

NOTE:
 This bridge to be built on vertical and horizontal curve and super-elevated as shown on plans. The handrails, roadway and sidewalk slabs and curbs shall conform to the vertical and horizontal curves. The girders shall conform to the vertical curve. No allowance has been made for the settlement of individual spans, which should be provided for in addition to the elevations given. After the falsework has been removed the finished structure shall have the elevations shown.

GENERAL NOTE:
 Class A Concrete to be used throughout. Maximum size of coarse aggregate to be 1" except in handrails above top of curbs. Max. size of coarse aggregate in handrails to be 3/4". No construction joints will be permitted except as shown on plans. All corners to be chamfered as shown on plans. All reinforcing steel to be deformed bars. No splices of reinforcement shall be permitted except as shown on plans. The foundation data and all elevations of ground line and water surfaces given are believed to be correct and are given for the convenience of bidders, but the State Highway and Public Works Comm. assumes no responsibility for nor guarantees as correct any of the information given. See Specs. All materials and workmanship as per the Specs. of the N.C. State Highway and Public Works Commission.
 16" Piles to be driven to a minimum bearing capacity of 35 tons. 20" Piles to be driven to a minimum bearing capacity of 42 tons.

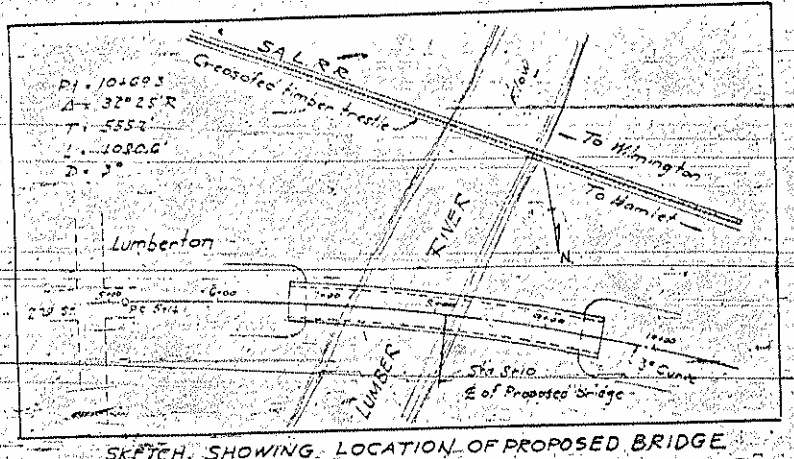
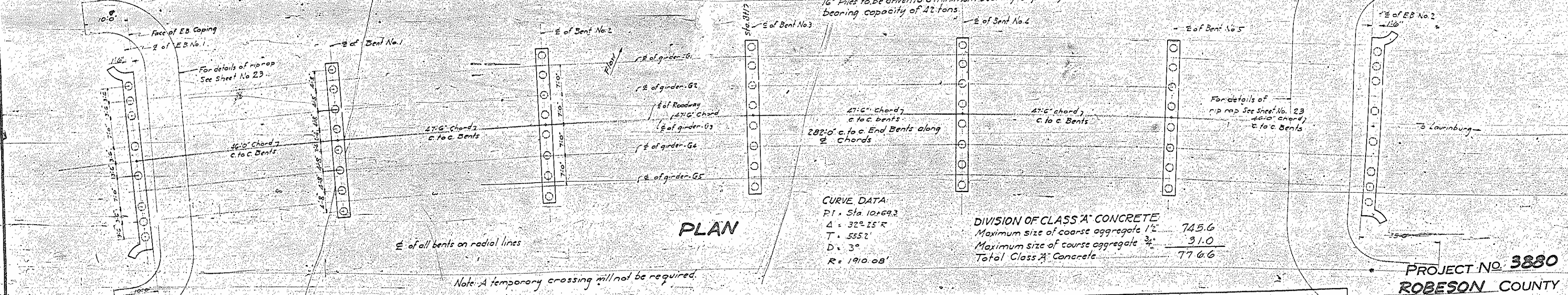


TABLE OF BRIDGE SEAT ELEVATIONS

	GIRDER				
	G1	G2	G3	G4	G5
End Bent No. 1	486.80	486.65	486.51	486.36	486.22
Bent No. 1	487.13	486.99	486.84	486.69	486.55
Bent No. 2	487.36	487.22	487.07	486.92	486.78
Bent No. 3	487.43	487.29	487.14	486.99	486.85
Bent No. 4	487.36	487.22	487.07	486.92	486.78
Bent No. 5	487.13	486.99	486.84	486.69	486.55
End Bent No. 2	486.80	486.65	486.51	486.36	486.22

TOTAL BILL OF MATERIAL

Span	Class A Conc. Cu Yds	Reinforcing Steel - lbs	Conc. Mean Surf. Sq. Yds	Plates & Bolts - lbs	Illuminating Stds. No.	Precast Piles		R.C. Riprap Sq. Yds	Castings & Struct. Steel	Unloaded Test Piles - No.
						7-4"	7-8"			
Span A	113.3	25457	145.4	118	—	—	—	—	—	—
Span B	113.5	25645	147.5	118	—	—	—	—	—	—
Span C	112.9	25769	146.2	118	2	—	—	—	—	22/2
Span D	112.3	25732	146.2	118	2	—	—	—	—	22/3
Span E	113.5	25645	147.5	118	—	—	—	—	—	—
Span F	113.3	25457	145.4	118	—	—	—	—	—	—
End Bent No. 1	164	1700	—	—	2	8	—	—	—	—
End Bent No. 2	164	1700	—	—	2	8	—	—	—	—
Bent No. 1	130	1986	—	118	—	8	—	—	—	—
Bent No. 2	130	1986	—	118	—	8	—	—	—	—
Bent No. 3	130	1986	—	118	—	8	—	—	—	—
Bent No. 4	130	1986	—	118	—	8	—	—	—	—
Bent No. 5	130	1986	—	118	—	8	—	—	—	—
Precast Piles	—	24626	—	—	—	—	—	—	—	—
Totals	776.6	121,522	878.2	1449	8	16	40	375	4425	3

