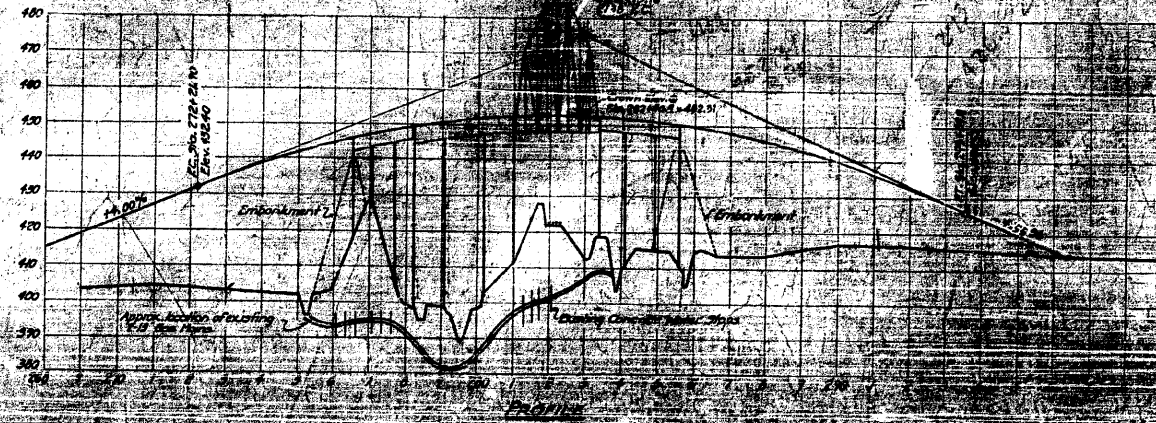
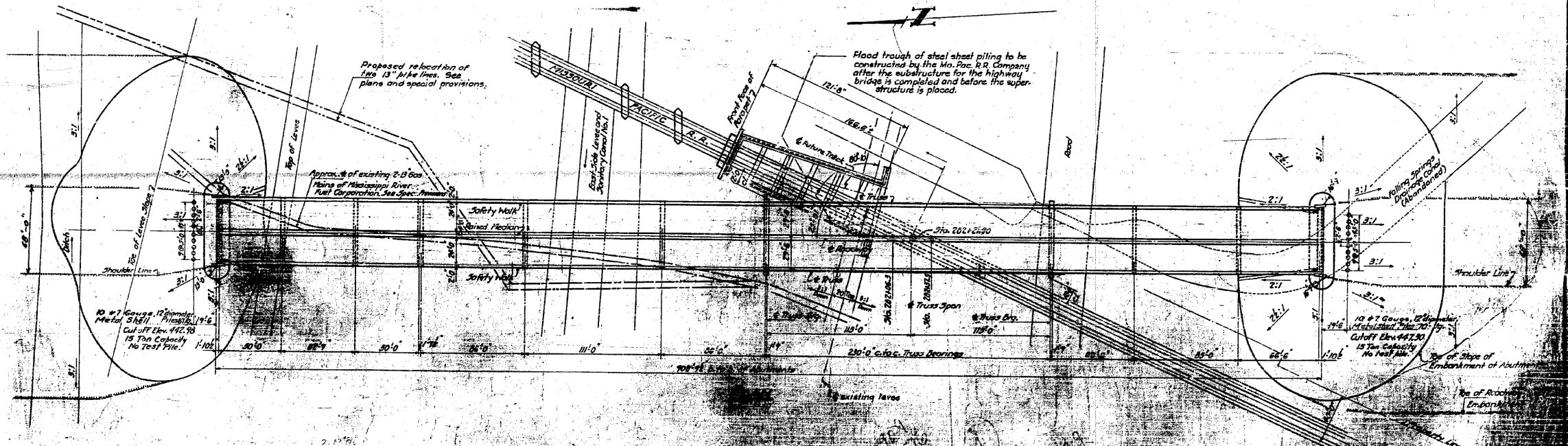
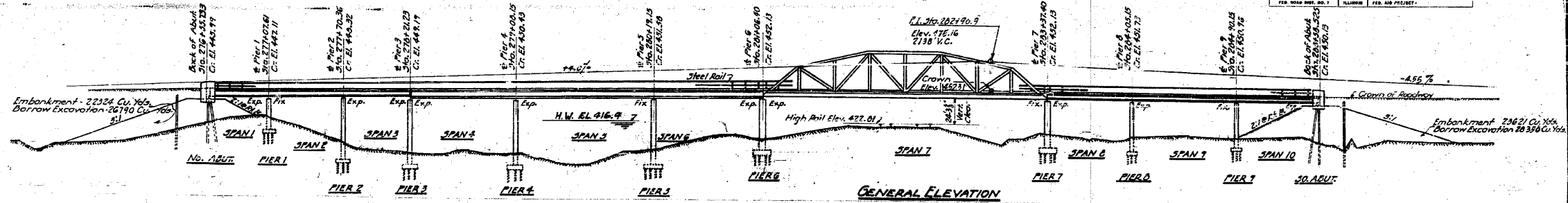


A.M. 1/20 M. Ends, Abut. R.C. Bridge 30' L.
 J.C. 200'13 Elev. 121.17
 D.M. N.S. 1/4. Root 16 Elm 153.11 Sta. 274+10 Elev. 422.67
 B.M. N.S. 1/4. Root 16 Elm 153.11 Sta. 206+70 Elev. 416.20
 No Existing Structure

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

SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
64-1VBR	ST. CLAIR	101	259

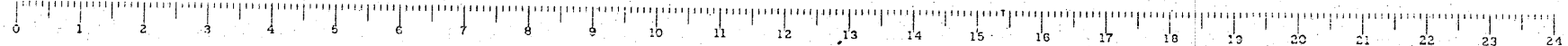
SHEET NO. 1
 30 SHEETS



LOADS OF DESIGN

Uniformly Distributed Load	1000 lbs./sq. ft.
Point Load	15000 lbs.
Wind Pressure	20 lbs./sq. ft.
Ice Load	10 lbs./sq. ft.
Temperature	± 40 F.
Shrinkage and Creep	As per A.C.I. Code
Seismic	As per U.C.B. Code
Impact	As per AASHTO
12\"/>	

COMPUTED	W. J. W. W.	EXAMINED	B-10 1954
CHECKED	W. M. Bannister	DRAWN	W. J. W. W.
DRAWN	W. J. W. W.	PASSED	W. J. W. W.
CHECKED	W. J. W. W.	APPROVED	R. K. Bartelme
SPECIAL	ASSEMBLED	CHECKED	



FOR INFORMATION ONLY

CB Coombe-Bloxdorf P.C.
 - CIVIL ENGINEERS -
 - STRUCTURAL ENGINEERS -
 - LAND SURVEYORS -
 Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	101

CONTRACT NO. 76882
 ILLINOIS FED. AID PROJECT

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
...101-D876882-exist-bridge-plans-01.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - / /	REVISED -

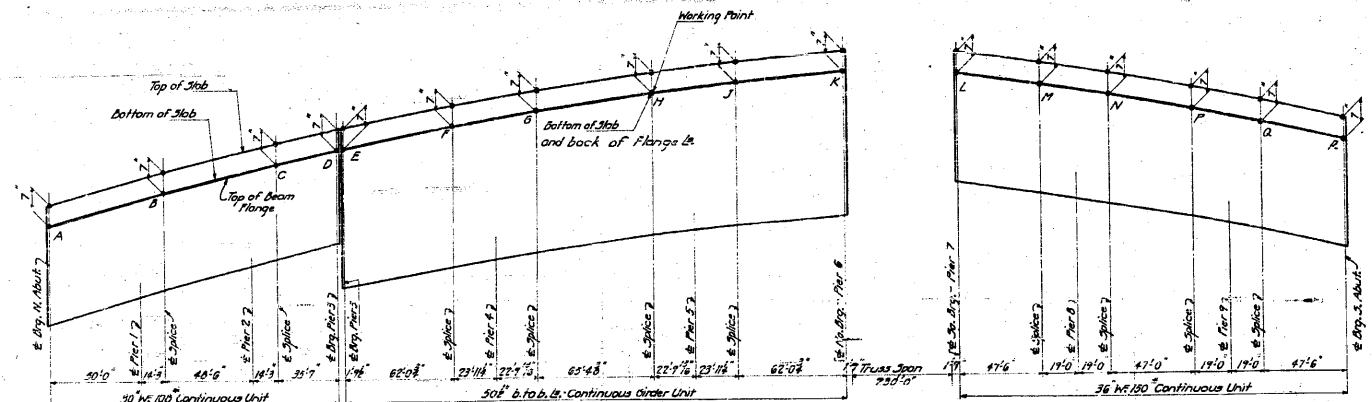
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
 (ORIGINAL PLANS)

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.

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

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64-1VBR	ST. CLAIR	259	102
PROJECT		CONTRACT NO.	
64-1VBR		76882	



SKETCH SHOWING WORKING POINTS OF BEAMS & GIRDERS
Note: Bottom of Slab and tops of Beams and Girders to be flush at Working Points

TOP OF BEAM ELEVATIONS AT WORKING POINTS

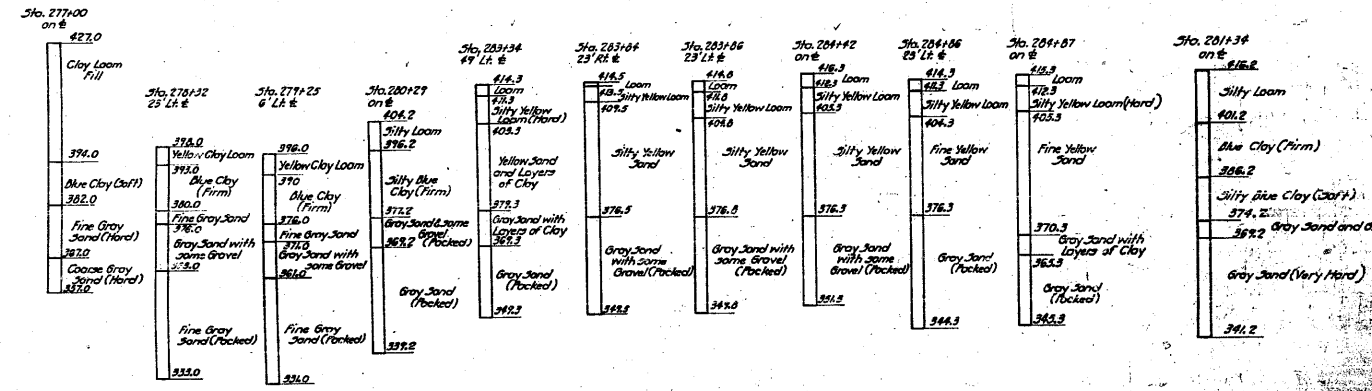
BEAM NO.	WORKING POINTS															
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
1 C.10	445.24	446.61	447.79	448.29	448.92	449.33	449.72	450.27	451.34	451.34	451.07	450.79	450.37	449.52	449.37	
2 C.9	445.30	446.66	447.84	448.34	448.97	449.38	449.77	450.63	451.03	451.37	451.37	451.10	450.68	450.42	450.01	449.42
3 C.8	445.35	446.72	447.90	448.40	449.03	449.44	449.83	450.70	451.08	451.42	451.42	451.15	450.73	450.47	450.07	449.48
4 C.7	445.40	446.77	447.95	448.45	449.08	449.49	449.88	450.75	451.13	451.47	451.47	451.20	450.78	450.52	450.12	449.53
5 C.6	445.45	446.82	448.00	448.50	449.13	449.54	449.93	450.80	451.18	451.52	451.52	451.25	450.83	450.57	450.17	449.58

Note: Elevations given are those before D.I. or L.L. deflection takes place.

MQ. PAC. R.R.
BUILT 195 BY
STATE OF ILLINOIS
F.A. RT. 4 - SEC. 64-1-VB-VD-VE-VF
STA. 281+07.19
LOADING H-20

NAME PLATE DETAIL
See Standard 2113

To be furnished and placed on the concrete and post at a location directed by the Engineer - (Section 64-118)



BORINGS

Borings are given only as a guide to diabases in estimating soil conditions which may be encountered in the work.

Note: See Sheet #28 for additional borings

COMPUTED	W. F. Willy	EXAMINED	B-10 12.54
CHECKED	W. F. Sommer	DRAWN	W. F. Willy
DRAWN	W. F. Willy	CHECKED	W. F. Willy
CHECKED	W. F. Willy	APPROVED	R. B. Bartelme

BAR SIZES SHOWN	4#	5#	6#	7#	8#	10#	12#	14#
BAR NUMBER FOR SIZE ABOVE	4	5	6	7	8	9	10	11

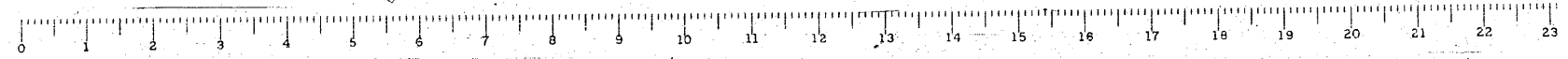
SUMMARY OF QUANTITIES

ITEM	SECTION K.B.	SECTION V.D.	SECTION V.E.	SECTION V.F.
Class-X Concrete	Cu. Yds. 1797.3	1241.5		
Reinforcement Bars	Lbs. 233920	873810		
Structural Steel Carbon	Lbs.		1811280	1811280
Structural Steel A36 (Low Alloy)	Lbs.		509800	509800
12" Metal Shell Piles	Lin. Ft. 13639			
14" Metal Shell Piles	Lin. Ft. 5860			
Structural Steel	Lbs. 920			
12" Metal Shell Test Piles	Each	3		
14" Metal Shell Test Piles	Each	4		
Cast Iron Frames	Each		10	
Name Plate	Each	1		
Corrugated Metal Pipe-6"	Lin. Ft.	500		
Borrow Excavation	Cu. Yds.	55140		
Class A Excavation for Structures	Cu. Yds.	2080		

GENERAL NOTES

SECTION 64-118
Class-X Concrete to be used throughout. Before the superstructure is placed the Contractor for Section 64-118 shall construct the embankments as shown on sheets 64-119 in accordance with Sec. 14 of the Standard Specifications. Mechanical connection shall be used. Reinforcement bars shall conform to ASTM A-305-A. Metal shell test piles shall be driven in a progressive fashion at 100' intervals. The contractor shall be responsible for the design and construction of the piles. The contractor shall be responsible for the design and construction of the piles. The contractor shall be responsible for the design and construction of the piles.

GRADE SEPARATION
MICHIGAN PACIFIC R.R.
NORTH OF DUPO
F.A. ROUTE 4 - SEC. 64-1-VB-VF
ST. CLAIR COUNTY



FOR INFORMATION ONLY

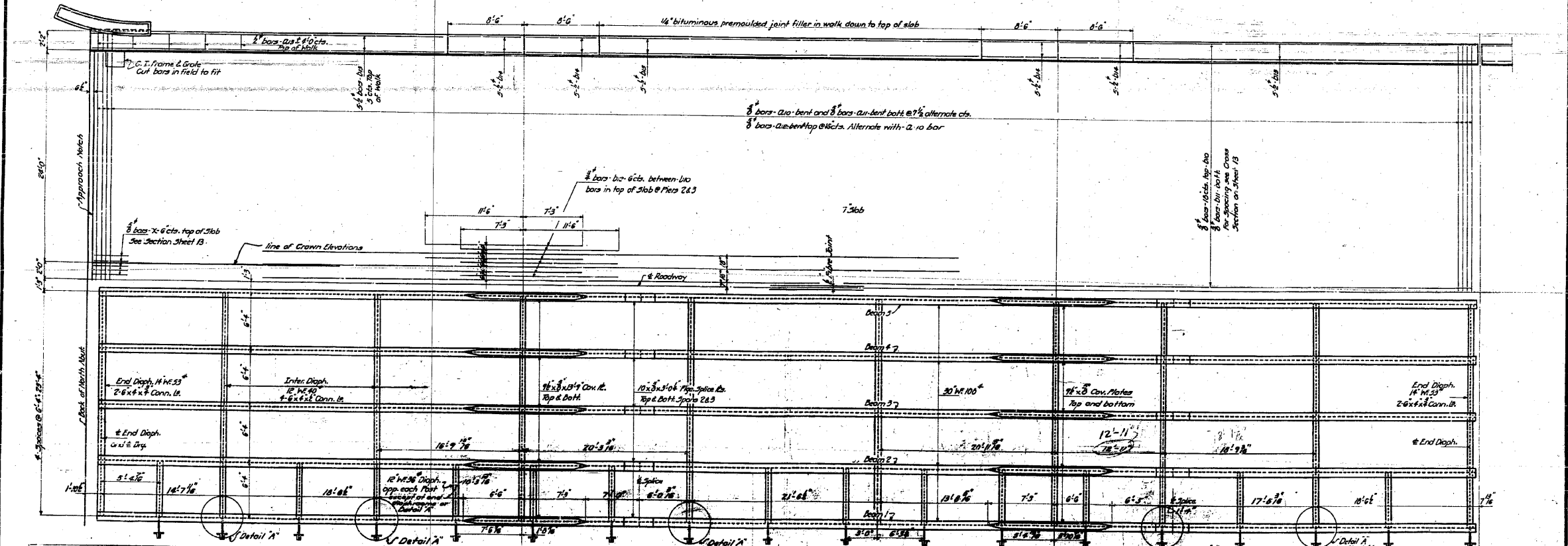
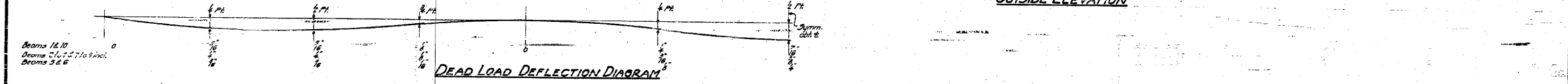
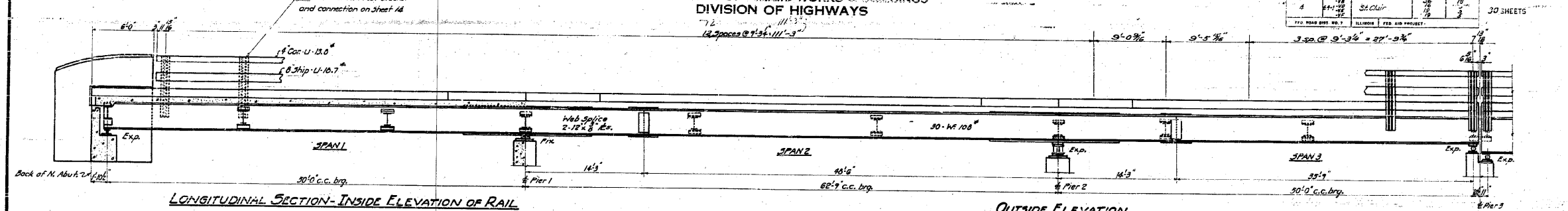
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...1182-0876882-exist-bridge-plans-02.dgn		DRAWN -	REVISIONS -			312	64-1VBR	ST. CLAIR	259	102
PLOT SCALE = 40.000000' / IN.		CHECKED -	REVISIONS -			CONTRACT NO. 76882		ILLINOIS FED. AID PROJECT		
PLOT DATE = 6/5/2010		DATE - / /	REVISIONS -			SCALE:		SHEET NO. OF SHEETS STA. TO STA.		

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

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

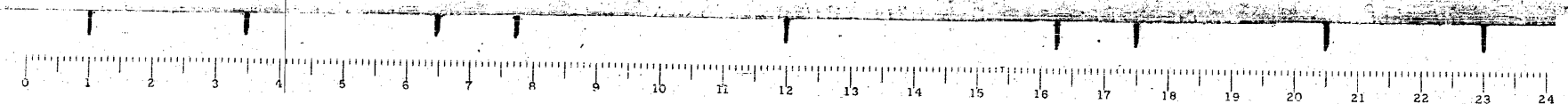
DATE	REVISION	COUNTY	TOTAL SHEETS	SHEET NO.
4	1	St. Clair	30	3

30 SHEETS



STANDARD	COMPUTED	EXAMINED
CHECKED	W. J. W.	B-10 1954
DRAWN	W. J. W.	W. B. Hanson
CHECKED	J. H. S.	MEMBER OF BRIDGE AND TRAFFIC STRUCTURES
ASSEMBLED		PASSED
CHECKED		APPROVED

SPANS 1-2-3
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH BRIDGE
E.A. ROUTE 4 - SEC. 64-1B-84
ST. CLAIR COUNTY



FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS (ORIGINAL PLANS)			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

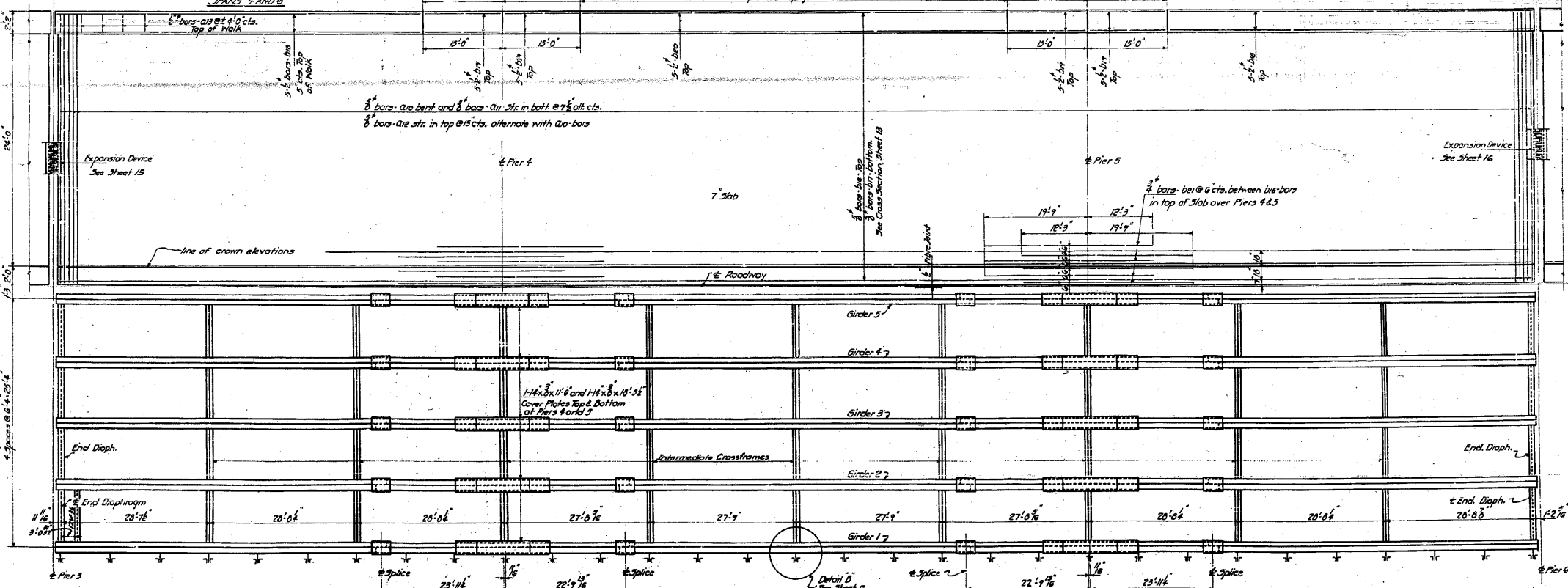
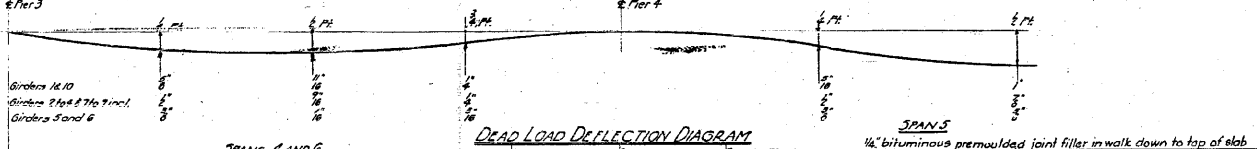
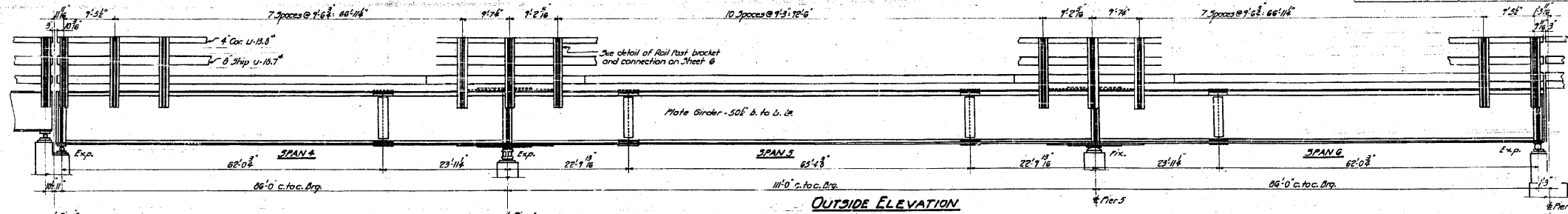
CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	103

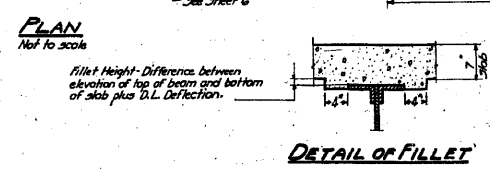
CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT

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

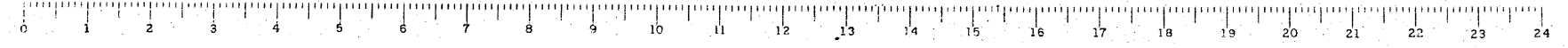
ROAD DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	64-1VBR	ST. CLAIR	259	104
FEB. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



COMPUTED	W. F. Wilkey	EXAMINED	B-10 10-5-1
CHECKED	W. M. Summer	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	W. E. Hanson
DRAWN	W. F. W.	PASSED	[Signature]
CHECKED	W. M.	APPROVED	R. L. Paulsen
SPECIAL	ASSEMBLED		
	CHECKED		



SPANS 4-5 & 6
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
F.A. ROUTE 4 - SEC. 63-1-VB000
ST. CLAIR COUNTY



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
...104-0876882-exist-bridge-plans-04.dgn		DRAWN -	REVISED -
	PLOT SCALE = 48.000000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 8/5/2010	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(ORIGINAL PLANS)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

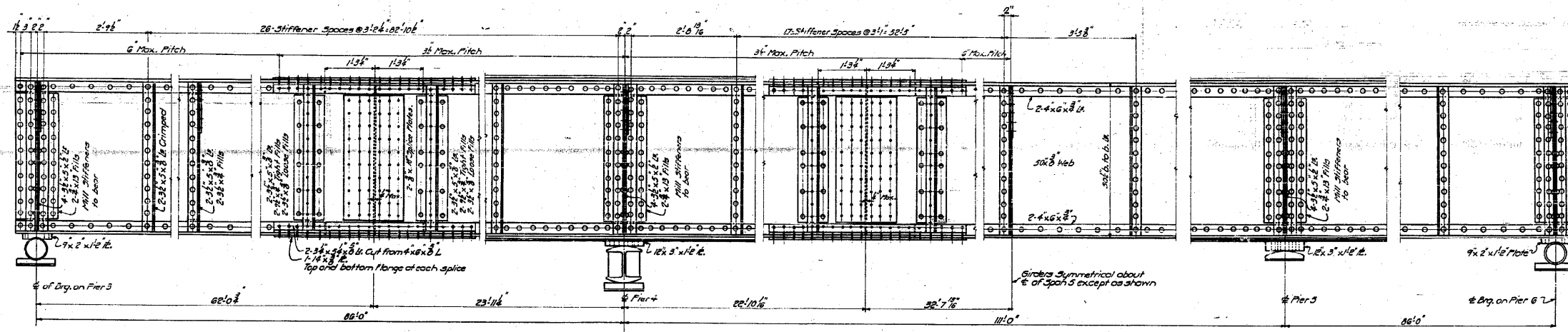
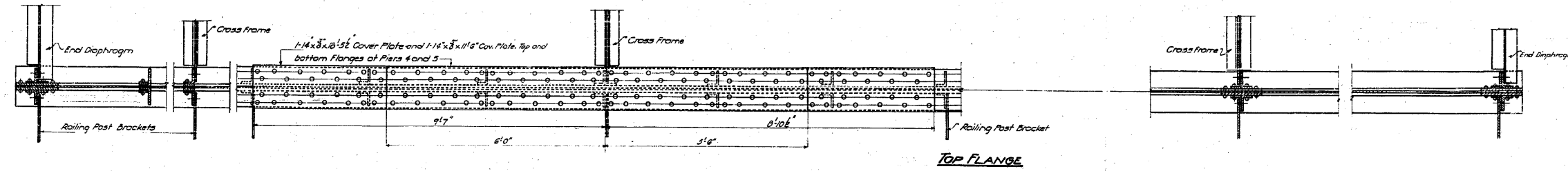
CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	104
			CONTRACT NO. 76882	

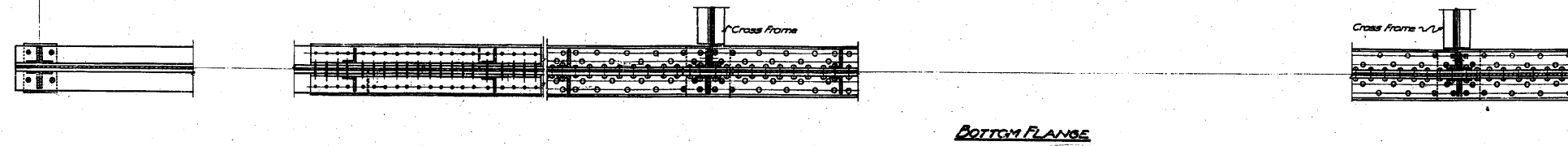
ILLINOIS FED. AID PROJECT

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

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET TOTALS
64-1VBR	ST. CLAIR	10	5	10
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT



OUTSIDE ELEVATION OF GIRDER I
Other Girders Similar
Longitudinal dimensions shown are horizontal distances



COMPUTED	W. J. WILBY	EXAMINED	B-10 10-54
CHECKED	W. J. WILBY	DESIGNED	W. E. ROMAN
DRAWN	W. J. WILBY	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	
CHECKED	W. J. WILBY	PASSED	
ASSEMBLED		APPROVED	R. C. BASTIEN
CHECKED			

PLATE GIRDER SPANS 4-5&6
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
F.A. ROUTE 4 - SEC. 64-1V.E.F.
ST. CLAIR COUNTY

FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
...105-0876882-exist-bridge-plans-05.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.000000' / IN.	CHECKED -	REVISED -
CB JOB NO 09021	PLOT DATE = 8/5/2010	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS	
(ORIGINAL PLANS)	
SCALE:	SHEET NO. OF SHEETS STA. TO STA.

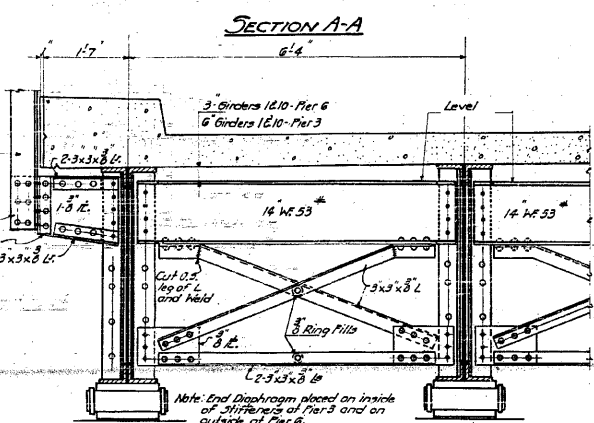
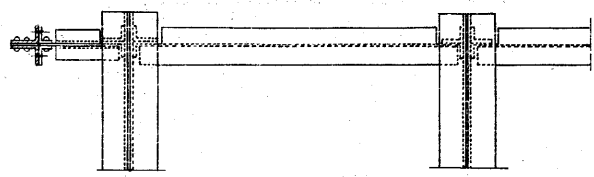
CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	105

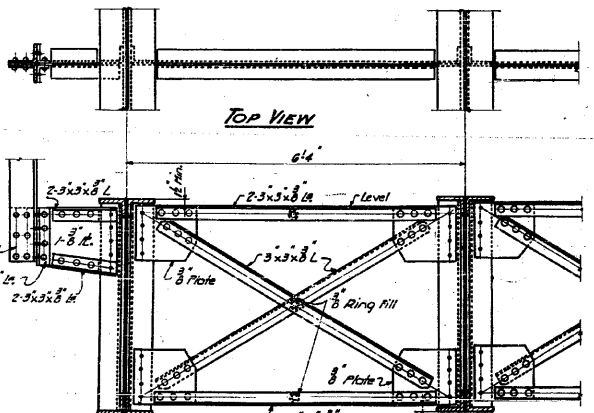
CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT

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

BOND HAVE	DATE	TOTAL SHEETS	SHEET NO.
4	6-1-18	36	20
ST. CLAIR		13	8
FED. ROAD DIST. NO. 7 ILLINOIS ED. AID PROJECT			

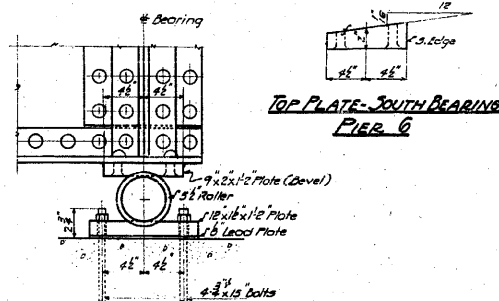


DETAILS OF END DIAPHRAGM AND RAILING POST CONNECTION AT PIERS 3&6

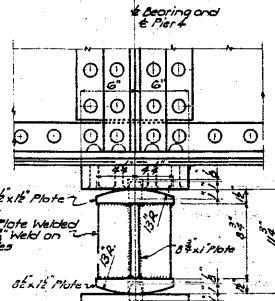


DETAILS OF CROSS FRAME AND RAILING POST CONNECTION AT INTERMEDIATE CROSS FRAMES
All other railing post connections in spans 4-5&6 are similar to those shown above.

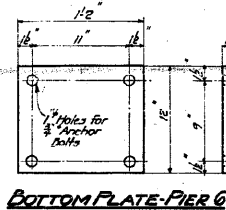
STANDARD	COMPUTED	W. F. Wilby	EXAMINED	B-10	1954	
	CHECKED	R. H. Miller		PASSED	W. E. Hanson	
	DRAWN	W. F. Wilby			ENGINEER OF BRIDGES AND STRUCTURES	
	CHECKED	W. F. Wilby			APPROVED	
SPECIAL	ASSEMBLED		APPROVED	R. H. Miller		
	CHECKED			SUPERVISOR OF BRIDGES		



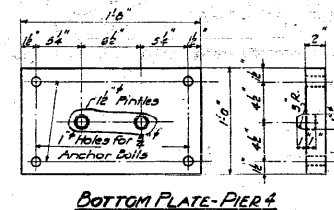
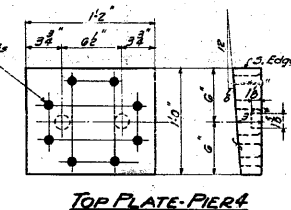
DETAIL OF NORTH BEARING PIER 6



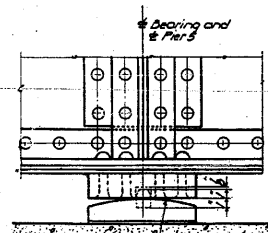
DETAIL OF BEARING PIER 4



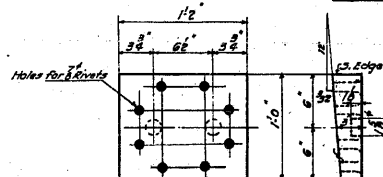
ROLLERS PIER 6



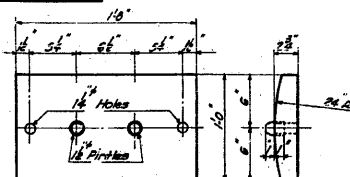
BOTTOM PLATE PIER 4



DETAIL OF BEARING PIER 5



TOP PLATE PIER 5



BOTTOM PLATE PIER 5

For Bearing Details at Pier 3 See Sheet 16
For Section at Pier 6 See Sheet 16
For details of Handrail Posts and Railing See Sheet 14

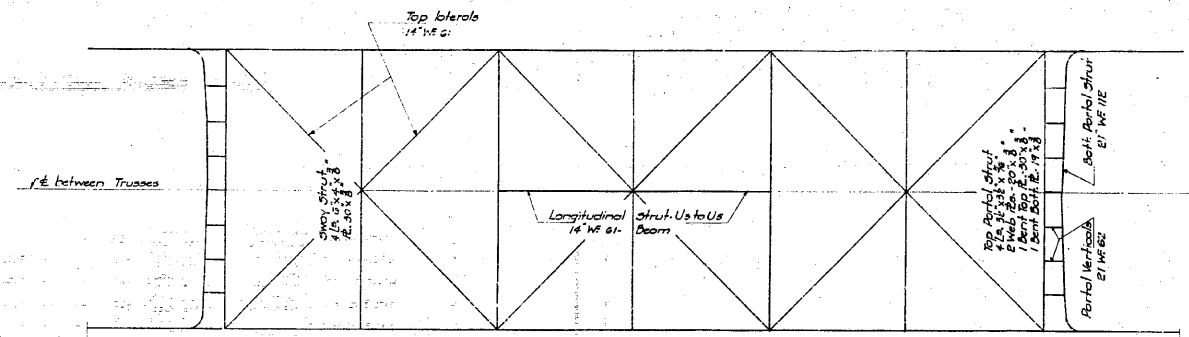
DETAILS- SPANS 4-5&6
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
FA ROUTE 4 - SEC 64-1-VBEE
ST. CLAIR COUNTY



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 082-0030 PLANS (ORIGINAL PLANS)	SCALE: SHEET NO. OF SHEETS STA. TO STA.	Coombe-Bloxdorf P.C. - CIVIL ENGINEERS- - STRUCTURAL ENGINEERS- - LAND SURVEYORS- Design Firm License No. 184-002703				
...1105-DB76882-exist-bridge-plans-06.dgn	PLOT SCALE = 40.000000' / IN.	DRAWN -	REVISED -					F.A.P. RYE.	SECTION	COUNTY	TOTAL SHEET NO.
CB JOB NO 09021	PLOT DATE = 8/5/2010	CHECKED -	REVISED -					312	64-1VBR	ST. CLAIR	259 106
		DATE - / /	REVISED -								CONTRACT NO. 76882

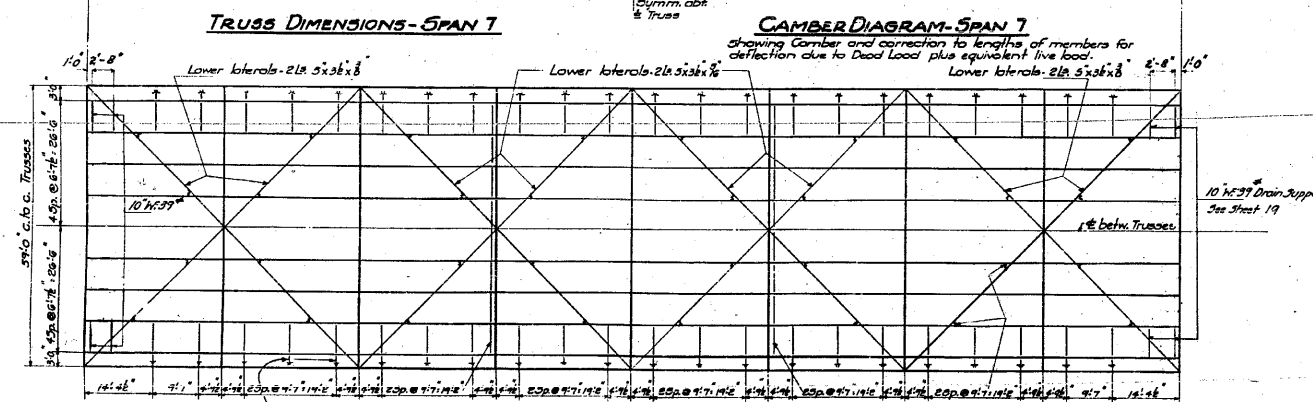
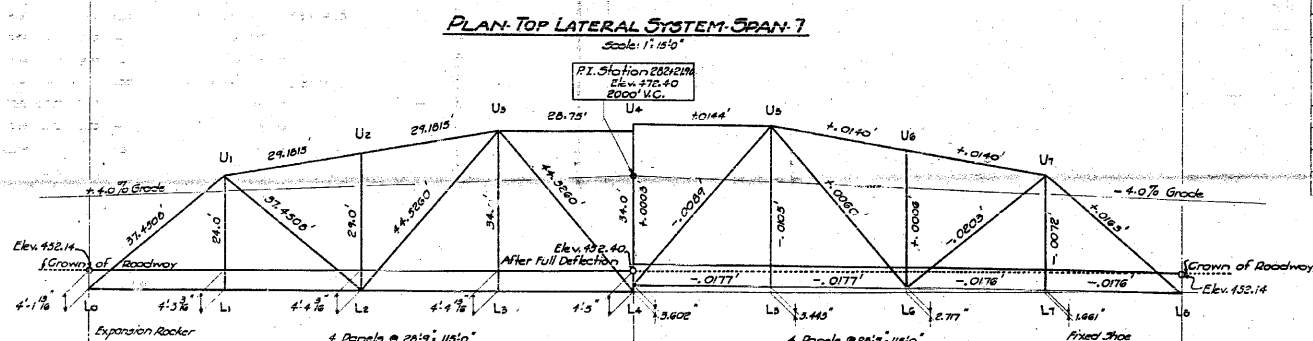
ILLINOIS FED. AID PROJECT



STRESSES AND SECTIONS IN MAIN TRUSSES - SPAN 7

Member	Stresses			Length ft.	Radius of Gyration ft.	Allowable Unit Stresses		Actual Unit Stresses		Section	Material	
	D.L.	L.L.	Impact			Tension	Compression	Tension	Compression			
L ₂ -L ₃	1512	1186	126	1724	57,5000	-	2400	-3570	35.73	20.26	-	14 WF 136
L ₃ -L ₄	1775	1391	140	1407	57,5000	-	2400	-58.73	51.98	21.10	-	14 WF 136
L ₄ -L ₅	1775	1182	140	1407	57,5000	-	2400	-58.73	51.98	21.10	-	14 WF 136
L ₅ -L ₆	1512	1186	126	1724	57,5000	-	2400	-35.73	35.73	20.26	-	14 WF 136
L ₀ -U ₁	-667	-264	-37	-968	37,4908	8.61	32.20	-	13.73	61.19	-	15-82
U ₁ -U ₂	-357	-268	-50	-1045	36,3620	8.61	40.67	-	14.24	61.19	-	1705
U ₂ -U ₃	-627	-300	-42	-1169	37,3000	8.64	40.86	-	14.23	62.41	-	1766
U ₃ -U ₄	-731	-268	-50	-1349	36,3620	8.61	40.67	-	14.24	61.19	-	1705
U ₄ -U ₅	-667	-264	-37	-968	37,4908	8.61	32.20	-	13.73	61.19	-	15-82
U ₅ -L ₆	1278	1134	123	1525	37,4908	-	2500	-	33.54	20.07	-	14 WF 70
L ₅ -L ₆	-76	-64	-16	-176	44,5260	4.90	10.800	-	12.03	15.14	-	9.20
U ₃ -L ₄	180	140	14	334	44,5260	-	18.00	-	17.94	12.36	-	14 WF 61
L ₄ -L ₅	190	140	14	344	44,5260	-	18.00	-	17.94	12.36	-	14 WF 61
U ₂ -L ₃	180	140	14	334	44,5260	4.90	10.800	-	12.03	15.14	-	9.20
L ₄ -L ₅	180	140	14	334	44,5260	-	18.00	-	17.94	12.36	-	14 WF 70
U ₄ -L ₅	190	140	14	344	44,5260	-	18.00	-	17.94	12.36	-	14 WF 53
U ₅ -L ₆	180	140	14	334	44,5260	3.00	116.00	-	11.64	22.94	-	14 WF 78
U ₆ -L ₇	103	106	124	333	54,0000	-	18.00	-	15.51	12.36	-	14 WF 53
L ₆ -L ₇	-15	0	0	-15	54,0000	3.00	26.00	-	13.39	22.94	-	14 WF 78

* Partial effect caused by 30' Wind to be combined with D.L. only



COMPUTED	<i>J. J. Mackay</i>	EXAMINED	8-10-54
CHECKED	<i>W. B. Johnson</i>	PASSED	
DRAWN	<i>J. J. Mackay</i>	APPROVED	
CHECKED	<i>R. L. [unclear]</i>		
SPECIAL			

STRESSES AND SECTIONS IN FLOOR SYSTEM

Member	Shear			Moment			Section	Material
	D.L.	L.L.	Impact	D.L.	L.L.	Impact		
Curb Stringer	11.88	11.84	3.00	86.70	85.88	12.42	21 WF 60	⊙
Interior stringer	8.71	8.69	6.75	74.37	72.81	10.46	21 WF 60	⊙
Exterior stringer	10.72	10.66	5.91	54.71	53.64	8.38	21 WF 60	⊙
Floorbeam @ L ₀ or L ₁	13.10	13.10	17.18	104.39	103.71	23.62	4 Lx 6 x 1/2 x 1/2	⊙
Jacking Floorbeam @ L ₀ or L ₁	19.57	-	-	104.41	-	13.84	web 12 x 40 x 8	⊙
Fl. Bm @ L ₁ -L ₂ or L ₂ -L ₃	14.58	14.48	17.46	124.57	123.37	27.94	4 Lx 6 x 1/2 x 1/2	⊙
Floorbeam @ L ₅ or L ₆	12.47	12.46	17.16	104.39	103.71	23.62	4 Lx 6 x 1/2 x 1/2	⊙

BILL OF MATERIAL - SPAN 7

Bar	No.	Size	Length
a	504	3/8"	32'-0"
a1	502	3/8"	29'-9"
a2	502	3/8"	30'-0"
a3	118	1/2"	14'-0"
b	768	5/8"	30'-0"
b1	328	1/2"	30'-3"
b2	80	1/2"	30'-3"
b3	420	5/8"	18'-0"
c1e	52	3"	3'-0"
c1u	230	1/2"	4'-0"
c2	192	3"	3'-0"

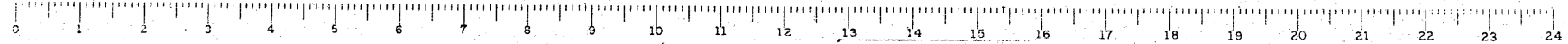
Class X Concrete - Cx 3000 311.4

Reinforcement Bars - Lbs. 76,000

Structural Steel - Carbon - Lbs. 323,670

Structural Steel - A-36 - Lbs. 509,800

**SPAN 7
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
FA ROUTE 4 - SEC. 64-18-D.E.F.
ST. CLAIR COUNTY**



FOR INFORMATION ONLY

Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
312	64-1VBR	ST. CLAIR	259 / 107
CONTRACT NO. 76882			
ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(ORIGINAL PLANS)

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DRAWN -
CHECKED -
DATE - / /

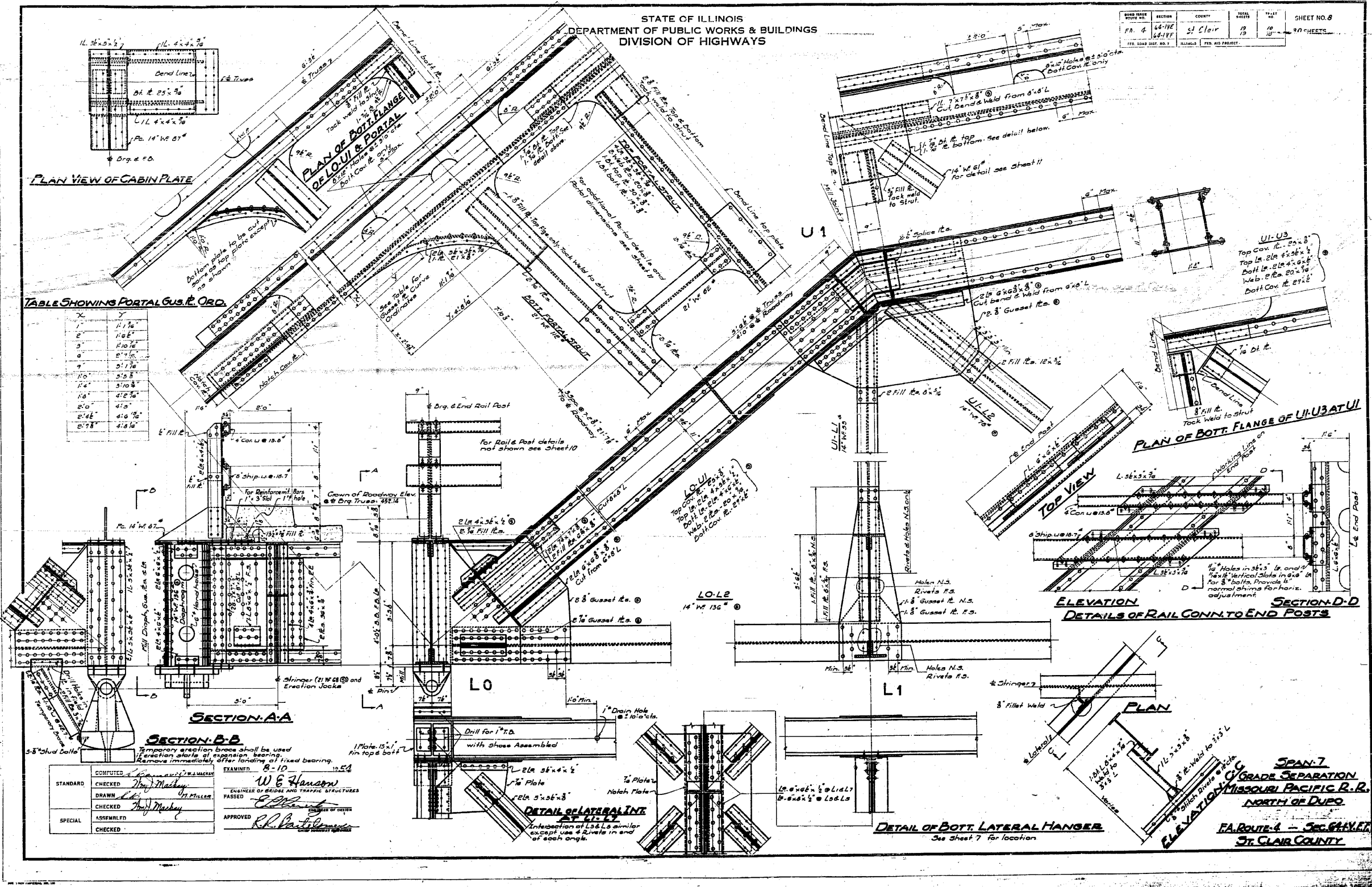
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DRAWN -
CHECKED -
DATE - / /

REVISIED -
REVISIED -
REVISIED -
REVISIED -

SCALE: SHEET NO. OF SHEETS STA. TO STA.

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

ROAD NAME	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FR. 4	64-IVB	St. Clair	10	8
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



PLAN VIEW OF CABIN PLATE

TABLE SHOWING PORTAL GUS. & ORD.

X	Y
1	11.76
2	11.65
3	11.54
4	11.43
5	11.32
6	11.21
7	11.10
8	10.99
9	10.88
10	10.77
11	10.66
12	10.55
13	10.44
14	10.33
15	10.22
16	10.11
17	10.00
18	9.89
19	9.78
20	9.67
21	9.56
22	9.45
23	9.34
24	9.23
25	9.12
26	9.01
27	8.90
28	8.79
29	8.68
30	8.57
31	8.46
32	8.35
33	8.24
34	8.13
35	8.02
36	7.91
37	7.80
38	7.69
39	7.58
40	7.47
41	7.36
42	7.25
43	7.14
44	7.03
45	6.92
46	6.81
47	6.70
48	6.59
49	6.48
50	6.37
51	6.26
52	6.15
53	6.04
54	5.93
55	5.82
56	5.71
57	5.60
58	5.49
59	5.38
60	5.27
61	5.16
62	5.05
63	4.94
64	4.83
65	4.72
66	4.61
67	4.50
68	4.39
69	4.28
70	4.17
71	4.06
72	3.95
73	3.84
74	3.73
75	3.62
76	3.51
77	3.40
78	3.29
79	3.18
80	3.07
81	2.96
82	2.85
83	2.74
84	2.63
85	2.52
86	2.41
87	2.30
88	2.19
89	2.08
90	1.97
91	1.86
92	1.75
93	1.64
94	1.53
95	1.42
96	1.31
97	1.20
98	1.09
99	0.98
100	0.87

SECTION A-A

SECTION B-B

L0

L1

L0-L2

ELEVATION DETAILS OF RAIL CONN. TO END POSTS

PLAN OF BOT. FLANGE OF U1-U3 AT U1

TOP VIEW

PLAN

SPAN 7

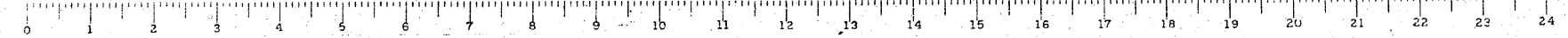
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
FA. ROUTE 4 - SEC. 64, T. 17 N., R. 10 E., S. 17 S.
ST. CLAIR COUNTY

STANDARD	CHECKED	W. J. Mackay
DRAWN	W. J. Mackay	W. J. Mackay
CHECKED	W. J. Mackay	W. J. Mackay
SPECIAL	APPROVED	W. J. Mackay

COMPUTED BY W. J. Mackay
EXAMINED BY W. J. Mackay
DESIGNED BY W. E. Hanson
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED BY W. J. Mackay
APPROVED BY R. B. ...

DETAIL OF LATERAL LINK

DETAIL OF BOT. LATERAL HANGER



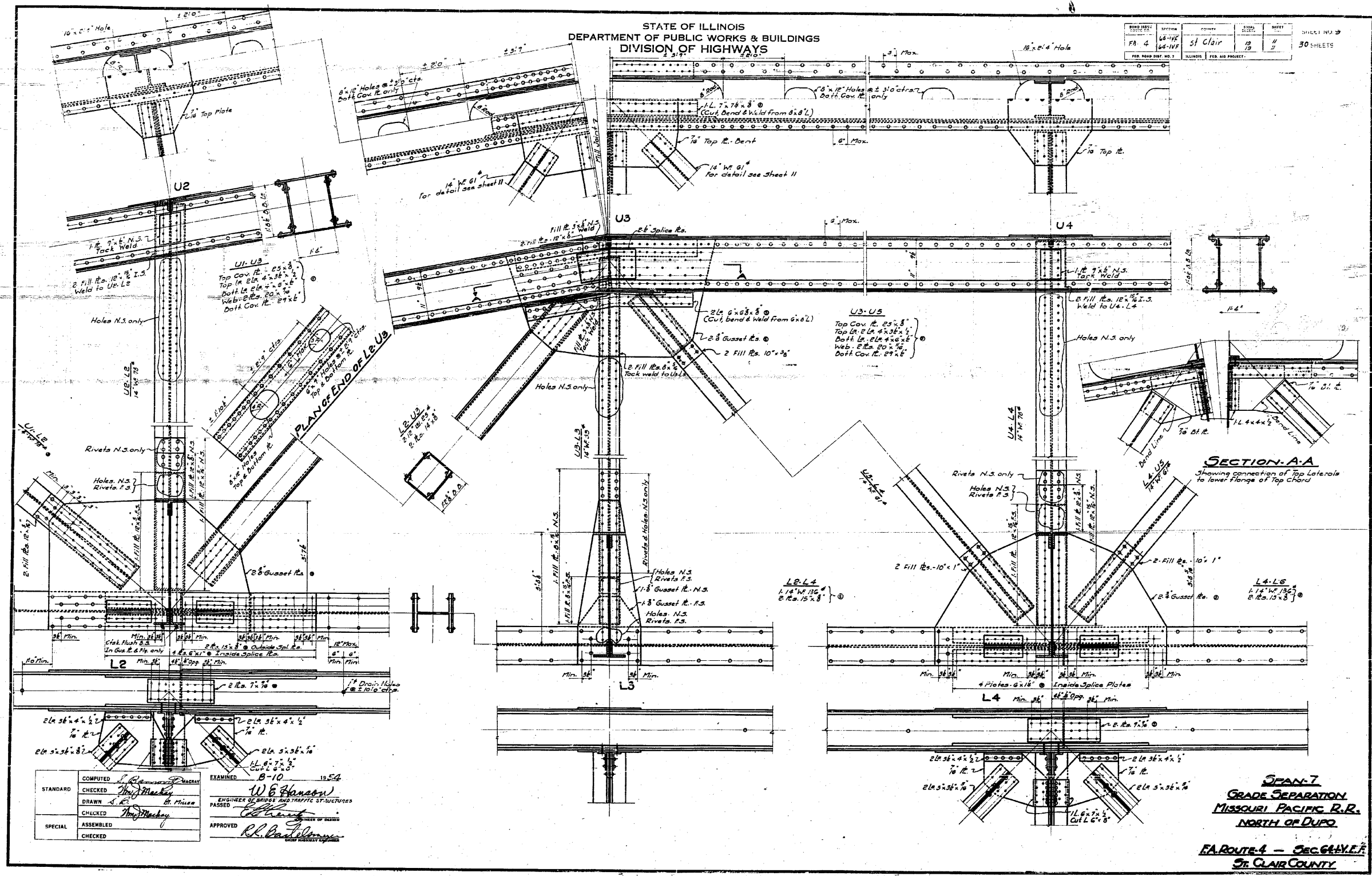
FOR INFORMATION ONLY

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...1188-0876882-exist-bridge-plans-08.dgn	PLOT SCALE = 40.000000' / IN.	DRAWN -	REVISED -					F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO.	
CB JOB NO 09021	PLOT DATE = 8/5/2010	CHECKED -	REVISED -					312 64-IVBR ST. CLAIR 259 108	
		DATE - / /	REVISED -					CONTRACT NO. 76882	

ILLINOIS FED. AID PROJECT

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

SECTION	PROJECT	COUNTY	TOTAL SHEETS	SHEET NO.
FA 4	64-IVB	St. Clair	259	109
ILLINOIS FED. AID PROJECT				



STANDARD	COMPUTED	EXAMINED
CHECKED	W. E. Hanson	B-10
DRAWN	W. E. Hanson	1954
CHECKED	W. E. Hanson	1954
SPECIAL	ASSEMBLED	APPROVED
CHECKED		

SECTION A-A
Showing connection of Top Laterals to lower Flange of Top Chord

SPAN 7
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
FA ROUTE 4 - SEC. 64-IVB
ST. CLAIR COUNTY

FOR INFORMATION ONLY

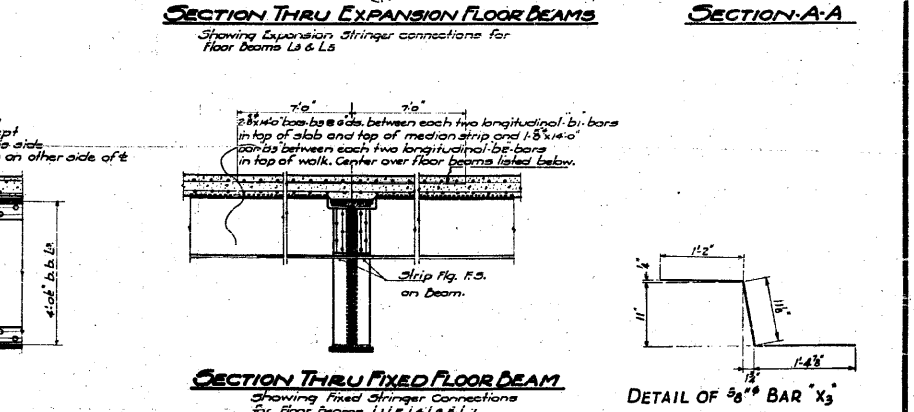
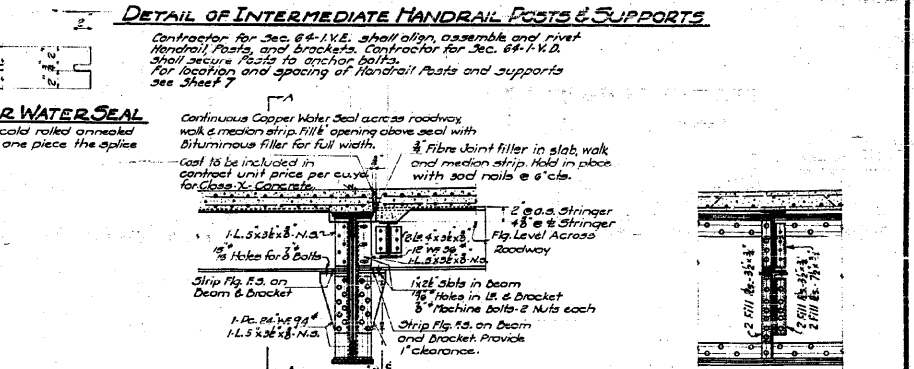
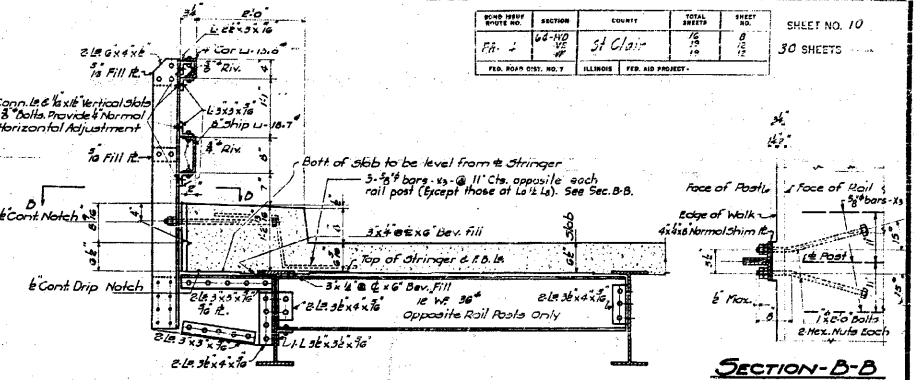
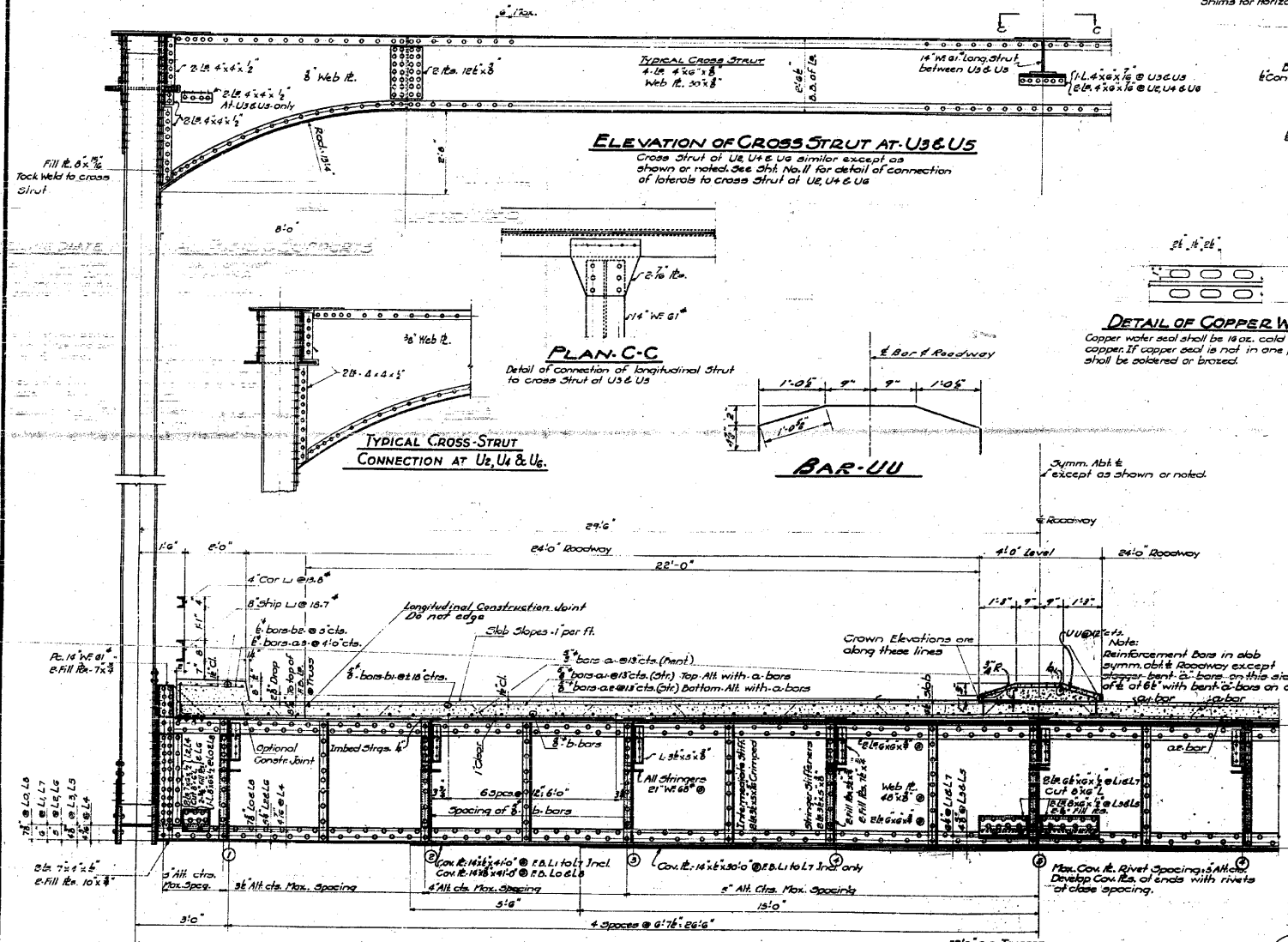
CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVB	ST. CLAIR	259	109
CONTRACT NO. 76882				
ILLINOIS FED. AID PROJECT				

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		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS	SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
(ORIGINAL PLANS)					



D.L. DEFLECTION DIAGRAM FOR STRINGERS

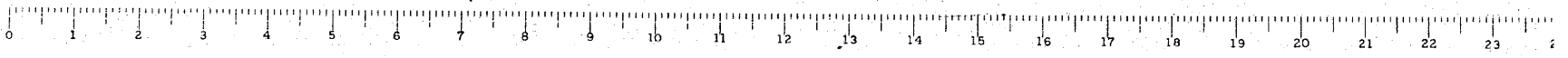
STANDARD	COMPUTED	W. B. MACKAY
CHECKED	W. B. MACKAY	
DRAWN	W. B. MACKAY	
CHECKED	W. B. MACKAY	
ASSEMBLED		
CHECKED		

ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
APPROVED: *W. B. Mackay*

TABLE SHOWING D.L. DEFLECTION AND DISTANCE OF TOP OF STRINGERS ABOVE TOP OF B ANGLES

Stringer No.	1	2	3	4	5
F.D. L6 L7	8'0" .6"	7'5" .1"	7'1" .7"	6'7" .2"	6'2" .9"
F.D. L4 L6 L7	8'0" .6"	7'5" .16"	7'1" .17"	6'7" .28"	6'2" .36"
F.D. L3 L5 L8	8'0" .6"	7'5" .16"	7'1" .17"	6'7" .28"	6'2" .36"

Note: First figure indicates amount of D.L. deflection in floor beam. Second figure indicates rise of slab with reference to stringer. Third figure, which is sum of 1st & 2nd figures, indicates amount that top of stringer is to be placed above top of floor beam angles.



