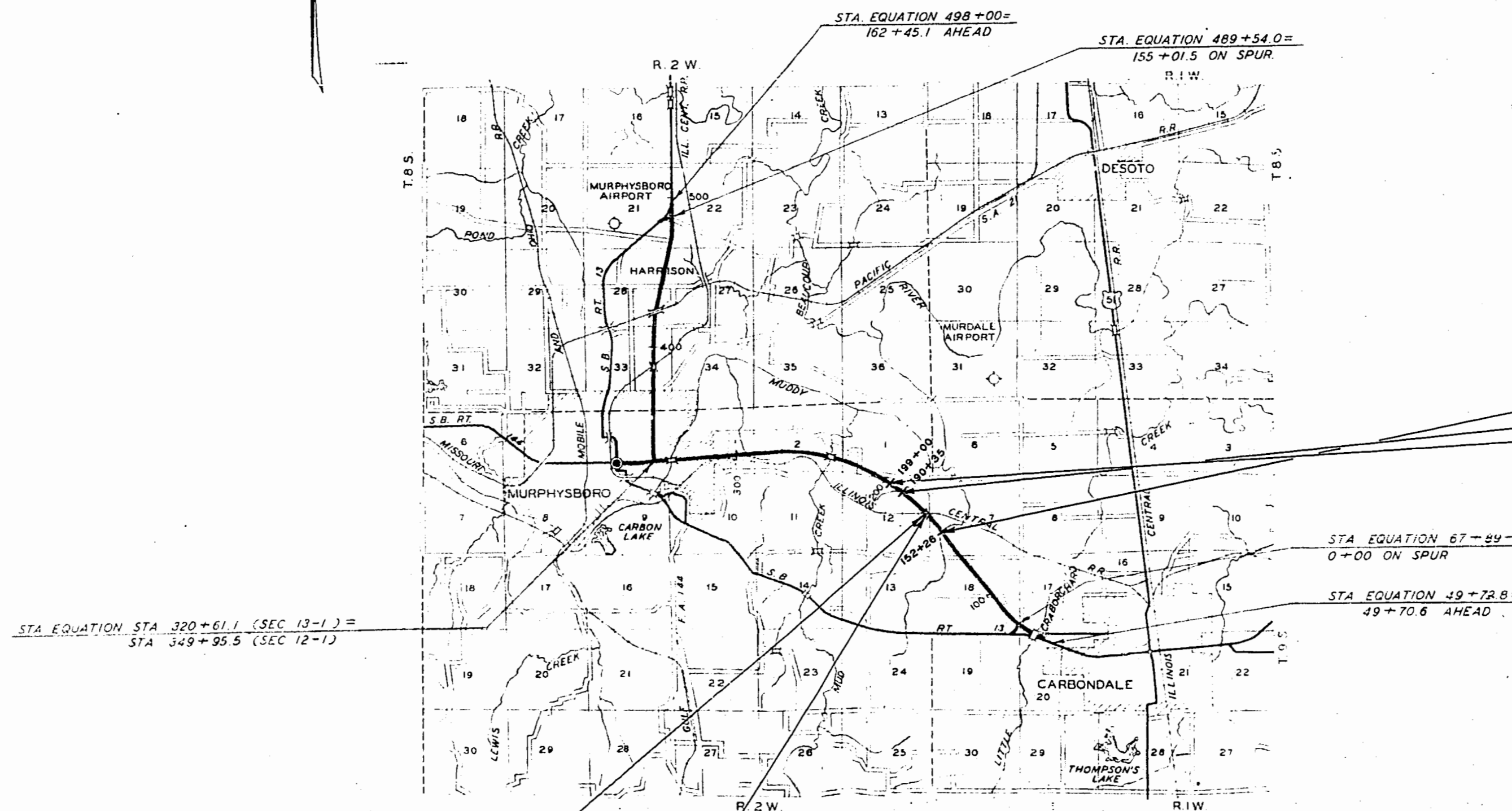


STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS  
 DIVISION OF HIGHWAYS  
 PLANS FOR PROPOSED  
 FEDERAL AID HIGHWAY

SECTION	12-IVB	Jackson	VB-11
PROJECT	14	12-IVF	VF-10
DATE	MAY 27 1954		
DESIGNED BY	E. J. ALTON		
CHECKED BY	E. J. ALTON		
APPROVED BY	E. J. ALTON		

SCALES  
 HORIZONTAL 1" = 100 FT  
 VERTICAL 1" = 10 FT  
 CROSS SECTIONS 1" = 5 FT

F. A. ROUTE 14 SEC. 12-IVB, 12-IVF  
 PROJECT FG-115(14)  
 JACKSON COUNTY



SECTION 12-IVB ALSO INCLUDES THE CONSTRUCTION OF R.C. BOX CULVERTS AS FOLLOWS:

STATION	SIZE
152+26	DOUBLE 10' X 6'
190+35	6' X 6'
199+00	12' X 11'

SECTION 12-IVF INCLUDES THE FURNISHING AND FABRICATION OF STRUCTURAL STEEL AND METAL HANDRAIL, FURNISHING AND APPLYING SHOP COAT OF PAINT, AND DELIVERY OF THE STRUCTURAL STEEL AND METAL HANDRAIL, F.O.B. CARBONDALE FOR A 3 SPAN CONTINUOUS I-BEAM GRADE SEPARATION STRUCTURE, SPANS 2 @ 66'-0" AND 1 @ 77'-0", AT STA. 169+75.95

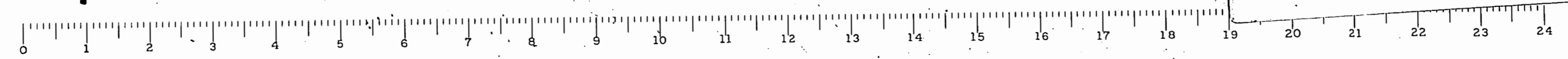
SECTION 12-IVB INCLUDES THE CONSTRUCTION OF A CONTINUOUS I-BEAM GRADE SEPARATION STRUCTURE OVER THE I.C.R.R. 3 SPANS @ 66'-0", 77'-0", 66'-0" AT STA. 169+75.95 WITH THE EXCEPTION OF FURNISHING, FABRICATING, SHOP PAINTING AND DELIVERY OF THE STRUCTURAL STEEL AND METAL HANDRAIL.

LAYOUT  
 APPROXIMATE SCALE 1" = 1 MILE

DEPARTMENT OF PUBLIC WORKS AND BUILDINGS  
 May 27 1954  
 E. J. ALTON  
 DISTRICT ENGINEER

DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC ROADS  
 APPROVED: [Signature] DATE: [ ]

JACKSON COUNTY SECTION 12-IVB, 12-IVF F.A. ROUTE 14



FOR INFORMATION ONLY

DISTRICT	SECTION	COUNTY	SHEET	DATE
F.A. 1h	12-1VF	Jackson	VF-10	VF-2
SHEET NUMBER 10 OF 10 (SEE PROJECT FILE FOR SHEET NO. 11)				

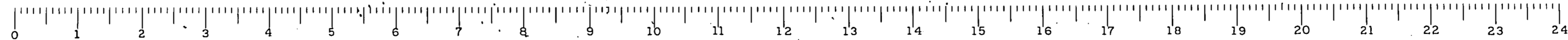
INDEX OF SHEETS

- Sheet No.
1. Cover Sheet.
  2. Index of Sheets; Summary of Quantities.
  3. Plan-Profile Sheet Station 150+00 to 180+00
  - 4 to 10. Special Bridge Design Station 169+75.95

SUMMARY OF QUANTITIES

275,260 Lbs. Structural Steel  
 126 Lin. Ft. Metal Handrail

PREPARED BY: *T.M.P. Boulden*  
 DIST. DESIGN ENGINEER  
 EXAMINED BY: *W.C. Lawrence*  
 DIST. CONST. ENGINEER  
 EXAMINED BY: *R.H. Harrison*  
 DIST. TRAFFIC ENGINEER  
 EXAMINED BY: *B.M. Lellan*  
 DIST. TRAFFIC ENGINEER  
 APPROVED: *May 27, 1954*  
*W.D. McLeod*  
 DISTRICT ENGINEER



FOR INFORMATION ONLY

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 11	12-IVB Jackson	11	2

**INDEX OF SHEETS**

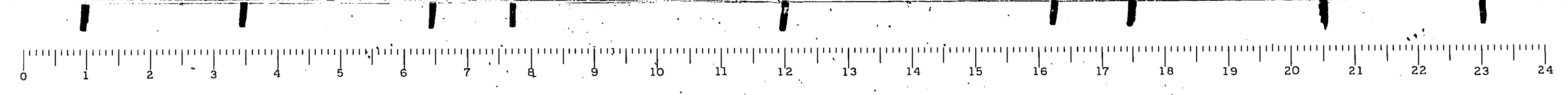
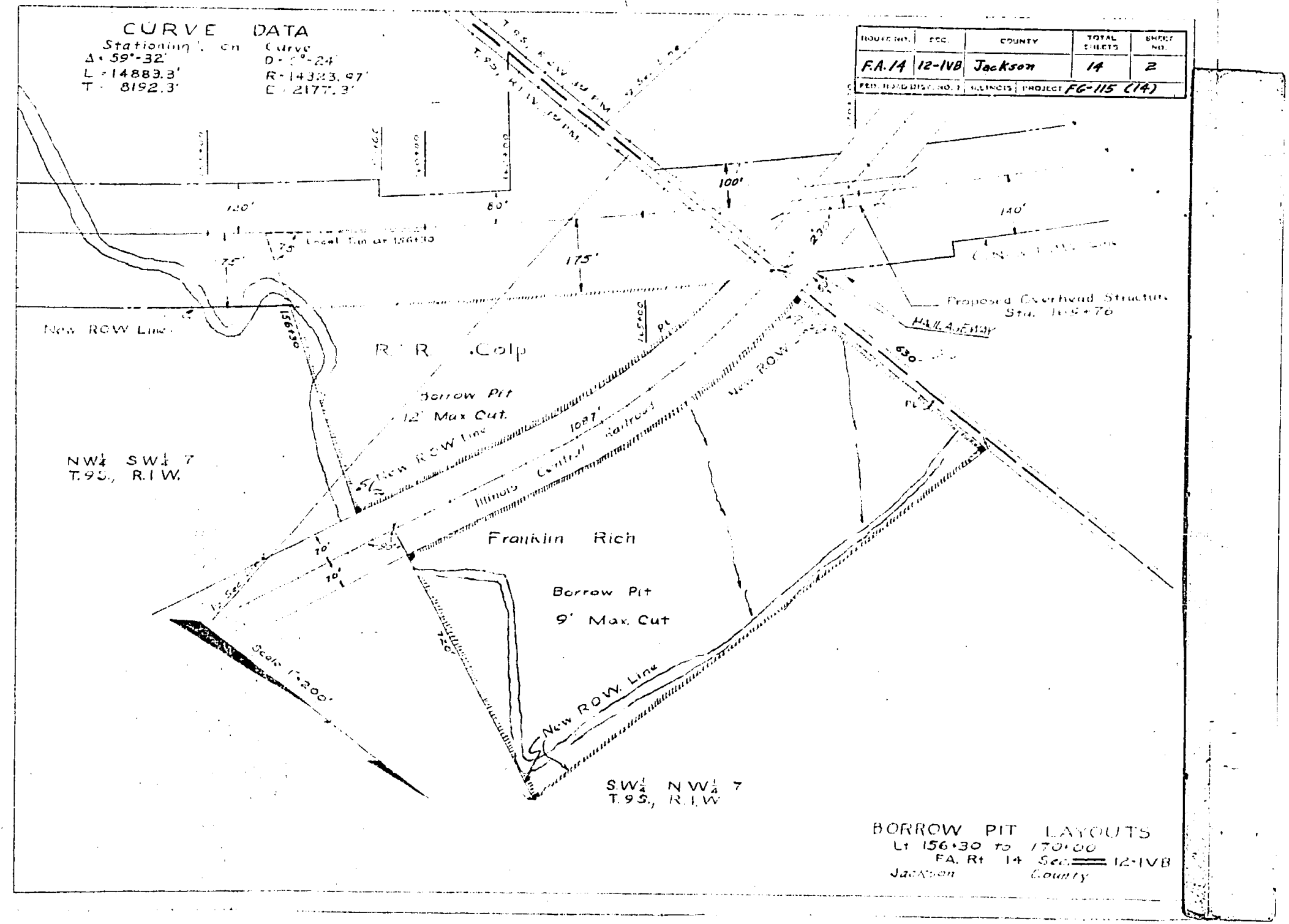
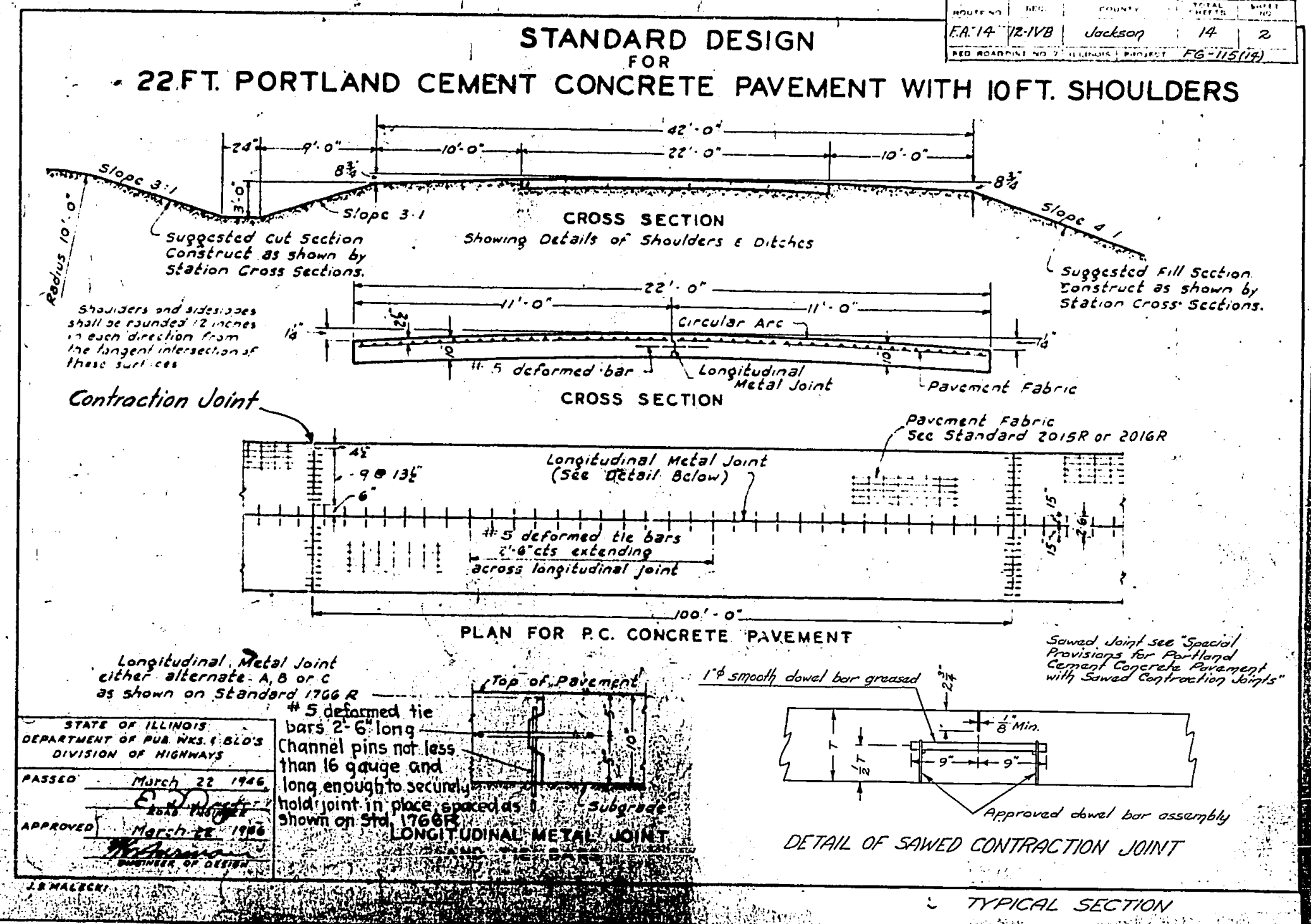
- Sheet No.
- Cover Sheet
  - Summary of Quantities; General Notes; Index of Sheets; Detail Layout of Borrow Pits, & Typical Section
  - Standards No. 1686R, 2113
  - Plan and Profile Sta. 150 - Sta. 180
  - Plan and Profile Sta. 180 - Sta. 210
  - Culvert Etchings - Sta. 190+35; Sta. 199+00, Standards No. 1971B, 2114
  - Special Culvert Design - Sta. 152+26
  - Special Bridge Design - Sta. 169+75.95

State Work		Project		Total	SUMMARY OF QUANTITIES	
2,799		12,815		2,799	Cu. Yds.	Earth Excavation
		770		12,815	Cu. Yds.	Borrow Excavation
				770	Cu. Yds.	Class A Excavation for structures
4				4.0	Acres	Tree Removal - Acres
94		43		137	In. Dia.	Tree Removal (6" to 15" dia.)
16		17		33	In. Dia.	Tree Removal (over 15" dia.)
713.3				713.3	Cu. Yds.	Class X Concrete (Culverts)
		612.6		612.6	Cu. Yds.	Class X Concrete (Bridges)
				1.6	Cu. Yds.	Handrail Concrete
91,070		63,900		154,970	Lbs.	Reinforcement Bars
		275,260		275,260	Lbs.	Structural Steel
		426		426	Lin. Ft.	Metel Handrail
1		1		2	Each	Name Plates
		2,080		2,080	Lin. Ft.	Furnishing Crescated Piles, up to 20'
		825		825	Lin. Ft.	Furnishing Crescated Piles, 20.1' to 38'
		2,905		2,905	Lin. Ft.	Driving Timber Piles
		2		2	Each	Test Piles (Timber)

**GENERAL NOTES**

Standards referred to: 1686R; 2113; 1971B; 2114  
 No overhaul will be allowed for earth moved from any source.  
 Trees shall be preserved throughout this section as directed by the Engineer and as shown on the plans.  
 Excavated slopes in borrow pits shall not be steeper than 3:1.  
 All reinforcement bars shown on the plans shall be round ASTM A305-49. The size and number is the number of 1/8 inches in the nominal diameter.