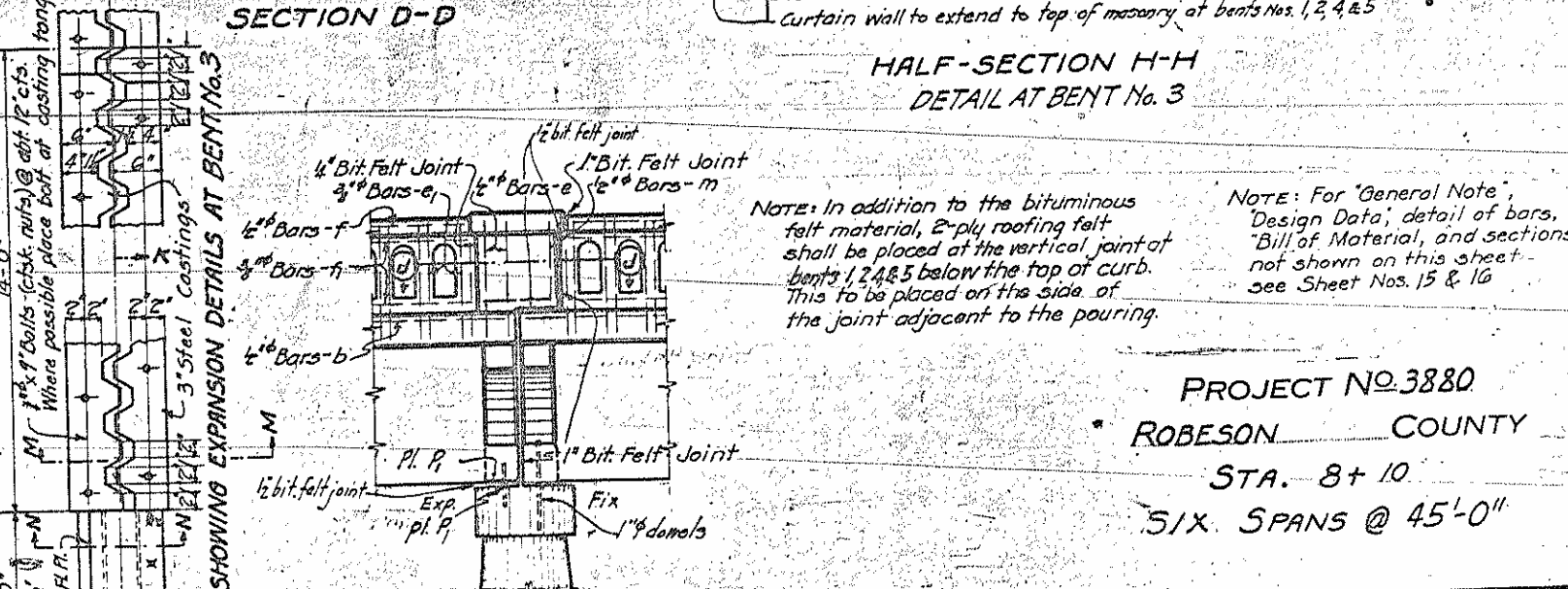
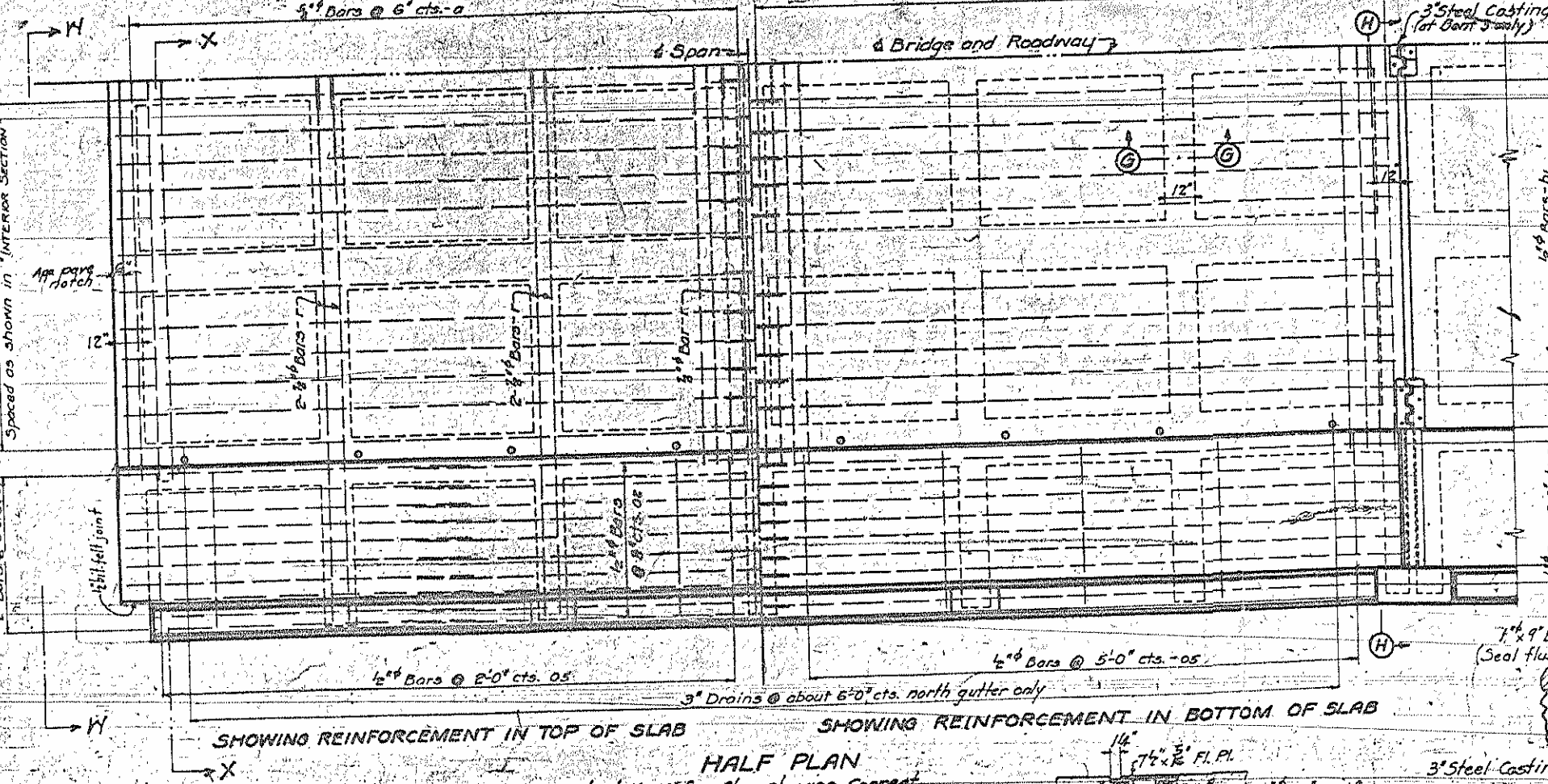
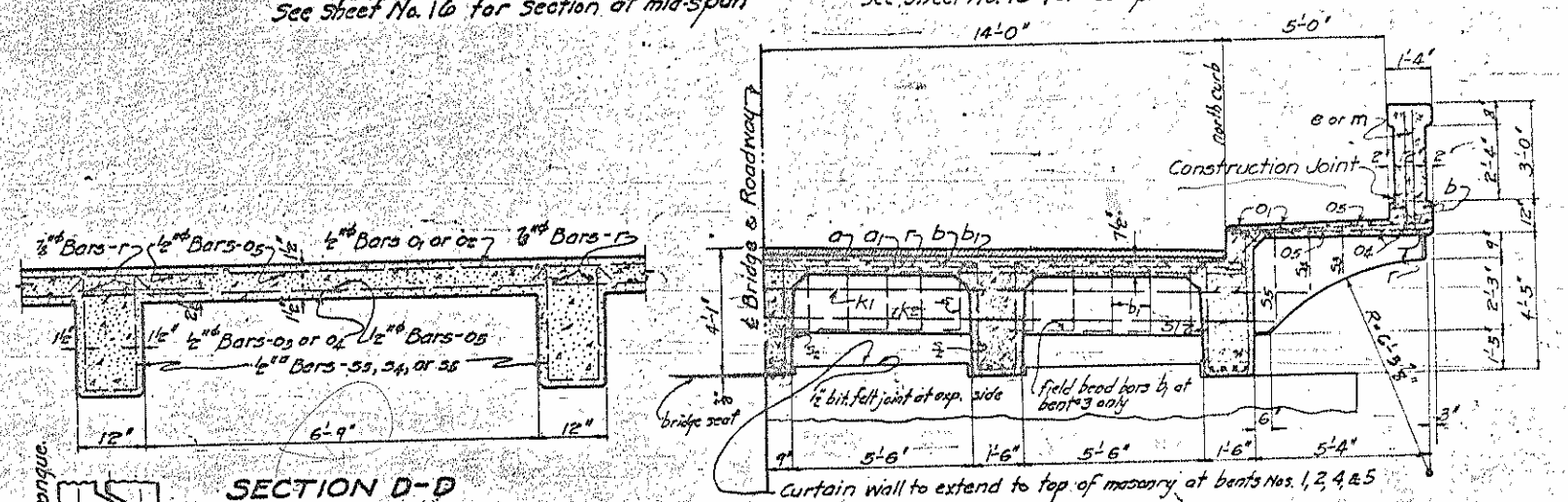
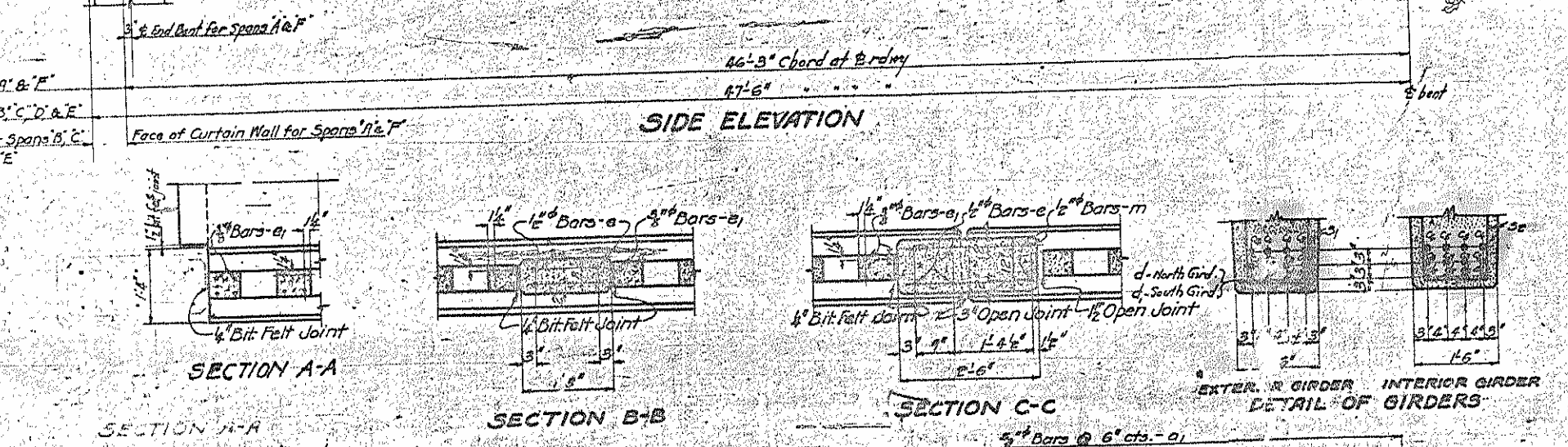
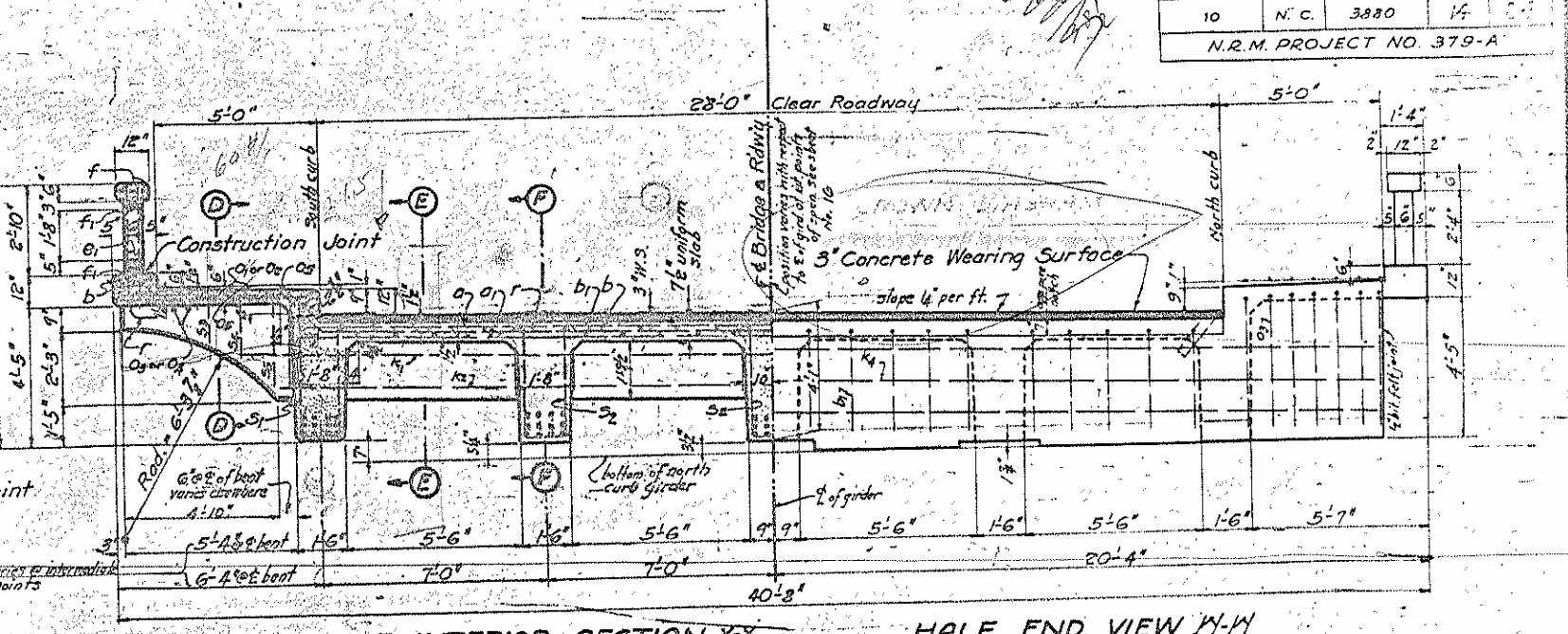
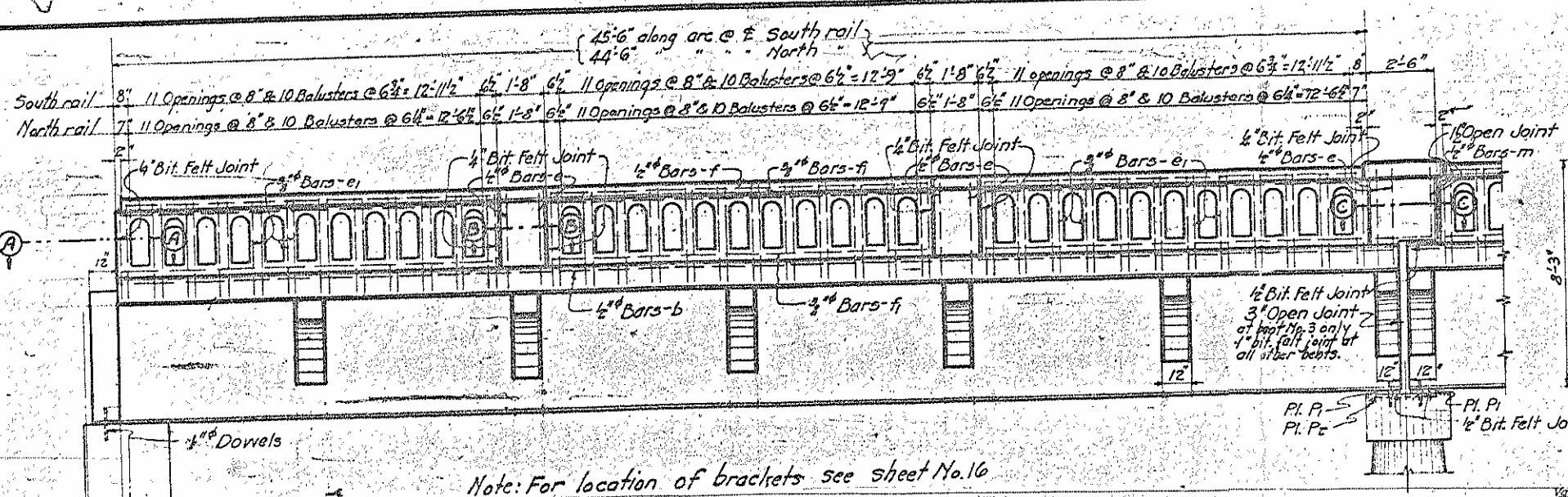
PROJECT NO. 3880
 ROBESON COUNTY

STATION 8+10
 STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 BALDWIN
GENERAL DRAWING
 FOR
LUMBER RIVER BRIDGE
 OVER
LUMBER RIVER
 LUMBERTON N.C.
 FEB. 1934
 SUBMITTED BY: [Signature]
 APPROVED BY: [Signature]
 PLAN NO. 78-133
 1st-22
 1934

Reel 27
 Pos 17
 41-46-85

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.
10	N. C.	3880	14

N.R.M. PROJECT NO. 379-A



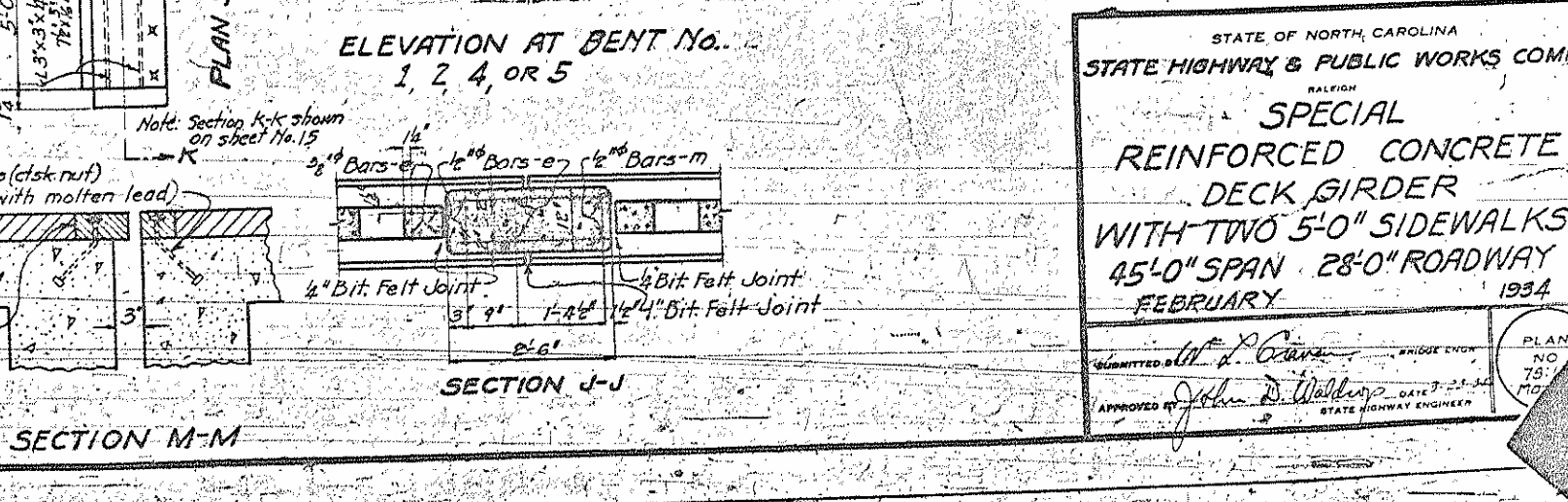
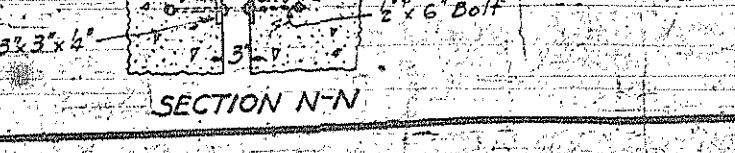
NOTE: In addition to the bituminous felt material, 2-ply roofing felt shall be placed at the vertical joint at bent nos. 1, 2, 4 & 5 below the top of curb. This to be placed on the side of the joint adjacent to the pouring.

NOTE: For "General Note, Design Data," detail of bars, "Bill of Material, and sections not shown on this sheet see Sheet Nos. 15 & 16.