FOR INFORMATION ONLY

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- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	110

CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(ORIGINAL PLANS)

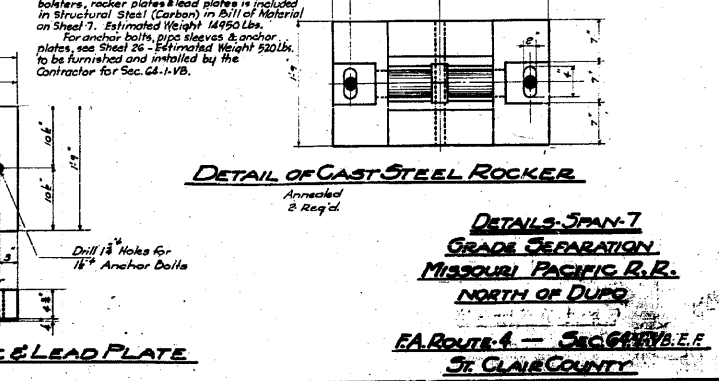
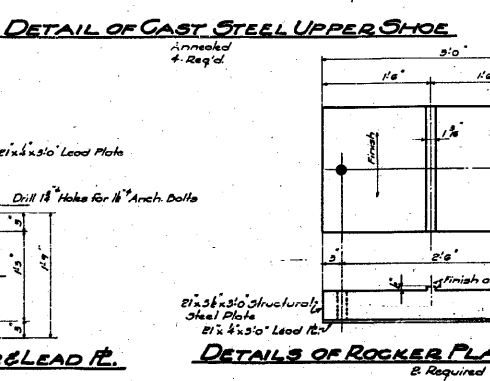
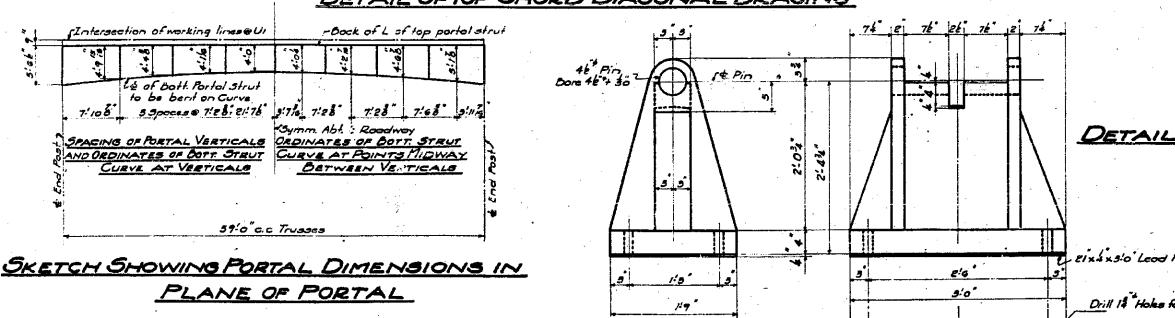
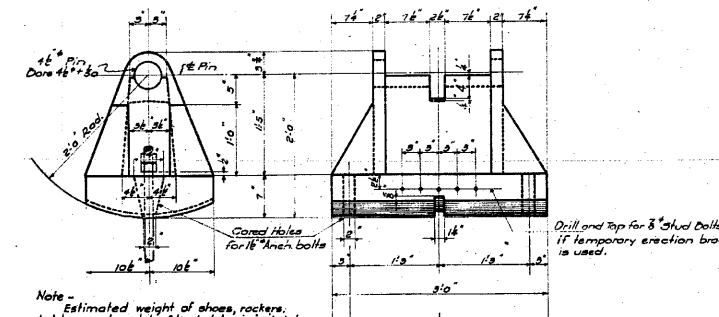
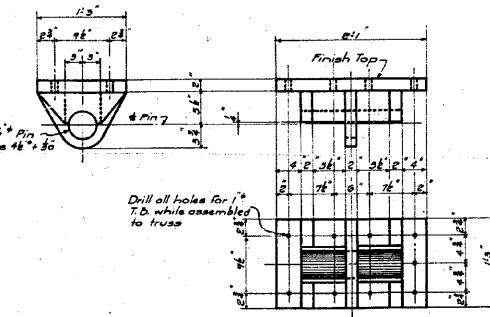
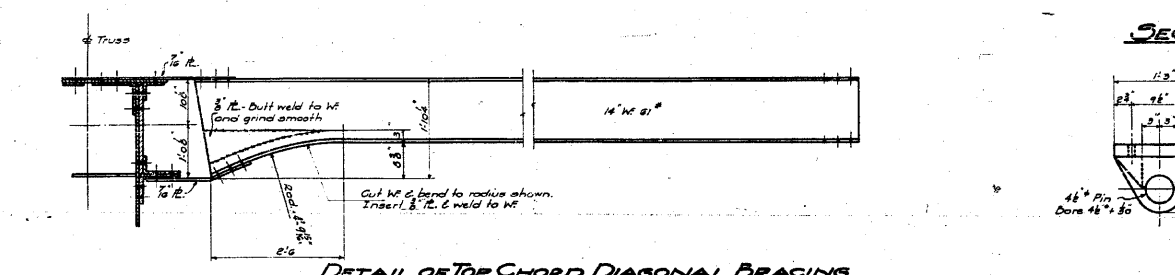
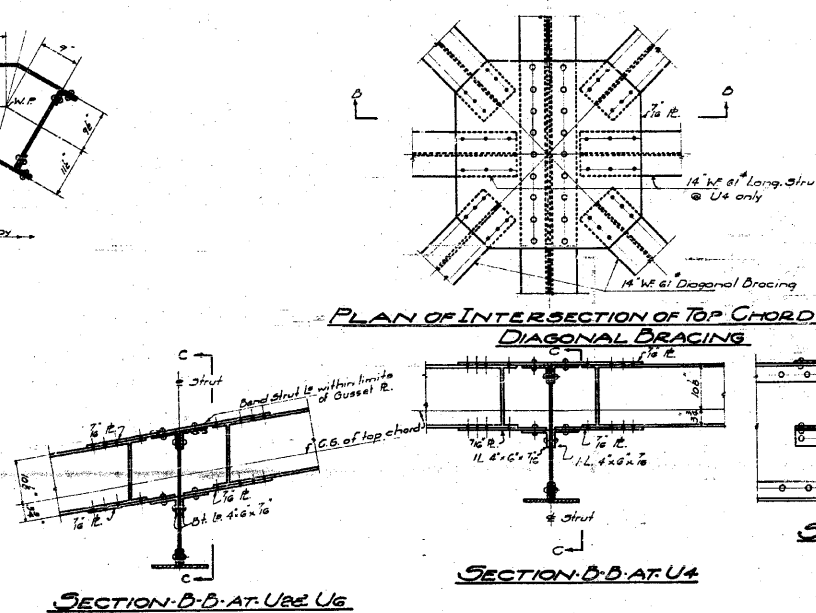
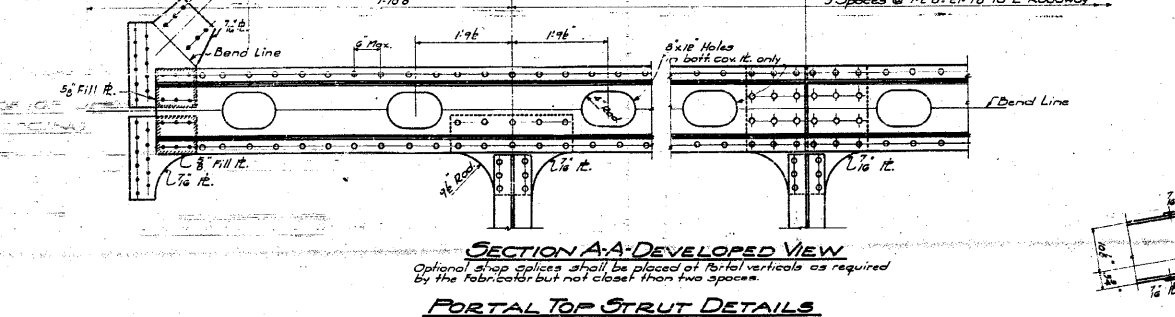
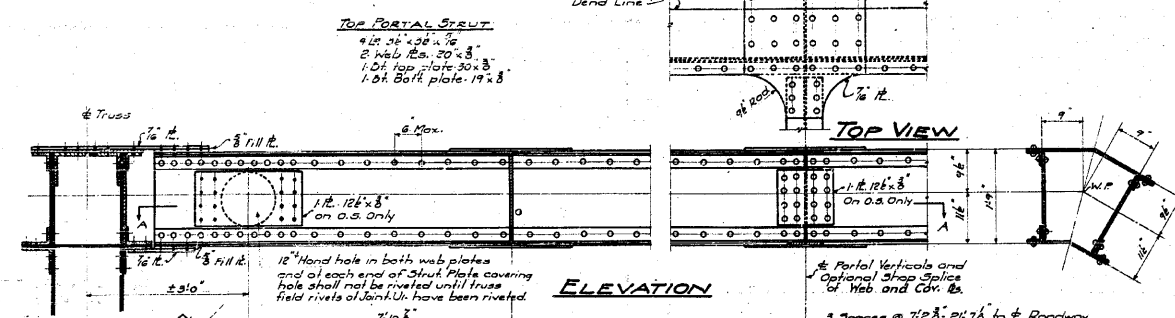
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PLOT DATE = 8/5/2010	CHECKED -	REVISED -
	DATE - / /	REVISED -

SCALE: SHEET NO. OF SHEETS STA. TO STA.

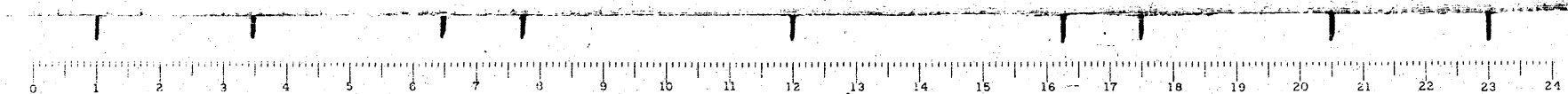
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROAD DISTRICT	SECTION	COUNTY	DATE	SHEET NO.
EA 4	64-IVB	St. Clair	3/6/54	25
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT		13	30 SHEETS



STANDARD	COMPUTED	EXAMINED	8-10	1954
CHECKED	W. E. Hanson	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES		
DRAWN	W. E. Hanson	PASSED		
CHECKED	W. E. Hanson	APPROVED		
SPECIAL	ASSEMBLED			
CHECKED				

DETAILS - SPAN 7
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
EA ROUTE 4 - SACGREVILLE
ST. CLAIR COUNTY



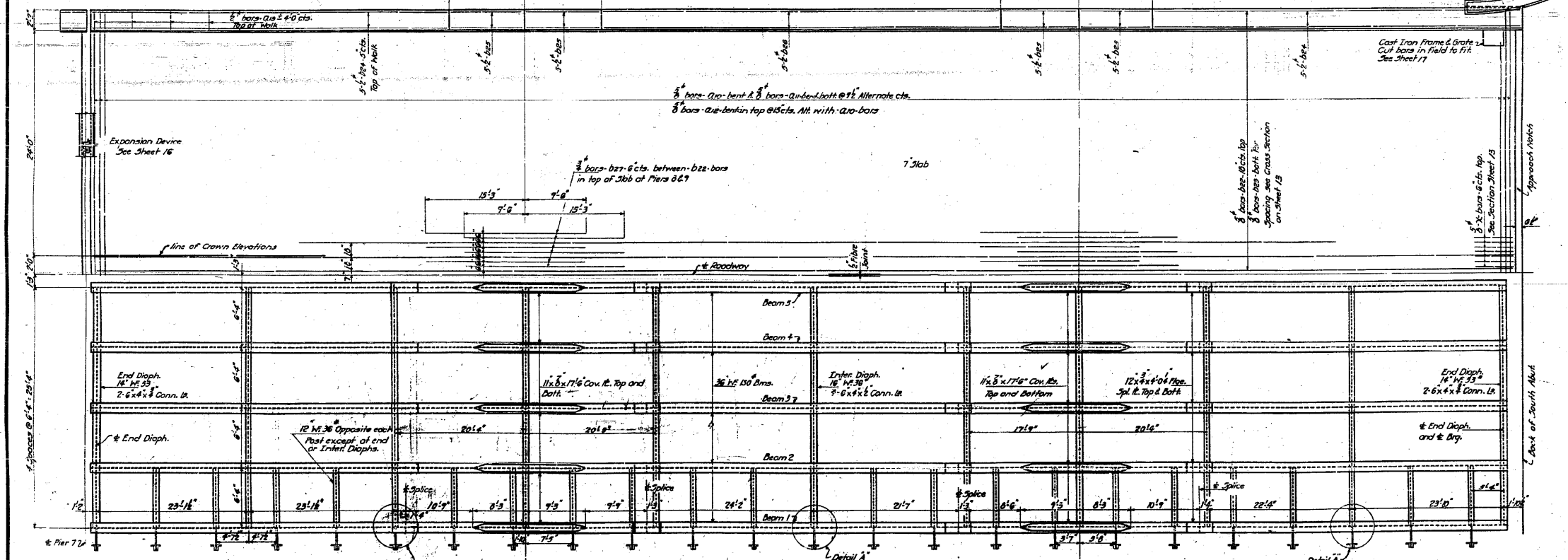
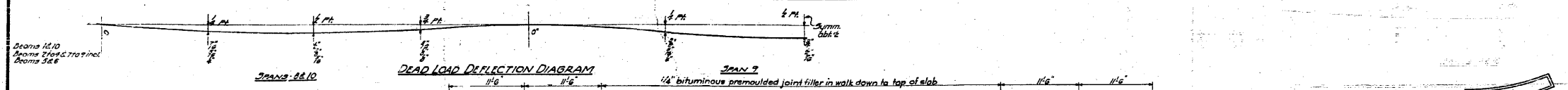
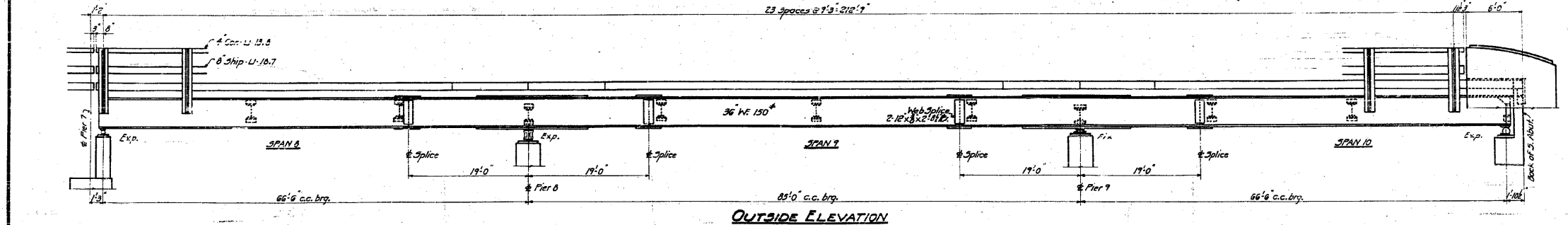
FOR INFORMATION ONLY

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PLOT SCALE = 40.000000' / IN.	PLOT DATE = 8/5/2010	DRAWN -	REVISED -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 76882				
		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT				
		DATE - / /	REVISED -							

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

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

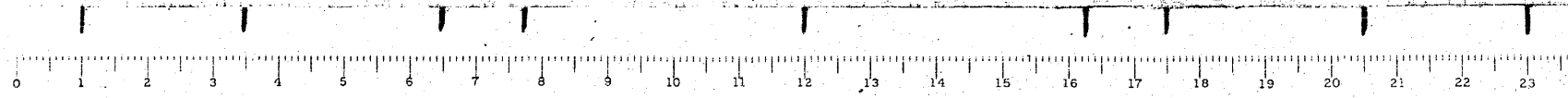
ROAD DISTRICT NO. 7	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	64-1VBR	ST. CLAIR	259	112
ILLINOIS FED. AID PROJECT				



STANDARD	COMPUTED <i>W.F. Wilby</i>	EXAMINED <i>B-10 1956</i>
	CHECKED <i>W.F. Wilby</i>	DESIGNED <i>W.F. Hanover</i>
	DRAWN <i>W.F. Wilby</i>	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
	CHECKED <i>W.F. Wilby</i>	PASSED <i>[Signature]</i>
SPECIAL	ASSEMBLED	APPROVED <i>R.R. Bartleson</i>
	CHECKED	

PLAN
Note
For details of bars B-10, B-11 and X-see Sheet 11
For Bill of Material see Sheet 11
For detail 'A' see Sheet 14

SPANS 0-10
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPE
I.A. ROUTE 4 - SEC. 64-1VBR
ST. CLAIR COUNTY



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

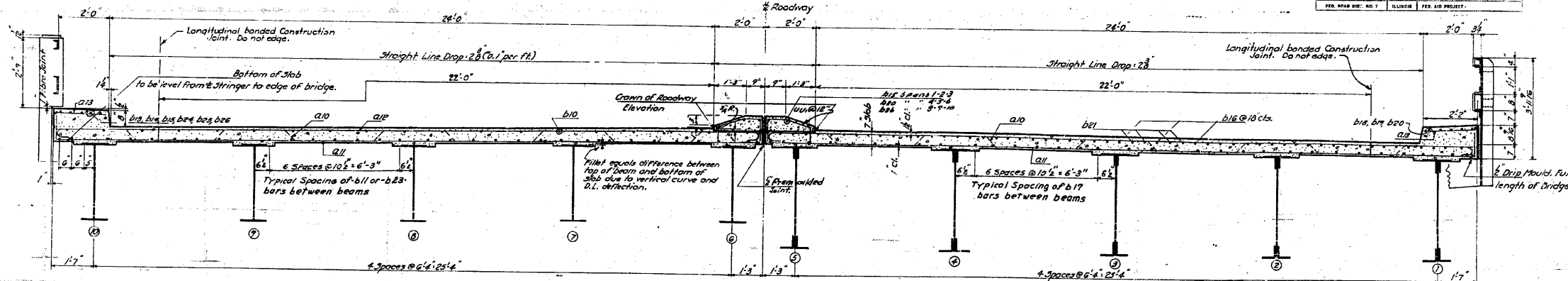
SN 082-0030 PLANS (ORIGINAL PLANS)				
SCALE:	SHEET NO.	OF	SHEETS	STA. TO STA.

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

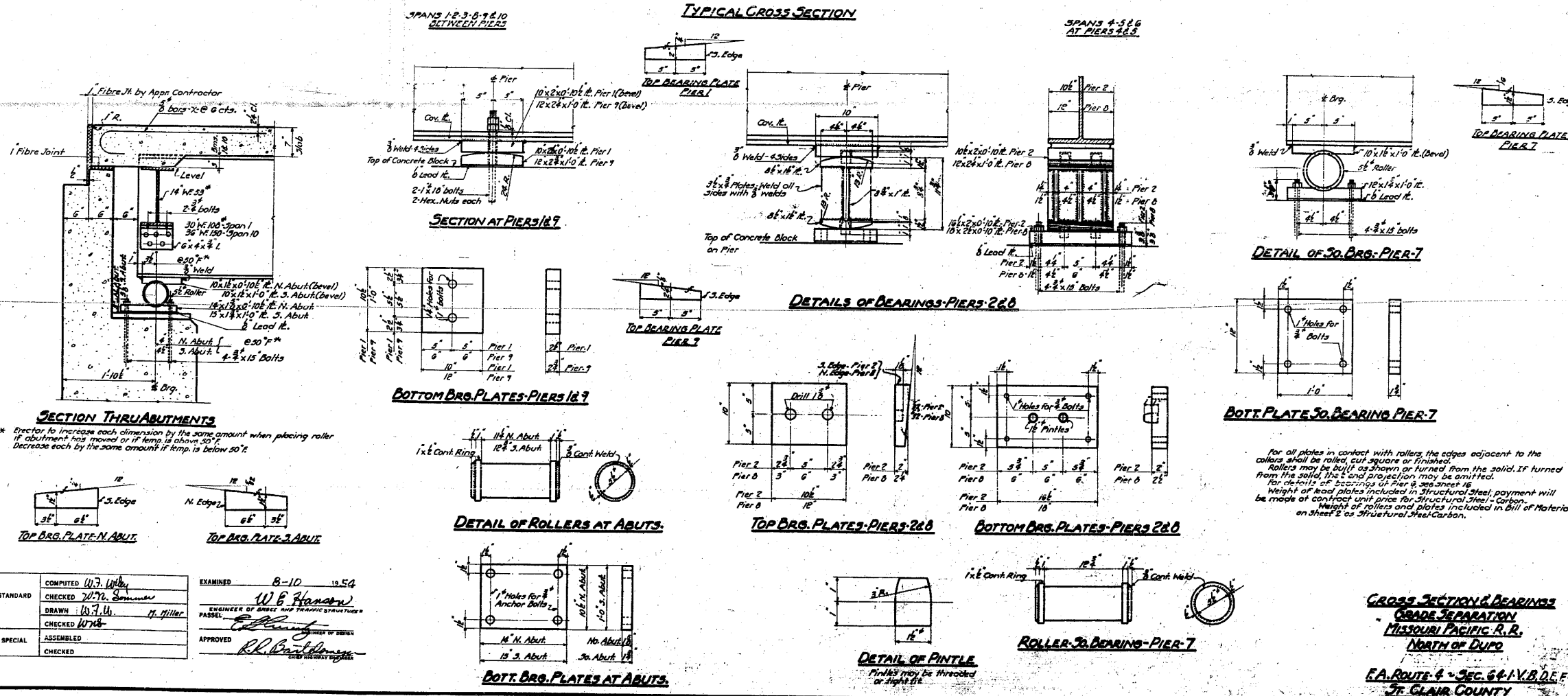
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312	64-1VBR	ST. CLAIR	259	112
CONTRACT NO. 76882				
ILLINOIS FED. AID PROJECT				

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

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	64-1VBR	ST. CLAIR	259	113
SHEET NO. 13 30 SHEETS				



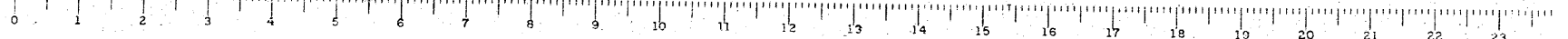
TYPICAL CROSS SECTION



For all plates in contact with rollers, the edges adjacent to the rollers shall be rolled, cut square or finished.
Rollers may be built as shown or turned from the solid. If turned from the solid, the 4 and projection may be omitted.
For details of bearings of Pier 6, see sheet 16.
Weight of lead plates included in Structural Steel payment will be made of contract unit price for Structural Steel + Carbon.
Weight of rollers and plates included in Bill of Material on sheet 2 as Structural Steel-Carbon.

CROSS SECTION & BEARINGS
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
E.A. ROUTE 4 - SEC. 64-1V.B.D.E.F.
ST. CLAIR COUNTY

STANDARD	COMPUTED W.F. Wiley	EXAMINED 8-10 1954
	CHECKED W.F. Wiley	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
	DRAWN W.F. Wiley	APPROVED
	CHECKED W.F. Wiley	
SPECIAL	ASSEMBLED	
	CHECKED	



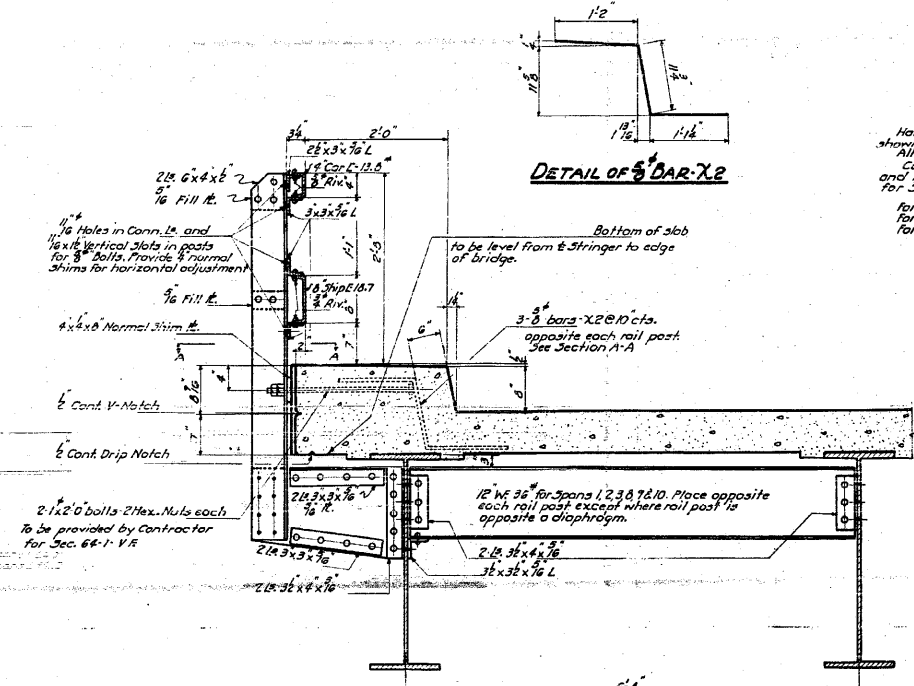
FOR INFORMATION ONLY

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

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

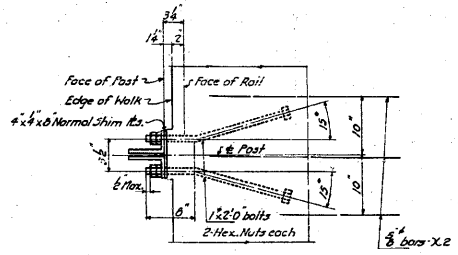
ROAD DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64-1-10	St. Clair	St. Clair	75	14
PER. ROAD DIST. NO. 1	ILLINOIS	PER. ROAD DIST. NO. 1	15	14

SHEET NO. 14
30 SHEETS

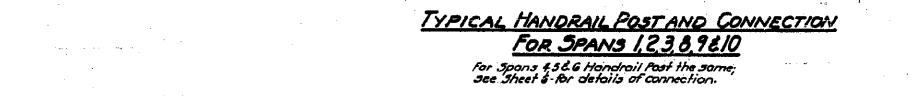


DETAIL OF BAR-X2

NOTE
Handrail Posts shall be fabricated so that the rail dimensions shown can be maintained at all posts.
All posts shall be truly vertical.
Contractor for Sec. 64-1-V.E. shall align, assemble and rivet handrail posts and brackets, Contractor for Sec. 64-1-V.D. shall secure posts to anchor bolts.
For location and spacing of Handrail Posts see Sheets 5, 6 & 7.
For detail of end diaphragm of Pier 7, see Sheet 16.
For detail of end diaphragm of Pier 3, see Sheet 15.



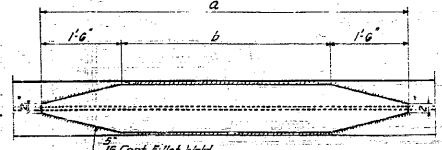
SECTION A-A



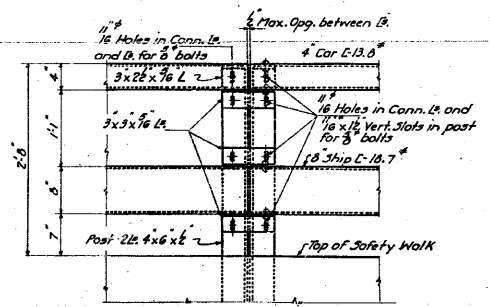
TYPICAL HANDRAIL POST AND CONNECTION FOR SPANS 1, 2, 3, 6, 7 & 10

CONNECTION AT END DIAPHRAGMS SPAN 3 AT PIER 3 AND SPAN 6 AT PIER 7

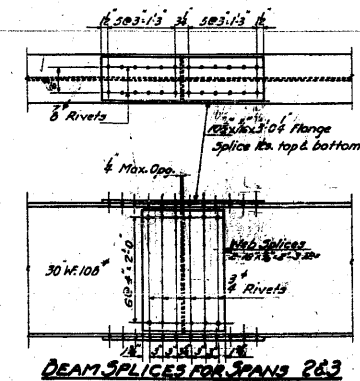
DETAIL A CONNECTION AT INTERMEDIATE DIAPHRAGMS



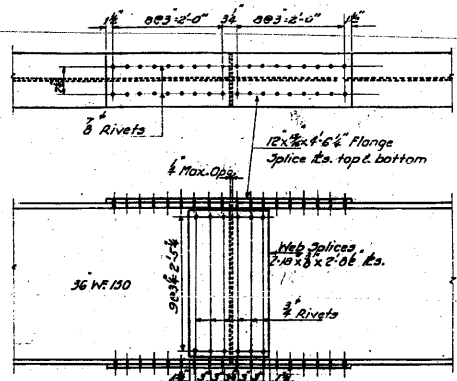
DETAIL OF COVER PLATES



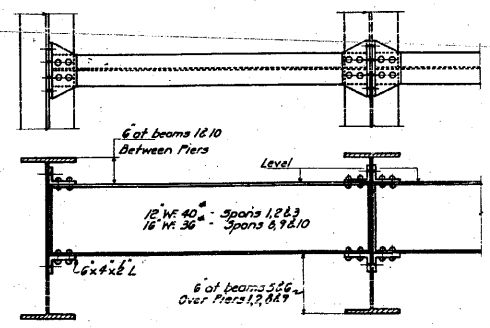
ROADWAY FACE ELEVATION OF RAIL SHOWING SPICINGS OF CHANNELS



BEAM SPICES FOR SPANS 2 & 3



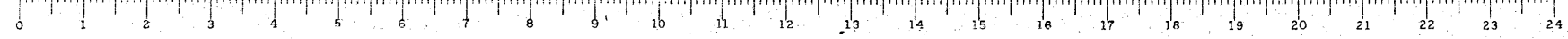
BEAM SPICES FOR SPANS 6, 7 & 10



DETAILS OF INTERMEDIATE DIAPHRAGMS

COMPUTED	W. J. Miller	EXAMINED	8-10 1954
CHECKED	W. J. Miller	DESIGNED	W. E. Hanson
DRAWN	W. J. Miller	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	
CHECKED	W. J. Miller	PASSED	
SPECIAL		APPROVED	R. R. [Signature]

DECK DETAILS
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
F.A. ROUTE 4 - SEC. 64-1-V.D.E.F.
ST. CLAIR COUNTY



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
...N14-D876882-exist-bridge-plans-14.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

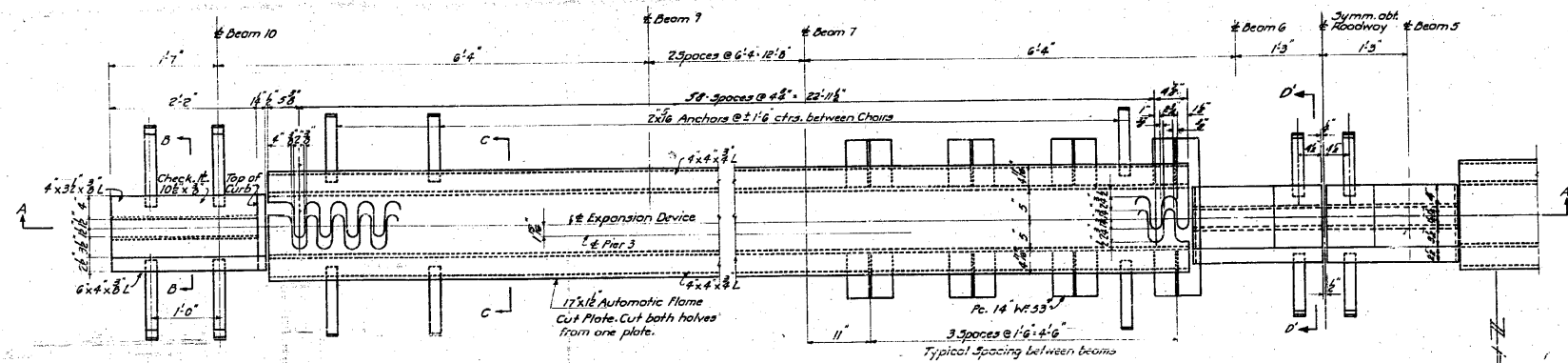
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	114
CONTRACT NO. 76882			ILLINOIS FED. AID PROJECT	

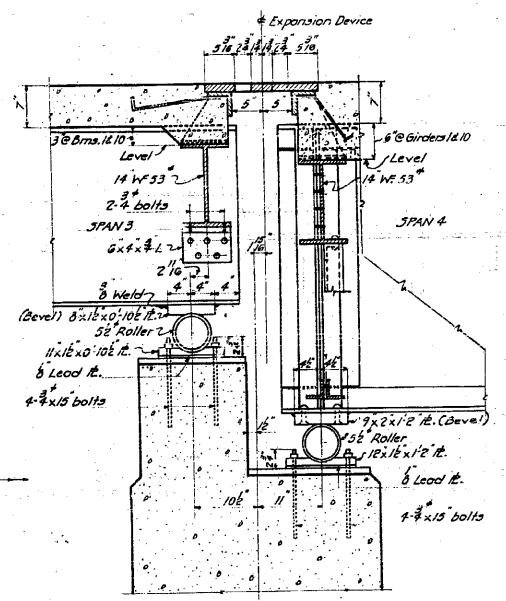
Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

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

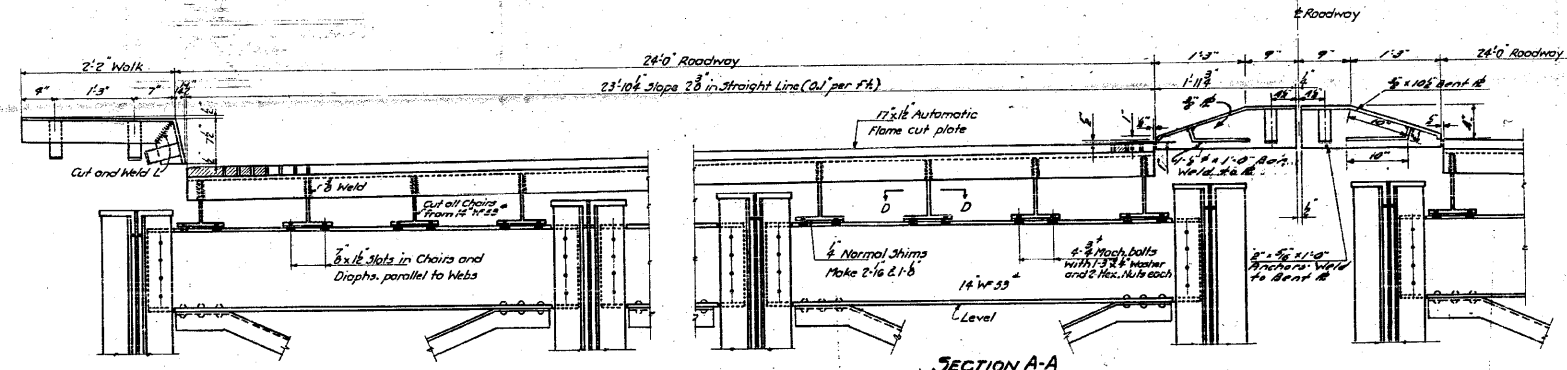
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64-1VBR	ST. CLAIR	259	115
SHEET NO. 15 30 SHEETS			



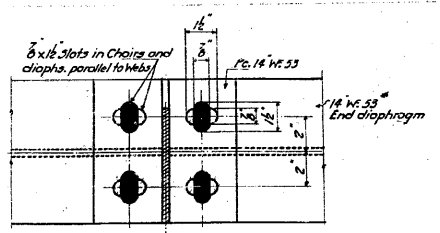
PLAN OF EXPANSION DEVICE-PIER 3
Openings between expansion plates are shown for a normal temperature of 30° F.



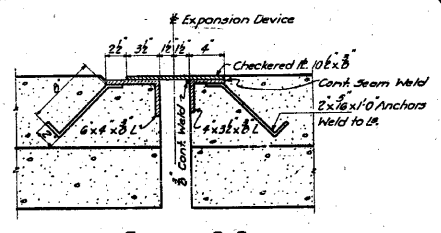
SECTION AT PIER 3



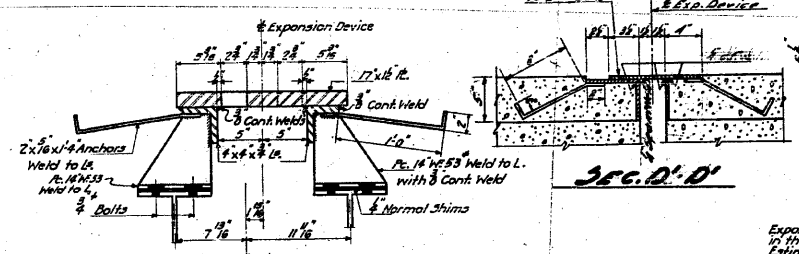
SECTION A-A



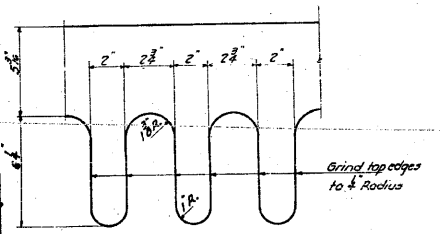
SECTION D-D



SECTION B-B



SECTION C-C



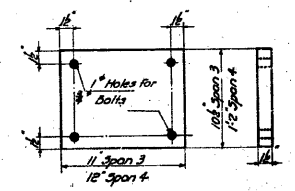
DETAIL OF EXPANSION PLATE

Expansion devices shall be inspected in the shop in their assembled position before painting.
Estimated weight of expansion device at Pier 3 included in Bill of Material on Sheet 2 as Structural Steel Carbon 4900 lbs.

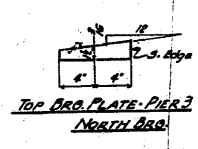
STANDARD	COMPUTED W.F. 1/4	EXAMINED B-10 10-54
	CHECKED W.M. 2	DESIGNED W.E. Hanson
	DRAWN W.F. 10	PASSED [Signature]
	CHECKED W.V. 10	APPROVED R.R. [Signature]
SPECIAL	ASSEMBLED	
	CHECKED	



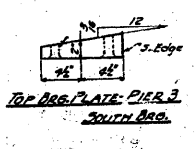
DETAILS OF ROLLERS-PIER 3



BOTTOM BRG. PLATES-PIER 3

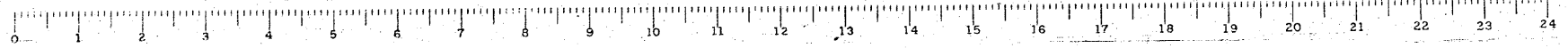


TOP BRG. PLATE-PIER 3 NORTH BRG.



TOP BRG. PLATE-PIER 3 SOUTH BRG.

EXPANSION DEVICE-PIER 3
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
E.A. ROUTE 4 - JRG. 64-1VBR
ST. CLAIR COUNTY



FOR INFORMATION ONLY

FILE NAME = ...115-D876882-exist-bridge-plans-15.dgn	USER NAME = CFC...	DESIGNED -	REVISED -
PLOT SCALE = 40.000000' / IN.	DATE = 8/5/2010	DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(ORIGINAL PLANS)

SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.
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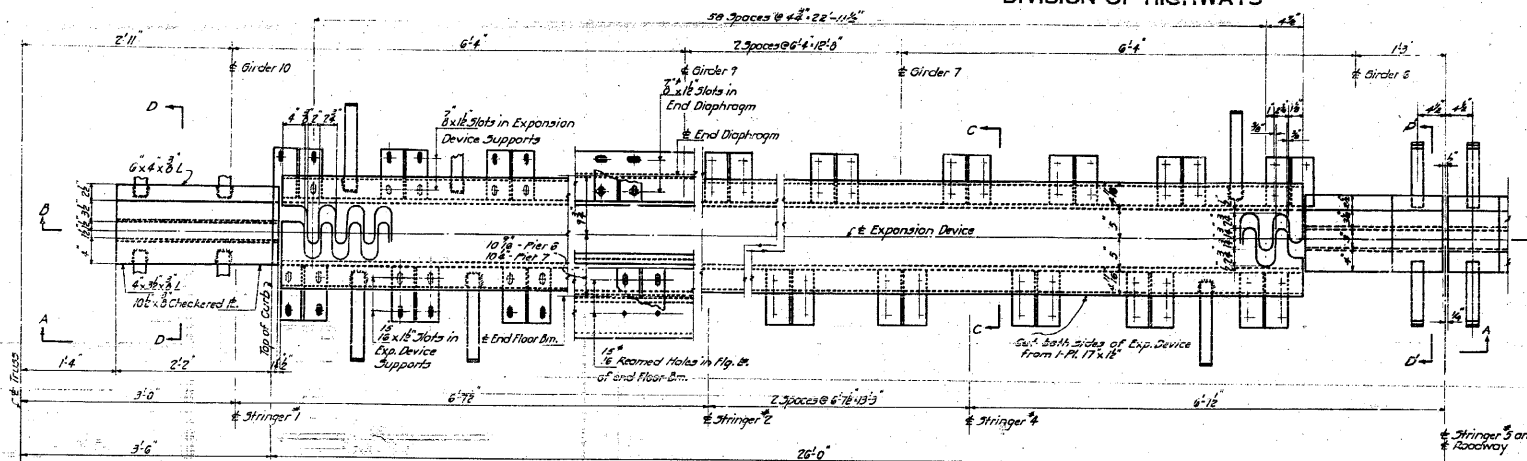
CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	115
CONTRACT NO. 76882				
ILLINOIS FED. AID PROJECT				

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

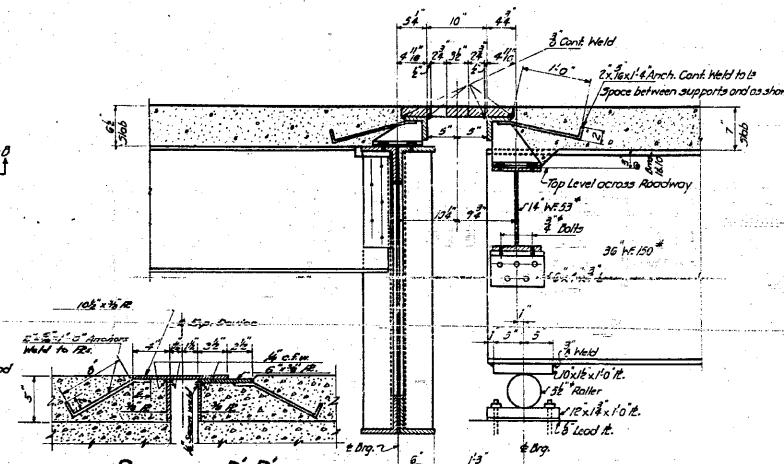
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64-1VBR	ST. CLAIR	259	116

SHEET NO 16
30 SHEETS



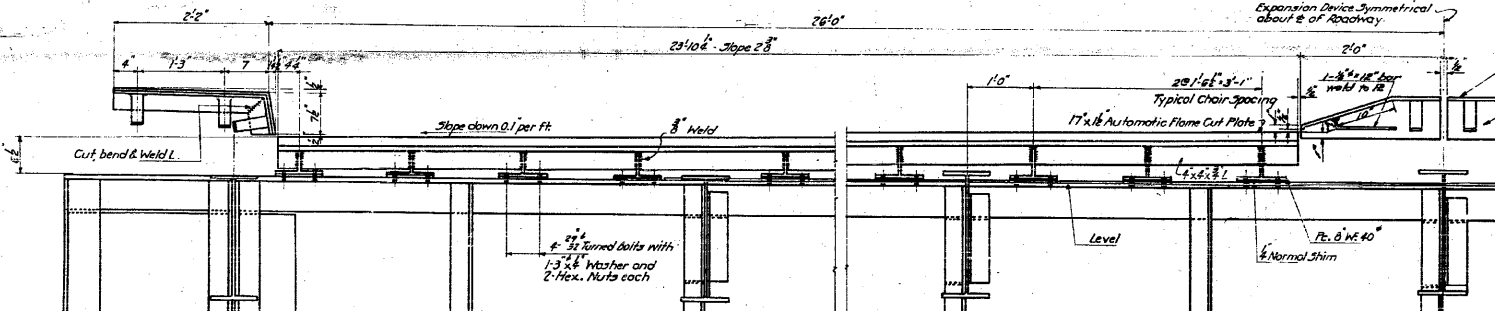
PLAN OF EXPANSION DEVICE AT PIER 6

Expansion Device at Pier 7 Similar



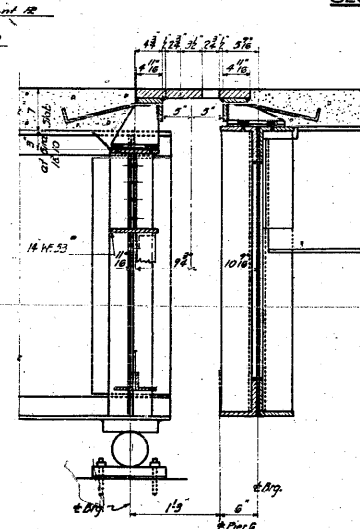
SECTION D-D'

SECTION C-C AT PIER 7



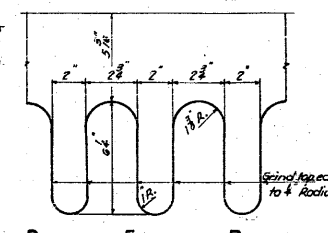
SECTION A-A

Note: Compensation for D.L. Deflection of End Floor beams shall be made. See Sheet 10

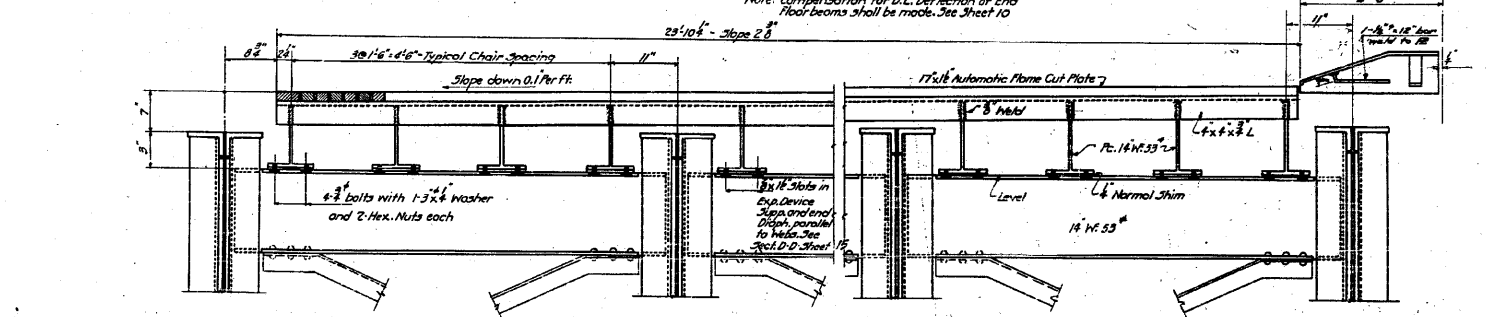


SECTION C-C AT PIER 6

Details not shown are same as at Pier 7



DETAIL OF EXPANSION PLATE



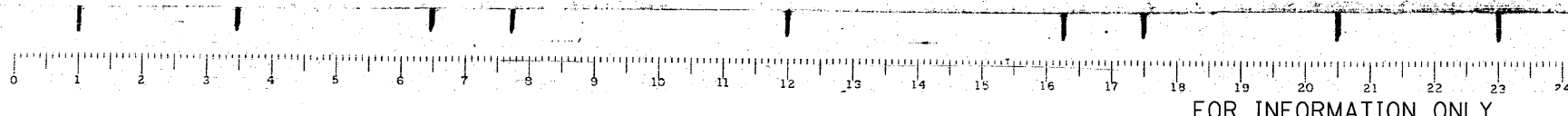
PART SECTION B-B

Exp. Device at Pier 6 Shown. Device at Pier 7 Similar

Estimated weight of Expansion Devices Pier 6 & 7 included in Bill of Material Sheet 2. @ Structural Steel Carbon Manganese Use.

STANDARD	COMPUTED	W. J. Lilly	EXAMINED	B-10	1954
	CHECKED	W. N. Sommer		W. E. Hanson	
	DRAWN	W. J. Lilly		J. Miller	
	CHECKED	W. N. Sommer			
SPECIAL	ASSEMBLED		APPROVED		
	CHECKED				

EXPANSION DEVICES - PIERS 6 & 7
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
E.A. ROUTE 4 - SEC. 6 & 14 T. 12 N. R. 7 E.
ST. CLAIR COUNTY



FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
...116-D076882-exist-bridge-plans-16.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(ORIGINAL PLANS)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

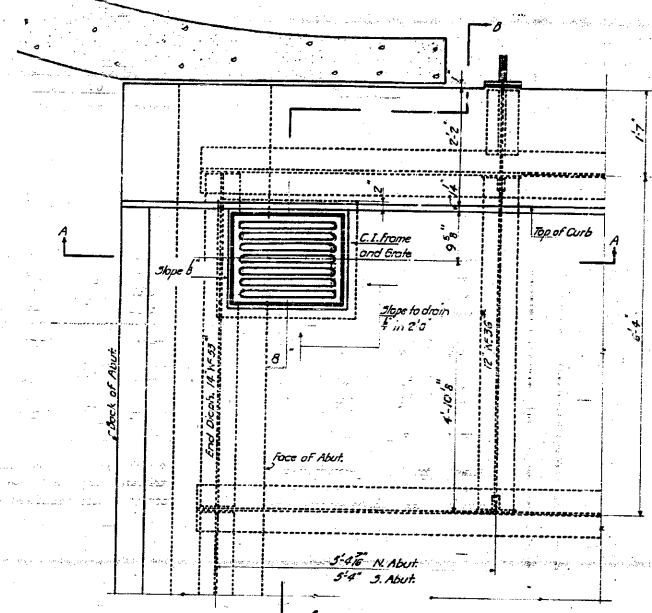
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	116

CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT

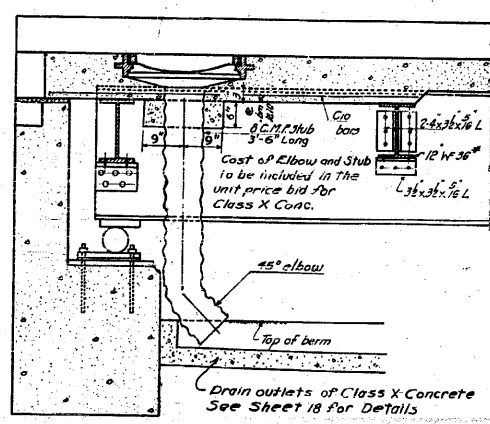
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROAD DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64-IVBR	17	St. Clair	16	17
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 17
30 SHEETS



PLAN OF DECK DRAINS AT ABUTMENTS



SECTION A-A

BILL OF MATERIAL SPANS 1-2&3

BAR	NO.	SIZE	LENGTH
Q10	360	3"	30'6"
Q11	338	3"	29'0"
Q12	328	3"	28'6"
Q13	84	2"	2'0"
B10	190	3"	34'6"
B11	420	3"	34'6"
B12	144	3"	18'9"
B13	40	2"	22'9"
B14	40	2"	8'9"
B15	18	2"	23'6"
C10	22	3"	8'9"
X	112	3"	4'9"
X2	108	3"	3'9"
U11	328	5"	2'9"

Class X Concrete Cu. Yd. 229.0
Reinforcement Bars Lbs. 48440
Structural Steel Carbon Lbs. 28110

BILL OF MATERIAL SPANS 6-9&10

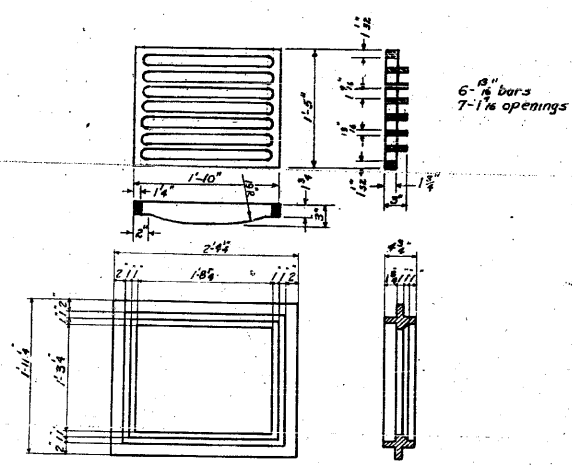
BAR	NO.	SIZE	LENGTH
Q10	818	3"	30'6"
Q11	816	3"	27'0"
Q12	316	3"	23'6"
Q13	184	2"	2'0"
B10	304	3"	37'0"
B11	672	3"	37'0"
B12	60	2"	23'9"
B13	40	2"	14'9"
B14	74	2"	28'0"
B15	144	3"	32'0"
U11	570	5"	2'9"
C10	22	3"	8'9"
X	112	3"	4'9"
X2	108	3"	3'9"

Class X Concrete Cu. Yd. 394.9
Reinforcement Bars Lbs. 82420
Structural Steel Carbon Lbs. 746790

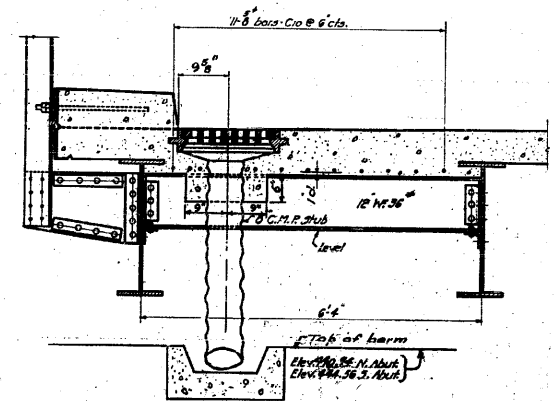
BILL OF MATERIAL SPANS 8-9&10

BAR	NO.	SIZE	LENGTH
Q10	880	3"	30'6"
Q11	478	3"	27'0"
Q12	178	3"	23'6"
Q13	112	2"	2'0"
B10	228	3"	38'0"
B11	504	3"	38'0"
B12	40	2"	27'0"
B13	40	2"	11'9"
B14	44	2"	31'9"
B15	144	3"	24'9"
C10	22	3"	8'9"
X	112	3"	4'9"
X2	108	3"	3'9"
U11	440	5"	2'9"

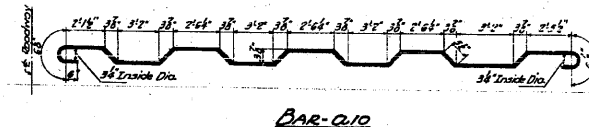
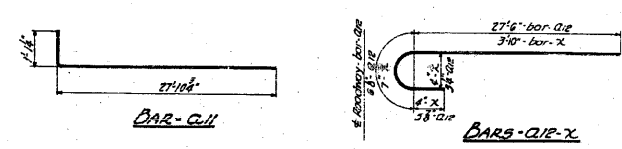
Class X Concrete Cu. Yd. 306.2
Reinforcement Bars Lbs. 64470
Structural Steel Carbon Lbs. 453220



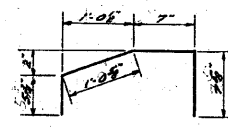
DETAIL OF C.I. FRAME & GRATE
10 Req'd.



SECTION B-B



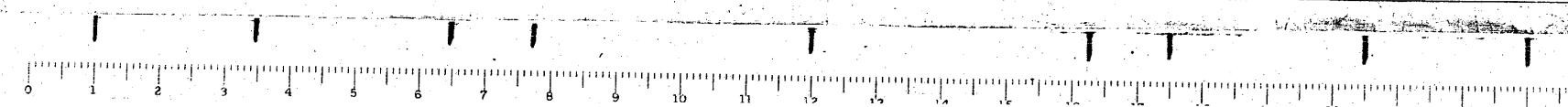
BAR-Q10



BAR-U11

COMPUTED	W. J. W.	EXAMINED	B-10 1954
CHECKED	W. J. W.	PASSED	W. E. Hanson
DRAWN	W. J. W.	APPROVED	R. L. [Signature]
CHECKED	W. J. W.		
ASSEMBLED			
CHECKED			

DECK DETAILS
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
I.A. ROUTE 4 - SEC. 64-1-V.D.E.P.
ST. CLAIR COUNTY



FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.

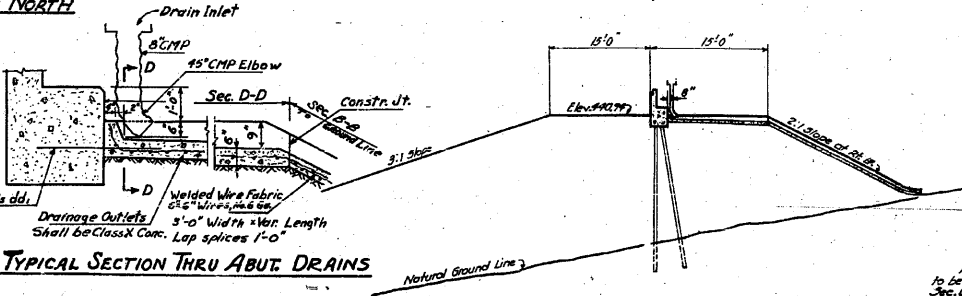
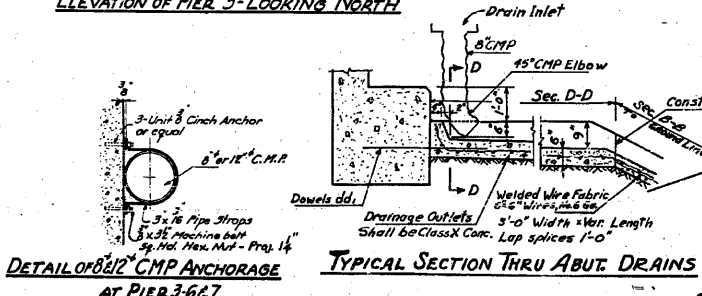
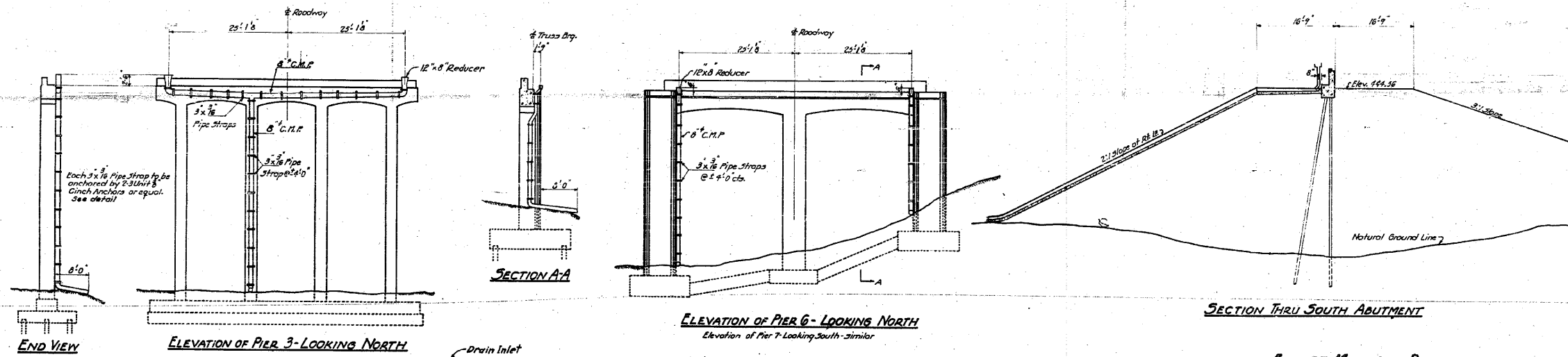
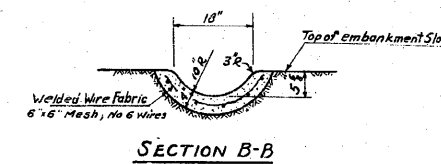
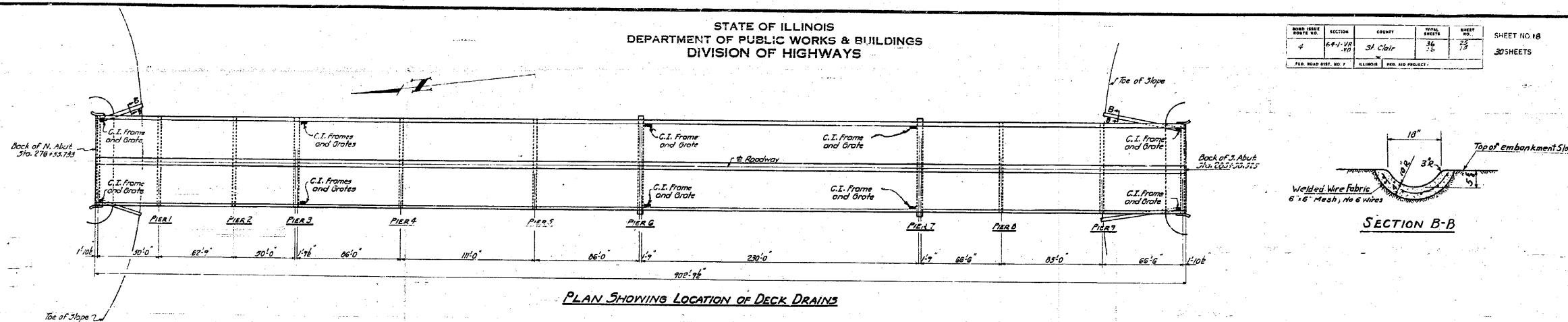
CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	299	117

CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT

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

ROAD DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64-1VBR	St. Clair	St. Clair	16	15
SHEET NO. 18 30 SHEETS				



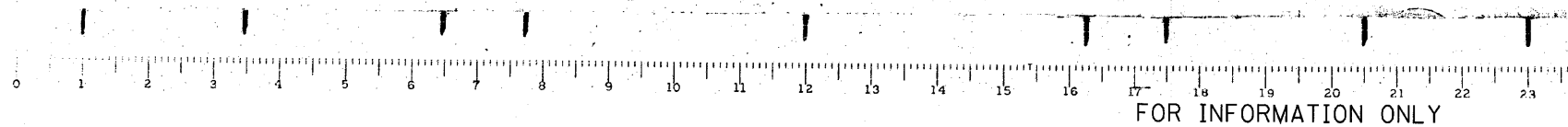
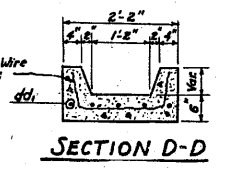
BILL OF MATERIAL DRAINS

ITEM	QUANTITY
8" Corc Metal Pipe	Lin. Ft. 500
Cast Iron Frames	Each 10
Class X Concrete	Cu. Yds. 7.6

NOTE:
All Class X Concrete drain outlets to be furnished and installed by the Contractor for Sec. 64-11B. All other drainage material to be furnished and installed by the Contractor for Sec. 64-11D. The cost of all hangers, pipe straps, anchors, blocks, reducers and connections to be included in the cost of corrugated metal pipe. The cost of all 8" C.M.P. shall be included in the cost of Class X Concrete - Sec. 64-11D. For details of frames and grates see Sheet 17. The cost of welded wire fabric shall be included in the unit price bid for Class X Concrete.

**DECK DRAINAGE
GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO
E.A. ROUTE 4 - SEC. 64-1VBR
ST. CLAIR COUNTY**

COMPUTED	W. J. W. Miller	EXAMINED	8-10-1954
CHECKED	W. J. W. Miller	ENGINEER OF BRIDGE AND TRUSS STRUCTURES	W. E. Hanson
DRAWN	W. J. W. Miller	PASSED	[Signature]
CHECKED	W. J. W. Miller	APPROVED	R. B. [Signature]
SPECIAL	ASSEMBLED		
	CHECKED		



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		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(ORIGINAL PLANS)
SCALE: SHEET NO. OF SHEETS STA. TO STA.

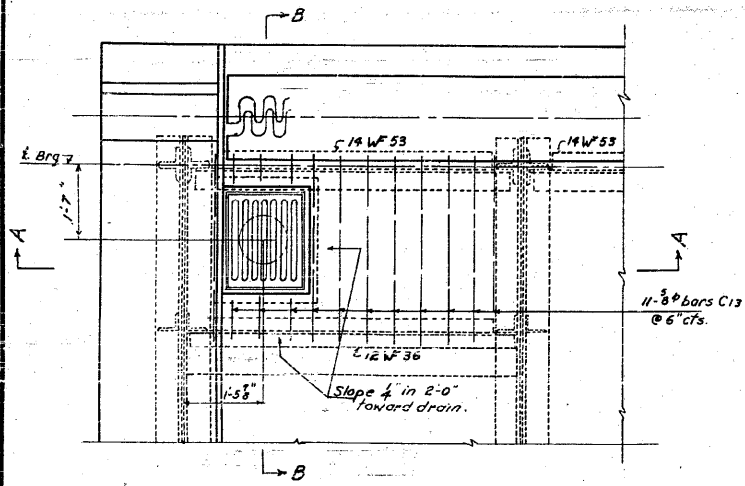
CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	118
				CONTRACT NO. 76882

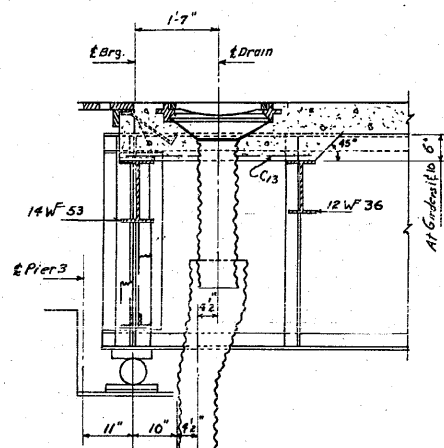
ILLINOIS FED. AID PROJECT

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

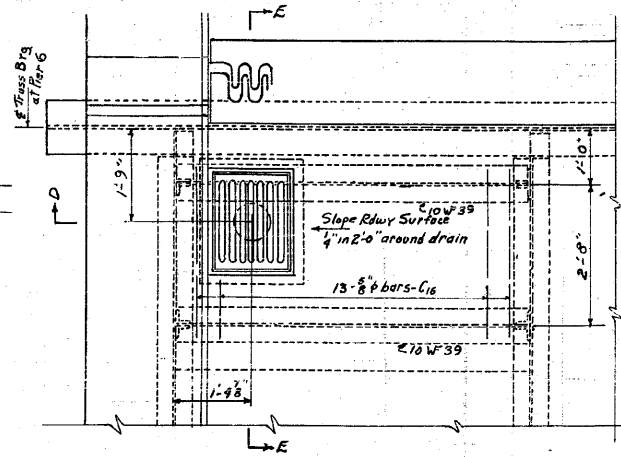
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70 SHEETS				
ILLINOIS FED. AID PROJECT				



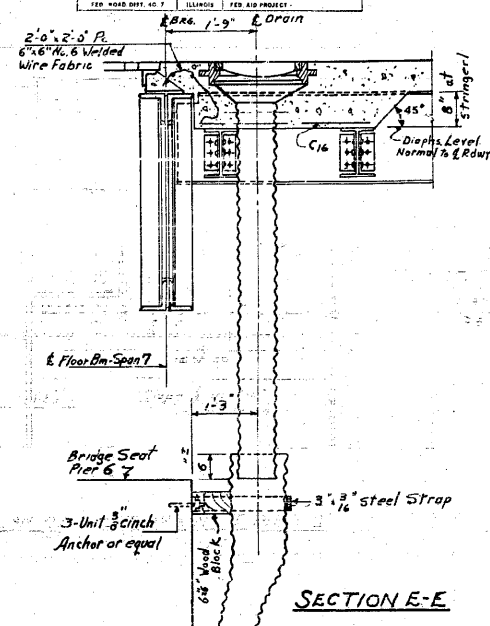
PLAN OF WEST DRAIN AT PIER 3
EAST DRAIN SIMILAR



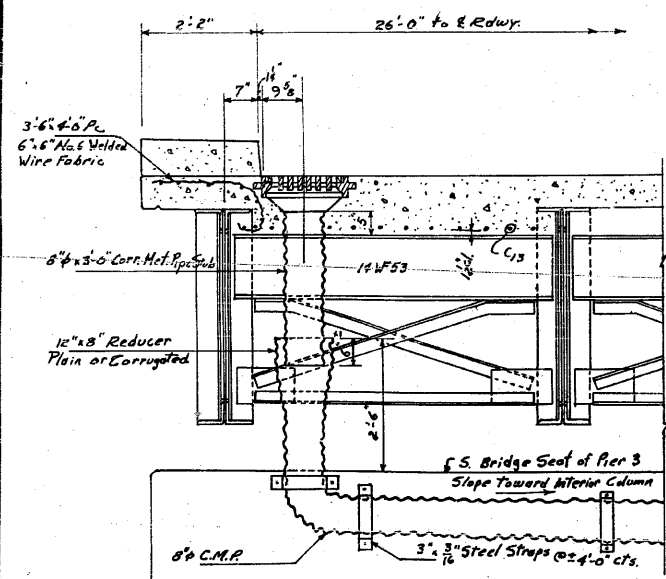
SECTION B-B



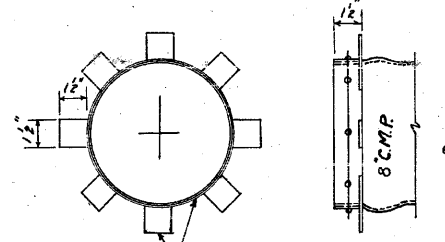
PLAN OF WEST DRAIN AT PIER 6
ALL DRAINS ON TRUSS ARE SIMILAR



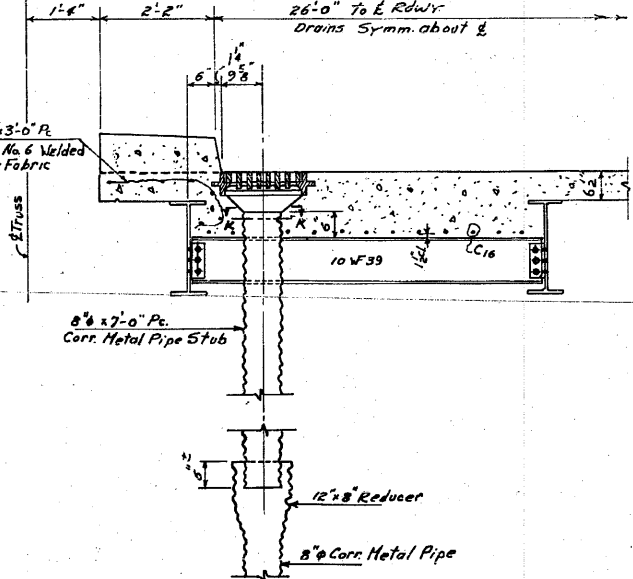
SECTION E-E



SECTION A-A



SECTION K-K
Detail of CMP stubs used at drains in span 7

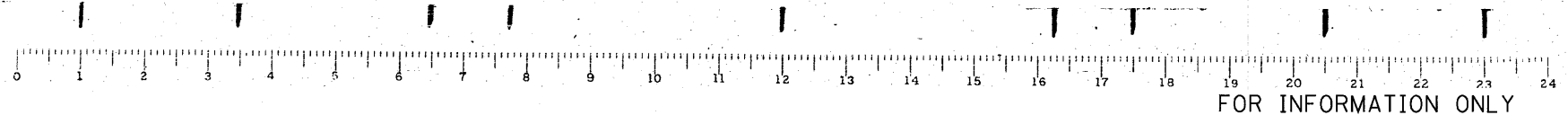


SECTION D-D

COST OF 8" CMP STUBS TO BE INCLUDED IN UNIT PRICE BID FOR CLASS X CONCRETE.
COST OF REDUCERS TO BE INCLUDED IN THE UNIT PRICE BID FOR CLASS X CONCRETE.
CUT ALL REINFORCEMENT BARS IN THE FIELD TO FIT AROUND DRAIN OPENINGS.
THE COST OF WELDED WIRE FABRIC SHALL BE INCLUDED IN THE UNIT PRICE BID PER CU. YD. FOR CLASS X CONCRETE FOR SEC. 64-1VD.
FOR DETAILS OF FRAME AND GRATES SEE SHEET 17.
FOR LOCATION OF DRAINS ON PIERS SEE SHEET 18.

