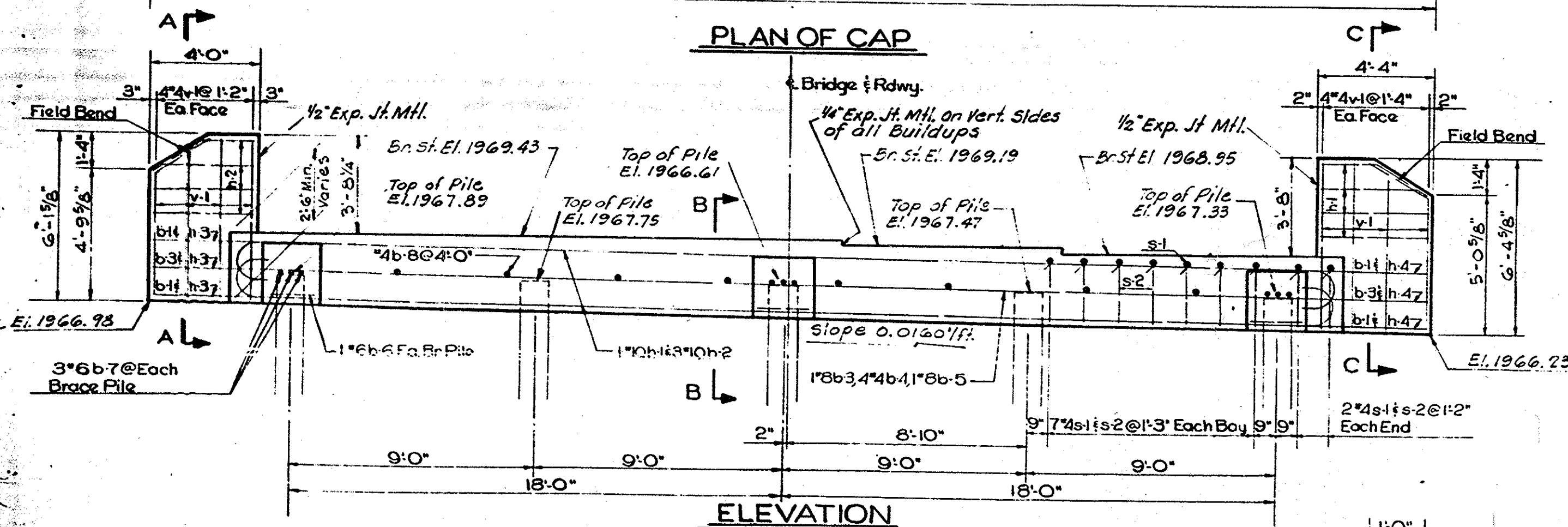
NO.	BY	DATE	NO.	BY	DATE
1			2		

SPECIAL
DESIGNED BY Eduardo J. Morales
DRAWN BY James KU
CHECKED BY R.E. Turner
DATE July 1967
DATE July 1967
DATE July 1967

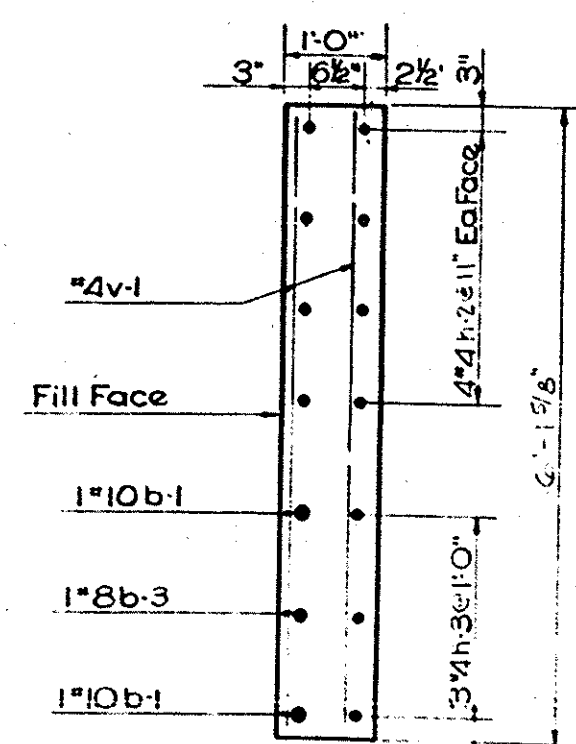
REG. ROAD DIST. NO.	STATE
3	N. C.