PROJECT NO. 3880
 ROBESON COUNTY
 STA. 8+10
 SIX SPANS @ 45'-0"

STATE OF NORTH CAROLINA
 STATE HIGHWAY & PUBLIC WORKS COMM.
 SPECIAL
 REINFORCED CONCRETE
 DECK GIRDER
 WITH TWO 5'-0" SIDEWALKS
 45'-0" SPAN 28'-0" ROADWAY
 FEBRUARY 1934

SPECIAL /
 DESIGNED BY: [Signature]
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: [Date]
 DATE: [Date]

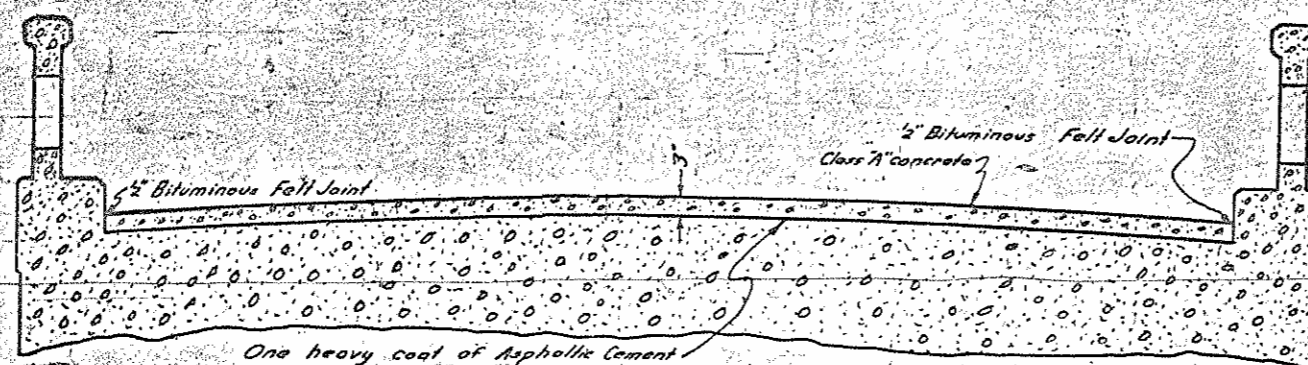


EXT 1/40
 INT 2-65
 2-66
 2-67
 2-68
 4-d-e

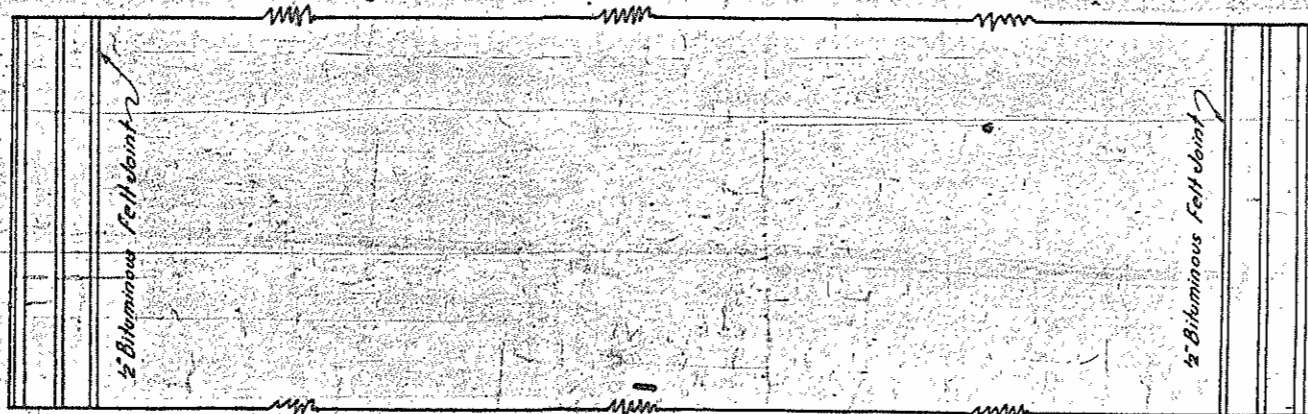
APPROVED BY: [Signature]
 DATE: [Date]
 STATE HIGHWAY ENGINEER

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	N. C.	3880	17	3

N.R.M. Proj. No. 379



SECTION THRU BRIDGE



PLAN

PLAIN CONCRETE OR REINFORCED CONCRETE PAVEMENTS
GRADED TOPSOIL, SANDCLAY, GRAVEL, SHALE, WATER-BOUND OR BITUMINOUS MACADAM ROADS

The wearing surface of the bridge shall consist of 2" of Class A concrete. See Specifications.
The top of the floor slab shall be coated with a heavy coat of asphaltic cement applied hot before the wearing surface is laid.
A 1/2" bituminous felt joint shall be placed between the curbs and the wearing surface. A 1" bituminous felt joint shall be placed at all piers and abutments parallel to the face thereof. The joint shall be cut to the crown of roadway and shall not be in more than two pieces. The wearing surface shall be hand finished in accordance with the Specifications. Payment will be made at the contract unit price for wearing surface. All material and workmanship as per specifications of the N. C. State Highway and Public Works Commission.

PROJECT NO. 3880
ROBESON COUNTY
STATION 8+10

STATE OF NORTH CAROLINA
STATE HIGHWAY & PUBLIC WORKS COMMISSION

SKETCH SHOWING
STANDARD DETAILS
FOR
CONTINUING ROAD SURFACING
ACROSS
REINFORCED CONCRETE BRIDGES
APRIL 1932

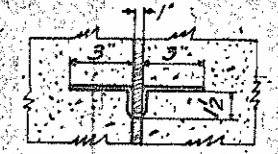
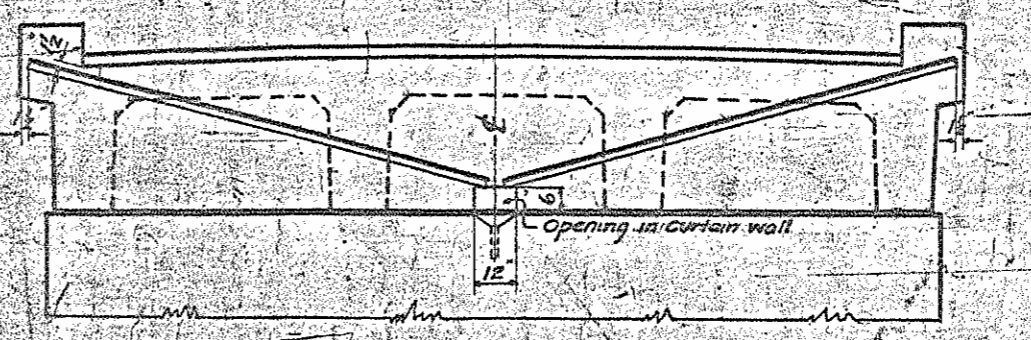
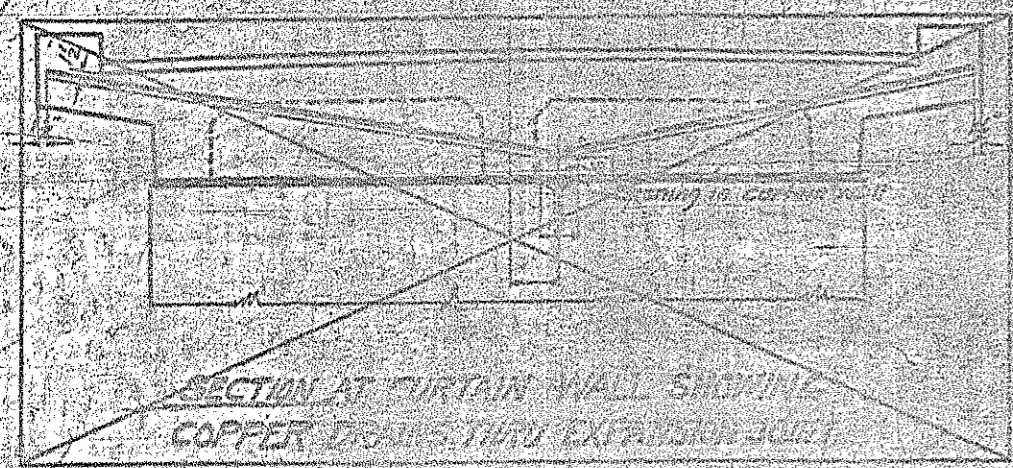
DESIGNED BY: W. L. ...
SUPERVISOR: L. R. ...

PLAN NO. 18122

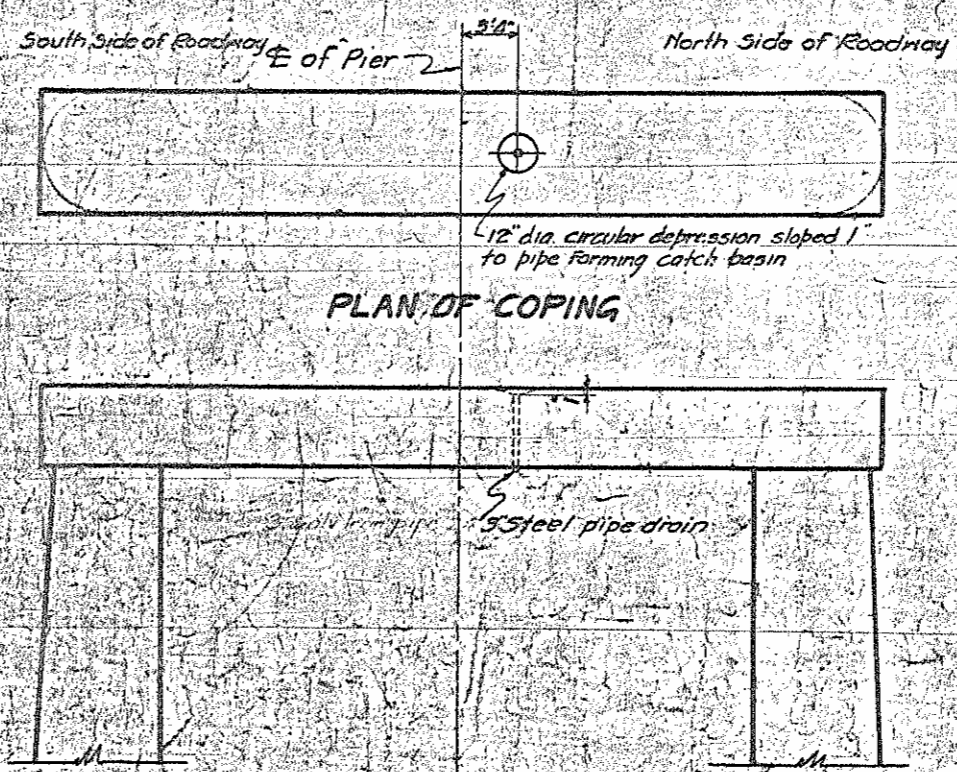
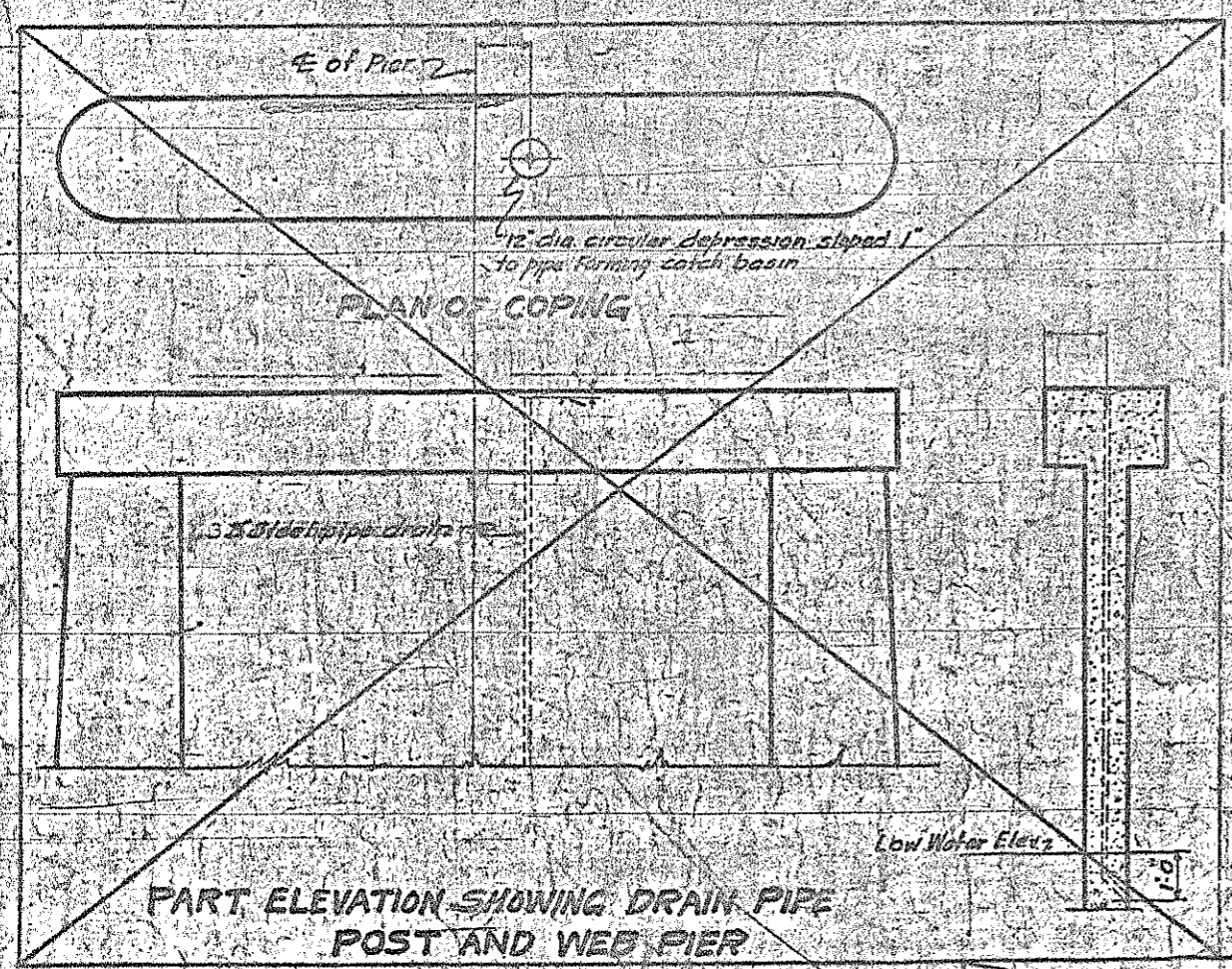
SPECIAL	APPROVED BY: [Signature]
STANDARD	APPROVED BY: [Signature]