DRAINAGE DETAILS
MISSOURI PACIFIC R.R.
NORTH OF DUPO
FA. ROUTE 4 ~ SEC. 64-1-V.D.
ST. CLAIR COUNTY

COMPUTED	W. N. Bommer	EXAMINED	B-10 1954
CHECKED	A. J. Harris	ENGINEER OF PUBLIC WORKS & BUILDINGS	W. E. Hamann
DRAWN	W. N. Bommer	PASSED	[Signature]
CHECKED	A. P. H.	APPROVED	[Signature]
SPECIAL	ASSEMBLED		
	CHECKED		



FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
...\\119-D876882-exist-bridge-plans-19.dgn		DRAWN -	REVISED -
	PLOT SCALE = 48,000,000 / 1 IN.	CHECKED -	REVISED -
	PLOT DATE = 8/5/2018	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(ORIGINAL PLANS)

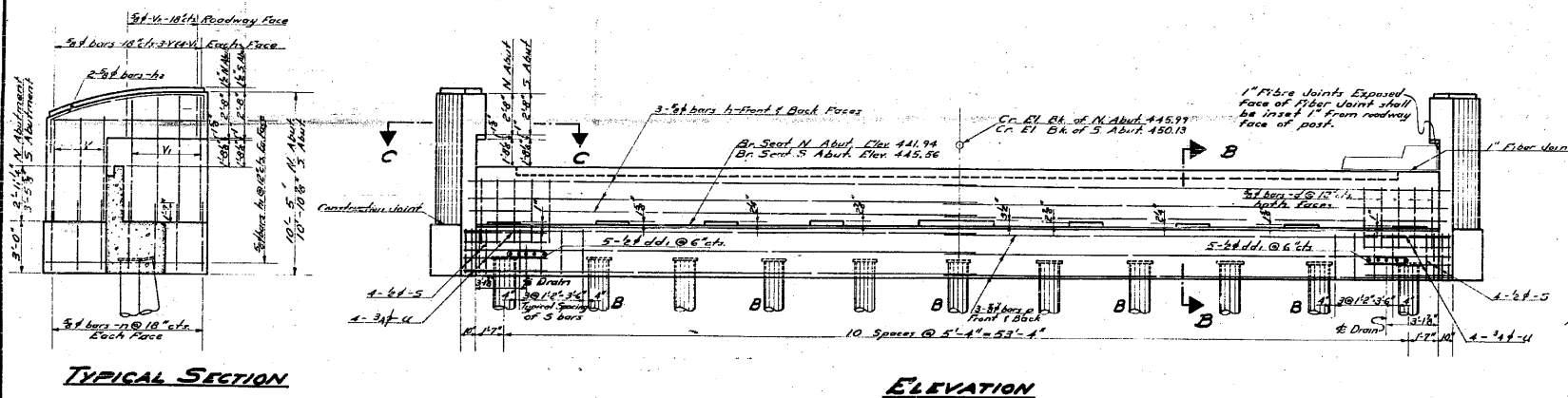
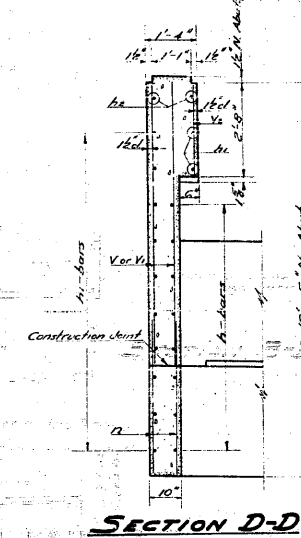
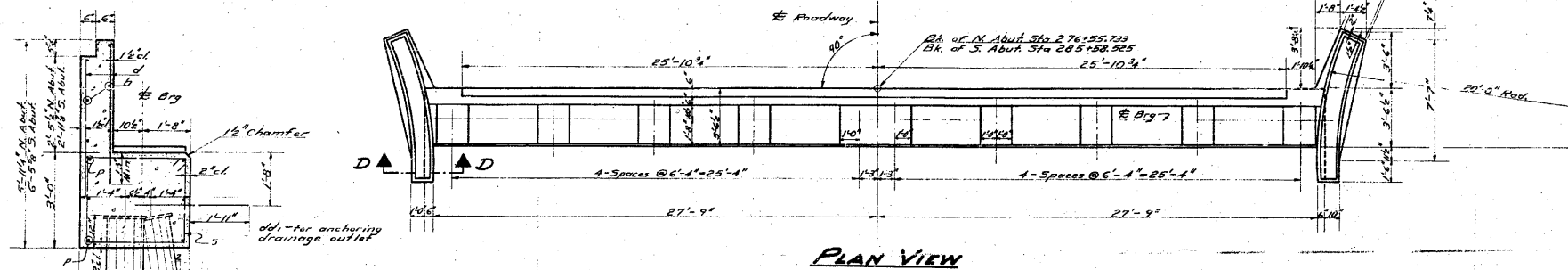
SCALE: SHEET NO. OF SHEETS STA. TO STA.

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	255	119
CONTRACT NO. 76882				
ILLINOIS FED. AID PROJECT				

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64-1-VB	St. Clair	St. Clair	26	20
SHEET NO. 20				
30 SHEETS				



TYPICAL SECTION

ELEVATION

Note: Piles marked "B" shall be driven to bottom, as shown in Sec. D-D

Note:
N. Abut. 14" #7 Gauge Metal Shell Pile Capacity 35 Ton Length 65'-0"
10 - Pgs of 1-Test Piles
S. Abut. 14" #7 Gauge Metal Shell Piles Capacity 35 Ton Length 65'-0"
10 - Pgs of 1-Test Piles

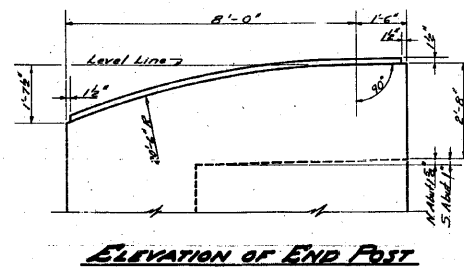
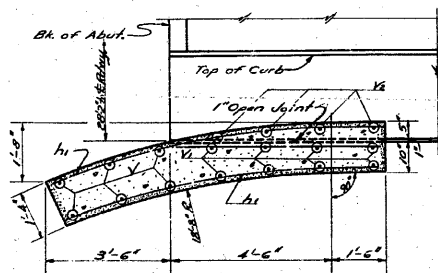
BILL OF MATERIAL - 2 ABUTS.

BAR	NO	SIZE	LENGTH	SHAPE
h	24	3/4"	29'-0"	
h1	72	3/8"	9'-0"	
h2	8	3/8"	12'-0"	
v	24	3/8"	6'-0"	
v1	32	3/8"	7'-0"	
v2	16	3/8"	2'-3"	
d	228	5/8"	4'-3"	
dd1	20	1/2"	3'-9"	
p	24	3/8"	29'-9"	
u	16	3/8"	12'-7"	
w	56	3/8"	4'-6"	
s	96	1/2"	12'-6"	

Class X Concrete Cu Yds. 72.7
Reinforcement Bars Lbs. 5820
14" Metal Shell Piles Lin Ft. 1300
14" Metal Shell Test Piles Ea. 2
Class A Expansion for Structures Cu Yds. 75.0

BAR~S

BAR~U

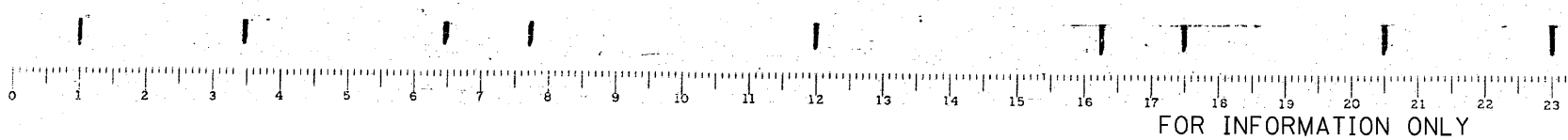


ABUTMENTS

GRADE SEPARATION
MISSOURI PACIFIC R.R.
NORTH OF DUPO

F.A. RT. 4 SECTION 64-1-VB
ST. CLAIR COUNTY

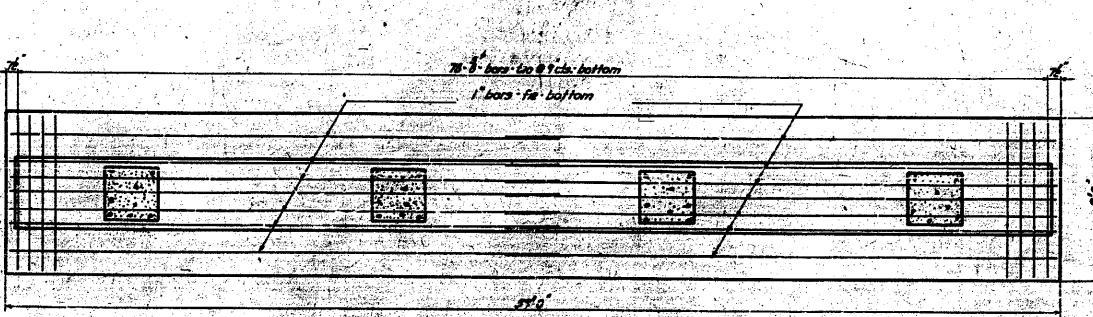
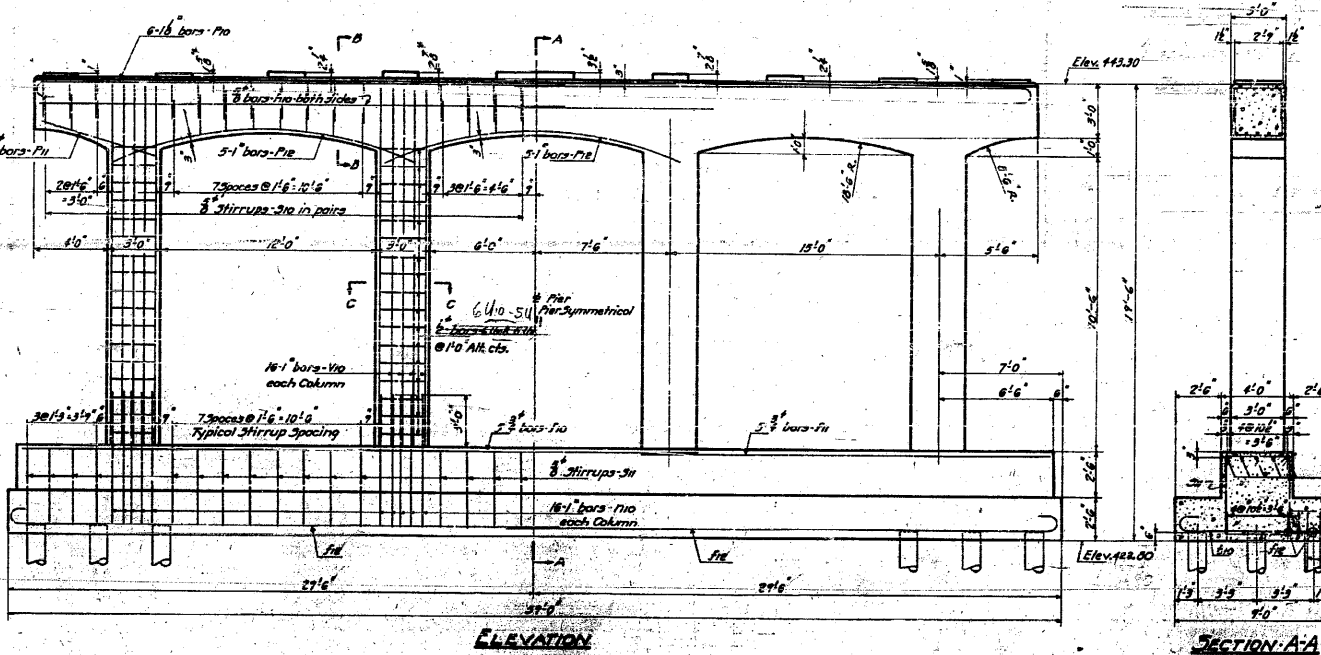
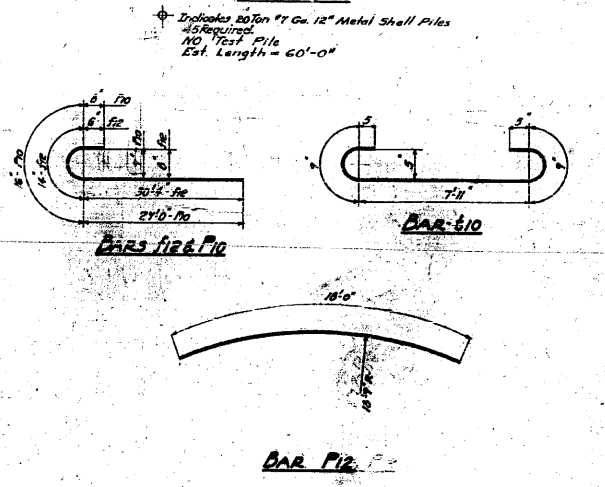
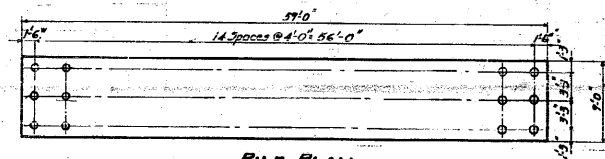
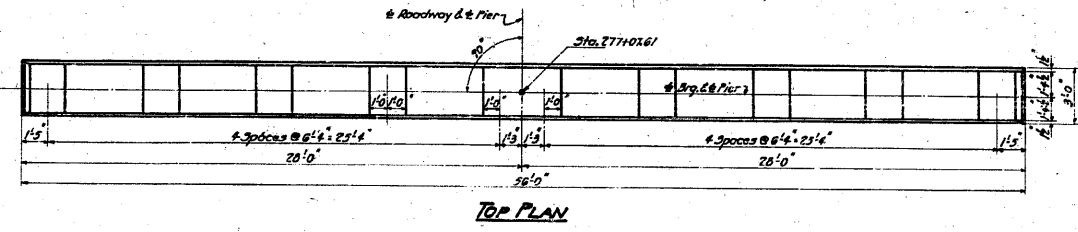
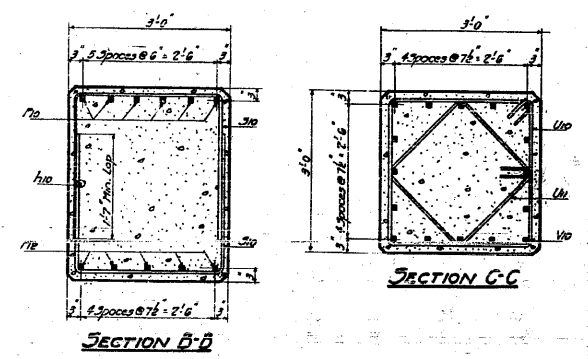
DESIGNED <i>Fugent M. Schick</i>	EXAMINED <i>W.E. Hanson</i>
CHECKED <i>W. H. Sommer</i>	PASSED <i>[Signature]</i>
DRAWN <i>F. M. A. R. V. C. H. F. F. W.</i>	APPROVED <i>[Signature]</i>
CHECKED <i>W. H. S.</i>	



CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

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

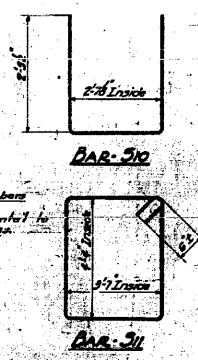
DESIGN NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8-10	64-IVBR	St. Clair	36	27
SHEET NO. 27 80 SHEETS				



BILL OF MATERIAL

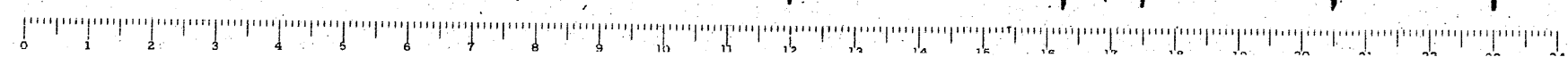
BAR NO.	NO.	SIZE	LENGTH
#10	5	3"	37'-3"
#11	5	3"	22'-3"
#12	14	1"	32'-0"
#13	4	3"	23'-6"
#14	64	1"	7'-6"
#15	12	1 1/2"	31'-0"
#16	6	3"	7'-0"
#17	13	1"	18'-0"
#18	60	3"	7'-6"
#19	32	3"	17'-0"
#20	74	3"	10'-9"
#21	24	2"	11'-6"
#22	20	2"	8'-6"
#23	64	1"	14'-0"

Class II Concrete Cu Yds. 1058
Reinforcement Bars lbs. 11,540
1/2" Metal Shell Piles Lin. Ft. 2,700
Class A Etc. for Struc. Cu Yds. 120



COMPUTED	W. J. Wiley	EXAMINED	B-10 1954
CHECKED	W. E. Hanson	PASSED	
DRAWN	W. J. Wiley	APPROVED	R. R. [Signature]
CHECKED			
SPECIAL	ASSEMBLED		
	CHECKED		

PIER 1
GRADE SEPARATION
MICHIGAN ST. & R.R.
ST. CLAIR COUNTY
E.B. [Signature]



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
...121-D876882-exist-bridge-plans-21.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

SN 082-0030 PLANS
(ORIGINAL PLANS)

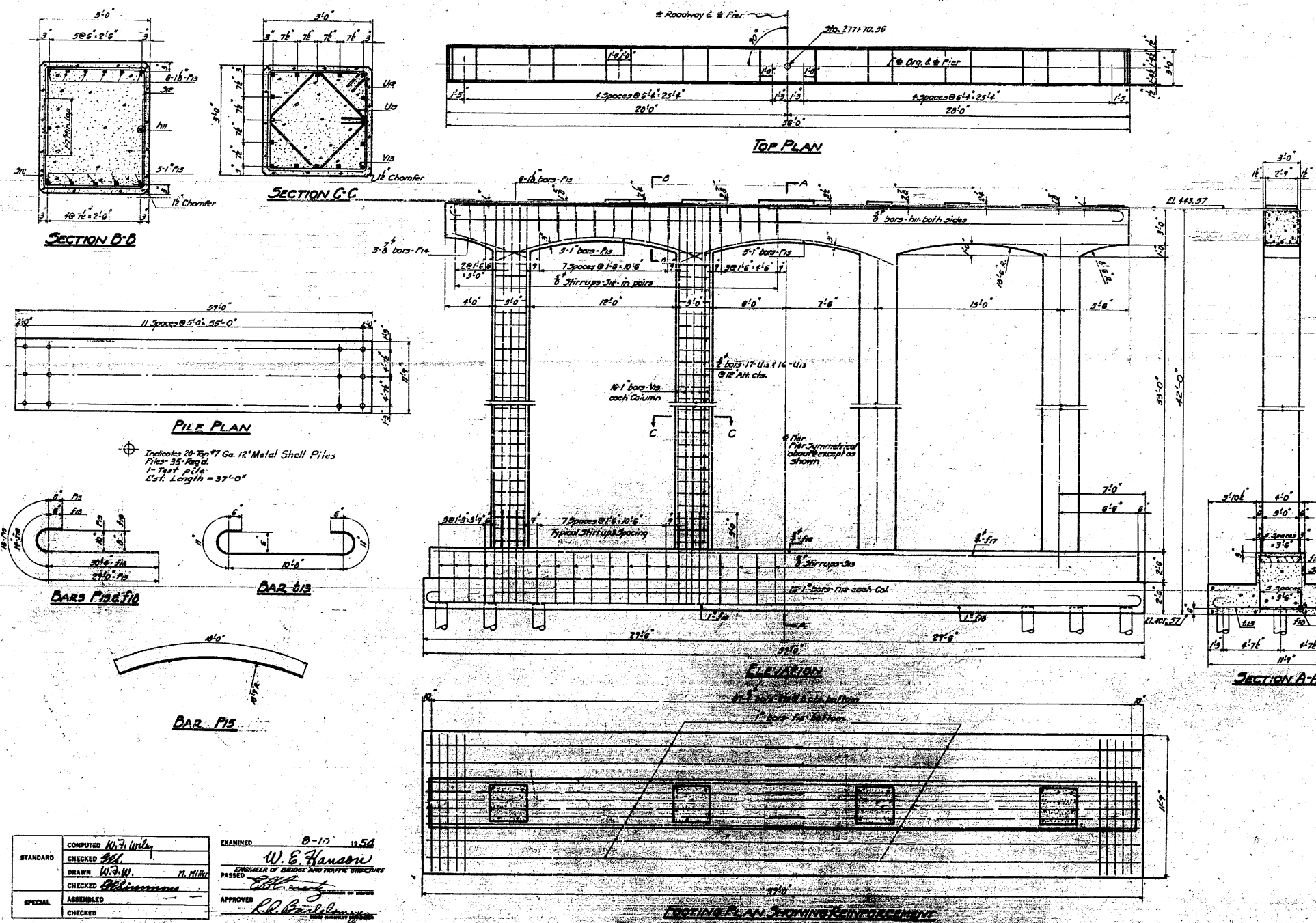
CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	121
CONTRACT NO. 76882				

ILLINOIS FED. AID PROJECT

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

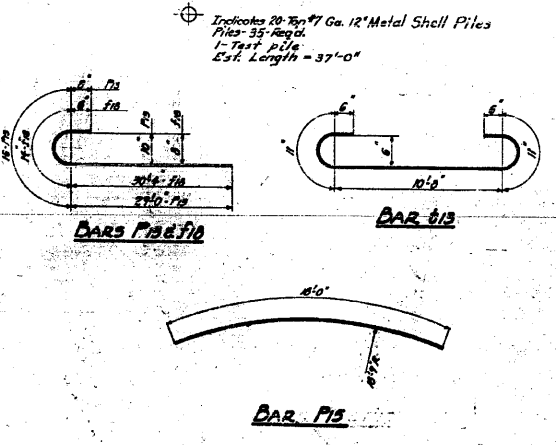
ROAD DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64-IVBR	St. Clair	36	28	22
SHEETS				



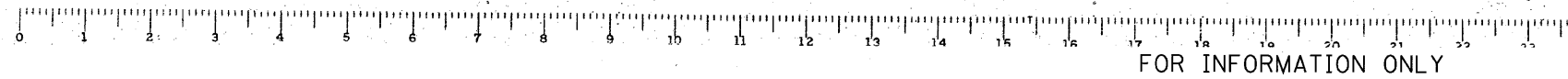
BILL OF MATERIAL

BAR NUMBER	SIZE	LENGTH
F10	10	37'-0"
F11	10	22'-9"
F12	10	32'-0"
F13	10	28'-6"
F14	10	7'-6"
F15	10	31'-0"
F16	10	7'-0"
F17	10	18'-0"
S10	10	7'-0"
S11	10	17'-0"
B10	10	13'-6"
U10	10	11'-6"
U11	10	8'-6"
V10	10	32'-0"

Class X Concrete Cu. Yds. 151.0
Reinforcement Bars Lbs. 10,670
12" Metal Shell Piles Lin. Ft. 1285
12" Metal Shell Test Piles Each 1
Class A Exc. For Struc. Cu. Yds. 155



COMPUTED	W. J. Willy	EXAMINED	8-10-1954
CHECKED	W. E. Hanson	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	
DRAWN	W. J. Willy	PASSED	
CHECKED	W. E. Hanson	APPROVED	
SPECIAL	ASSEMBLED		
	CHECKED		



CB Coombe-Bloxdorf P.C.
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- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

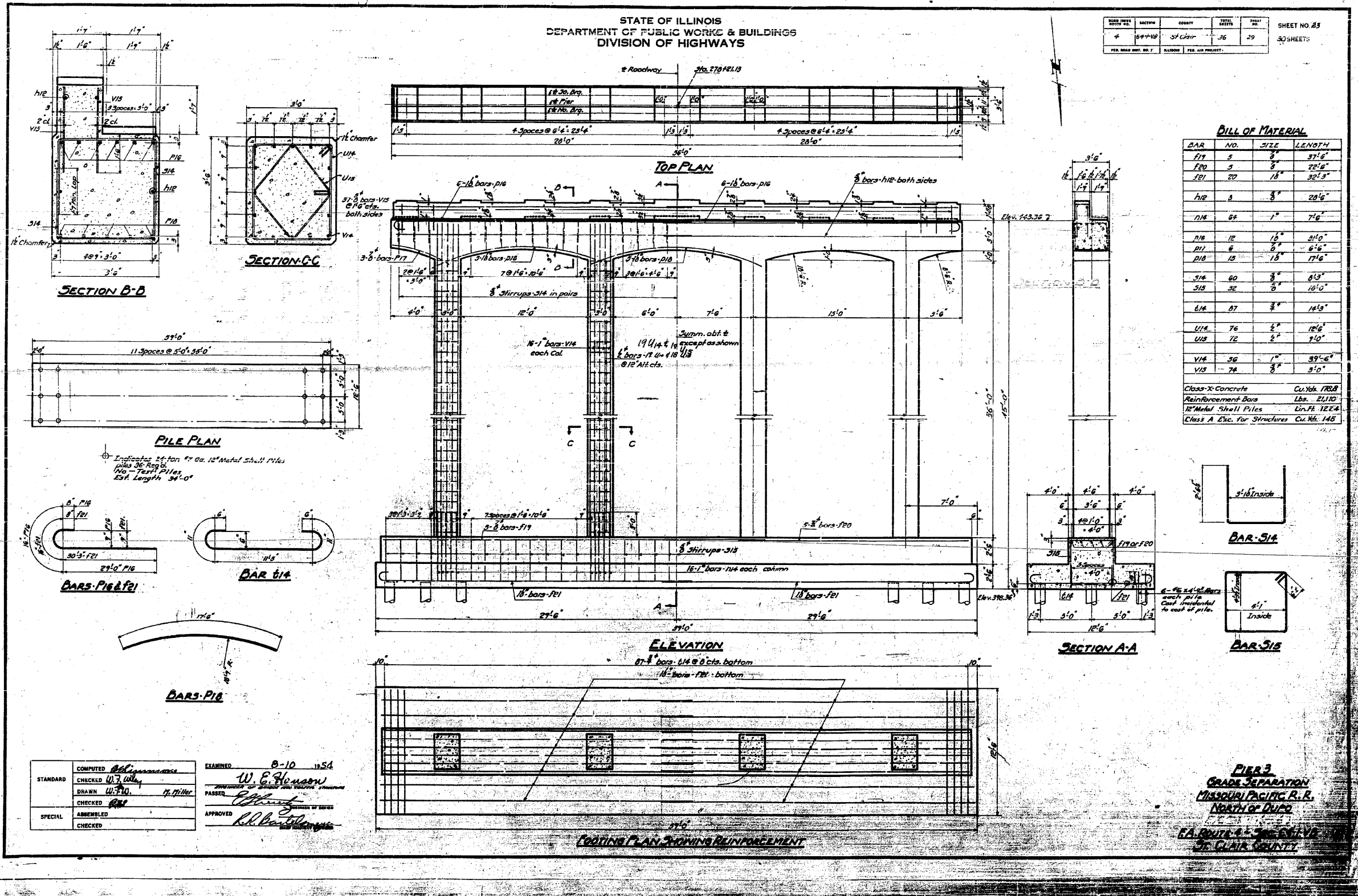
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	122
CONTRACT NO. 76882				

ILLINOIS FED. AID PROJECT

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

SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	64-1VBR	ST. CLAIR	36	29

SHEET NO. 29
30 SHEETS

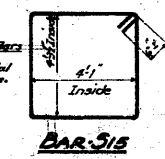
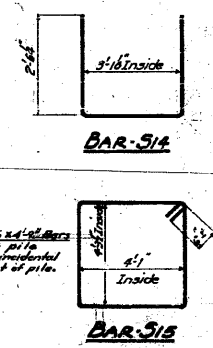
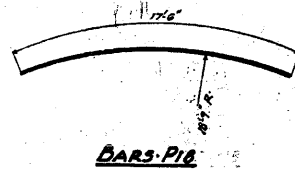
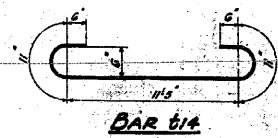
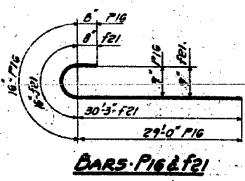


BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH
F17	5	3"	37'-6"
F20	5	3"	78'-6"
F21	20	1/2"	32'-3"
H12	3	3"	28'-6"
H14	6	1"	7'-6"
P16	12	1/2"	34'-0"
P11	6	3/4"	6'-6"
P18	15	1/2"	17'-6"
S14	60	3/8"	6'-3"
S15	32	3/8"	10'-0"
U14	87	3/8"	14'-3"
U14	76	1/2"	12'-6"
U15	72	1/2"	7'-0"
V14	56	1"	39'-6"
V15	74	3/8"	3'-0"

Class-X Concrete Cu. Yds. 170.8
Reinforcement Bars Lbs. 21,110
1/2" Metal Shell Piles Lin. Ft. 122.4
Class A Exc. for Structures Cu. Yds. 145

Indicates 24-ton 47 cu. ft. Metal Shell Piles
piles 36' long.
No Taper Piles
Est. Length 34'-0"



STANDARD	COMPUTED	W. E. Hanson	EXAMINED	W. E. Hanson
	CHECKED	W. E. Hanson	PASSED	W. E. Hanson
	DRAWN	W. E. Hanson		
	CHECKED	W. E. Hanson		
SPECIAL	APPROVED	W. E. Hanson		
	CHECKED	W. E. Hanson		

PIER 3
GRADE SEPARATION
MISSOURI PACIFIC R. R.
NORTH OF DUPO
I.A. ROUTE 4 - 3/4 MILE
ST. CLAIR COUNTY



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
...123-0876882-exist-bridge-plans-23.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

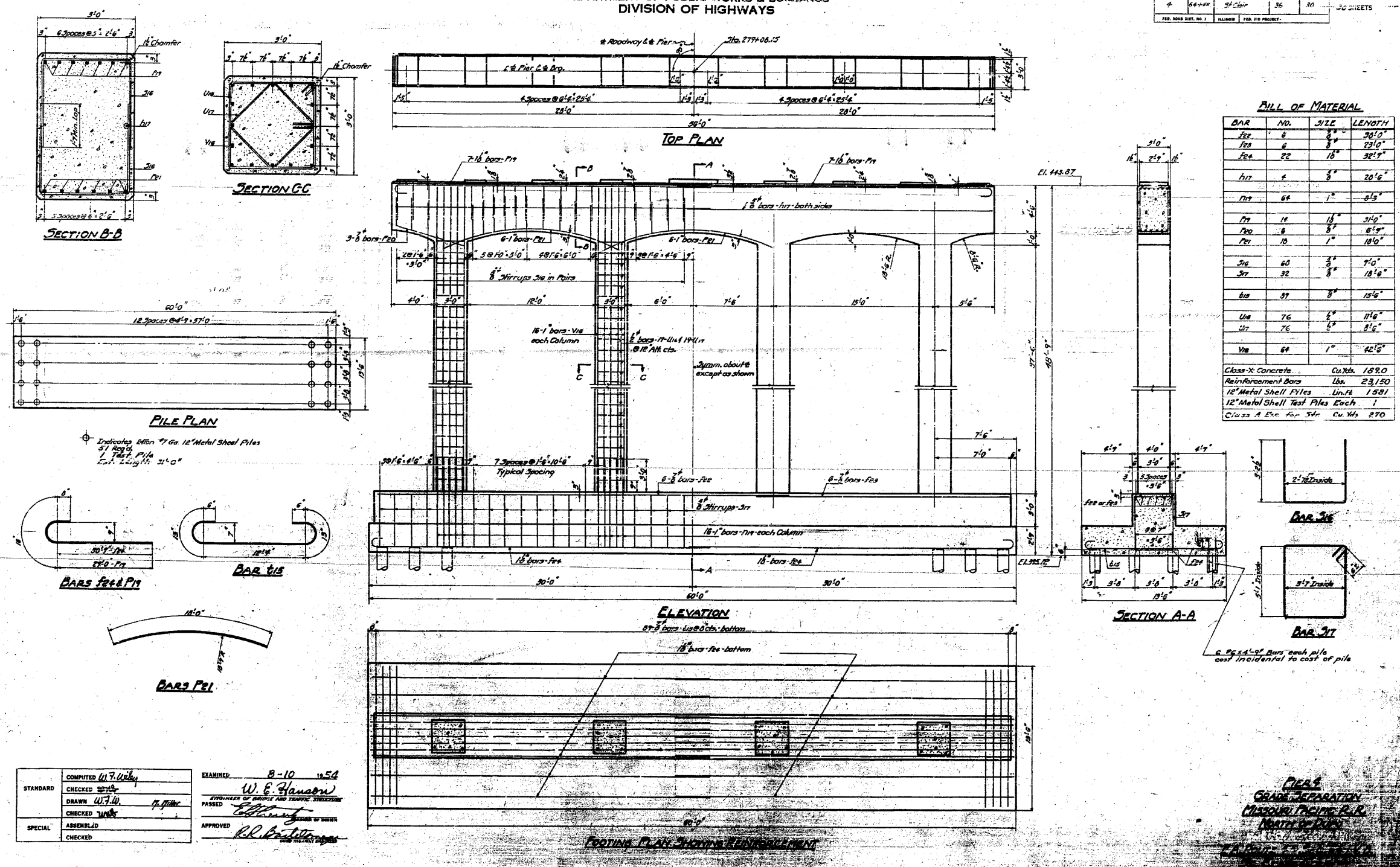
SN 082-0030 PLANS
(ORIGINAL PLANS)

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	123
				CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT				

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

ROAD DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	64-IVBR	ST. CLAIR	36	30
SHEET NO. 24				
30 SHEETS				

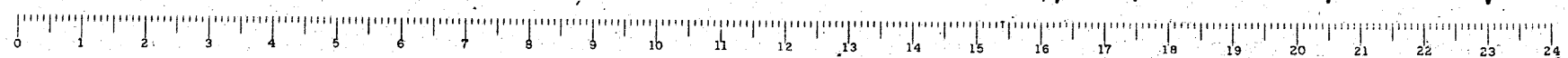


FULL OF MATERIAL

BAR	NO.	SIZE	LENGTH
FE2	8	3/4"	30'-0"
FE3	6	3/4"	29'-0"
FE4	22	1/2"	32'-9"
HT	4	3/8"	20'-6"
HT	68	1"	8'-9"
HT	14	1/2"	3'-0"
HT	6	3/8"	6'-9"
HT	10	1"	18'-0"
HT	60	3/8"	9'-0"
HT	32	3/8"	18'-6"
HT	39	3/8"	15'-6"
HT	76	1/2"	11'-6"
HT	76	1/2"	8'-6"
HT	68	1"	42'-0"

Class X Concrete Cu. Yds. 189.0
Reinforcement Bars Lbs. 23,150
12" Metal Shell Piles Lin. Ft. 1,581
12" Metal Shell Test Piles Each 1
Class A Exc. for 540 Cu. Yds. 270

STANDARD	COMPUTED <i>W.F. Kelly</i>	EXAMINED <i>B-10 1854</i>
	CHECKED <i>W.F. Kelly</i>	DESIGNED <i>W.E. Hanson</i>
	DRAWN <i>W.F. Kelly</i>	ENGINEER OF BRIDGE AND TRUSS STRUCTURES
	CHECKED <i>W.F. Kelly</i>	PASSED <i>Edmund</i>
SPECIAL	ASSEMBLED	APPROVED <i>R.L. Kelly</i>
	CHECKED	



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
...124-D876882-exist-bridge-plans-24.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.000000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 6/5/2010	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(ORIGINAL PLANS)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

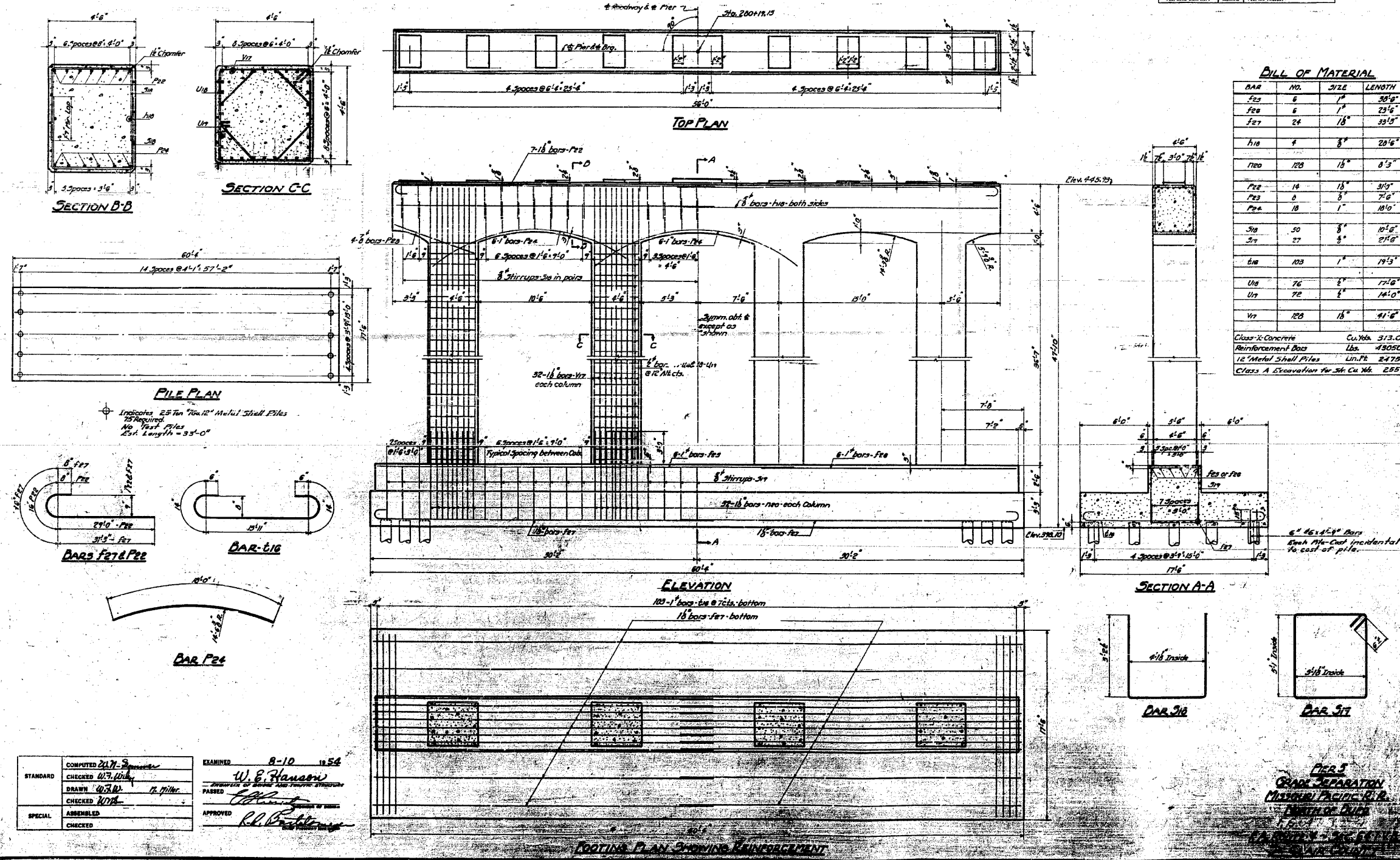
CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	124
CONTRACT NO. 76882				

ILLINOIS FED. AID PROJECT

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

BOOK SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET TITLE
4	64-1VBR	ST. CLAIR	36	25	3RD SWELLS
PER. ROAD DIST. NO. 7 ILLINOIS PER. AID PROJECT					



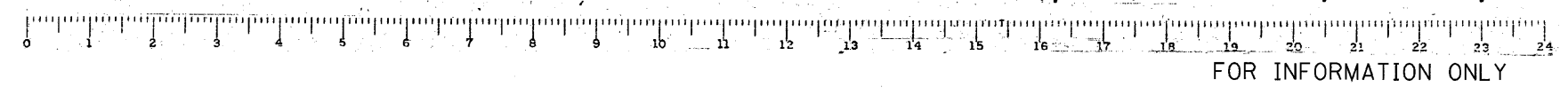
BILL OF MATERIAL

BAR NO.	NO.	SIZE	LENGTH
FE3	6	7"	30'-0"
FE8	6	7"	23'-6"
FE7	24	18"	33'-5"
HI6	4	8"	20'-6"
HE0	120	16"	0'-3"
FE2	14	18"	3'-5"
FE3	8	8"	7'-0"
FE4	18	7"	18'-0"
SI8	50	8"	10'-0"
SI7	27	8"	27'-0"
EN8	108	7"	19'-3"
UI8	76	8"	17'-0"
UI7	72	8"	14'-0"
VI7	120	16"	41'-0"

Class II Concrete Cu. Yds. 313.0
 Reinforcement Bars Lbs. 45050
 12" Metal Shell Piles Lin. Ft. 2475
 Class A Excavation for St. Cl. No. 255

COMPUTED	BY W. B. Hanson
CHECKED	BY W. B. Hanson
DRAWN	BY W. B. Hanson
CHECKED	BY W. B. Hanson
SPECIAL	ASSEMBLED
CHECKED	

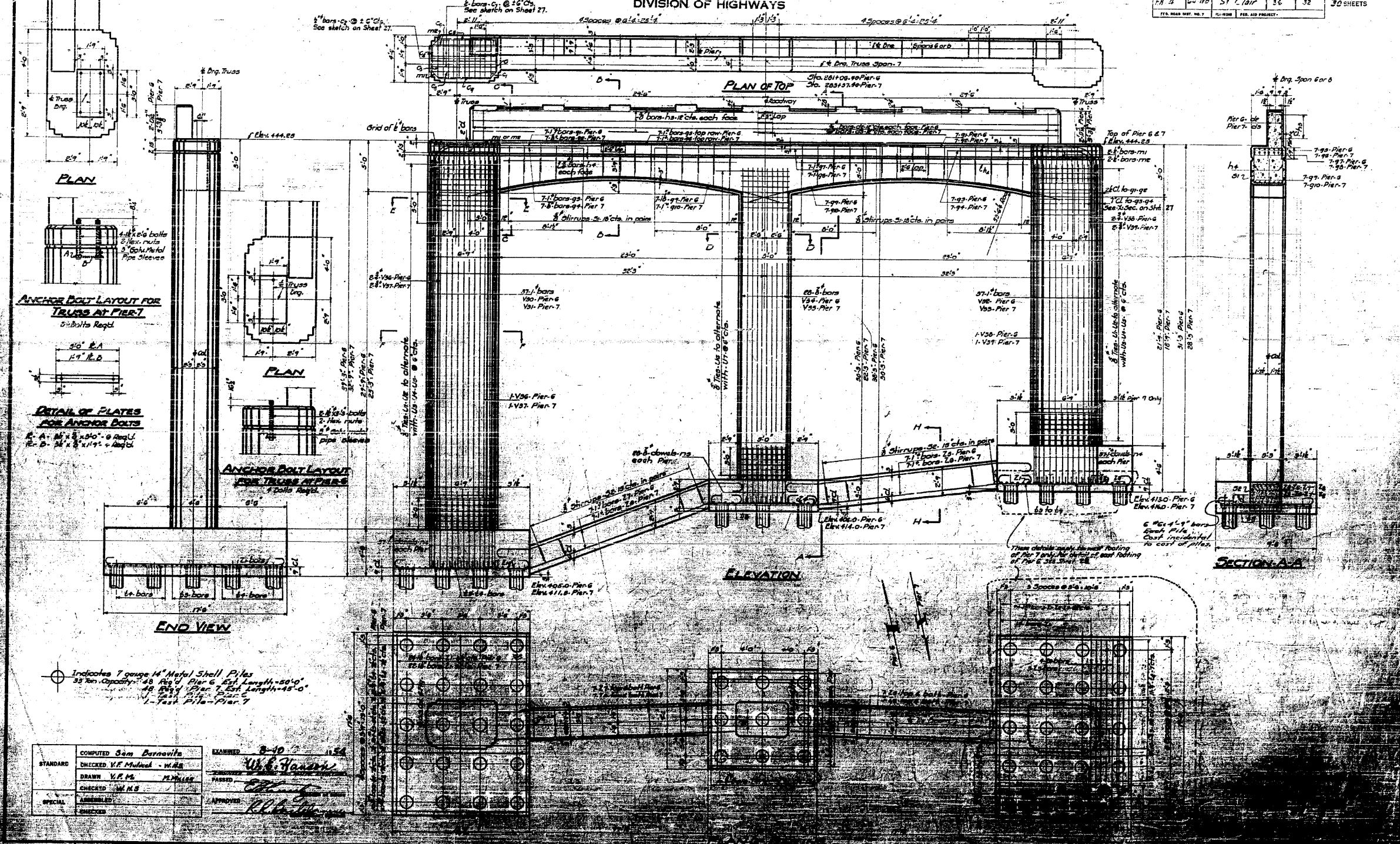
EXAMINED 8-10 1854
 W. B. Hanson
 DIVISION OF PUBLIC WORKS & BUILDINGS
 PASSED
 APPROVED
 R. L. [Signature]



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

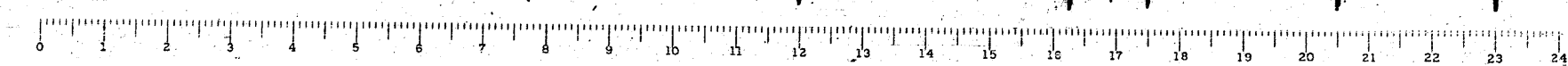
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64 IVB	St. Clair	56	32	26

30 SHEETS



Indicates 7 gauge 14" Metal Shell Piles
32 ton capacity - 48 ft. Pier 6, 52 ft. length - 50' 0"
48 ft. Pier 7, Est. length - 45' 0"
1 - Test Pile - Pier 7

COMPUTED	Sam Bernavits	EXAMINED	8-10-1954
CHECKED	V.F. M... - H.M.B.	APPROVED	W.B. Hansen
DRAWN	V.F. M...	PASSED	
CHECKED	H.M.B.		
ASSEMBLED			
CHECKED			



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
...N126-DB76882-exist-bridge-plans-26.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(ORIGINAL PLANS)

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	126

CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT

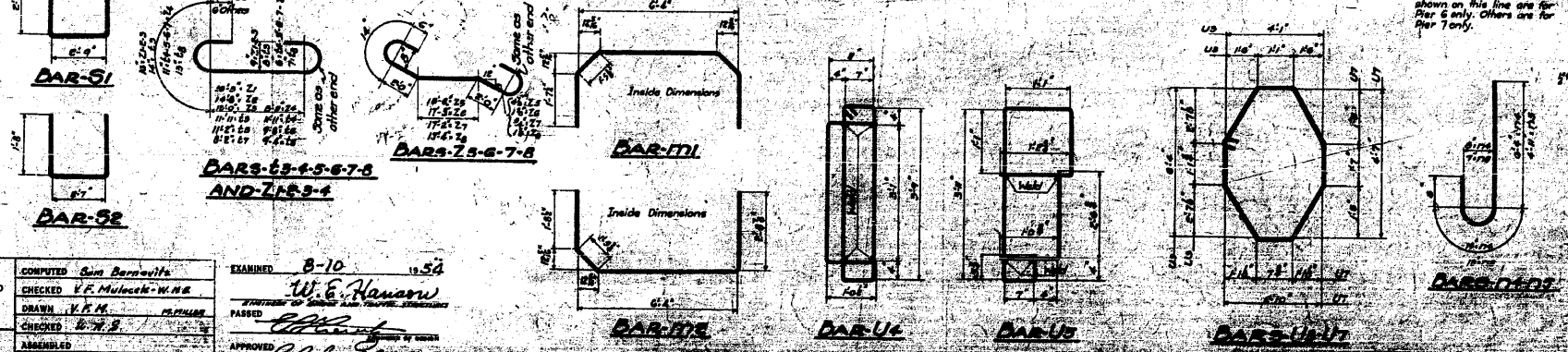
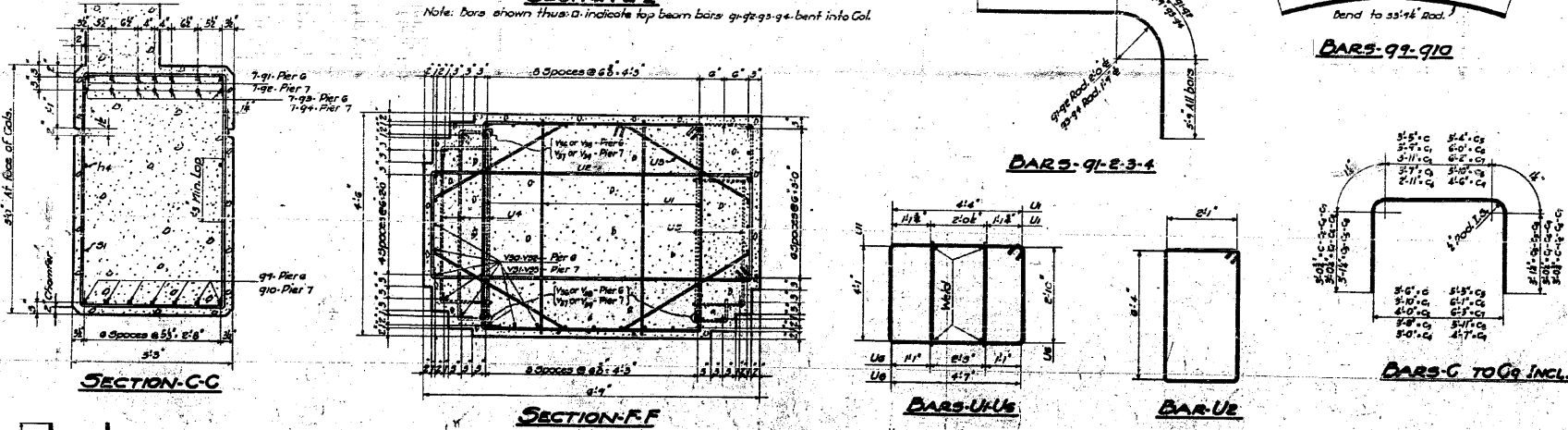
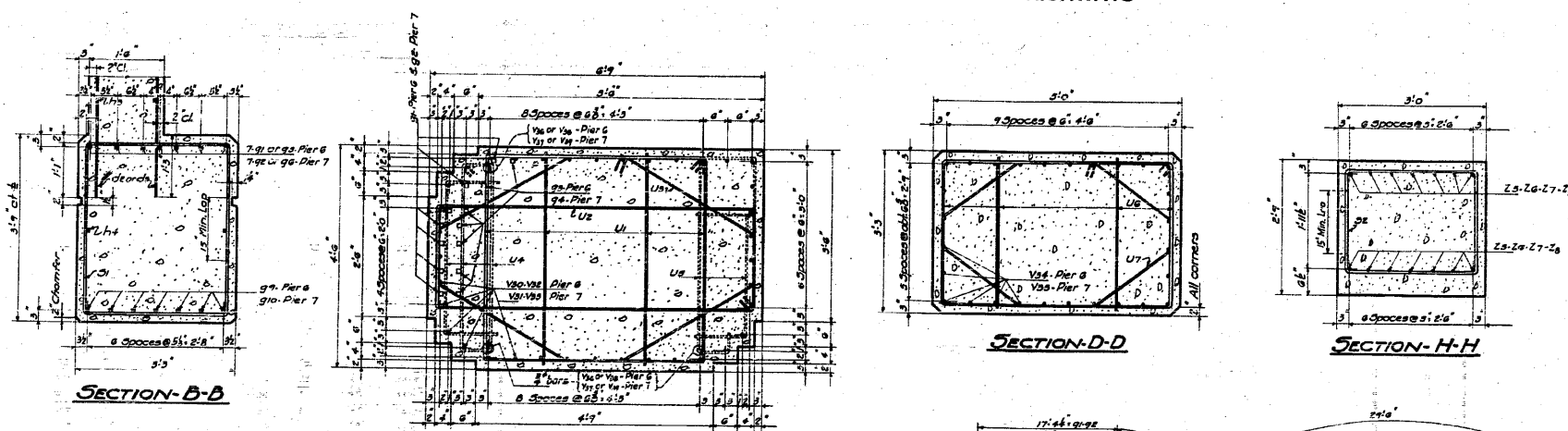
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROAD DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171-A	64-1VBR	St. Clair	36	31

SHEET NO. 27
30 SHEETS

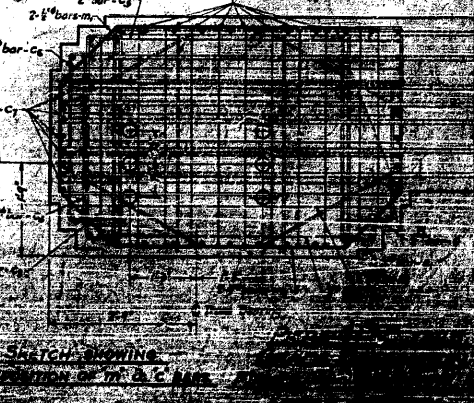
BILL OF MATERIAL-PIERS 667

BAR NO.	SIZE	LENGTH	BAR NO.	SIZE	LENGTH
23	1"	12'5"	222	1"	12'5"
24	3/8"	14'0"	223	5/8"	14'0"
25	1/2"	14'0"	224	10	14'0"
26	2"	12'0"	225	4	12'0"
27	2"	11'0"	226	4	10'5"
28	2"	12'0"	227	5	8'0"
29	4"	9'9"	U1	107	8'
30	4"	10'0"	U2	107	8'
31	3/8"	10'5"	U3	103	8'
32	4"	10'0"	U4	103	8'
33	4"	9'5"	U5	103	8'
34	4"	11'9"	U6	58	8'
35	1/4"	3'0"	U7	96	8'
36	1/4"	4'6"			
37	1/4"	29'5"	Y20	37	1"
38	1/4"	29'5"	V21	37	1"
39	1/4"	21'0"	V22	37	1"
40	1/4"	21'0"	V23	37	1"
41	1/4"	30'0"	V24	26	3/8"
42	1/4"	30'0"	V25	26	3/8"
43	1/4"	21'0"	V26	3	3/8"
44	1/4"	27'0"	V27	3	3/8"
45	1/4"	27'0"	V28	3	3/8"
46	1/4"	27'0"	V29	3	3/8"
47	1/4"	20'0"	Z1	63	1/8"
48	1/4"	20'0"	Z2	4	1/8"
49	1/4"	10'6"	Z3	3	1/8"
50	1/4"	11'5"	Z4	34	3/8"
51	1/4"	8'0"	Z5	16	1"
52	3/8"	6'6"	Z6	14	1"
53	1/2"	8'9"	Z7	14	1"
54	1/2"	6'0"	Z8	16	1"
55	1/2"	22'5"	Z9	16	1"
56	1/2"	12'0"	Z10	5	1/8"
57	1/2"	12'0"	Z11	5	1/8"
58	1/2"	10'9"	Z12	4	1/8"
59	1/2"	7'9"	Z13	3	1/8"
60	1/2"	7'6"	Z14	3	1/8"

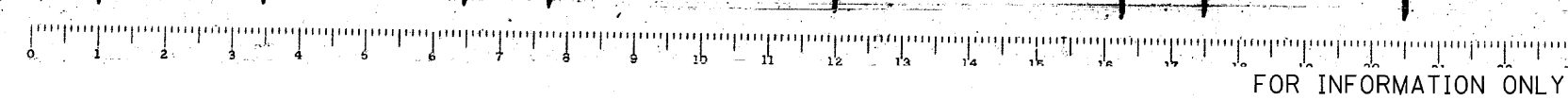


Class-X-Concrete Reinforcement Bars
1A Metal Shell Piles
1A Metal Shell Test Piles
Class A Excavation

Class-X-Concrete Reinforcement Bars
Pier-6
Pier-7



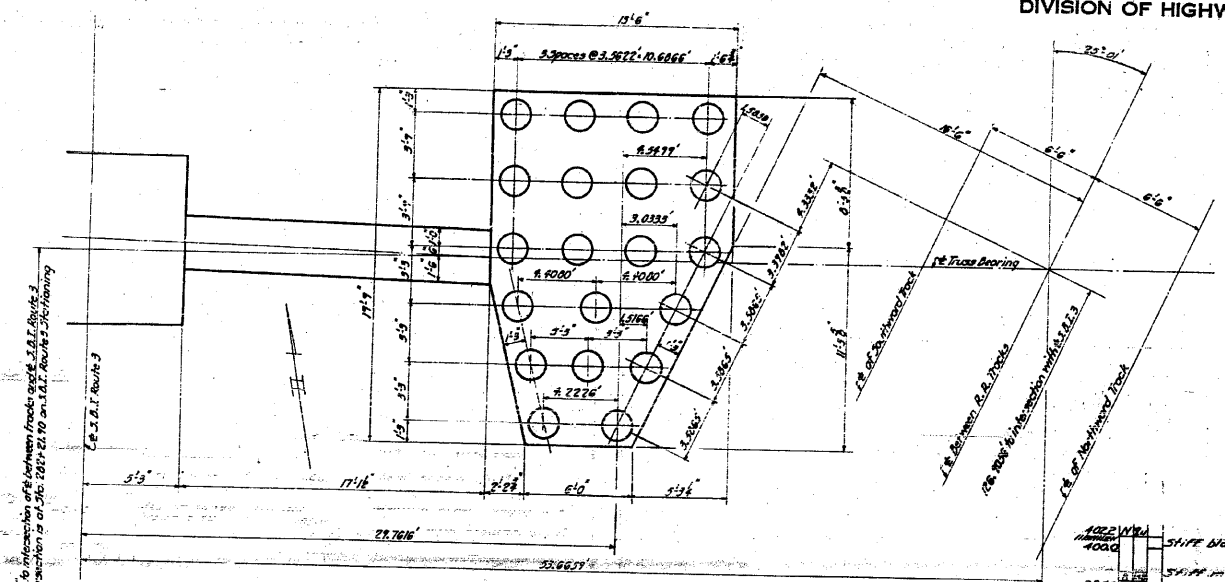
COMPUTED	Sam Bernaschi	EXAMINED	B-10	1954
CHECKED	V.F. Mulcahy - W.N.R.	DRAWN	W.E. Hanson	
CHECKED	V.F.M.	CHECKED		
CHECKED	B.W.S.	APPROVED	R.L. Henderson	



CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

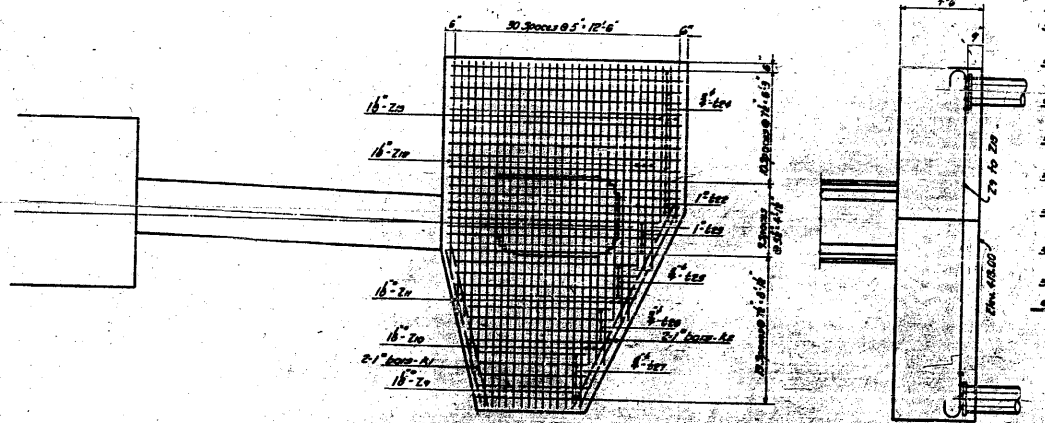
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

BORING NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
4	64-IVB	St. Clair	36	36
SHEET NO. 28 30 SHEETS				

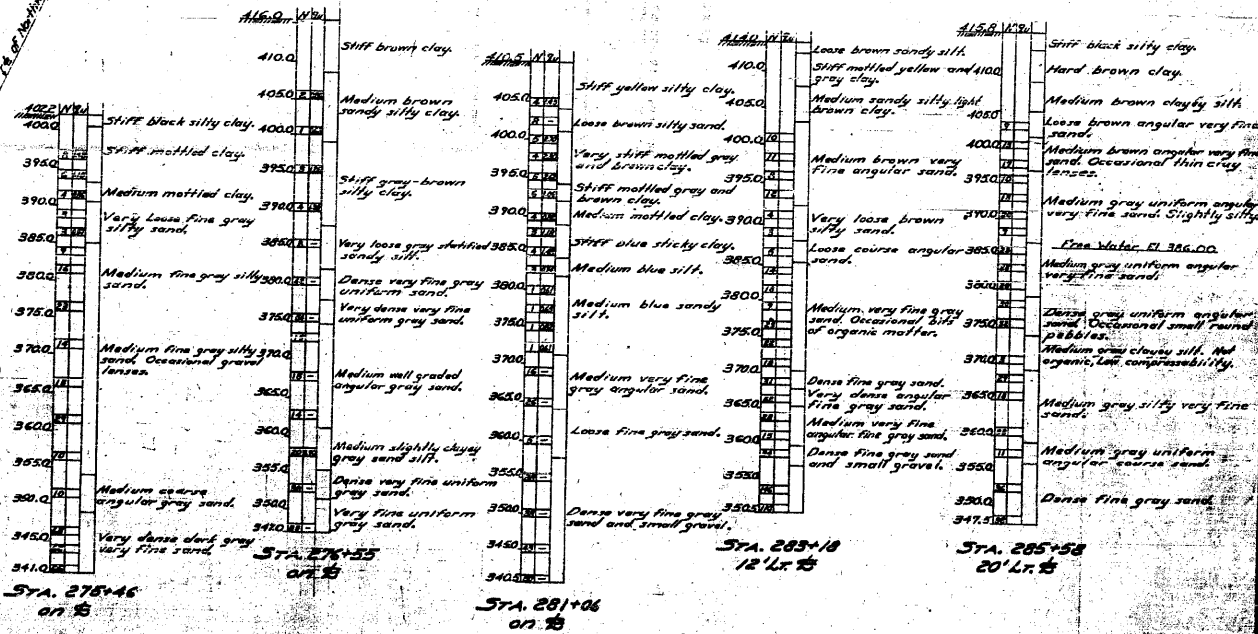


PLAN OF EAST FOOTING OF PIER 6 SHOWING LOCATION OF PILES

○ Indicates 33 Ton capacity #7 Ga. 14" Metal Shell Piles - 261' Length - 50'-0"



PLAN OF EAST FOOTING OF PIER 6 SHOWING REINFORCEMENT IN BOTTOM



BORING DATA

Note: Borings from logs made in 1954
N = No. of Blows per Ft.
qu = Unconfined compressive strength Tons per Sq. Ft.

STANDARD	COMPUTED <i>W. J. W.</i>	EXAMINED	8-10 1954
	CHECKED <i>W. J. W.</i>	DRAWN	<i>W. E. Hansen</i>
	DRAWN <i>W. J. W.</i>	CHECKED	<i>W. J. W.</i>
	CHECKED <i>W. J. W.</i>	APPROVED	<i>W. J. W.</i>
SPECIAL	ASSEMBLED		
	CHECKED		



BAR	SZ	LENGTH	A	B	C	L
1#	1"	10'	0"	0"	0"	0"
2#	1"	10'	0"	0"	0"	0"
3#	1"	10'	0"	0"	0"	0"
4#	1"	10'	0"	0"	0"	0"
5#	1"	10'	0"	0"	0"	0"
6#	1"	10'	0"	0"	0"	0"
7#	1"	10'	0"	0"	0"	0"
8#	1"	10'	0"	0"	0"	0"
9#	1"	10'	0"	0"	0"	0"
10#	1"	10'	0"	0"	0"	0"
11#	1"	10'	0"	0"	0"	0"
12#	1"	10'	0"	0"	0"	0"

DETAIL PIER 6
CONSTRUCTION
1/2" = 1'-0"

FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
...128-DB76882-exist-bridge-plans-28.dgn		DRAWN -	REVISED -
	PLOT SCALE = 48,000,000 / IN.	CHECKED -	REVISED -
CB JOB NO 09021	PLOT DATE = 8/5/2010	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

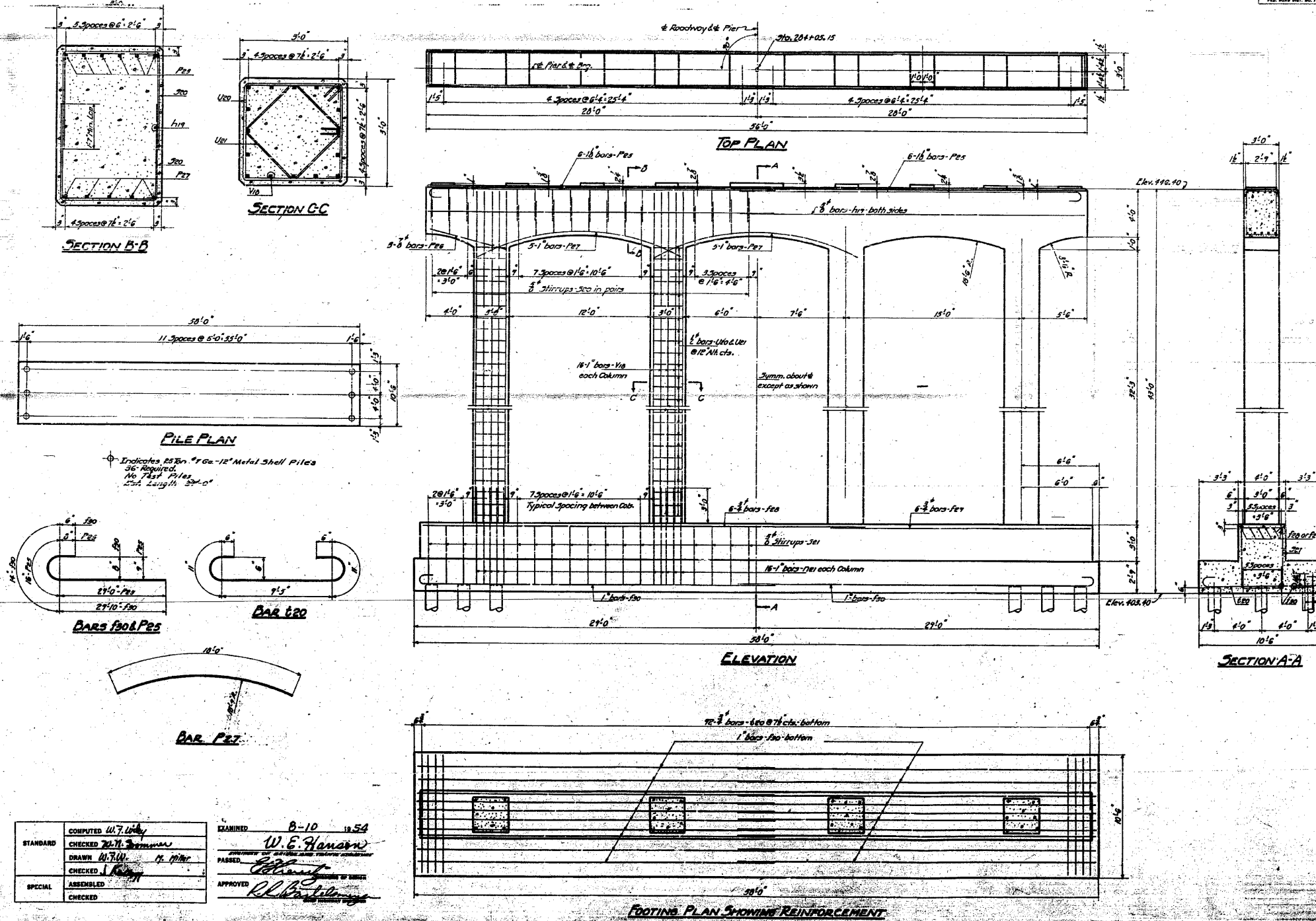
SN 082-0030 PLANS
(ORIGINAL PLANS)
SCALE: SHEET NO. OF SHEETS STA. TO STA.

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	128
ILLINOIS FED. AID PROJECT				CONTRACT NO. 76882

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

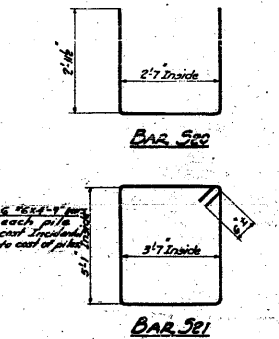
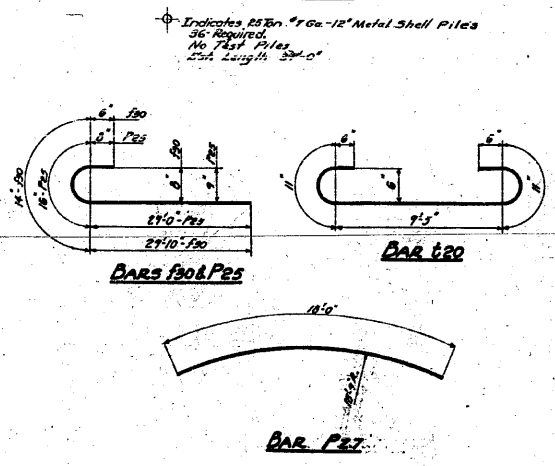
DATE	6-1-18	SHEET NO.	36	35	SHEET NO. 29
PROJECT	64-1VBR	COUNTY	ST. CLAIR	30 SHEETS	
DESIGNER	W. E. Hanson	DATE	8-10-54		



BILL OF MATERIAL

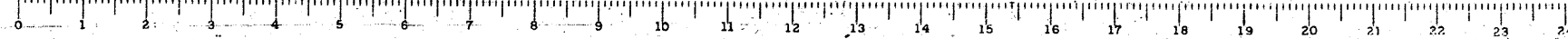
BAR	NUMBER	SIZE	LENGTH
22a	6	3/4"	37'-0"
22b	6	3/4"	22'-0"
22c	20	1"	31'-6"
22d	4	3/4"	20'-6"
22e	64	1"	2'-9"
22f	12	1 1/2"	31'-0"
22g	6	3/4"	6'-6"
22h	15	1"	18'-0"
22i	60	3/4"	8'-6"
22j	30	3/4"	18'-6"
22k	92	3/4"	10'-9"
22l	60	1/2"	11'-6"
22m	64	1/2"	8'-6"
22n	64	1"	36'-9"

Class-X Concrete Cu. Yds. 137.7
 Reinforcement Bars Lbs. 10070
 1/2" Metal Shell Piles Lin. Ft. 1224
 Class A Exc. for Str. Cu. Yds. 230



COMPUTED	W. E. Hanson	EXAMINED	W. E. Hanson
CHECKED	W. E. Hanson	PASSED	W. E. Hanson
DRAWN	W. E. Hanson	APPROVED	W. E. Hanson
ASSEMBLED	W. E. Hanson		
SPECIAL			
CHECKED			

FIELD
 CRACK SEPARATION
 MISSOURI PACIFIC R.R.
 NORTH OF DUPO
 ILL. ROUTE 15300 64-1VBR
 ST. CLAIR COUNTY



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
...\\29-0876882-exist-bridge-plans-29.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(ORIGINAL PLANS)
SCALE: SHEET NO. OF SHEETS STA. TO STA.