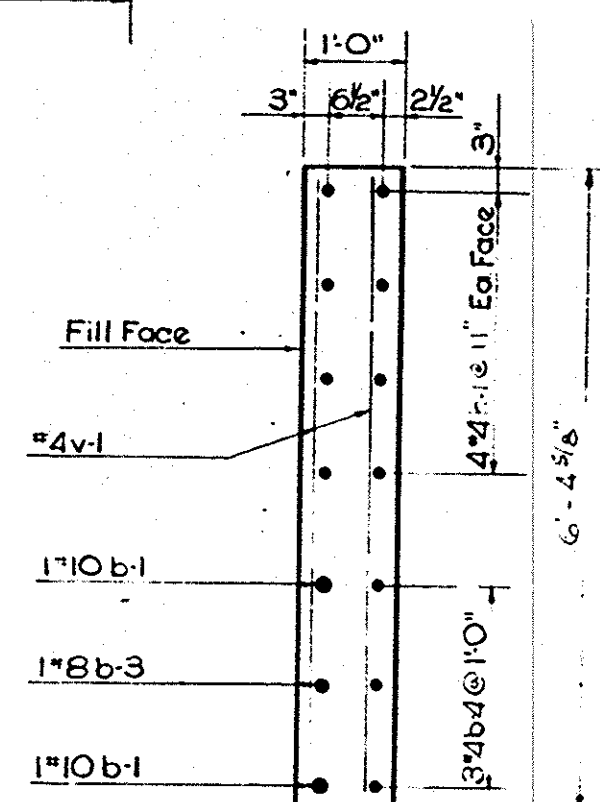
PLAN OF CAP



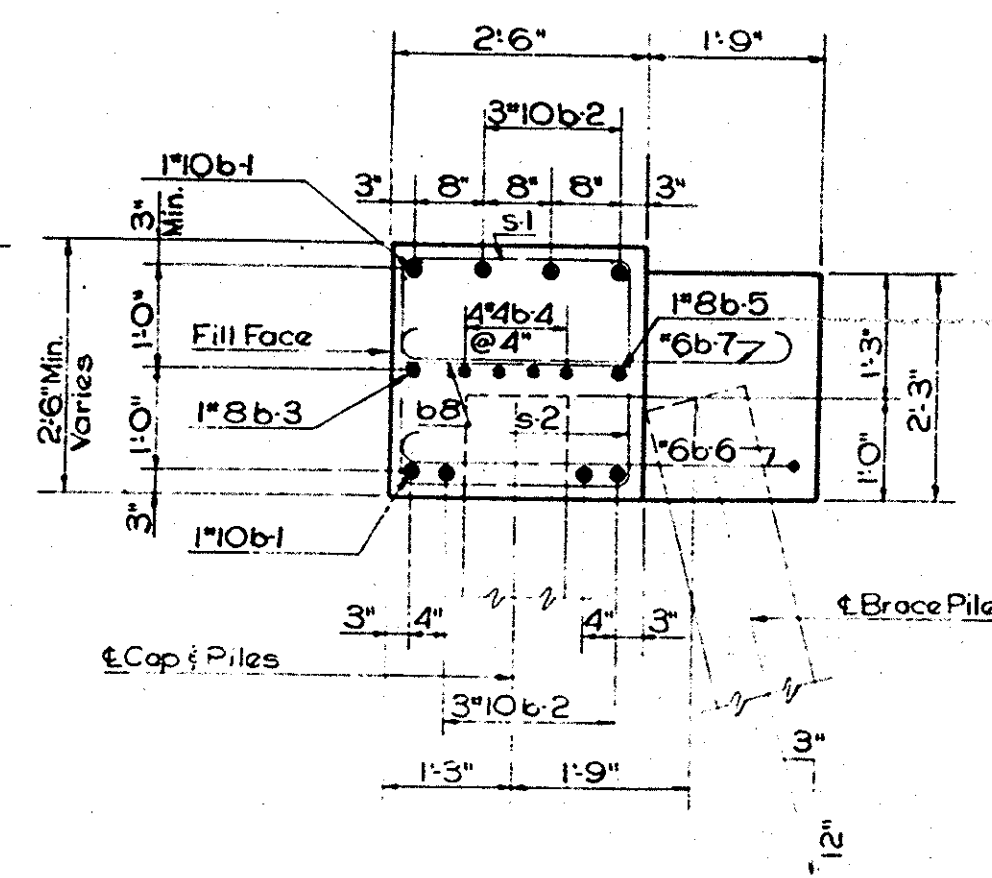
ELEVATION



SECTION A-A

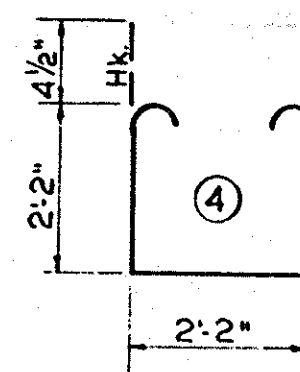
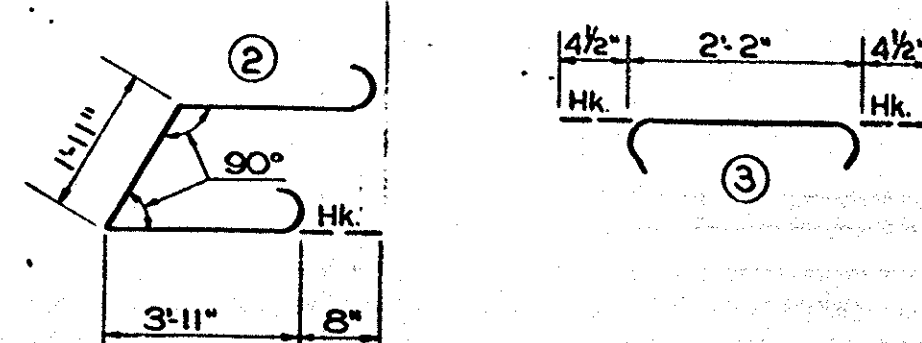
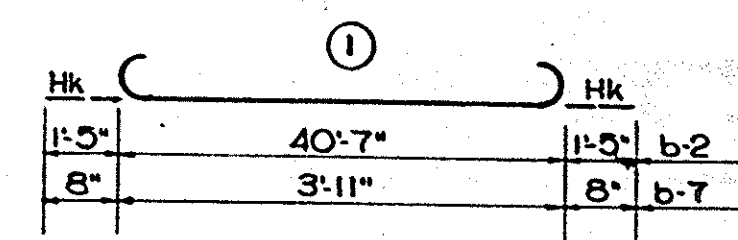


SECTION C-C



SECTION B-B

BAR DETAILS



NOTE: All dimensions in "Bar Details" are out to out of bar.

BILL OF MATRI FOR ONE RENT

Bar	No	Size	Type	Length
b-1	2	*10	Str.	46"9
b-2	6	*10	1	43"6
b-3	1	*8	Str.	46"9
b-4	8	*4	Str.	20"11
b-5	1	*8	Str.	40"11
b-6	3	*6	2	11"1
b-7	9	*6	1	5"9
b-8	11	*4	Str.	2"2
h-1	8	*4	Str.	4"4
h-2	8	*4	Str.	3"3
h-3	3	*4	Str.	4"3
h-4	3	*4	Str.	4"7
s-1	32	*4	3	2"11
s-2	32	*4	4	7"8
v-1	16	*4	Str.	5"11

Reinf Steel lbs.	234'
Class "A" Conc. Cu Yds.	16
12H53 Steel Piles	2

See pages 65-67 See
PAY RECORDED BOOK 1

PROJECT No. 9813601
BUNCOMBE COUNTY
STATION: 13+43.75

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

SUBSTRUCTURE
END BENT No. 2

REVISIONS					
NO	BY	DATE	NO	BY	DATE
1			3		
2			4		

CROSS SECTIONS - BENT NO 1

DRY EXCAVATION & EXTRA DEPTH CONCRETE

DRY EXCAVATION AREA = 115.42
EXTRA DEPTH CONC. AREA = 6.13

DRY EXCAVATION AREA = 106.53
EXTRA DEPTH CONC. AREA = 14.18

PLAN TOP FTS. ELEV. 1863.0

CONSTRUCTED
BOTTOM FTS. 162.1

0+15 Lt

Sheer for Conc.

0+15 Rt

Sheer for Conc.

CONSTRUCTED
BOTTOM FTS. 63.9

PLAN TOP FTS. ELEV. 1843.0

DRY EXCAVATION AREA = 109.60

DRY EXCAVATION AREA = 92.83

0+00 Lt

Sheer for Exc.

0+00 Rt

Sheer for Exc.

Plotted & Computed: 8-10-70 W.J.R.

Checked: 10-29-70 L.B.C.

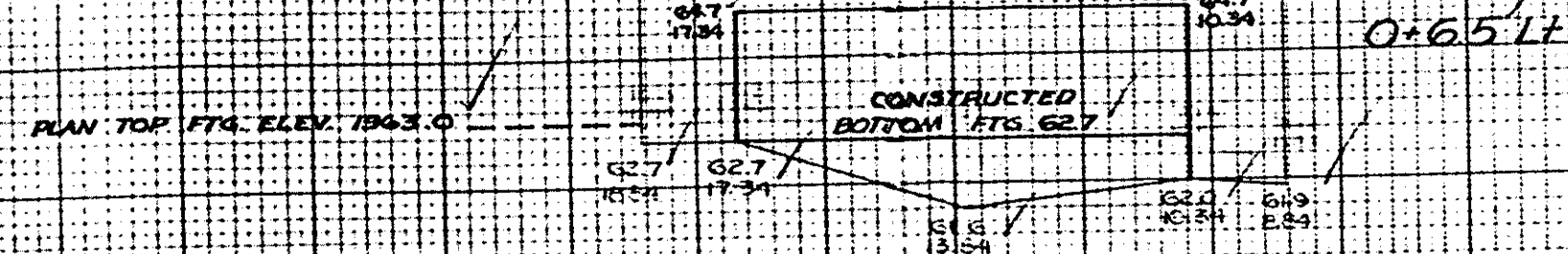
See Structure Pay Record Book 1, pages 16 & 17

BENT NO 1 CONTINUED

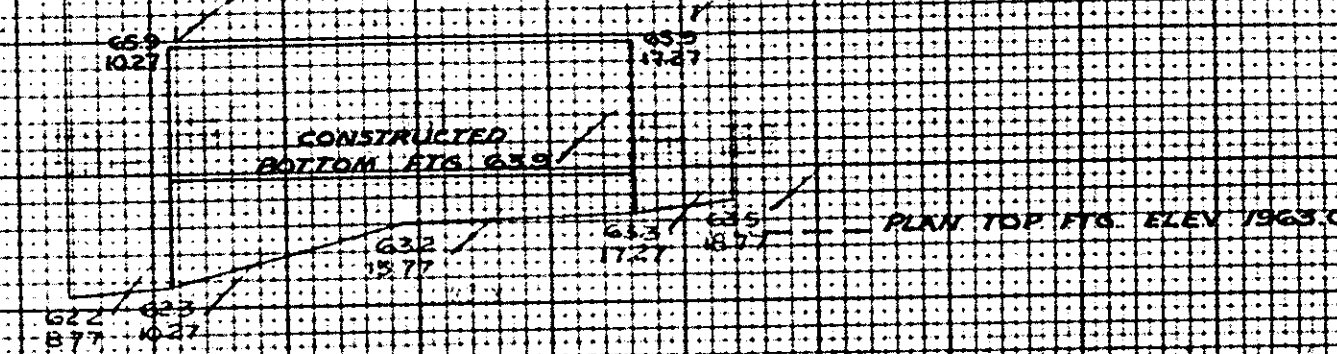
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	9-8130216	S-16	82
P.A. PROJ. NO.			