PREPARED BY *M.P. Boulden*  
 DIST. DESIGN ENGINEER  
 EXAMINED BY *James J. ...*  
 DIST. C.C.R. ENGINEER  
 EXAMINED BY *Richard ...*  
 DIST. MAINT. ENGINEER  
 EXAMINED BY *B.W. ...*  
 DIST. TRAFFIC ENGINEER  
 APPROVED *May 27, 1954*  
 DISTRICT ENGINEER



FOR INFORMATION ONLY

SECTION	SECTION	COUNTY	SHEET	DATE
F.A. 11	12-1VF	Jackson	VF-10	VF-2
DES. APPROV. NO. 1		PLANNING	EST. APPROV. NO. 1	FD-115(11)

INDEX OF SHEETS

- |                  |   |
|------------------|---|
| <u>Sheet No.</u> |   |
| 1.               | Cover Sheet.                                |
| 2.               | Index of Sheets; Summary of Quantities.     |
| 3.               | Plan-Profile Sheet Station 150+00 to 180+00 |
| 4 to 10.         | Special Bridge Design Station 169+75.95     |

SUMMARY OF QUANTITIES

275,260	Lbs.	Structural Steel
426	Lin. Ft.	Metall Handrail

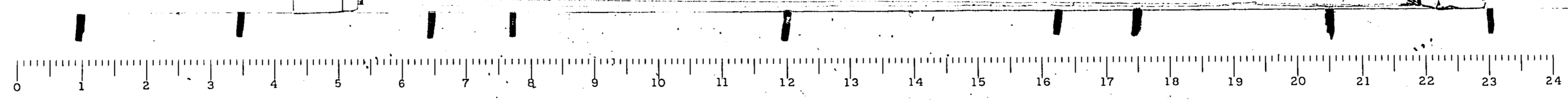
PREPARED BY *M.P. Boulden*  
DIST. DESIGN ENGINEER

EXAMINED BY *Acorn J. Davore*  
DIST. CONSTR. ENGINEER

EXAMINED BY *R. H. Hurlston*  
DIST. MAINT. ENGINEER

EXAMINED BY *B. W. Sellar*  
DIST. TRAFFIC ENGINEER

APPROVED *May 27, 1954*  
*Wm. D. McLeod*  
DISTRICT ENGINEER



FOR INFORMATION ONLY

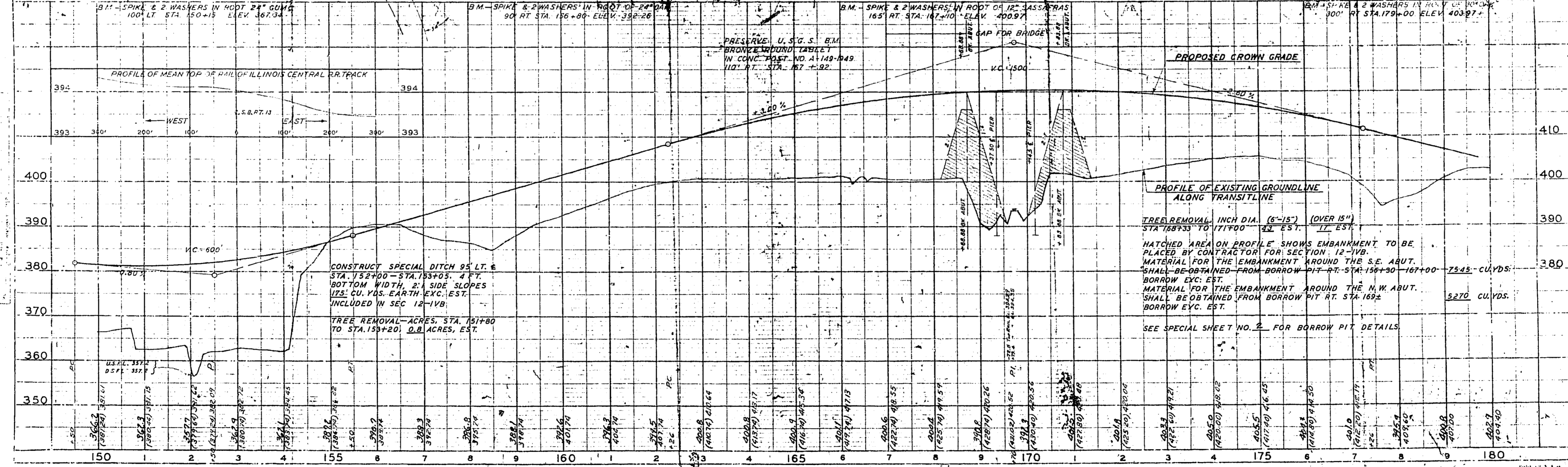
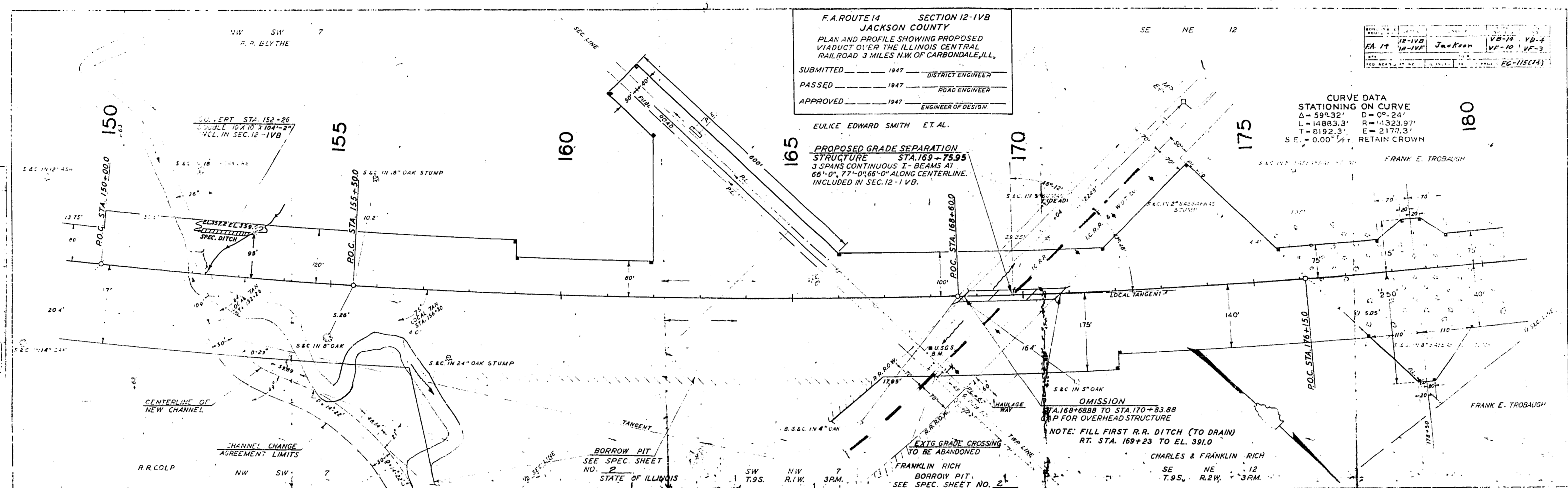
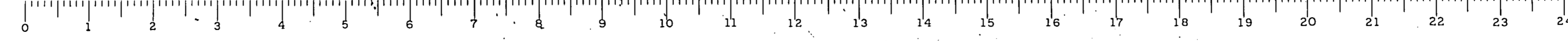
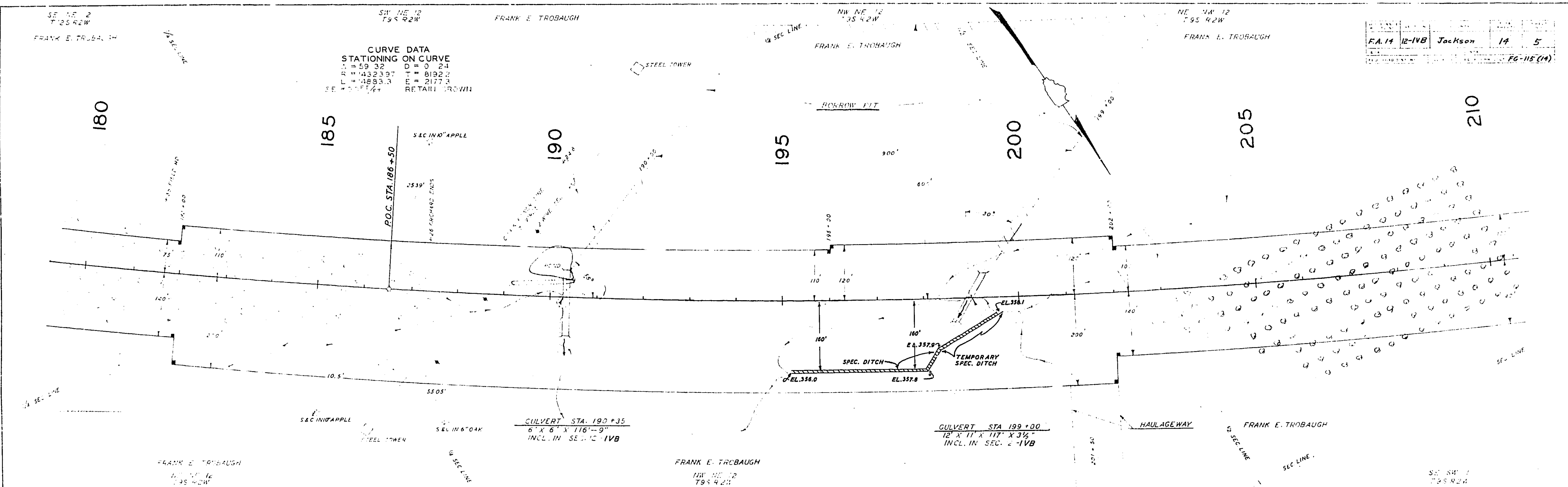


PLATE - PLAN PROFILE OF F.A. ROUTE 14

F.A. RT. 14 SEC. 12-1VB JACKSON COUNTY STA. 150-180



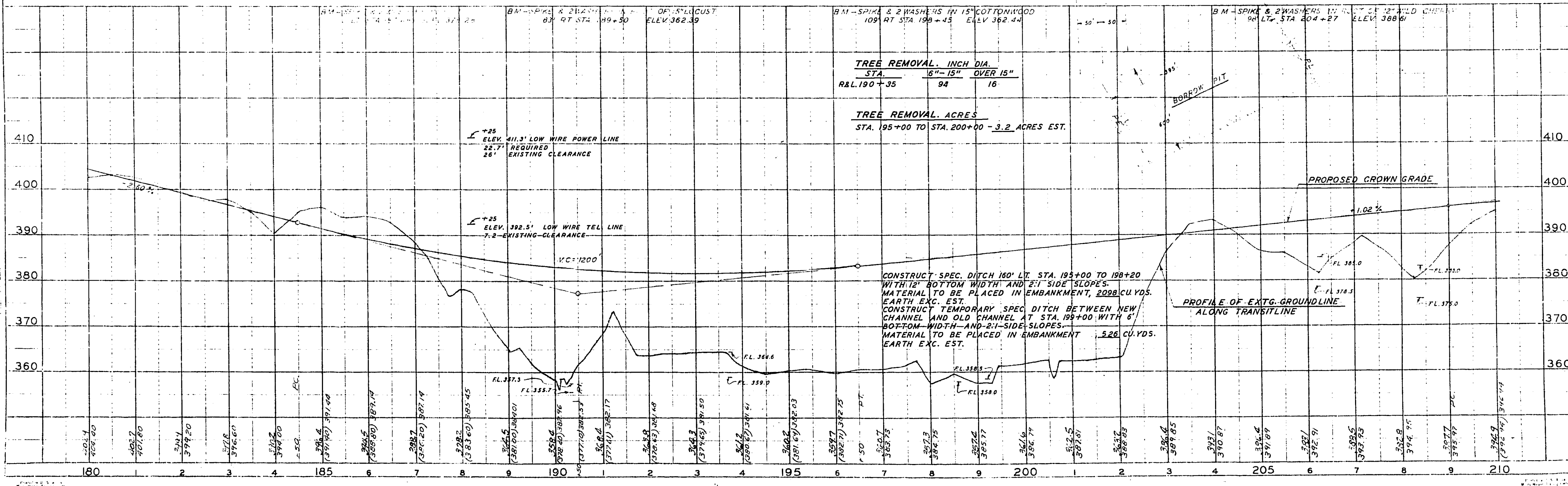
FOR INFORMATION ONLY



**CURVE DATA  
STATIONING ON CURVE**

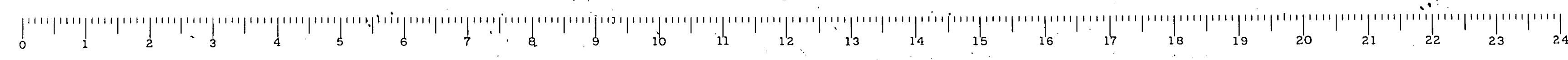
PC	185.35
PT	189.35
PI	187.35
LC	187.35
EA	188.35
EB	189.35
RETAIN. POINT	187.35

FA. 14	12-1VB	Jackson	14	5
PG. 115 (14)				