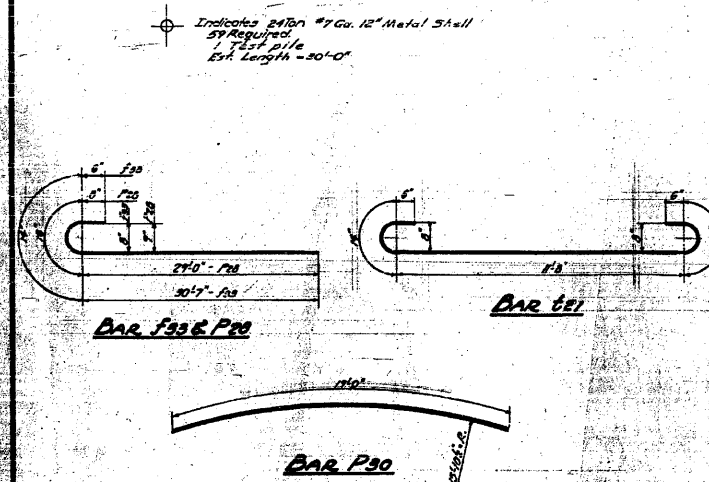
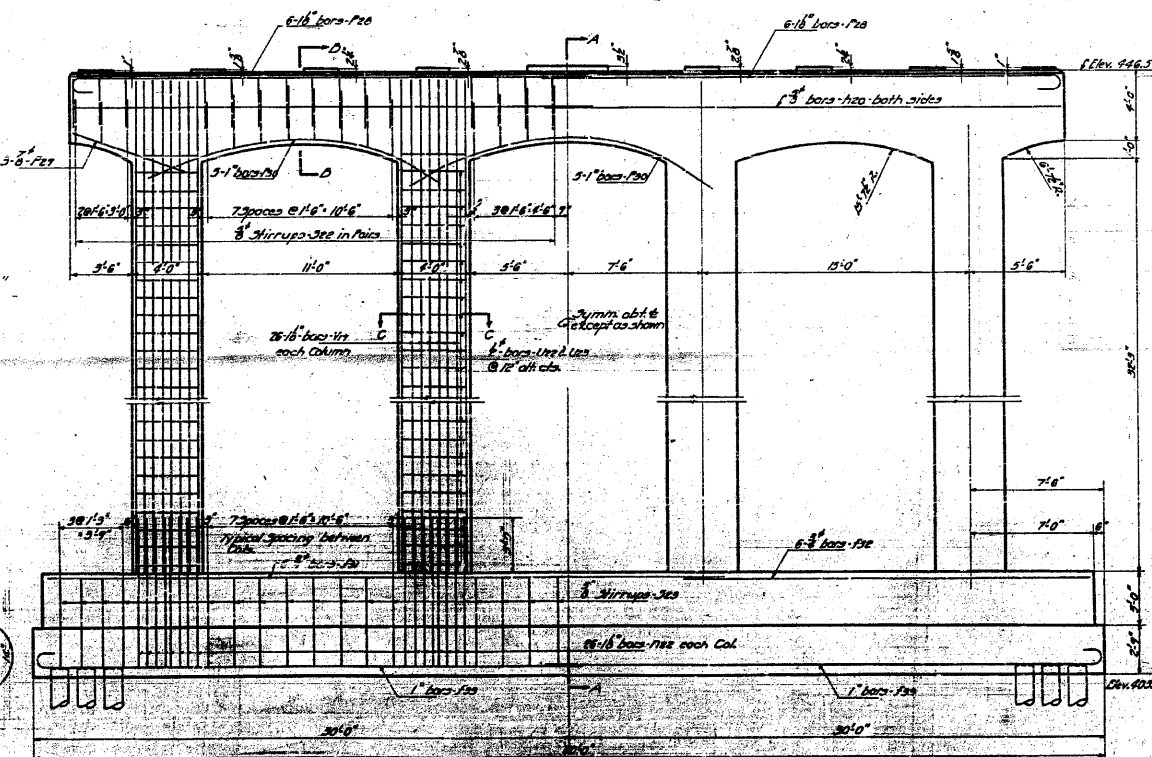
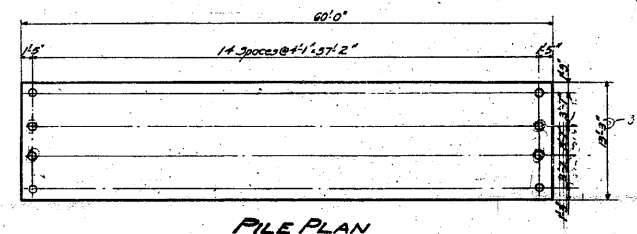
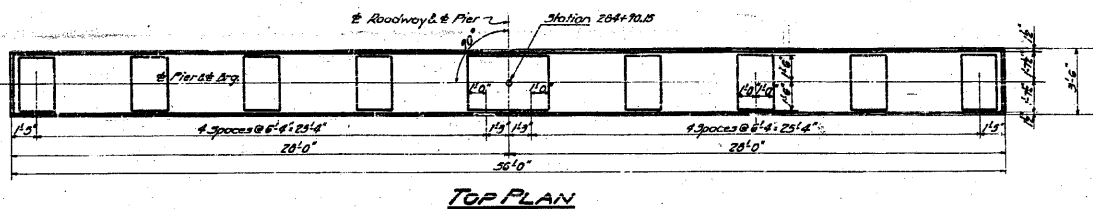
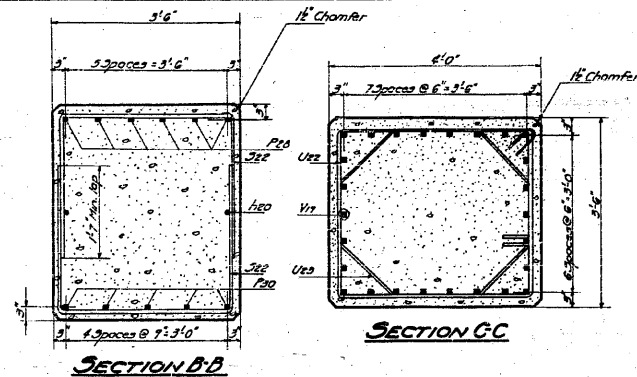
CB Coombe-Bloxdorf P.C.
 - CIVIL ENGINEERS -
 - STRUCTURAL ENGINEERS -
 - LAND SURVEYORS -
 Design Firm License No. 184-002703

F.A.P. RTEL	SECTION	COUNTY	TOTAL SHEETS	NO.
312	64-1VBR	ST. CLAIR	259	129
			CONTRACT NO. 76882	

ILLINOIS FED. AID PROJECT

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

SECTION	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	64-1VB	St. Clair	36	36
SHEET NO. 30				
30 SHEETS				

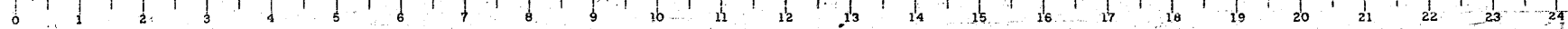


BILL OF MATERIAL

BAR	NUMBER	SIZE	LENGTH
F31	6	3"	30'-0"
F32	6	3"	23'-0"
F33	22	1"	36'-0"
F34	2	3"	26'-0"
F35	104	18"	8'-0"
F36	12	18"	3'-0"
F37	6	8"	7'-0"
F38	15	1"	17'-0"
F39	60	3"	9'-0"
F40	32	3"	14'-6"
F41	80	1"	15'-0"
F42	60	6"	14'-6"
F43	64	2"	12'-0"
F44	104	18"	36'-0"

Class X Concrete Cu. Yds. 209.8
Reinforcement Bars Lbs. 34460
12" Metal Shell Piles Lm. Ft. 1770
12" Metal Shell Test Pile Emb. 1'
Class A Exc. for 51r Cu. Yds. 400

COMPUTED	W. J. York	EXAMINED	8-10-54
CHECKED	W. E. Hanson	DRAWN	W. E. Hanson
DRAWN	W. E. Hanson	CHECKED	W. E. Hanson
CHECKED	W. E. Hanson	APPROVED	W. E. Hanson
SPECIAL	AMENDED	CHECKED	W. E. Hanson



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
...130-0876882-exist-bridge-plans-38.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(ORIGINAL PLANS)
SCALE: SHEET NO. OF SHEETS STA. TO STA.

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	NO.
312	64-1VBR	ST. CLAIR	259	130
			CONTRACT NO. 76882	

ILLINOIS FED. AID PROJECT

Bench Mark: #1 checked in S.E. corner of bridge 26' Lt. of Sta. 285+58 @ F.A. Rt. 14.
Elevation 450.52.

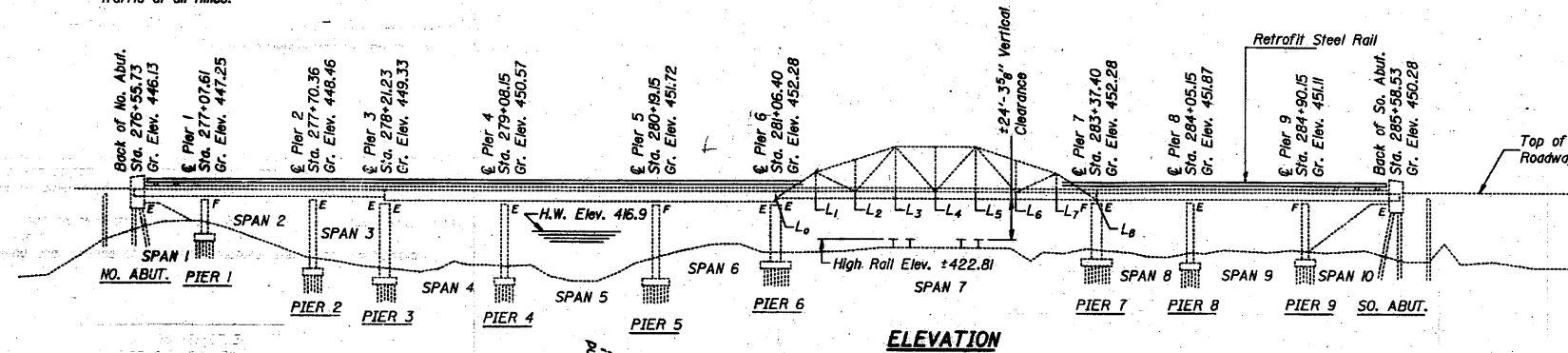
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
SN 082-0030	64-1VBR	23	5
ST. CLAIR			18 SHEETS

Existing Structure: #082-0030 Built 1954 as F.A. Rt. 4 Sec. 4-1-VB,D,E & F Sta. 281+07.13
902'-9 1/2" long x 56'-4" out to out. The Existing Structure consists of one 3 span continuous WF Beam Unit, one 3 span continuous G Girder Unit, one 8 panel truss and one 3 span continuous WF Beam Unit. The existing substructure consists of pile bent abutments with 4 column piers for approaches and 3 column piers for truss. The existing concrete deck on the truss span shall be replaced and the existing deck on the approach spans shall be repaired by partial removal and PDC Overlay. New expansion joints shall be installed and new retrofit rail shall be installed utilizing stage construction to maintain two-way traffic at all times.

GENERAL NOTES

All new structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. Expansion joint angles and attached bars shall be shop painted with one coat of red lead primer and a final coat of aluminum paint.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
Field welding of construction accessories will not be permitted to any part of the truss, the bottom flanges and webs of floor beams and stringers. Field welding in other areas will be permitted only when approved by the Engineer.
Fasteners shall be high strength bolts. Bolts 3/4", open holes 9/16", unless otherwise noted.
For cleaning and painting of existing structural steel, see the Special Provisions.



ELEVATION

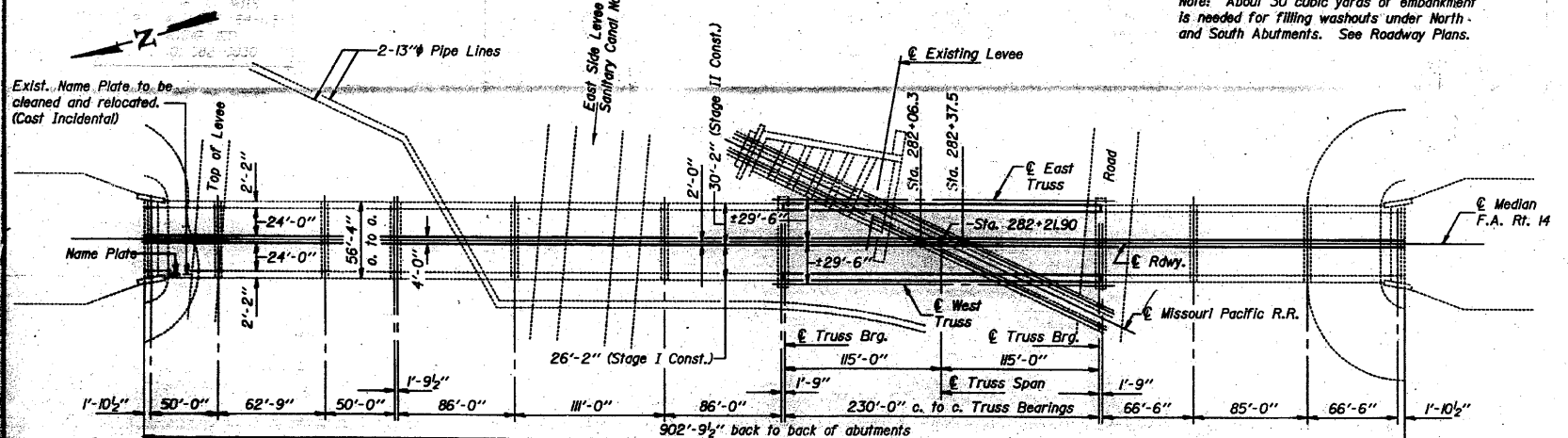
Note: About 30 cubic yards of embankment is needed for filling washouts under North and South Abutments. See Roadway Plans.

STATION 281+07.13
REBUILT BY
STATE OF ILLINOIS
F.A. RT. 14 SEC. 64-NBI
LOADING H20
STR. NO. 082-0030

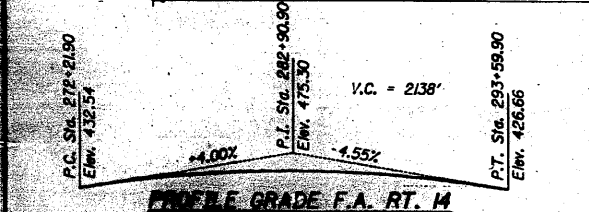
NAME PLATE
(See Std. 2113)

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Removal of Existing Concrete Deck	L. Sum	1		1
Concrete Removal	Cu. Yd.	101.9	8.4	110.3
Protective Coat	Sq. Yd.	1483		1483
Class X Concrete	Cu. Yd.	451.9	8.4	460.3
Structural Steel	Lbs.	9150		9150
Cleaning and Painting Steel Bridge	L. Sum	1		1
Reinforcement Bars	Lbs.	15260		15260
Reinforcement Bars (Epoxy Coated)	Lbs.	88280		88280
Name Plates	Each	1		1
Deck Drains to be Adjusted	Each	10		10
Bituminous Concrete Surface Removal	Sq. Yd.	3513		3513
Steel Rail Retrofit	Lin. Ft.	1807		1807
Temporary Bridge Rail	Lin. Ft.	903		903
Concrete Bridge Deck Scarification	Sq. Yd.	3513		3513
Jack and Re-position Bearings	Each	10		10
Plasticized Bituminous Deck Concrete Overlay	Sq. Yd.	3513		3513
Deck Slab Repair-Full Depth	Sq. Yd.	173		173
Repair Concrete Structures	Sq. Ft.		165	165
Neoprene Expansion Joint 2"	Lin. Ft.	58		58
Neoprene Expansion Joint 4"	Lin. Ft.	116		116
Bridge Slab Repair-Partial Depth	Sq. Ft.	675		675
Handrail Removal	Lin. Ft.	1782		1782
Prefabricated Joint Seal 2 1/2"	Lin. Ft.	116		116
Temporary Support System	L. Sum	1		1
Deck Slab Repair-Partial Depth	Sq. Yd.	100		100



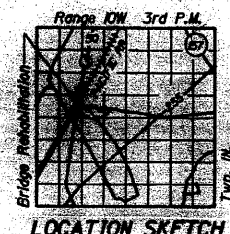
PLAN



PROFILE GRADE F.A. RT. 14
(Along E. Roadway)

DESIGN STRESSES

FIELD UNITS
f'c = 3500 psi
fy = 60000 psi (Reinforcement)
fs = 20000 psi (AASHTO M83 Structural Steel)
LOADING HS20
(New Construction)
Design Specifications: AASHTO 1983



LOCATION SKETCH

GENERAL PLAN
OVER PRAIRIE DUPONT CANAL
& MO PAC RAILROAD
F.A. RT. 14 (ILL. RT. 3) SEC. 64-NBI
ST. CLAIR COUNTY
STA. 281+07.13

Revised 4-5-85 D.A.B.

FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 082-0030 PLANS (REHABILITATION PLANS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...131-087682-exist-bridge-repair-plans.dgn		DRAWN -	REVISED -			312	64-1VBR	ST. CLAIR	259	131
PLOT SCALE = 48.000000' / IN.		CHECKED -	REVISED -							CONTRACT NO. 76882
PLOT DATE = 8/5/2018		DATE - / /	REVISED -							(ILLINOIS) FED. AID PROJECT

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

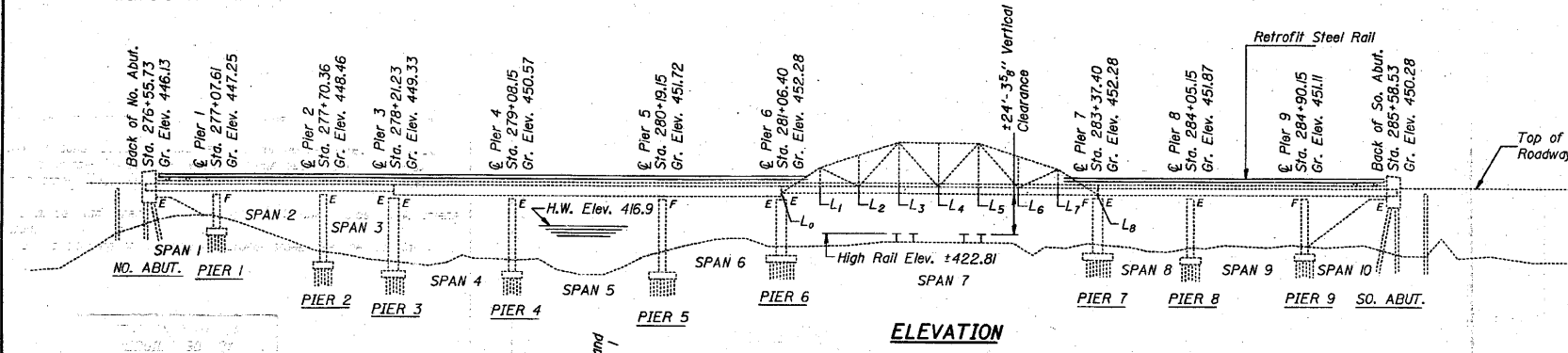
PROJECT NO.	SECTION	COUNTY	SHEET	SHEET NO.
082-0030	64-1VBR	ST. CLAIR	23	5a
				18 SHEETS

Bench Mark: #1 chiseled in S.E. corner of bridge 26' Lt. of Sta. 285+58 @ F.A. Rt. 14.
Elevation 450.52.

Existing Structure: #082-0030 Built 1954 as F.A. Rt. 4 Sec. 4-1-VB,D,E & F Sta. 281+07.13
902'-9 1/2" long x 56'-4" out to out. The Existing Structure consists of one 3 span
continuous WF Beam Unit, one 3 span continuous @ Girder Unit, one 8 panel truss and
one 3 span continuous WF Beam Unit. The existing substructure consists of pile bent
abutments with 4 column piers for approaches and 3 column piers for truss. The existing
concrete deck on the truss span shall be replaced and the existing deck on the approach
spans shall be repaired by partial removal and PDC Overlay. New expansion joints shall be
installed and new retrofit rail shall be installed utilizing stage construction to maintain two-way
traffic at all times.

GENERAL NOTES

All new structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. Expansion joint angles and attached bars shall be shop painted with one coat of red lead primer and a final coat of aluminum paint.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
Field welding of construction accessories will not be permitted to any part of the truss, the bottom flanges and webs of floor beams and stringers. Field welding in other areas will be permitted only when approved by the Engineer.
Fasteners shall be high strength bolts. Bolts 3/4", open holes 3/8", unless otherwise noted.
For cleaning and painting of existing structural steel, see the Special Provisions.



ELEVATION

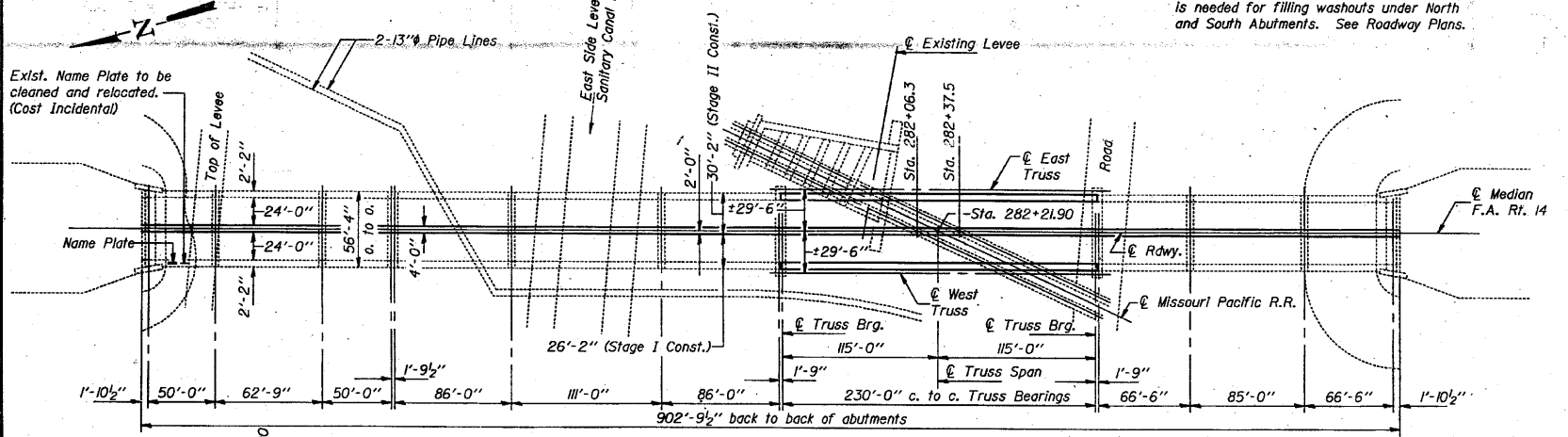
Note: About 30 cubic yards of embankment is needed for filling washouts under North and South Abutments. See Roadway Plans.

STATION 281+07.13
REBUILT 198 BY
STATE OF ILLINOIS
F.A. RT. 14 SEC. 64-1VBI
LOADING H20
STR. NO. 082-0030

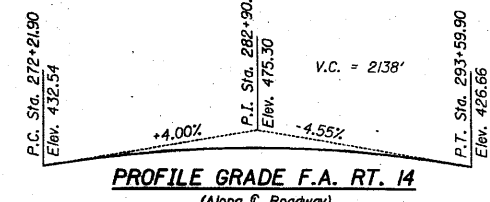
NAME PLATE
(See Std. 2113)

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Removal of Existing Concrete Deck	L. Sum	1		1
Concrete Removal	Cu. Yd.	101.9	(9.7)	111.6
Protective Coat	Sq. Yd.	1483		1483
Class X Concrete	Cu. Yd.	451.9	(9.7)	(251.6)
Structural Steel	Lbs.	9150		9150
Cleaning and Painting Steel Bridge	L. Sum	1		1
Reinforcement Bars	Lbs.	15260	(280)	(15340)
Reinforcement Bars (Epoxy Coated)	Lbs.	(10179)		(10179)
Name Plates	Each	1		1
Deck Drains to be Adjusted	Each	10		10
Bituminous Concrete Surface Removal	Sq. Yd.	3513		3513
Steel Rail Retrofit	Lin. Ft.	1807		1807
Temporary Bridge Rail	Lin. Ft.	903		903
Concrete Bridge Deck Scarification	Sq. Yd.	3513		3513
Jack and Reposition Bearings	Each	10		10
Plasticized Bridge Deck Concrete Overlay	Sq. Yd.	3513		3513
Deck Slab Repair-Full Depth	Sq. Yd.	173		173
Repair Concrete Structures	Sq. Ft.		165	165
Neoprene Expansion Joint 2"	Lin. Ft.	58		58
Neoprene Expansion Joint 4"	Lin. Ft.	(117)		(117)
Bridge Sidewalk-Repair-Partial Depth	Sq. Ft.	675		675
Handrail Removal	Lin. Ft.	178		178
Preformed Joint Seal 2 1/2"	Lin. Ft.	(117)		(117)
Temporary Support System	L. Sum	1		1
Deck Slab Repair-Partial Depth	Sq. Yd.	100		100
Jack and Reposition Bearings	Each		10	10



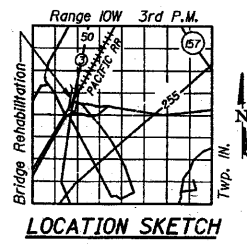
PLAN



PROFILE GRADE F.A. RT. 14
(Along @ Roadway)

DESIGN STRESSES

FIELD UNITS
f'c = 3500 psi
fy = 60000 psi (Reinforcement)
fs = 20000 psi (AASHTO M183 Structural Steel)
LOADING HS20
(New Construction)
Design Specifications: AASHTO 1983

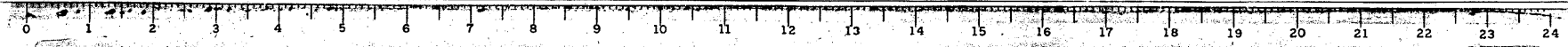


LOCATION SKETCH

GENERAL PLAN
OVER PRAIRIE DUPONT CANAL
& MO PAC RAILROAD
F.A. RT. 14 (ILL. RT. 3) SEC. 64-1VBI
ST. CLAIR COUNTY
STA. 281+07.13

DESIGNED: *James J. Robinson*
CHECKED: *David Dreyfus*
DRAWN: *R. Dofy*
CHECKED: *D.G.*
APPROVED: *James J. Robinson*
DIRECTOR OF HIGHWAYS

Revised 4-5-85 D.A.B.



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
...132-0876882-exist-bridge-repair-plans	22.dgn	DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - / /	REVISED -

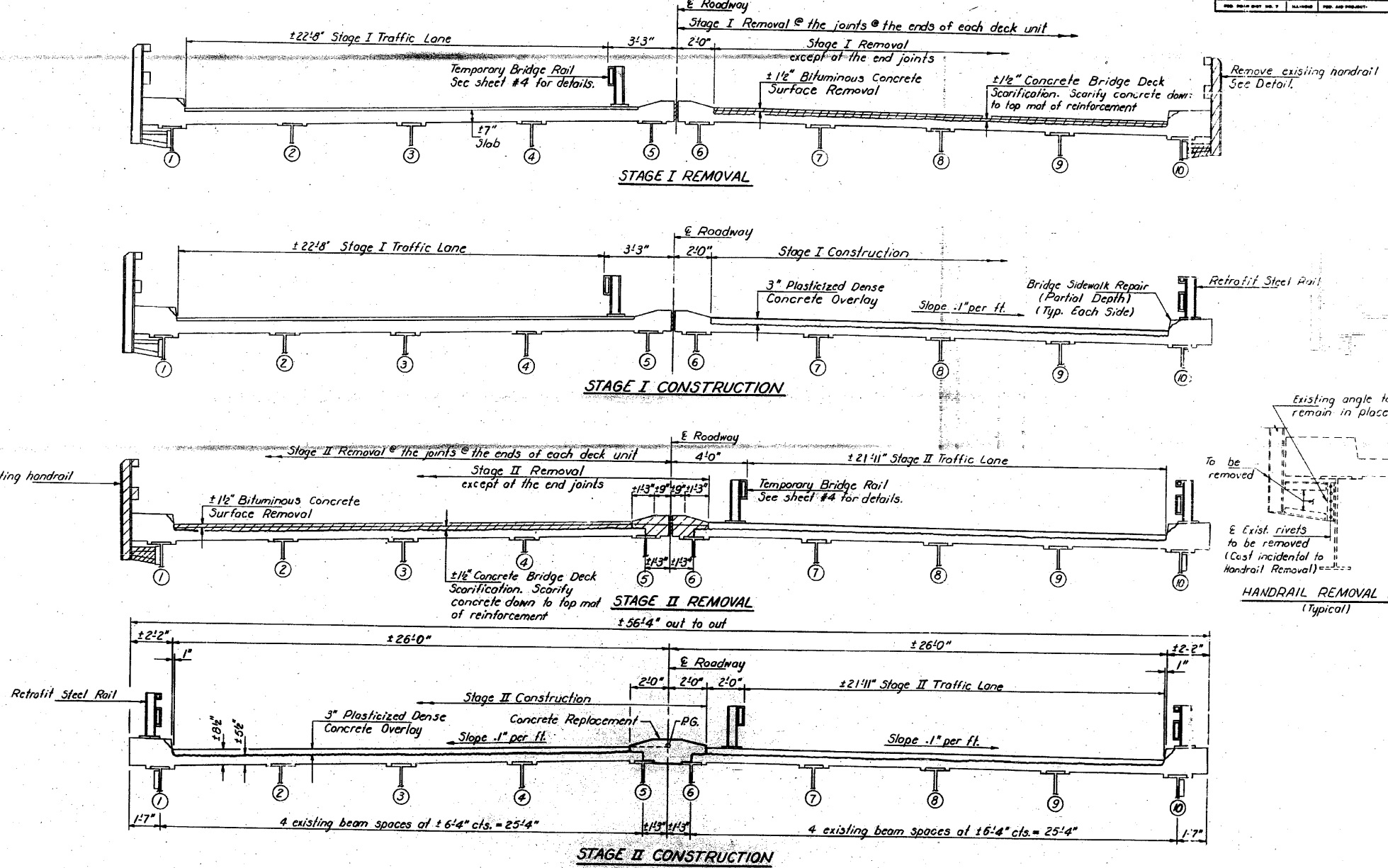
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(REHABILITATION PLANS)
SCALE: SHEET NO. OF SHEETS STA. TO STA.

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703
F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO.
312 64-1VBR ST. CLAIR 259 132
CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8-11-14	64-1VBR	ST. CLAIR	259	133



DESIGNED *V. Blum*
CHECKED *D. D. Dwyer*
DRAWN *R. Dely*
CHECKED *DG*

Feb 4 1995

Notes: All cross sections are looking South.
Hatched areas indicate removal areas.
For notes on Bridge Sidewalk Repair see sheet #3.
For deck patching locations see sheets #9, #10 & #11.
For Retrofit Steel Rail details see sheet #17.
For spacing see sheet #9.

STAGE CONSTRUCTION DETAILS
SPANS 1 THRU 6 AND 8 THRU 10
FA. RT. 14 SEC. 64-1VBI
ST. CLAIR COUNTY
STA. 281+Q7.13

FOR INFORMATION ONLY

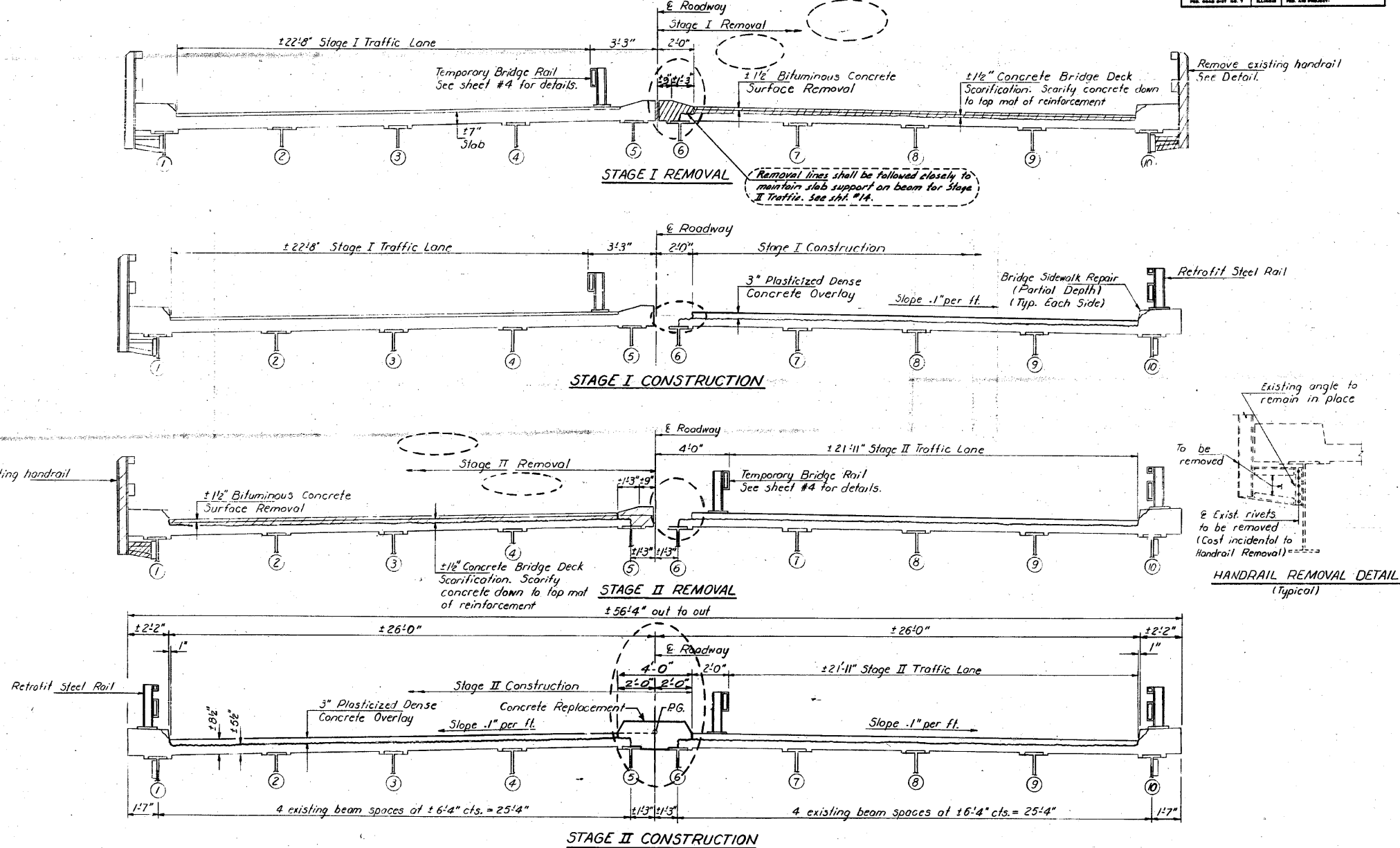
CB Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 082-0030 PLANS (REHABILITATION PLANS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...133-0876882-exist-bridge-repair-plans	33.dgn	DRAWN -	REVISED -			312	64-1VBR	ST. CLAIR	259	133	
PLOT SCALE = 40.000000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 76882		ILLINOIS FED. AID PROJECT			
CB JOB NO 09021	PLOT DATE = 8/5/2018	DATE - / /	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION	COUNT	TOTAL SHEETS	SHEET NO.
ST. CLAIR	23	60	20

SHEET NO. 20
18 SHEETS



DESIGNED *R. Doty*
 CHECKED *David H. Brown*
 DRAWN *R. Doty*
 CHECKED *D.S.*

Feb. 4, 1985
 EXAMINED *Thomas J. B...
 PASSED *Thomas J. B...
 APPROVED *Thomas J. B...
 DIRECTOR OF HIGHWAYS***

Notes: All cross sections are looking South.
 Hatched areas indicate removal areas.
 For notes on Bridge Sidewalk Repair see sheet #9.
 For deck patching locations see sheets #9, #10 & #11.
 For Retrofit Steel Rail details see sheet #17. For spacing see sheet #9.

STAGE CONSTRUCTION DETAILS
 SPANS 1 THRU 6 AND 8 THRU 10
 E.A. RT. 14 SEC. 64-1VBR
 ST. CLAIR COUNTY
 STA. 281+07.13

AS REVISED 3-28-86 R.E.A.



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
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PLOT SCALE = 40.000000' / IN.		CHECKED -	REVISED -
PLOT DATE = 8/5/2018		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(REHABILITATION PLANS)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

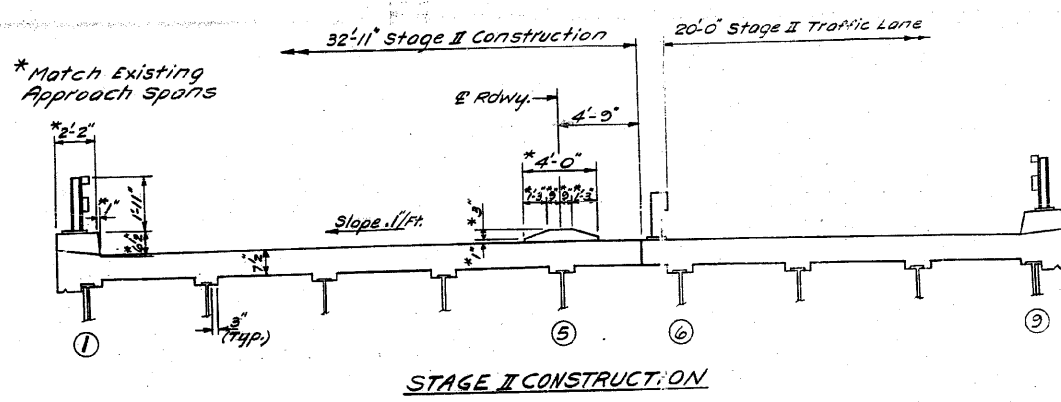
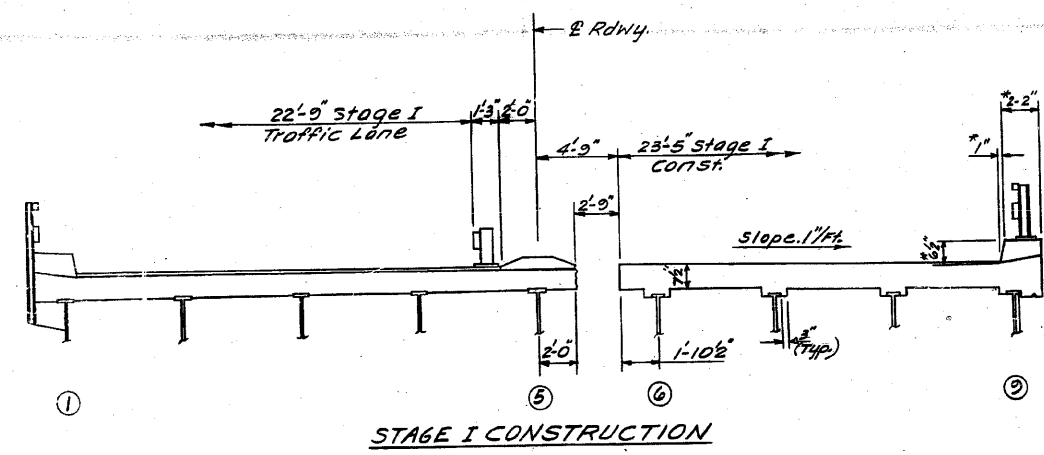
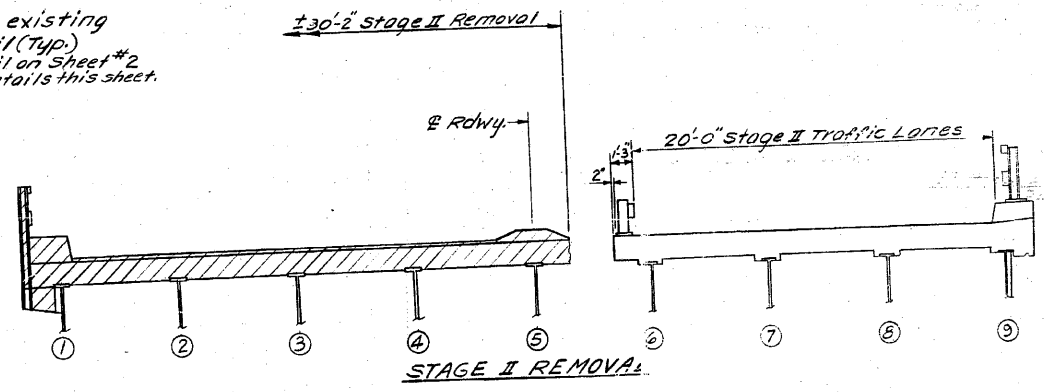
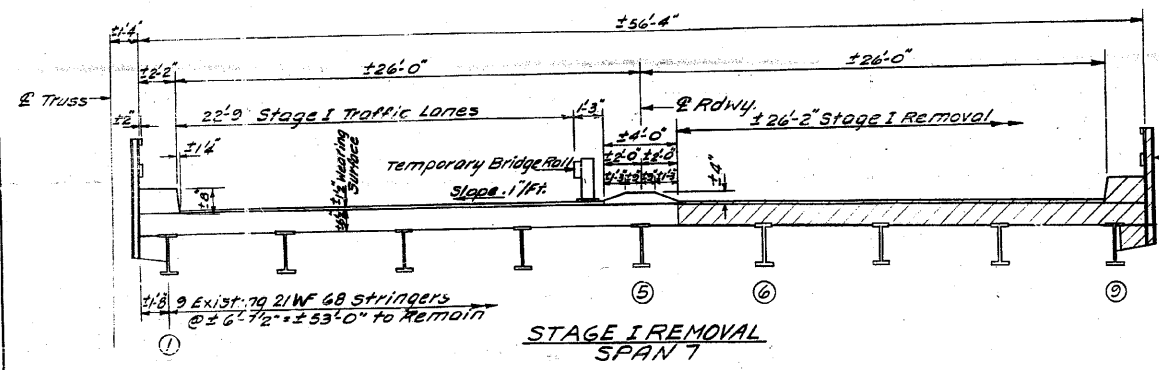
CB Coombe-Bloxdorf P.C.
 -CIVIL ENGINEERS-
 -STRUCTURAL ENGINEERS-
 -LAND SURVEYORS-
 Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	134
			CONTRACT NO. 76882	
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64-IVBR	ST. CLAIR	259	135

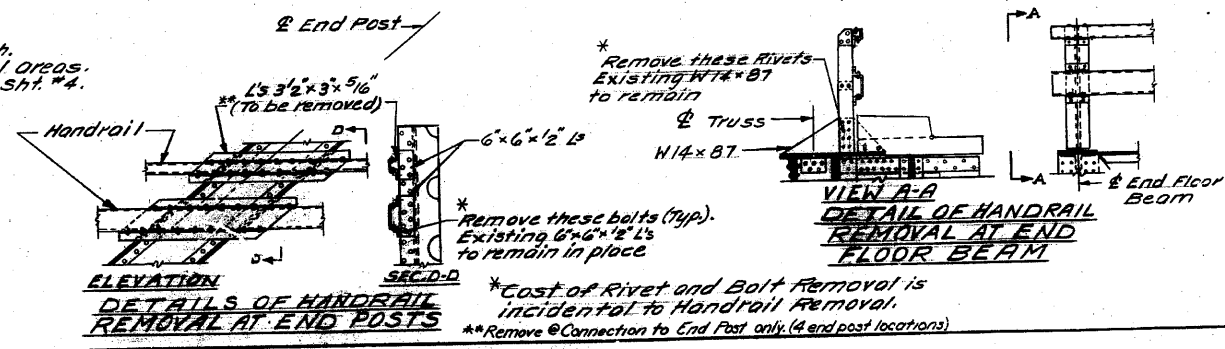
SHEET NO. 3
18 SHEETS



All cross sections are looking South.
Hatched Portions Indicate Removal Areas.
For Temporary Bridge Rail details, see Sht. #4.

DESIGNED: *Ramon Belva*
CHECKED: *Daniel Struffi*
DRAWN: LH
CHECKED: DG

EXAMINED: *Ramon Belva*
APPROVED: *Ramon Belva*
DIRECTOR OF HIGHWAYS



STAGE CONSTRUCTION DETAILS
SPAN 7
FA. RTE. 14 SEC. 64-IVB1
ST. CLAIR COUNTY
STA. 281 + 07.13

FOR INFORMATION ONLY

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
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CB JOB NO 09021	PLOT DATE = 8/5/2010	DATE - / /	REVISED -

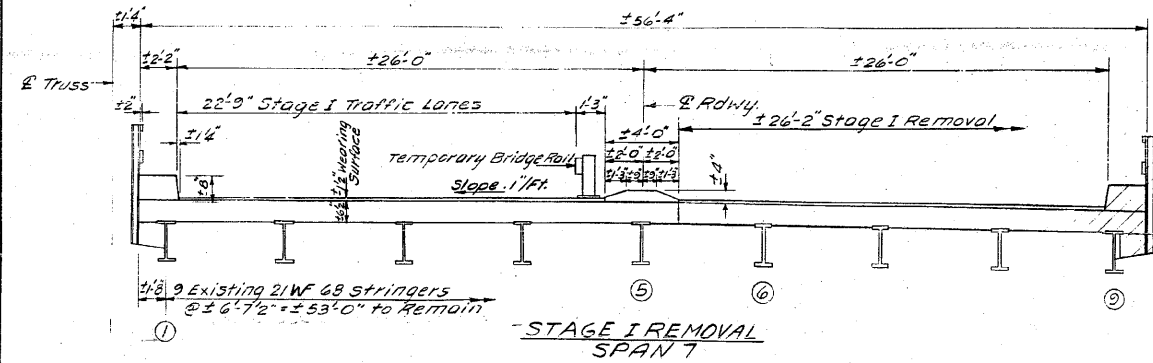
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS (REHABILITATION PLANS)			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

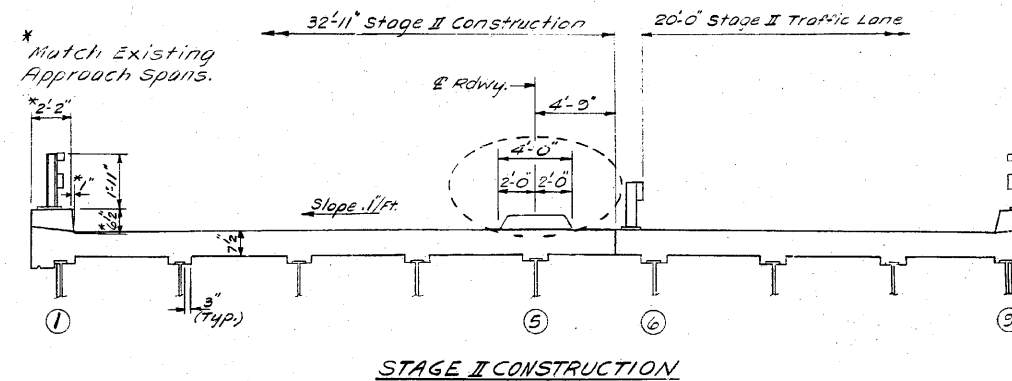
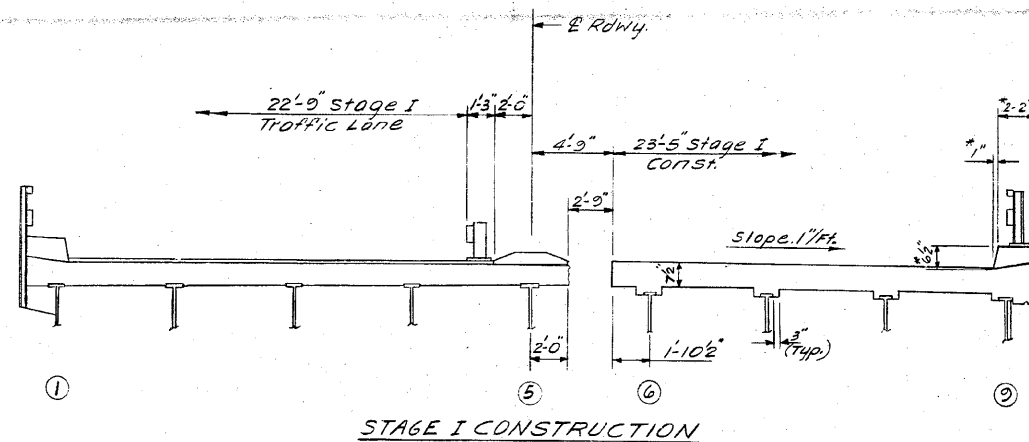
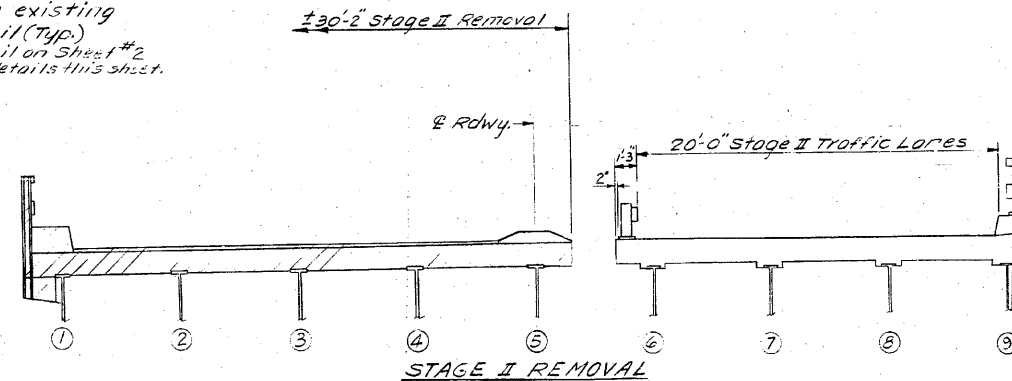
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	135
CONTRACT NO. 76882				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	136
SHEET NO. 30				
1/3 SHEETS				

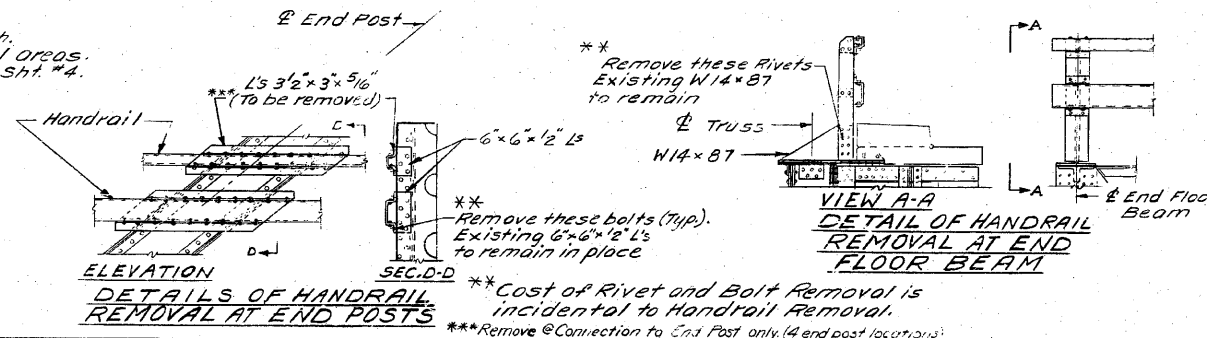


Remove existing Handrail (Typ.)
See detail on Sheet #2
Also see details this sheet.

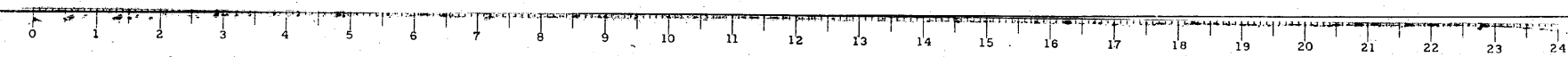


All cross sections are looking South.
Hatched Portions indicate Removal Areas.
For Temporary Bridge Rail details, see Sht. #4.

DESIGNED	Feb. 4 1985
CHECKED	
DRAWN	LH
CHECKED	LG



STAGE CONSTRUCTION DETAILS
SPAN 7
FA. RTE. 14 SEC. 64-1VBI
ST. CLAIR COUNTY
STA. 281 + 07.13
AS REVISED 2-28-86 DE A



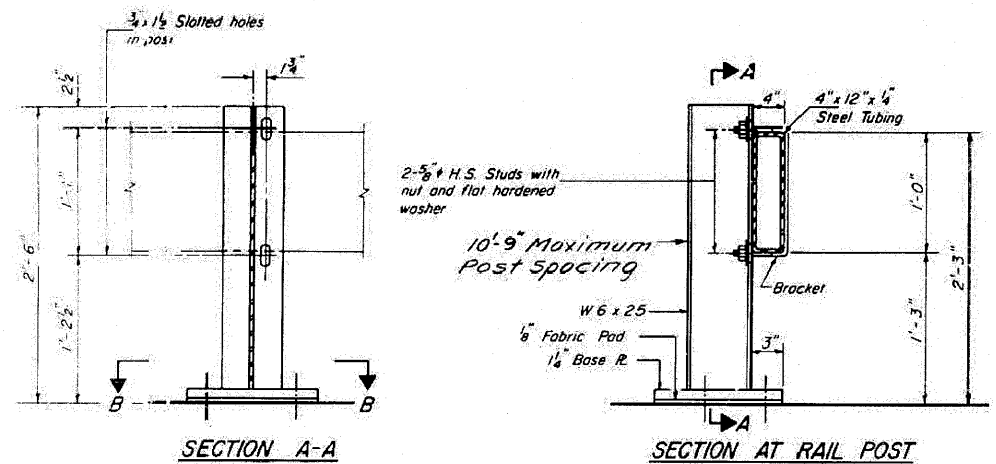
FOR INFORMATION ONLY

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

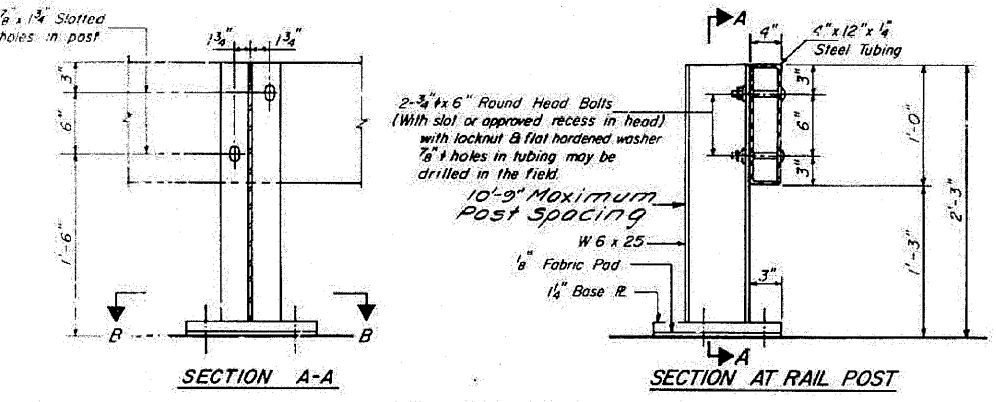
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PLOT SCALE = 40.000000' / IN.	CHECKED -	REVISED -	312			64-1VBR	ST. CLAIR	259	136	
PLOT DATE = 8/5/2010	DATE - / /	REVISED -	CONTRACT NO. 76882							
CB JOB NO 07921			ILLINOIS FED. AID PROJECT							

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

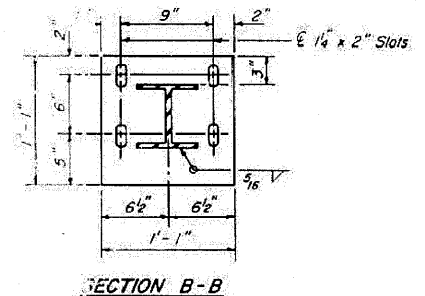
DESIGN NO.	SECTION	PROJECT	TOTAL SHEETS	SHEET NO.
11-NBI	ST. CLAIR	23	8	18 SHEETS



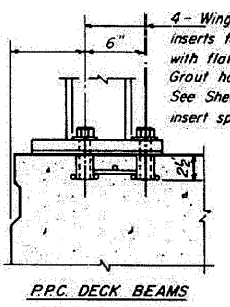
ALTERNATE I



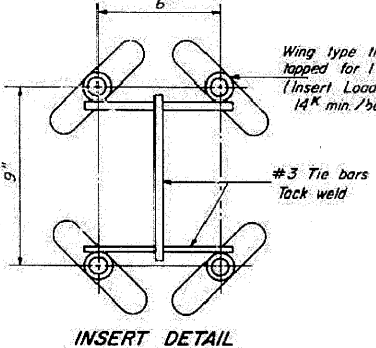
ALTERNATE II



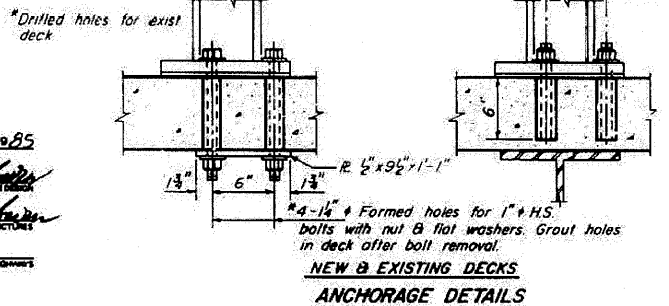
SECTION B-B



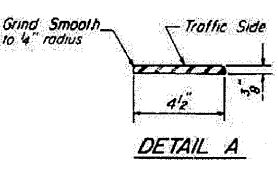
P.P.C. DECK BEAMS



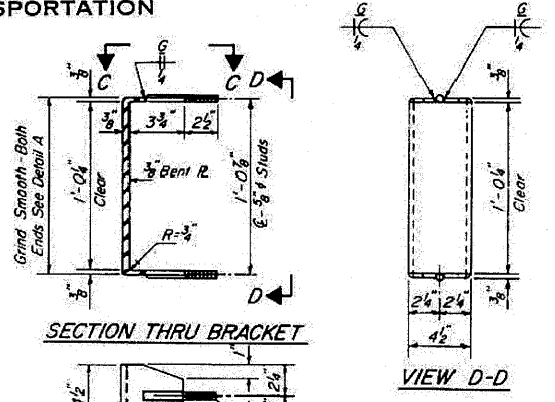
INSERT DETAIL



NEW & EXISTING DECKS
ANCHORAGE DETAILS

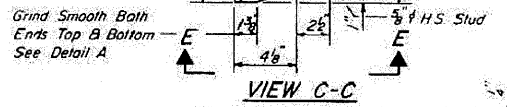


DETAIL A

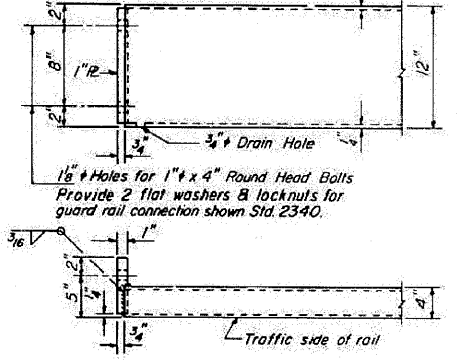


SECTION THRU BRACKET

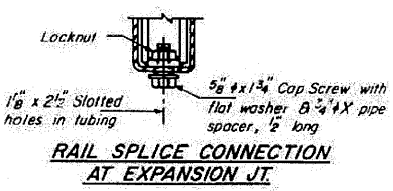
VIEW D-D



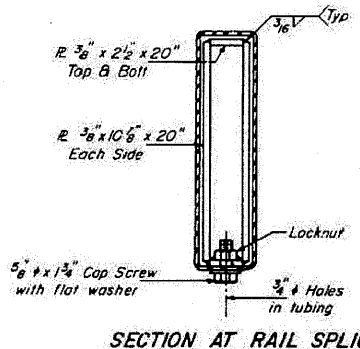
VIEW C-C



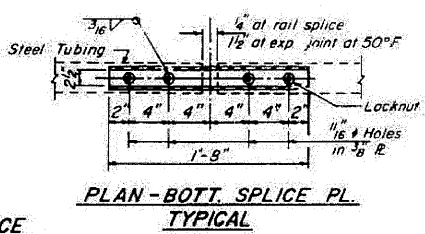
END OF RAIL DETAILS



RAIL SPLICE CONNECTION
AT EXPANSION JT.



SECTION AT RAIL SPLICE



PLAN - BOTT. SPLICE PL.
TYPICAL

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B Structural Steel Tubing.
All other steel shapes and plates shall conform to the requirements of AASHTO M-183 except posts and brackets shall conform to AASHTO M 223 Grade 50 Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, threaded rods, studs, nuts and washers noted which shall conform to A.A.S.H.T.O. M-164.
The bridge rail shall receive one shop coat of a steel prime paint.
The 1" high strength bolts or threaded rods used to connect the railposts shall be tightened in accordance with Article 50704(g)(3) of the Standard Specification.
See Special Provisions for Temporary Bridge Rail.
The contact surfaces between post flange, rail and inside face of bracket for Alternate J shall be free of all lubricants.
The nut for 5/8" high strength studs used in Alternate I to connect bracket to post shall be tightened to a snug fit and given an additional one half turn.

BILL OF MATERIAL

Item	Unit	Quantity
Temporary Bridge Rail	Lin Ft	903

TEMPORARY BRIDGE RAIL

DESIGNED: [Signature]
CHECKED: [Signature]
DRAWN: LH
CHECKED: [Signature]
DATE: Feb. 4, 1985
APPROVED: [Signature]
DIRECTOR OF HIGHWAYS

D-25 6-1-85

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(REHABILITATION PLANS)

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
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PLOT SCALE = 48.000000 / IN.		CHECKED -	REVISED -
CB JOB NO 09021	PLOT DATE = 8/5/2010	DATE - / /	REVISED -

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	137
			CONTRACT NO. 76882	
ILLINOIS FED. AID PROJECT				

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	DISTRICT	COUNTY	SECTION	SHEET NO.
1139-D876882	WINNEBAGO	ST. CLAIR	23	10

STRINGER #5 AND C ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Top of Stringer Elevations	Fillet Height "H" in Inches
PANEL POINT L0	28106.900	0.0	452.279	452.303	451.652	5/16
A	28116.900	0.0	452.323	452.387	451.717	5/16
B	28126.900	0.0	452.383	452.447	451.782	1/2
PANEL POINT L1	28135.650	0.0	452.395	452.482	451.893	3/16
C	28145.650	0.0	452.428	452.543	451.883	7/16
D	28155.650	0.0	452.456	452.579	451.925	3/8
PANEL POINT L2	28164.400	0.0	452.478	452.594	451.966	1/16
E	28174.400	0.0	452.499	452.640	451.991	5/16
F	28184.400	0.0	452.516	452.683	452.017	1/4
PANEL POINT L3	28193.150	0.0	452.520	452.664	452.045	-1/16
G	28203.150	0.0	452.537	452.693	452.050	1/4
H	28213.150	0.0	452.543	452.699	452.055	1/4
PANEL POINT L4	28221.900	0.0	452.545	452.688	452.065	-1/16
I	28231.900	0.0	452.543	452.700	452.074	0
J	28241.900	0.0	452.537	452.691	452.068	3/16
PANEL POINT L5	28250.650	0.0	452.528	452.664	452.057	-1/16
K	28260.650	0.0	452.515	452.632	452.017	1/4
L	28270.650	0.0	452.498	452.636	451.988	5/16
PANEL POINT L6	28279.400	0.0	452.479	452.595	451.966	1/16
M	28289.400	0.0	452.454	452.578	451.921	3/8
N	28299.400	0.0	452.425	452.557	451.878	7/16
PANEL POINT L7	28308.150	0.0	452.397	452.484	451.843	3/16
O	28318.150	0.0	452.360	452.443	451.775	1/2
P	28328.150	0.0	452.323	452.380	451.708	9/16
PANEL POINT L8	28336.900	0.0	452.281	452.305	451.652	5/16

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
PANEL POINT L0	28106.900	4.750	452.240	452.258
A	28116.900	4.750	452.284	452.315
B	28126.900	4.750	452.324	452.391
PANEL POINT L1	28135.650	4.750	452.356	452.421
C	28145.650	4.750	452.388	452.480
D	28155.650	4.750	452.417	452.516
PANEL POINT L2	28164.400	4.750	452.438	452.527
E	28174.400	4.750	452.460	452.573
F	28184.400	4.750	452.477	452.595
PANEL POINT L3	28193.150	4.750	452.488	452.595
G	28203.150	4.750	452.498	452.624
H	28213.150	4.750	452.503	452.624
PANEL POINT L4	28221.900	4.750	452.505	452.616
I	28231.900	4.750	452.503	452.630
J	28241.900	4.750	452.497	452.621
PANEL POINT L5	28250.650	4.750	452.489	452.596
K	28260.650	4.750	452.475	452.594
L	28270.650	4.750	452.458	452.565
PANEL POINT L6	28279.400	4.750	452.446	452.524
M	28289.400	4.750	452.415	452.514
N	28299.400	4.750	452.386	452.475
PANEL POINT L7	28308.150	4.750	452.357	452.422
O	28318.150	4.750	452.321	452.387
P	28328.150	4.750	452.280	452.327
PANEL POINT L8	28336.900	4.750	452.242	452.258

STRINGER #6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Top of Stringer Elevations	Fillet Height "H" in Inches
PANEL POINT L0	28106.900	6.625	452.224	452.240	451.593	1/4
A	28116.900	6.625	452.268	452.280	451.654	1/2
B	28126.900	6.625	452.308	452.316	451.715	1/16
PANEL POINT L1	28135.650	6.625	452.340	452.347	451.772	1/8
C	28145.650	6.625	452.373	452.366	451.817	1/8
D	28155.650	6.625	452.401	452.391	451.853	5/16
PANEL POINT L2	28164.400	6.625	452.423	452.435	451.890	0
E	28174.400	6.625	452.444	452.446	451.916	1/4
F	28184.400	6.625	452.461	452.482	451.939	0
PANEL POINT L3	28193.150	6.625	452.473	452.487	451.968	-1/8
G	28203.150	6.625	452.482	452.481	451.974	1/16
H	28213.150	6.625	452.488	452.487	451.975	3/16
PANEL POINT L4	28221.900	6.625	452.489	452.482	451.967	-1/8
I	28231.900	6.625	452.488	452.484	451.977	3/16
J	28241.900	6.625	452.482	452.485	451.971	3/16
PANEL POINT L5	28250.650	6.625	452.473	452.492	451.968	-1/8
K	28260.650	6.625	452.460	452.491	451.939	3/16
L	28270.650	6.625	452.442	452.490	451.912	3/16
PANEL POINT L6	28279.400	6.625	452.424	452.476	451.890	0
M	28289.400	6.625	452.399	452.460	451.848	5/16
N	28299.400	6.625	452.370	452.441	451.806	3/8
PANEL POINT L7	28308.150	6.625	452.342	452.409	451.772	1/8
O	28318.150	6.625	452.305	452.372	451.760	1/16
P	28328.150	6.625	452.265	452.313	451.685	1/2
PANEL POINT L8	28336.900	6.625	452.226	452.262	451.593	1/16

Note: For Elevations, Location Plan and Dead Load Deflection Diagrams see sheet #8.

DESIGNED: *[Signature]*
CHECKED: K. R. Ghanta
DRAWN: R. Doty
CHECKED: K. R. Ghanta

EXAMINED: *[Signature]* 1985
PASSED: *[Signature]*
APPROVED: *[Signature]*

TOP OF SLAB ELEVATIONS
F.A

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
...139-D876882-exist-bridge-repair-plans-03.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - / /	REVISED -

CB JOB NO 09021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(REHABILITATION PLANS)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	139
				CONTRACT NO. 76882

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STA.	POST	SHEET NO.
312	64-IVBR	ST. CLAIR	25	11	18 SHEETS

STRINGER #7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Top of Stringer Elevations	Fillet Height "1" in Inches
PANEL POINT L0	28106.900	13.250	452.169	452.163	451.555	174
A	28116.900	13.250	452.283	452.263	451.597	172
B	28126.900	13.250	452.293	452.321	451.676	174
PANEL POINT L1	28135.650	13.250	452.285	452.353	451.717	176
C	28145.650	13.250	452.317	452.412	451.758	174
D	28155.650	13.250	452.346	452.449	451.801	176
PANEL POINT L2	28164.400	13.250	452.388	452.463	451.839	0
E	28174.400	13.250	452.389	452.509	451.865	174
F	28184.400	13.250	452.406	452.532	451.892	176
PANEL POINT L3	28193.150	13.250	452.487	452.532	451.918	-174
G	28203.150	13.250	452.487	452.562	451.923	176
H	28213.150	13.250	452.433	452.568	451.930	176
PANEL POINT L4	28221.900	13.250	452.634	452.559	451.938	-174
I	28231.900	13.250	452.632	452.568	451.930	176
J	28241.900	13.250	452.626	452.555	451.922	174
PANEL POINT L5	28250.650	13.250	452.638	452.533	451.918	-174
K	28260.650	13.250	452.605	452.531	451.890	176
L	28270.650	13.250	452.587	452.503	451.862	176
PANEL POINT L6	28275.400	13.250	452.369	452.464	451.839	0
M	28285.400	13.250	452.364	452.448	451.796	174
N	28294.400	13.250	452.315	452.408	451.752	176
PANEL POINT L7	28308.150	13.250	452.286	452.354	451.717	174
C	28318.150	13.250	452.250	452.317	451.652	172
P	28328.150	13.250	452.210	452.257	451.588	172
PANEL POINT L8	28336.900	13.250	452.171	452.185	451.535	176

STRINGER #8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Top of Stringer Elevations	Fillet Height "1" in Inches
PANEL POINT L0	28106.900	19.875	452.114	452.123	451.879	174
A	28116.900	19.875	452.158	452.205	451.543	176
B	28126.900	19.875	452.198	452.263	451.608	178
PANEL POINT L1	28135.650	19.875	452.229	452.294	451.666	176
C	28145.650	19.875	452.262	452.356	451.708	174
D	28155.650	19.875	452.291	452.394	451.751	176
PANEL POINT L2	28164.400	19.875	452.312	452.408	451.791	-174
E	28174.400	19.875	452.333	452.455	451.847	174
F	28184.400	19.875	452.351	452.479	451.895	174
PANEL POINT L3	28193.150	19.875	452.362	452.480	451.872	-176
G	28203.150	19.875	452.372	452.510	451.877	176
H	28213.150	19.875	452.377	452.515	451.884	176
PANEL POINT L4	28221.900	19.875	452.379	452.502	451.892	-176
I	28231.900	19.875	452.377	452.516	451.884	176
J	28241.900	19.875	452.371	452.507	451.876	176
PANEL POINT L5	28250.650	19.875	452.363	452.481	451.872	-176
K	28260.650	19.875	452.349	452.477	451.841	174
L	28270.650	19.875	452.332	452.451	451.814	174
PANEL POINT L6	28275.400	19.875	452.313	452.409	451.791	-176
M	28285.400	19.875	452.285	452.392	451.746	174
N	28294.400	19.875	452.260	452.351	451.702	176
PANEL POINT L7	28308.150	19.875	452.231	452.296	451.668	174
C	28318.150	19.875	452.195	452.255	451.600	176
P	28328.150	19.875	452.154	452.197	451.534	176
PANEL POINT L8	28336.900	19.875	452.116	452.125	451.479	174

STRINGER #9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Top of Stringer Elevations	Fillet Height "1" in Inches
PANEL POINT L0	28106.900	26.500	452.058	452.061	451.819	174
A	28116.900	26.500	452.102	452.143	451.482	176
B	28126.900	26.500	452.142	452.200	451.548	176
PANEL POINT L1	28135.650	26.500	452.174	452.233	451.607	174
C	28145.650	26.500	452.207	452.276	451.650	174
D	28155.650	26.500	452.235	452.334	451.694	176
PANEL POINT L2	28164.400	26.500	452.257	452.345	451.734	-174
E	28174.400	26.500	452.278	452.397	451.761	174
F	28184.400	26.500	452.295	452.421	451.740	176
PANEL POINT L3	28193.150	26.500	452.307	452.424	451.818	-174
G	28203.150	26.500	452.317	452.453	451.823	176
H	28213.150	26.500	452.322	452.455	451.830	176
PANEL POINT L4	28221.900	26.500	452.322	452.446	451.836	-174
I	28231.900	26.500	452.322	452.460	451.830	176
J	28241.900	26.500	452.316	452.451	451.821	176
PANEL POINT L5	28250.650	26.500	452.304	452.425	451.818	-174
K	28260.650	26.500	452.294	452.420	451.787	174
L	28270.650	26.500	452.277	452.392	451.756	174
PANEL POINT L6	28275.400	26.500	452.255	452.350	451.734	-174
M	28285.400	26.500	452.233	452.332	451.684	174
N	28294.400	26.500	452.204	452.290	451.644	174
PANEL POINT L7	28308.150	26.500	452.176	452.235	451.607	174
C	28318.150	26.500	452.140	452.197	451.509	174
P	28328.150	26.500	452.099	452.136	451.474	176
PANEL POINT L8	28336.900	26.500	452.063	452.063	451.418	174

Note: For Elevations Location Plans and Dead Load Deflection Diagrams see sheet #8.