DRY EXCAVATION AREA = 115.12
EXTRA DEPTH CONC. AREA = 5.08

DRY EXCAVATION AREA = 110.04
EXTRA DEPTH CONC. AREA = 6.30

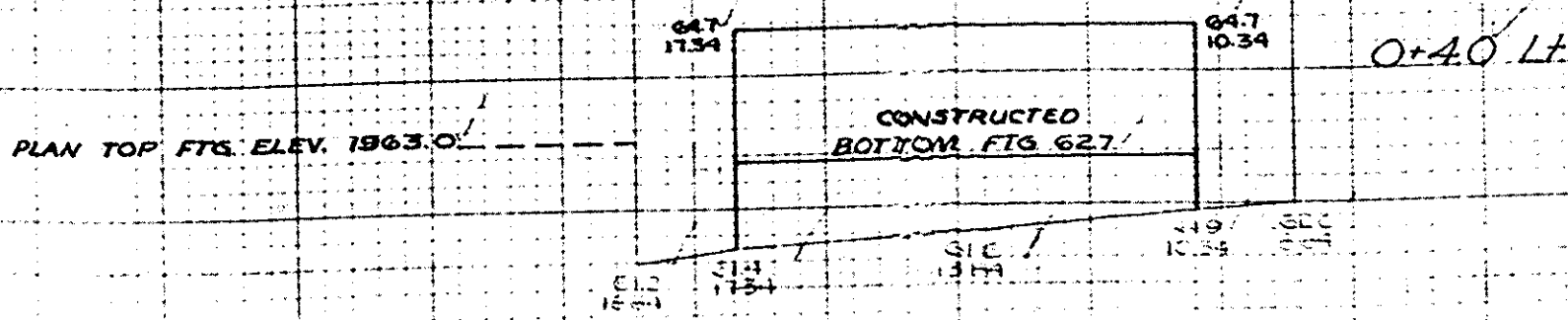


O+65 Rt

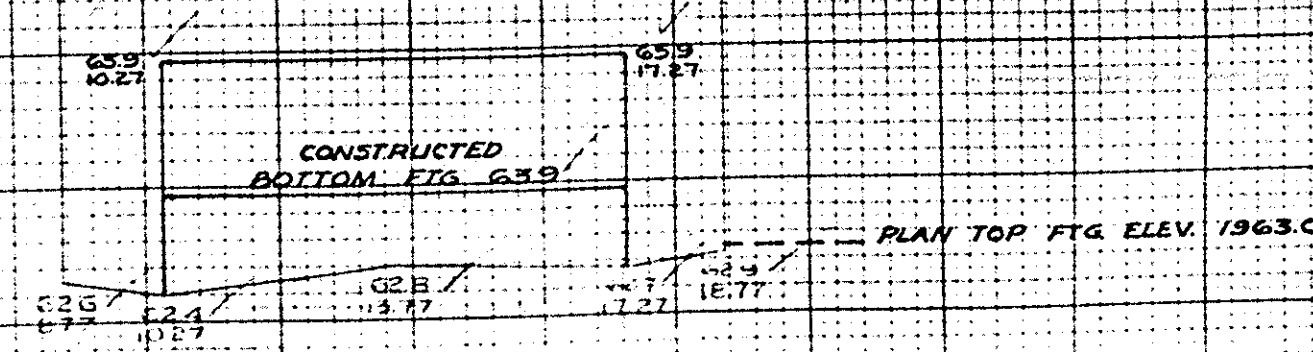


DRY EXCAVATION AREA = 123.26
EXTRA DEPTH CONC. AREA = 7.53

DRY EXCAVATION AREA = 108.16
EXTRA DEPTH CONC. AREA = 8.58



O+40 Rt



Plotted & Computed 8-11-70 WJK
Checked 10-29-70 LBC
See Structure Pay Record Book 1 pages 16 & 17

BENT NO 1 - CONTINUED

STATE	PROJECT NO.	SHEET NO.	SHEET TOTAL
N.C.	98130216	5-13	18
F.A. PROJ. NO.			

DRY EXCAVATION AREA = 13.61

DRY EXCAVATION AREA = 62.90

DRY EXCAVATION AREA = 84.41
EXTRA DEPTH CONC. AREA = 2.80

DRY EXCAVATION AREA = 85.59
EXTRA DEPTH CONC. AREA = 2.10

DRY EXCAVATION AREA = 108.16
EXTRA DEPTH CONC. AREA = 7.18

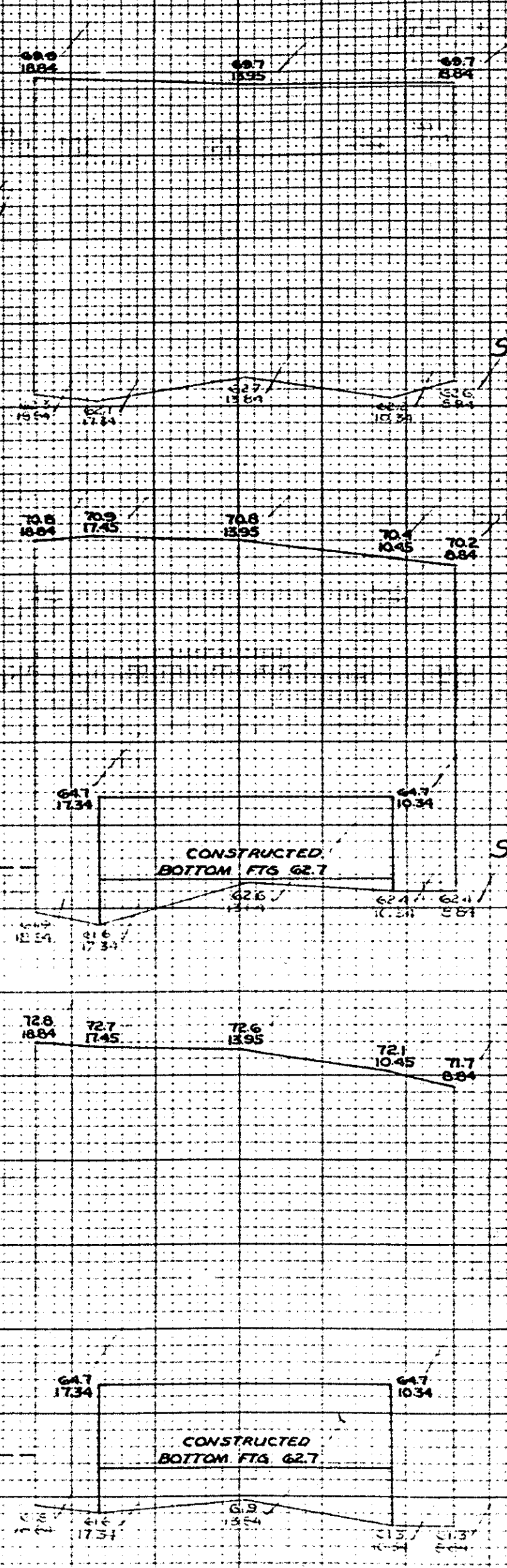
DRY EXCAVATION AREA = 100.01
EXTRA DEPTH CONC. AREA = 2.45

PLAN TOP FTG. ELEV. 1963.0

PLAN TOP FTG. ELEV. 1963.0

PLAN TOP FTG. ELEV. 1963.0

PLAN TOP FTG. ELEV. 1963.0



0+13.0 R
Sheer for Exc.

0+13.0 L
Sheer for Exc.

0+11.5 R
Sheer for Conc.

0+11.5 L
Sheer for Conc.