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	N.C.	3880	18	24

NR.M. Proj. No. 379-A



MAKE 4 PIECES 10" x 18'3" LONG
MAKE 4 PIECES 10" x 12'0" LONG



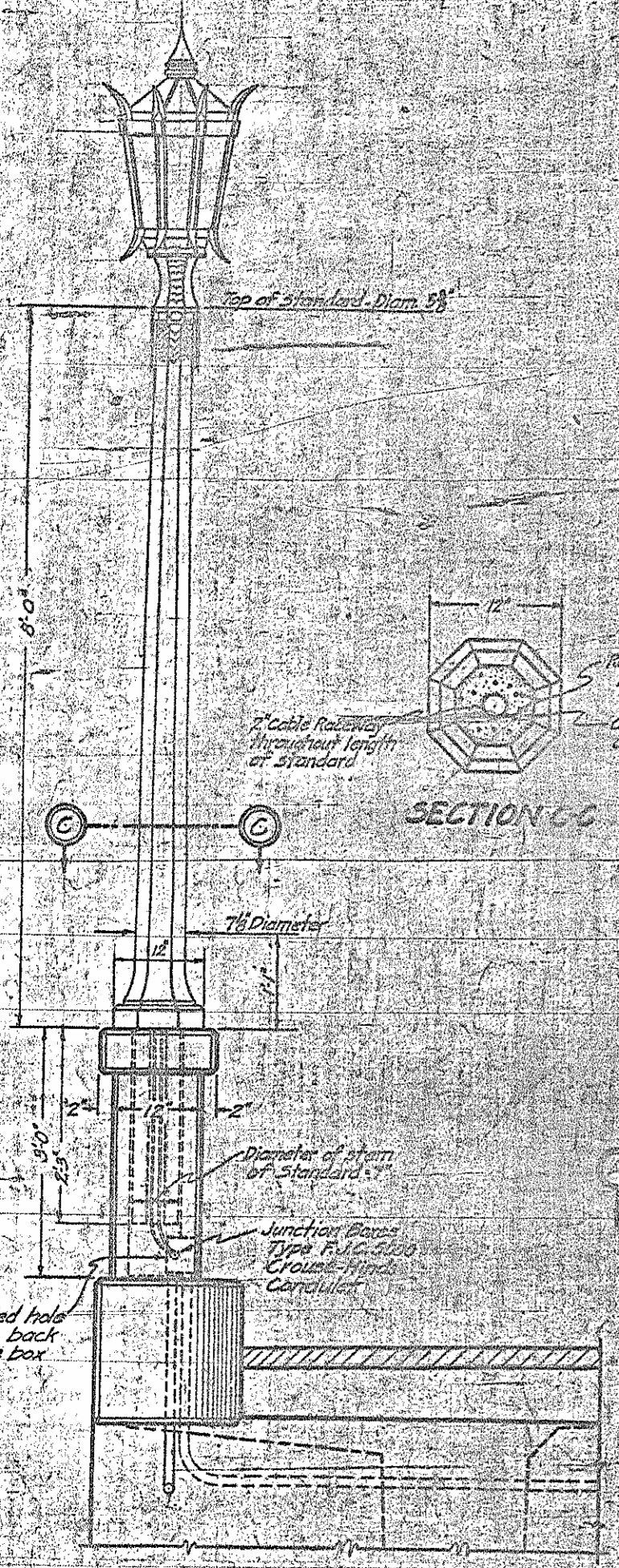
GENERAL NOTE
Copper drains shall be placed in expansion joints between spans of all piers as shown. Copper for drains to be of the best grade #20 gauge 24 oz. sheet copper and shall be shop bent. The cost of same shall be included in contract unit price bid for reinforcing steel, which price shall include cost of drains complete in place and all labor, tools and materials incidental thereto, including the steel pipe in piers or bents.

PROJECT NO. 3880
ROBESON COUNTY

STATION 8+10

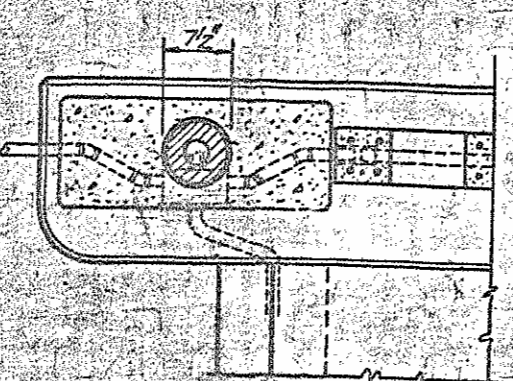
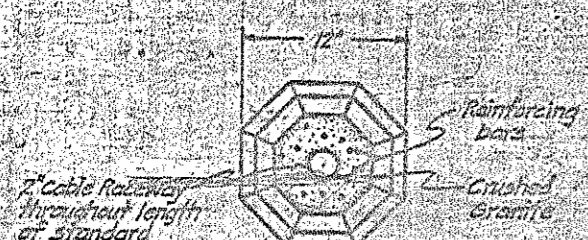
STATE OF NORTH CAROLINA
STATE HIGHWAY & PUBLIC WORKS COMM.
RALEIGH
STANDARD
DETAILS SHOWING COPPER DRAINS
THRU CURTAIN WALLS
R.C. DECK GIRDER
FEB 1931

Revised pipe drains from 24 gauge galv. iron 7-16-31 E.H.F.

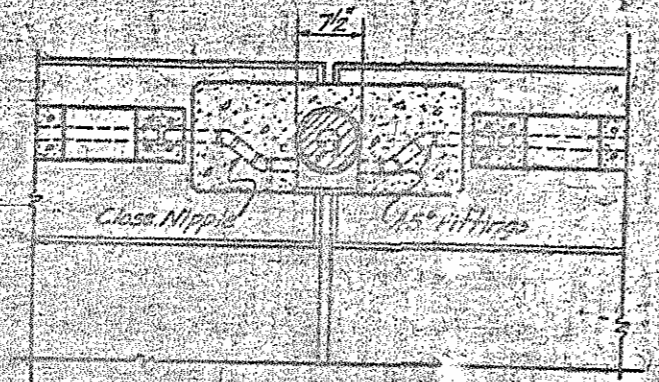


Top of standard Diam. 5 3/8"

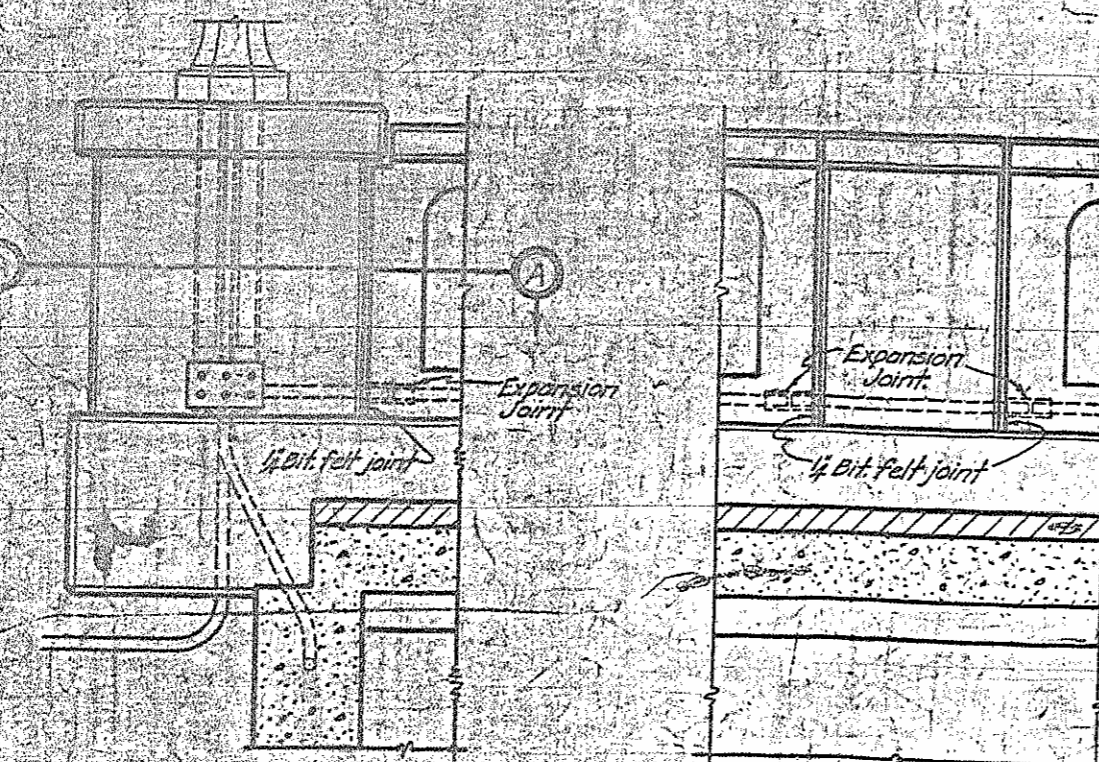
SECTION C-C



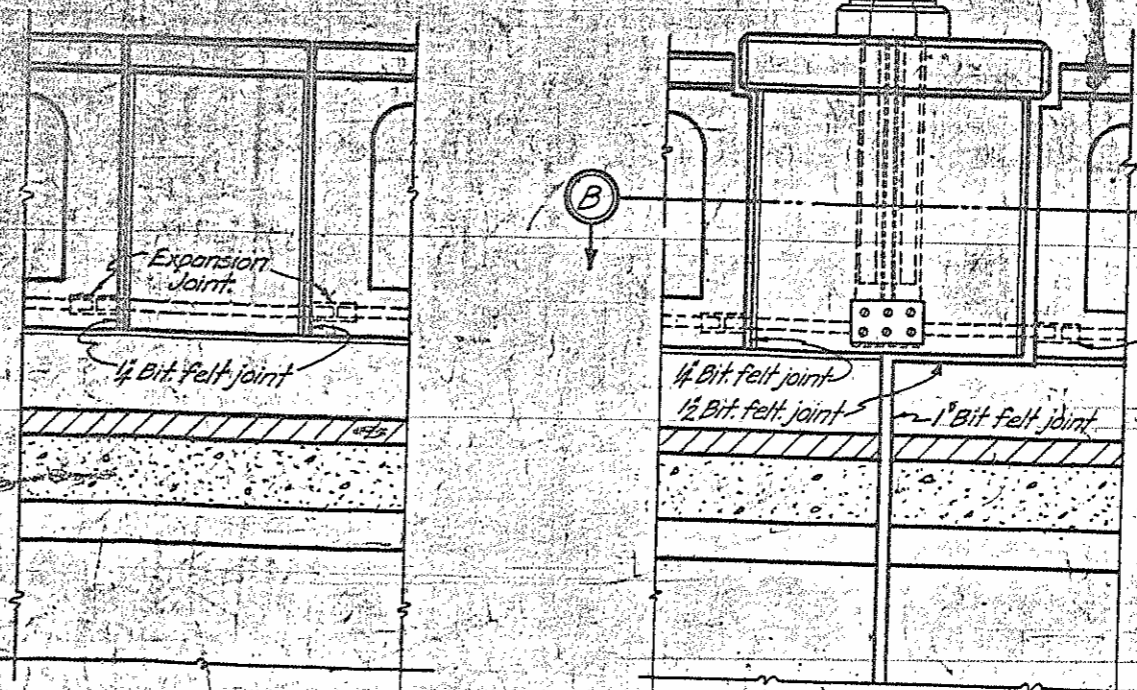
SECTION A-A



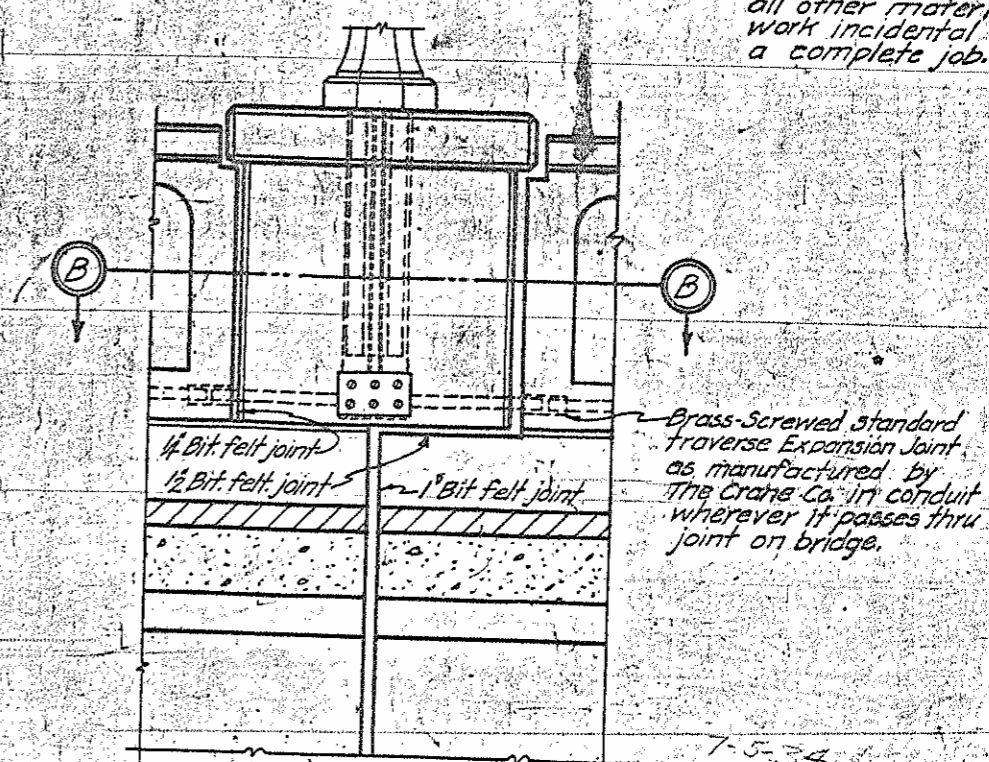
SECTION B-B



ELEVATION OF END POST



ELEVATION OF SUB-POST



ELEVATION OF INTERMEDIATE POST

GENERAL NOTE:

The Contractor shall furnish all Materials, labor, tools, etc. to completely install ready for operation a series of ornamental bridge lighting system, consisting of ornamental lighting units, standards, the necessary cable, laterals, transformers, time switches, lightning arresters, etc. as manufactured by the Westinghouse Electric and Manufacturing Company.

WIRING

Cables shall extend to first ornamental standard in one piece and then in one piece from standard to standard and be connected direct to the lamp socket terminals in each standard. Cables shall be No. 8, B.S. gauge, single conductor solid copper wire tinned, insulated for 2000 Volts, braided and lead covered and have a conductivity of not less than 98% as manufactured by Hazard Mfg. Co. The cable shall be continuous in length from standard to standard and run in 1/2 galvanized conduit.