DESIGNED *[Signature]*
CHECKED K.R Ghanta
DRAWN R. Doty
CHECKED K.R Ghanta

EXAMINED *[Signature]*
PASSED *[Signature]*
APPROVED
DIRECTOR OF HIGHWAY

TOP OF SLAB ELEVATIONS
E-I

FOR INFORMATION ONLY

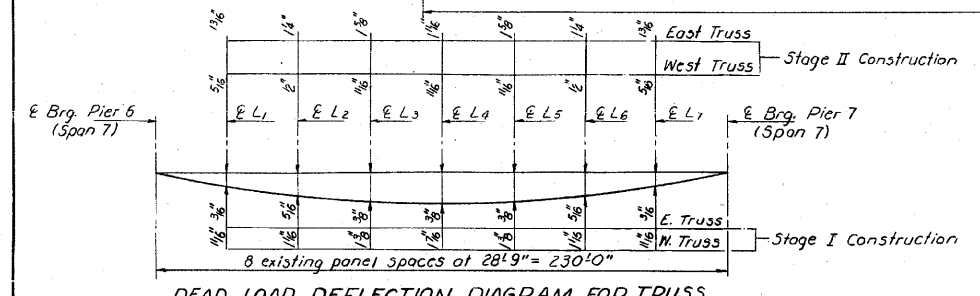
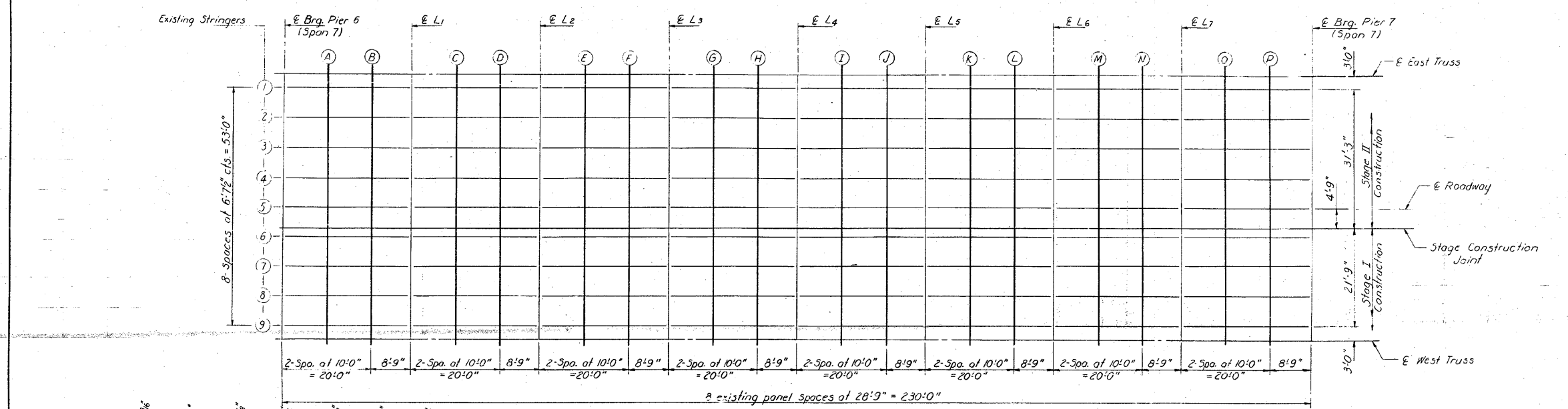
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- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

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PLOT SCALE = 40.000000' / IN.	DRAWN	REVISED				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 6/5/2010	CHECKED	REVISED				312	64-IVBR	ST. CLAIR	259	140
DATE - / /	DATE	REVISED				CONTRACT NO. 76882				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

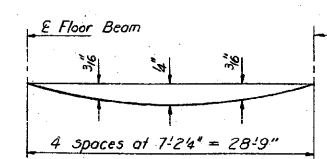
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7.3	64-IVBR	ST. CLAIR	17	18

SHEET NO. 8
18 SHEETS



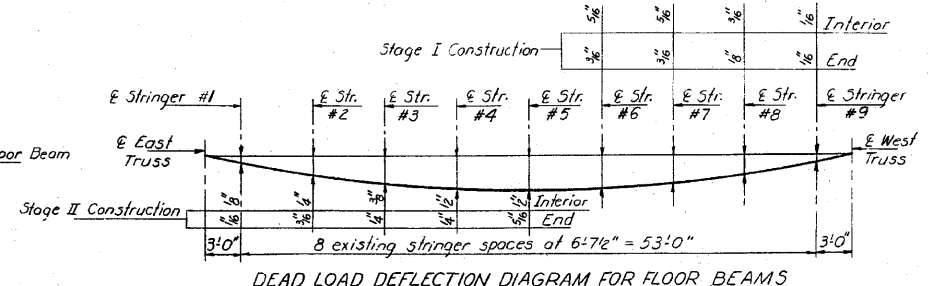
DEAD LOAD DEFLECTION DIAGRAM FOR TRUSS

(Includes weight of concrete only)
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets #5, #6 & #7.



DEAD LOAD DEFLECTION DIAGRAM FOR STRINGERS

(Includes weight of concrete only)
(See Note)



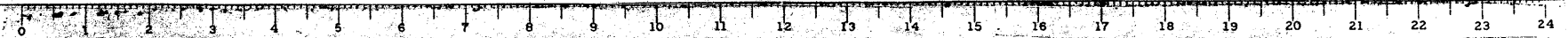
DEAD LOAD DEFLECTION DIAGRAM FOR FLOOR BEAMS

(Includes weight of concrete only)
(See Note)

Note 1: The top of stringer elevations at various stages of construction are estimated from the information given in existing plans and are subject to variations. The contractor shall assess the accuracy of these by taking elevations of representative locations when there is no live load in Span 7 and verify the fillet heights before proceeding with setting up of forms.

TOP OF SLAB ELEVATIONS DETAILS
SPAN 7
F.A. RT. 14 SEC. 64-IVB1
ST. CLAIR COUNTY
STA. 281+07.13

DESIGNED	1981
CHECKED	
DRAWN	
CHECKED	



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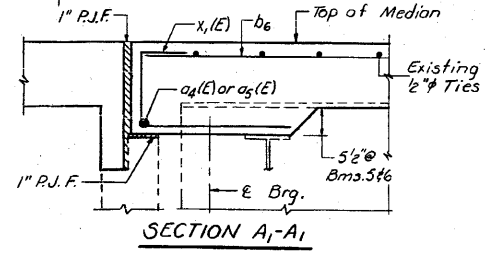
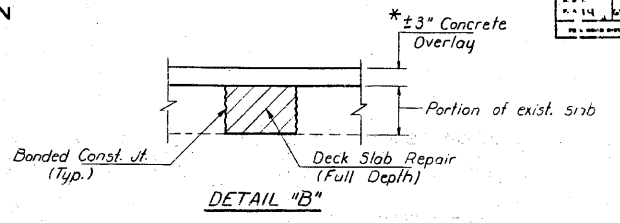
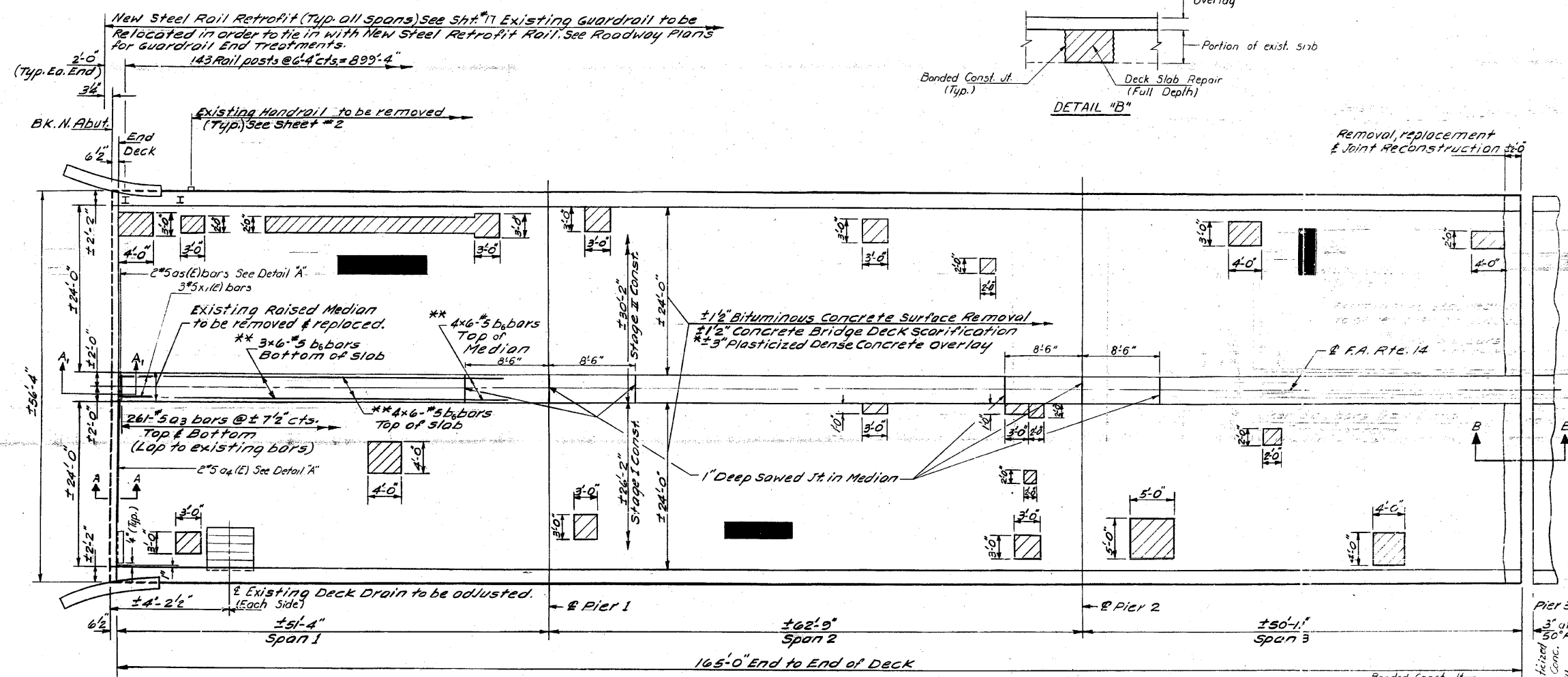
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PLOT SCALE = 40,000,000 / IN.		CHECKED -	REVISED -												CONTRACT NO. 76882				
PLOT DATE = 8/5/2010		DATE - / /	REVISED -												ILLINOIS FED. AID PROJECT				

CB Coombe-Bloxdorf P.C.
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- STRUCTURAL ENGINEERS-
- LAND SURVEYORS-
Design Firm License No. 184-002703

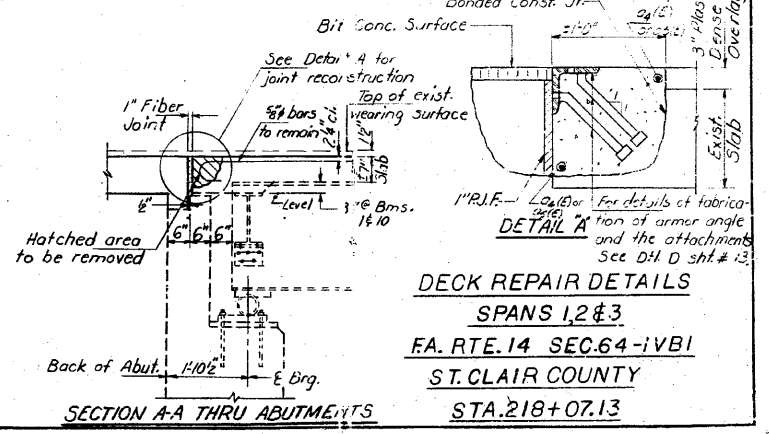
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	142

18 SHEETS



Shaded areas represent Deck Slab Repair - Partial Depth Actual areas and locations to be determined in the field by the Engineer.
 Hatched areas indicate Full Depth Deck Repairs. Areas and locations are approximate, actual areas and locations to be verified in the field by the Engineer.
 * Plasticized Dense Concrete Overlay shall not be applied until Deck Slab Repairs are completed and the end joints are reconstructed. See Detail B.
 For Cross section see sheet #2.
 For Sections B-B, C-C, & Bill of Material see sheet #11.
 Bars indicated thus 3x20-#5 etc. indicates 3 lines of bars with 20 lengths per line.
 Min lap for #5 bars shall be 1'-8" unless otherwise noted.
 ** For Placement Details, see Median Replacement Details sheet #14.
 For Joint Removal Details, see sheet #10.
 For Joint Reconstruction Details, see sheet #11.
 For Deck Drain Adjustment Details, see sheet #10.
 Approximately 675 Sq. Ft. of Bridge sidewalk Repair (Partial Depth) is included. Actual areas and locations to be determined in the field by the Engineer.



DESIGNED	David R. Roberts	EXAMINED	James R. Roberts
CHECKED	David R. Roberts	APPROVED	James R. Roberts
DRAWN	L.H.	APPROVED	James R. Roberts
CHECKED	D.G.	APPROVED	James R. Roberts

DESIGNER'S SEAL: David R. Roberts, EIT, No. 1985



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FILE NAME	USER NAME	DESIGNED	REVISED
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PLOT DATE = 8/5/2010	CHECKED	-	-
	DATE	- / - / -	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

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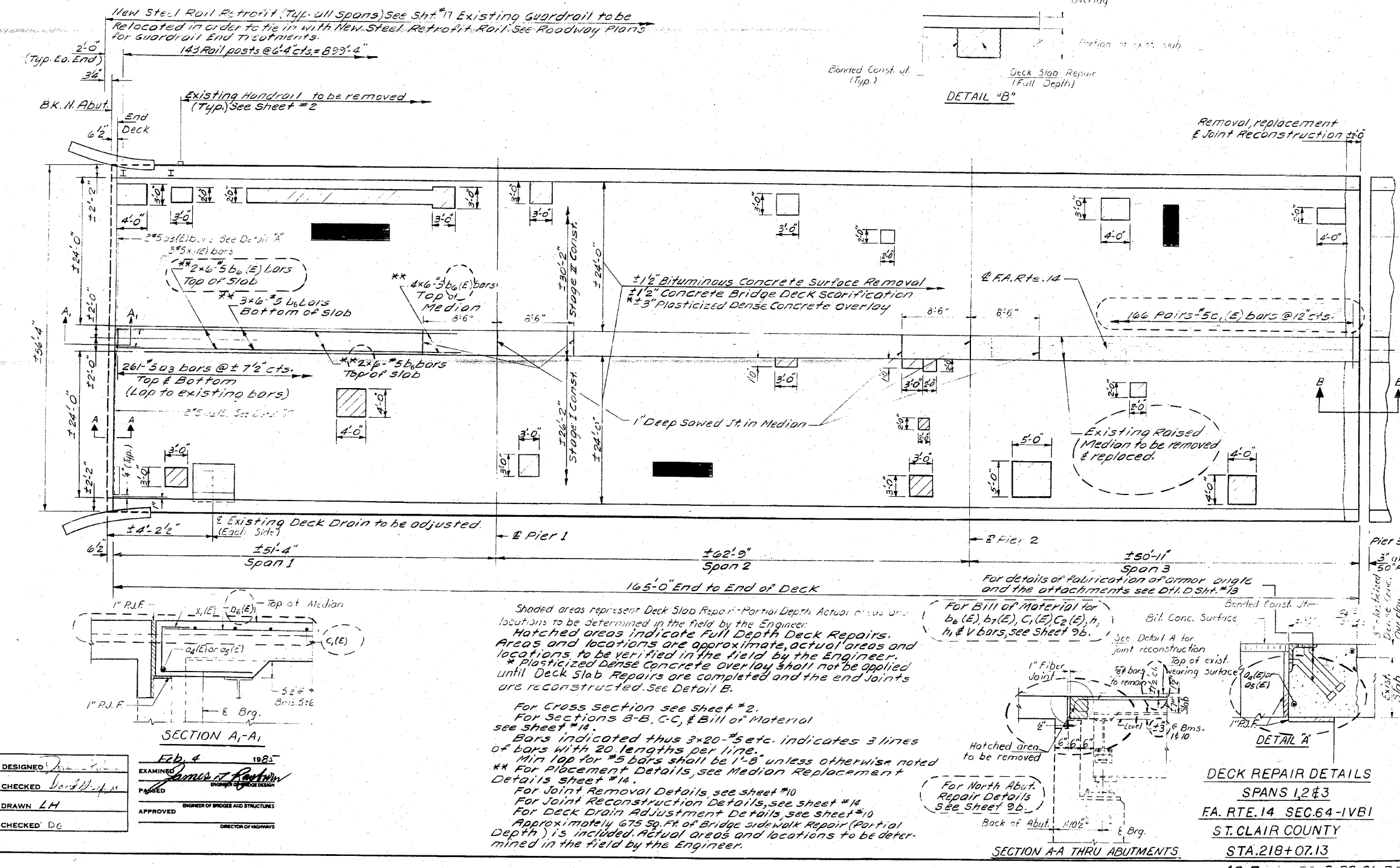
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	142

CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64-14	IVBR	ST. CLAIR	25	13a
PER. ROAD DIST. NO. 7 ILLINOIS PER. AID PROJECT				

SHEET NO. 9a
18 SHEETS



DESIGNED: [Signature] 1983
EXAMINED: [Signature] 1983
CHECKED: [Signature]
DRAWN: LH
CHECKED: DG

APPROVED: [Signature]
ENGINEER OF BRIDGES AND STRUCTURES
DIRECTOR OF HIGHWAYS

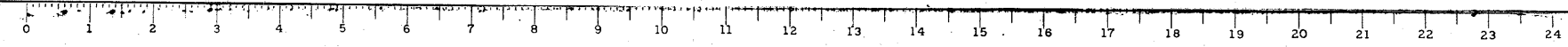
Shaded areas represent Deck Slab Repair - Partial Depth. Actual areas and locations to be determined in the field by the Engineer.
Hatched areas indicate Full Depth Deck Repairs. Areas and locations are approximate, actual areas and locations to be verified in the field by the Engineer.
* Plasticized Dense Concrete Overlay shall not be applied until Deck Slab Repairs are completed and the end joints are reconstructed. See Detail B.

For Cross section see sheet #2.
For Sections B-B, C-C, & Bill of Material see sheet #14.
Bars indicated thus 3x20-5 etc. indicates 3 lines of bars with 20 lengths per line.
Min lap for #5 bars shall be 1'-8" unless otherwise noted.
** For Placement Details, see Median Replacement Details sheet #14.
For Joint Removal Details see sheet #10.
For Joint Reconstruction Details, see sheet #14.
For Deck Drain Adjustment Details, see sheet #10.
Approximately 675 Sq. Ft. of Bridge Side Walk Repair (Partial Depth) is included. Actual areas and locations to be determined in the field by the Engineer.

For Bill of Material for b_o(E), b_y(E), C₁(E), C₂(E), h₁, h₂ & V bars, see Sheet 9b.

See Detail A for joint reconstruction

For North Abut. Repair Details see Sheet 9b.



FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
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	PLOT SCALE = 48.000000' / IN.	CHECKED -	REVISED -
CB JOB NO 89821	PLOT DATE = 6/5/2010	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(REHABILITATION PLANS)

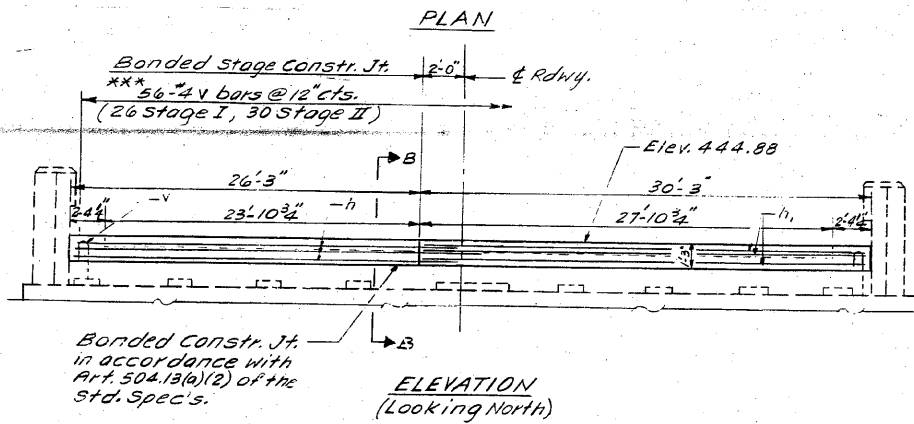
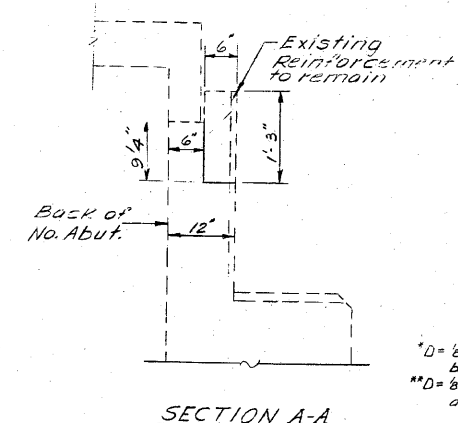
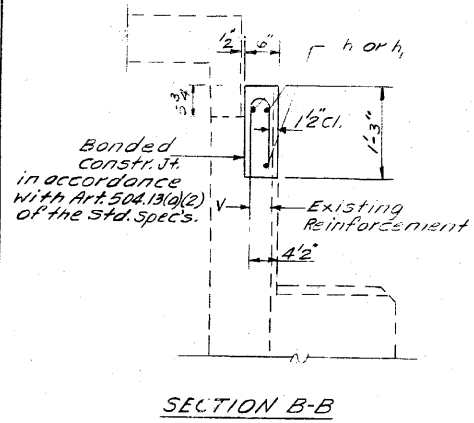
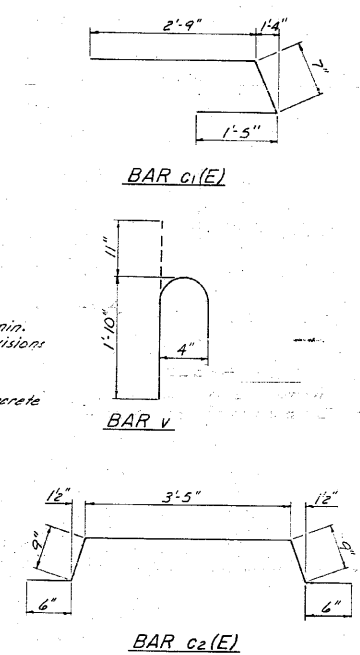
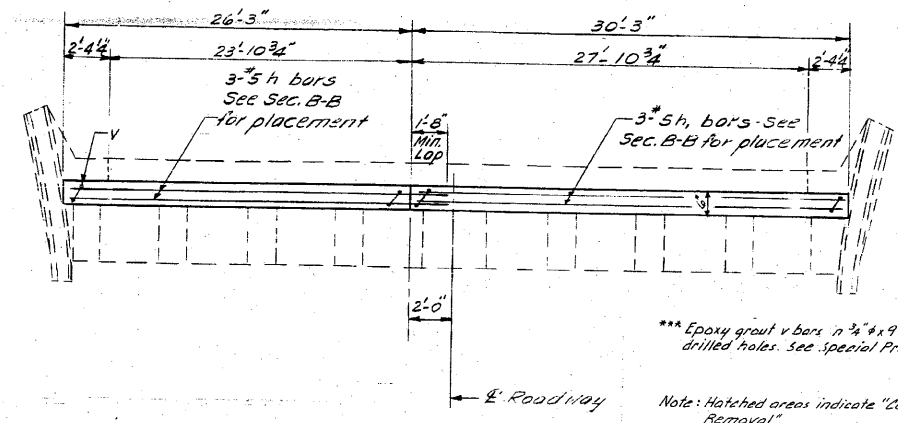
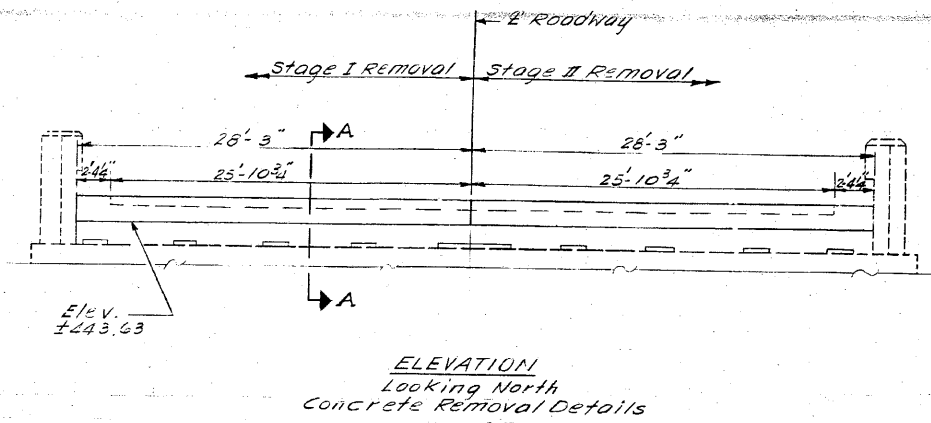
SCALE: SHEET NO. OF SHEETS STA. TO STA.

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- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	255	143
CONTRACT NO. 76882				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	QUANTITY	UNIT	PRICE	SHEET NO. 96
64-14	ST. CLAIR	23	136		18 SHEETS

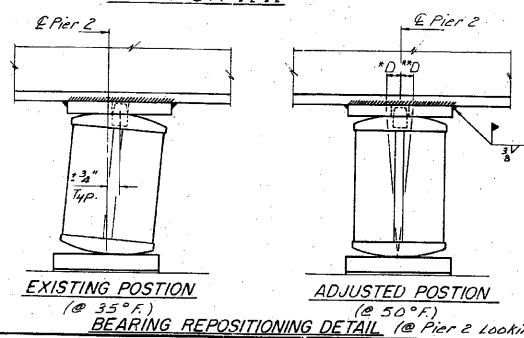


BILL OF MATERIAL

Bar No.	Size	Length	Shape
B6(E)	#5	25'-0"	
B7(E)	#5	30'-0"	
C1(E)	#5	4'-0"	
C2(E)	#5	5'-11"	
h	#5	27'-9"	
h1	#5	30'-0"	
v	#4	2'-9"	
Concrete Removal	Cu/Yds	1.3	
Reinf. Bars (Sub)	Lbs.	280	
Reinf. Bars (Super) (Epoxy Coated)	Lbs.	13510	
Class X Concrete	Cu/Yds	1.3	

REPOSITIONING EXISTING BEARINGS
(10 Req'd.)

- The Contractor shall submit for approval by the Engineer, plans for jacking prior to commencing any work at the bearings. The dead load reaction per bearing at Pier #2 is 83 kips. The minimum jack capacity for each bearing shall be 60 Tons.
- Only one bearing at a time shall be repositioned.
- Jacking shall be limited to a maximum of 1/8" lift.
- The welds on the existing top plate shall be removed by Arc Gouging and/or grinding. Care shall be taken to avoid damage to the bottom flange of the beam and the top plate. Any unavoidable gouges in the flange shall be ground smooth.
- Adjust the rocker and top plate as shown.
- Lower jacks to allow contact between the bottom flange and the top plate.
- Field weld the top plate as detailed.
- Lower jacks to fully load the bearing.
- All work at bearings shall be included in "Jack and Reposition Bearings".

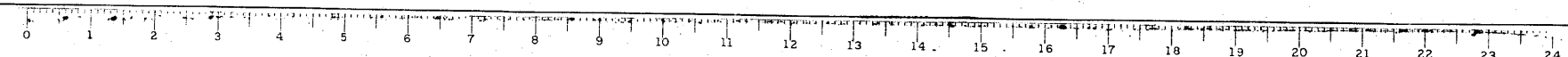


DESIGNED *David J. Hoff*
CHECKED *Ralph A. Adams*
DRAWN *L.H.*
CHECKED *R.E.A.*

EXAMINED *Oray J. Kaspar*
PASSED *James J. Roulier*
APPROVED

APRIL 4 1986
DIRECTOR OF HIGHWAYS

SUBSTRUCTURE REPAIR DETAILS
F.A.R.T.E. 14 SEC. 64-1V81
ST. CLAIR COUNTY
STA. 281+07.13



FOR INFORMATION ONLY

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- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
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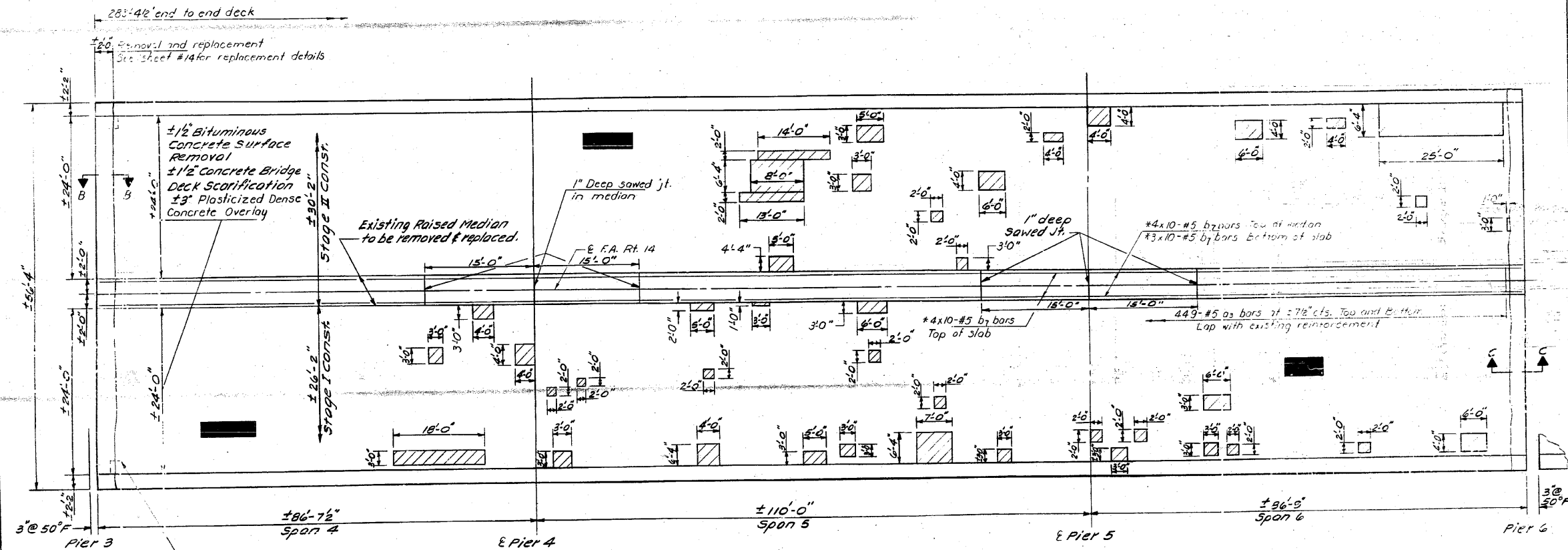
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	144

CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 082-0030 PLANS (REHABILITATION PLANS)	SCALE:	SHEET NO. OF SHEETS STA. TO STA.
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PLOT SCALE = 40,000,000 / IN.		CHECKED -	REVISED -				
PLOT DATE = 8/5/2010		DATE - / /	REVISED -				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

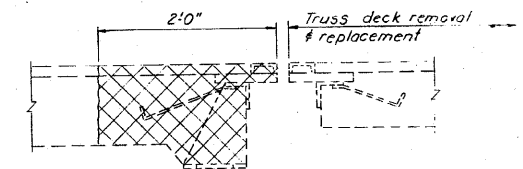
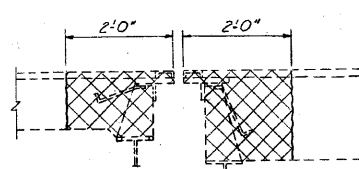
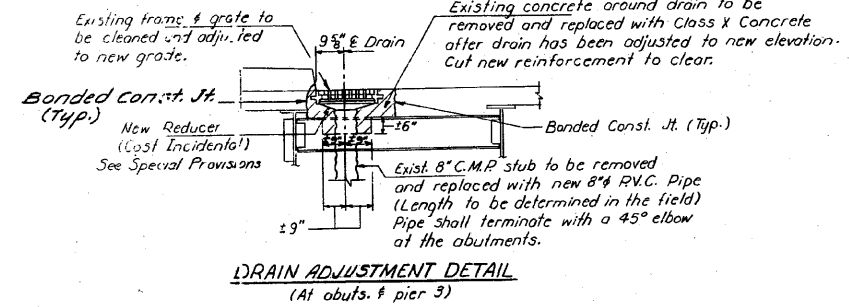
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. / TOTAL SHEETS
14	IVBR	ST. CLAIR	25	14	13 SHEETS



Existing drain to be adjusted (Typical each side) See Detail

For notes see sheet #9.

* For placement see median replacement details on sheet #14.



Note: Removal of existing expansion devices above the diaphragms is incidental to "Concrete Removal"

**DECK REPAIR DETAILS
SPANS 4, 5 & 6
FA. RTE. 14 SEC. 64-IVB!
ST. CLAIR COUNTY
STA. 218+07.13**

DESIGNED <i>James J. Belsue</i>	EXAMINED <i>James J. Belsue</i>
CHECKED <i>David J. Dwyer</i>	APPROVED <i>James J. Belsue</i>
DRAWN <i>L.H.</i>	
CHECKED <i>D.G.</i>	

Feb. 4 19 21

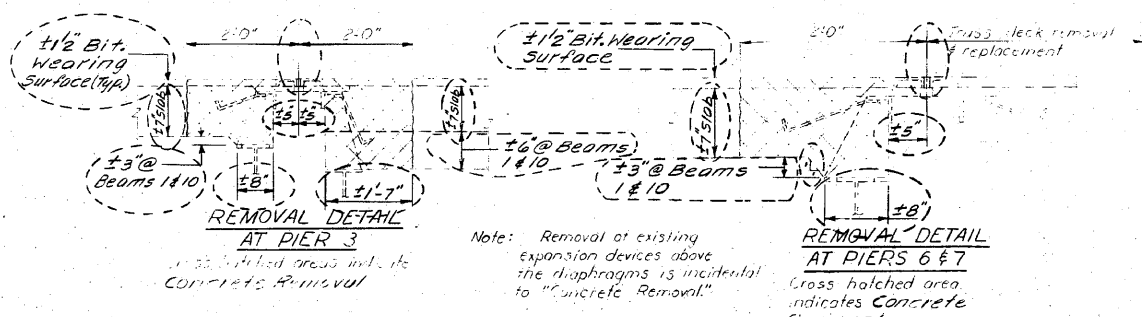
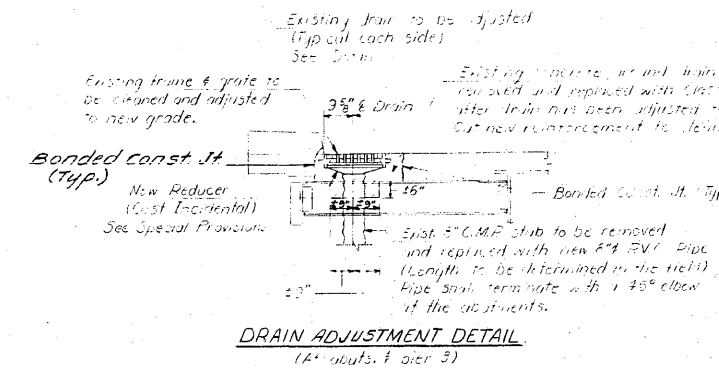
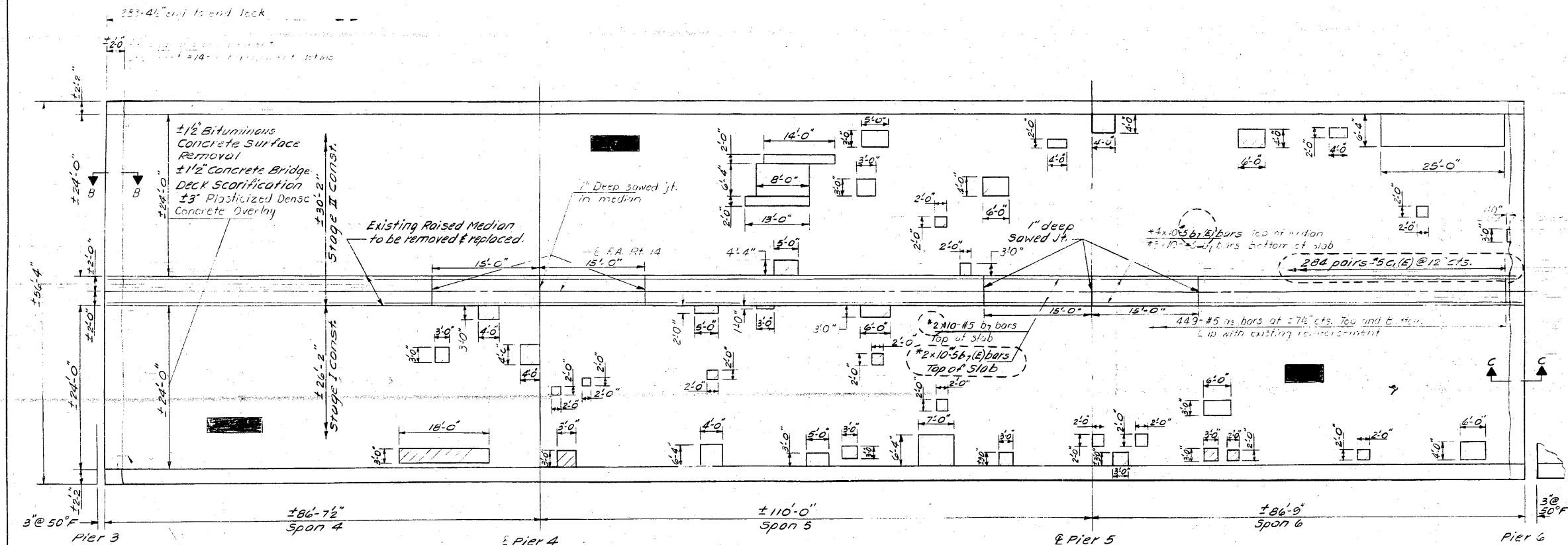
FOR INFORMATION ONLY

C Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 082-0030 PLANS (REHABILITATION PLANS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...145-0876882-exist-bridge-repair-plans-5.dgn	CFC...	-	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 082-0030 PLANS (REHABILITATION PLANS)	312	64-IVBR	ST. CLAIR	259	145
		DRAWN	REVISED							
		CHECKED	REVISED							
		DATE	REVISED							
PLOT DATE = 8/5/2010						CONTRACT NO. 76882 ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

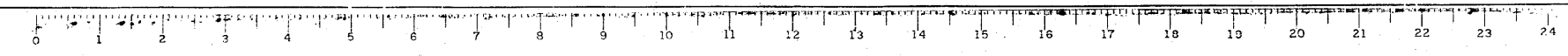
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
218+02	ST. CLAIR	23	14a	15
SHEET NO. 10a				
15 SHEETS				



DECK REPAIR DETAILS
SPANS 4, 5 & 6
FA. RTE. 14 SEC. 64-1VBI
ST. CLAIR COUNTY
STA. 218+07.13
AS REVISED 3-28-86 R.E.A.

DESIGNED *James J. Rayburn*
CHECKED *James J. Rayburn*
DRAWN LH
CHECKED PG

Feb. 4 1985
EXAMINED *James J. Rayburn*
APPROVED *James J. Rayburn*
DIRECTOR OF HIGHWAYS



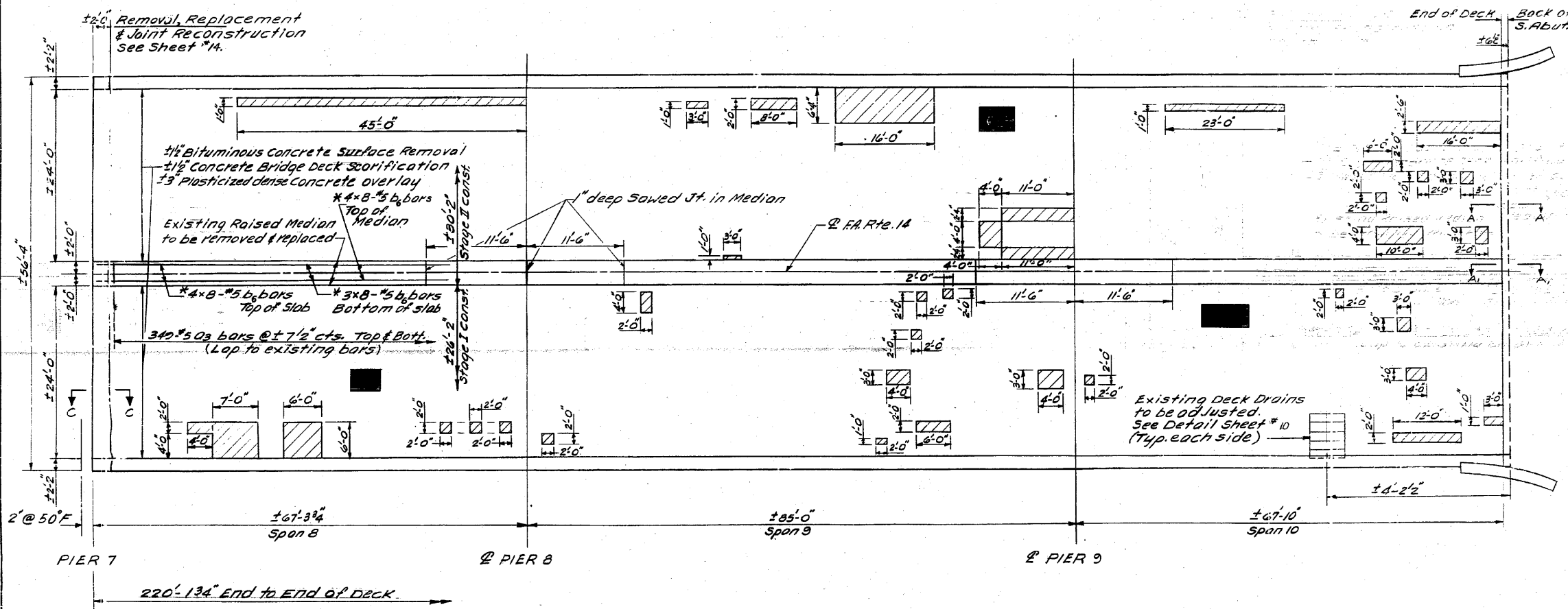
FOR INFORMATION ONLY

CB Coombe-Bloxdorf P.C.
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- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

FILE NAME = ...N146-D876882-exist-bridge-repair-plans-16.dgn	USER NAME = CFC...	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 082-0030 PLANS (REHABILITATION PLANS)	F.A.P. RTE. 312	SECTION 64-1VBR	COUNTY ST. CLAIR	TOTAL SHEETS 259	SHEET NO. 146		
PLOT SCALE = 40.000000 ' / IN.	DRAWN -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
PLOT DATE = 8/5/2010	CHECKED -	REVISED -										
CB JOB NO 09021	DATE - / /	REVISED -										

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO. 11
114	W-NBR	ST. CLAIR	25	18 SHEETS
PER ROAD DIST. NO. 7	ILLINOIS	PER. AID PROJECT		

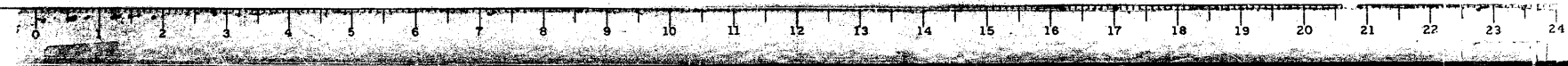


* For Placement, see Median Replacement Details, sheet #14.

For Sections A-A, A₁-A₁, and notes see sheet #9

DESIGNED	<i>Belvin</i>	EXAMINED	<i>James I. Belvin</i>
CHECKED	<i>David Sheffer</i>	APPROVED	<i>James I. Belvin</i>
DRAWN	<i>LH</i>		
CHECKED	<i>DG</i>		

DECK REPAIR DETAILS
SPANS 8,9 & 10
FA. RTE. 14 SEC. 64-1VBI
ST. CLAIR COUNTY
STA. 218+07.13



FOR INFORMATION ONLY

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- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	147
			CONTRACT NO. 76882	

ILLINOIS FED. AID PROJECT

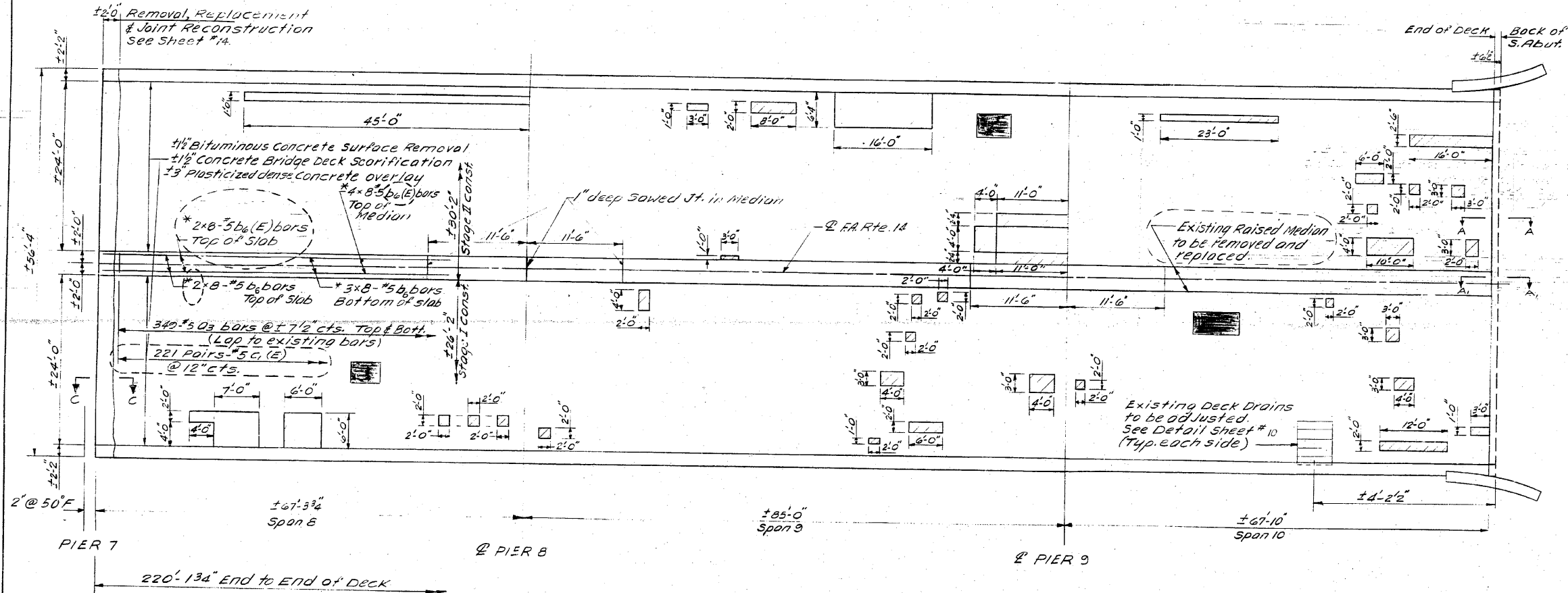
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CB JOB NO 09021	PLOT DATE = 8/5/2010	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS (REHABILITATION PLANS)	
SCALE:	SHEET NO. OF SHEETS STA. TO STA.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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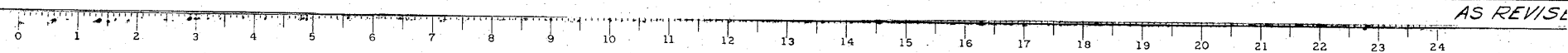


* For Placement see Median Replacement Details sheet #14.

For Sections A-A, A1-A, and notes see sheet #3

DESIGNED	<i>James J. Reynolds</i>	Feb 4 1985
CHECKED	<i>James J. Reynolds</i>	
DRAWN	LH	
CHECKED	DC	

DECK REPAIR DETAILS
SPANS 8,9 & 10
FA. RTE. 14 SEC. 64-IVBR
ST. CLAIR COUNTY
STA. 218+07.13



FOR INFORMATION ONLY

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	148

CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT

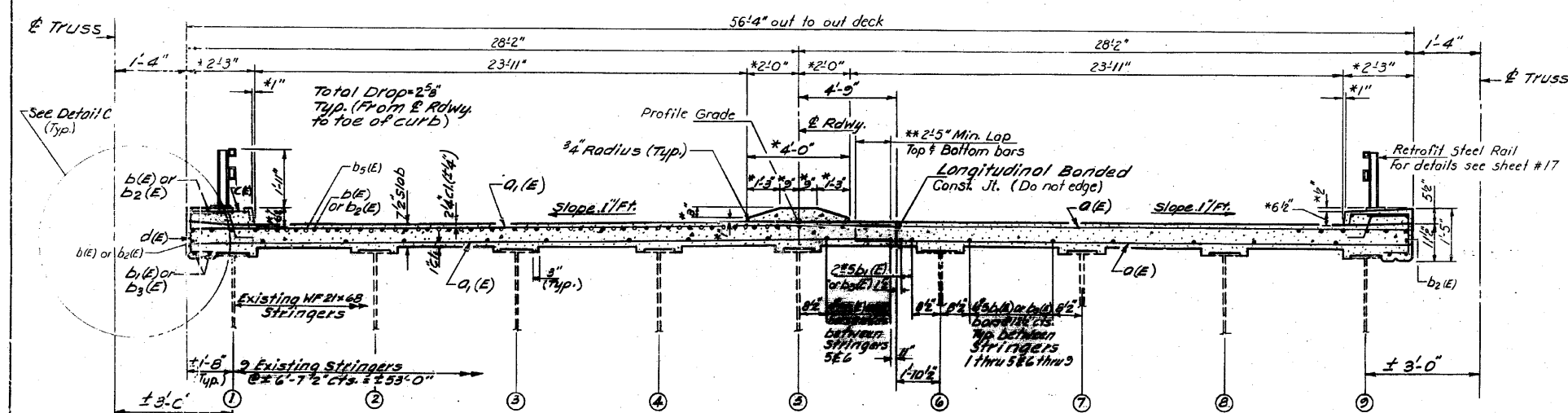
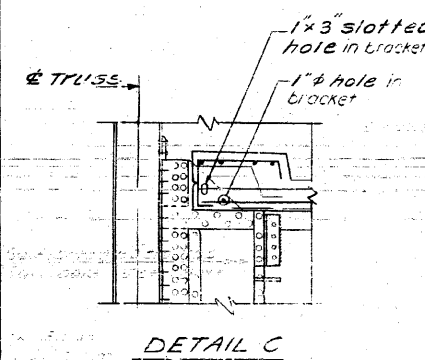
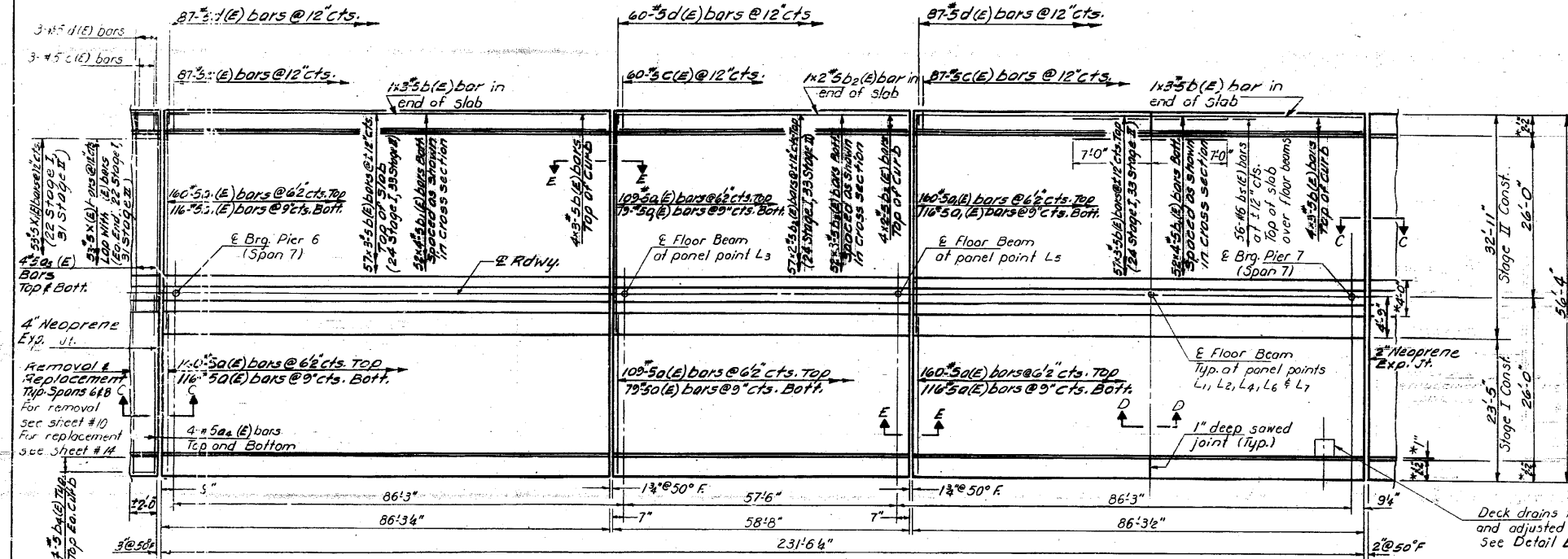
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		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS (REHABILITATION PLANS)				
SCALE:	SHEET NO.	OF	SHEETS	STA. TO STA.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	NO.	COUNTY	TOTAL SHEETS	SHEET NO.
11/14	64-IVBR	ST. CLAIR	23	16
SHEET NO. 12 18 SHEETS				



DESIGNED *James Z. Blum*
CHECKED *James Z. Blum*
DRAWN *L.H.*
CHECKED *D.G.*

EXAMINED *James Z. Blum*
PAID *James Z. Blum*
APPROVED *James Z. Blum*
DIRECTOR OF HIGHWAYS

SUPERSTRUCTURE
SPAN 7
E.A. RTE. 14 SEC. 64-1VB1
ST. CLAIR COUNTY
STA. 281+07.13

FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
...149-0876882-exist-bridge-repair-plans	9.dgn	DRAWN -	REVISED -
	PLOT SCALE = 40.000000' / IN.	CHECKED -	REVISED -
CB JOB NO 09821	PLOT DATE = 8/5/2010	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(REHABILITATION PLANS)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

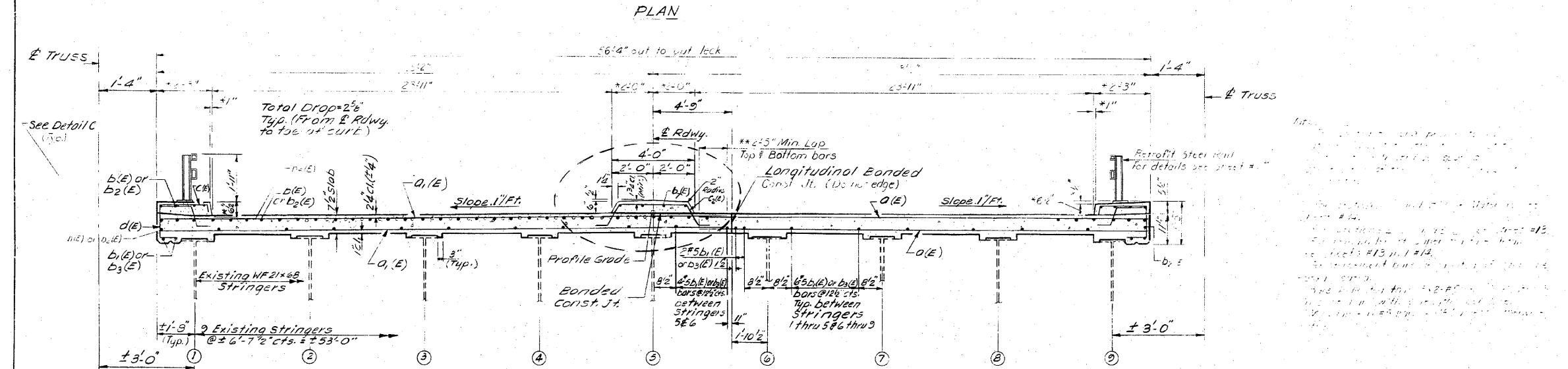
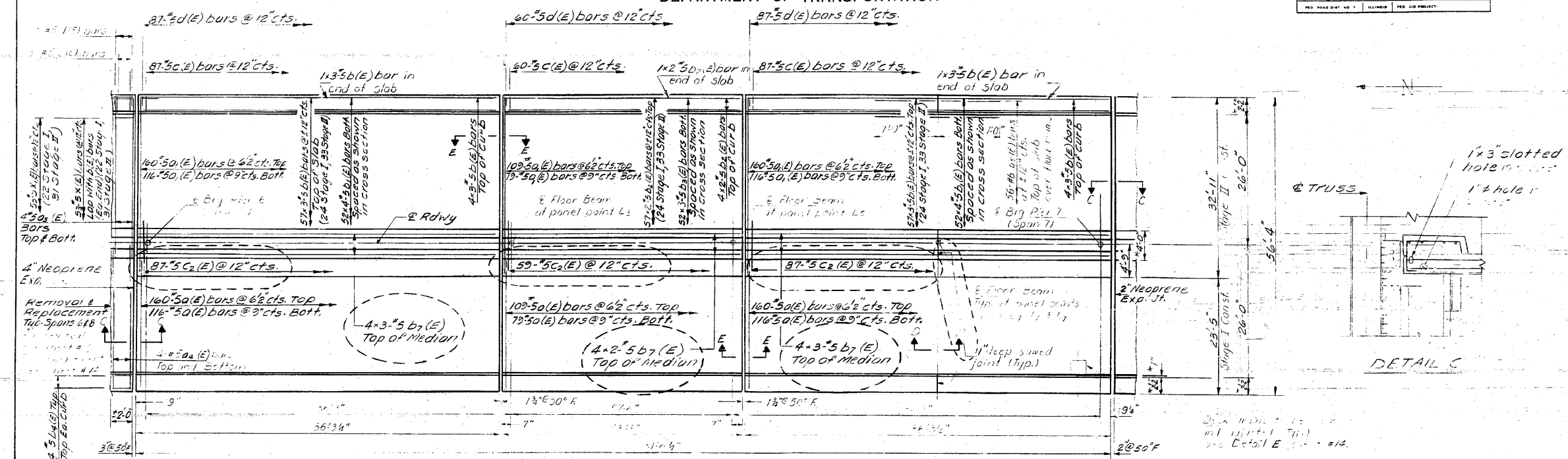
CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	149
CONTRACT NO. 76882				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

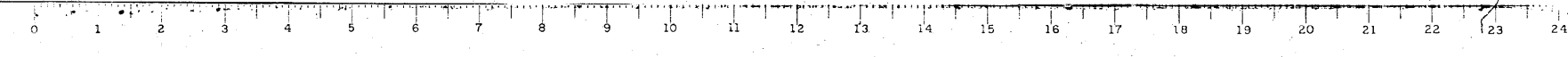
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	64-1VBR	ST. CLAIR	23	13
SHEET NO. 13 OF 23 SHEETS				



DESIGNED: [Signature]
 CHECKED: [Signature]
 DRAWN: LH
 CHECKED: [Signature]

EXAMINED: [Signature]
 PASSED: [Signature]
 APPROVED: [Signature]
 DIRECTOR OF HIGHWAYS

SUPERSTRUCTURE
 SPAN 7
 FA. RTE. 14 SEC. 64-1VBR
 ST. CLAIR COUNTY
 STA. 281+07.13



FOR INFORMATION ONLY

CB Coombe-Bloxdorf P.C.
 -CIVIL ENGINEERS-
 -STRUCTURAL ENGINEERS-
 -LAND SURVEYORS-
 Design Firm License No. 184-002703

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	64-IVB1	ST. CLAIR	259	151
18 SHEETS				

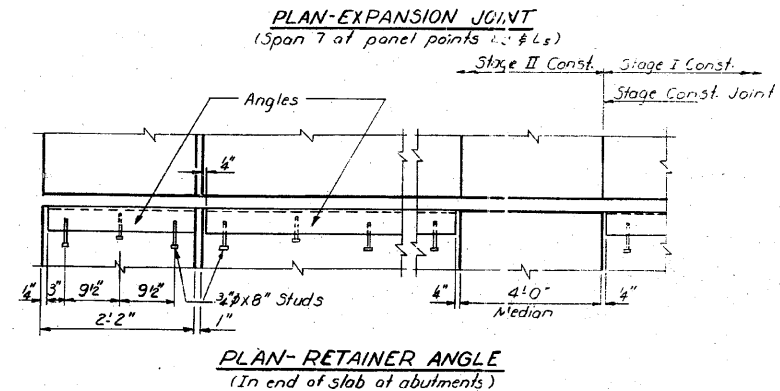
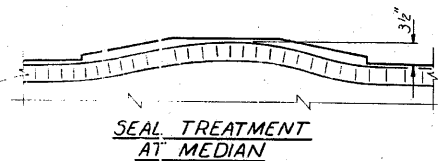
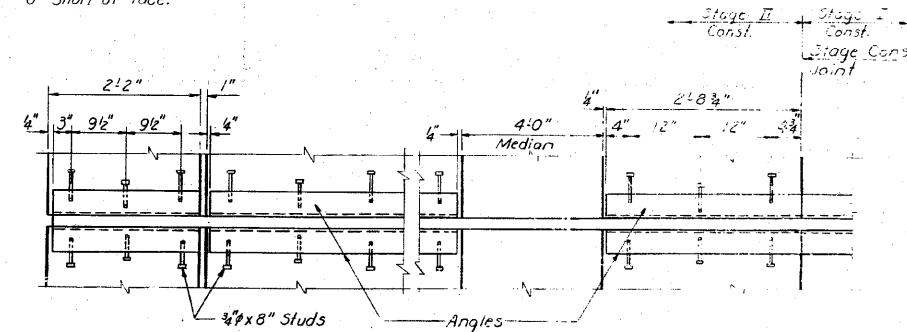
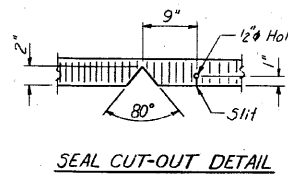
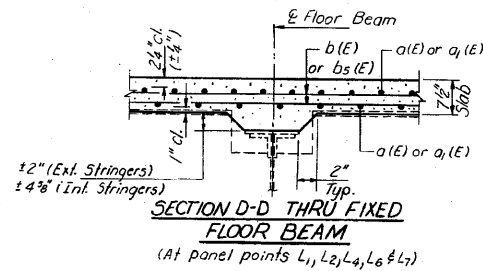
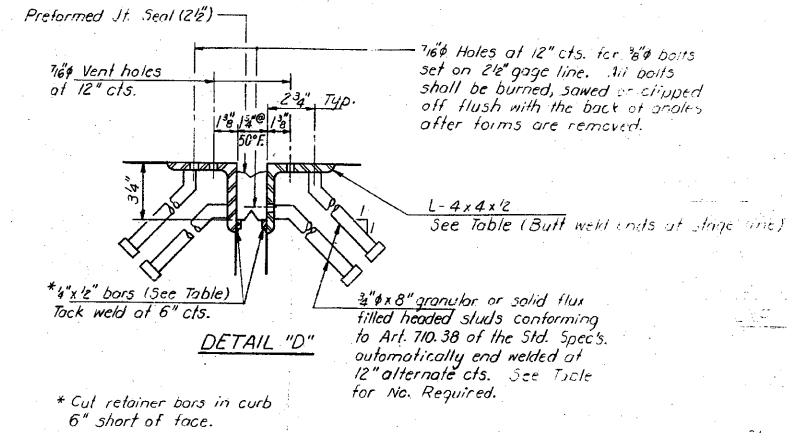
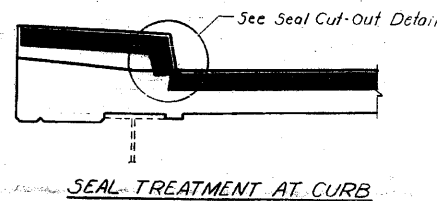
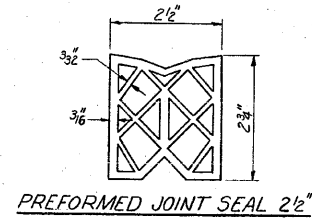
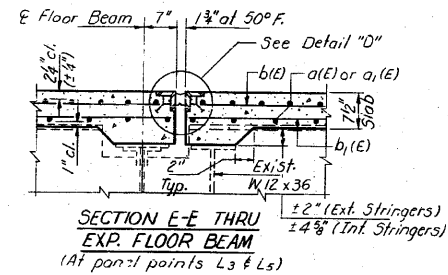


TABLE OF ANGLE AND BAR LENGTHS & NO. STUDS

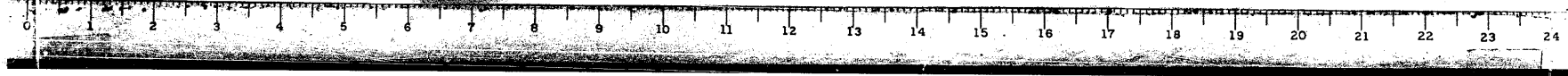
Location	Stage I			Stage II (No. Bd Lanes)			Stage II (So. Bd Lanes)		
	Angle	Bars	No. Studs	Angle	Bars	No. Studs	Angle	Bars	No. Studs
Rdwy. (Sp. 1 & 10)	23°10 1/2"	48	48	23°10 1/2"	48	48	23°10 1/2"	48	48
Curbs	** 2°1 1/2"	** 117 3/4"	18	** 2°1 1/2"	** 117 3/4"	18	** 2°1 1/2"	** 117 3/4"	18
Rdwy. (Span 7)	21°1 3/4"	211 3/4"	84	23°10 1/2"	23°10 1/2"	96	2°18 3/4"	2°18 3/4"	12

** Typical All.
*** Span 7 Only.

DESIGNED: *James J. Blum*
CHECKED: *James J. Blum*
DRAWN: *R. Doty*
CHECKED: *D.G.*

Feb. 4 1981
APPROVED: *James J. Blum*
DIRECTOR OF HIGHWAYS

SUPERSTRUCTURE DETAILS
F.A. RT. 14 SEC. 64-IVB1
ST. CLAIR COUNTY
STA. 281+07.13



FOR INFORMATION ONLY

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PLOT SCALE = 48.000000 / IN.		DRAWN -	REVISED -
PLOT DATE = 8/5/2010		CHECKED -	REVISED -
		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(REHABILITATION PLANS)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	151
				CONTRACT NO. 76882

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	152
SHEET NO. 130 18 SHEETS				

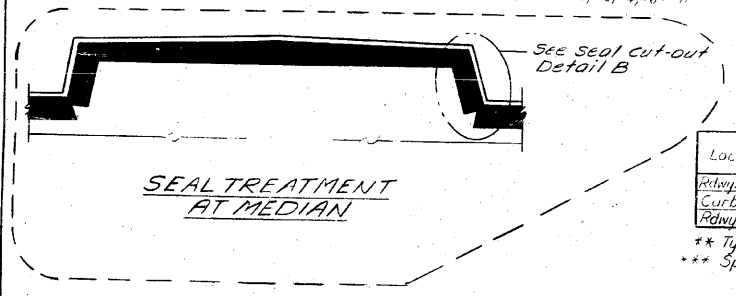
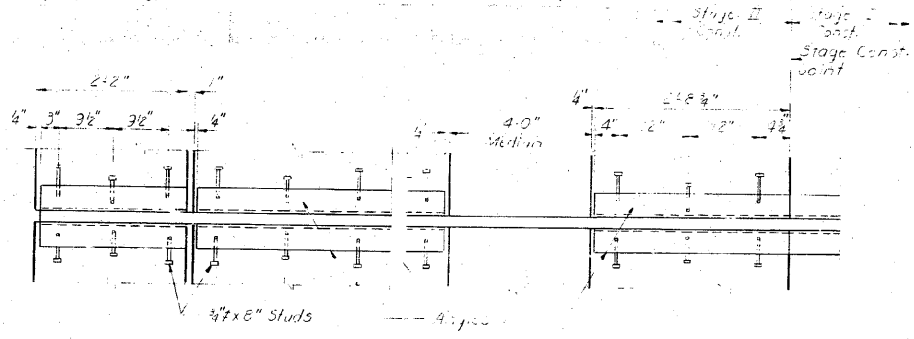
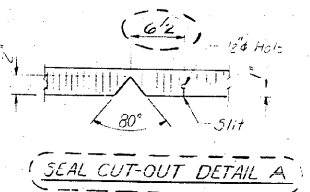
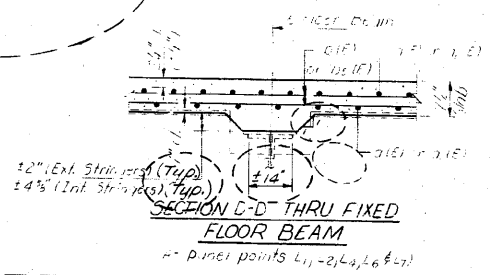
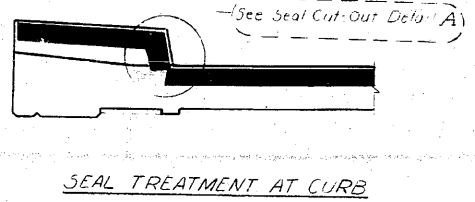
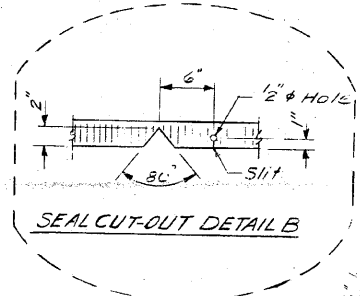
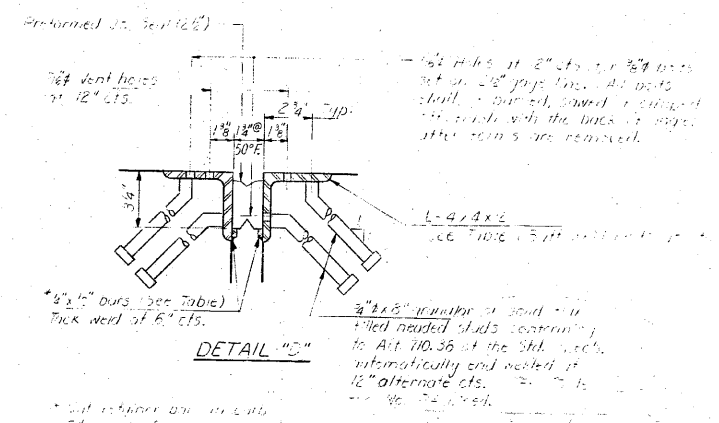
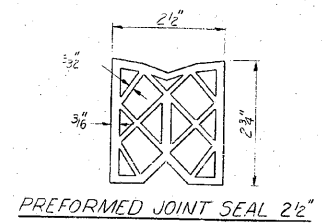
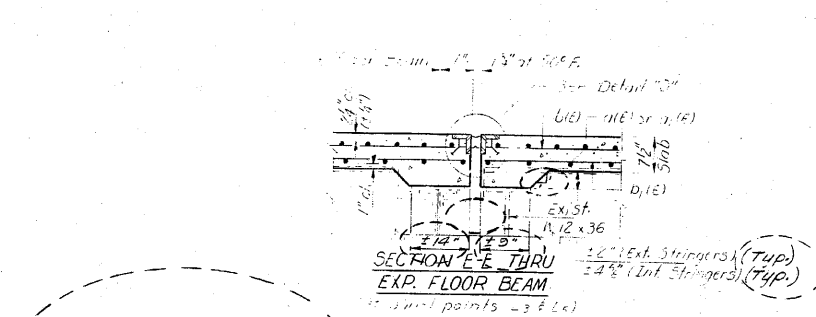
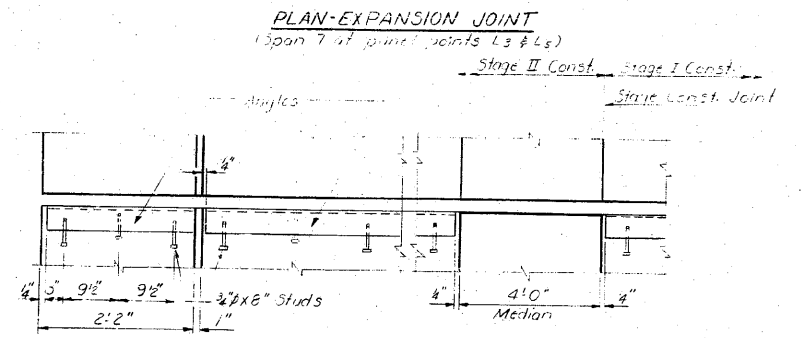