0+90 R

0+90 L

Plotted & Computed 8-11-70 W.J.K.
Checked 10-29-70 L.B.C. KER
See Structure Pay Record Book 1 pages 16 & 17

CROSS SECTIONS BENT NO 2

WET & DRY EXCAVATION & EXTRA DEPTH CONCRETE

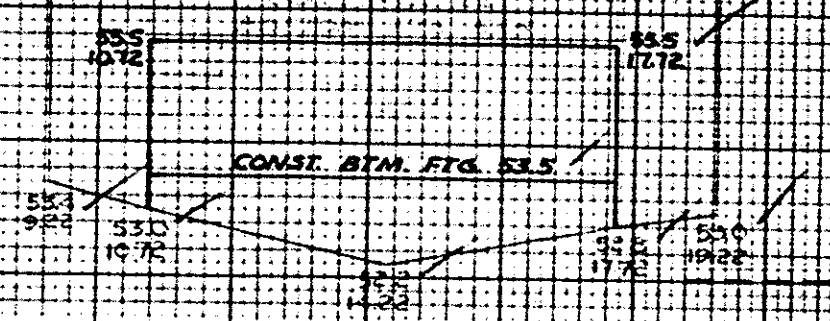
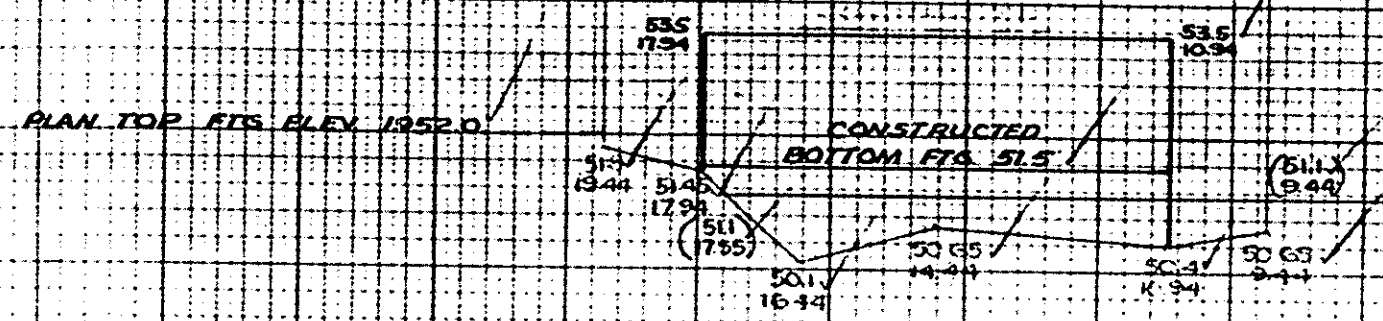
STATE	PROJECT NO.	SHEET NO.	YODA SHEET
N.C.	98130216	5-18	82
P.A. PROJ. NO.			

WET EXCAVATION AREA = 488
 DRY EXCAVATION AREA = 187.44
 EXTRA DEPTH CONC. AREA = 6.75

WET EXCAVATION AREA = 0
 DRY EXCAVATION AREA = 164.27
 EXTRA DEPTH CONC. AREA = 6.65

0+01.5 L
 Sheer for Conc.

0+01.5 R
 Sheer for Conc.

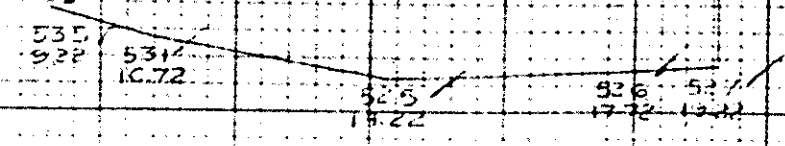
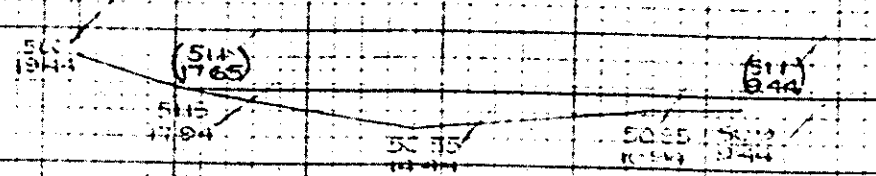


WET EXCAVATION AREA = 2.62
 DRY EXCAVATION AREA = 188.83

WET EXCAVATION AREA = 0
 DRY EXCAVATION AREA = 167.13

0+00 L
 Sheer for Exc.

0+00 R
 Sheer for Exc.



Plotted & Computed: 8-13-70 W.J.K.
 Checked: 10-29-70 L.B.C.
 See Structure Pay Record Book 1, pages 26 & 27

BENT NO 2 CONTINUED

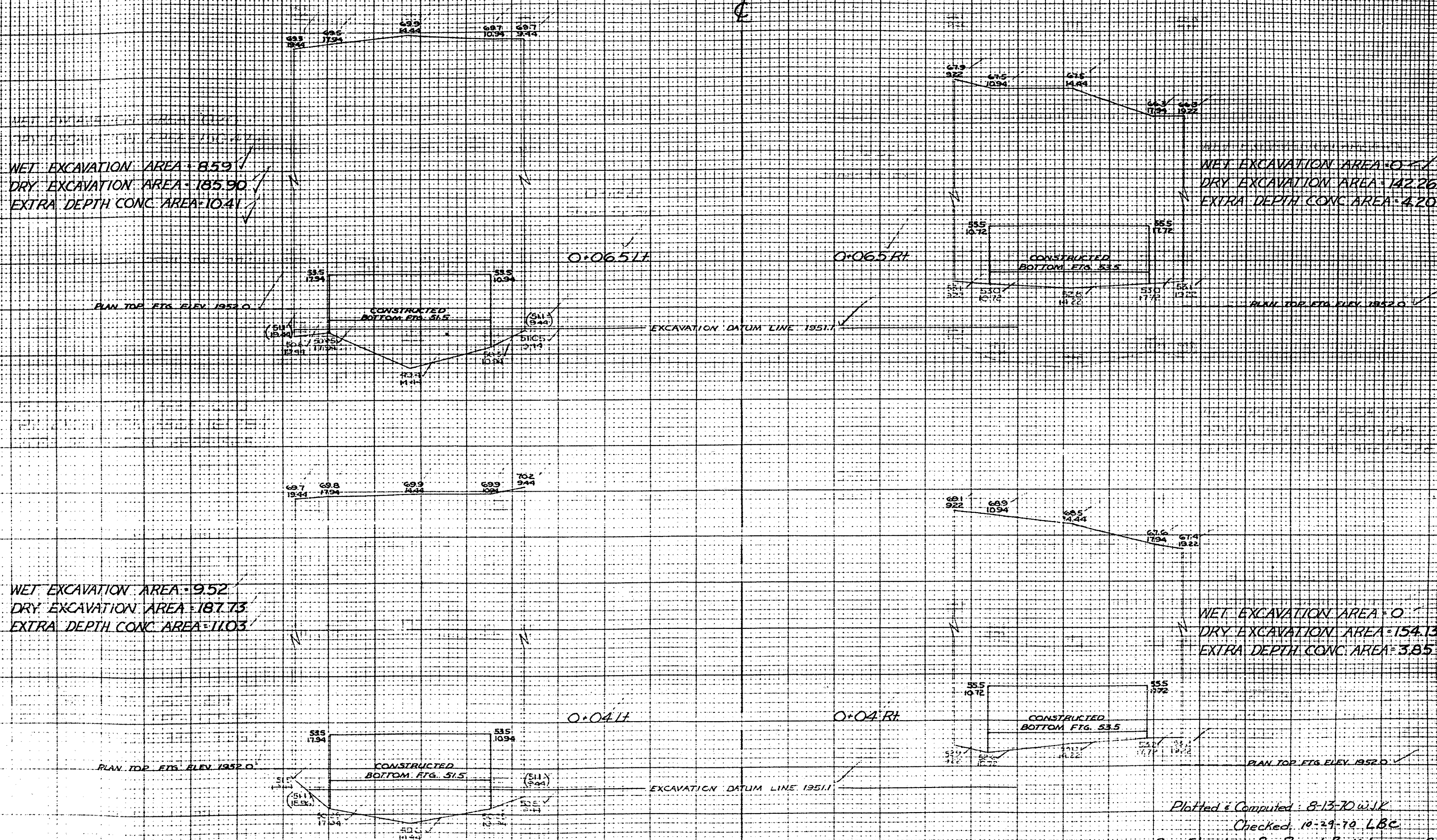
STATE	PROJECT NO.	SHEET NO.	70% SHE.
N. C.	2830216	5-19	82
F.A. PROJ. NO.			