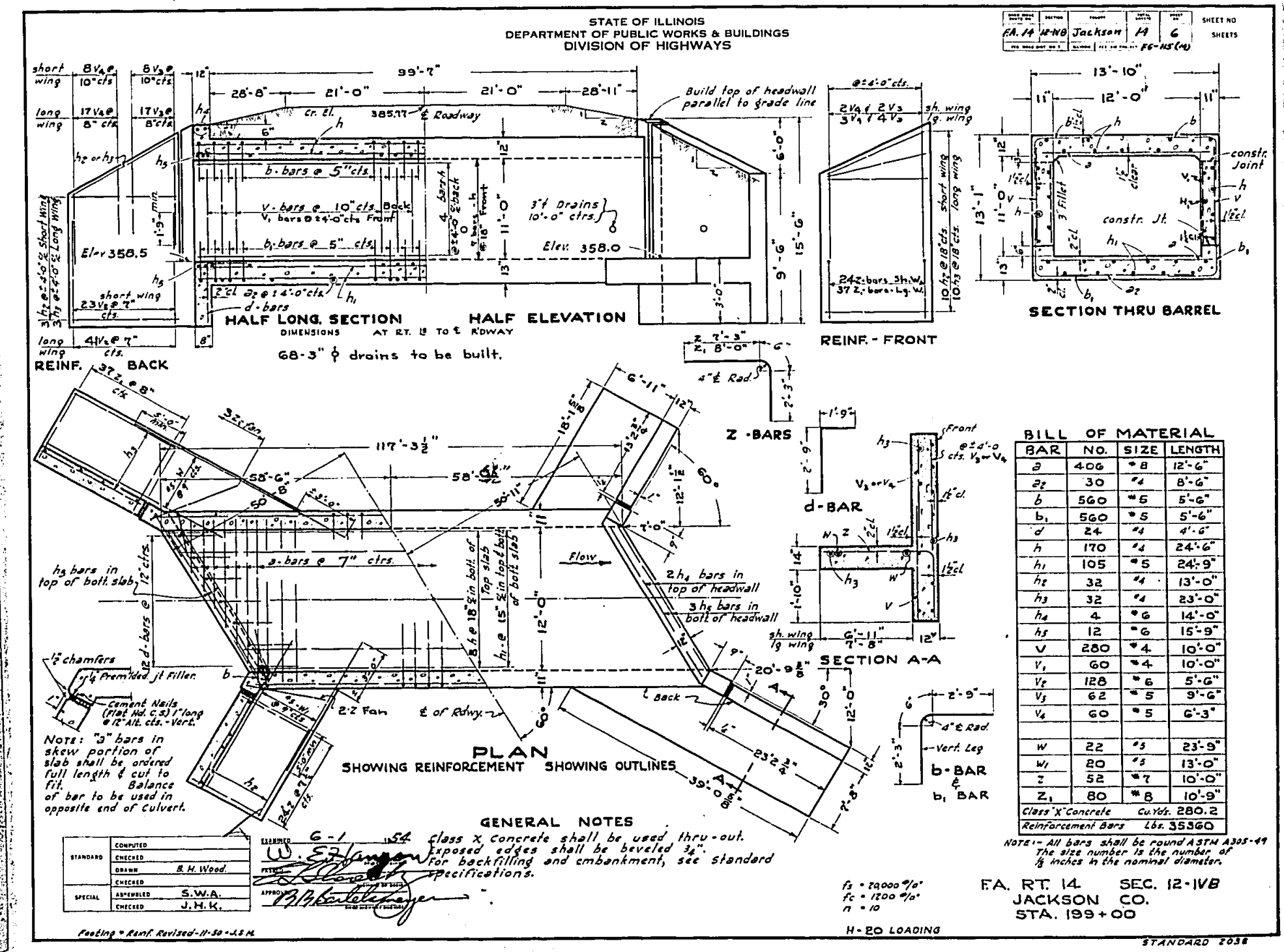
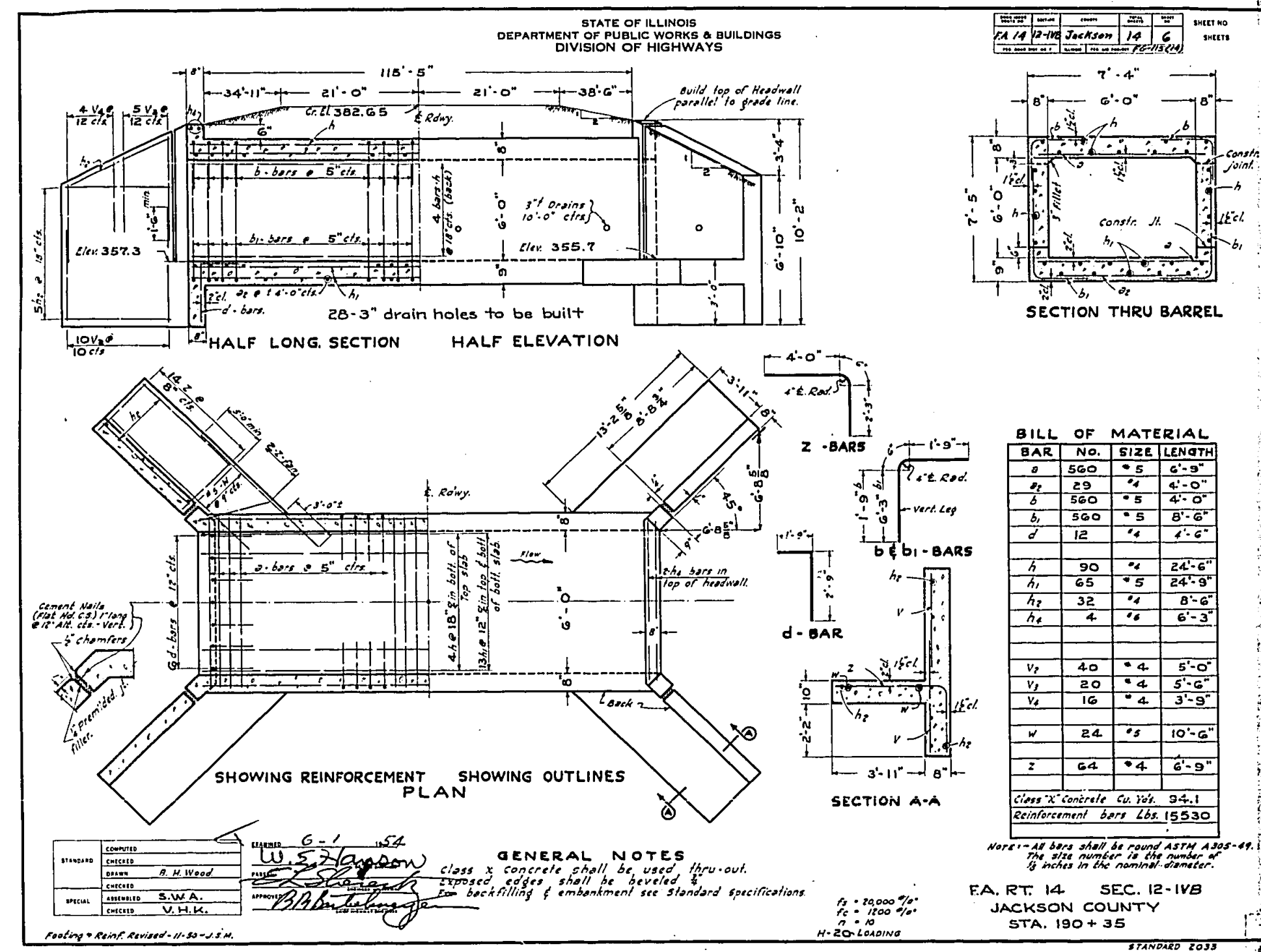
PLAN  
SCALE: 1" = 40'

PROFILE  
SCALE: 1" = 10'

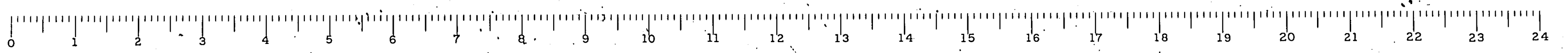


F.A. RT. 14 SEC. 12-1VB JACKSON COUNTY STA. 180-210

FOR INFORMATION ONLY

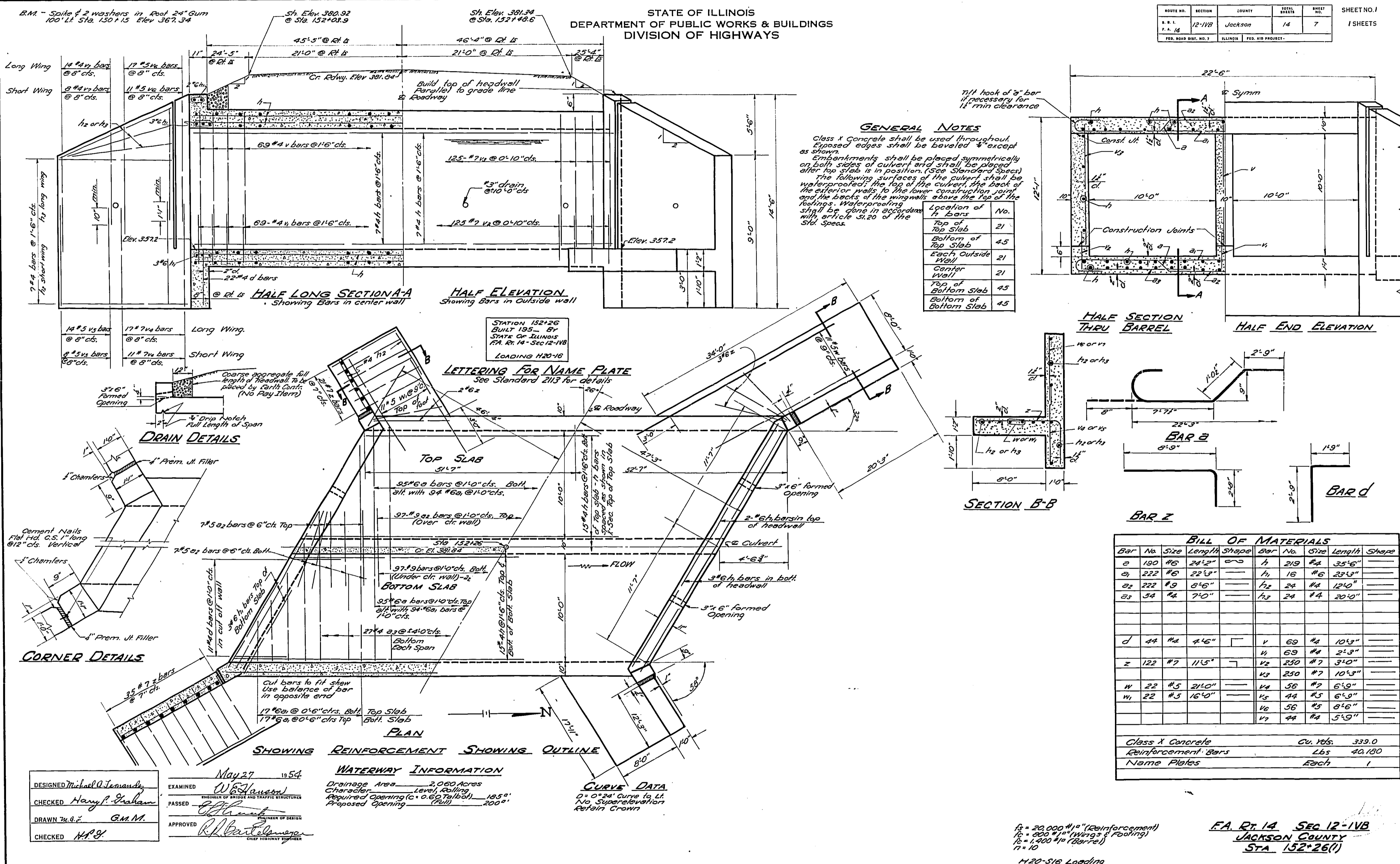


FOR INFORMATION ONLY

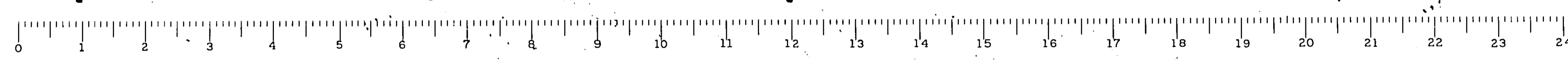


STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-118		Jackson	14	7
SHEETS				



FOR INFORMATION ONLY





E.M. Spike and 2 Washers in Roof of 12" Cast-in-place  
 165' Rt. Sta. 167+10  
 Elev. 400.97

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. R. 14	12-IVB	Jackson	14	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		7 SHEETS

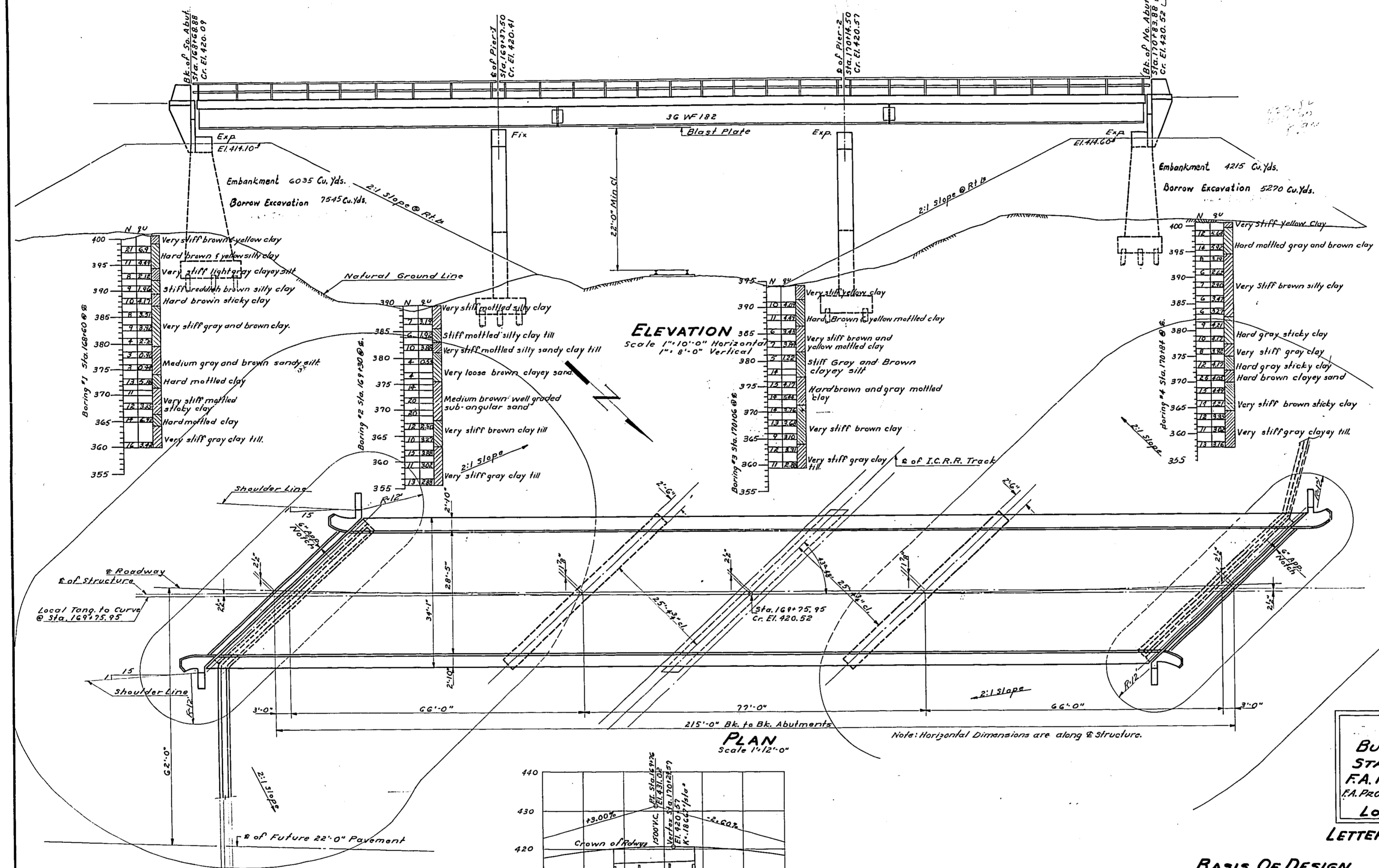
GENERAL NOTES

Class X Concrete shall be used throughout except in End Posts.  
 Handrail Concrete shall be used in End Posts.  
 The Concrete Floor Slab shall be finished in accordance with Art. 518(6) of the Standard Specifications and shall be poured in one continuous operation on either side of the longitudinal construction joint.  
 All connections shall be riveted except as noted.  
 Rivets shall be 3/4" Open Holes 1/2" unless noted.  
 All rollers, rockers, bearing plates, lead plates, pintles and anchor bolts shall be fabricated and set in accordance with Art. 514 of the Standard Specifications and are included for payment as Structural Steel.  
 Anchor Bolts shall be set before rising diaphragms over supports.  
 Railings shall be adjusted to true alignment after curbs have been poured.  
 Expansion Guards shall be fabricated and erected in accordance with Art. 512 of the Standard Specifications.  
 Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of Aluminum paint. See Art. 521 to 525, inc. of the Standard Specifications.  
 All paint shall be furnished and applied by Contractor.  
 Welding shall comply with Art. 55.4(b) of the Standard Specifications.  
 The Contractor shall drive two test piles at directed by the Engineer before ordering remainder of piles.  
 Before superstructure is placed, construction embankment in accordance with Art. 16 of the Standard Specification.  
 Boring Data are shown on the drawings only as a guide to bidders in estimating soil conditions which may be encountered in the work.

Note: N = Blows Per Foot of Penetration of sampling spoon, Nammur Weight = 350 lbs. Drop 12 inches  
 90° Unconfined compressive strength in tons per square foot.