TABLE OF ANGLE AND BAR LENGTHS & NO. STUDS

Location	Stage I		Stage II (No. Bd. Lanes)		Stage II (No. Bd. Lanes)	
	Angle	Bars	Angle	Bars	Angle	Bars
Retn. (Span 7)	23°10'	45	23°10'	45	23°10'	45
Curbs	21°13'	18	23°10'	18	23°10'	18
Retn. (Span 7)	21°13'	84	23°10'	96	23°10'	96

** Typical All
*** Span 7 Only.

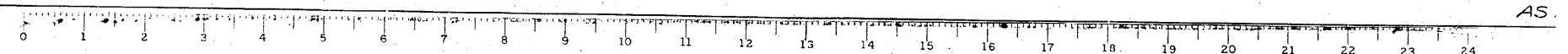


DESIGNED: [Signature]
CHECKED: [Signature]
DRAWN: R. Dofy
CHECKED: DG

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]
DIRECTOR OF HIGHWAYS

Feb. 4 1987

SUPERSTRUCTURE DETAILS
E.A. RT. 14 SEC. 64-1VBR
ST. CLAIR COUNTY
STA. 281+07.13



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
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	PLOT SCALE = 40.000000' / IN.	CHECKED -	REVISED -
CB JOB NO 09021	PLOT DATE = 8/5/2010	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(REHABILITATION PLANS)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

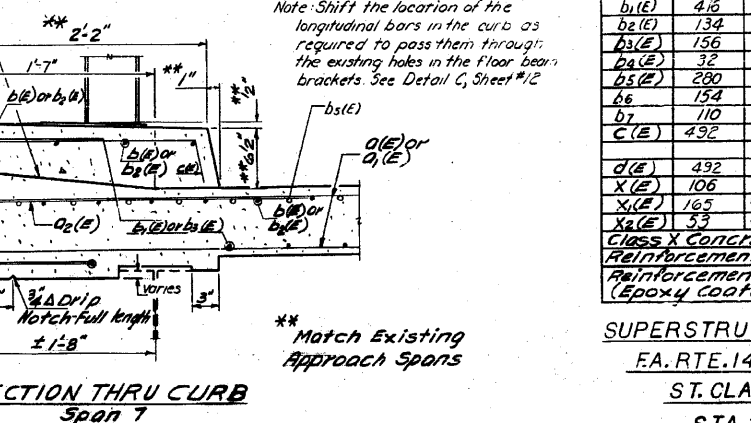
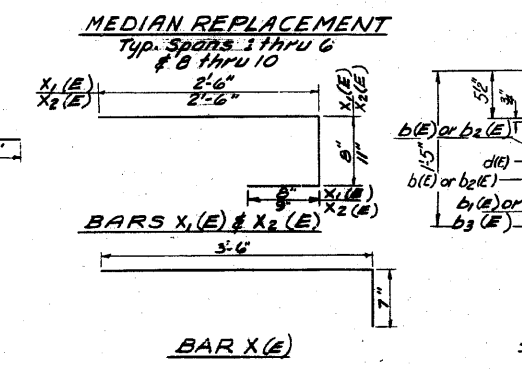
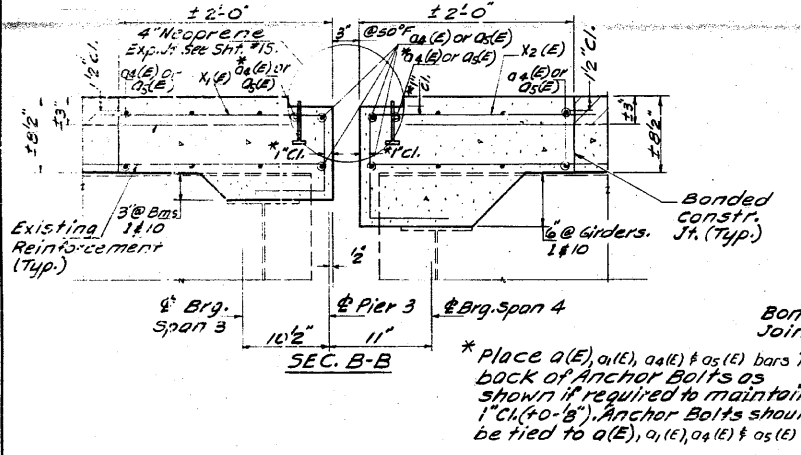
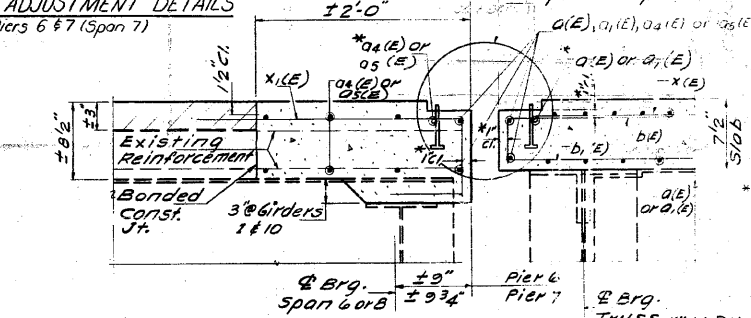
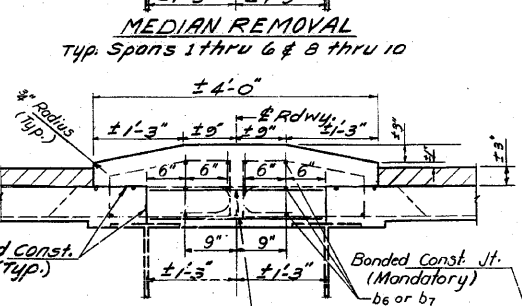
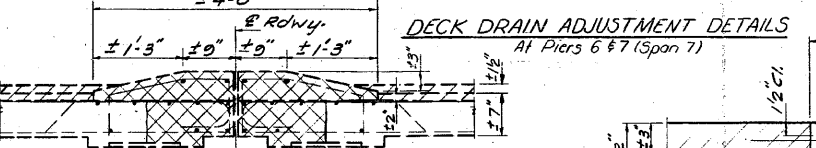
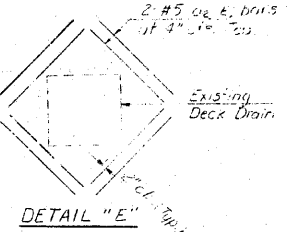
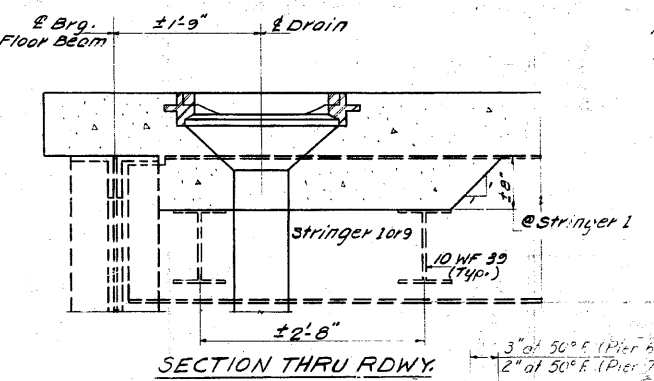
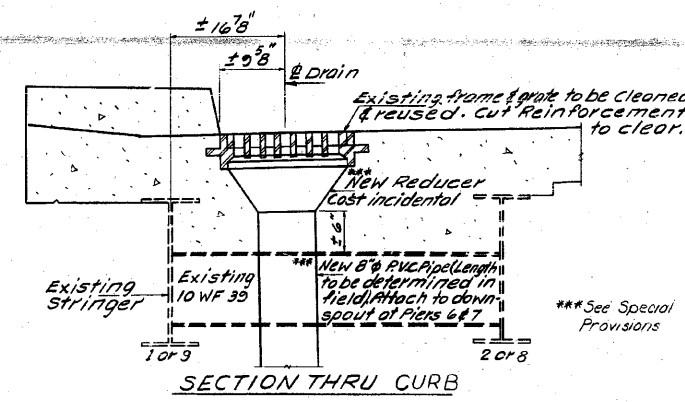
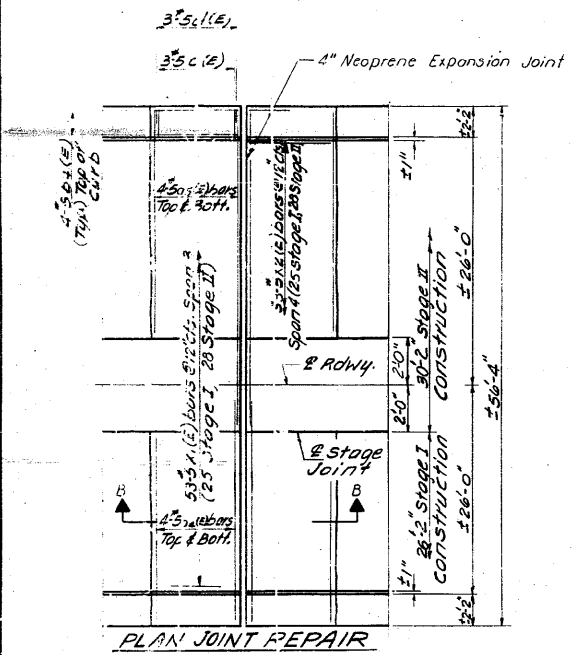
CB Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	152
CONTRACT NO. 76882				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NO. 1	SECTION	COUNT	TOTAL SHEETS	SHEET NO.
1	64-1VBR	25	18	18
SHEET NO. 14				
18 SHEETS				



*** Includes 2' Removal & Replacement @ Spans 4, 6 & 8, Minus Removal & Replacement and 1' Removal and Replacement @ Spans 1 & 2.

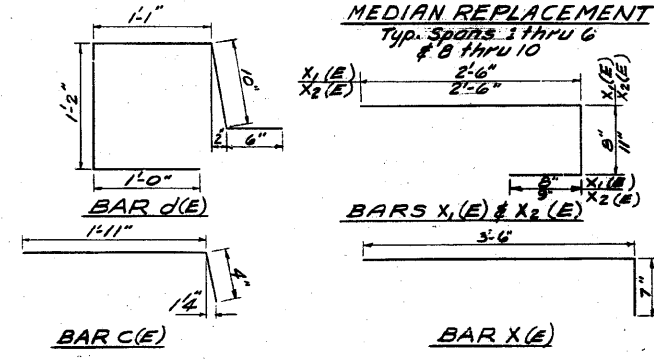
*** BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	740	#5	23'-9"	
a1(E)	740	#5	32'-8"	
a2(E)	32	#5	2'-0"	
a3	2118	#6	2'-3"	
a4(E)	36	#5	2'-19"	
a5(E)	36	#5	30'-1"	
b1(E)	402	#5	30'-0"	
b1(E)	416	#5	23'-0"	
b2(E)	134	#5	30'-3"	
b3(E)	156	#5	20'-9"	
b4(E)	32	#5	1'-9"	
b5(E)	280	#6	14'-0"	
b6	154	#5	29'-0"	
b7	110	#5	30'-0"	
c(E)	492	#5	2'-3"	
d(E)	492	#5	4'-7"	
x(E)	106	#5	4'-1"	
x1(E)	163	#5	3'-10"	
x2(E)	33	#5	4'-2"	
CLASS X CONCRETE				Cu. Yds. 451.9
REINFORCEMENT BARS				Lbs. 13260
REINFORCEMENT BARS (Epoxy Coated)				Lbs. 68280

SUPERSTRUCTURE DETAILS
E.A. RTE. 14 SEC. 64-1VBR
ST. CLAIR COUNTY
STA. 281+07.15

DESIGNED: [Signature]
CHECKED: [Signature]
DRAWN: LH
CHECKED: PG

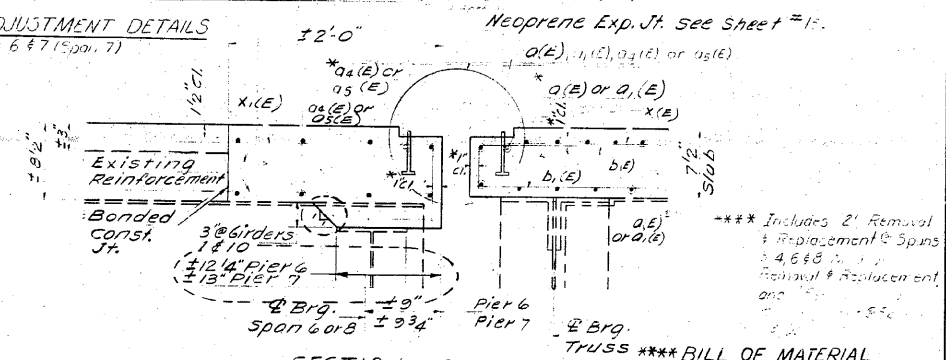
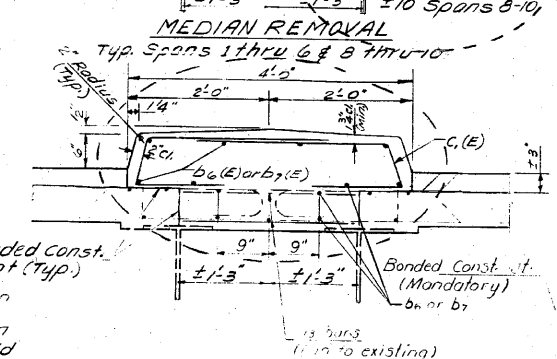
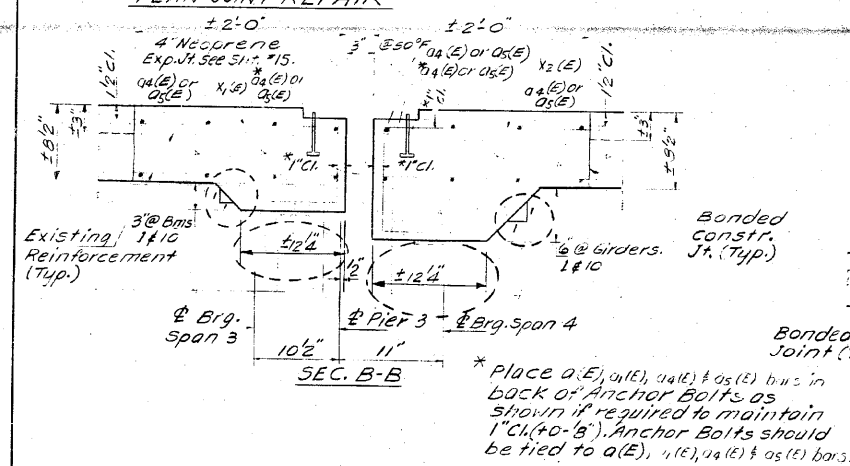
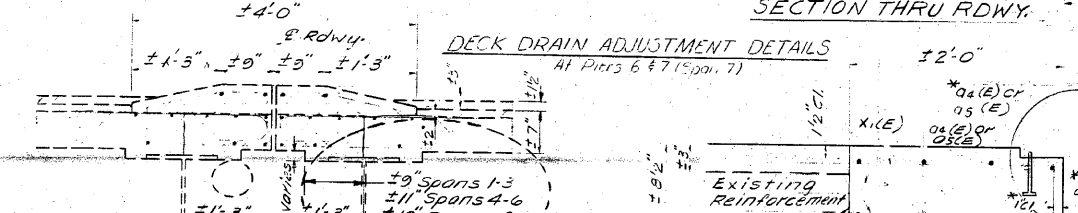
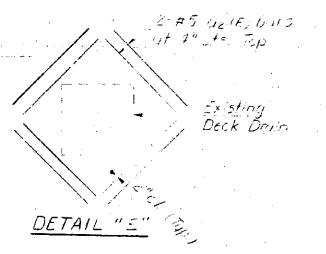
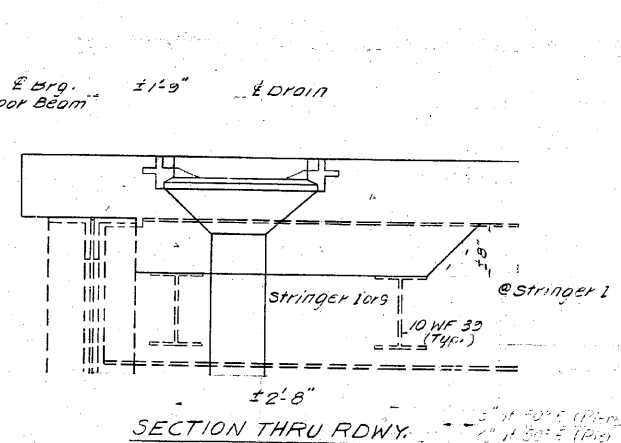
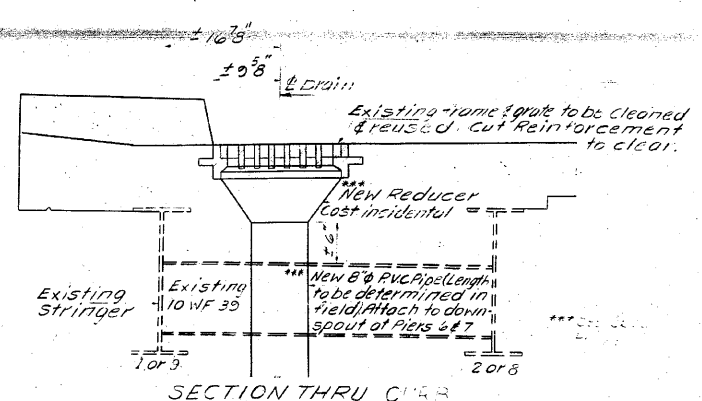
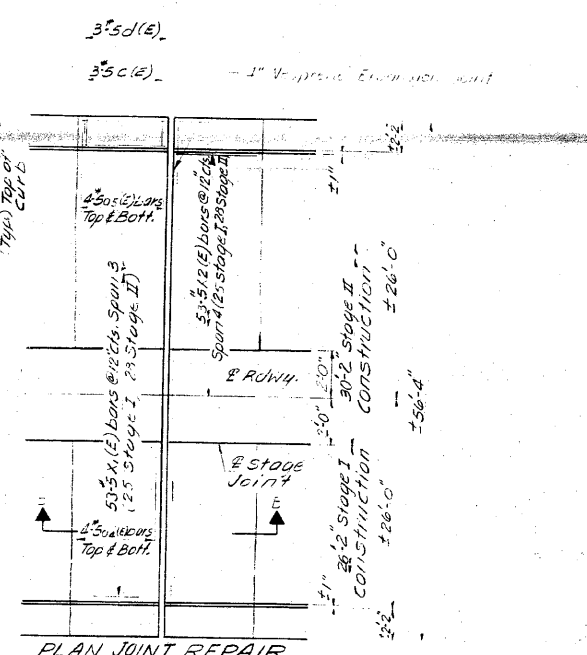
Feb 4 1985
EXAMINED: [Signature]
APPROVED: [Signature]
DIRECTOR OF HIGHWAYS



Match Existing Approach Spans

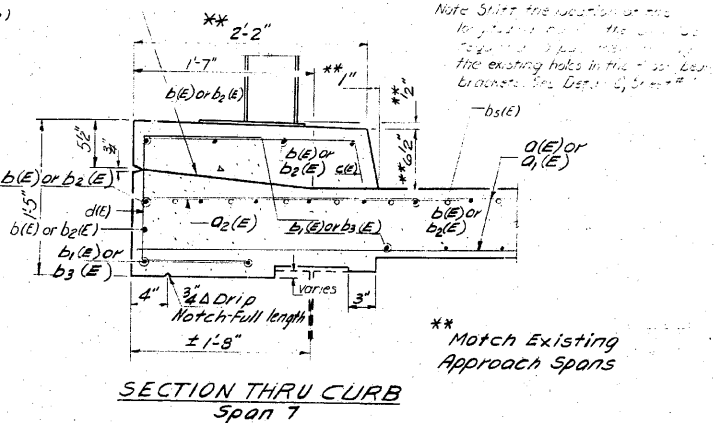
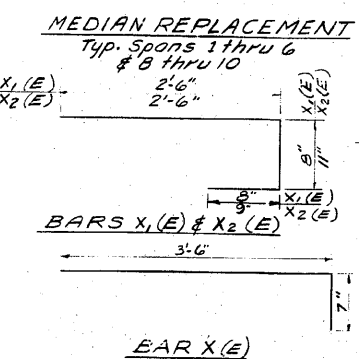
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	REVISION	BY	NO.	SHEET NO.
1/24/85	1	LDH	1	154



*** BILL OF MATERIAL

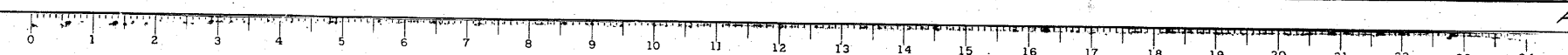
Bar	No.	Size	Length	Shape
a1(E)	740	#5	23'9"	
a1(E)	740	#5	32'8"	
a2(E)	32	#5	2'0"	
a3	2118	#6	2'3"	
a4(E)	33	#5	27'9"	
a5(E)	33	#5	30'0"	
b1(E)	402	#5	30'0"	
b1(E)	416	#5	23'0"	
b2(E)	134	#5	30'3"	
b3(E)	156	#5	20'9"	
b4(E)	32	#5	1'9"	
b5(E)	280	#6	14'0"	
b6	(70)	#5	29'0"	
b7	(30)	#5	30'0"	
C(E)	492	#5	2'3"	
d(E)	492	#5	4'7"	
X(E)	106	#5	4'1"	
X1(E)	165	#5	3'10"	
X2(E)	53	#5	4'2"	
Class X Concrete Cu. Yds.				451.9
Reinforcement Bars Lbs.				10840
Reinforcement Bars (Epoxy Coated) Lbs.				88,280



DESIGNED: [Signature] 1/24/85
 CHECKED: [Signature]
 DRAWN: LH
 CHECKED: DG

EXAMINED: [Signature]
 APPROVED: [Signature]
 DIRECTOR OF HIGHWAYS

SUPERSTRUCTURE DETAILS
 F.A. RTE. 14 SEC. 64-1VBI
 ST. CLAIR COUNTY
 STA 281+07.13



FOR INFORMATION ONLY

CB Coombe-Bloxdorf P.C.
 - CIVIL ENGINEERS -
 - STRUCTURAL ENGINEERS -
 - LAND SURVEYERS -
 Design Firm License No. 184-002703

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	DATE	SCALE	SHEET NO.	TOTAL SHEETS
14	11/18/81	CLAR	23	19
PROJECT NAME			SHEET NO. 15	
ST. CLAIR COUNTY			18 SHEETS	

Joint Size	at 50°F	at 50°F
2"	2"	1 1/2" Min.
2 1/2"	2 1/2"	1 3/4" Min.
4"	3"	1 1/2" Min.

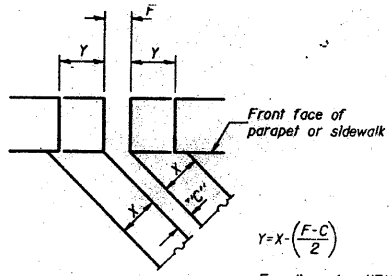
INSTALLATION NOTES

1. Install sponge mands into positions shown to form flap convolution.
2. Install parapet or sidewalk piece trim roadway flap to fit before applying epoxy.
3. Install continuous seal in roadway.
4. Install anchor blocks as indicated.

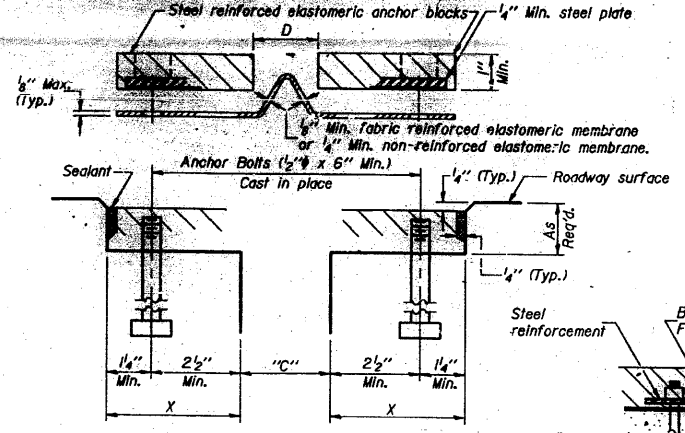
NOTE A: Maximum spacing of anchor bolts shall be 12" centers.

SKIEW LIMITATIONS

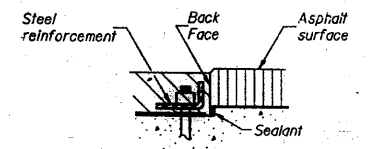
The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed in accordance with dimension "D", might require modifications to insure a minimum clearance of 1/2" from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at 12" cts.



FORMING BLOCKOUT SKETCH



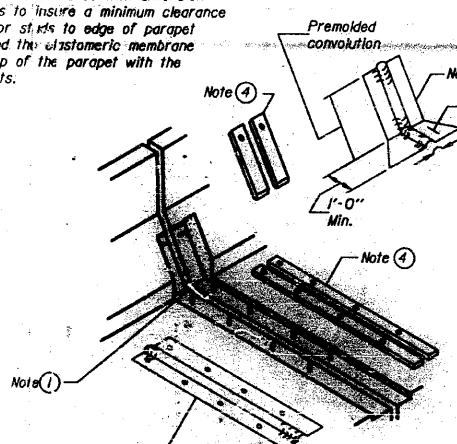
CROSS SECTION



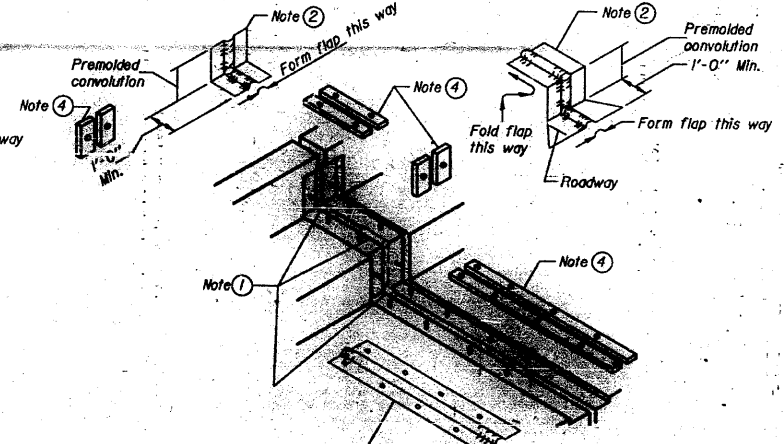
ANCHOR BLOCK REINFORCEMENT WITH ASPHALT SURFACE

GENERAL NOTES

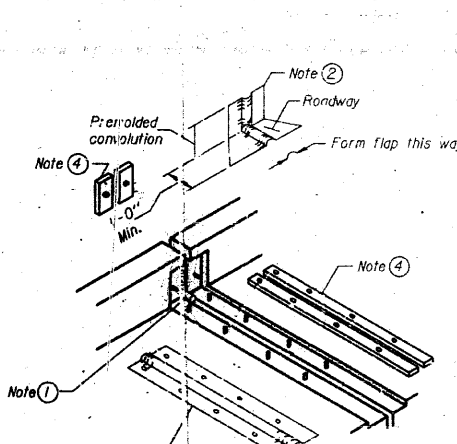
Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane. See Special Provisions. The elastomeric membrane shall be premolded with a single or a double upwarp convolution that will have a "memory" to return to its molded position upon joint closure. The steel reinforcement must extend up the back face of anchor blocks when asphalt surfaces are used but is optional in concrete blockout. The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed. Joint openings shall be adjusted in accordance with Article 503.07(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F. The parapet and curb flaps may be furnished factory vulcanized to the roadway membrane provided the centerline of the convolution is maintained and the process and method meet the approval of the Engineer.



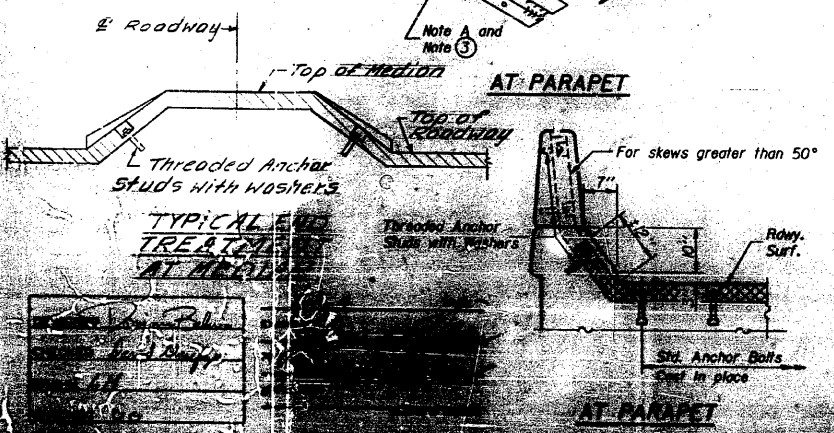
AT PARAPET



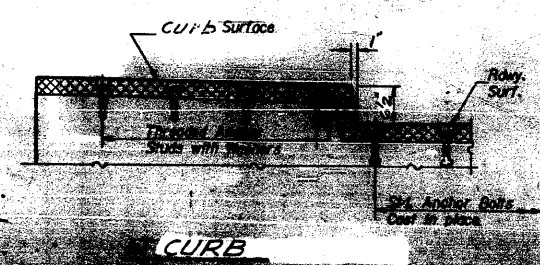
AT CURB OR MEDIAN



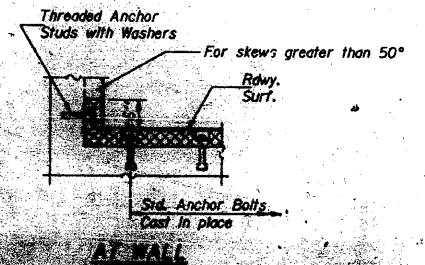
AT WALL



TYPICAL TREATED AT MEDIAN



CURB



AT WALL

CONTINUOUS SEAL TYPE NEOPRENE EXPANSION JOINTS
For 2", 2 1/2" and 4" Movement
EA. RTE. 14 SEC. 64-1VBI
ST. CLAIR COUNTY
STA. 218+07.13

FOR INFORMATION ONLY

CB Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	155
			CONTRACT NO. 76882	

ILLINOIS FED. AID PROJECT

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
...155-0876882-exist-bridge-repair-plans-25.dgn		DRAWN -	REVISED -
PLOT SCALE = 48,000000 // IN.		CHECKED -	REVISED -
PLOT DATE = 8/5/2010		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS	
(REHABILITATION PLANS)	
SCALE:	SHEET NO. OF SHEETS STA. TO STA.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
FA 14	64-IVBR	ST. CLAIR	25	150
18 SHEETS				

Joint Size	Y	Z	Min.
2"	2"	2"	1/2" Min.
2 1/2"	2 1/2"	2 1/2"	3/4" Min.
4"	3"	2 1/2"	1" Min.

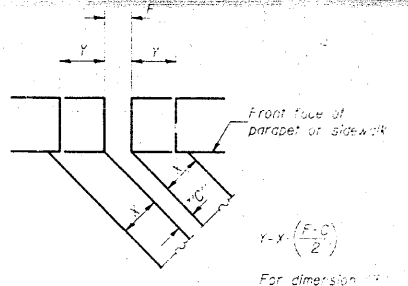
INSTALLATION NOTES

1. Install sponge mat over line and install form flap convolution.
2. Install parapet or sidewalk form flaps to fit before casting concrete.
3. Install continuous seal in roadway.
4. Install anchor bolts as shown.

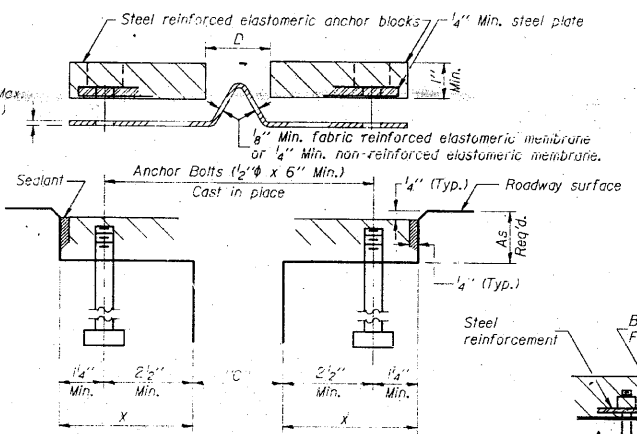
NOTE A: Maximum spacing of anchor bolts shall be 3 centers.

SKREW LIMITATIONS

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skew. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed in accordance with dimension "D", might require modification to insure a minimum clearance of 1/2" from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at 12" cts.



FORMING BLOCKOUT SKETCH



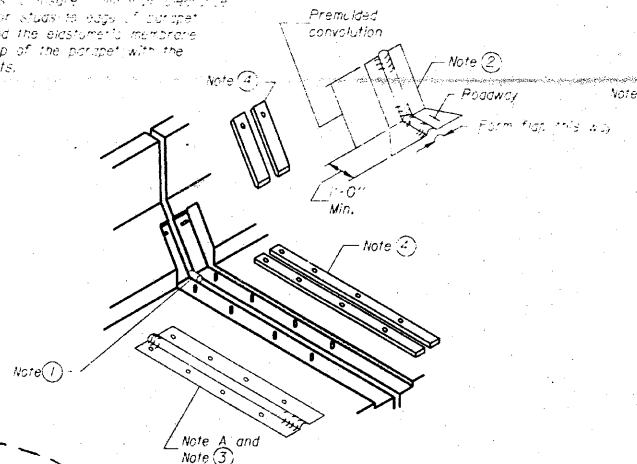
CROSS SECTION

ANCHOR BLOCK REINFORCEMENT WITH ASPHALT SURFACE

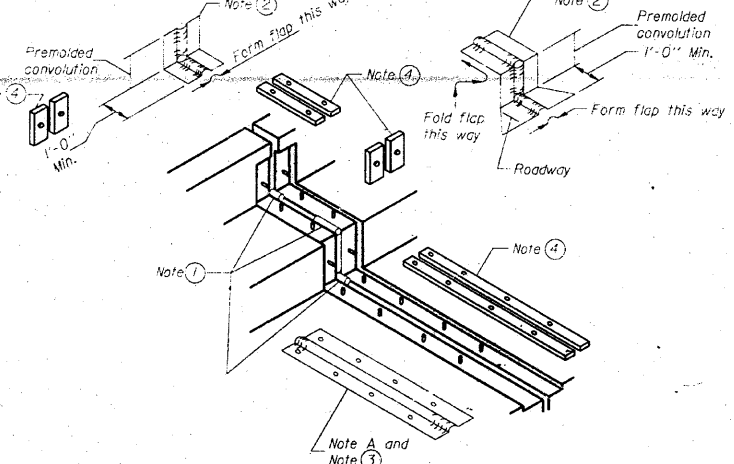
GENERAL NOTES

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane. See Special Provisions. The elastomeric membrane shall be pre-molded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure. The steel reinforcement must extend up the back face of anchor blocks when asphalt surfaces are used but is optional in concrete blockout. The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed. Joint openings shall be adjusted in accordance with Article 503.07(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F. The parapet and curb flaps may be furnished factory vulcanized to the roadway membrane provided the centerline of the convolution is maintained and the process and method meet the approval of the Engineer.

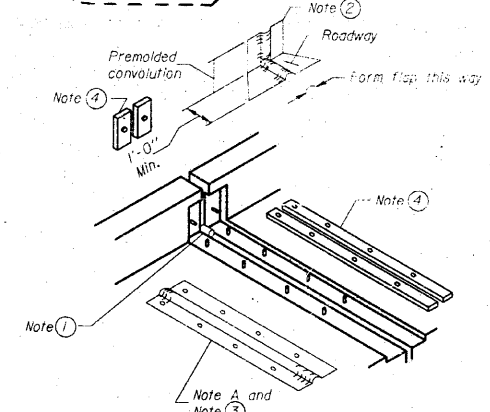
Anchor bolts, washers and nuts, to be plated against corrosion in accordance with the special provisions, shall be zinc-coated by the mechanical plating method conforming to ASTM B 695, Class 50. Zinc-coated nuts shall be tapered oversize in accordance with the requirements of AASHTO M 291 and shall meet the supplementary requirements S1.1 thru S1.6 of the same specifications for lubricant and testing.



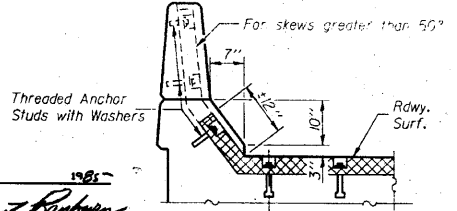
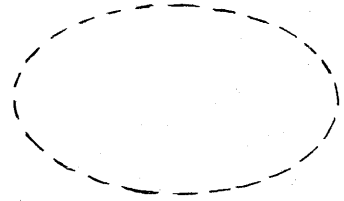
AT PARAPET



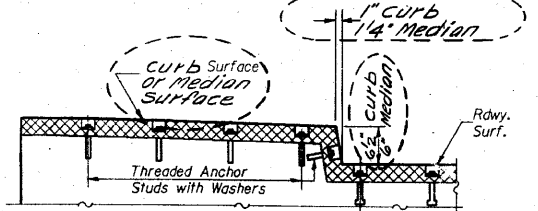
AT CURB OR MEDIAN



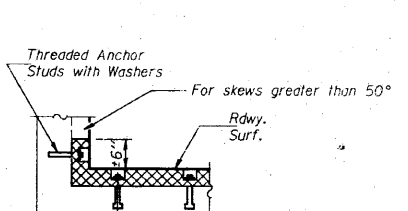
AT WALL



AT PARAPET



AT CURB OR MEDIAN



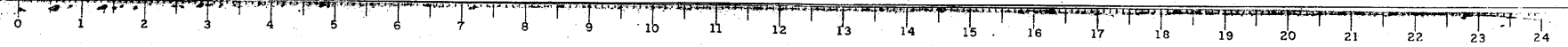
AT WALL

CONTINUOUS SEAL TYPE NEOPRENE EXPANSION JOINTS
For 2", 2 1/2" and 4" Movement
FA. RTE. 14 SEC. 64-IVB1
ST. CLAIR COUNTY
STA. 218+07.13

DESIGNED: *James J. Redman*
CHECKED: *James J. Redman*
DRAWN: *LH*
CHECKED: *DG*
EJ-CS 12-1-83

EXAMINED: *James J. Redman*
PAID: *James J. Redman*
PROVED: *James J. Redman*
DIRECTOR OF HIGHWAYS

AS REVISED 3-28-86 R.E.A.



FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
...N56-D876882-exist-bridge-repair-plans-26.dgn		DRAWN -	REVISED -
PLOT SCALE = 40,000,000 / IN.		CHECKED -	REVISED -
PLOT DATE = 8/5/2010		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(REHABILITATION PLANS)
SCALE: SHEET NO. OF SHEETS STA. TO STA.

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

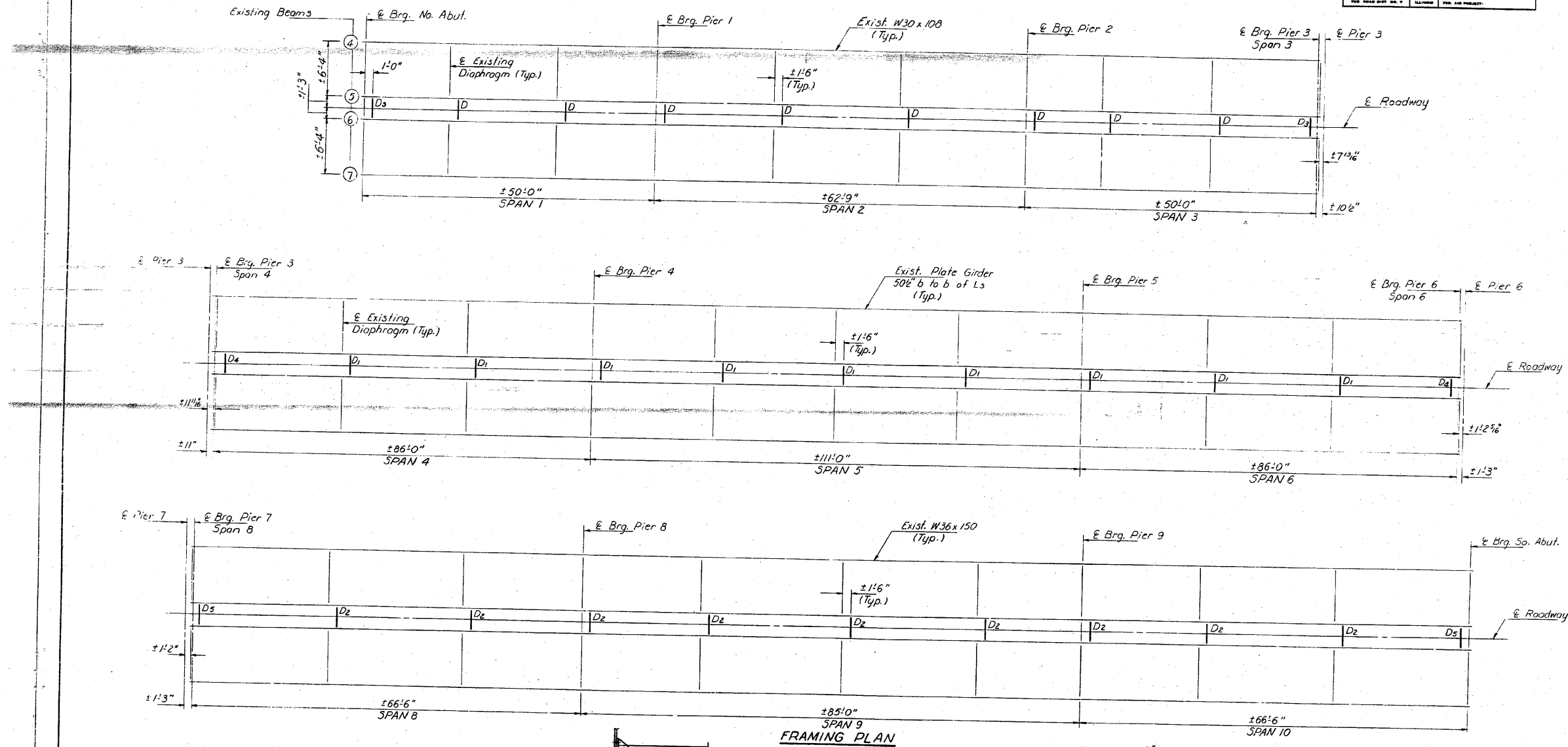
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	156
				CONTRACT NO. 76882

ILLINOIS FED. AID PROJECT

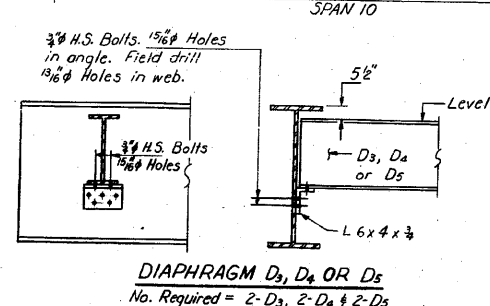
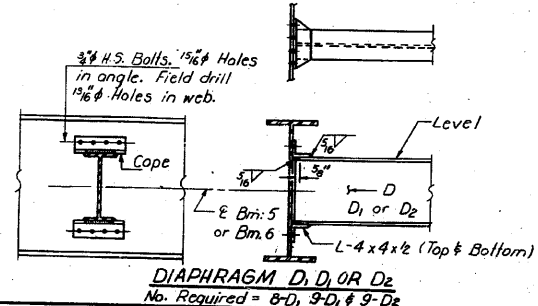
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	64-IVBR	ST. CLAIR	23	20

SHEET NO. 16
18 SHEETS



FRAMING PLAN



STRUCTURAL STEEL DETAILS
SPANS 1 THRU 6 AND 8 THRU 10
FA. RT. 14 SEC. 64-IVB1
ST. CLAIR COUNTY
STA. 281+07.13

DESIGNED: *Richard Balice*
CHECKED: *David Deffen*
DRAWN: *R. Doty*
CHECKED: *D.G.*

EXAMINED: *James J. Hoffman*
APPROVED: *James J. Hoffman*
DIRECTOR OF HIGHWAYS

FEB. 4 1981

FOR INFORMATION ONLY

FILE NAME =	USER NAME = CFC..	DESIGNED -	REVISED -
...157-DB76882-exist-bridge-repair-plans	27.dgn	DRAWN -	REVISED -
	PLOT SCALE = 40.000000 "/ IN.	CHECKED -	REVISED -
CB JOB NO 09021	PLOT DATE = 8/5/2010	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

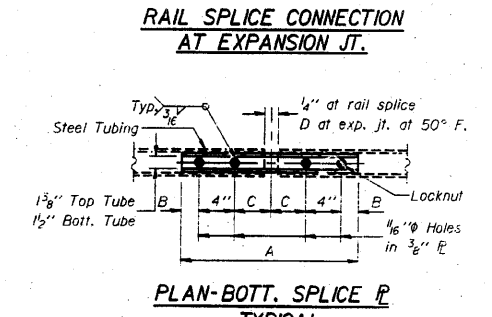
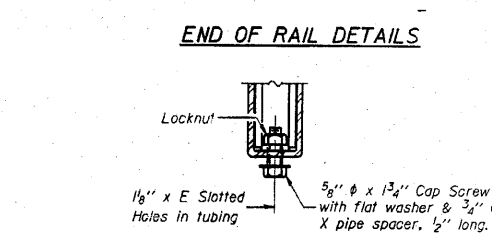
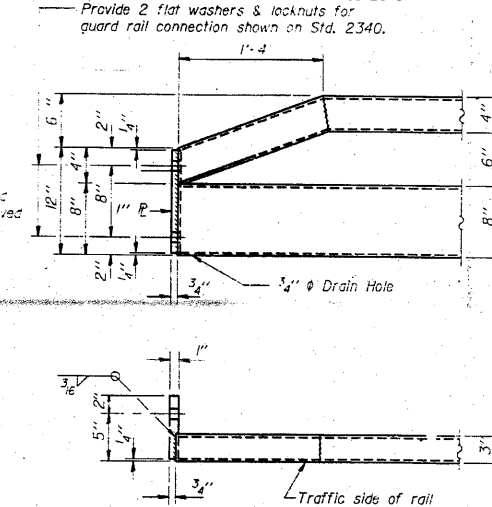
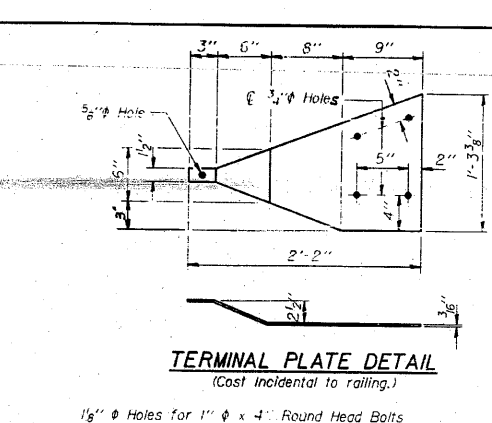
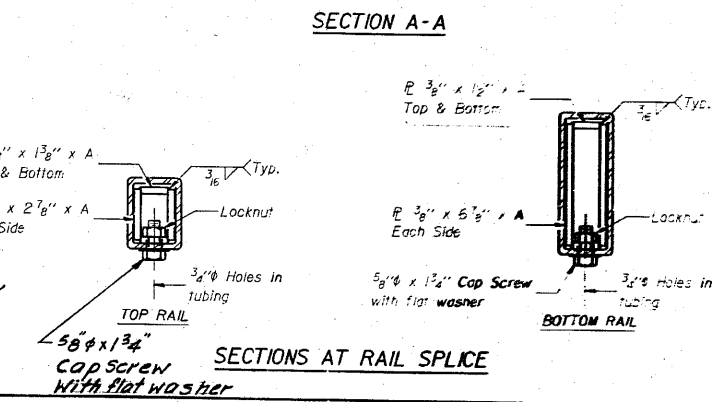
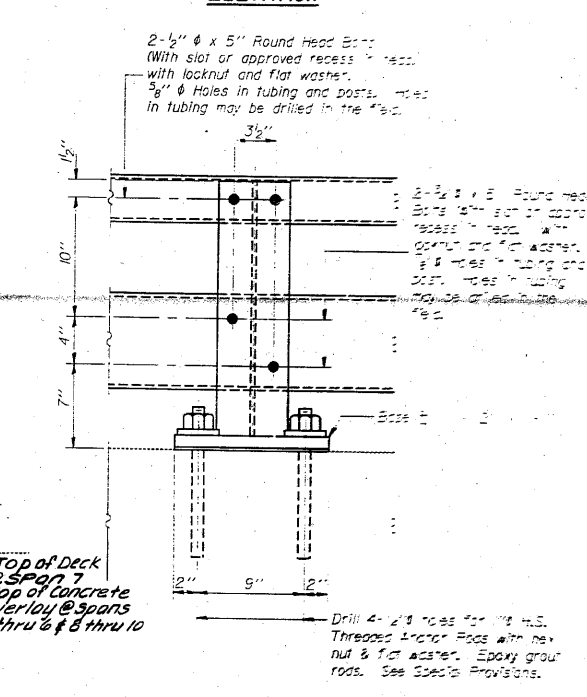
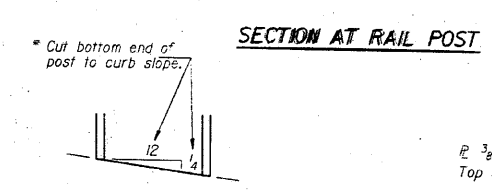
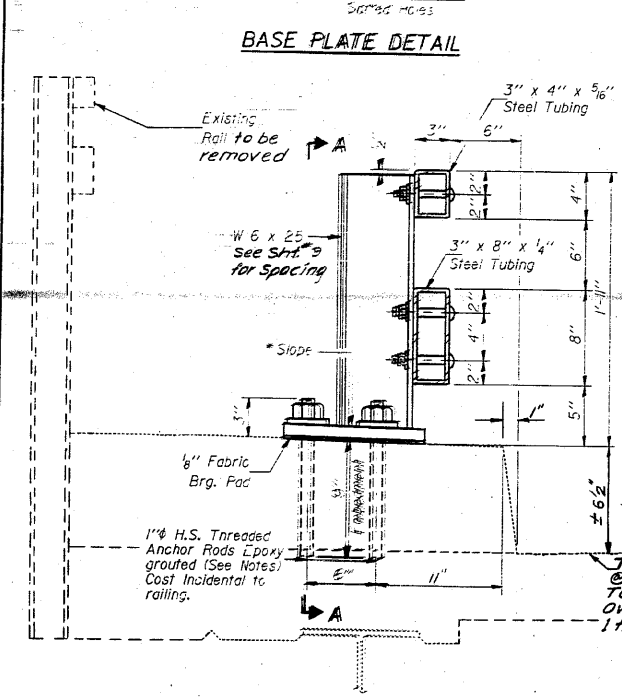
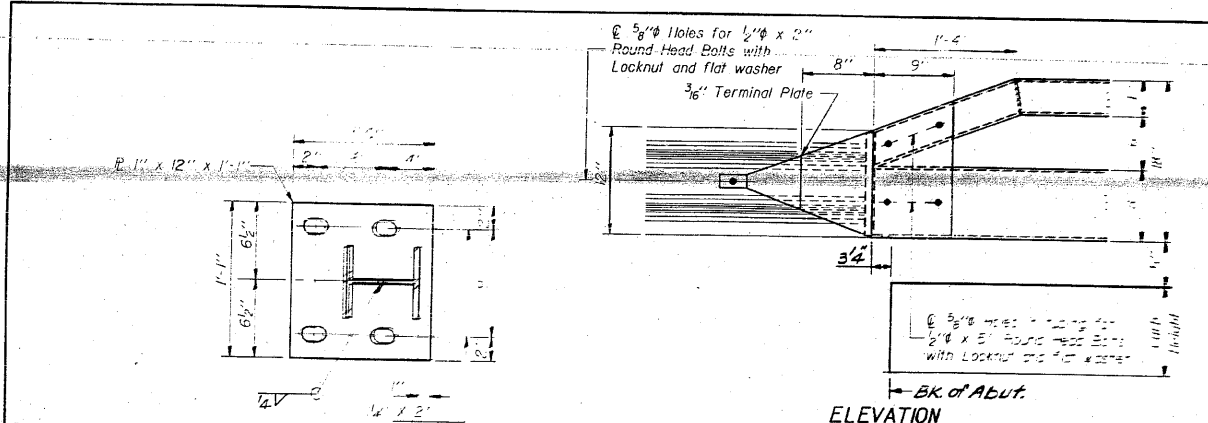
SN 082-0030 PLANS
(REHABILITATION PLANS)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	157

CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT



NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500, Grade B, Structural Steel Tubing.
All other steel shapes and plates shall conform to the requirements of AASHTO M-183 except posts and plates shall conform to the requirements of AASHTO M-223, Grade 50.
Bolts, cap screws and nuts shall conform to the requirements of ASTM designation A-307 except that threaded rods, nuts and washers shall conform to AASHTO M-182.
All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.
All posts, railing, rail splices and anchor rods shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized rail shall not be painted.
Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAIL RETROFIT.
All field drilled holes shall be coated with an approved zinc rich paint before erection.
Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
STEEL RAIL RETROFIT expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
Expansion joint width shall be D at 50° F and shall be adjusted for other temperatures according to Article 503.07(c) of the Standard Specifications.
The Contractor shall load test 5% of the 1" diameter threaded anchor rods in the presence of the Engineer. The equipment and method used shall meet the approval of the Engineer. Pull out load shall be 16,500 lbs. per rod after epoxy has set. For each anchor that fails the test, two (2) more anchors, selected by the Engineer, shall be tested. Each anchor that fails shall be reset in epoxy and retested until it passes the test. (See Bridge Special Provision for Epoxy Grouting of Anchor Rods and Bolts.)
Nuts for 1" threaded rods connecting the base plate to the concrete shall be tightened to a snug fit and given an additional 1/8 turn.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Rail Retrofit	Lin. Ft.	1807

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 1/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1 1/4"	1'-8"	2"	4"	-

T = Total movement at expansion joint as shown on the design plans.

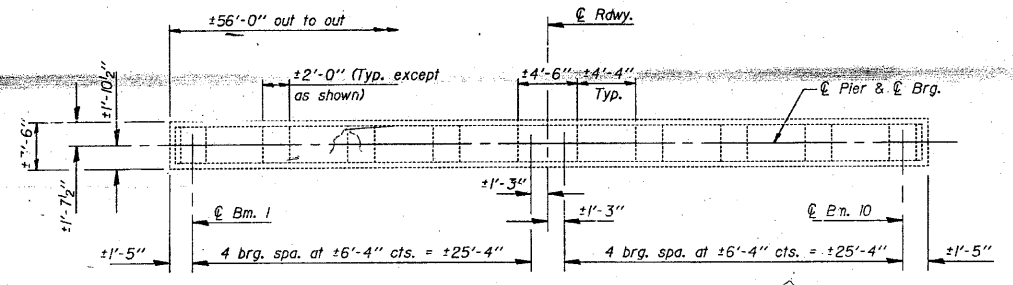
STEEL RAIL RETROFIT
EA. RTE. 14 SEC. 64 IVBI
ST. CLAIR COUNTY
STA. 281 + 07.13

DESIGNED: [Signature]
CHECKED: [Signature]
DRAWN: [Signature]
CHECKED: DG

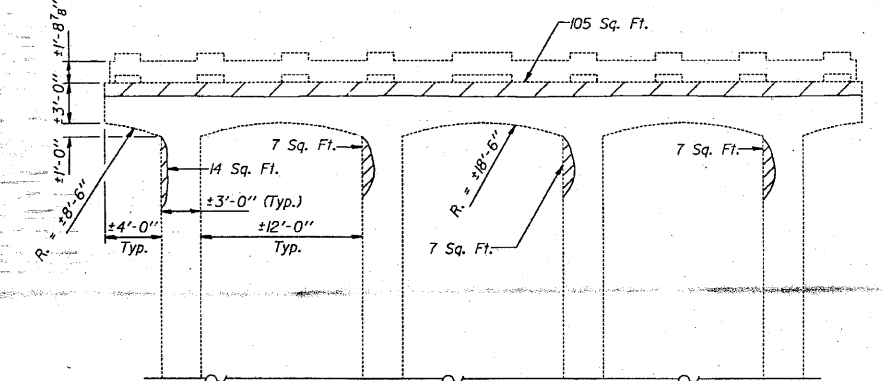
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO. 18
64-14	64-14BR	ST. CLAIR	25	22
PROJECT NO. 1		PROJECT NAME		

EXHIBIT 11 8-D06

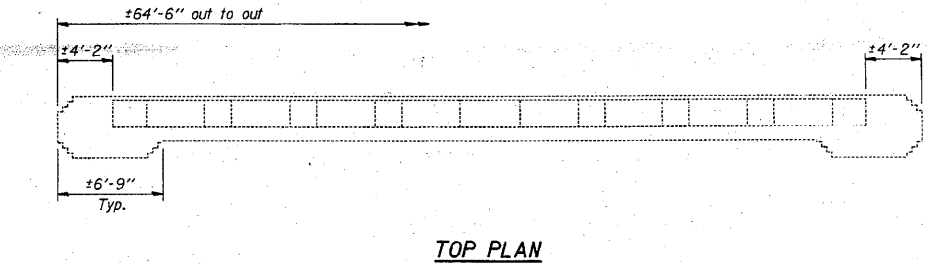


TOP PLAN

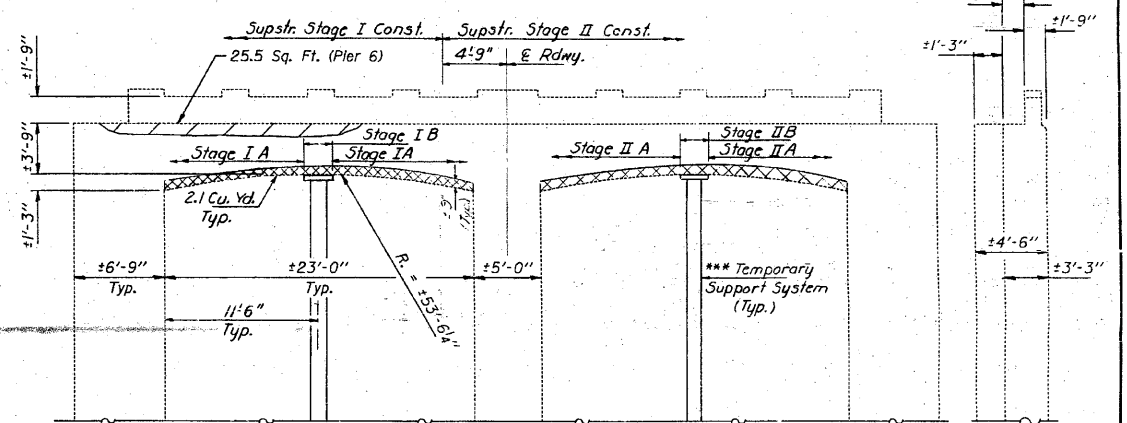


ELEVATION-PIER 3
(Looking North)

END VIEW



TOP PLAN



ELEVATION-PIER 6 & PIER 7
(Looking North)

END VIEW

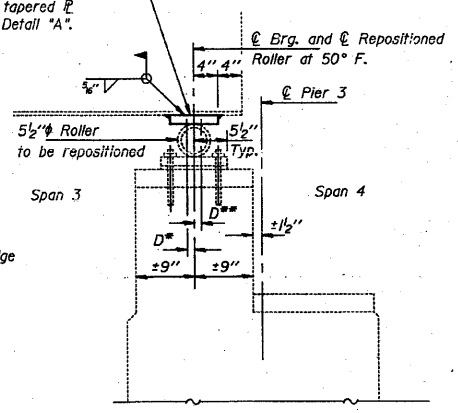
Repair Concrete Structures
Concrete Removal

Note: Remove ±9" of deteriorated concrete from bottom of caps at Piers 6 and 7. Clean exposed reinforcement bars and pour new Class X Concrete. Stage IA and IB are to be done during Superstructure Stage I Construction. IA to be done first and IB to be done second. Stage IIA and IIB are to be done during superstructure Stage II Construction. IIA to be done first and IIB to be done second.

*** To be in place prior to undertaking any concrete removal. The Temporary Support System shall be designed by the Contractor and the drawings submitted to the Engineer for approval. The Contractor may submit an alternate procedure to provide temporary support for the pier caps.

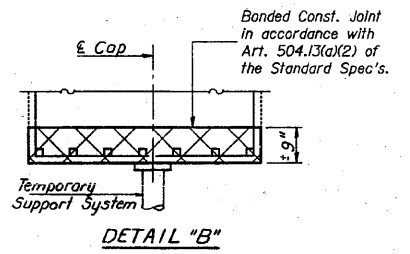
Temporary Support System shall be removed prior to Stage IB & Stage IIB Construction.

Existing 1/2" x 8" x 10 1/2" plate to be removed. No Salvage. New 1/2" x 8" x 10 1/2" tapered plate (Typ. all beams) See Detail "A".



DETAIL "A"

SECTION THRU PIER 3
(Showing bearing plate removal and replacement in Span 3)



DETAIL "B"

Notes on Repositioning of Rollers:
D* (Side of brg. toward fixed brg.)
D* = 1/8" per 100' of expansion for every 15° fall below the normal temperature of 50° F.
D** (Side of brg. away from fixed brg.)
D** = 1/8" per 100' of expansion for every 15° rise above the normal temperature of 50° F.

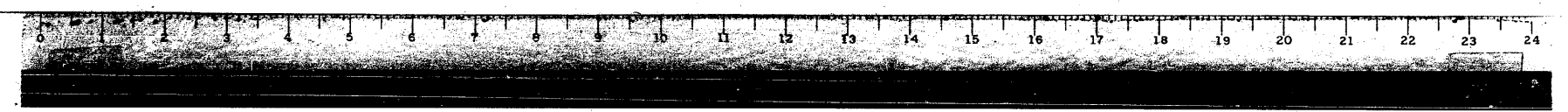
Notes:
Procedure for Repositioning Bearings:
1. Apply jacking force to raise the beam ends to a maximum of 1/8". @ reaction per beam = 18.5 K.
2. Remove existing top bearing plate.
3. Reposition roller and rotate 90°.
4. Install new top bearing plate and center over bottom bearing plate.
5. Remove jacking force.
Note: Bearings are to be repositioned prior to longitudinal joint reconstruction. See sheet #2 for staging.

BILL OF MATERIAL

Item	Unit	Total
Repair Concrete Structures	Sq. Ft.	165
Jack and Reposition Bearings	Each	10
Structural Steel	Lbs.	360
Class X Concrete	Cu. Yd.	8.4
Concrete Removal	Cu. Yd.	8.4
Temporary Support System	L. Sum	1

PIER REPAIR DETAILS
F.A. RT. 14 SEC. 64-NB1
ST. CLAIR COUNTY
STA. 281+07.13

DESIGNED: [Signature]
CHECKED: [Signature]
DRAWN: R. Doty
CHECKED: P. G.
APPROVED: [Signature]
DIRECTOR OF HIGHWAYS



FOR INFORMATION ONLY

Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-14BR	ST. CLAIR	259	159

CONTRACT NO. 76882
ILLINOIS FED. AID PROJECT

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PLOT DATE = 8/5/2010		DATE - / /	REVISED -

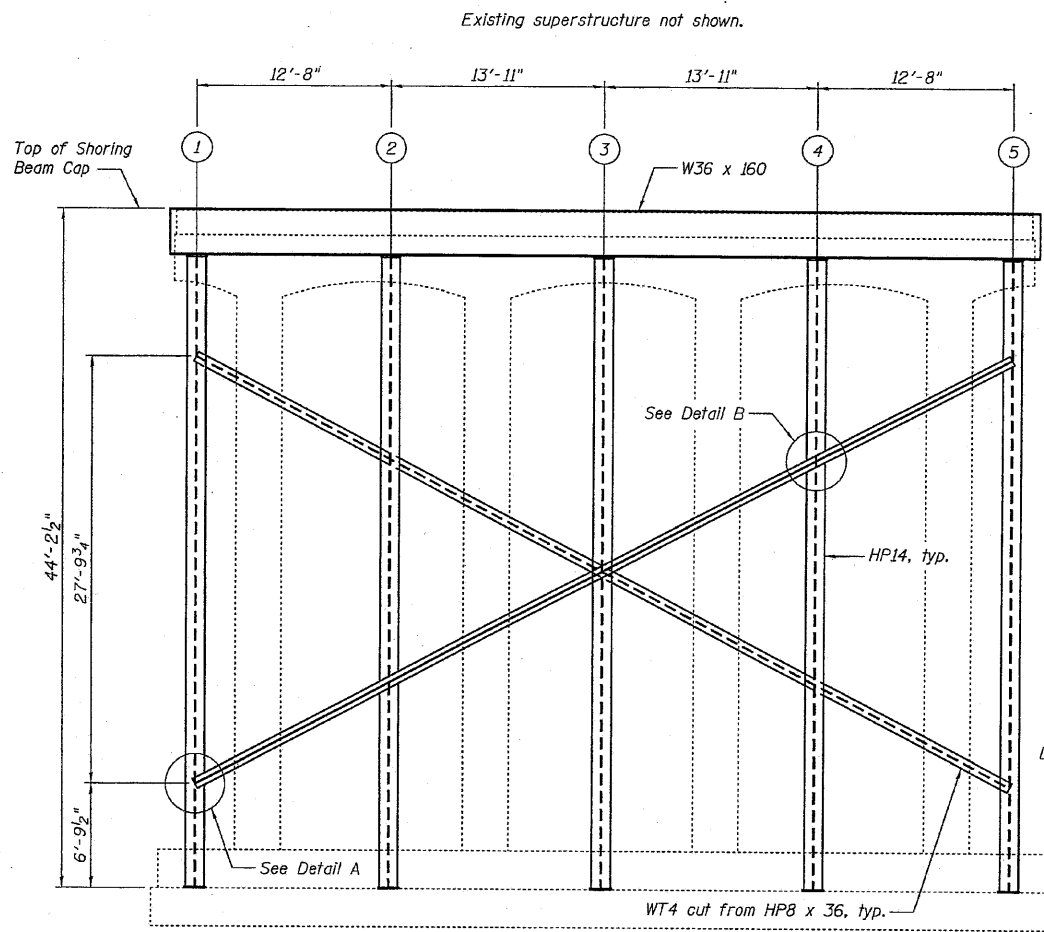
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(REHABILITATION PLANS)

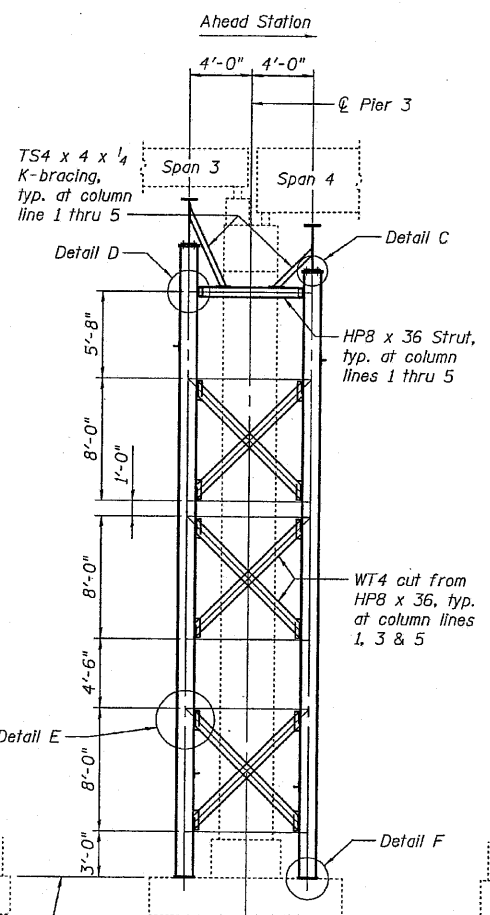
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

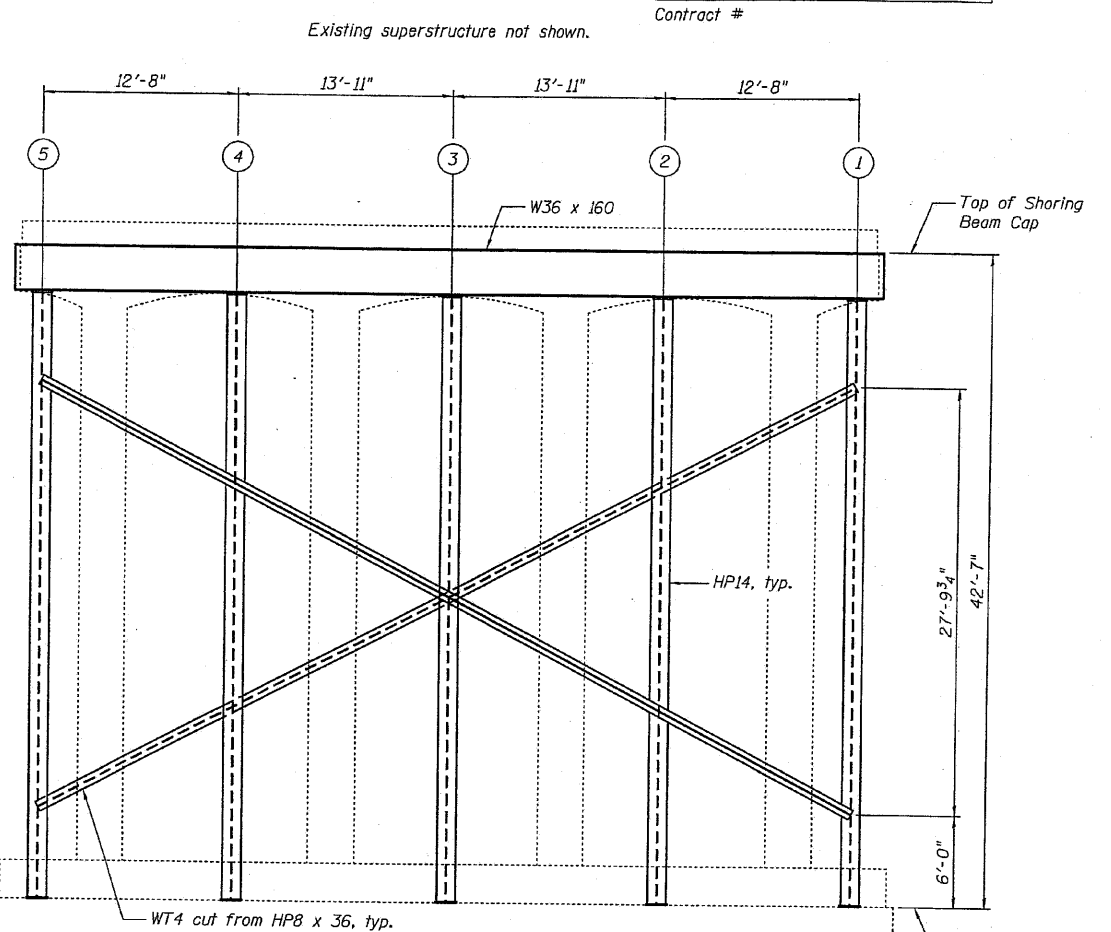
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 14	64-IVBI	ST. CLAIR		2 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract #	



NORTH FACE OF PIER 3
Looking Ahead Station

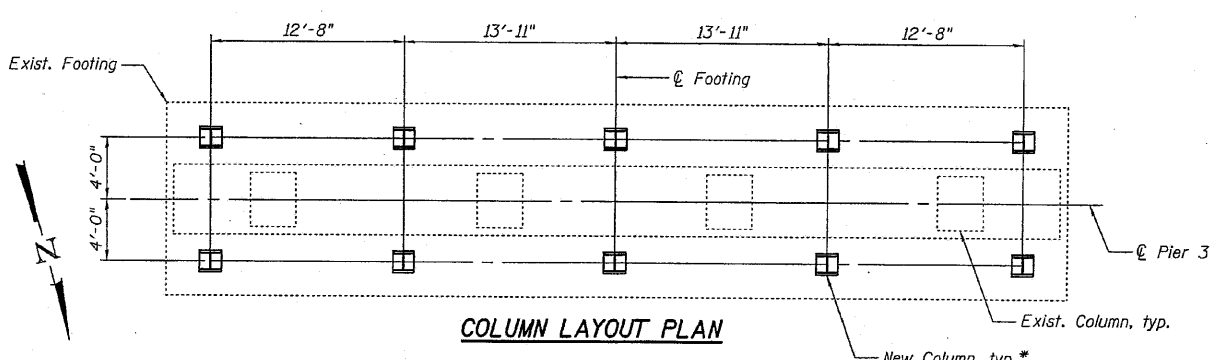


END VIEW



SOUTH FACE OF PIER 3
Looking Back Station

Note:
See sheet 2 of 2 for details A, B, C, D, E and F.
See sheet 2 of 2 for K-bracing details.