WET EXCAVATION AREA - 8.59
 DRY EXCAVATION AREA - 185.90
 EXTRA DEPTH CONC AREA - 10.41

WET EXCAVATION AREA - 0
 DRY EXCAVATION AREA - 142.26
 EXTRA DEPTH CONC AREA - 4.20

WET EXCAVATION AREA - 9.52
 DRY EXCAVATION AREA - 187.73
 EXTRA DEPTH CONC AREA - 11.03

WET EXCAVATION AREA - 0
 DRY EXCAVATION AREA - 154.13
 EXTRA DEPTH CONC AREA - 3.85



Plotted & Computed: 8-13-70 W.J.K.
 Checked: 10-29-70 L.B.C.
 See Structure Poy Record Book 1, pages 26 & 27

BENT NO 2 - CONTINUED

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	98130216	5-20	62
F.A. PROJ. NO.			

WET EXCAVATION AREA = 0.20
 DRY EXCAVATION AREA = 150.47

WET EXCAVATION AREA = 0
 DRY EXCAVATION AREA = 95.40

WET EXCAVATION AREA = 0.93
 DRY EXCAVATION AREA = 161.79
 EXTRA DEPTH CONC AREA = 368

WET EXCAVATION AREA = 0
 DRY EXCAVATION AREA = 105.11
 EXTRA DEPTH CONC AREA = 228

WET EXCAVATION AREA = 8.18
 DRY EXCAVATION AREA = 175.95
 EXTRA DEPTH CONC AREA = 936

WET EXCAVATION AREA = 0
 DRY EXCAVATION AREA = 123.52
 EXTRA DEPTH CONC AREA = 420

See Structure By Record Book 1 pages 26 & 27
 Plotted & Computed: 8-17-70 WJK
 Checked: 10-30-70 LBC

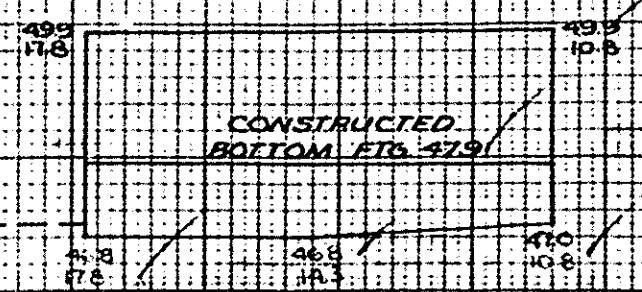
CROSS SECTIONS - BENT NO. 3

EXTRA DEPTH CONCRETE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	98130216	5-21	52
F.A. PROJ. NO.			