TOTAL BILL OF MATERIAL

ITEM	SEC. 12-IVB	SEC. 12-IVF
Class X Concrete	Cu.Yds. 612.6	
Handrail Concrete	Cu.Yds. 1.6	
Reinforcement Bars	Lbs. 63,900	
Structural Steel	Lbs. 275,260	275,260
Metal Handrail	Lin.Ft. 426	426
Name Plates	Each 1	
Class A Excavation for Structures	Cu.Yds. 770	
Borrow Excavation	Cu.Yds. 12815	
Crossed Piles	Lin.Ft. 2905	
Test Piles (Timber)	Each 2	



I.C.R.R.  
 BUILT 195 BY  
 STATE OF ILLINOIS  
 F.A. RT. 14 SEC. 12-IVB  
 (A. PROJ. FG-115(14) - STA. 169+75.95  
 LOADING H20-S16

LETTERING FOR NAME PLATE  
 See Standard No. 2113

BASIS OF DESIGN

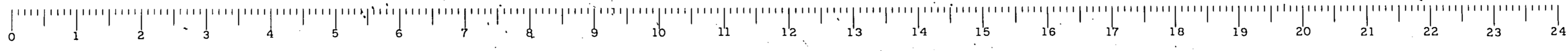
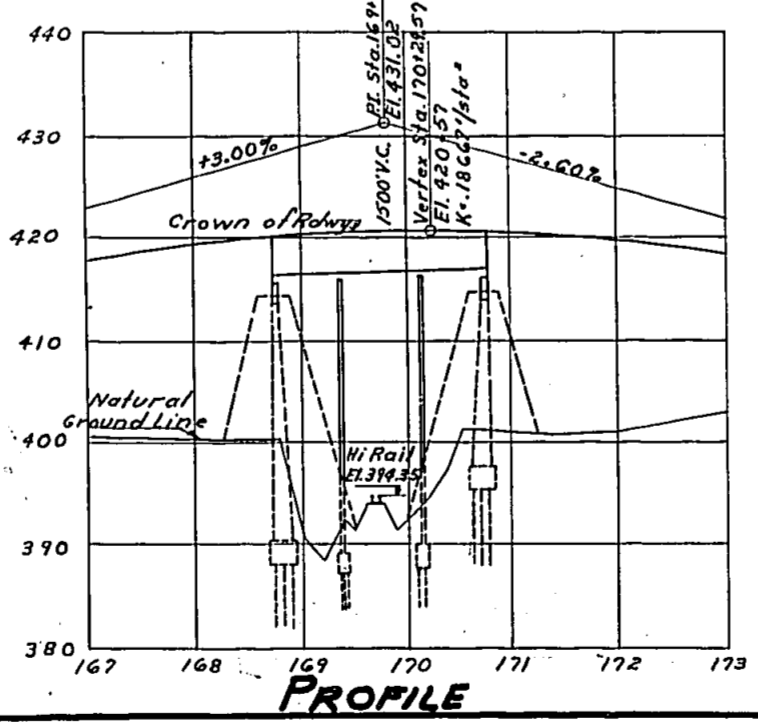
F<sub>s</sub> = Structural Steel 18,000 psi  
 F<sub>s</sub> = Reinforcement Bars 20,000 psi  
 F<sub>c</sub> = Superstructure 4,500 psi  
 F<sub>c</sub> = Substructure 800 psi  
 W = 10

HIGHWAY CURVE DATA

A = 59'-32" D = 0'-24"  
 L = 14,833.3' R = 14,933.97'  
 T = 8,192.3' E = 2,177.3'  
 RETAIN CROWN  
 S.E. 0.00 1/1%

GENERAL PLAN AND ELEVATION  
 PROJECT FG-115(14)  
 F.A. RT. 14 SECTION 12-IVB-F  
 I.C.R.R. OVERHEAD - NW. OF CARBONDALE  
 JACKSON COUNTY  
 STA. 169+75.95

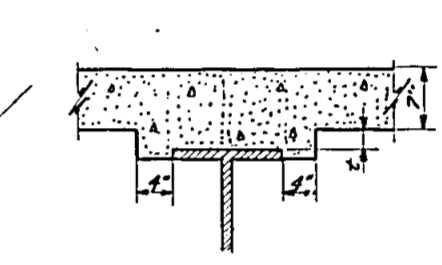
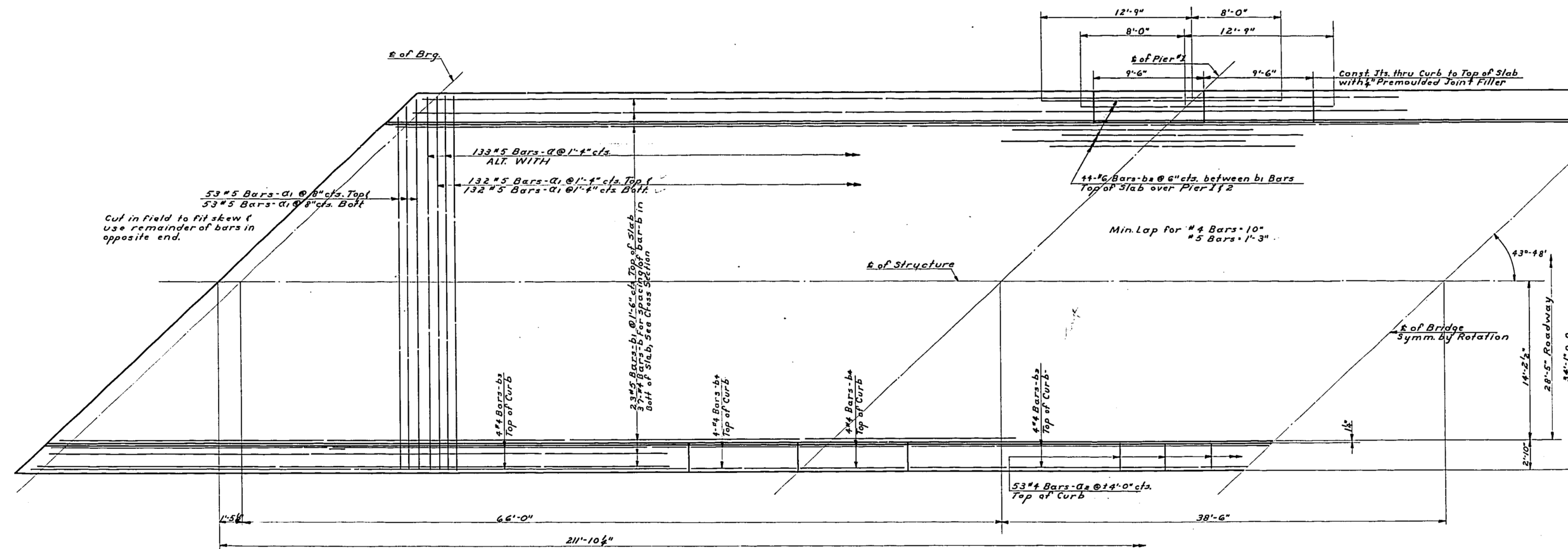
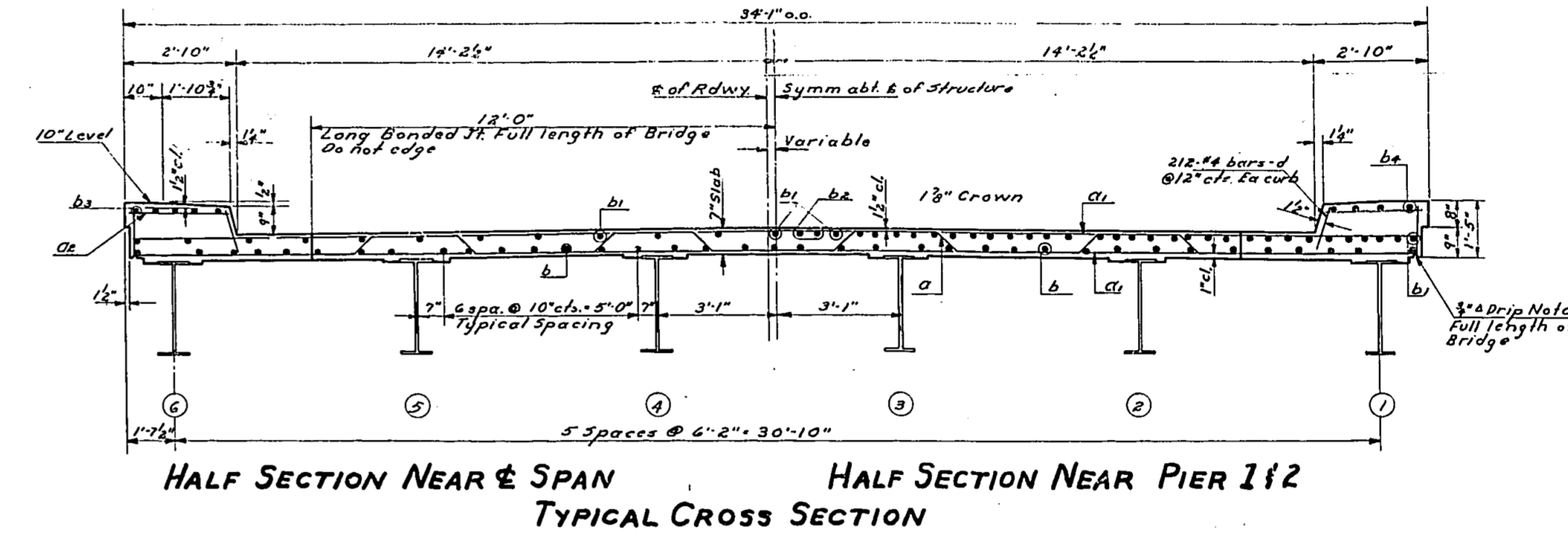
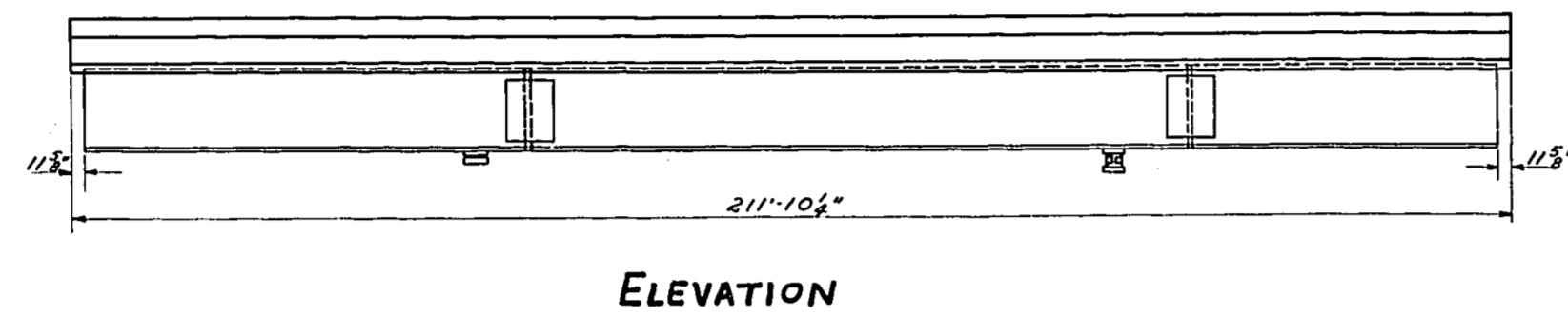
DESIGNED	R.H. Tolson	EXAMINED	May 19 1954 W.E. Hansen
CHECKED	M. Vedat Colton	PASSED	
DRAWN	R.H. Tolson & Associates	APPROVED	
CHECKED	V.C.		



FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R. & L. 14	12-IVB	Jackson	14	9
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		7 SHEETS



**METHOD OF DETERMINING FILLET HEIGHT "L"**  
After all structural steel has been erected elevations of the top of flanges of the beams shall be taken at intervals not to exceed 10 ft. From these elevations subtract the increment of deflections for these points determined from the D.L. Deflection Diagram. The elevations so obtained subtracted from the theoretical grade elevations, minus floor thickness equals the fillet height "L" above top of beam.

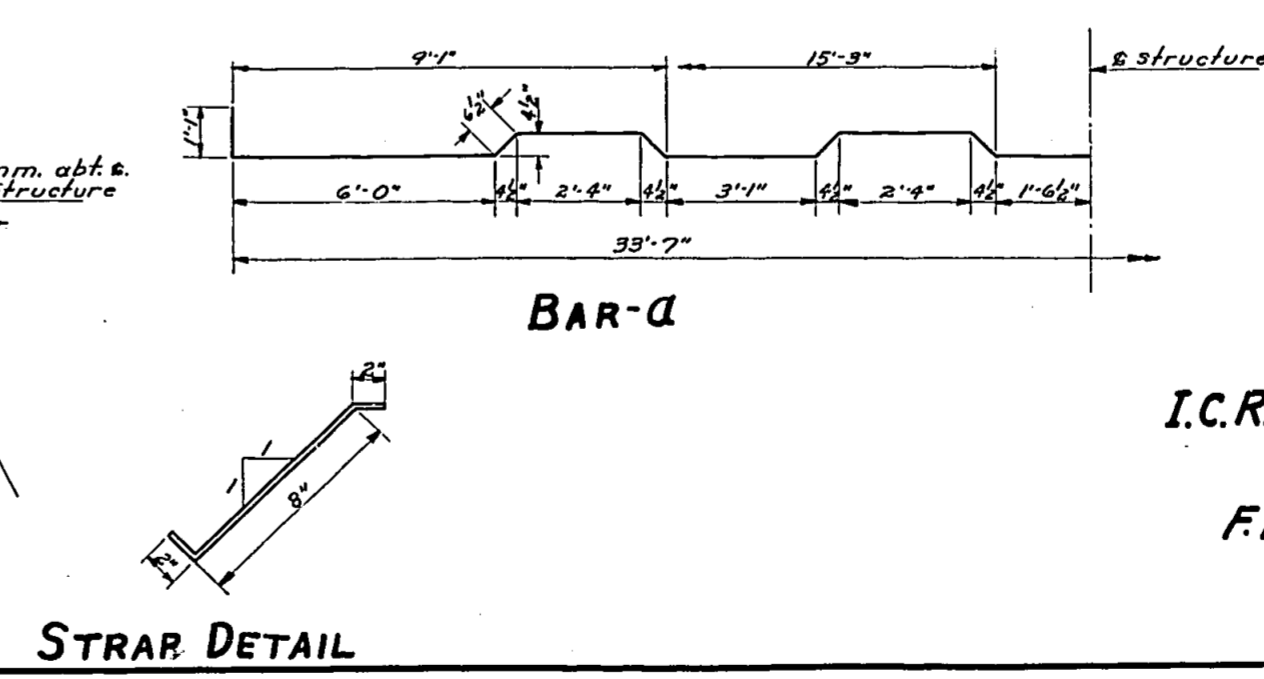
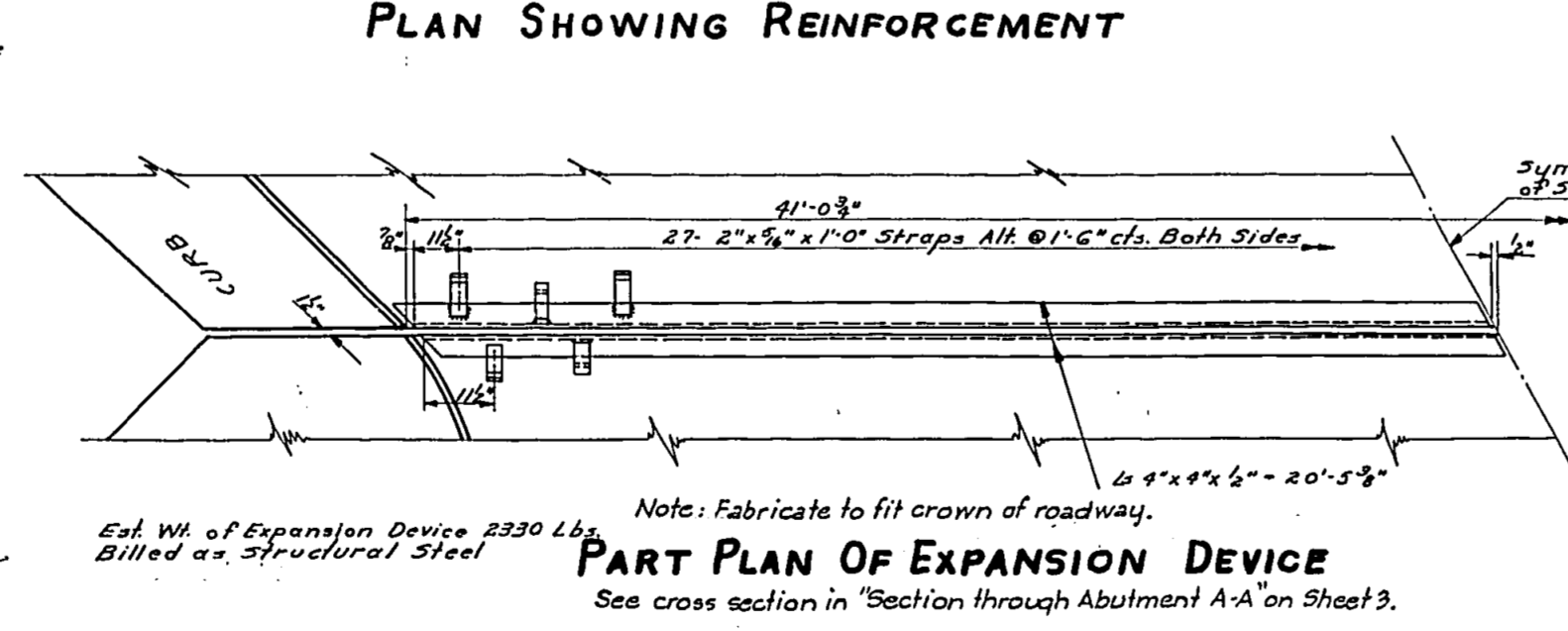
**BILL OF MATERIAL**

BAR	NO	SIZE	LENGTH	SHAPE
a	133	#5	37'-7"	
d	370	#5	33'-7"	
d <sub>2</sub>	106	#6	2'-6"	
b	296	#4	27'-3"	
b <sub>1</sub>	182	#5	31'-6"	
b <sub>2</sub>	88	#6	20'-9"	
b <sub>3</sub>	64	#6	30'-9"	
b <sub>4</sub>	32	#6	9'-3"	
d	424	#4	1'-0"	
Class X Concrete				Cu. Yds. 201.6
Reinforcement Bars				Lbs. 34190
Structural Steel				Lbs. 275260