COLUMN LAYOUT PLAN

THE SHORING TOWER COLUMNS AND DETAILS ASSUME AN 8 1/2" GAP BETWEEN TOP OF SHORING CAP AND BOTTOM OF ROADWAY GIRDERS. ADJUSTMENTS MAY BE NEEDED IF BEARING DEPTH (ROLLER, SOLE PLATE AND BASE PLATE) IS DIFFERENT FROM ABOVE.

GENERAL NOTES

All structural metalwork for shoring towers shall conform to the requirements of ASTM A36 or ASTM A709, Grade 36 or better.
High strength bolts shall conform to the requirements of ASTM A325.
Column anchor bolts shall comply with the requirements of ASTM F1554.

PIER 3 SHORING DETAILS - 1
IL. ROUTE 3 OVER DUPONT CANAL AND RAILROAD
F.A. ROUTE 14 - SECTION 64-IVBI

DESIGNED	MEL
CHECKED	RLM
DRAWN	PRC
CHECKED	MEL

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES



* Remove ground cover to expose the top of footing across the entire width. Power wash to provide a clean surface. Grind footing concrete at column base locations to provide a smooth and level surface.

FOR INFORMATION ONLY

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CB JOB NO 09021	PLOT DATE = 8/5/2010	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.

SN 082-0030 PLANS
(SHORING TOWER PLANS)

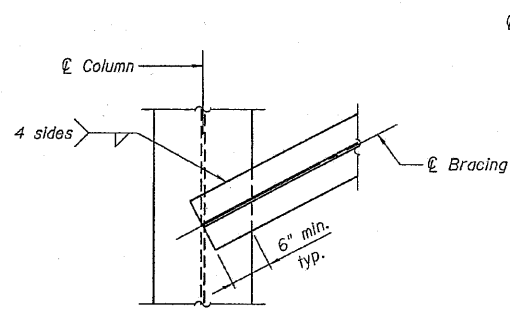
Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	160
				CONTRACT NO. 76882

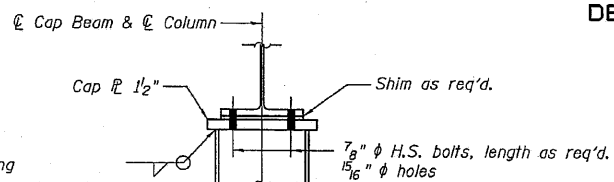
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

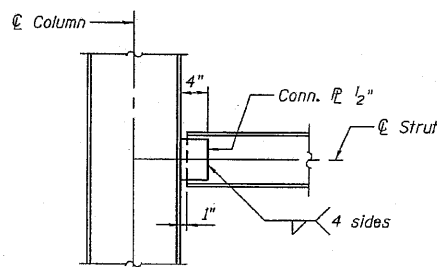
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract #	



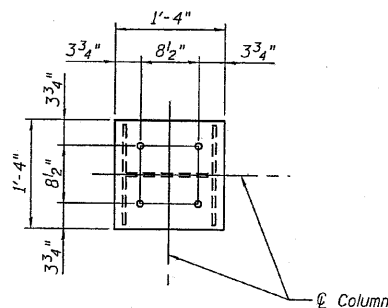
DETAIL A



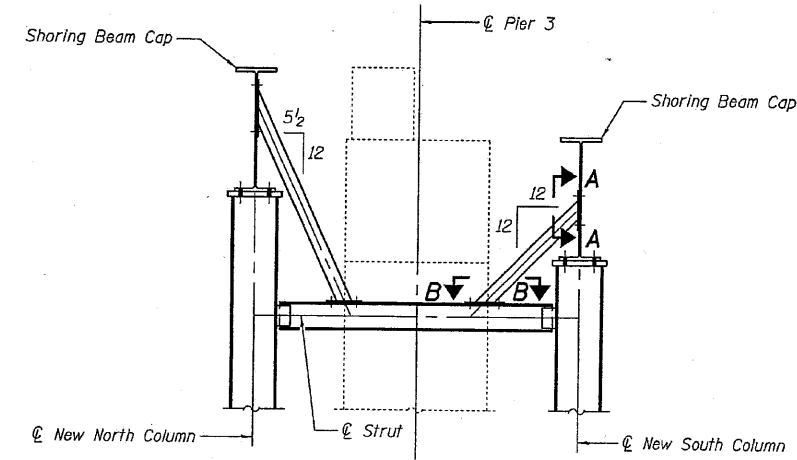
DETAIL C



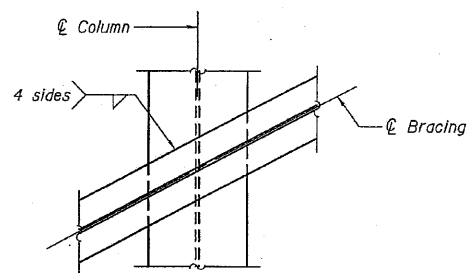
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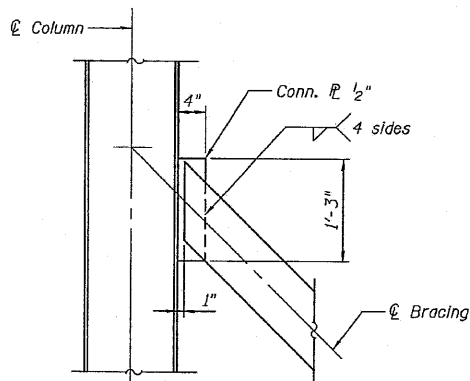
PLAN OF CAP PLATE



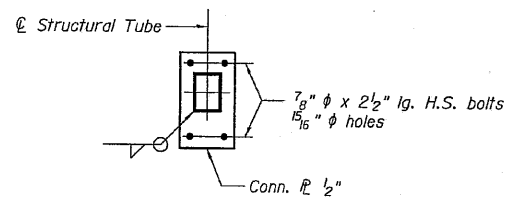
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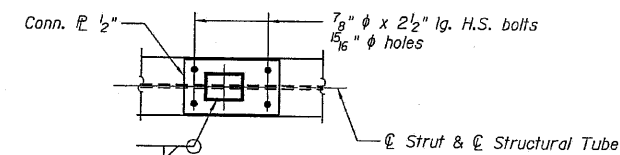
DETAIL B



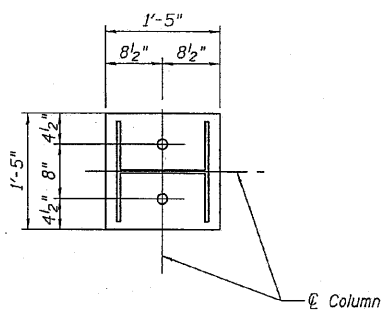
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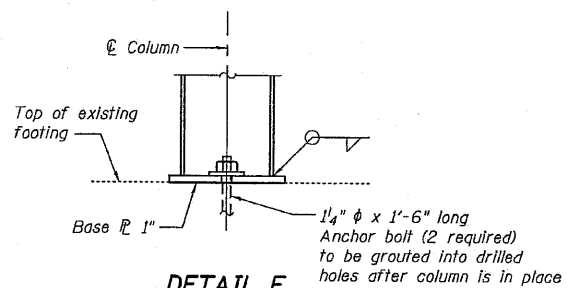
SECTION A-A



SECTION B-B



PLAN OF BASE PLATE



DETAIL F

DESIGNED	MEL
CHECKED	RLM
DRAWN	PRC
CHECKED	MEL

200	EXAMINED
ENGINEER OF BRIDGE DESIGN	PASSED
ENGINEER OF BRIDGES AND STRUCTURES	



PIER 3 SHORING DETAILS - 2
IL. ROUTE 3 OVER DUPONT CANAL
AND RAILROAD
F.A. ROUTE 14 - SECTION 64-IVBI

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- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

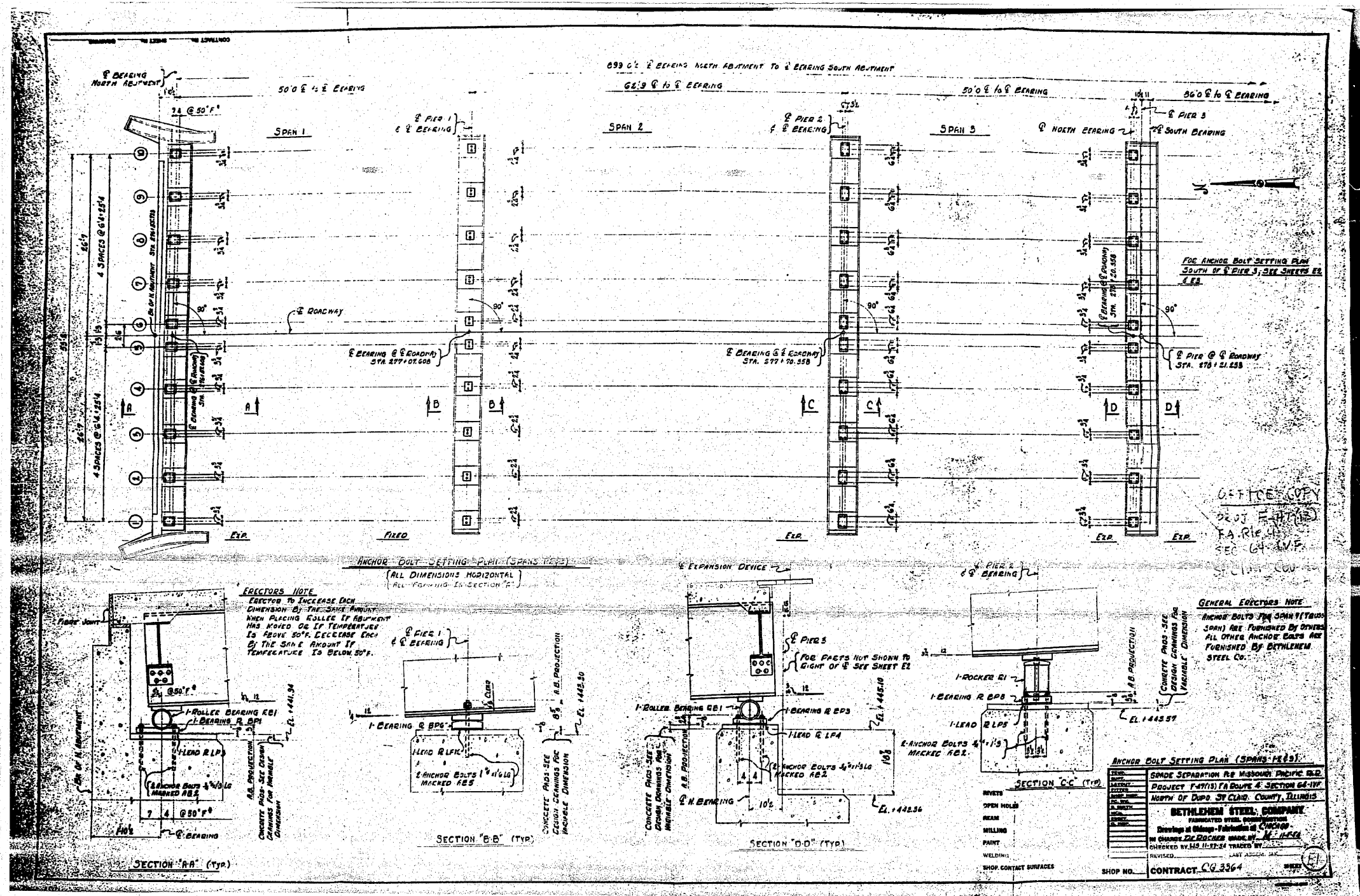
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PLOT DATE = 8/5/2010		DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 082-0030 PLANS
(SHORING TOWER PLANS)

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-IVBR	ST. CLAIR	259	161
			CONTRACT NO. 76882	
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

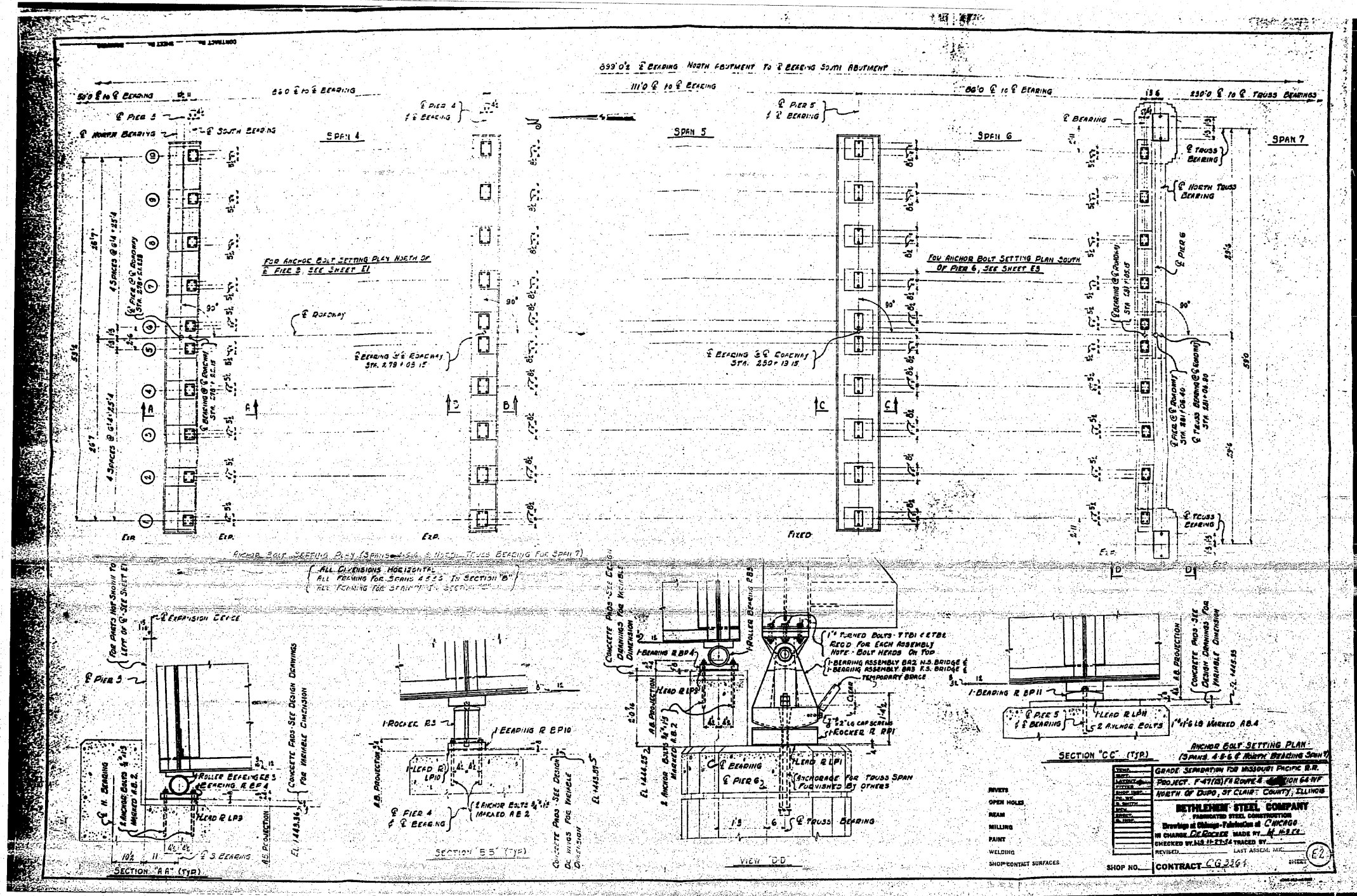
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STEEL SHOP DRAWINGS

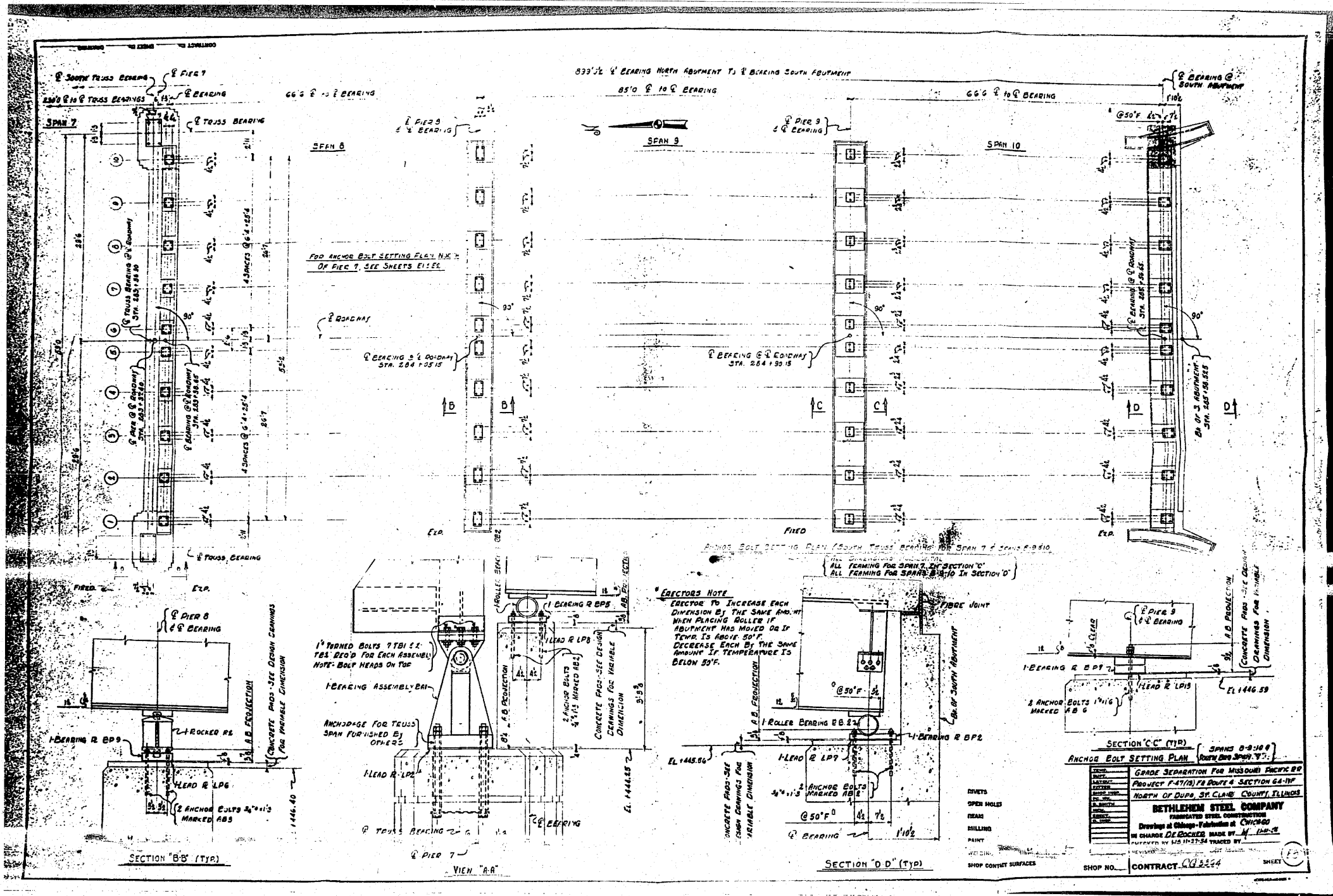
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	162
			CONTRACT NO. 76882	
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



FOR INFORMATION ONLY

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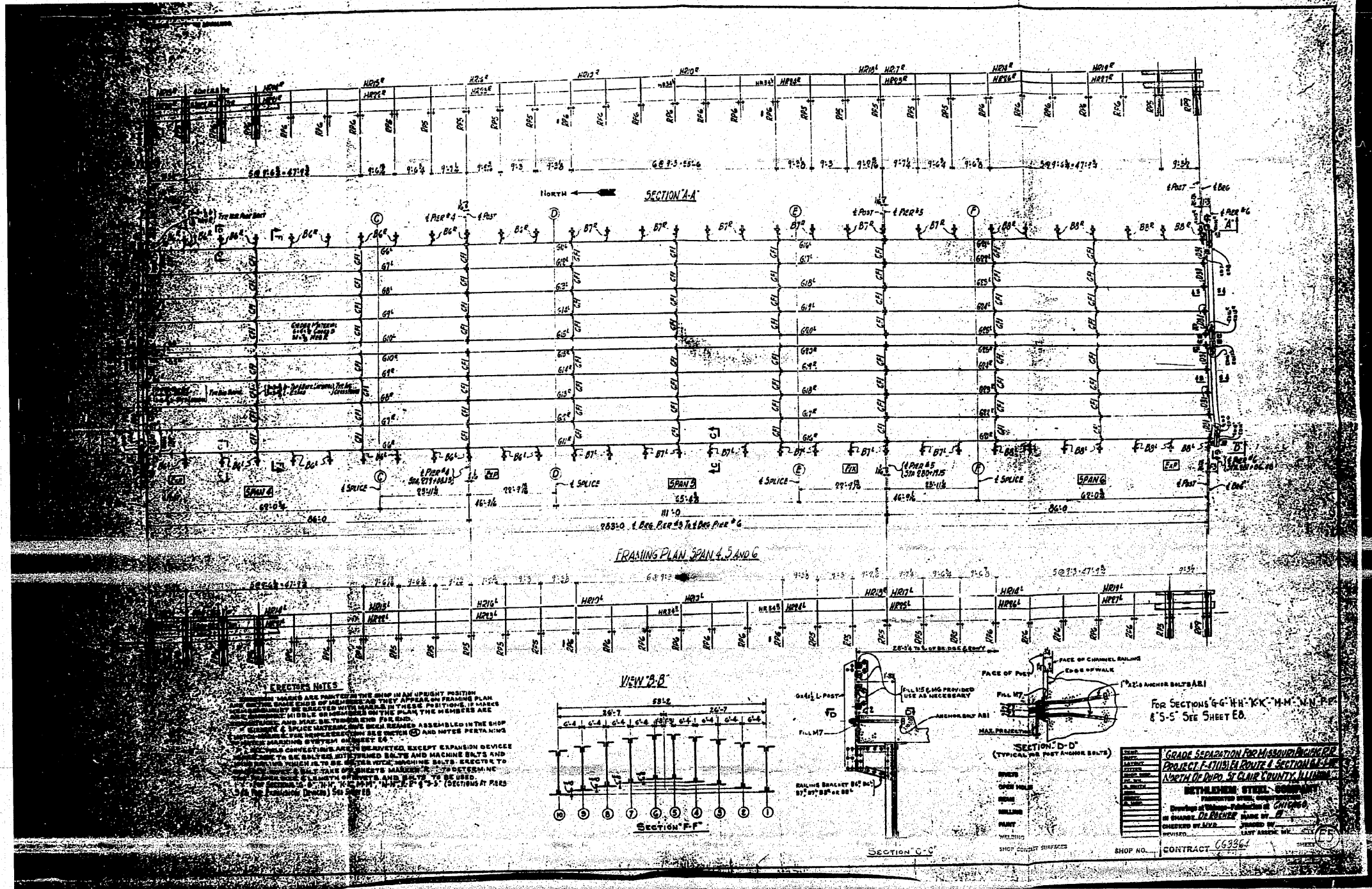
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STEEL SHOP DRAWINGS

SCALE: N/A SHEET NO. OF 67 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	164
CONTRACT NO. 76882			ILLINOIS FED. AID PROJECT	



ERECTOR'S NOTES

MEMBERS ARE POSITIONED IN THE SHOP IN AN UPRIGHT POSITION AND CHECKED SQUARE AND PLUMB. THEY ARE THEN POSITIONED IN PLACE AND CHECKED SQUARE AND PLUMB. IF THESE POSITIONS ARE NOT MAINTAINED THROUGHOUT THE ERECTION, THE MEMBERS ARE TO BE REPOSITIONED AND CHECKED SQUARE AND PLUMB. ALL MEMBERS ARE TO BE CHECKED SQUARE AND PLUMB AT THE SHOP AND IN PLACE. THE SHOP CHECKS ARE TO BE MADE BY THE SHOP AND THE IN-PLACE CHECKS ARE TO BE MADE BY THE ERECTOR. THE ERECTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF ALL MEMBERS AND CONNECTIONS DURING THE ERECTION. THE ERECTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF ALL MEMBERS AND CONNECTIONS DURING THE ERECTION. THE ERECTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF ALL MEMBERS AND CONNECTIONS DURING THE ERECTION.

REVISIONS

NO.	DESCRIPTION	DATE
1	AS SHOWN	

GRADE SEPARATION FOR MISSOURI HIGHWAY PROJECT F-111814 ROUTE 4 SECTION 1-4 NORTH OF DUPO, ST. CLAIR COUNTY, ILLINOIS

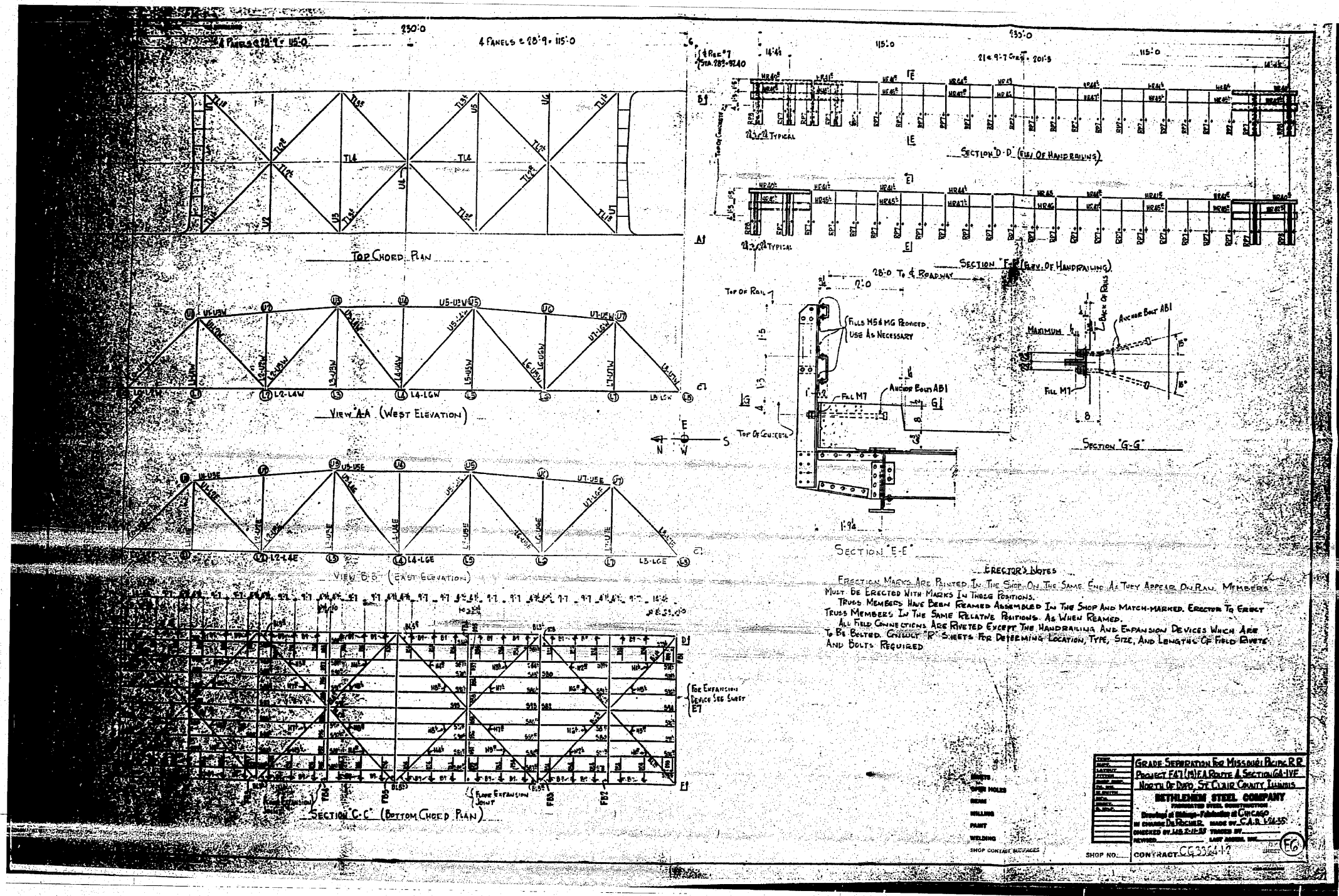
REYNOLDS STEEL COMPANY

DESIGNED BY: [Name]
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

SHOP NO. 66364 CONTRACT 76882

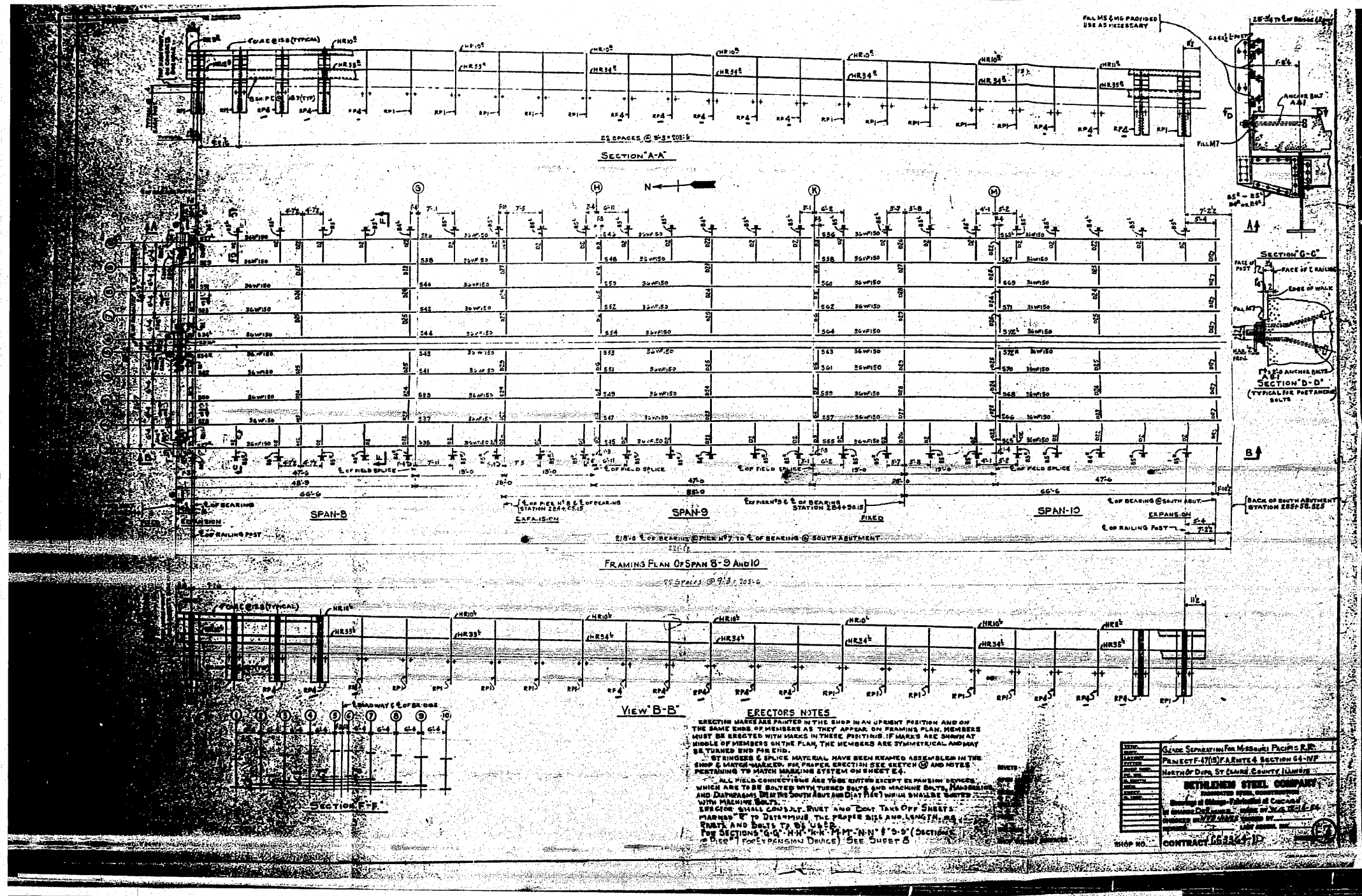
FOR INFORMATION ONLY

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ILLINOIS FED. AID PROJECT												CONTRACT NO. 76882	



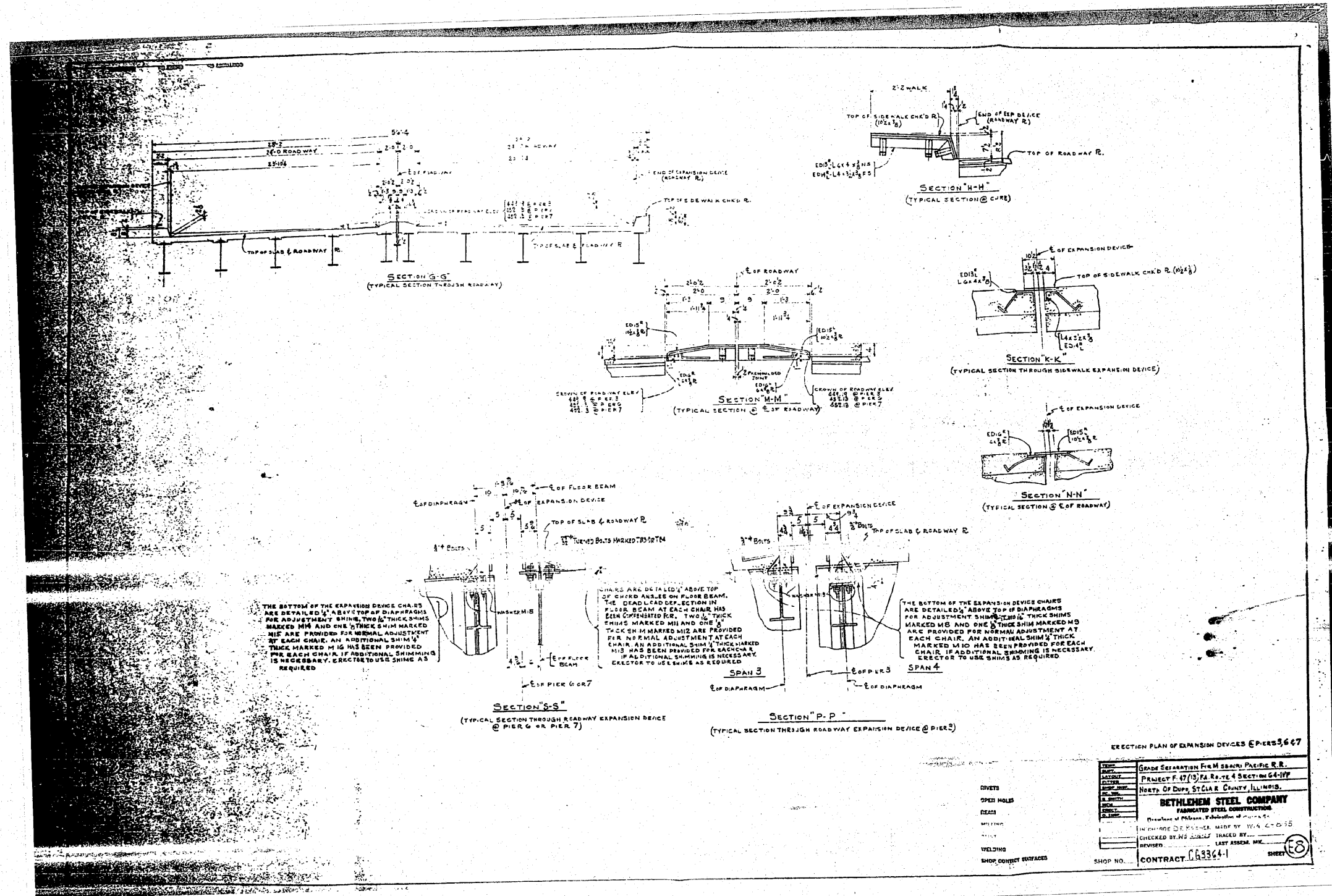
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										ILLINOIS FED. AID PROJECT



FOR INFORMATION ONLY

FILE NAME =	USER NAME = thpr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 5/17/2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
					SCALE: N/A	SHEET NO.	OF 67 SHEETS	STA.	TO STA.	



THE BOTTOM OF THE EXPANSION DEVICE CHAIRS ARE DETAILED ABOVE TOP OF DIAPHRAGMS FOR ADJUSTMENT SHIMS. TWO 1/2" THICK SHIMS MARKED MM AND ONE 1/2" THICK SHIM MARKED M12 ARE PROVIDED FOR NORMAL ADJUSTMENT AT EACH CHAIR. AN ADDITIONAL SHIM 1/2" THICK MARKED M10 HAS BEEN PROVIDED FOR EACH CHAIR. IF ADDITIONAL SHIMMING IS NECESSARY, ERECTOR TO USE SHIMS AS REQUIRED.

CHAIRS ARE DETAILED ABOVE TOP OF CHORD ANGLES ON FLOOR BEAM. THE DEAD LOAD DEFLECTION IN FLOOR BEAM AT EACH CHAIR HAS BEEN COMPENSATED FOR. TWO 1/2" THICK SHIMS MARKED M12 AND ONE 1/2" THICK SHIM MARKED M10 ARE PROVIDED FOR NORMAL ADJUSTMENT AT EACH CHAIR. AN ADDITIONAL SHIM 1/2" THICK MARKED M10 HAS BEEN PROVIDED FOR EACH CHAIR. IF ADDITIONAL SHIMMING IS NECESSARY, ERECTOR TO USE SHIMS AS REQUIRED.

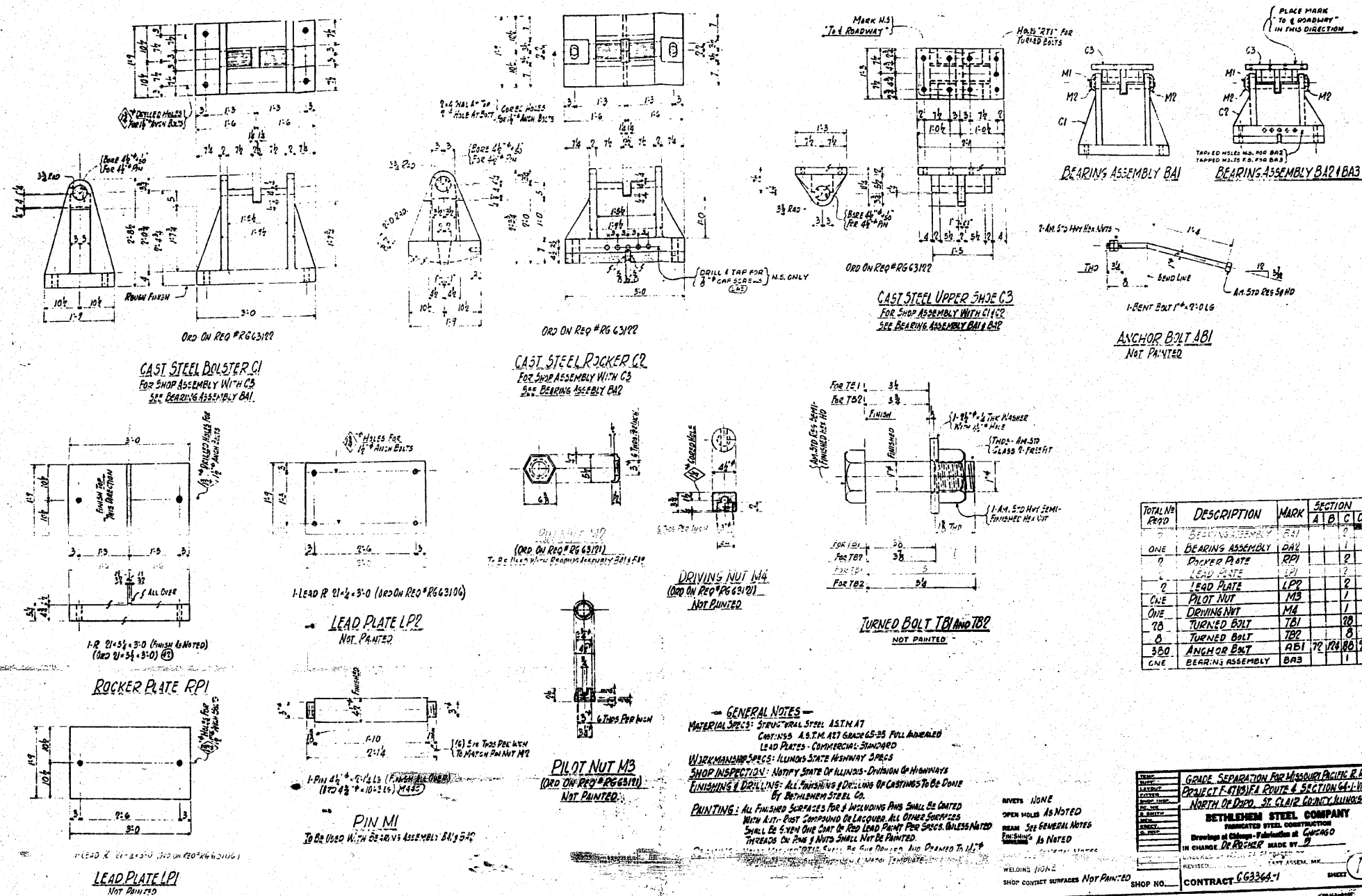
THE BOTTOM OF THE EXPANSION DEVICE CHAIRS ARE DETAILED ABOVE TOP OF DIAPHRAGMS FOR ADJUSTMENT SHIMS. TWO 1/2" THICK SHIMS MARKED M12 AND ONE 1/2" THICK SHIM MARKED M10 ARE PROVIDED FOR NORMAL ADJUSTMENT AT EACH CHAIR. AN ADDITIONAL SHIM 1/2" THICK MARKED M10 HAS BEEN PROVIDED FOR EACH CHAIR. IF ADDITIONAL SHIMMING IS NECESSARY, ERECTOR TO USE SHIMS AS REQUIRED.

ERECTION PLAN OF EXPANSION DEVICES @ PIER 3 & 7

TYPE	GRADE SEPARATION FOR M SBARRI PACIFIC R.R.
DATE	PROJECT F. 47 (3) PA. R. 7E 4 SECTION 64-1VP
LOCATION	NORTH OF DUPE, ST. CLAIR COUNTY, ILLINOIS.
DESIGNER	BETHLEHEM STEEL COMPANY
MANUFACTURER	FABRICATED STEEL CONSTRUCTION
DATE	IN CHARGE OF PROJECT, MADE BY: W.A. C. D. 55
CHECKED BY	CHECKED BY: W.S. 5/25/55 TRACED BY: LAST ASSEMB. NO.
REVISIONS	REVISIONS
SHOP NO.	CONTRACT C. 63364-1 SHEET 68

FOR INFORMATION ONLY

FILE NAME =	USER NAME = tharpr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw_work\pwwdot\tharpr1\dms71738\0876892-shr-fab-plans.dgn		DRAWN -	REVISED -		312	64-1VBR	ST. CLAIR	259	169				
PLOT SCALE = 50.0000 1/ IN.		CHECKED -	REVISED -		SCALE: N/A	SHEET NO. OF 67 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT					
PLOT DATE = 5/17/2010		DATE -	REVISED -		CONTRACT NO. 76882								



TOTAL NO. REQ'D	DESCRIPTION	MARK	SECTION		
			A	B	C/D
ONE	BEARING ASSEMBLY BAI	BAI			1
ONE	BEARING ASSEMBLY BBA1/BBA3	BBA1/BBA3			1
ONE	CAST STEEL BOLSTER C1	C1			1
ONE	CAST STEEL ROCKER C2	C2			1
ONE	CAST STEEL UPPER SHOE C3	C3			1
ONE	LEAD PLATE LPP	LPP			1
ONE	ROCKER PLATE RPI	RPI			1
ONE	DRIVING NUT M4	M4			1
ONE	TURNED BOLT TB1	TB1			1
ONE	TURNED BOLT TB2	TB2			1
ONE	ANCHOR BOLT AB1	AB1			1
ONE	BEARING ASSEMBLY BBA1/BBA3	BBA1/BBA3			1

GENERAL NOTES

MATERIAL SPEC: STRUCTURAL STEEL ASTM A7
CASTINGS ASTM A7 GRADE 65-25 FULL ANNEALED
LEAD PLATES - COMMERCIAL STANDARD

WORKMANSHIP SPEC: ILLINOIS STATE HIGHWAY DEPARTMENT
SHOP INSPECTION: NOTIFY STATE OF ILLINOIS DIVISION OF HIGHWAYS
FINISHING & DRILLING: ALL FINISHING & DRILLING OF CASTINGS TO BE DONE BY BETHLEHEM STEEL CO.

PAINTING: ALL FINISHED SURFACES FOR & INCLUDING PINS SHALL BE COATED WITH A 2-1/2 OZ COMPOUND OF LAQUER. ALL OTHER SURFACES SHALL BE GIVEN ONE COAT OF RED LEAD PAINT FOR PROTECTIVE PURPOSES UNLESS NOTED OTHERWISE. THREADS ON PINS & NUTS SHALL NOT BE PAINTED.

WELDING: HIGH STRENGTH WELDS SHALL BE WELDED TO THE FULL PENETRATION WELDING PROCESS. WELD JOINTS SHALL BE WELDED TO THE FULL PENETRATION WELDING PROCESS. WELD JOINTS SHALL BE WELDED TO THE FULL PENETRATION WELDING PROCESS.

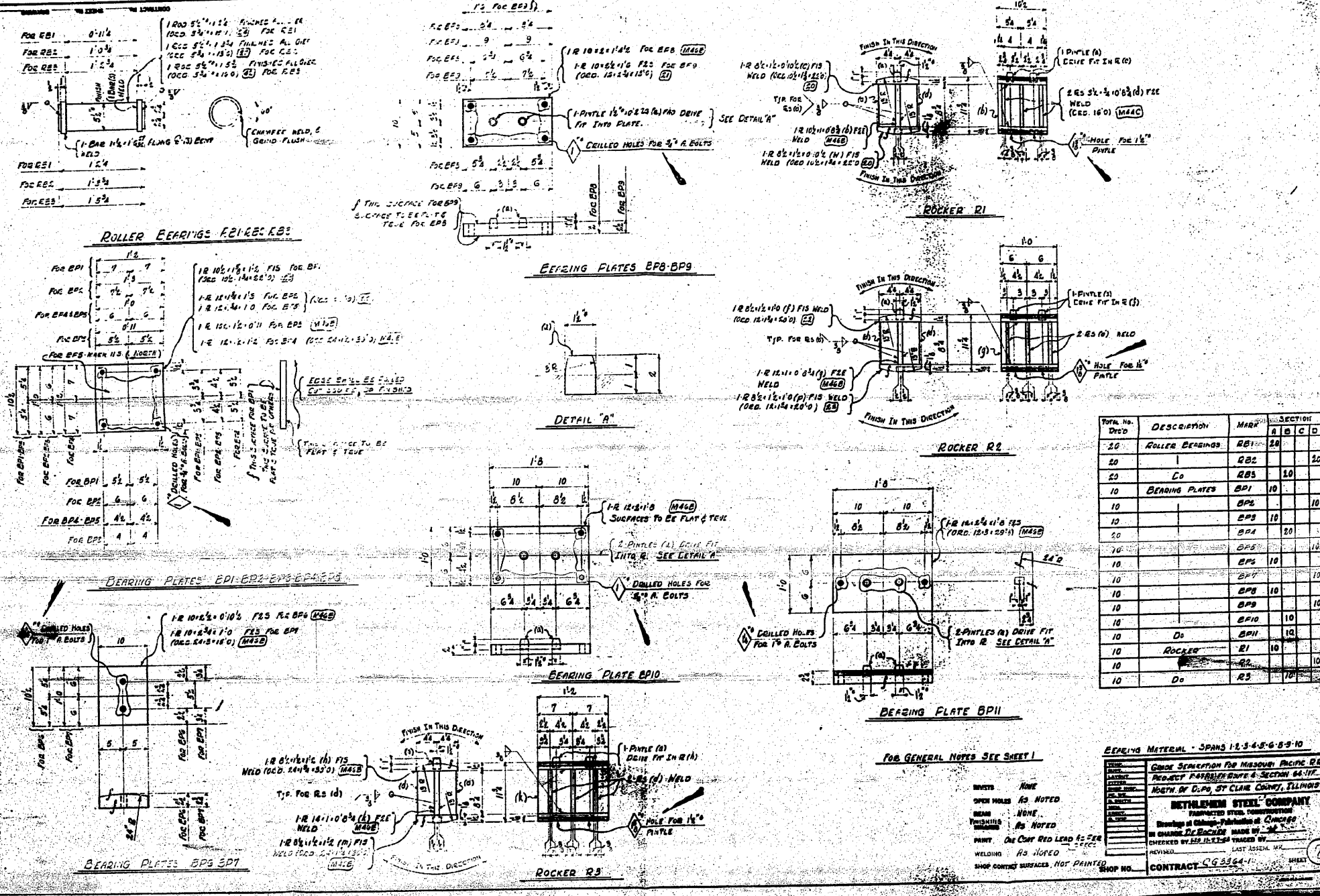
WELDING: HIGH STRENGTH WELDS SHALL BE WELDED TO THE FULL PENETRATION WELDING PROCESS. WELD JOINTS SHALL BE WELDED TO THE FULL PENETRATION WELDING PROCESS. WELD JOINTS SHALL BE WELDED TO THE FULL PENETRATION WELDING PROCESS.

WELDING: HIGH STRENGTH WELDS SHALL BE WELDED TO THE FULL PENETRATION WELDING PROCESS. WELD JOINTS SHALL BE WELDED TO THE FULL PENETRATION WELDING PROCESS. WELD JOINTS SHALL BE WELDED TO THE FULL PENETRATION WELDING PROCESS.

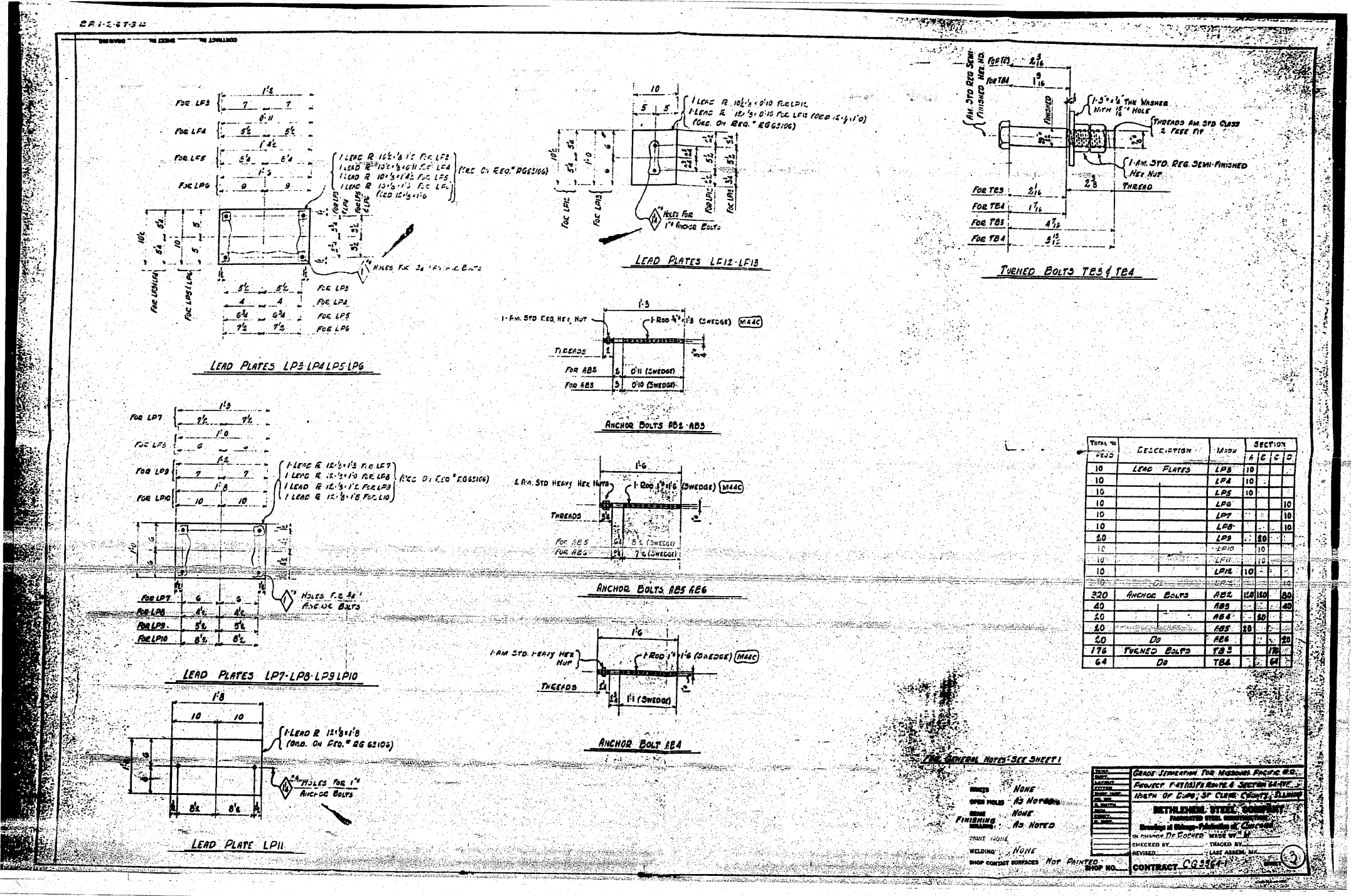
DATE	GRADE SEPARATION FOR MISSOURI ROUTE R.R.
PROJECT	PROJECT 64-1VBR ROUTE 4 SECTION 64-1V
LOCATION	NORTH OF DUNDY, ST. CLAIR COUNTY, ILLINOIS
DESIGNED BY	BETHLEHEM STEEL COMPANY
CHECKED BY	FABRICATED STEEL CONSTRUCTION
IN CHARGE OF DESIGN	IN CHARGE OF DESIGN - FABRICATED AT CHICAGO
REVISIONS	REVISIONS - AS NOTED
WELDING	WELDING - HIGH STRENGTH
SHOP NO.	CONTRACT 663264-1

FOR INFORMATION ONLY

ER 12-5-7-9-10



FOR INFORMATION ONLY

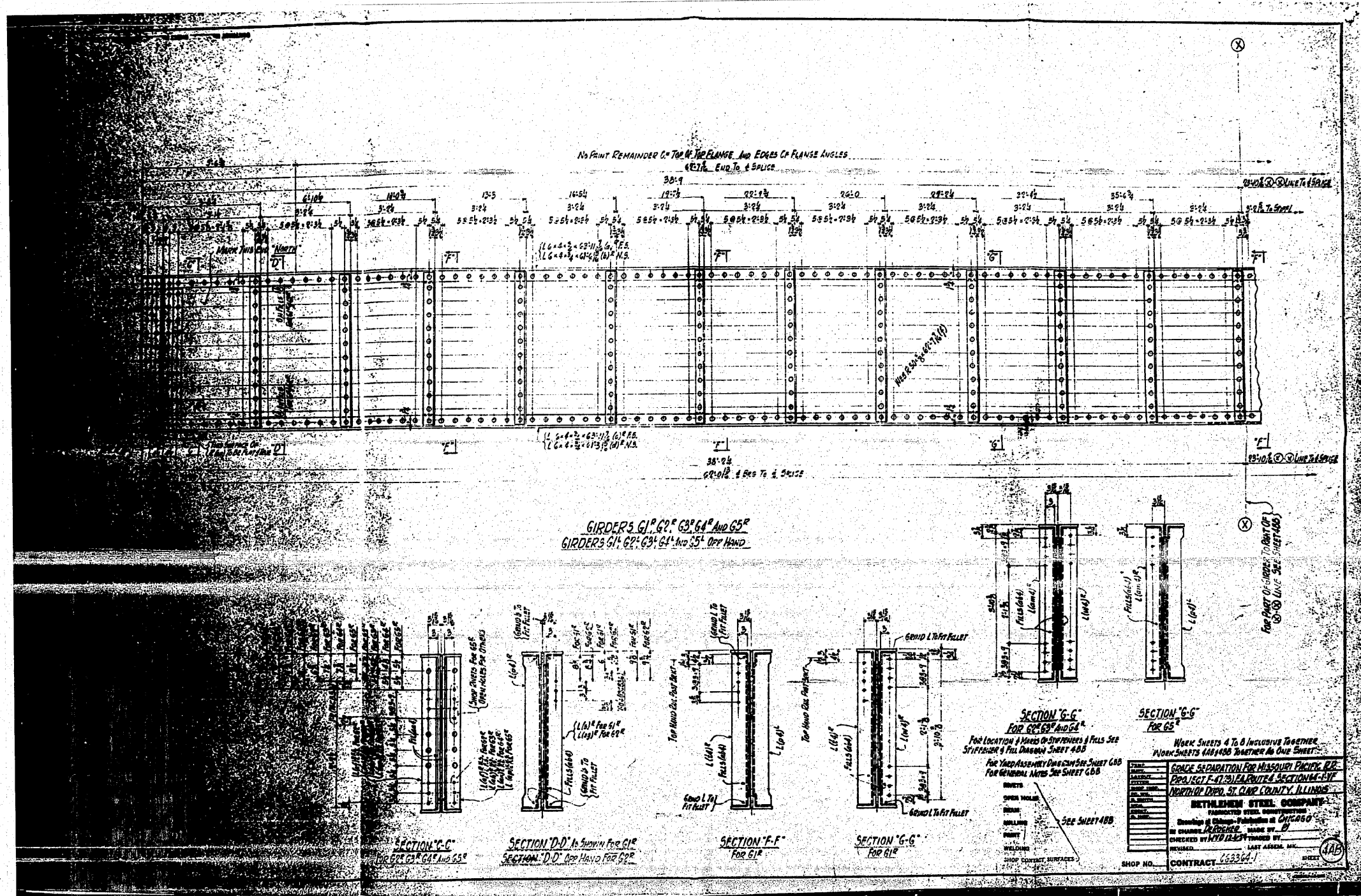


GENERAL NOTES - SEE SHEET 1

GRADE: NONE
 FINISHING: AS NOTED
 PAINT: NONE
 WELDING: NONE
 SHOP CONTACT SURFACES: NOT PRINTED

BETHLEHEM STEEL COMPANY
 IN PHOENIX, ARIZONA
 CHECKED BY: _____
 REVISION: _____
 CONTRACT: CG 5567

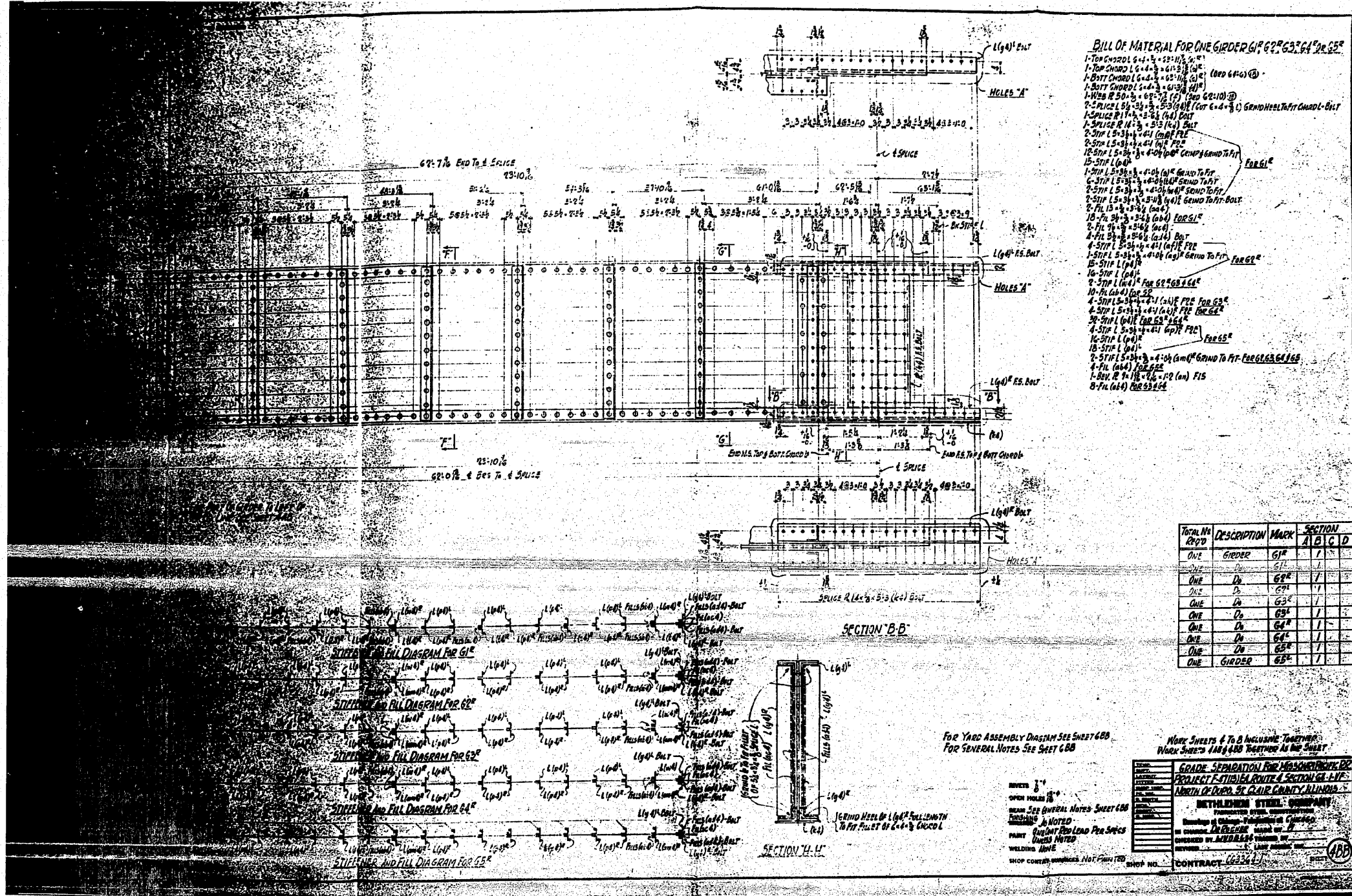
FOR INFORMATION ONLY



FOR INFORMATION ONLY

FILE NAME =	USER NAME = tharp1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
or\p\work\psidot\tharp1\dms71738\087882-sh1-fab-plans.dgn	PLOT SCALE = 50.0000 / IN.	DRAWN -	REVISED -			312	64-1VBR	ST. CLAIR	259	173
PLOT DATE = 5/17/2010	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 76882				
	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: N/A SHEET NO. OF 67 SHEETS STA. TO STA.