EXTRA DEPTH CONC. AREA = 735

PLAN TOP FTG. ELEV. 1947.0

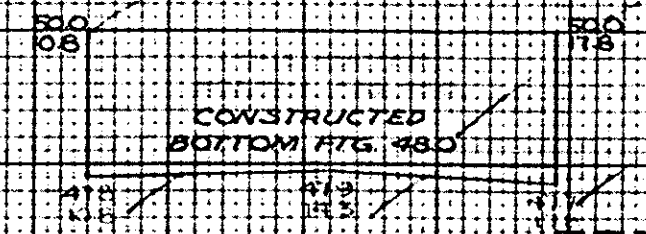


0+10.0 Lt
Sheer

0+100 Rt
Sheer

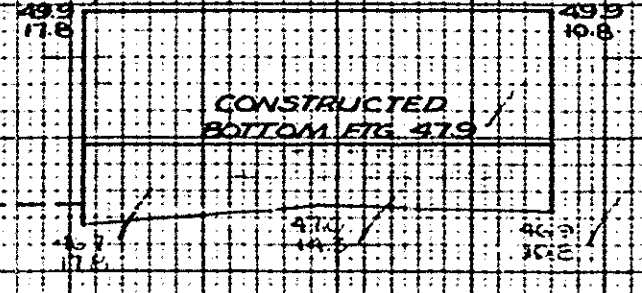
EXTRA DEPTH CONC. AREA = 123

PLAN TOP FTG. ELEV. 1947.0



EXTRA DEPTH CONC. AREA = 700

PLAN TOP FTG. ELEV. 1947.0

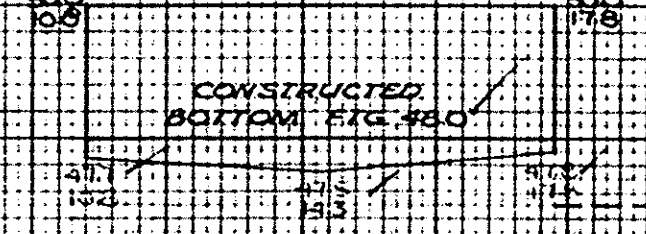


0+07.5 Lt

0+07.5 Rt

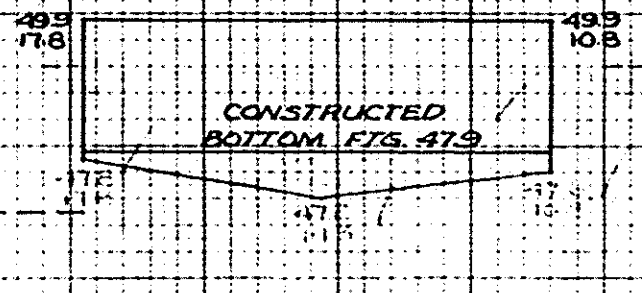
EXTRA DEPTH CONC. AREA = 263

PLAN TOP FTG. ELEV. 1947.0



EXTRA DEPTH CONC. AREA = 315

PLAN TOP FTG. ELEV. 1947.0

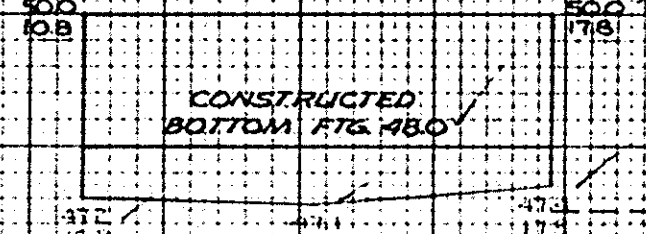


0+05.0 Lt

0+05.0 Rt

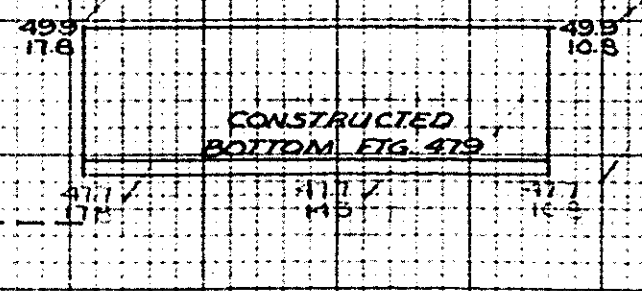
EXTRA DEPTH CONC. AREA = 560

PLAN TOP FTG. ELEV. 1947.0



EXTRA DEPTH CONC. AREA = 140

PLAN TOP FTG. ELEV. 1947.0

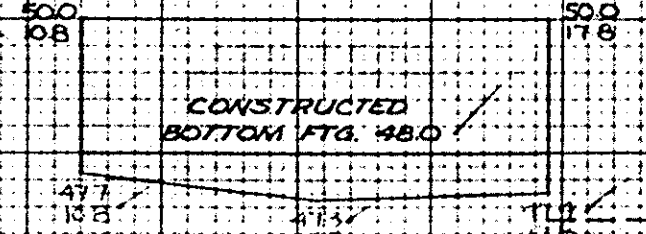


0+02.5 Lt

0+02.5 Rt

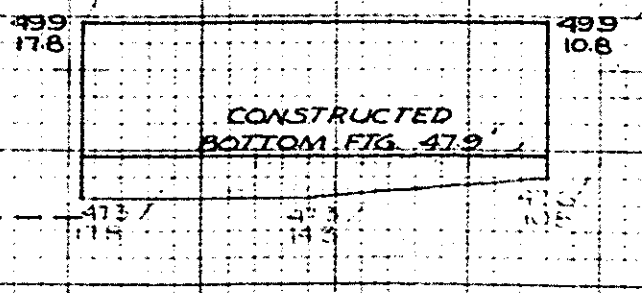
EXTRA DEPTH CONC. AREA = 403

PLAN TOP FTG. ELEV. 1947.0



EXTRA DEPTH CONC. AREA = 368

PLAN TOP FTG. ELEV. 1947.0

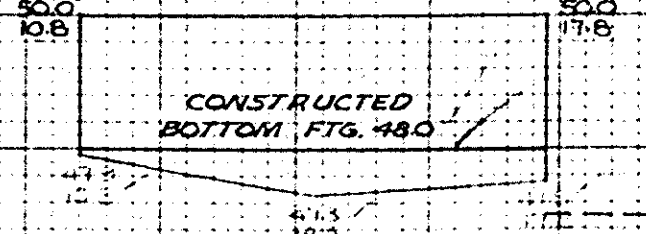


0+00.0 Lt
Sheer

0+00.0 Rt
Sheer

EXTRA DEPTH CONC. AREA = 350

PLAN TOP FTG. ELEV. 1947.0



Plotted & Computed 8-17-70 WJK
Checked 10-29-70 KCR
See Structure Pay Record Book 1 page 37

BENT NO 1-CONTINUED

NET EXCAVATION AREA 45.93
 DRY EXCAVATION AREA 62.00

NET EXCAVATION AREA 91.15
 DRY EXCAVATION AREA 66.00

EXCAVATION DATUM LINE 1951.11

EXCAVATION DATUM LINE 1951.11

0.1311
 Sheer for Exc

0.13 RT
 Sheer for Exc

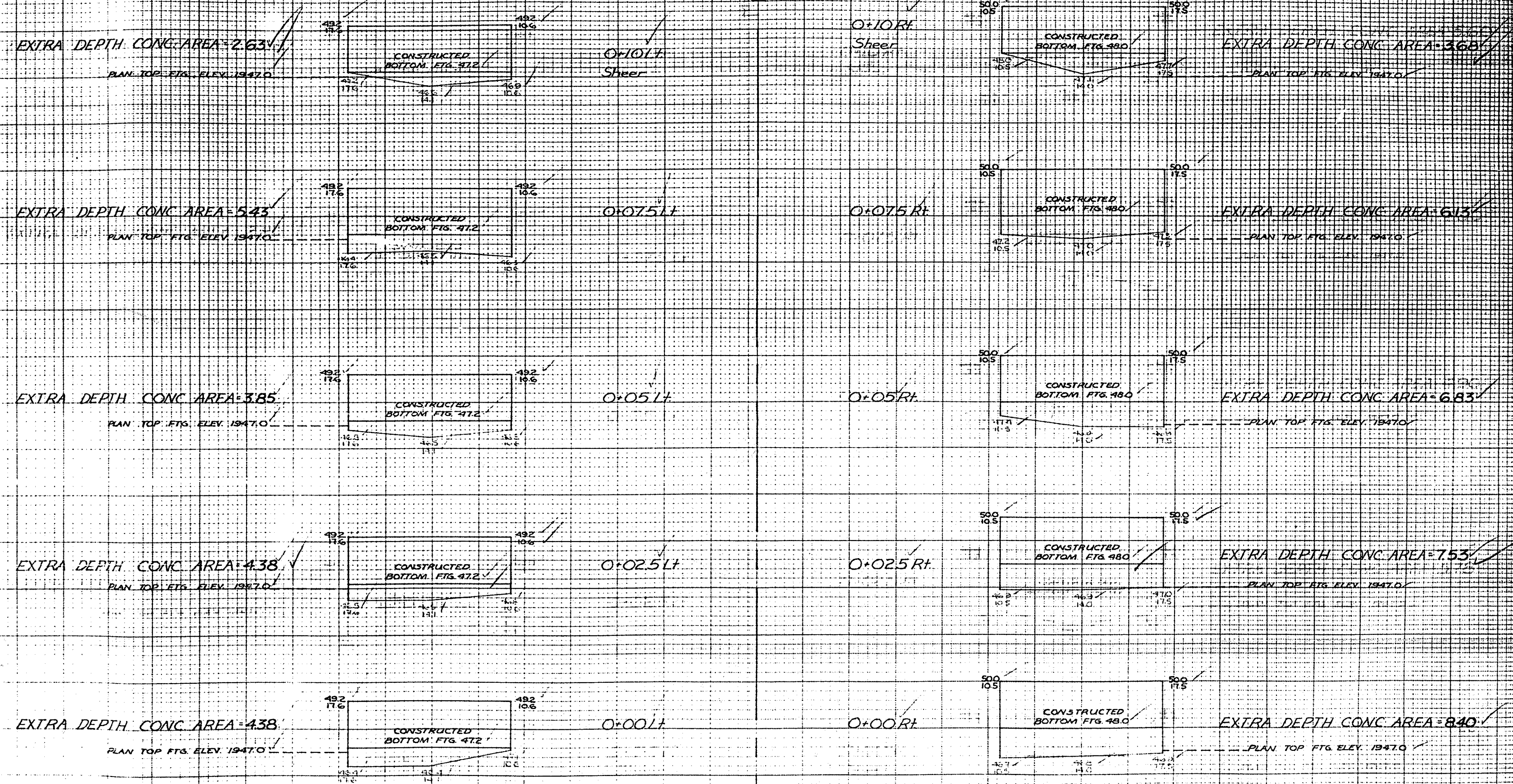
See Structure Pay Record Book 1 pages 56-57

Plotted & Computed 8-31-10 W.J.K.
 Checked 1-5-11 M.M.

CROSS SECTIONS - BENT NO. 4

EXTRA DEPTH CONCRETE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	98130216	S-22	82
F.A. PROJ. NO.			

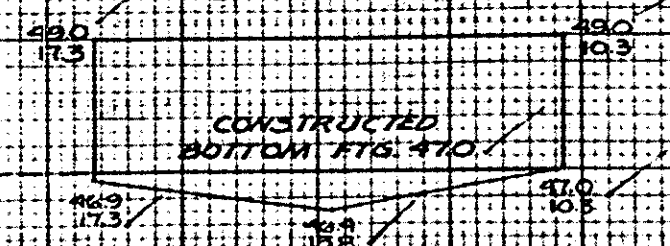


Plotted & Computed: B-18-70 LK
Checked: 10-29-70 K.R.
See Structure Pay Record Book 1 page 42