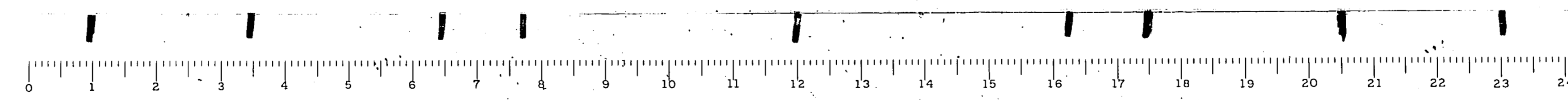
**D.L. DEFLECTION DIAGRAM**

DESIGNED *P.H. Tolson*  
CHECKED *M. Vedat Gokun*  
DRAWN *P.H. Tolson, C. Grossch*  
CHECKED *V.C.*

EXAMINED *May 19 1954*  
*W.B. Hamard*  
PASSED *[Signature]*  
APPROVED *[Signature]*



**SUPERSTRUCTURE**  
**I.C.R.R. OVERHEAD - N.W. OF CARBONDALE**  
**PROJECT**  
**F.A. RT. 14 SECTION 12-IVB-F**  
**JACKSON COUNTY**  
**STA. 169+75.95**

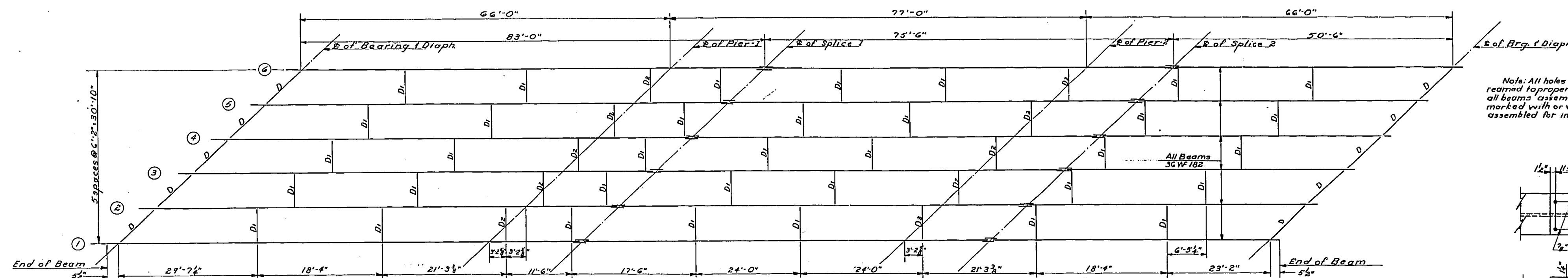


FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

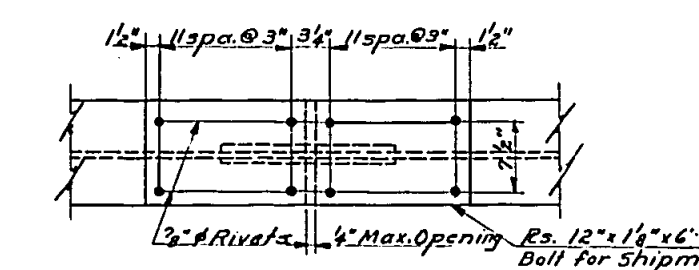
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
12-IVB	14	Jackson	14	10
12-IVB	14	Jackson	10	0

SHEET NO. 3  
7 SHEETS

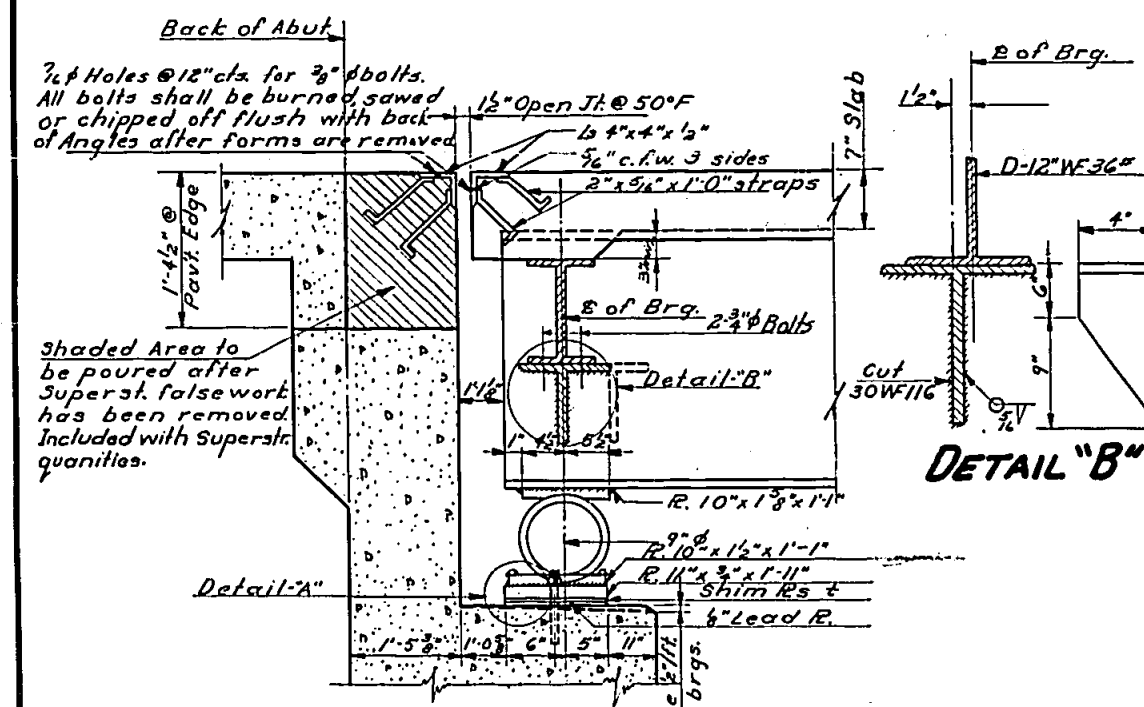


LAYOUT OF STRUCTURAL STEEL

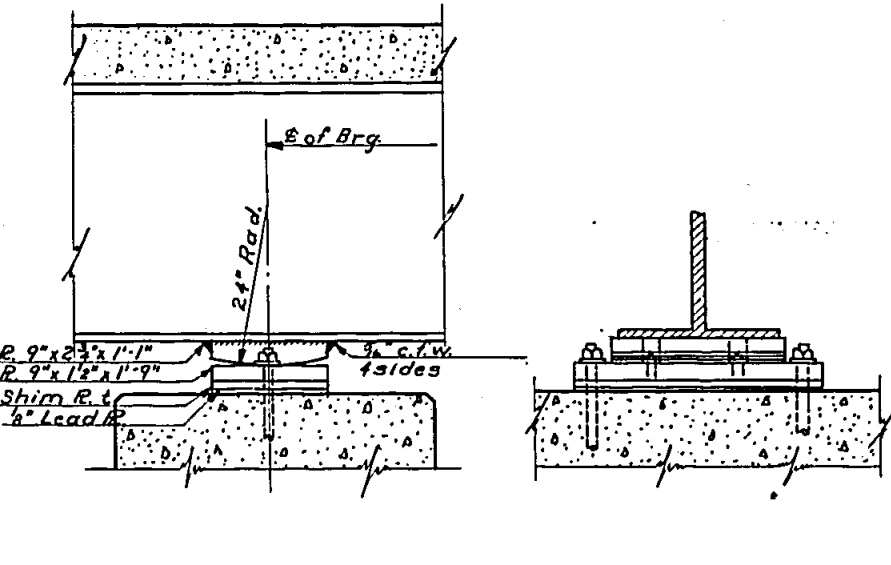
Note: All holes for splices shall be punched  $\frac{1}{8}$ " and reamed to proper size  $\frac{1}{8}$ " in web and  $\frac{1}{4}$ " in flange with all beams assembled in shop in proper position and match marked with or without diaphragms in place and leave assembled for inspection.



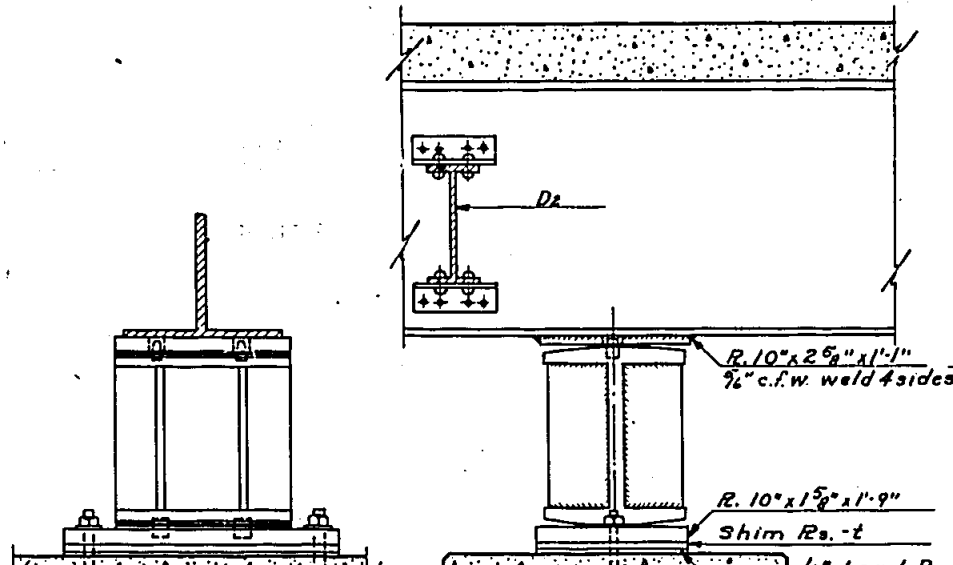
DETAIL OF SPLICE



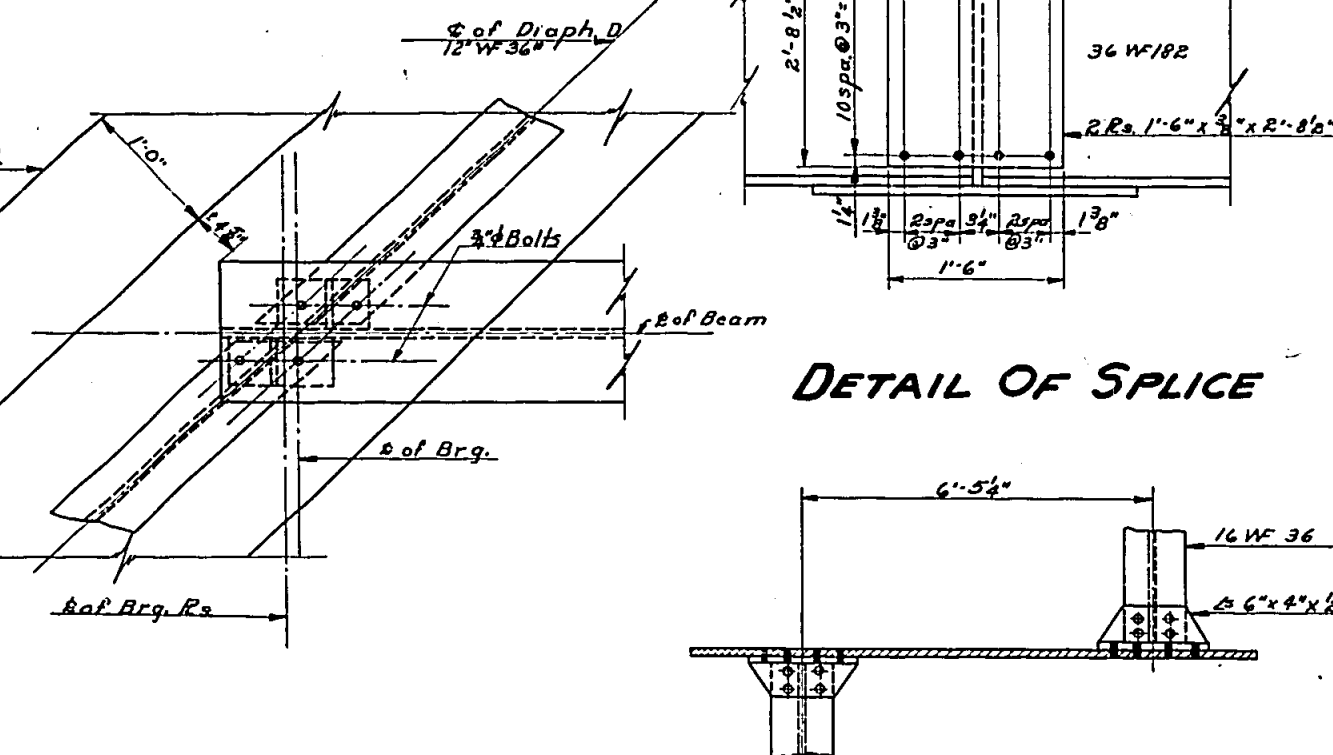
SEC. THRU ABUTMENT A-A



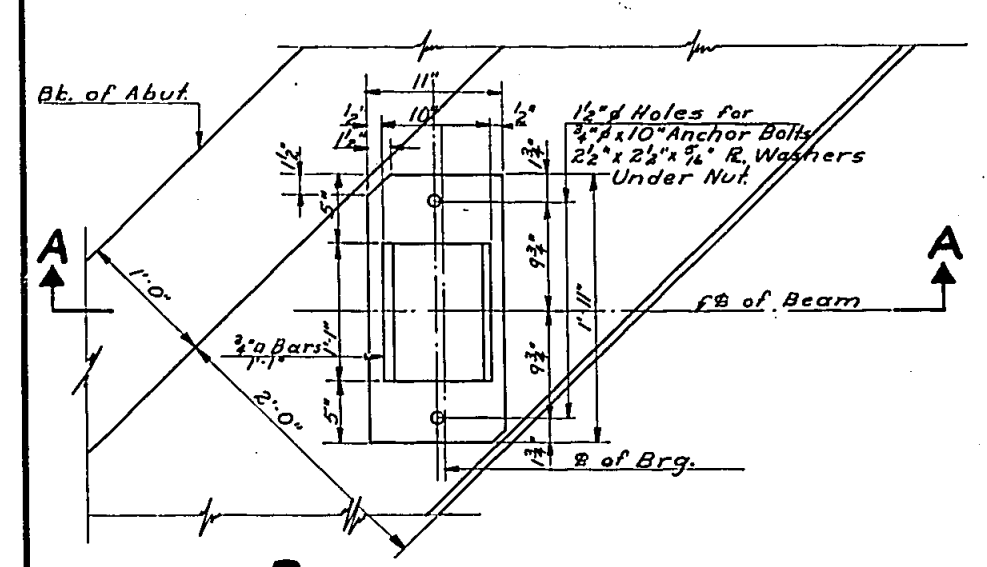
PIER No. 1 SECTION



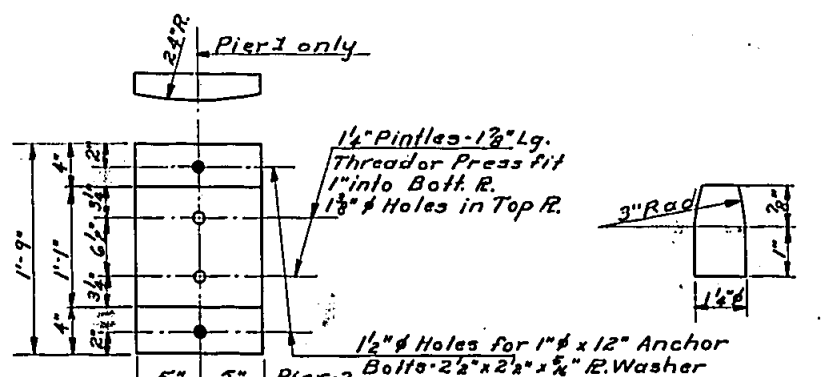
PIER No. 2 SECTION



DETAILS OF DIAPHRAGM

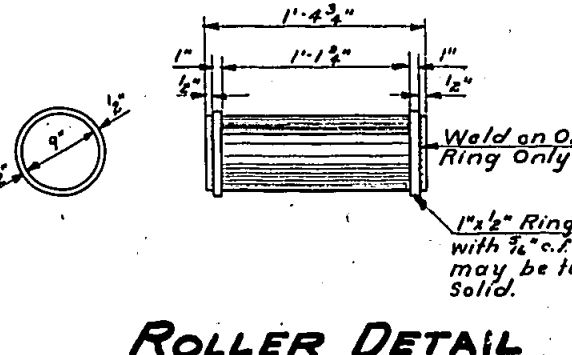


PLAN

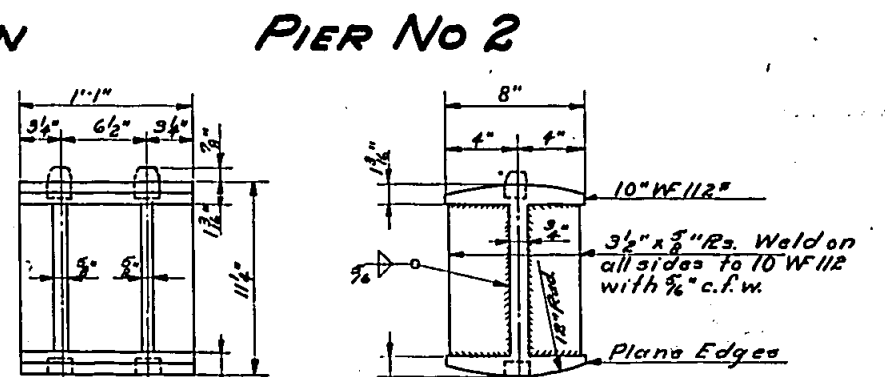


PINTLE DETAIL

Top & Bott. Rs. PIERS 1 & 2



ROLLER DETAIL



ROCKER DETAIL

BEAM NO.	1	2	3	4	5	6
So. Abut.						
Pier 1	4"	3"	5"	3"	15"	
Pier 2						
No. Abut.	4"	3"	5"			