CONDUITS

All cables shall be run in 1/2 galvanized conduits imbedded in base of concrete handrail as shown. The conduits shall be galvanized and of an approved manufacture and shall be continuous from outlet to outlet. There shall be installed where shown Type F. J. C. 5000 Crouse-Hinds condulets with brass covers.

GROUNDING

The entire system shall be properly grounded.

TRANSFORMERS ETC.

The Contractor shall furnish and install one pole mounting isolating current transformer of 2 k.v.a. group series type, 6.6 amperes primary, 6.6 amperes secondary, 60 cycles, and four 5000 volt lightning arresters. The service pole will be furnished by others and located 50' from the bridge.

GUARANTEE

The Contractor shall give a written guarantee covering the entire installation for a period of one year from date of completion, this to apply both to material and workmanship.

REGULATIONS

All electrical work shall be done in strict accordance with the requirements of the National Electric Code, and with the ordinances and regulations of the local and State Authorities.

STANDARDS

The contractor shall furnish and install illuminating standards and equipment as shown on this plan. The concrete standards shall be reinforced and manufactured by the hollow spinning or centrifugal process and shall be equal to Westinghouse Electric & Mfg. Co. 5-B Type or General Electric Utility No. 8. Cast Aluminum foilium slipover casing, cast aluminum lighting unit with metal canopy and spurs including Bi-lux Bowl type or Holophane B symmetric Refractor. Mazda "C" Street Series, incandescent Lamp, 250 candle power, 6.6 Amperes.

CIRCUIT

The entire Bridge shall be wired on one circuit.

GROUTING

The standards shall be grouted in place with 2:1 sand-cement mortar.

BASIS OF PAYMENT

Illuminating standards will be paid for at the contract unit price for "Illuminating standards as shown on plans, complete in place. This price will be payment in full for furnishing and placing the standards ready for use, and for all wiring, switches, junction and pull boxes, conduits, lamps, globes, globe holders, and for all other materials, equipment, labor and all work incidental thereto necessary to make a complete job.

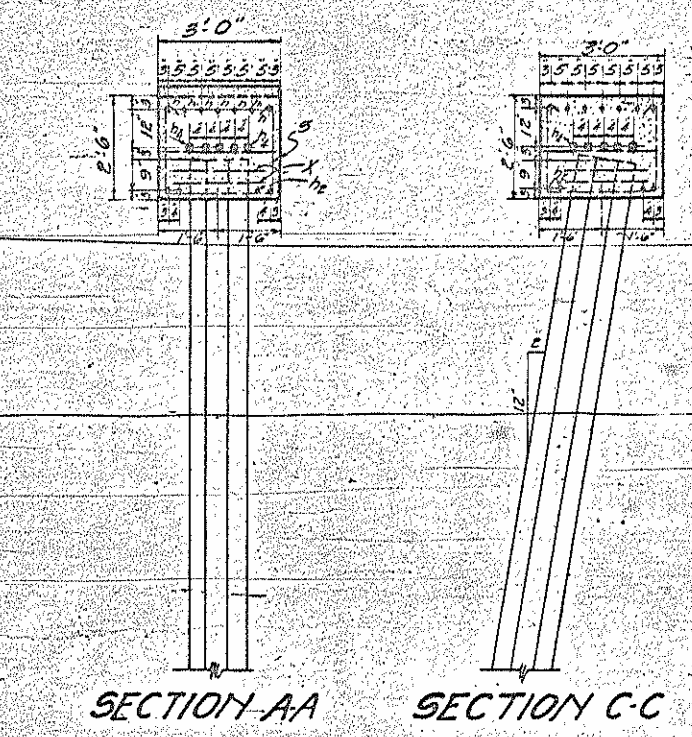
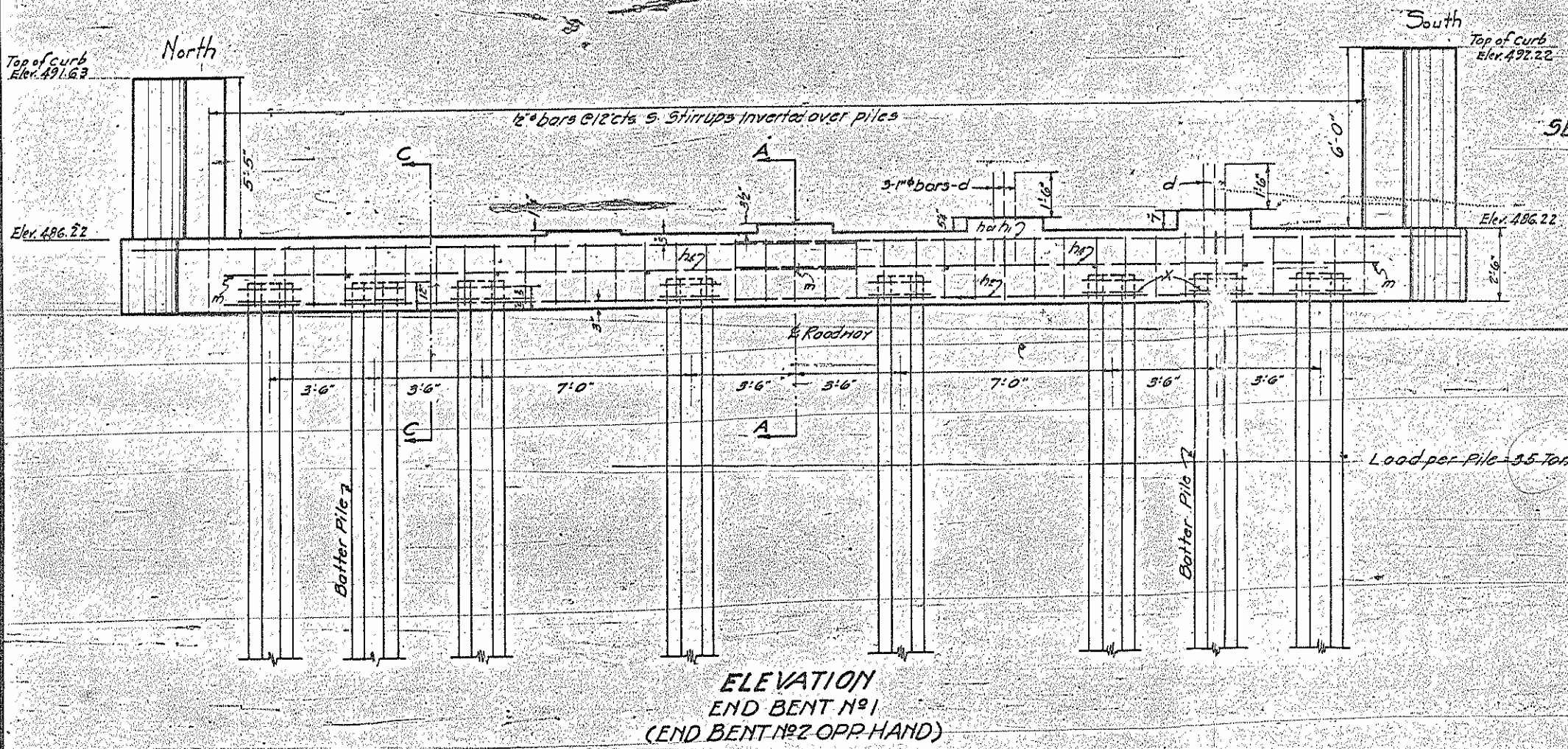
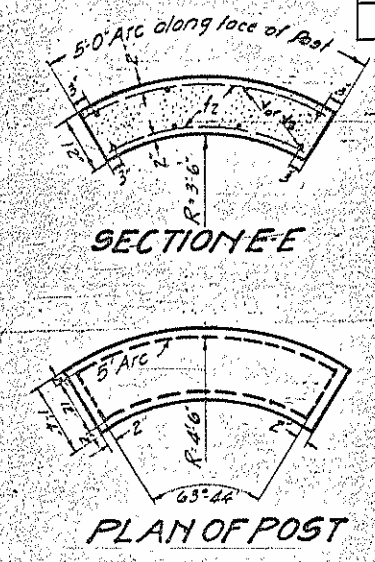
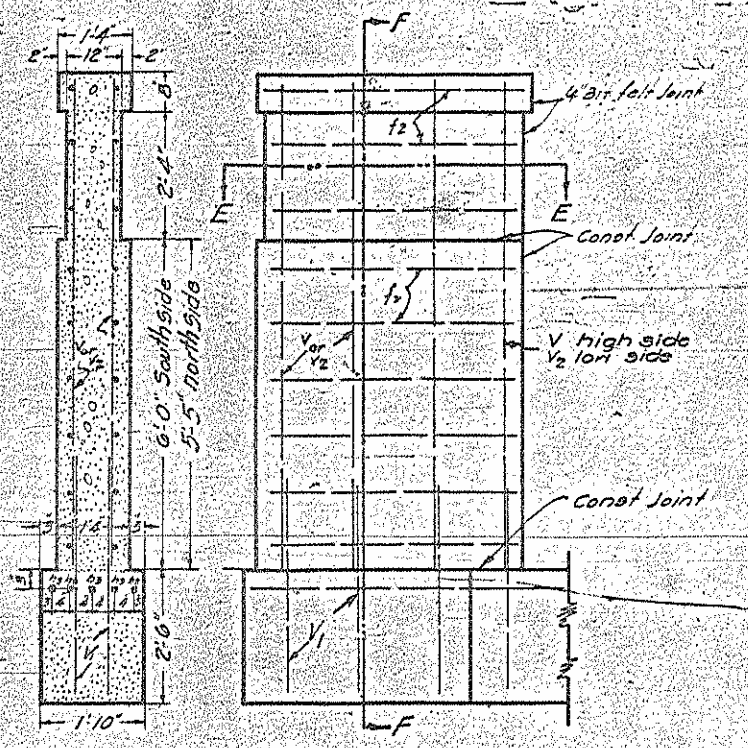
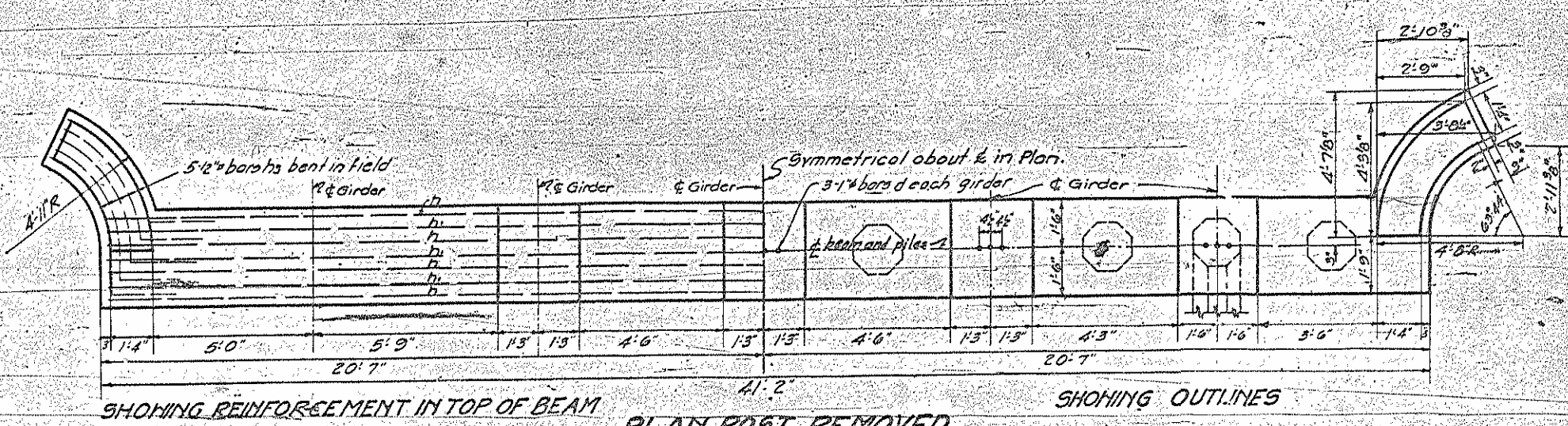
PROJECT NO. 3880
ROBESON COUNTY
STA. 8+10

STATE OF NORTH CAROLINA
STATE HIGHWAY & PUBLIC WORKS COMM.
RALEIGH
**STANDARD
DETAIL OF
ILLUMINATING STANDARD
AND
WIRING CIRCUIT
JAN. 1933**

Revised 7-5-34 for transformer. By F.W.H. & H.E.W.
Revised 2-10-34 by J.M.J. & by R.P.H.
Revised to show dimension at base of illuminating standard 1-3-34 by J.M.J. & by T.B.G.Jc.

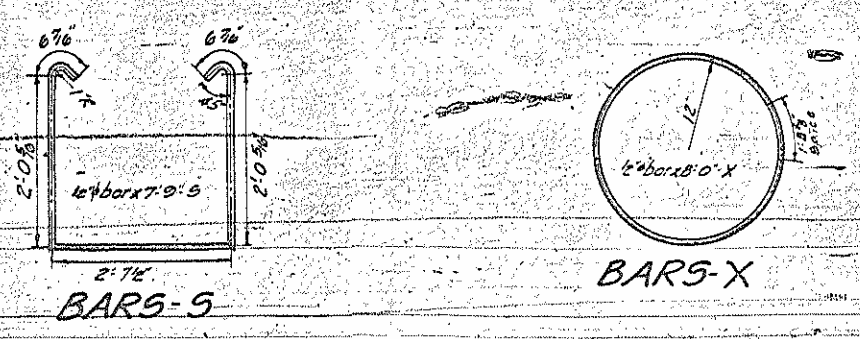
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

APPROVED BY	DATE
DATE	



DESIGN DATA
 Specifications N.C. State Highway & Public Works Commission
 Live Load His
 Impact Allowance None
 Steel in Tension 18000 Lbs per sq. in.
 Concrete in Compression 650 Lbs per sq. in.
 Steel Class A Concrete 60 Lbs per sq. in.