CROSS SECTIONS - BENT NO. 5 EXTRA DEPTH CONCRETE

EXTRA DEPTH CONC. AREA = 2.28

PLAN TOP FTG. ELEV. 1947.0

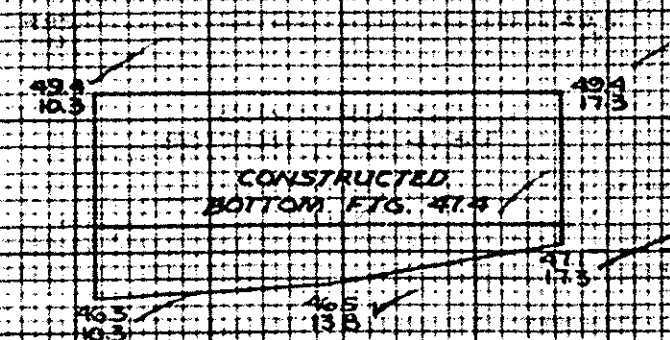


0+10.1L
Sheer

0+10.1R
Sheer

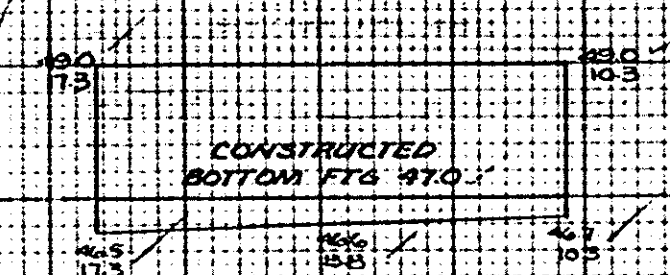
EXTRA DEPTH CONC. AREA = 5.60

PLAN TOP FTG. ELEV. 1947.0



EXTRA DEPTH CONC. AREA = 2.80

PLAN TOP FTG. ELEV. 1947.0

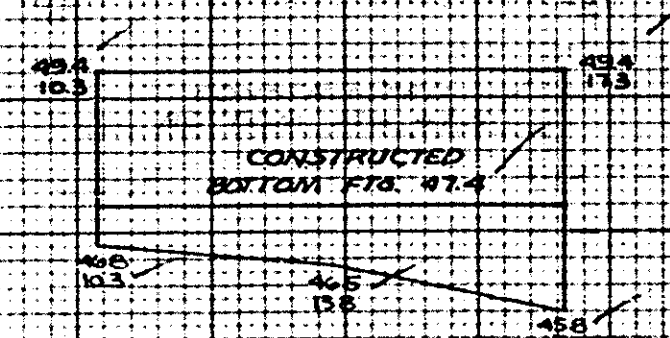


0+07.5L

0+07.5R

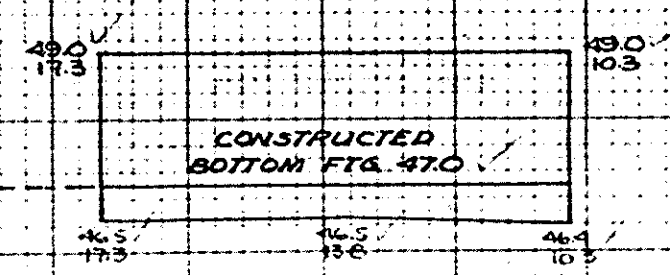
EXTRA DEPTH CONC. AREA = 7.00

PLAN TOP FTG. ELEV. 1947.0



EXTRA DEPTH CONC. AREA = 3.68

PLAN TOP FTG. ELEV. 1947.0

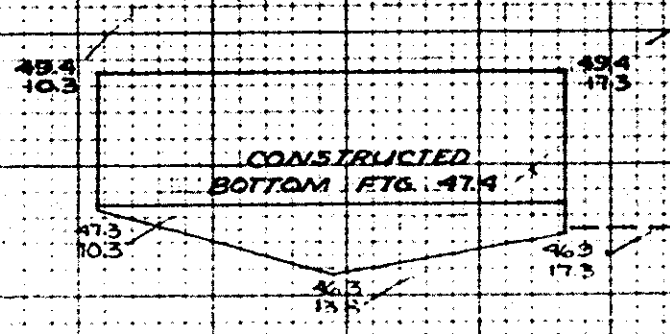


0+05L

0+05R

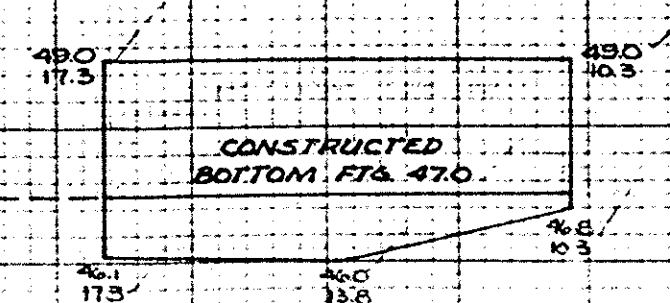
EXTRA DEPTH CONC. AREA = 4.90

PLAN TOP FTG. ELEV. 1947.0



EXTRA DEPTH CONC. AREA = 5.43

PLAN TOP FTG. ELEV. 1947.0

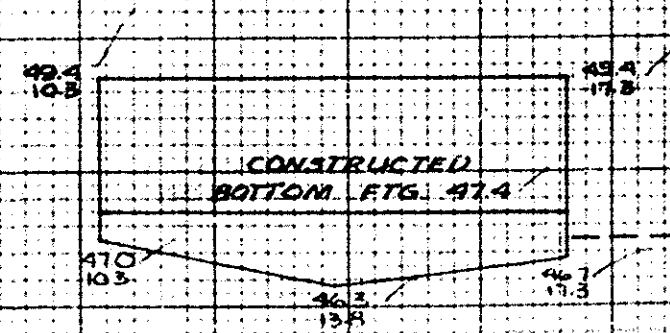


0+02.5L

0+02.5R

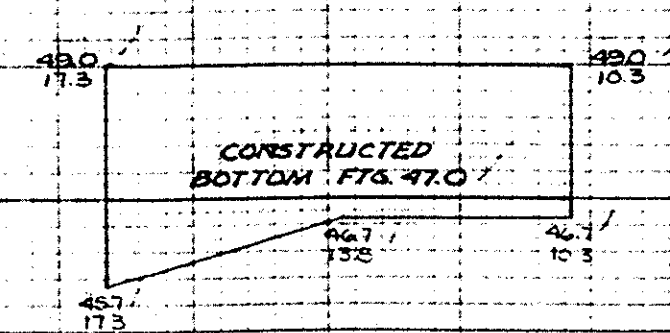
EXTRA DEPTH CONC. AREA = 5.78

PLAN TOP FTG. ELEV. 1947.0



EXTRA DEPTH CONC. AREA = 3.85

PLAN TOP FTG. ELEV. 1947.0

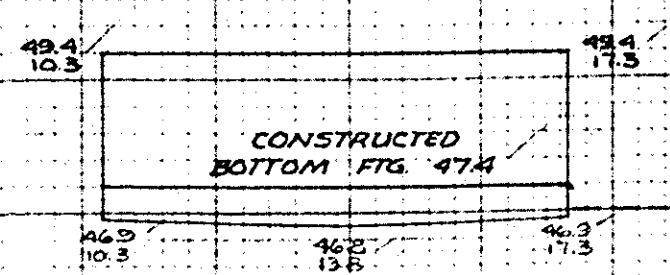


0+00L
Sheer

0+00R
Sheer

EXTRA DEPTH CONC. AREA = 3.85

PLAN TOP FTG. ELEV. 1947.0



Plotted & Computed: 9-1-70 W.J.K.
Checked: 10-29-70 K.E.R.
See Structure Pay Record Book 1 page 47

CROSS SECTIONS BENT NO 6

EXTRA DEPTH CONCRETE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	28130216	5-24	82
P.A. PROJ. NO.			