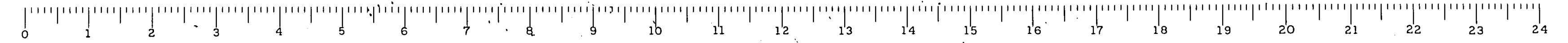
DESIGNED: *R.H. Nelson*  
CHECKED: *M. V. Colton*  
DRAWN: *R.H. Nelson, C. Green*  
CHECKED: *V.C.*

EXAMINED: *W.G. Hanson*  
PASSED: *[Signature]*  
APPROVED: *R.H. Nelson*

May 19 1954

STRUCTURAL STEEL  
I.C.R.R. OVERHEAD - N.W. OF CARBONDALE  
PROJECT  
F.A. Rt. 14 SECTION 12-IVB-F  
JACKSON COUNTY  
STA. 169+75.95

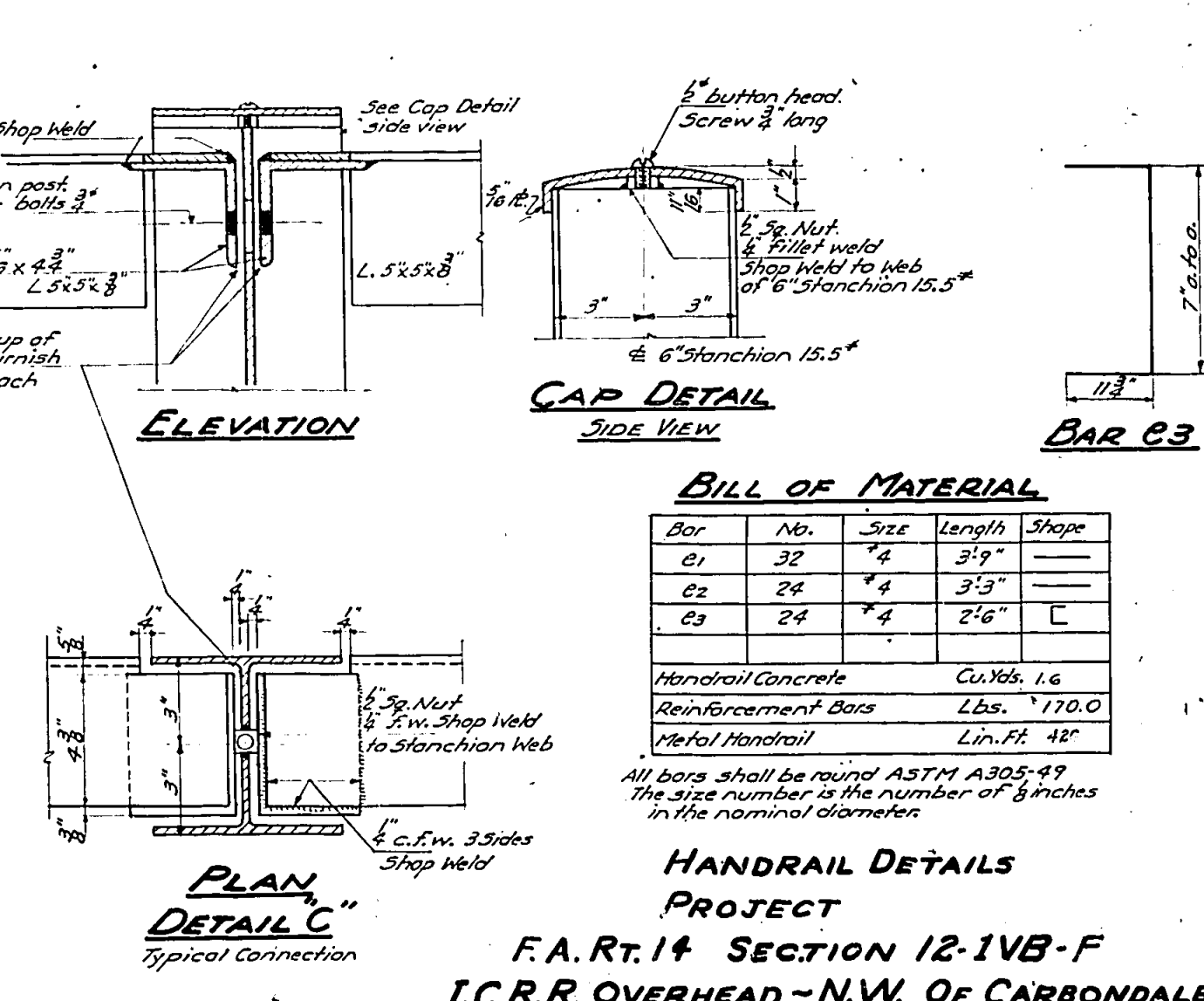
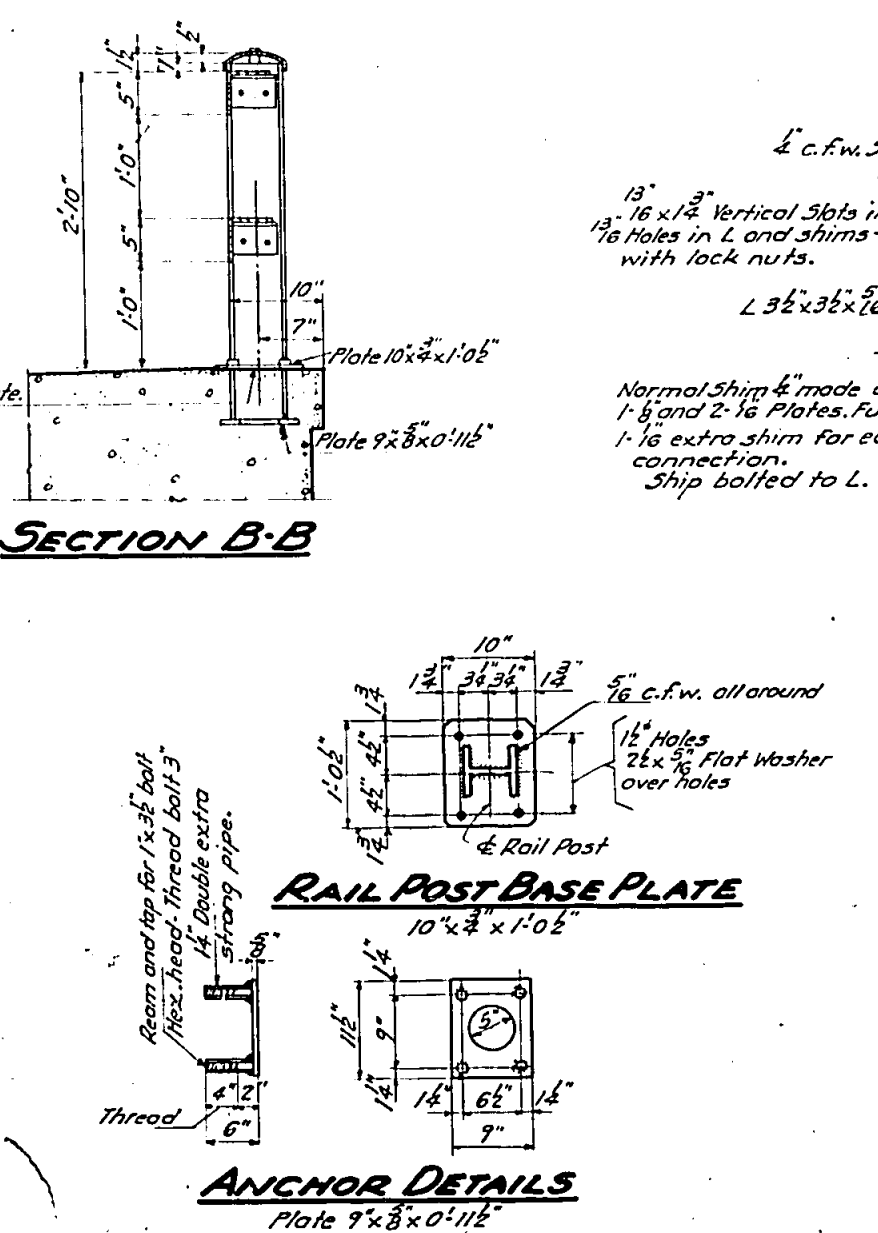
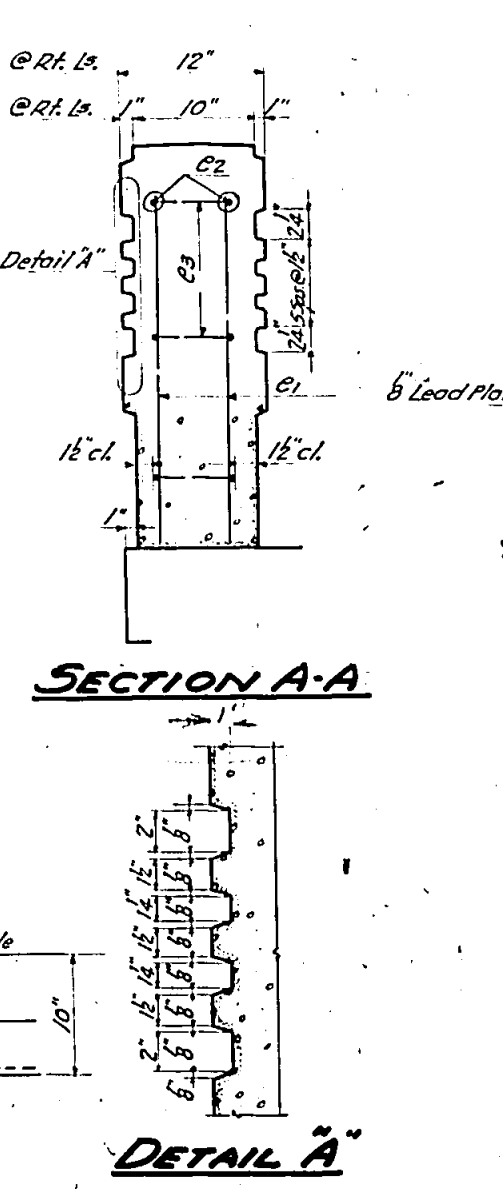
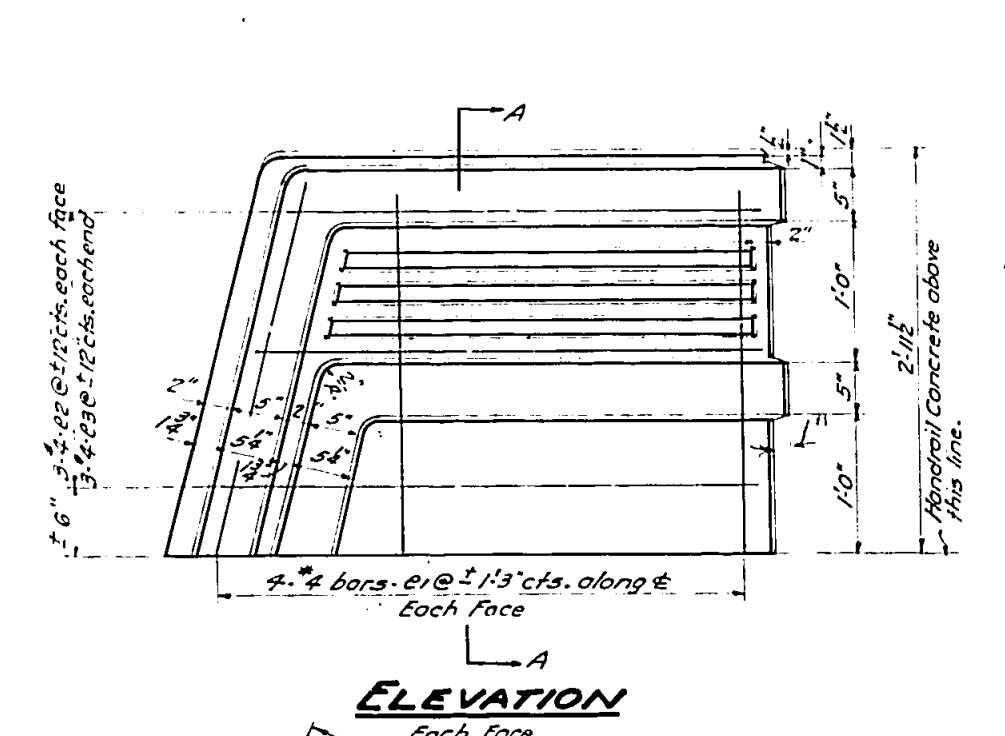
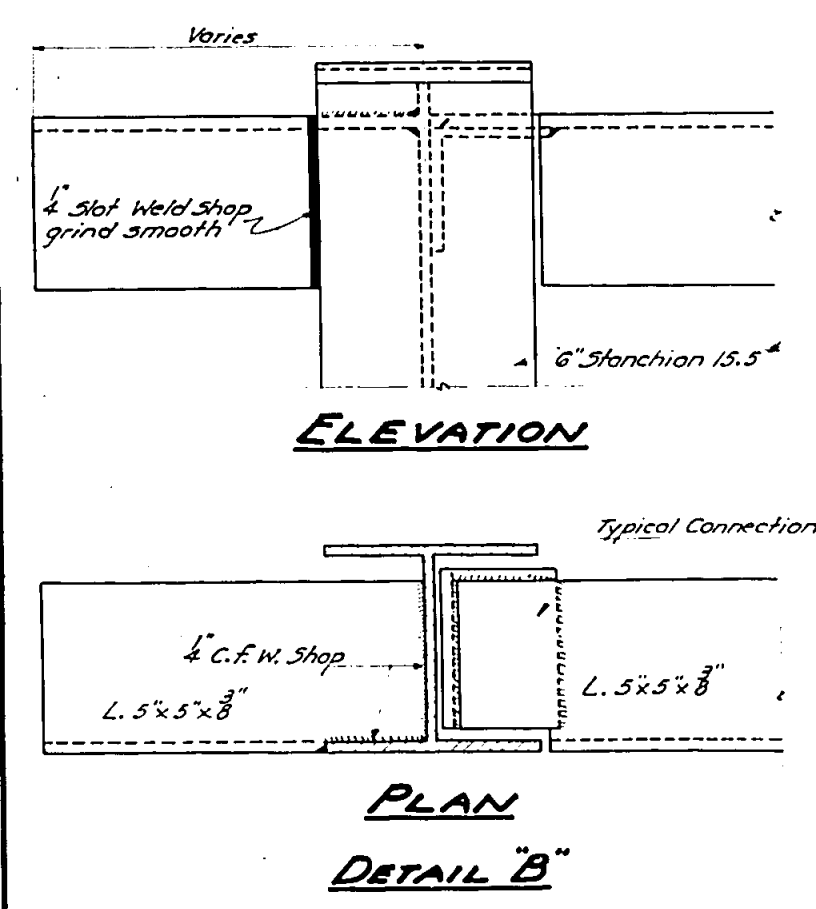
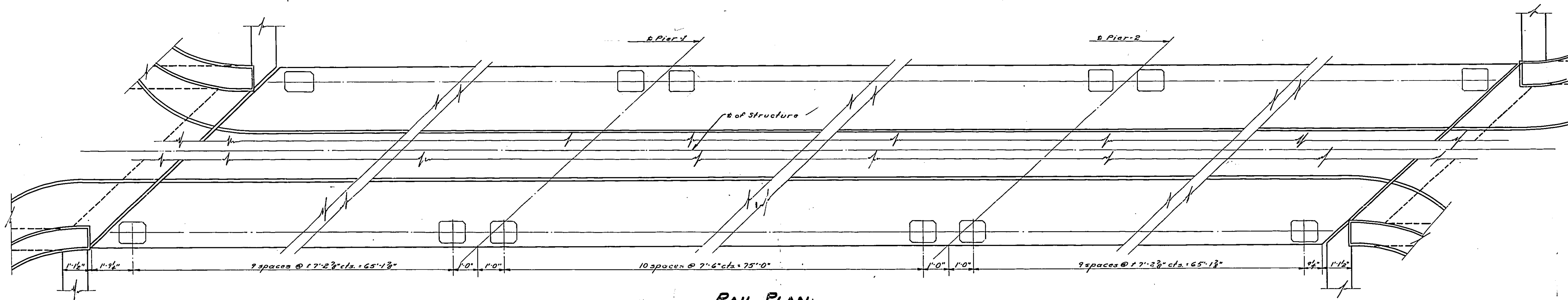
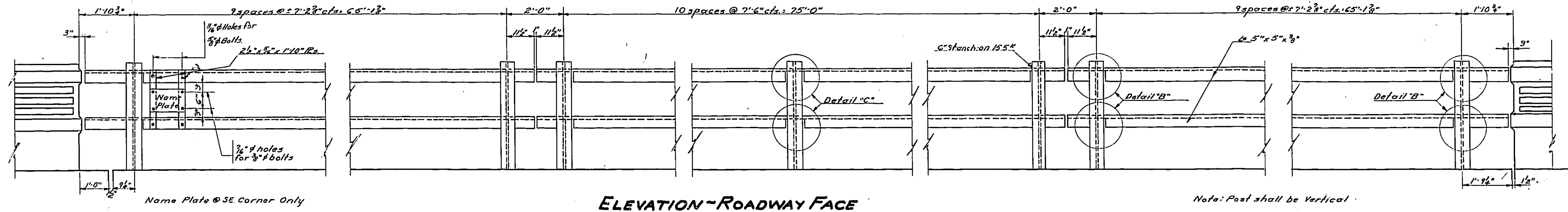
\*All Structural Steel included for payment on sheet 72 Est. Wt. 259000 Lbs.



FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT: JACKSON  
SHEET NO: 4  
7 SHEETS



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
B1	32	4"	3'-9"	
B2	24	4"	3'-9"	
B3	24	4"	2'-6"	C

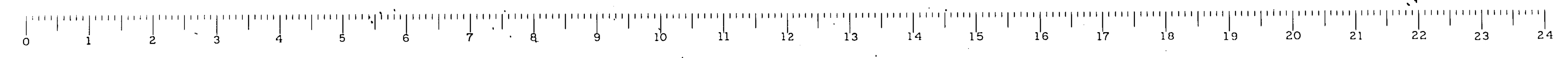
Handrail Concrete Cu. Yds. 1.6  
Reinforcement Bars Lbs. 170.0  
Metal Handrail Lin. Ft. 48'

All bars shall be round ASTM A305-99  
The size number is the number of 8 inches in the nominal diameter

**HANDRAIL DETAILS PROJECT**  
F.A. RT. 14 SECTION 12-1VB-F  
I.C.R.R. OVERHEAD - N.W. OF CARBONDALE  
JACKSON COUNTY  
STATION 169+75.95

DESIGNED: R.A. Tolson  
CHECKED: M. Vidot Colson  
DRAWN: H. Miller, F. Groesch  
CHECKED: V.C.

EXAMINED: May 19 1934  
PASSED: W.E. Hanson  
APPROVED: R.R. Belding

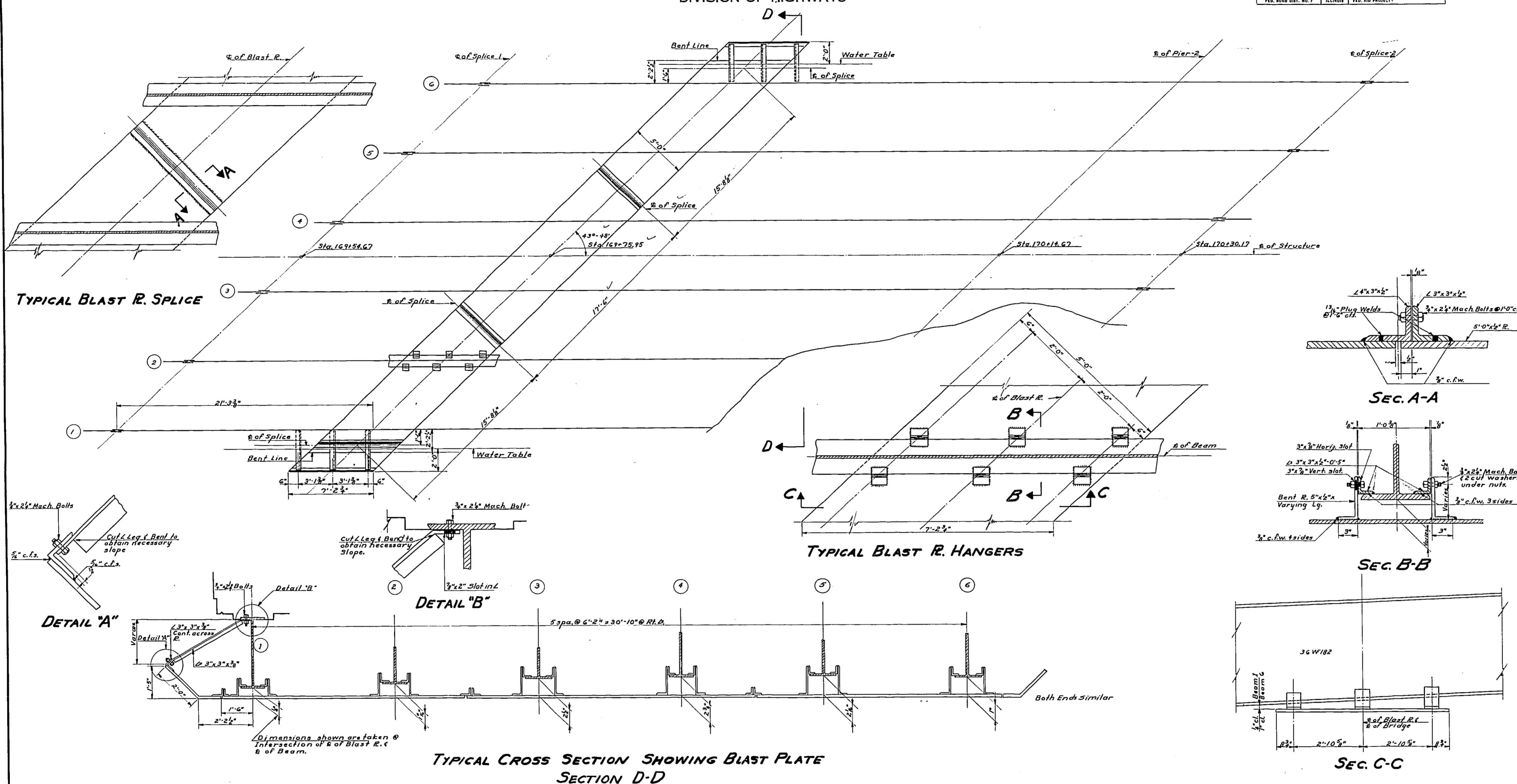


FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
F.A.R. 14	12-11B	Jackson	14	12	8
F.A.R. 14	12-11F	Jackson	14	12	8

SHEET NO. 5  
7 SHEETS



DESIGNED *R.H. Rehn*  
CHECKED *M. Vedat Cook*  
DRAWN *R.H. Rehn Karasch*  
CHECKED *V.C.*

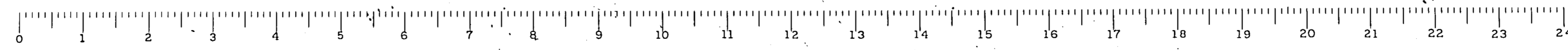
EXAMINED *W.F. Haines*  
PASSED *E. J. ...*  
APPROVED *R.H. ...*

May 19 1954

NOTE: Blast Plates shall be 1/2" thick and shall conform to A.S.T.M. Standard Specifications A.7 for Structural Steel except that 2% copper shall be added.  
All Connection plates, Angles, Bolts and nuts shall be paid for at the Unit Price Bid for Structural Steel. The weight of Blast Plates and Accessories, which are included in the Bill of Material on Sheet "Eas Structural Steels 1910".  
All Bolts, Washers and Nuts shall be galvanized.  
Blast Plates shall be painted one shop coat of red lead paint and one field coat of tinted red lead and one coat of black graphite paint.  
Blast Plates shall be level.

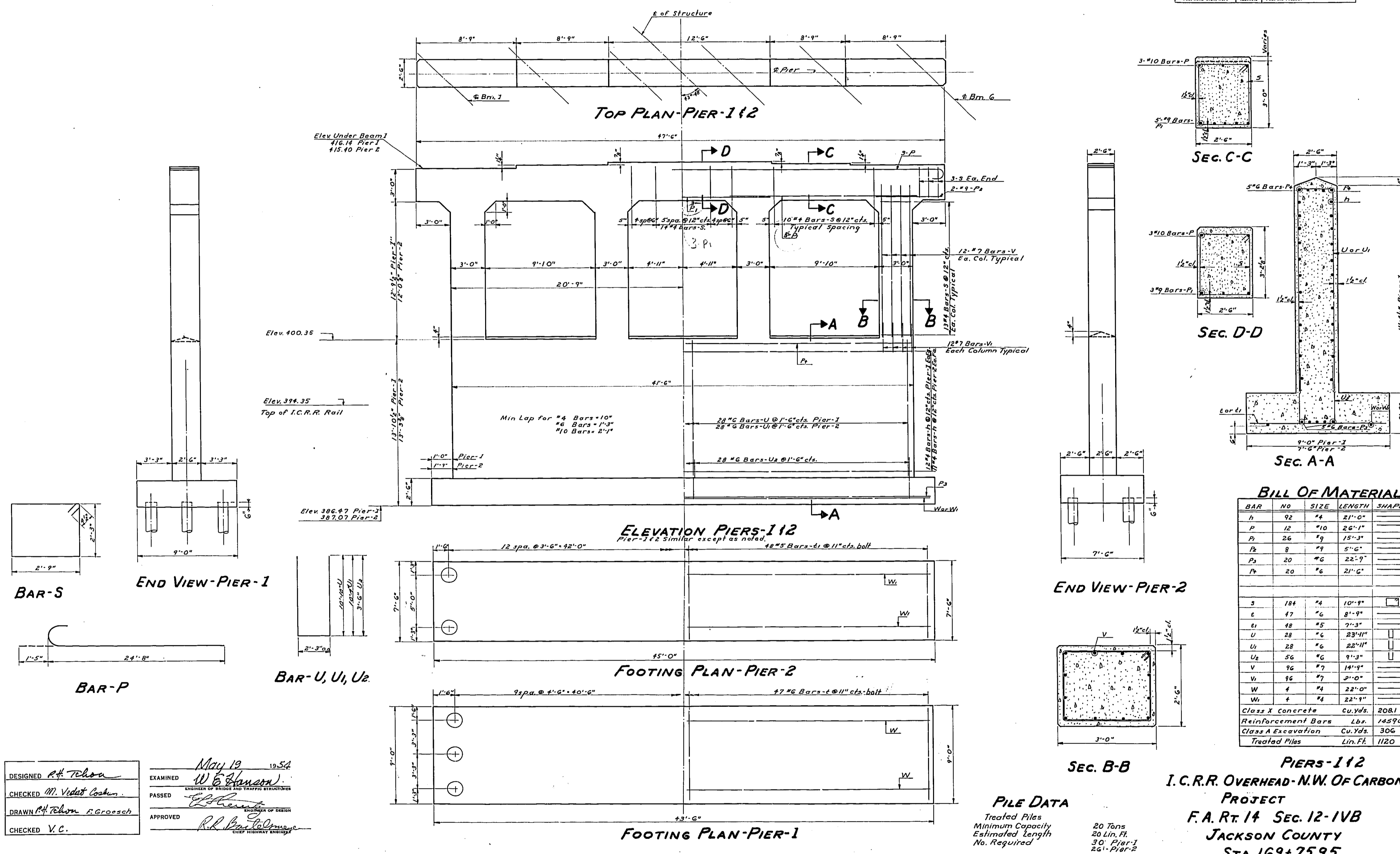
**BLAST PLATE PROJECT**  
F.A.R. 14 SEC. 12-11B-F  
I.C.R.R. OVERHEAD N.W. OF CARBONDALE  
JACKSON COUNTY  
STA. 169+75.95

FOR INFORMATION ONLY



STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-118	12-117	Jackson	12	13
SHEET NO. 6 7 SHEETS				



**BILL OF MATERIAL**

BAR	NO	SIZE	LENGTH	SHAPE
h	92	#4	21'-0"	
p	12	#10	26'-1"	
P1	26	#9	15'-3"	
P2	8	#9	5'-6"	
P3	20	#6	22'-9"	
P4	20	#6	21'-6"	
s	184	#4	10'-9"	
t	47	#6	8'-9"	
u	48	#5	7'-3"	
U	28	#6	23'-11"	
U1	28	#6	22'-11"	
U2	56	#6	9'-3"	
V	36	#7	14'-1"	
V1	16	#7	3'-0"	
W	4	#4	22'-0"	
W1	4	#4	22'-1"	
Class X Concrete		Cu. Yds.	2081	
Reinforcement Bars		Lbs.	14590	
Class A Excavation		Cu. Yds.	306	
Treated Piles		Lin. Ft.	1120	

**PILE DATA**  
Treated Piles  
Minimum Capacity  
Estimated Length  
No. Required

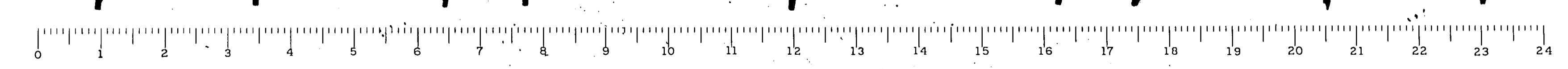
20 Tons  
20 Lin. Ft.  
30' Pier-1  
24' Pier-2

**PIERS-112**  
**I. C. R. R. OVERHEAD-N.W. OF CARBONDALE**  
**PROJECT**  
**F. A. Rt. 14 Sec. 12-1VB**  
**JACKSON COUNTY**  
**STA. 169+75.95**

DESIGNED *A. F. Tolson*  
CHECKED *M. Vidot Cookin*  
DRAWN *A. F. Tolson F. Groesch*  
CHECKED *V. C.*