GENERAL NOTE:
 Class A Concrete to be used throughout. Max size of coarse aggregate to be 1 1/2" except in Post and precast piles. Max size of coarse aggregate in post and precast piles to be 3/4".
 All corners to be chamfered 1" except on post. Post corners to be chamfered 3/4".
 All reinforcing steel shall be deformed bars. All dimensions relative to reinforcement are to centers of bars.
 No splices of bars other than those shown on plans will be permitted. All reinforcing steel to be securely held in correct position.
 The portion of the pile projecting into the cap shall be roughened, thoroughly cleaned of all loose material and wetted previous to pouring the cap.
 All material and workmanship as per specifications.



Approx. Lin. Ft. Piling End Bent #1 - 200
 Approx. Lin. Ft. Piling End Bent #2 - 240

Note: Volume of concrete displaced by piles has been deducted.

Note: Use 1" x 4" Piles in End Bents

BILL OF MATERIAL ONE BENT

Bars	N ^o	Size	Length	Weight
d	15	1"	3'-0"	120
h	36	3/8"	3'-9"	90
h	10	3/8"	21'-3"	222
h	4	3/4"	21'-3"	128
h	4	1"	38'-6"	411
h	10	1/2"	7'-6"	64
h	10	1/2"	21'-6"	183
m	2	1/2"	2'-9"	21
s	39	1/2"	7'-0"	202
v	8	1/2"	8'-9"	60
x	16	1/2"	8'-0"	85
v	16	1/2"	4'-3"	58
1/2"	8	1/2"	8'-3"	56
Reinforcing Steel Lbs				1700
Conc. Max. Size Coarse agg. 3/4"				11
				16'-15.3
Total Concrete Cu Yds				16.4
RC Precast Piles N ^o				8

PROJECT NO. 3880
 ROBESON COUNTY
 STA 8+10
 END BENTS 1 AND 2

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 RALEIGH
 SPECIAL
 PRECAST PILE END BENTS
 FOR
 LUMBER RIVER BRIDGE
 OVER
 LUMBER RIVER
 MARCH 1934

SUBMITTED BY *W. C. ...* BRIDGE ENGINEER
 APPROVED BY *John D. ...* STATE HIGHWAY ENGINEER

PLAN NO. 78-133
 MAR. 22, 1934

SPECIAL
 DESIGNED BY *John D. ...* DATE *Feb. 1934*
 DRAWN BY *John D. ...* DATE *5-14-1934*
 CHECKED BY *John D. ...* DATE *5-14-1934*

B.M. #2 spike in roof of 12" birch 10' x 8" at Sta. 8+75 Elev. 479.58

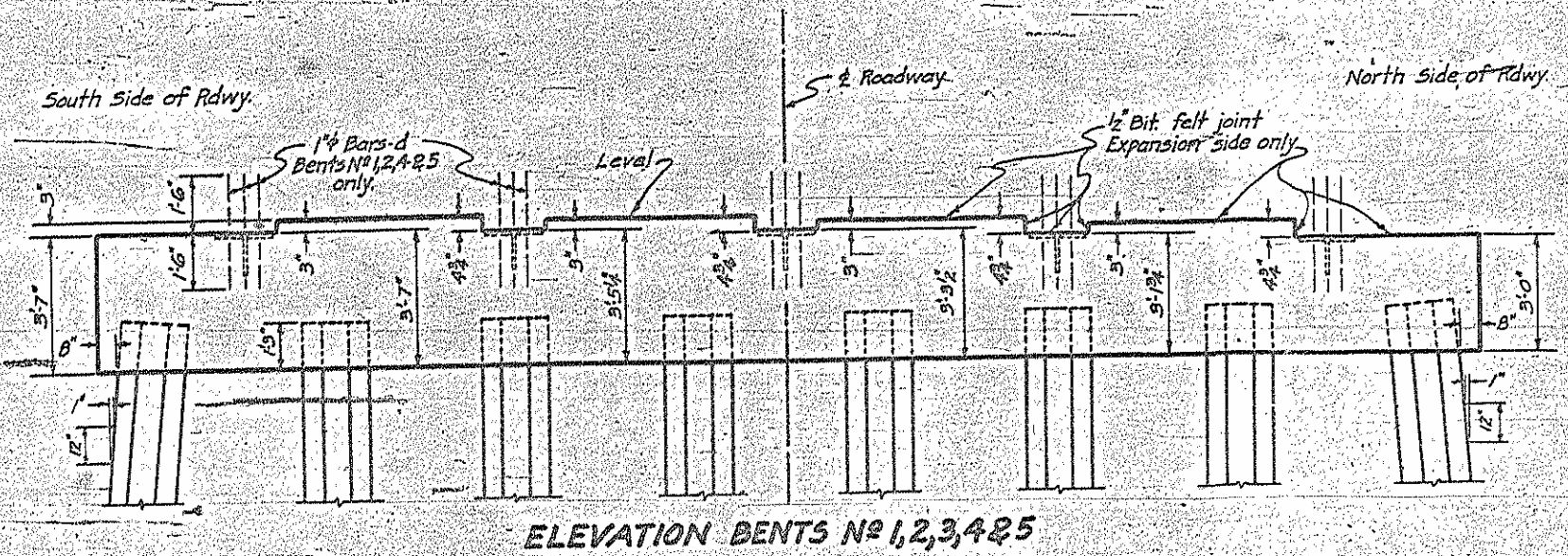
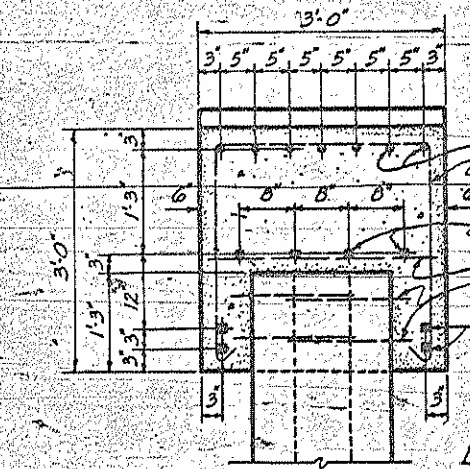
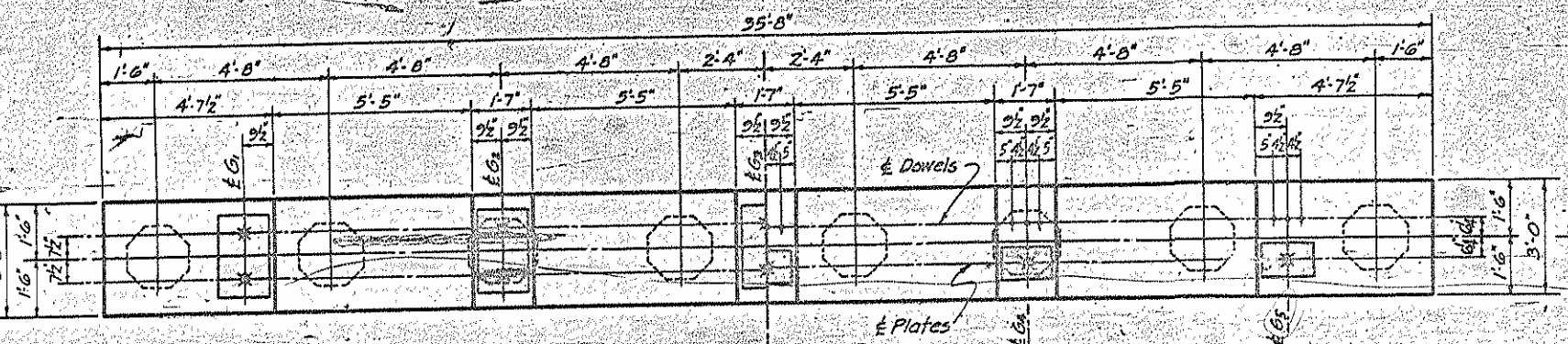
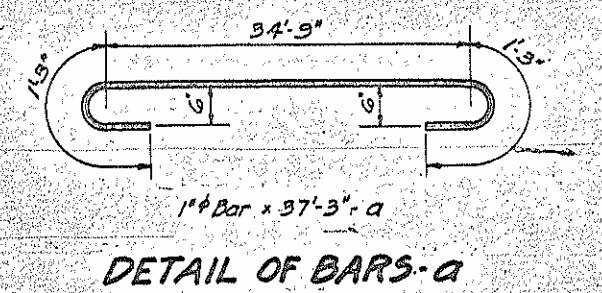
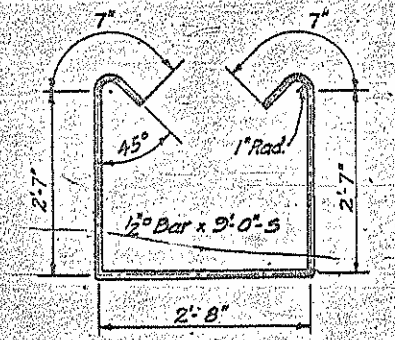
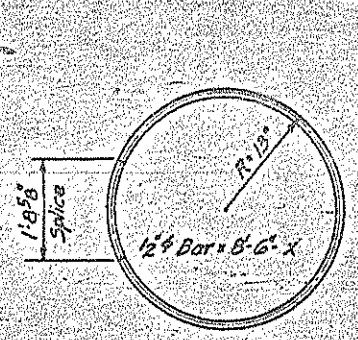
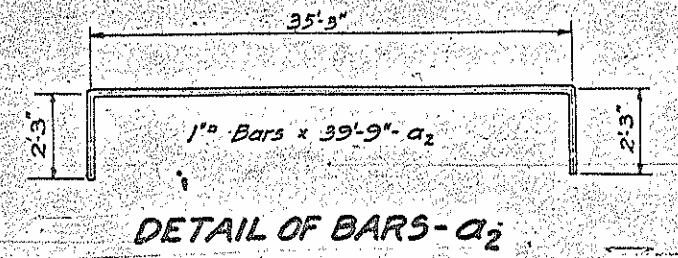


TABLE OF BRIDGE SEAT ELEVATIONS

	Bent #1	Bent #2	Bent #3	Bent #4	Bent #5
Girder G ₁	487.13	487.36	487.43	487.36	487.13
Girder G ₂	486.99	487.22	487.22	487.22	486.99
Girder G ₃	486.04	487.07	487.14	487.07	486.04
Girder G ₄	486.69	486.92	486.99	486.92	486.69
Girder G ₅	486.53	486.78	486.85	486.78	486.53



GENERAL NOTE:

Class "A" concrete to be used throughout. Maximum size of coarse aggregate to be 1/2" except in precast piles. Maximum size of coarse aggregate in precast piles to be 3/4".

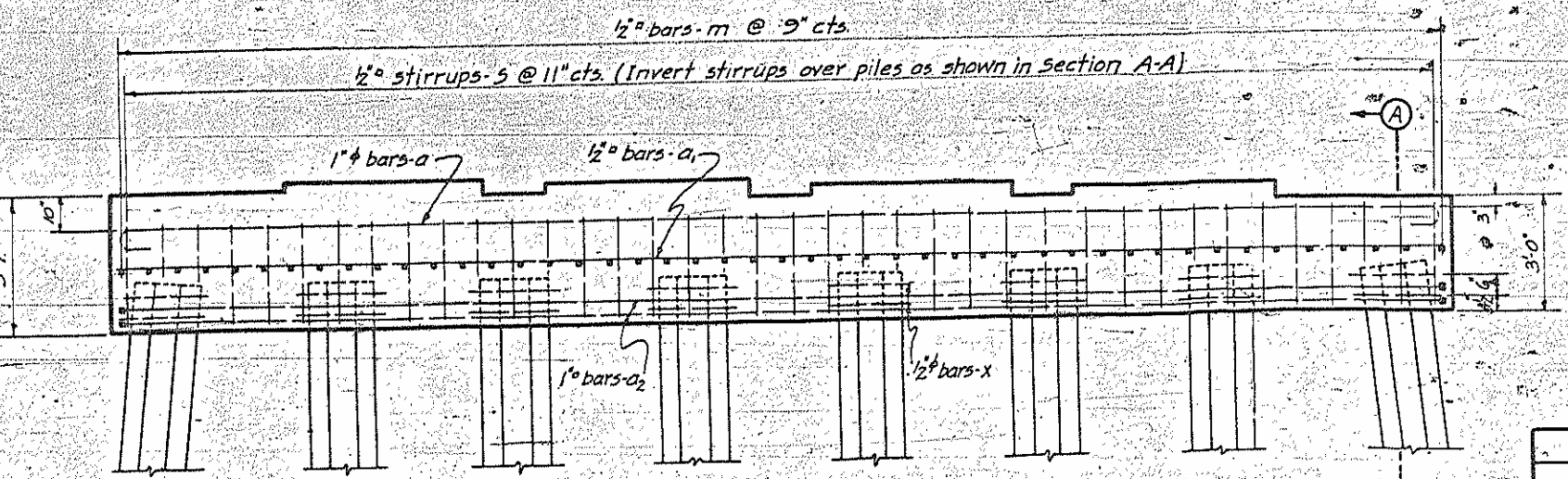
All reinforcing steel shall be deformed bars. All dimensions relative to reinforcement are to centers of bars. No splices of bars other than those shown on plans will be permitted.

All reinforcing steel to be held securely in correct position. The portion of the pile extending into the cap shall be roughened, thoroughly cleaned of all loose material, and wetted, previous to pouring concrete.

All exposed corners of concrete shall be chamfered 1".

All material and workmanship as per specifications.

Size of piles for all intermediate bents to be 20" diameter.



BILL OF MATERIAL ONE BENT
BENT No 1, 2, 3, 4 OR 5

Bar	No	Size	Length	Weight	Notes
a	7	1"	37'-3"	696	Plates & Bolts Bent #1, 2, 4 or 5 - Lbs. 118
a ₁	4	1/2"	35'-3"	120	Plates & Bolts Bent #3 - Lbs. 269
a ₂	4	1"	39'-9"	547	Approx. Lin. ft. 1'-8" Precast R.C. Piles Bent #1-280
d	15	1"	3'-0"	120	Approx. Lin. ft. 1'-8" Precast R.C. Piles Bent #3-320
m	48	1/2"	2'-9"	112	Approx. Lin. ft. 1'-8" Precast R.C. Piles Bent #4-280
s	40	1/2"	9'-0"	306	Approx. Lin. ft. 1'-8" Precast R.C. Piles Bent #5-280
x	16	1/2"	8'-6"	91	

Total Reinforcing Steel Bent #1, 2, 4 or 5 Lbs. 1986

Total Reinforcing Steel Bent #3 Lbs. 1866

Total Class "A" Concrete Cu. Yds. 19.0

1'-8" Precast Reinforced Concrete Piles - No B

* No "d" bars required for Bent #3

NOTE: Volume of concrete displaced by piles has been deducted.