EXTRA DEPTH CONC AREA = 6.30

EXTRA DEPTH CONC AREA = 4.38

EXTRA DEPTH CONC AREA = 6.13

EXTRA DEPTH CONC AREA = 2.45

EXTRA DEPTH CONC AREA = 5.43

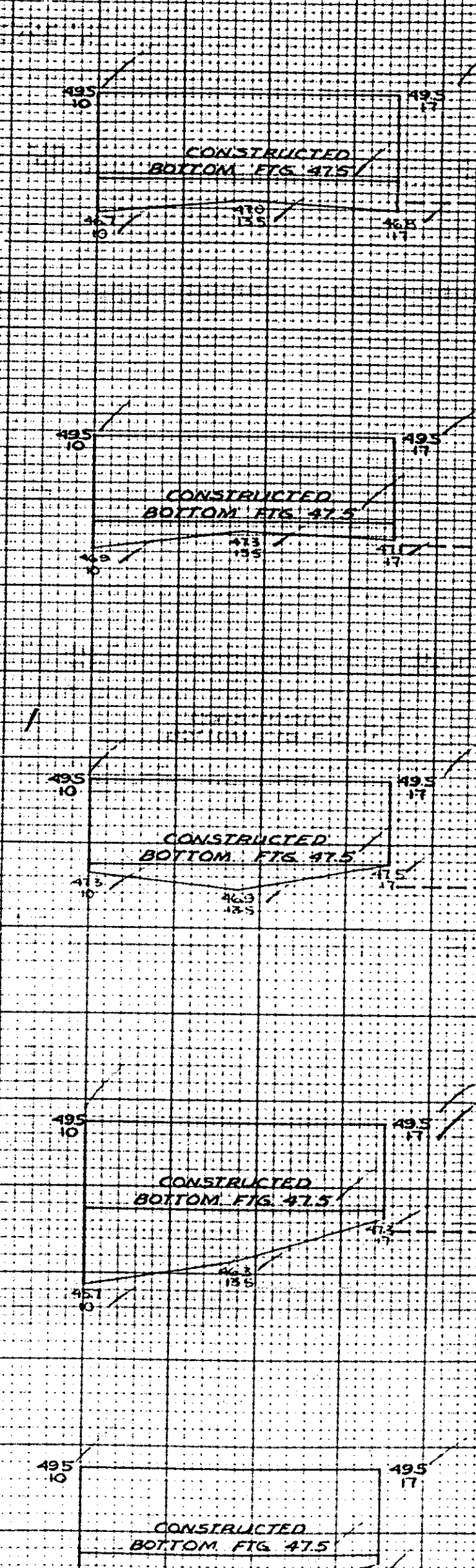
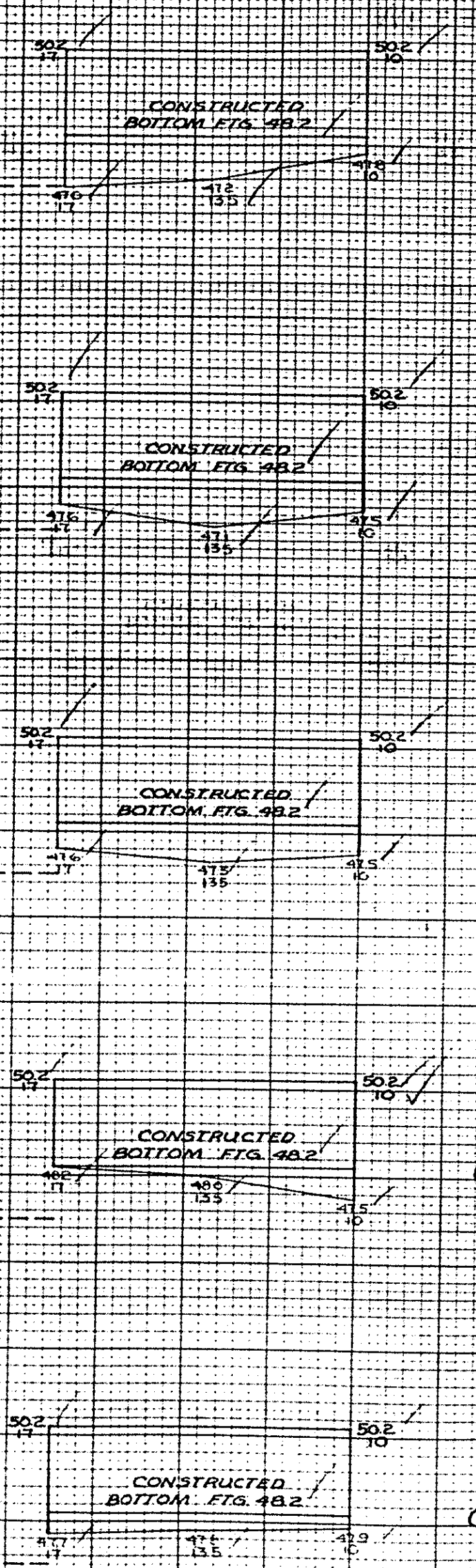
EXTRA DEPTH CONC AREA = 2.45

EXTRA DEPTH CONC AREA = 1.93

EXTRA DEPTH CONC AREA = 1.70

EXTRA DEPTH CONC AREA = 2.80

EXTRA DEPTH CONC AREA = 1.18



Plotted & Computed 11-3-70 W.S.K.
 Checked 1-5-71 M.M.
 See Structure Pay Record Book 1, page 52

CROSS SECTIONS - BENT NO 7

WET & DRY EXCAVATION & EXTRA DEPTH CONCRETE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	98130216	5-25	132
F.A. PROJ. NO.			

WET EXCAVATION AREA - 4860
 DRY EXCAVATION AREA - 6600
 EXTRA DEPTH CONC AREA - 385

WET EXCAVATION AREA - 10158
 DRY EXCAVATION AREA - 6600
 EXTRA DEPTH CONC AREA - 490

EXCAVATION DATUM LINE 1951.1

EXCAVATION DATUM LINE 1951.1

PLAN TOP FTS. ELEV. 1943.0

PLAN TOP FTS. ELEV. 1943.0

WET EXCAVATION AREA - 4300
 DRY EXCAVATION AREA - 6500

WET EXCAVATION AREA - 10210
 DRY EXCAVATION AREA - 6600

EXCAVATION DATUM LINE 1951.1

EXCAVATION DATUM LINE 1951.1

0+01.5 Lt
 Sheer for Conc.

0+01.5 Rt
 Sheer for Conc.

0+00.0 Lt
 Sheer for Exc.

See Structure Pay Record Book 1 pages 56-57

Plotted & Computed 8-31-70 W.J.R.
 Checked 10-30-70 L.B.C.

BENT NO 7 CONTINUED

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N. C.	28130216	5-26	82
P.A. PROJ. NO.			

WET EXCAVATION AREA=43.70
 DRY EXCAVATION AREA=64.00
 EXTRA DEPTH CONC AREA=4.03

WET EXCAVATION AREA=99.98
 DRY EXCAVATION AREA=65.00
 EXTRA DEPTH CONC AREA=3.15

EXCAVATION DATUM LINE 1951.1

EXCAVATION DATUM LINE 1951.1

CONSTRUCTED
 BOTTOM FTG. 46.7

CONSTRUCTED
 BOTTOM FTG. 41.5

PLAN TOP FTG. ELEV. 1943.0

PLAN TOP FTG. ELEV. 1943.0

0+06.5 Lt

0+06.5 Rt

WET EXCAVATION AREA=41.35
 DRY EXCAVATION AREA=63.50
 EXTRA DEPTH CONC AREA=2.98

WET EXCAVATION AREA=100.25
 DRY EXCAVATION AREA=65.00
 EXTRA DEPTH CONC AREA=3.33

EXCAVATION DATUM LINE 1951.1

EXCAVATION DATUM LINE 1951.1

CONSTRUCTED
 BOTTOM FTG. 46.7

CONSTRUCTED
 BOTTOM FTG. 41.5

PLAN TOP FTG. ELEV. 1943.0

PLAN TOP FTG. ELEV. 1943.0

0+04 Lt

0+04 Rt

See Structure Pay Record Book 1 pages 56 & 57

Plotted & Computed: B-31-70 WJK

Checked: 10-30-70 LBC

BENT NO 7 CONTINUED

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	98130216	5-27	32
F.A. PROJ. NO.	50216	5-28	12

WET EXCAVATION AREA=48.30
 DRY EXCAVATION AREA=63.00
 EXTRA DEPTH CONC AREA=3.33

WET EXCAVATION AREA=98.90
 DRY EXCAVATION AREA=66.50
 EXTRA DEPTH CONC AREA=2.45

EXCAVATION DATUM LINE 1951.1

EXCAVATION DATUM LINE 1951.1

PLAN TOP FTG. ELEV. 1943.0

PLAN TOP FTG. ELEV. 1943.0

0+11.5 Lt
 Sheer. for Conc.

0+11.5 Rt
 Sheer. for Conc.

WET EXCAVATION AREA=50.18
 DRY EXCAVATION AREA=64.00
 EXTRA DEPTH CONC AREA=4.38

WET EXCAVATION AREA=102.38
 DRY EXCAVATION AREA=64.50
 EXTRA DEPTH CONC AREA=5.25

EXCAVATION DATUM LINE 1951.1

EXCAVATION DATUM LINE 1951.1

PLAN TOP FTG. ELEV. 1943.0

PLAN TOP FTG. ELEV. 1943.0

0+09 Lt

0+09 Rt

See Structure By Record Book 1 pages 56 & 57

Plotted & Computed 8-31-10 DJV

Checked 1-5-71 MW