EXAMINED *W. E. Sawyer*  
PASSED  
APPROVED *R. B. Caldwell*

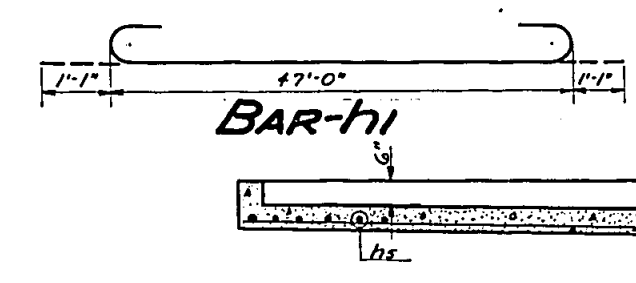
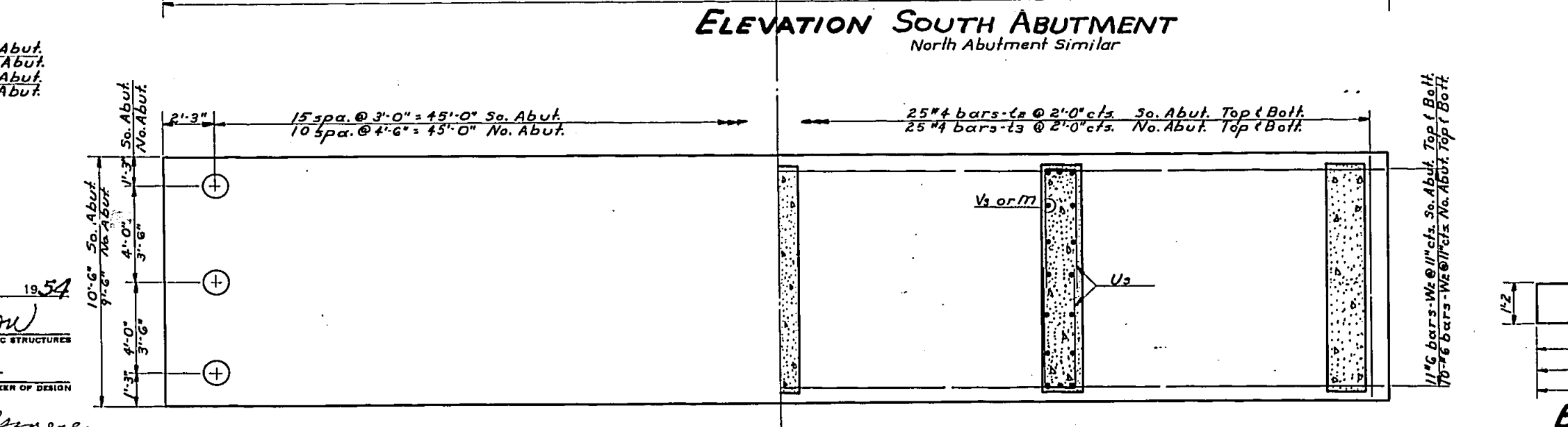
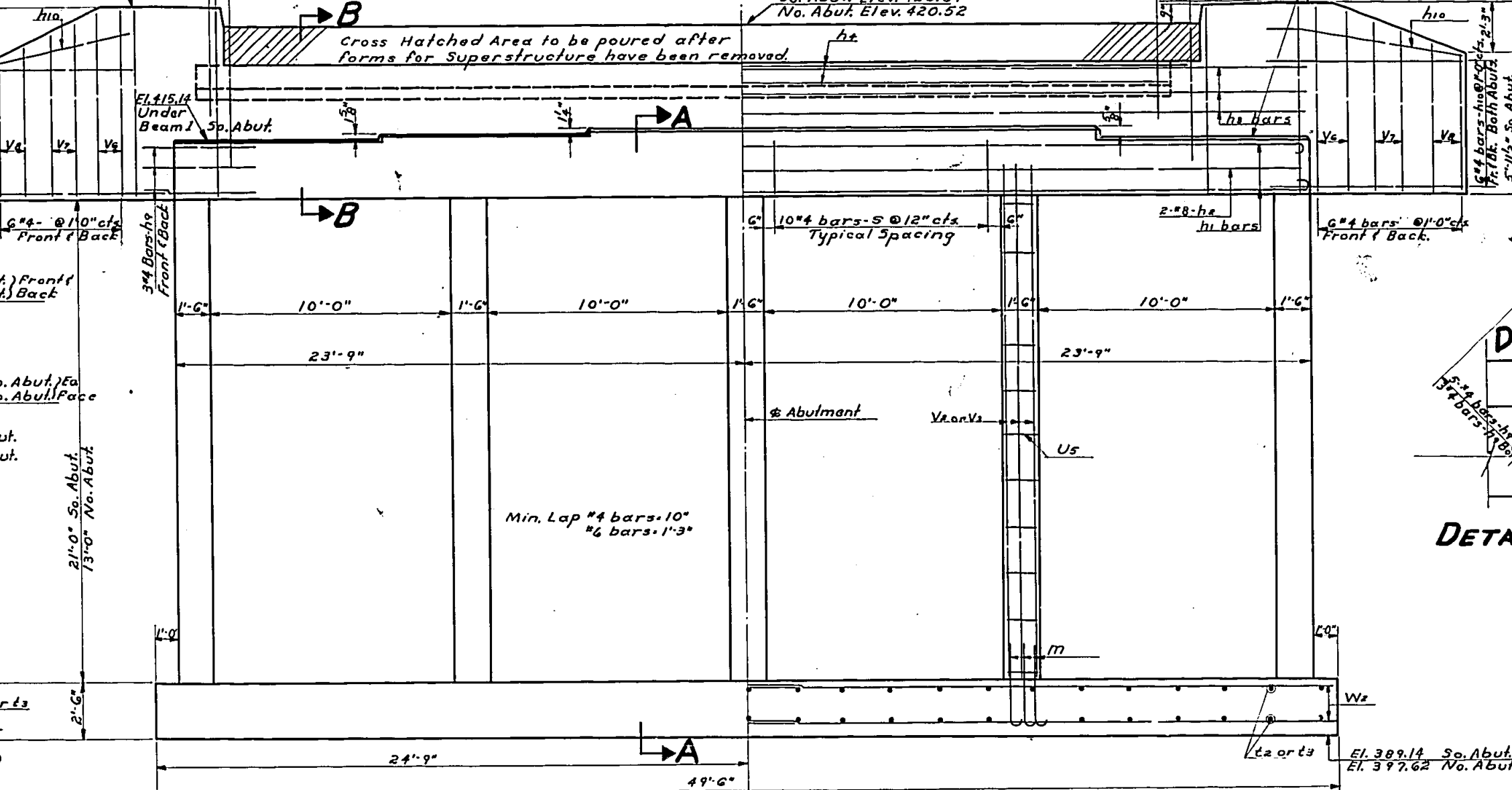
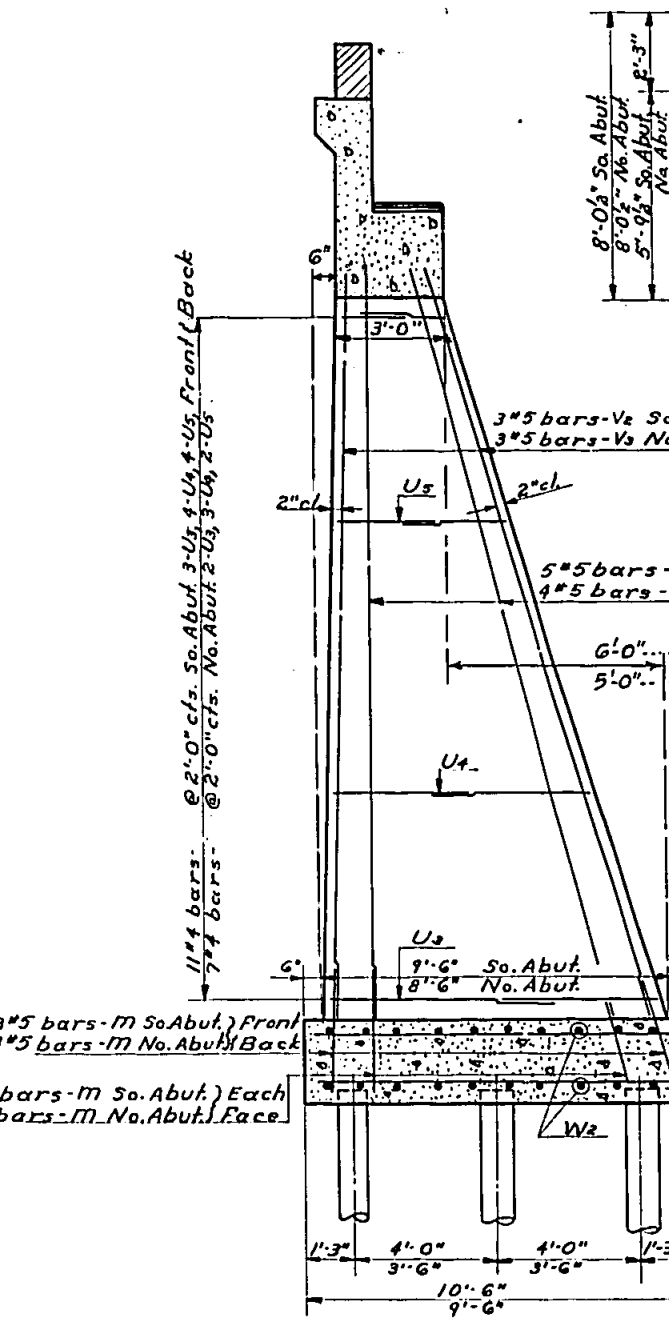
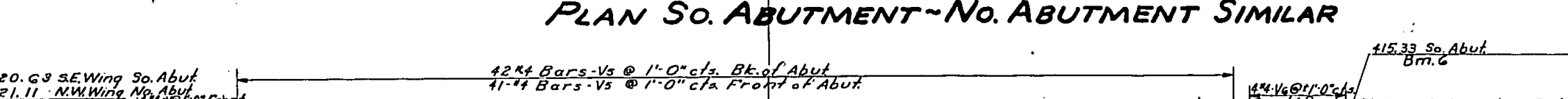
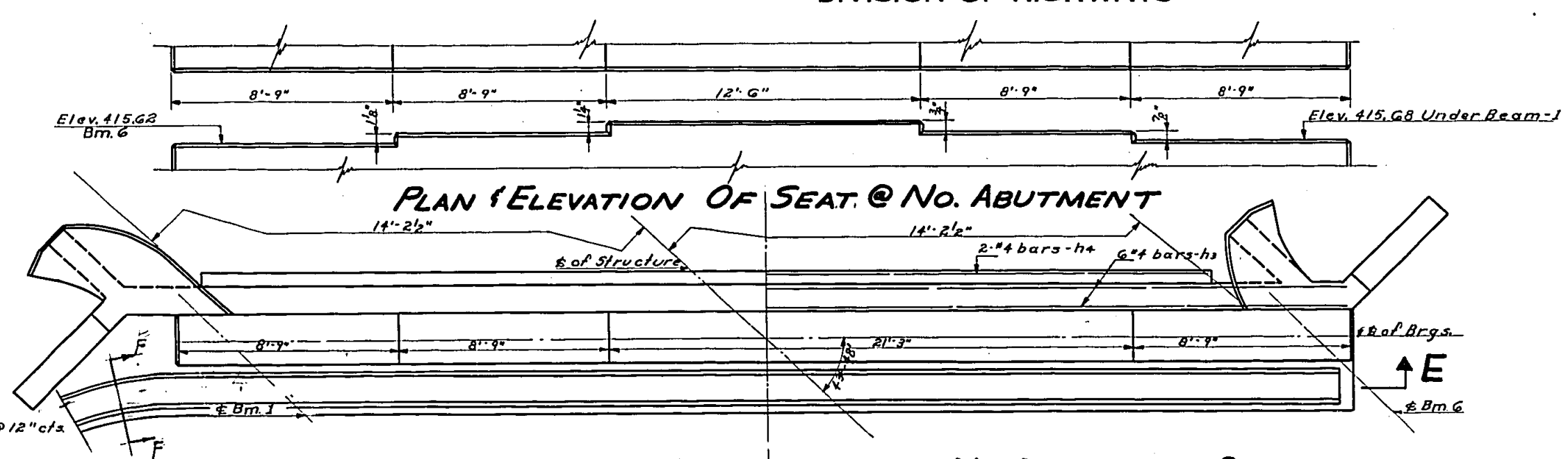
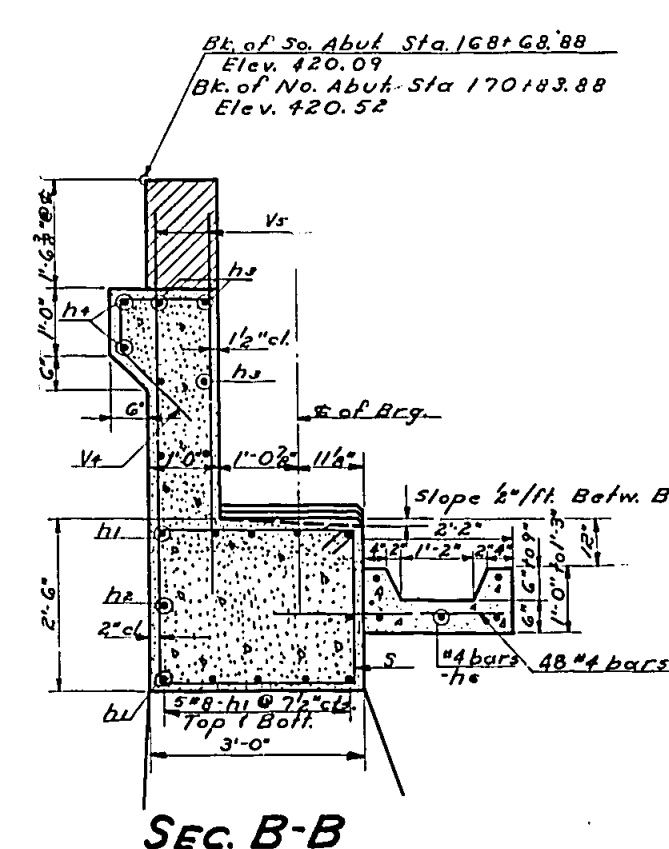
May 19 1954



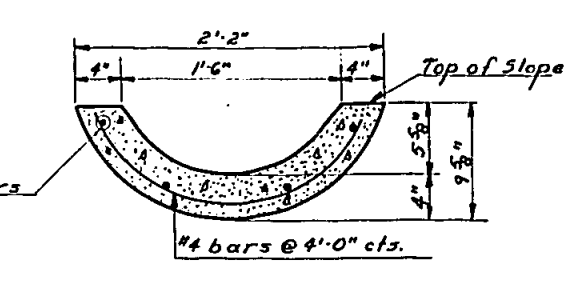
FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

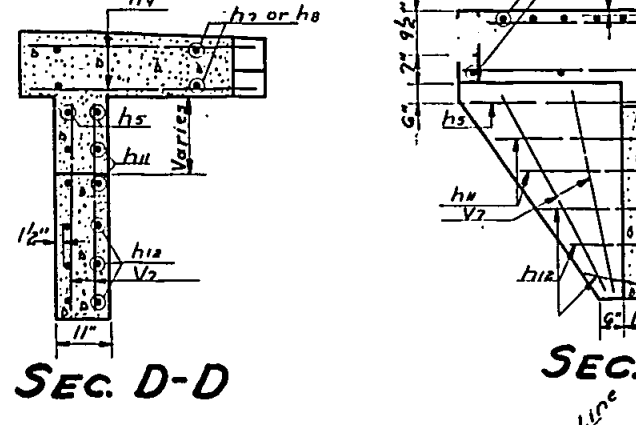
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7
12-11B	12-11F	Jackson	14	14	7 SHEETS
ILLINOIS FED. AID PROJECT					



SEC. E-E

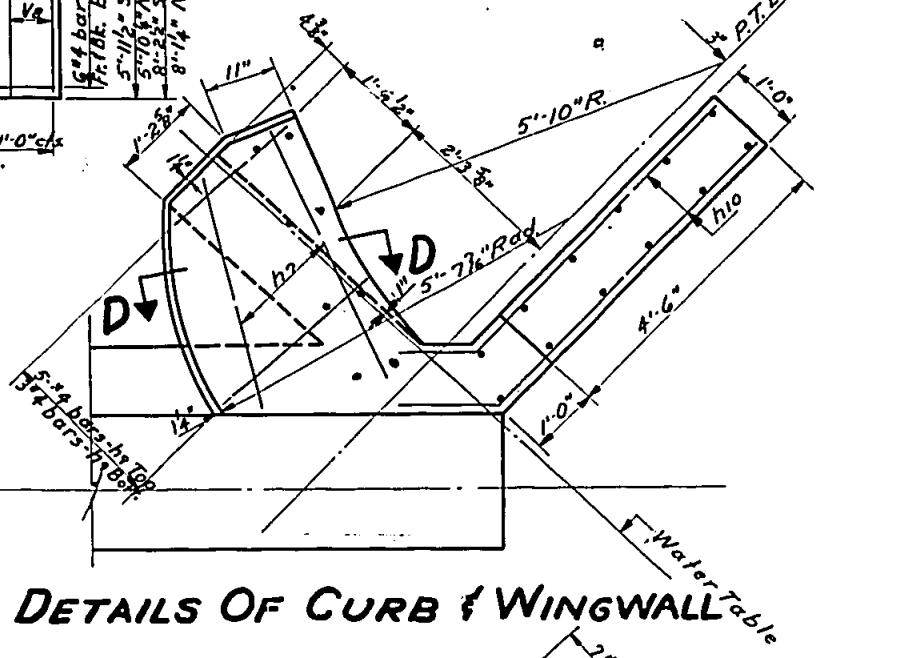


SEC. F-F



SEC. D-D

SEC. C-C



PILE DATA

Treated Piles	20 Ton
Min Capacity	20 Lin. Ft. So. Abut.
Est. Length	25 Lin. Ft. No. Abut.
No. Required	48 So. Abut.
	33 No. Abut.

BILL OF MATERIAL

BAR	NO	SIZE	LENGTH	SHAPE
h1	20	#8	49'-2"	C
h2	4	#8	47'-0"	C
h3	24	#4	25'-3"	C
h4	8	#4	21'-0"	C
h5	96	#4	4'-0"	C
h6	20	#4	1'-0"	C
h7	8	#4	3'-6"	C
h8	8	#4	5'-3"	C
h9	48	#4	2'-3"	C
h10	56	#4	6'-9"	C
h11	16	#4	2'-9"	C
h12	24	#4	1'-9"	C
h13	16	#4	3'-0"	C
h14	150	#5	4'-1"	C
h15	80	#4	10'-9"	C
h16	50	#4	10'-3"	C
h17	50	#4	9'-3"	C
h18	50	#4	11'-2"	C
h19	70	#4	9'-2"	C
h20	60	#4	6'-8"	C
h21	80	#5	22'-6"	C
h22	70	#5	14'-3"	C
h23	32	#4	3'-0"	C
h24	156	#4	0'-0"	C
h25	46	#4	7'-9"	C
h26	32	#4	6'-9"	C
h27	16	#4	5'-6"	C
h28	84	#6	25'-9"	C
h29	2	Ea.		C
h30	1785	Lin. Ft.		C
h31	2029	cu. Yds.		C
h32	14950	Lbs.		C
h33	164	cu. Yds.		C

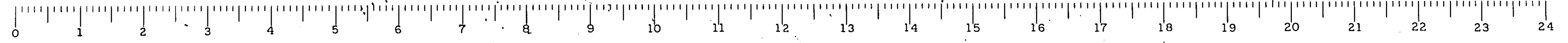
ABUTMENTS  
PROJECT  
F.A. Rt. 14 Sec. 12-11B  
I.C.R.R. OVERHEAD - NW. CARBONDALE  
JACKSON COUNTY  
STA. 169+75.95

DESIGNED *P.H. Tchon*  
CHECKED *M. Vedat Corbino*  
DRAWN *P.H. Tchon, R. Graesch*  
CHECKED *V.C.*

EXAMINED *W.E. Johnson*  
PASSED *[Signature]*  
APPROVED *R.L. [Signature]*

May 19 1934

Dimensions to indicate batter on front & back of pilastr (C) & (D) & (E) added 7-4-34 - HJM.



FOR INFORMATION ONLY