PROJECT No. 3880
ROBESON COUNTY
STATION 8+10.00
BENTS No 1, 2, 3, 4 & 5

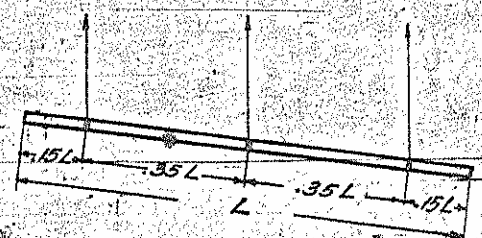
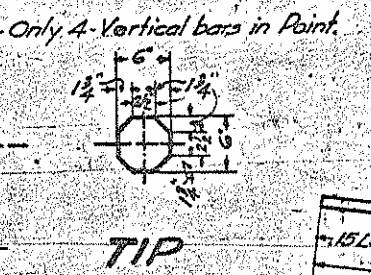
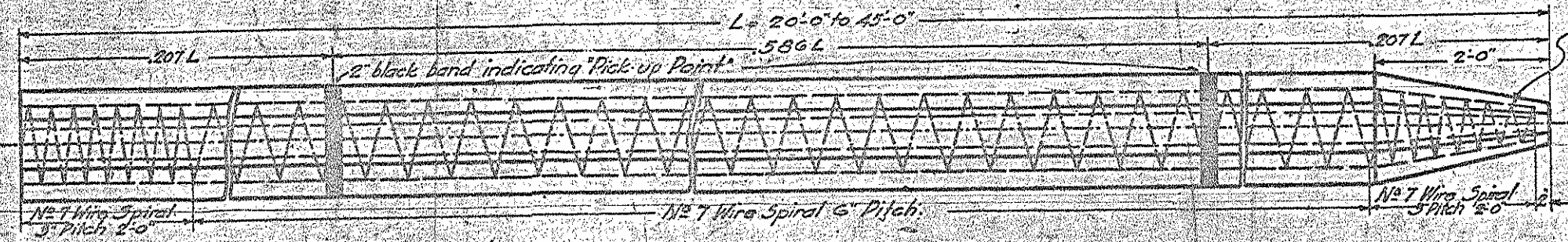
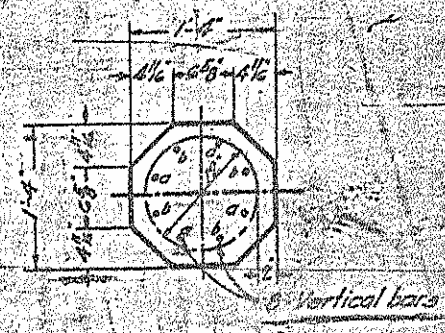
STATE OF NORTH CAROLINA
STATE HIGHWAY AND
PUBLIC WORKS COMMISSION

SPECIAL DETAIL
OF
INTERMEDIATE PILE BENTS
FOR
LUMBER RIVER BRIDGE
FEB. 1934

APPROVED BY: *John D. Wall* STATE HIGHWAY ENGINEER

DATE: Mar. 22, 1934

1-4" OCTAGONAL PILE



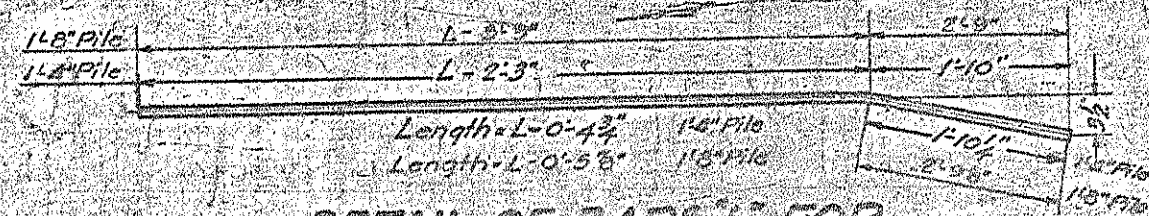
QUANTITIES FOR ONE 1-4" OCTAGONAL PILE

LENGTH "L"	VERTICAL REIN. BARS		TOTAL REIN. STEEL LBS.	CONCRETE CU. YDS.	PILE WT. TONS	TWO PICKUP POINTS	
	BAR NO.	SIZE				207L	586L
20'-0"	2	3/8"	149	1.04	2.11	4'-2"	11'-8"
25'-0"	2	3/8"	218	1.31	2.65	5'-2"	14'-8"
30'-0"	2	3/8"	256	1.58	3.20	6'-2"	17'-8"
35'-0"	2	3/8"	324	1.85	3.75	7'-3"	20'-6"
40'-0"	2	3/8"	400	2.13	4.31	8'-3"	23'-5"
45'-0"	2	3/8"	550	2.40	4.86	9'-4"	26'-4"

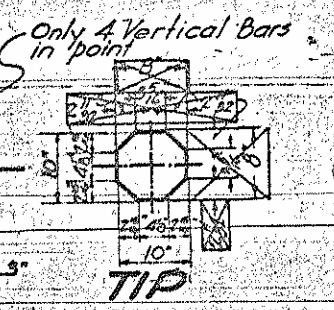
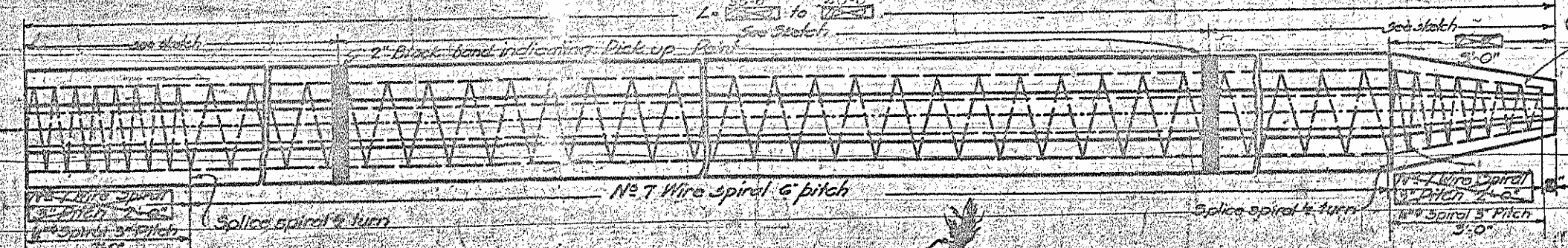
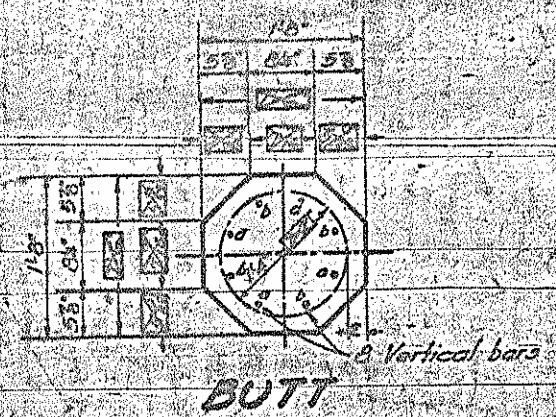
Wt. N#7 Wire is considered as .2825 lbs. per ft. American Steel and Wire Co's. Standard. Conc. per lin. ft. of Pile = 0.2545 cu. yds. Conc. in point = 0.055 cu. yds.

METHOD OF PICKING UP 1-4" AND 1-6" PILES UNDER 60 FEET 2 PICKUP POINTS

DETAIL OF BARS 'b' FOR 1-4" AND 1-6" PILES



1-6" OCTAGONAL PILE



QUANTITIES FOR ONE 1-6" OCTAGONAL PILE

LENGTH "L"	VERTICAL REIN. BARS		TOTAL REIN. STEEL LBS.	CONCRETE CU. YDS.	PILE WT. TONS	TWO PICKUP POINTS		THREE PICKUP POINTS	
	BAR NO.	SIZE				207L	586L	15L	35L
46'-0"	2	3/8"	761	3.11	6.30	9'-6"	27'-0"	9'-0"	21'-0"
50'-0"	2	3/8"	1073	3.29	6.86	10'-4"	29'-4"	9'-9"	22'-9"
55'-0"	2	3/8"	1495	3.73	7.55	11'-4 1/2"	32'-3"	10'-6"	24'-6"
60'-0"	2	3/8"	2059	4.08	8.26	—	—	—	—
65'-0"	2	3/8"	2749	4.42	8.95	—	—	—	—
70'-0"	2	3/8"	3965	4.77	9.66	—	—	—	—

Wt. N#7 Wire is considered as .2825 lbs. per ft. American Steel and Wire Co's. Standard. Conc. per lin. ft. of Pile = 0.069 cu. yds. Conc. in point = 0.076 cu. yds.

QUANTITIES FOR ONE 1-8" OCTAGONAL PILE

LENGTH "L"	VERTICAL REIN. BARS		TOTAL REIN. STEEL LBS.	CONCRETE CU. YDS.	PILE WT. TONS	TWO PICKUP POINTS	
	BAR NO.	SIZE				207L	586L
35'-0"	2	3/8"	232	2.87	5.9	7'-3"	20'-6"
40'-0"	2	3/8"	361	3.30	6.7	8'-3"	23'-6"

Concrete per lin. ft. of pile = 0.0851 cu. yds. in point = 0.15 "

GENERAL NOTE:

Concrete shall be Class A. Maximum size of coarse aggregate to be 3/4". Coarse Aggregate shall consist of crushed stone only. All reinforcing steel shall be deformed bars. No splices of bars will be permitted. The spiral hoops shall be wired to the vertical bars at intervals of not more than 20" and when a new method approved by the Engineer shall be used whereby the head of the pile is not damaged. Piles shall be installed in accordance with the specifications of the North Carolina State Highway and Public Works Commission.

SUMMARY OF PILES.

NO.	LENGTH	DIAMETER	CONC. CU. YDS.	REIN. STEEL LBS.
8	45'-0"	1-4"	12.5	1704
8	30'-0"	1-4"	17.6	2048
24	35'-0"	1-6"	29.0	10368
12	40'-0"	1-6"	52.8	10576

PROJECT NO. 3880
ROBESON COUNTY

STATION 8+10

STATE OF NORTH CAROLINA
STATE HIGHWAY & PUBLIC WORKS COMM.

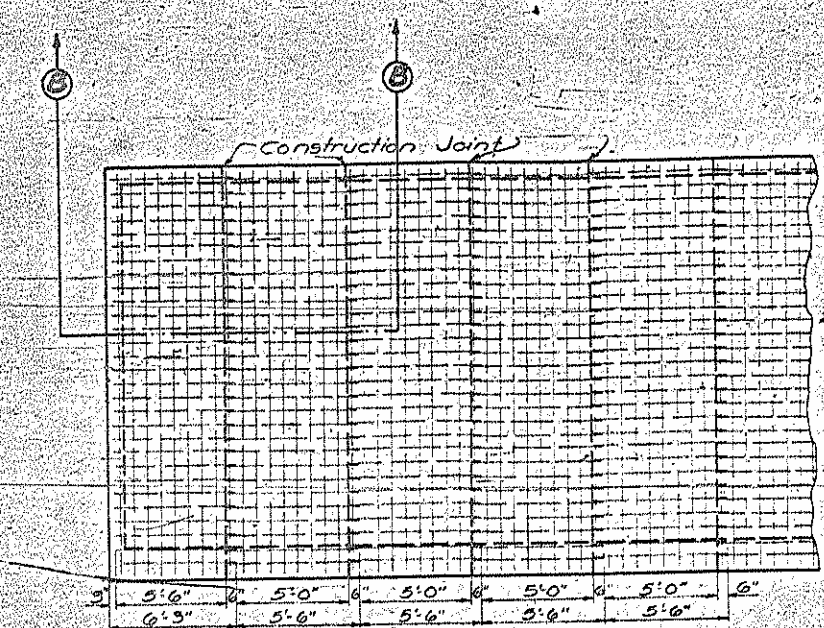
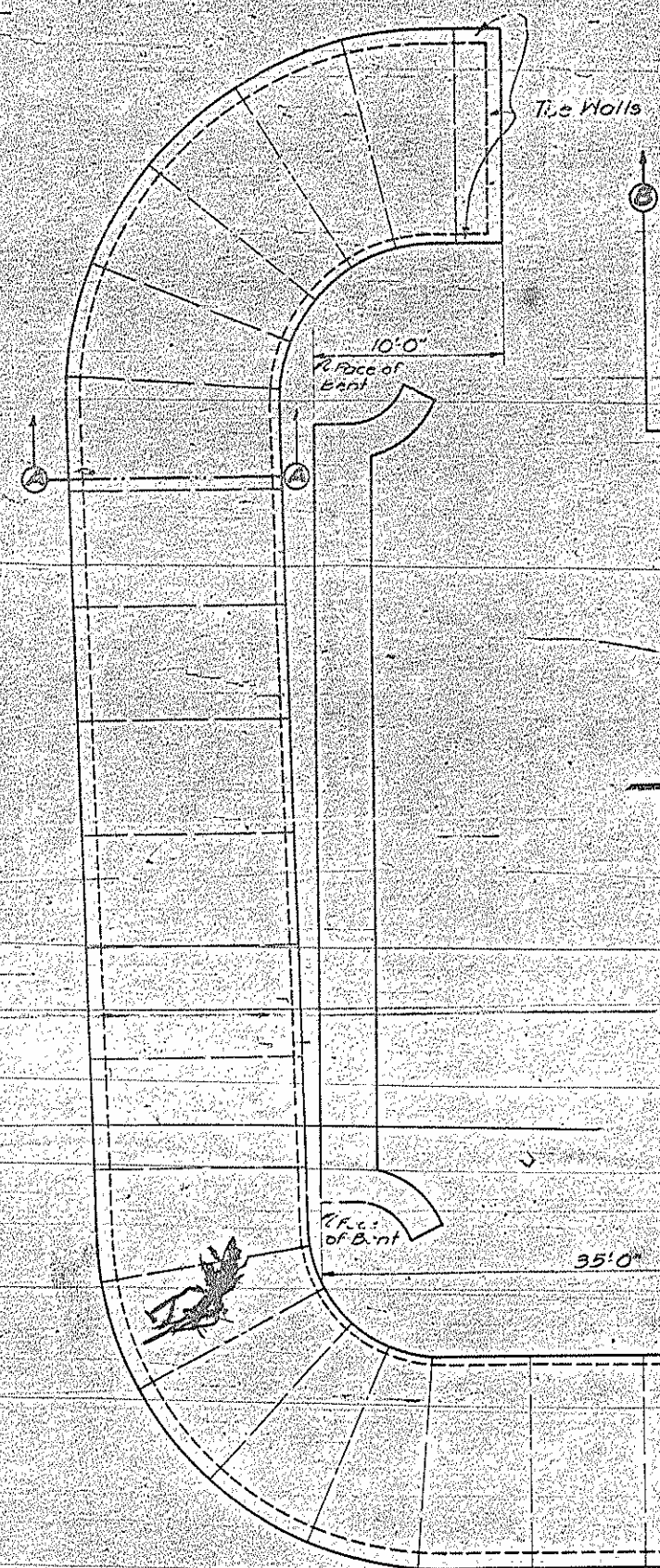
STANDARD
PRE-CAST
R.C. PILES
SEPTEMBER 1925

SPECIAL	APPROVED BY	DATE
STANDARD	APPROVED BY	DATE

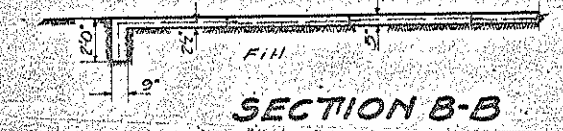
Revised to allow only crushed stone for coarse aggregate. May 1, 1924
Traced and revised as to Class A concrete & size of aggregate by E.H.P. & W.S.S. ck. by H.R. 28-31.
Revised May 20, 1924 for concrete quantities and pile weight by F.A.F.J. Checked by D.R.R.
Revised Jan. 31, 1925 for weight reinforcing steel & length by J.G.
Revised for 2 bars, 20 Pile, 4-20-24 by E.P.H.
Revised for 2 bars, 10-16-22 by J.P. Checked by G.T.B. Revised June 21, 1927 for Pickup Points by D.R.R. ck. by T.P.W. Jr.

REINFORCING STEEL LBS. 22,272
CONCRETE CLASS A CU. YDS. 122.67
LINEAR FEET 1-4" PILES 112.0
LINEAR FEET 1-6" PILES 112.0
TOTAL PILES NO. 24

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
10	N. C.	3880	23	24
N.R.M. Proj. No. 379-A				



PART PLAN SHOWING WIRE MESH



SECTION B-B

GENERAL NOTE

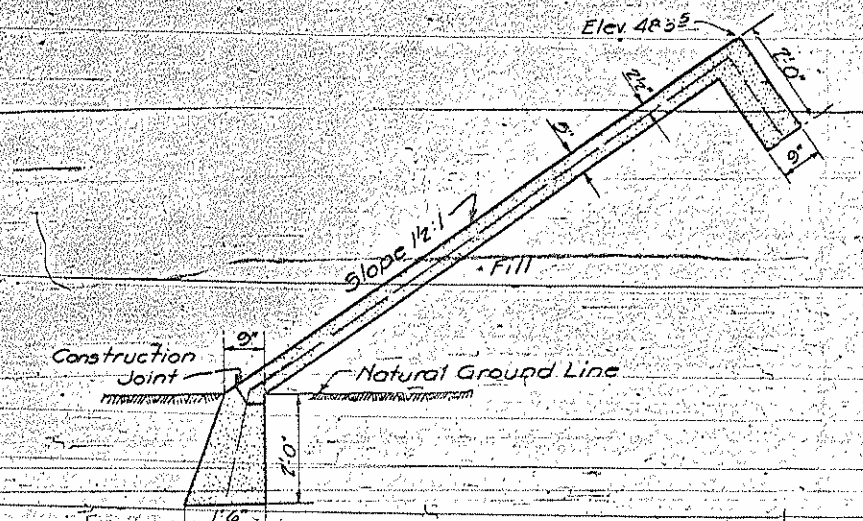
All concrete to be Class B, Proportions 1 2 5
 Reinforcement to be #7 electrically welded wire mesh
 The wires in the mesh to be spaced at 4" centers in both directions.
 All materials and workmanship as per specifications of the North Carolina State Highway and Public Works Commission.

Note: No allowance will be made for metal mesh. The cost of same complete in place including all material, equipment, tools, labor and incidentals to complete the item to be included in the unit price bid per sq. yd. for concrete rip rap.

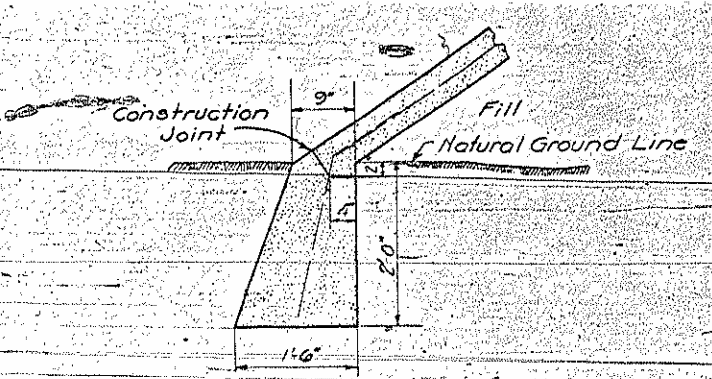
PLAN

PROJECT NO. 3880
 ROBESON COUNTY

STATION 8+10



SECTION A-A



DETAIL OF CONSTRUCTION JOINT AT TOE

Concrete Rip Rap 375.0 Sq. Yds
 6" #7 Wire Mesh 740 Lin. Ft.

Approximate cu. yds. concrete rip rap - 72.0

SPECIAL	DESIGNED BY	F. W. Flaherty	DATE	Feb. 1934
	DRAWN BY	F. W. Flaherty	DATE	Feb. 1934
	CHECKED BY	J. N. Wall	DATE	Feb. 1934

STATE OF NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 RALEIGH

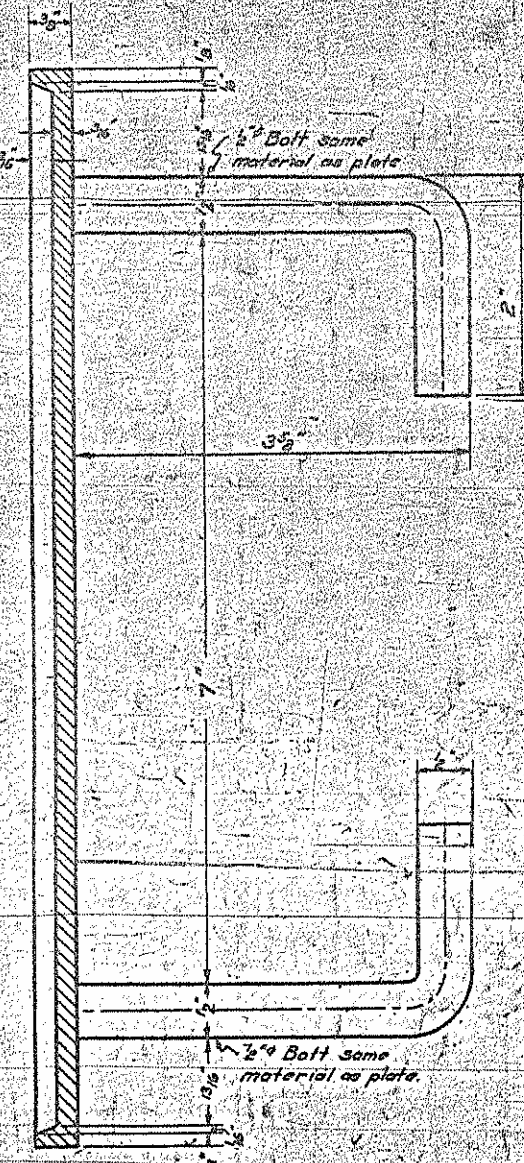
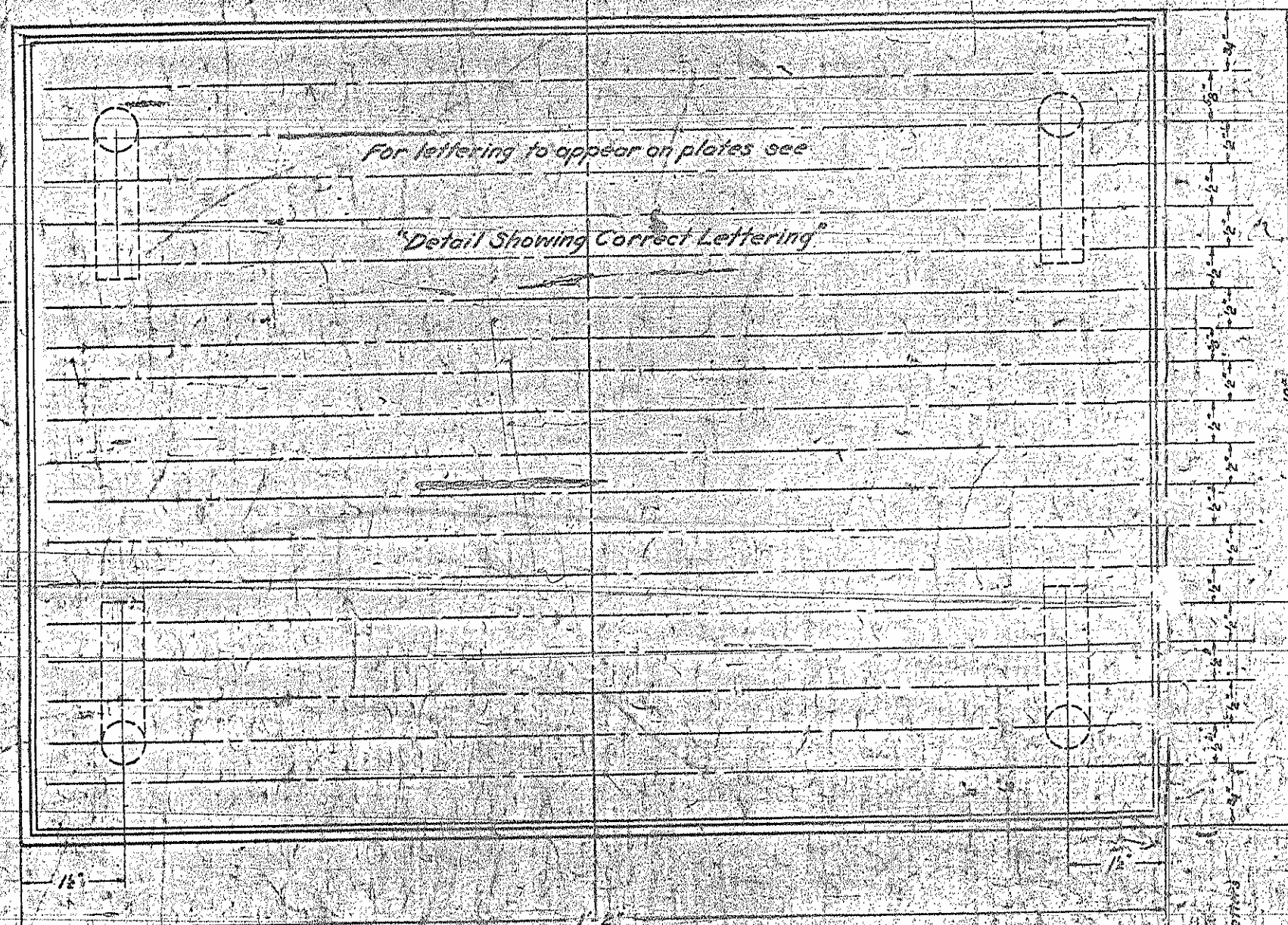
SPECIAL
DETAIL OF CONCRETE
RIP RAP
LUMBER RIVER BRIDGE
FEBRUARY 1934

APPROVED BY: *W. L. Green* BRIDGE ENGINEER
 APPROVED BY: *John D. Williams* STATE HIGHWAY ENGINEER

DATE: 3-23-34

PLAN NO. 75233
 NOV. 22 1934

DATE	BY	PROJECT NO.	SCALE	APP. SUBJECT
10	N. C.	3880	2 1/2"	24
STATE HIGHWAY & PUBLIC WORKS COMMISSION				



GENERAL NOTE:
 Two name plates are required for each bridge. One is to appear on each right hand end post approaching the bridge. It is to be securely fastened to the end of R.C. T-Beams Girders or on the roadway side of handrail posts on R.C. Slabs and R.C. Deck Girders.
 The plates are to be made of Grade C Phosphor Bronze 5/16\"/>

Two name plates shall be provided for ~~each~~ bridge at station 5+10.

Note:
 Slope end Name Plate to 4\"/>

LUMBER RIVER BRIDGE
 ROBISON COUNTY
 STATE PROJECT NO. 3880
 BUILT BY
 NORTH CAROLINA
 STATE HIGHWAY AND
 PUBLIC WORKS COMMISSION
 WITH FEDERAL AID
 1934

STATE OF NORTH CAROLINA
 STATE HIGHWAY & PUBLIC WORKS COMMISSION
 STANDARD
 NAME PLATE
 FOR
 CONCRETE BRIDGES
 JULY 1933

DETAIL SHOWING CORRECT LETTERING

SPECIAL	DESIGNED BY	DATE
STANDARD	DRAWN BY	DATE
	CHECKED BY	DATE