BILL OF MATERIAL FOR ONE GIRDER 61", 62", 63", 64" OR 65"

1- TOP CHORD L 6 x 4 1/2 (1) 60' (1) 60'
 1- TOP CHORD L 6 x 4 1/2 (1) 60' (1) 60'
 1- BOTTOM CHORD L 6 x 4 1/2 (1) 60' (1) 60'
 1- WEB PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'
 1- SPICE PL 5/8 x 6 (1) 60' (1) 60'

TOTAL	DESCRIPTION	MARK	SECTION		
QTY	MARK	A	B	C	D
ONE	61"	1			
ONE	62"	1			
ONE	63"	1			
ONE	64"	1			
ONE	65"	1			
ONE	GIRDER				

WORK SHEETS 4 TO 8 INCLUSIVE TOGETHER
 WORK SHEETS 1 AND 2 RETURNED AS ONE SHEET

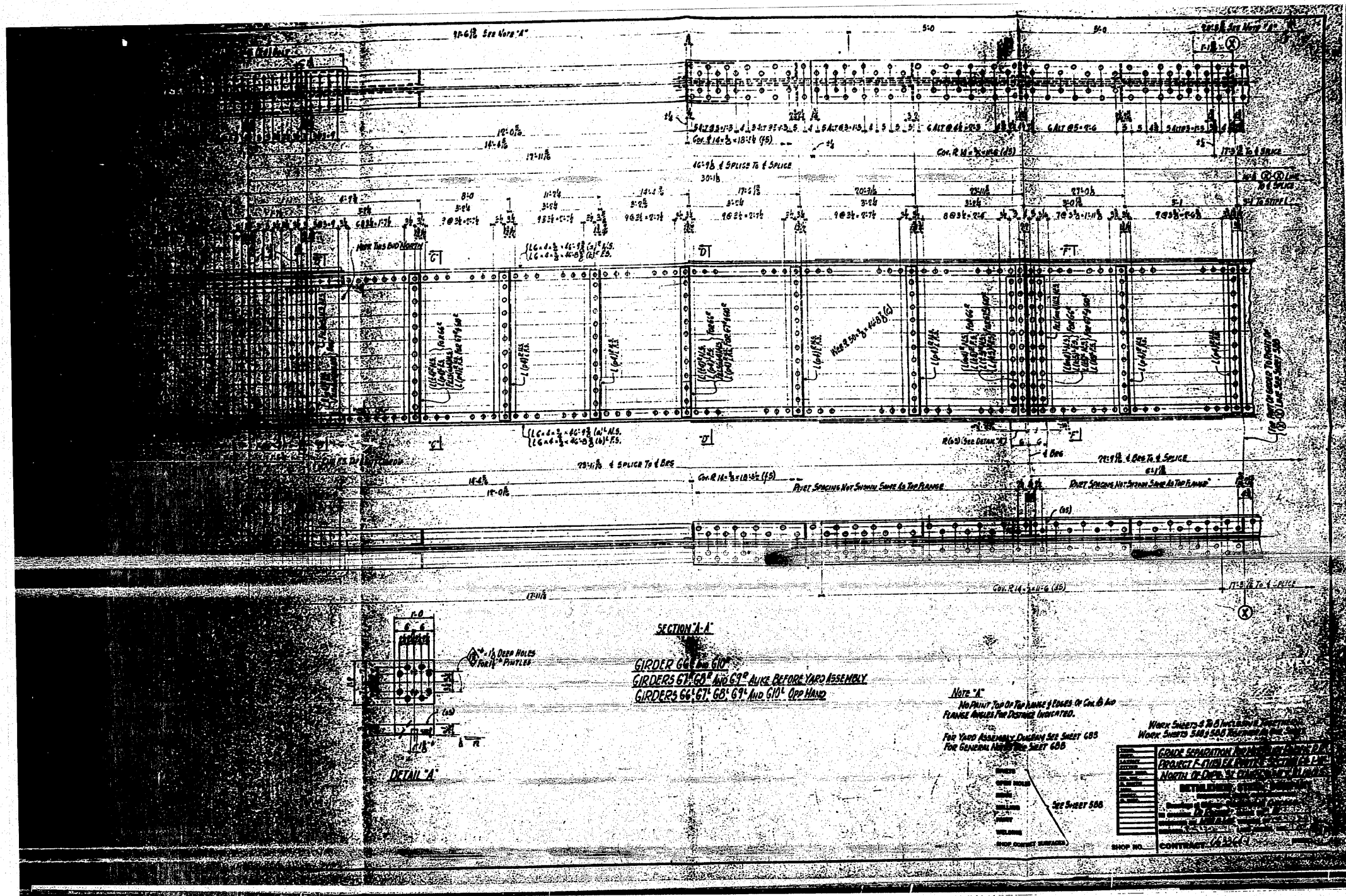
GRADE SEPARATION FOR MEADOW CREEK DC
 PROJECT: FAYATTA ROUTE & SECTION 41 LIV
 NORTH OF DURO, ST. CLAIR COUNTY, ILLINOIS

METHLESON STEEL COMPANY
 MANUFACTURED STEEL
 Manufactured in Chicago, Illinois

CONTRACT NO. 66361

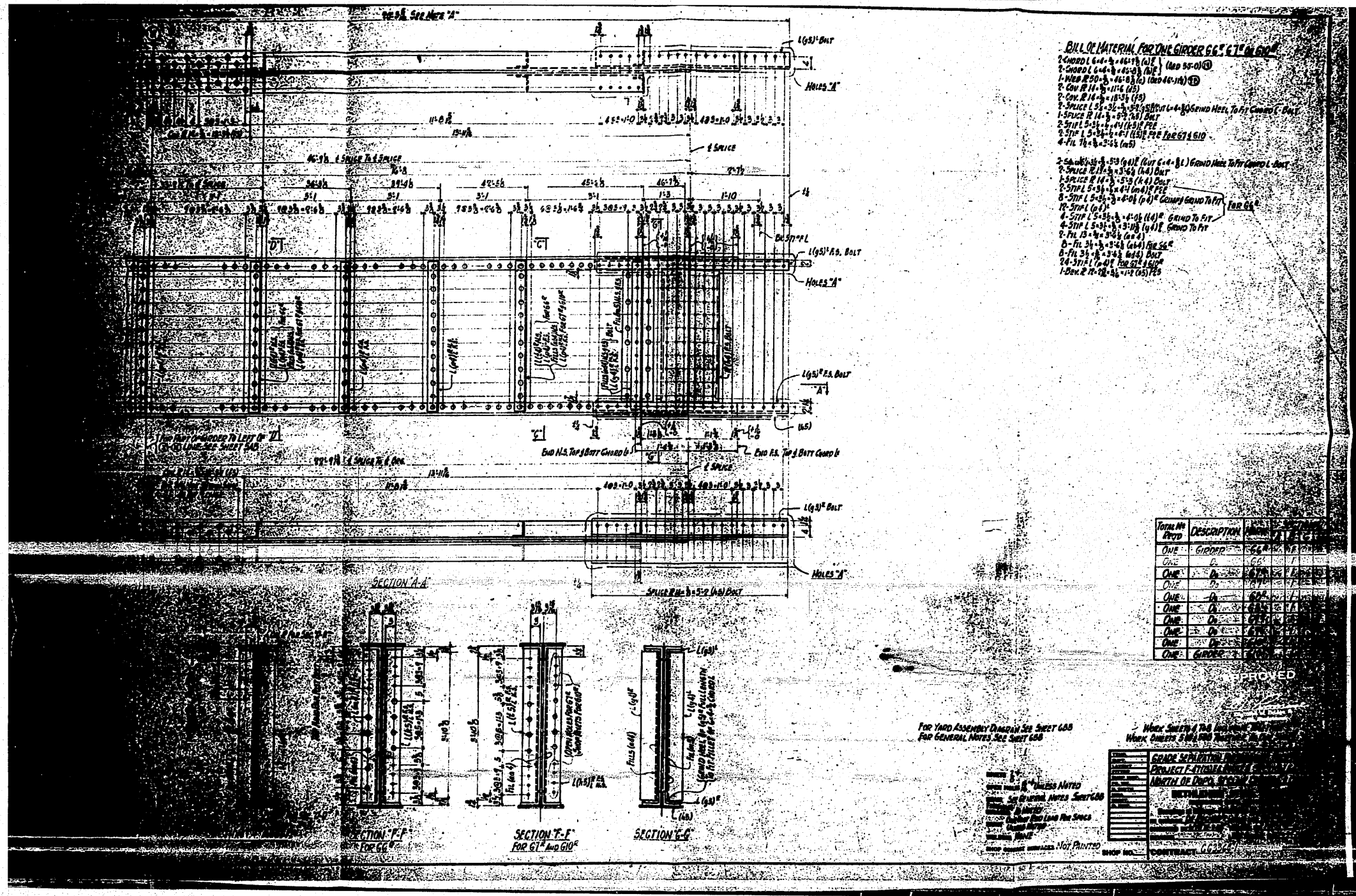
FOR INFORMATION ONLY

FILE NAME =	USER NAME = therpr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS			F.A.P. RTEL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
at:\pw\work\pw\dot\therpr1\dms\71738\087682-sht-fab-plans.dgn	DRAWN -	REVISED -	REVISED -		SCALE: N/A	SHEET NO.	OF 67 SHEETS	STA.	TO STA.	ST. CLAIR	259	174
PLOT SCALE = 5/8"=1' - 0"	CHECKED -	REVISED -	REVISED -									
PLOT DATE = 5/17/2010	DATE -	REVISED -	REVISED -									
CONTRACT NO. 76882												
ILLINOIS FED. AID PROJECT												



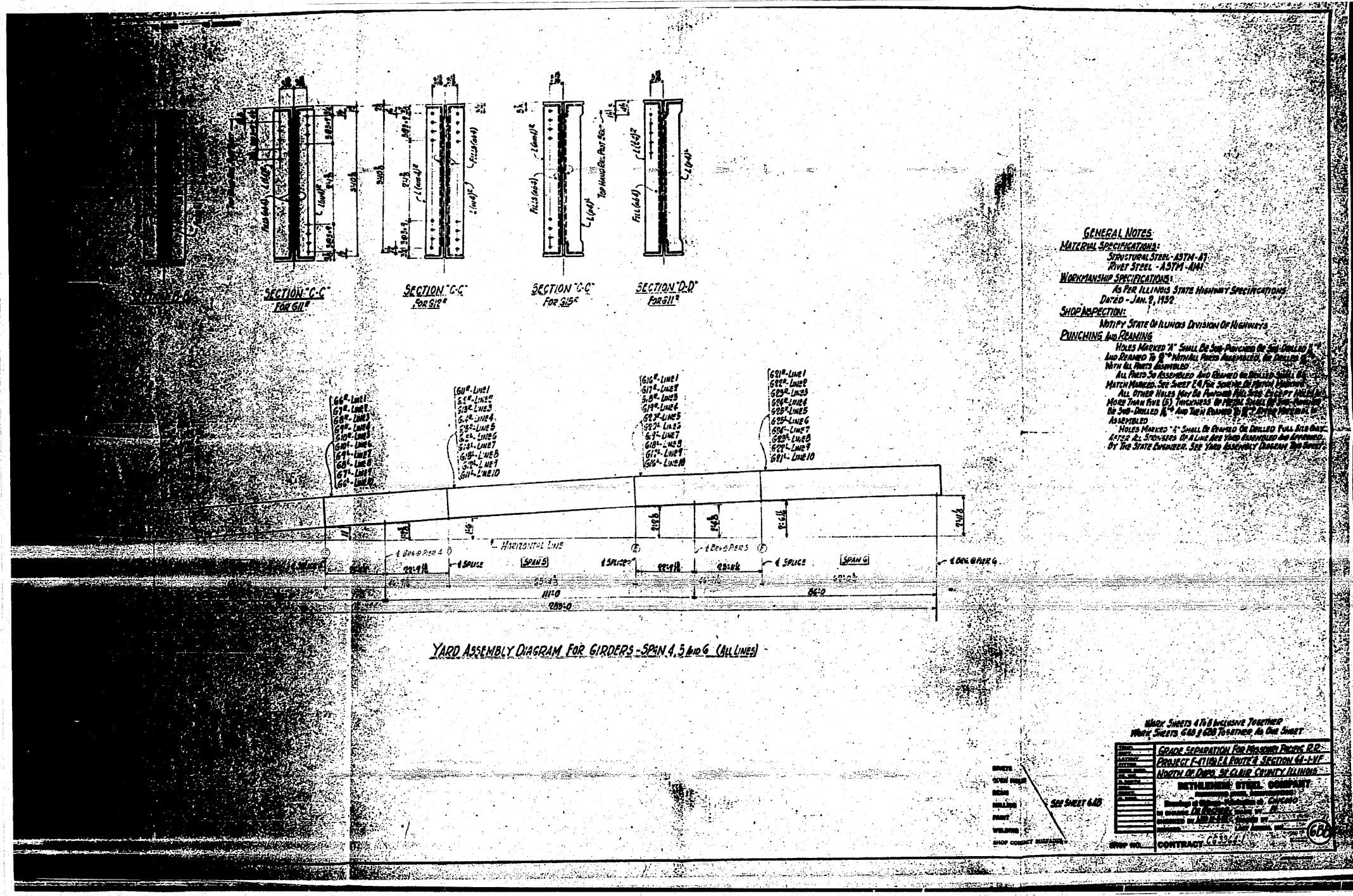
FOR INFORMATION ONLY

FILE NAME =	USER NAME = tharp1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	
ar\p\work\p\dot\tharp1\dms71738\0876	02-shr-fab-plans.dgn	DRAWN -	REVISED -					312	64-1VBR	ST. CLAIR	259	175
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 76882									
PLOT DATE = 5/17/2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									



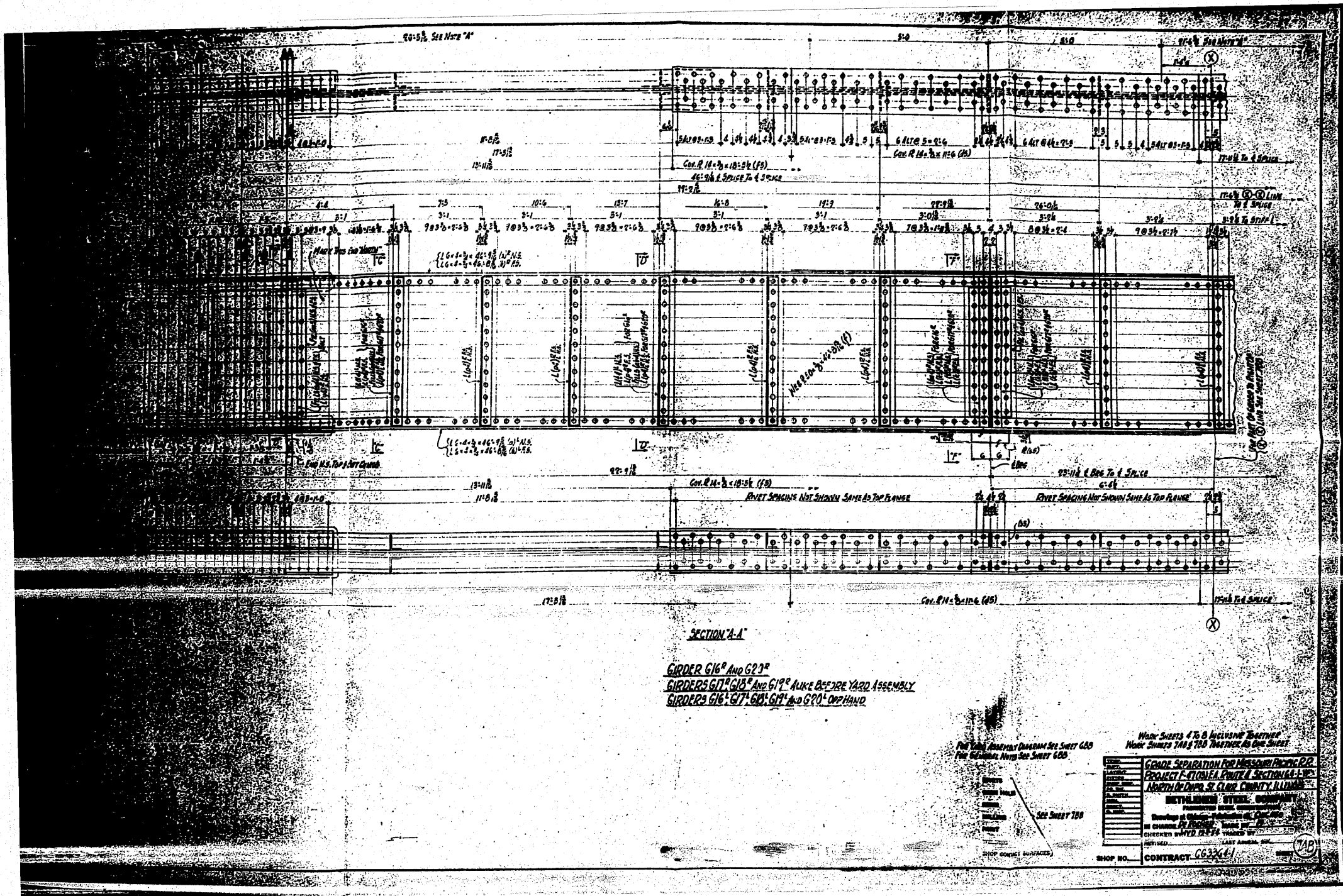
FOR INFORMATION ONLY

FILE NAME =	USER NAME = thpr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct\pwork\pwork\thpr1\dms71738\087802-shr-fab-plans.dgn		DRAWN -	REVISED -			312	64-1VBR	ST. CLAIR	259	176
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			SCALE: N/A SHEET NO. OF 67 SHEETS STA. TO STA.		CONTRACT NO. 76882		
PLOT DATE = 5/17/2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



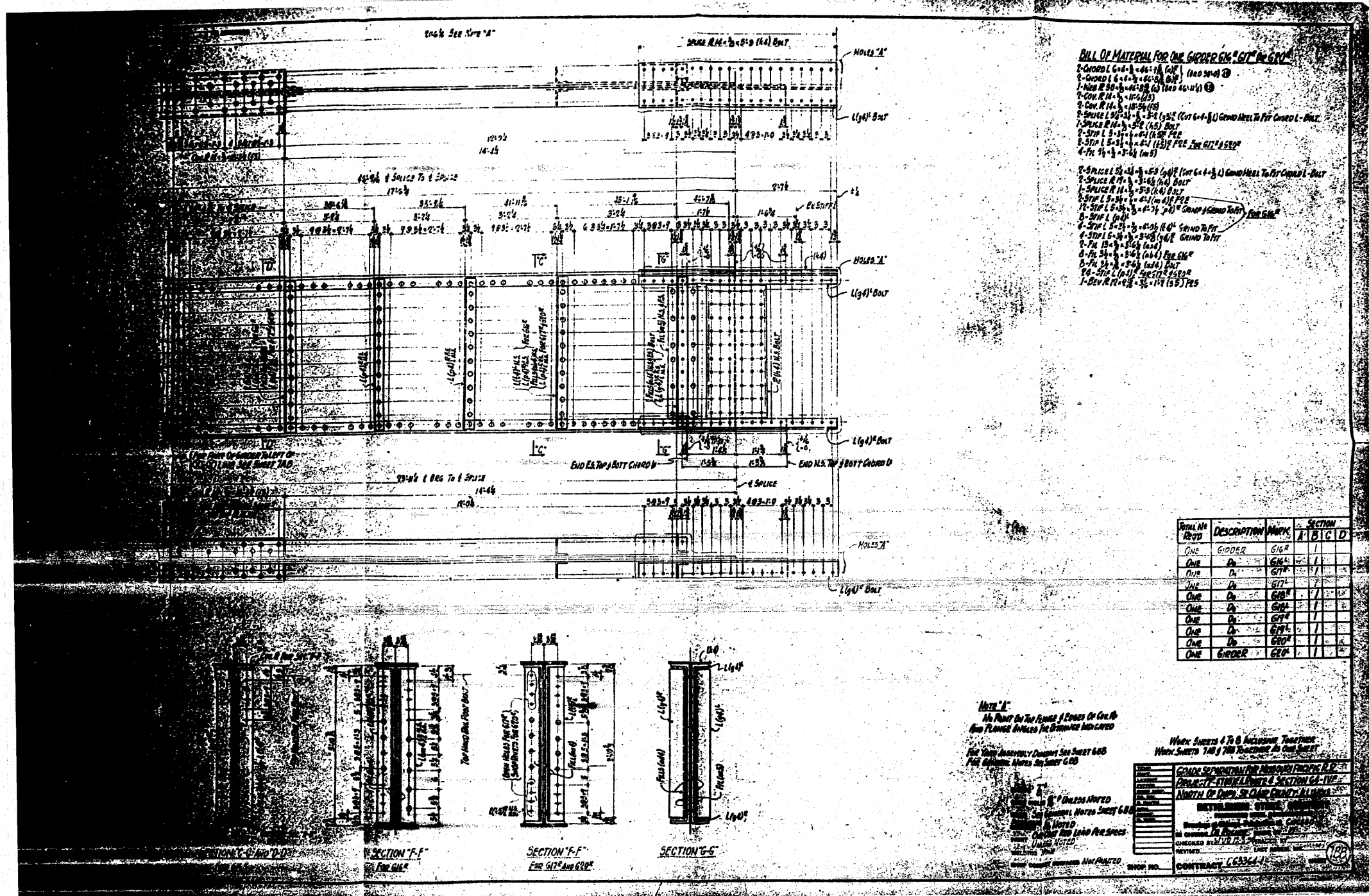
FOR INFORMATION ONLY

FILE NAME =	USER NAME = tharp1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\tharp1\dms71738\087682-shr-fab-plans.dgn		DRAWN -	REVISED -			312	64-1VBR	ST. CLAIR	259	178
PLOT SCALE = 58.0000 / / IN.		CHECKED -	REVISED -			CONTRACT NO. 76882				
PLOT DATE = 5/17/2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
						SCALE: N/A	SHEET NO.	OF 67 SHEETS	STA.	TO STA.



FOR INFORMATION ONLY

FILE NAME =	USER NAME = tharp1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\dot\tharp1\dms71738\087682-ehf-fab-plans.dgn		DRAWN -	REVISED -			312	64-1VBR	ST. CLAIR	259	179	
PLOT SCALE = 50.0000 ' / IN.		CHECKED -	REVISED -			SCALE: N/A SHEET NO. OF 67 SHEETS STA. TO STA.		CONTRACT NO. 76882		ILLINOIS FED. AID PROJECT	
PLOT DATE = 5/17/2012		DATE -	REVISED -								



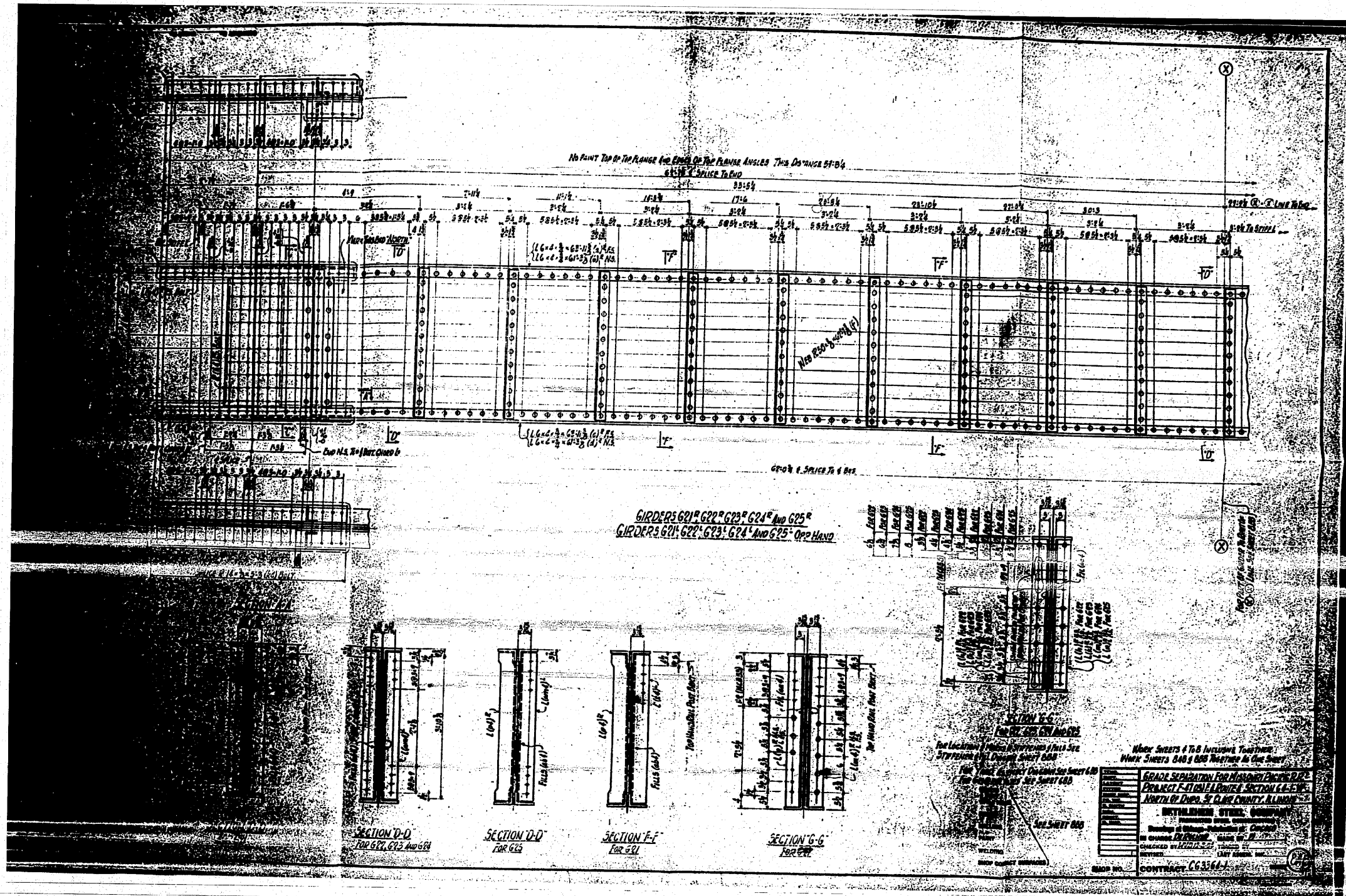
BILL OF MATERIAL FOR ONE GIRDER EX-617 IN 617

2-GIRDER L 6-4-1/2 x 14 (140 LB) ①
 2-GIRDER L 6-4-1/2 x 14 (140 LB) ②
 1-PLATE R 24 x 1/2 x 14 (140 LB) ①
 2-COR. R 16 x 1/2 x 14 (140 LB) ①
 2-SPLICE L 12 x 1/2 x 14 (140 LB) ①
 1-SPUR L 6-4-1/2 x 14 (140 LB) ①
 2-STIFF L 6-4-1/2 x 14 (140 LB) ①
 4-PL 1/2 x 1/2 x 14 (140 LB) ①

ITEM NO	DESCRIPTION	MARK	SECTION			
			A	B	C	D
ONE	GIRDER	G17	1			
ONE	PLATE	PL				
ONE	CORNER	COR				
ONE	SPUR	SPL				
ONE	STIFFENER	STIF				
ONE	PLATE	PL				
ONE	GIRDER	G20				

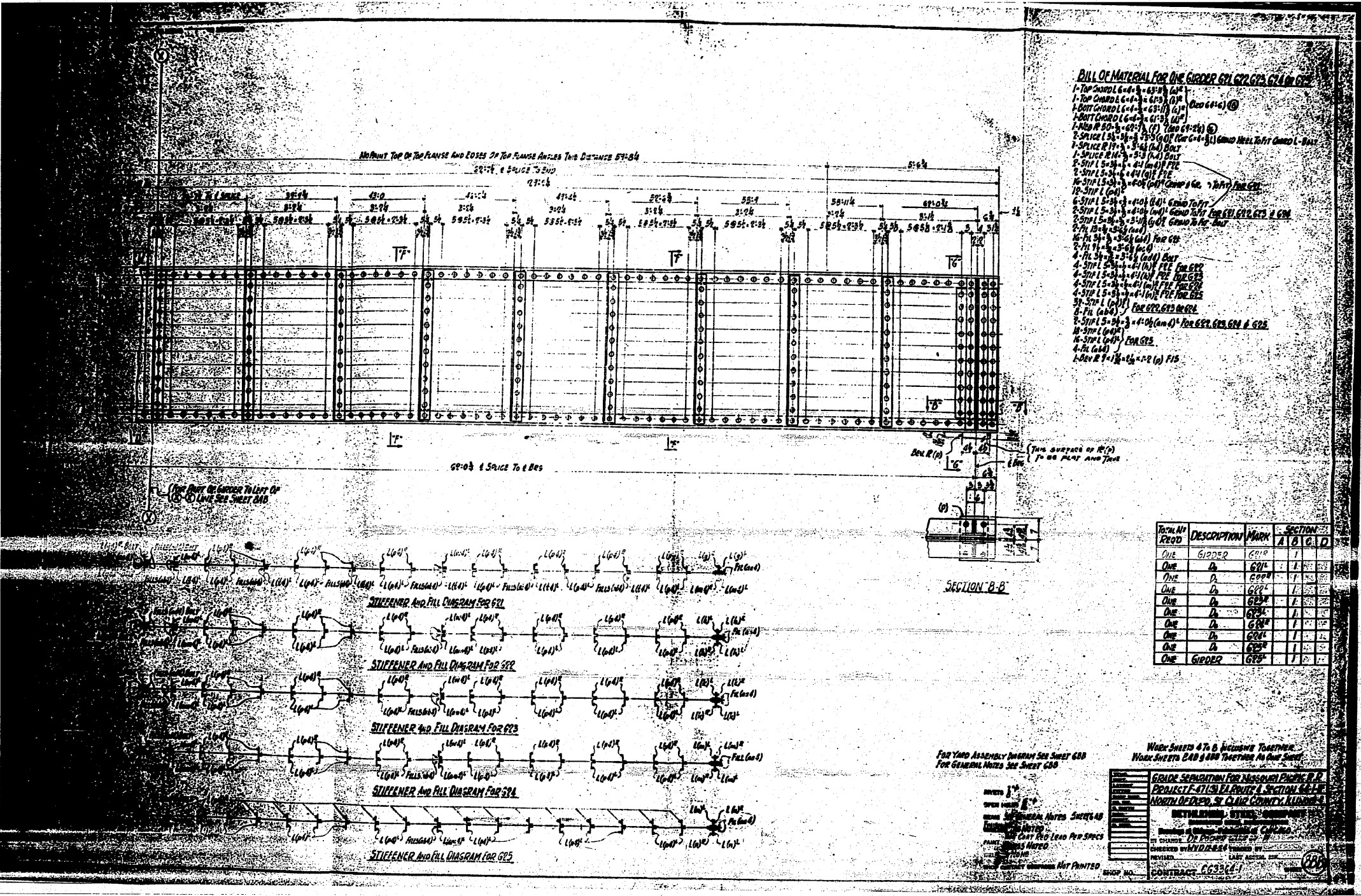
NO.	DESCRIPTION	DATE
	DESIGNED	
	CHECKED	
	REVISIONS	

FOR INFORMATION ONLY



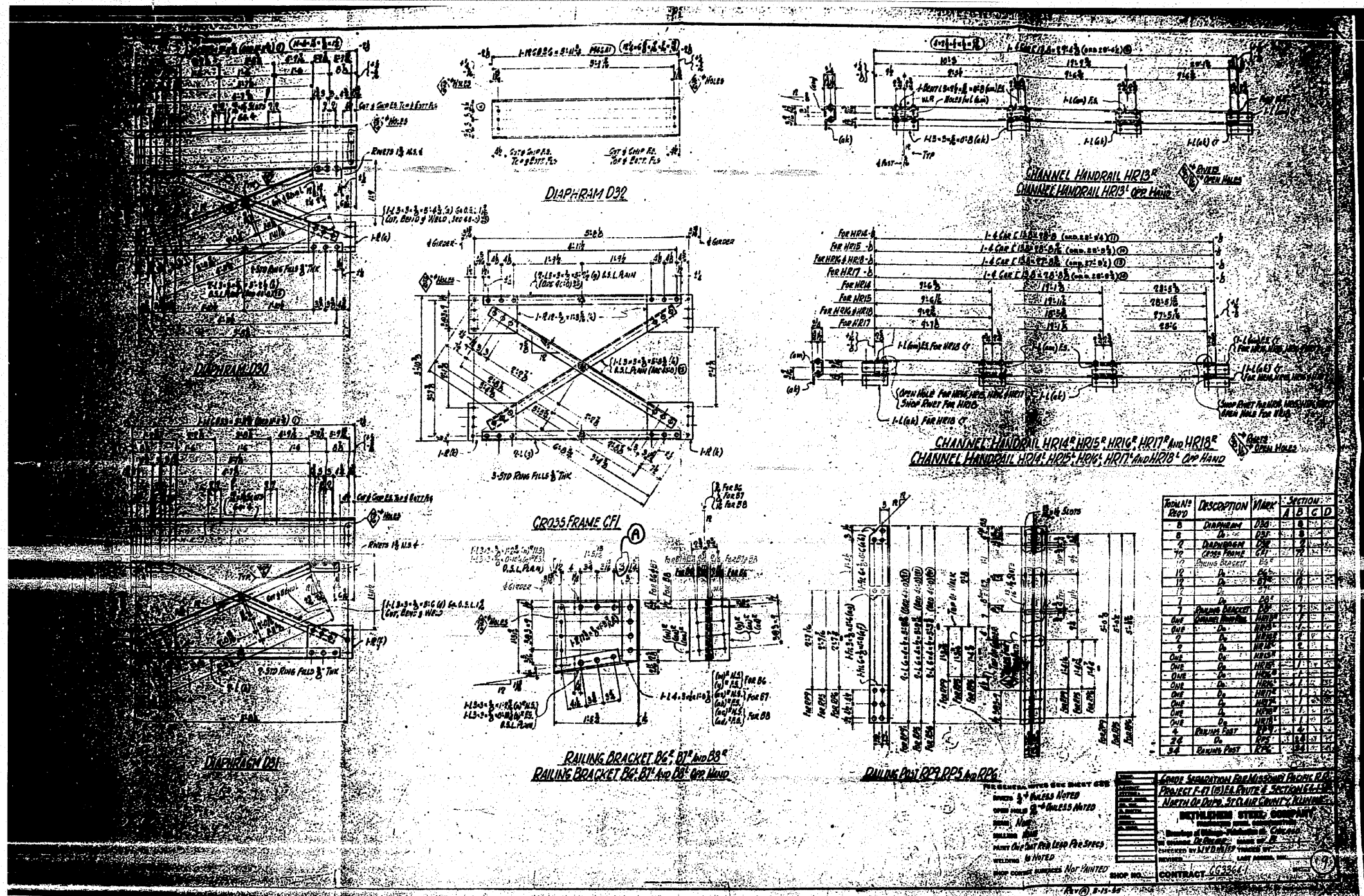
FOR INFORMATION ONLY

FILE NAME =	USER NAME = thorp1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
en:\pw\work\p\widot\thorp1\dms71738\0876892-sht-fab-plans.dgn		DRAWN -	REVISED -		312	64-1VBR	ST. CLAIR	259	181			
PLOT SCALE = 50.0000 ' / IN.		CHECKED -	REVISED -		SCALE: N/A	SHEET NO. OF 67 SHEETS	STA. TO STA.	CONTRACT NO. 76882				
PLOT DATE = 5/17/2010		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



FOR INFORMATION ONLY

FILE NAME =	USER NAME = tharp1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw_work\pwwdot\tharp1\dms7138\087682-shs-fab-plans.dgn		DRAWN -	REVISED -			312	64-1VBR	ST. CLAIR	259	182	
PLOT SCALE = 58.0000 ' / IN.		CHECKED -	REVISED -			SCALE: N/A	SHEET NO.	OF 67 SHEETS	STA.	TO STA.	CONTRACT NO. 76882
PLOT DATE = 5/17/2010		DATE -	REVISED -								ILLINOIS FED. AID PROJECT



NO.	DESCRIPTION	MAX.	SECTION
REV.			A B C D
1	DIAPHRAM D30	1/2"	1
2	DIAPHRAM D31	1/2"	2
3	DIAPHRAM D32	1/2"	3
4	DIAPHRAM D33	1/2"	4
5	GROSS FRAME C/F	1/2"	5
6	RAILING BRACKET B6, B7, and B8	1/2"	6
7	RAILING BRACKET B6, B7, and B8 - Opp Hand	1/2"	7
8	CHANNEL HANDRAIL HR13	1/2"	8
9	CHANNEL HANDRAIL HR13 - Opp Hand	1/2"	9
10	CHANNEL HANDRAIL HR14, HR15, HR16, HR17, and HR18	1/2"	10
11	CHANNEL HANDRAIL HR14, HR15, HR16, HR17, and HR18 - Opp Hand	1/2"	11
12	RAILING POST R2, R3, R4, R5, and R6	1/2"	12
13	RAILING POST R2, R3, R4, R5, and R6 - Opp Hand	1/2"	13

CONTRACT NO. 66336-1

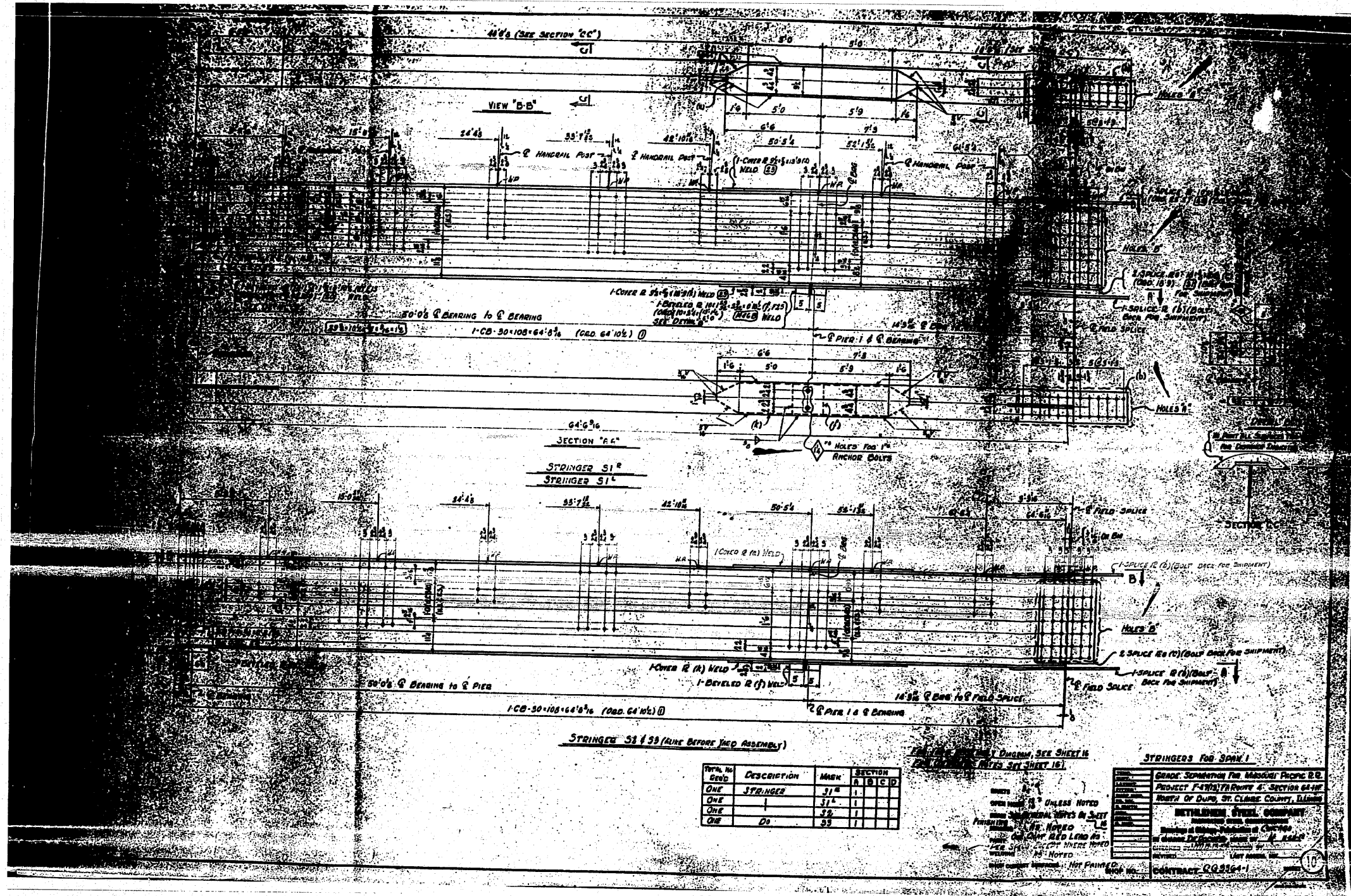
ST. CLAIR COUNTY, ILLINOIS

SECTION 64-1VBR

DATE: 5-17-2010

FOR INFORMATION ONLY

FILE NAME =	USER NAME = tharpr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwwork\pwwork\tharpr1\vdms71738\087682-sht-fab-plans.dgn		DRAWN -	REVISED -			312	64-1VBR	ST. CLAIR	259	183
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			SCALE: N/A	SHEET NO. OF 67 SHEETS	STA.	TO STA.	CONTRACT NO. 76882
PLOT DATE = 5/17/2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



REV. NO.	DESCRIPTION	DATE	BY	CHKD.
ONE	STRINGER	5/17		
ONE				
ONE				
ONE	DO	5/17		

STRINGERS FOR SPAN 1

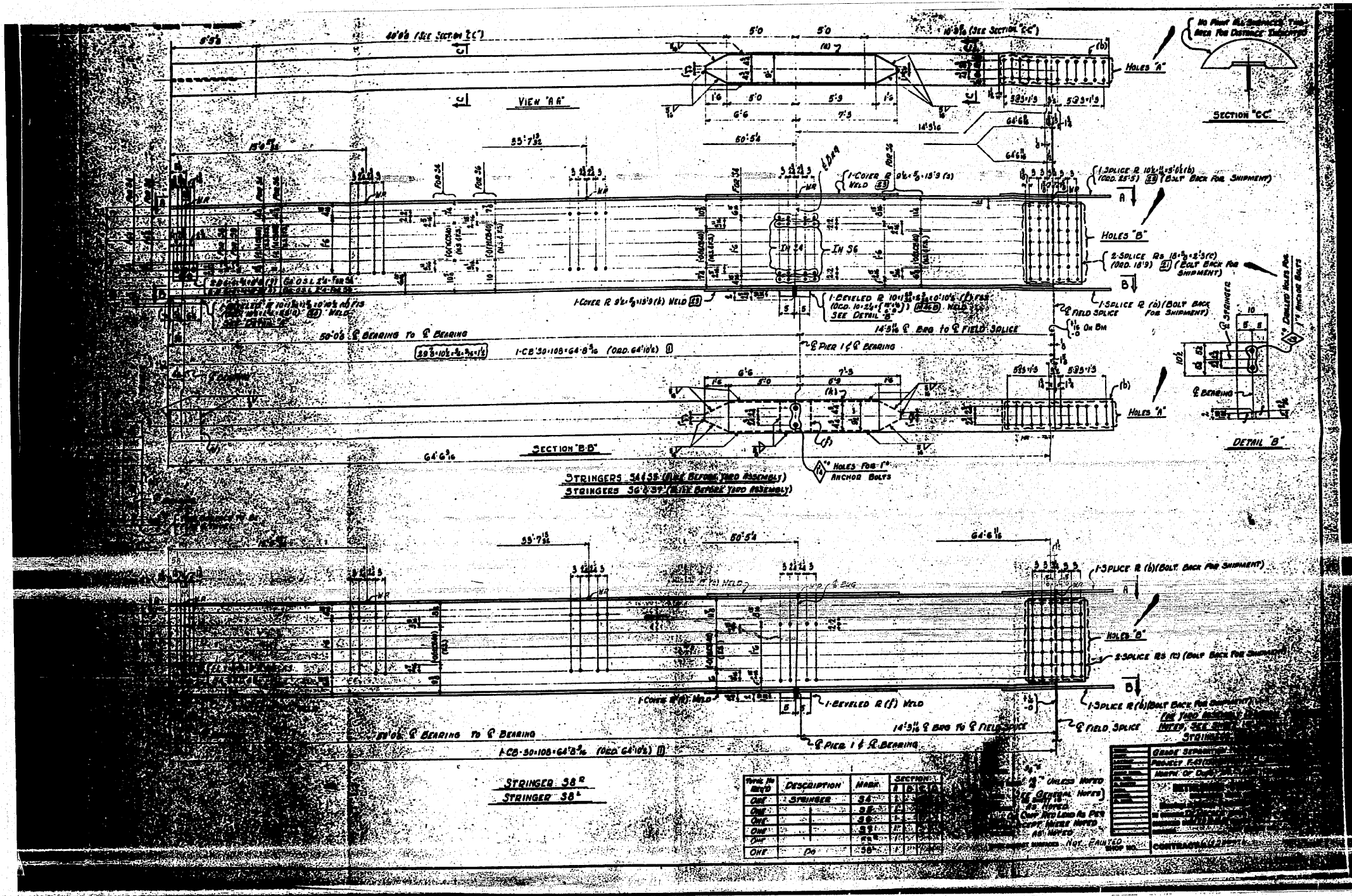
GRADE: Superstructure For Madison Pacific RR.
 PROJECT: F4703 THROUGH 4: SECTION 64-117
 COUNTY: ST. CLAIR COUNTY, ILLINOIS

DETAILS

DETAILS: SEE SHEET 16
 CONTRACT: CQ2364-1

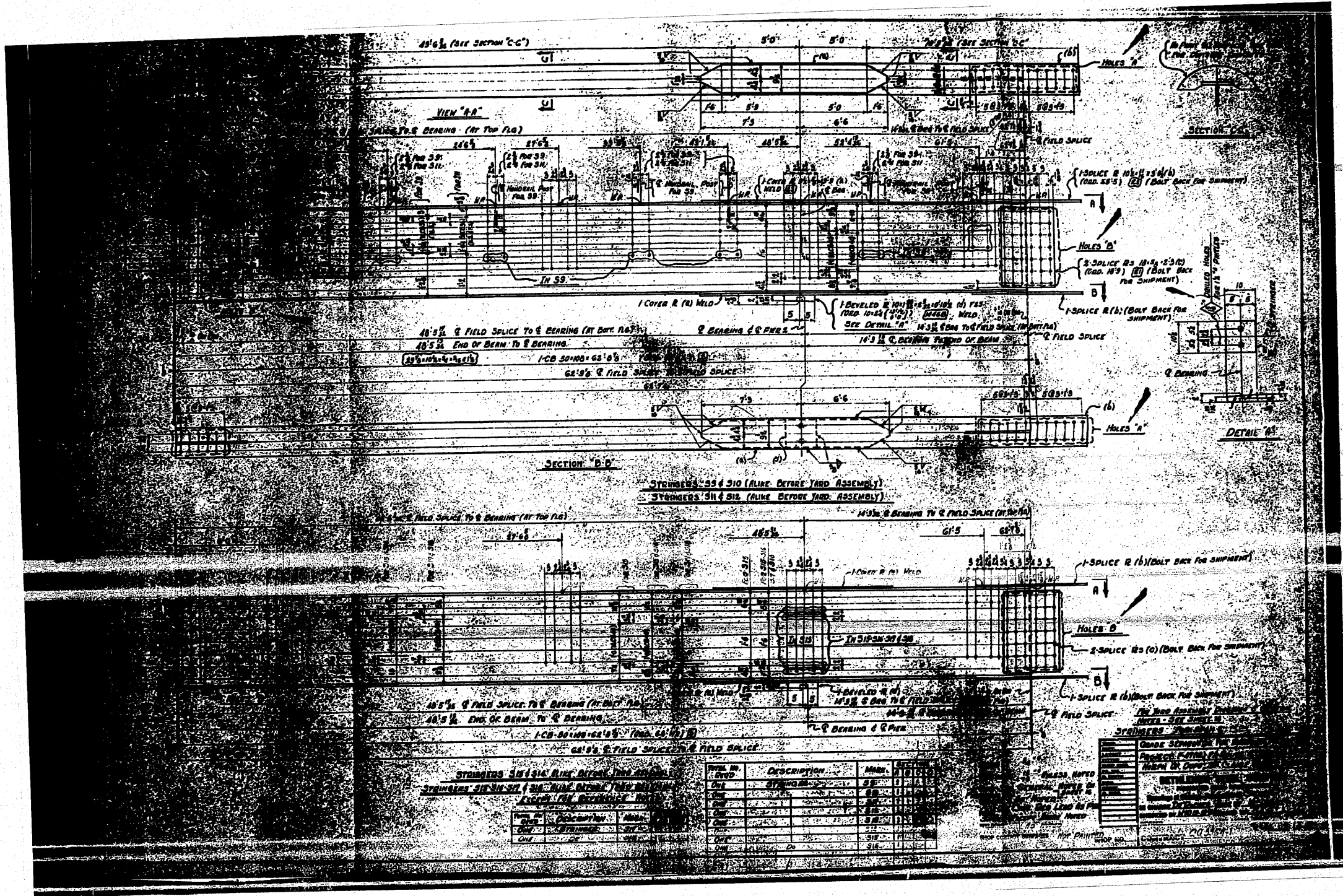
FOR INFORMATION ONLY

FILE NAME =	USER NAME = tharp1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
82-shr-fab-plans.dgn	DRAWN -	REVISED -	312			64-1VBR	ST. CLAIR	259	184	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 76882							
PLOT DATE = 5/17/2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							



FOR INFORMATION ONLY

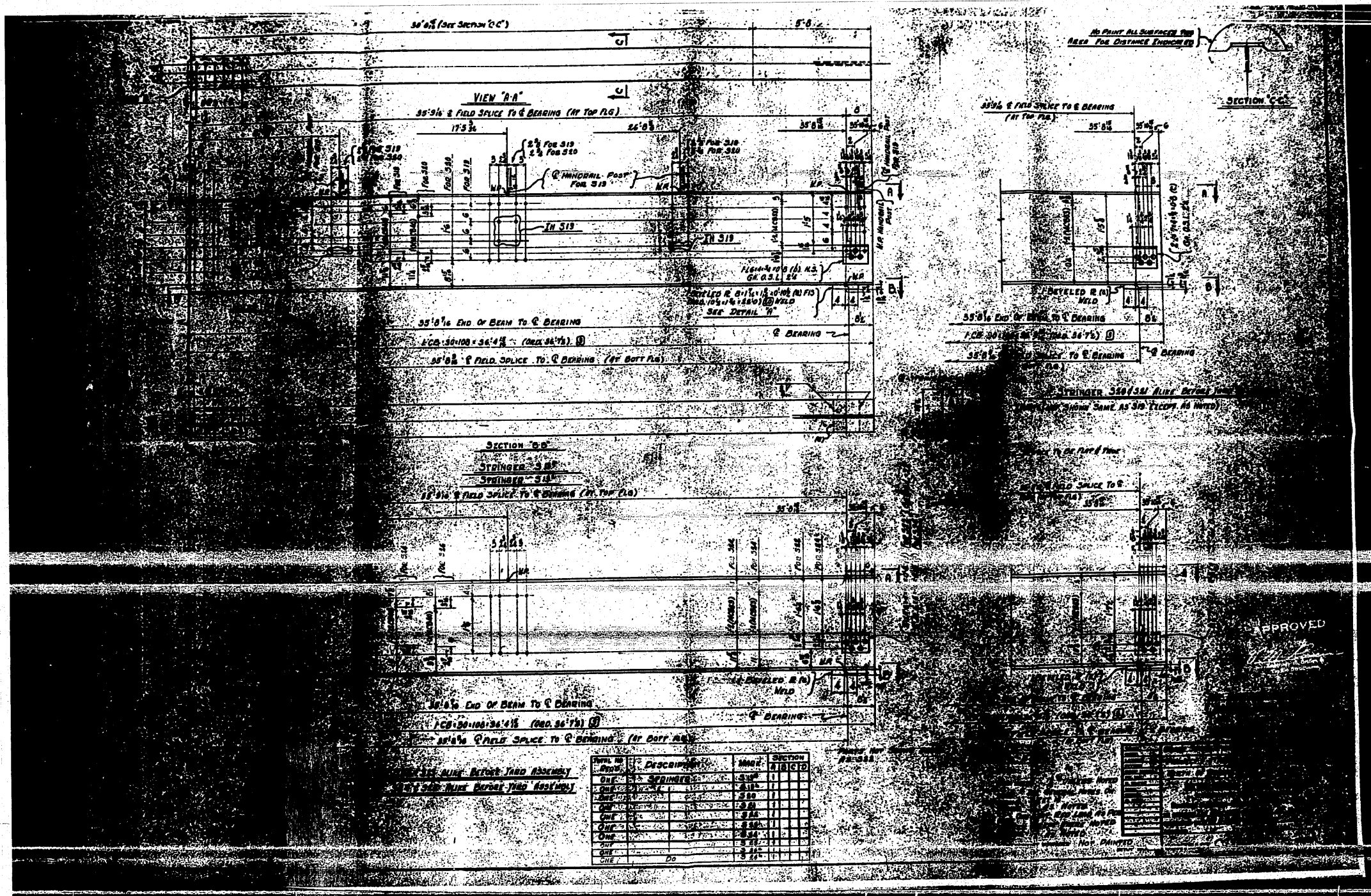
FILE NAME =	USER NAME = tharp1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\tharp1\dms71738\087682-sht-fab-plans.dgn		DRAWN -	REVISED -			312	64-1VBR	ST. CLAIR	259	185	
PLOT SCALE = 58.0000 1/ IN.		CHECKED -	REVISED -			SCALE: N/A		SHEET NO. OF 67 SHEETS		STA. TO STA.	CONTRACT NO. 76882
PLOT DATE = 5/17/2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



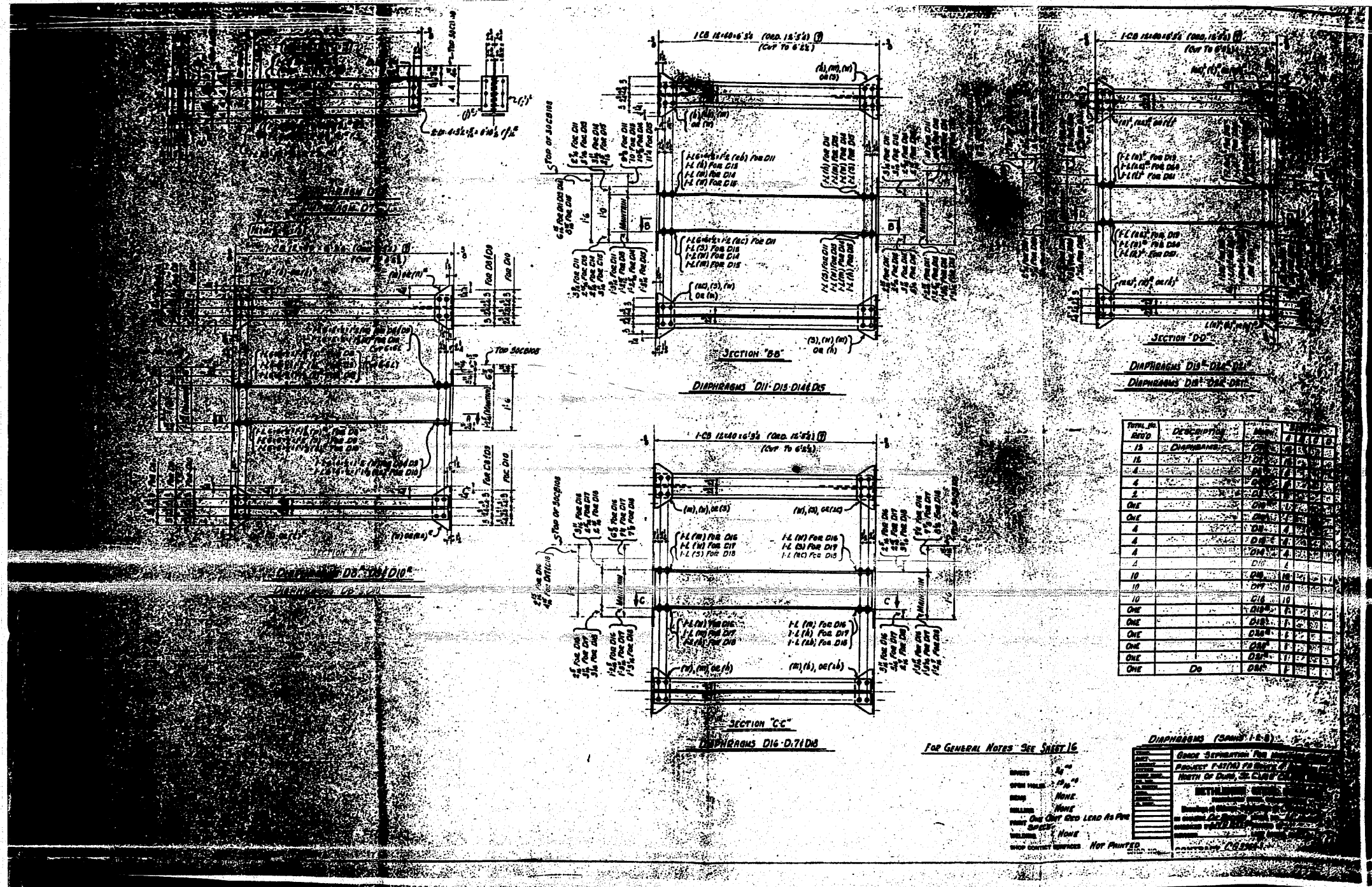
ITEM NO.	DESCRIPTION	QTY	UNIT	REVISION
1	STRONGS 3/4" x 3/4" (A) WELD	1	LINEAL FT	
2	STRONGS 3/4" x 3/4" (B) WELD	1	LINEAL FT	
3	STRONGS 3/4" x 3/4" (C) WELD	1	LINEAL FT	
4	STRONGS 3/4" x 3/4" (D) WELD	1	LINEAL FT	
5	STRONGS 3/4" x 3/4" (E) WELD	1	LINEAL FT	
6	STRONGS 3/4" x 3/4" (F) WELD	1	LINEAL FT	
7	STRONGS 3/4" x 3/4" (G) WELD	1	LINEAL FT	
8	STRONGS 3/4" x 3/4" (H) WELD	1	LINEAL FT	
9	STRONGS 3/4" x 3/4" (I) WELD	1	LINEAL FT	
10	STRONGS 3/4" x 3/4" (J) WELD	1	LINEAL FT	

GRADE	SECTION	COUNTY	TOTAL SHEET NO.
312	64-1VB	ST. CLAIR	259

FOR INFORMATION ONLY



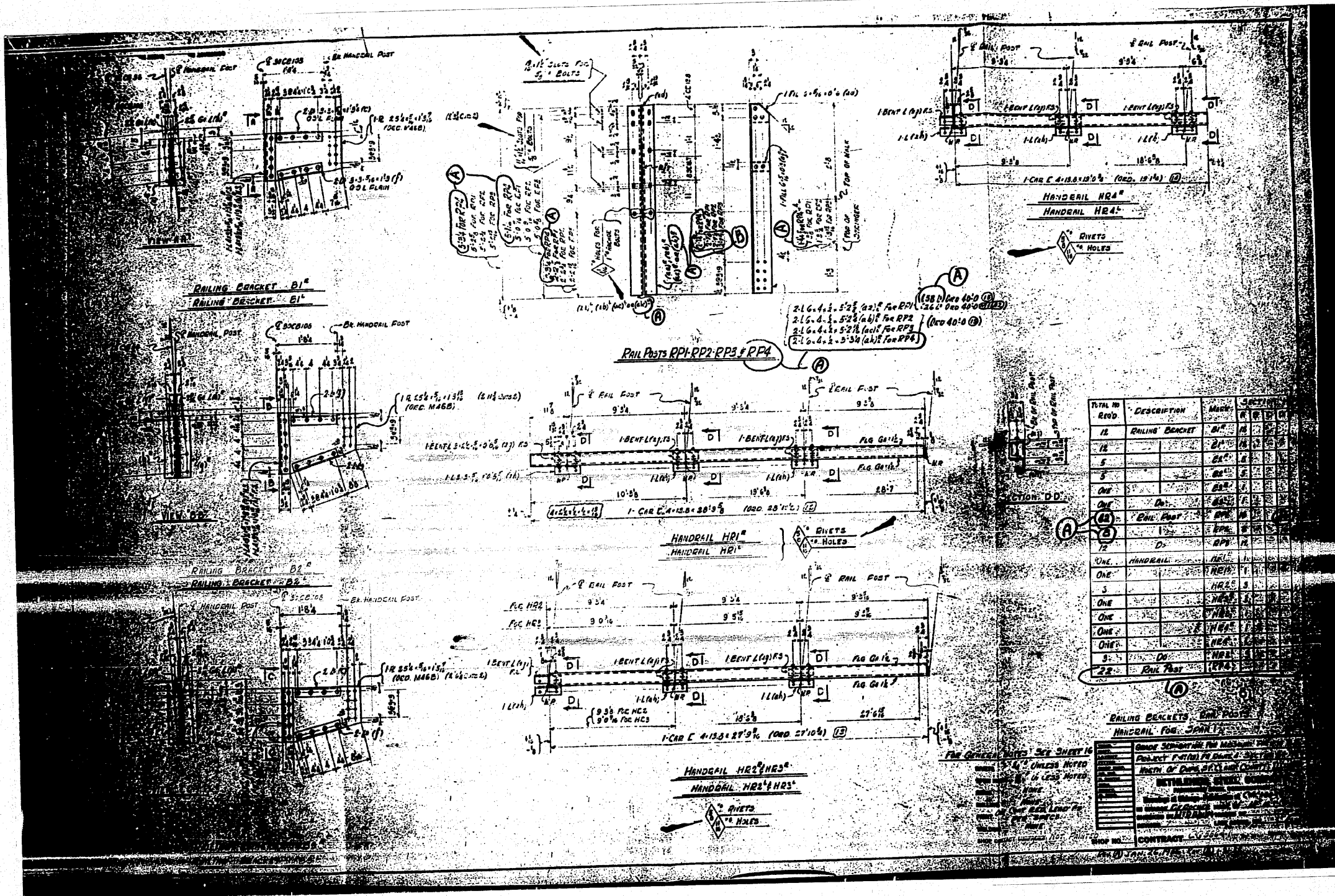
FOR INFORMATION ONLY



ITEM NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
15	DIAPHRAGM	1	SQ. FT.	1.00	1.00
16	DIAPHRAGM	1	SQ. FT.	1.00	1.00
4	DIAPHRAGM	1	SQ. FT.	1.00	1.00
4	DIAPHRAGM	1	SQ. FT.	1.00	1.00
2	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
4	DIAPHRAGM	1	SQ. FT.	1.00	1.00
4	DIAPHRAGM	1	SQ. FT.	1.00	1.00
2	DIAPHRAGM	1	SQ. FT.	1.00	1.00
10	DIAPHRAGM	1	SQ. FT.	1.00	1.00
10	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00

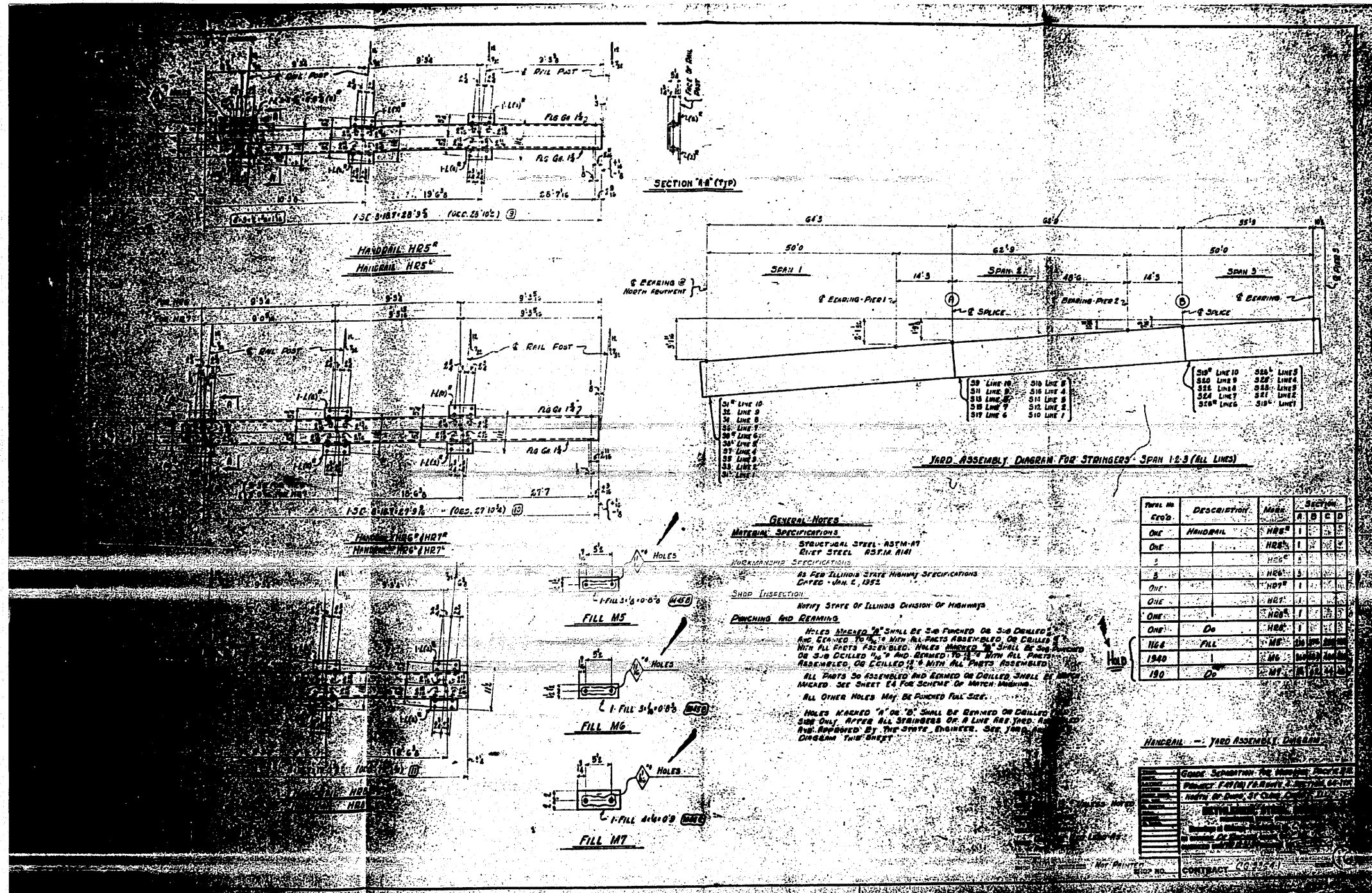
ITEM NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
15	DIAPHRAGM	1	SQ. FT.	1.00	1.00
16	DIAPHRAGM	1	SQ. FT.	1.00	1.00
4	DIAPHRAGM	1	SQ. FT.	1.00	1.00
4	DIAPHRAGM	1	SQ. FT.	1.00	1.00
2	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
4	DIAPHRAGM	1	SQ. FT.	1.00	1.00
4	DIAPHRAGM	1	SQ. FT.	1.00	1.00
2	DIAPHRAGM	1	SQ. FT.	1.00	1.00
10	DIAPHRAGM	1	SQ. FT.	1.00	1.00
10	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00
ONE	DIAPHRAGM	1	SQ. FT.	1.00	1.00

FOR INFORMATION ONLY



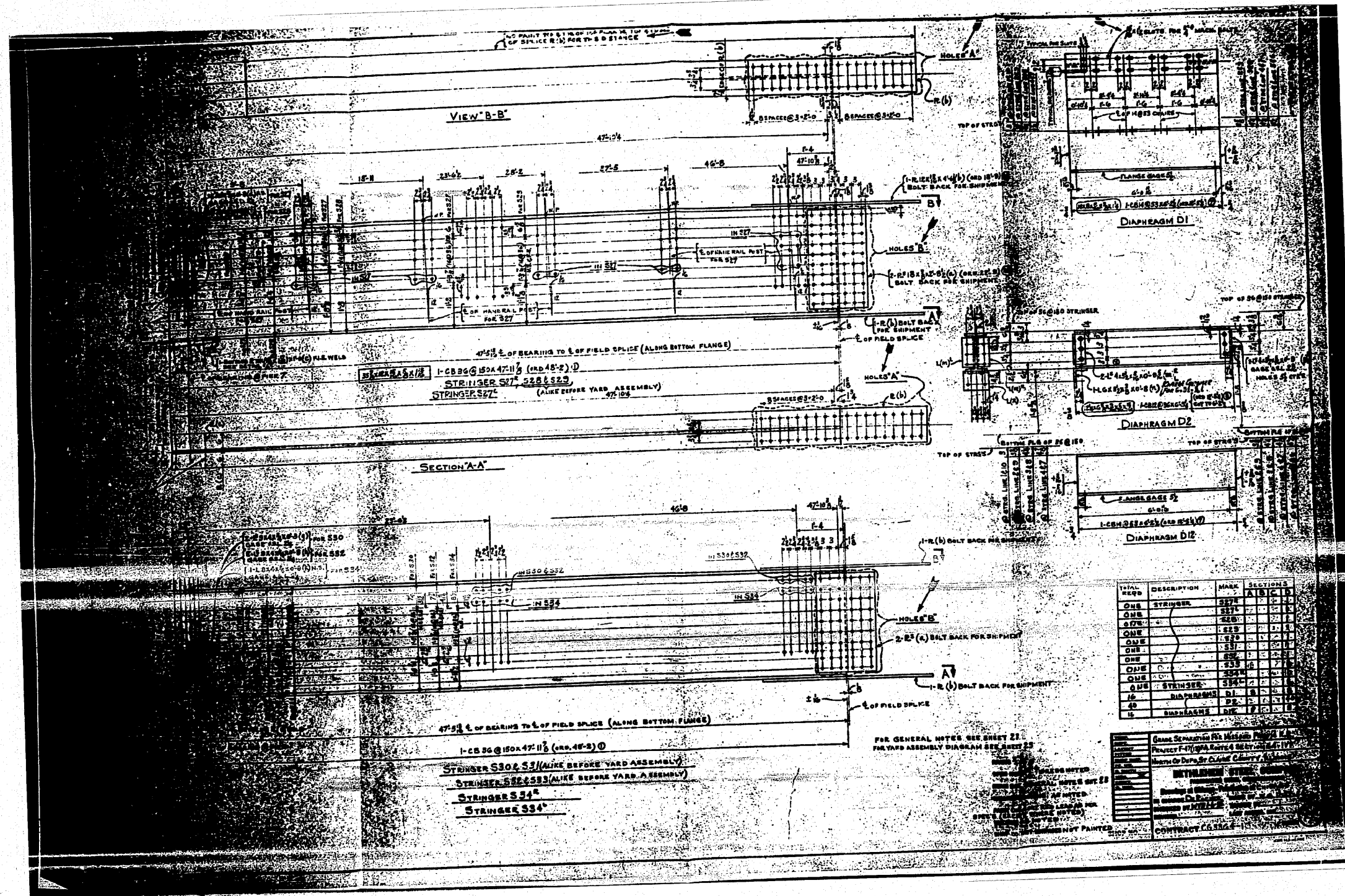
FOR INFORMATION ONLY

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CONTRACT NO. 76882																				
SCALE: N/A	SHEET NO. OF 67 SHEETS	STA. TO STA.																		
ILLINOIS FED. AID PROJECT																				



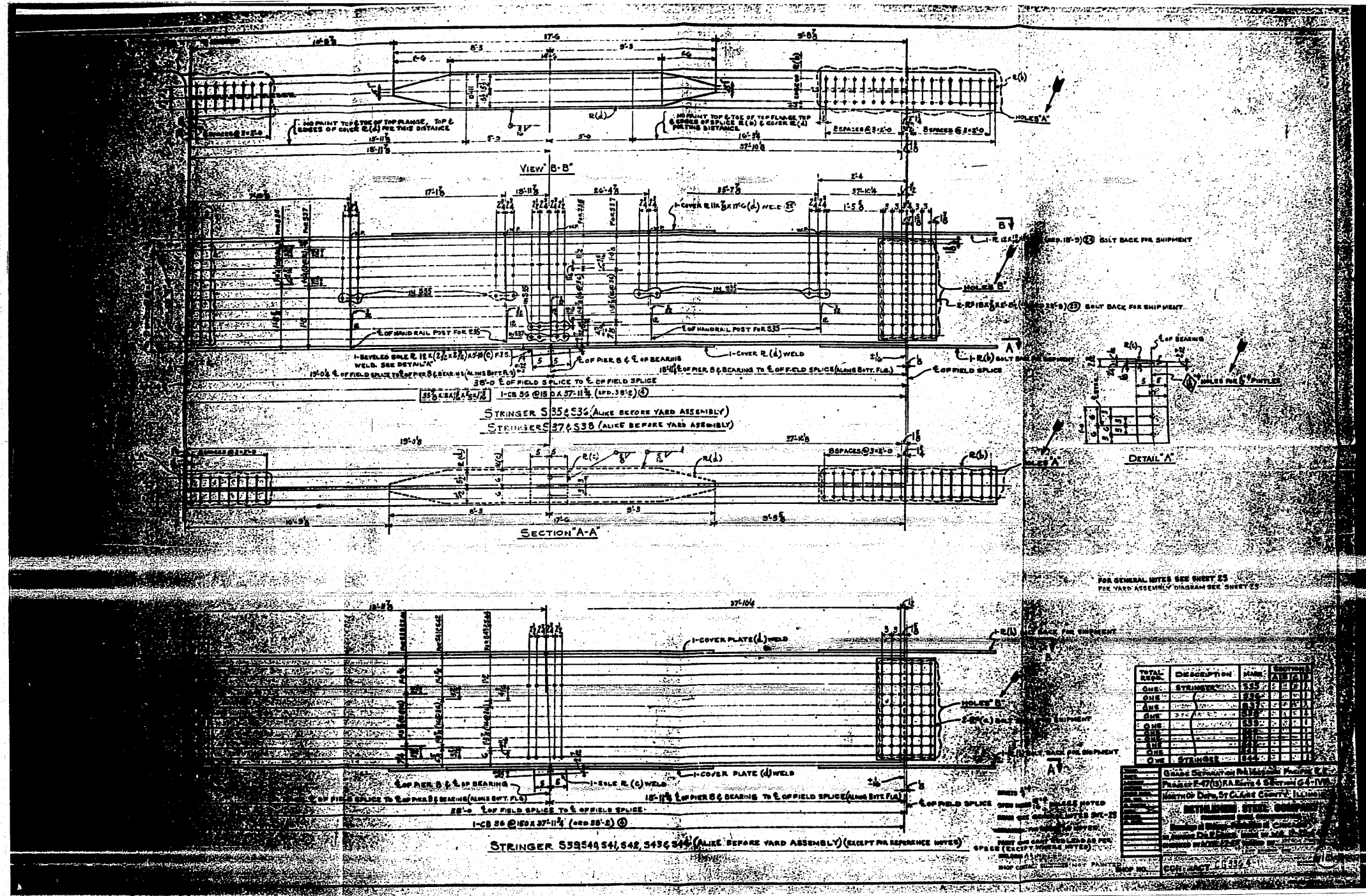
FOR INFORMATION ONLY

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es:\pwwork\pwwork\thpr1\dms71738\087682-shr-fab-plans.dgn	DRAWN -	REVISED -	312			64-1VBR	ST. CLAIR	259	190	
PLOT SCALE = 50.0000 / IN.	CHECKED -	REVISED -	CONTRACT NO. 76882							
PLOT DATE = 5/17/2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
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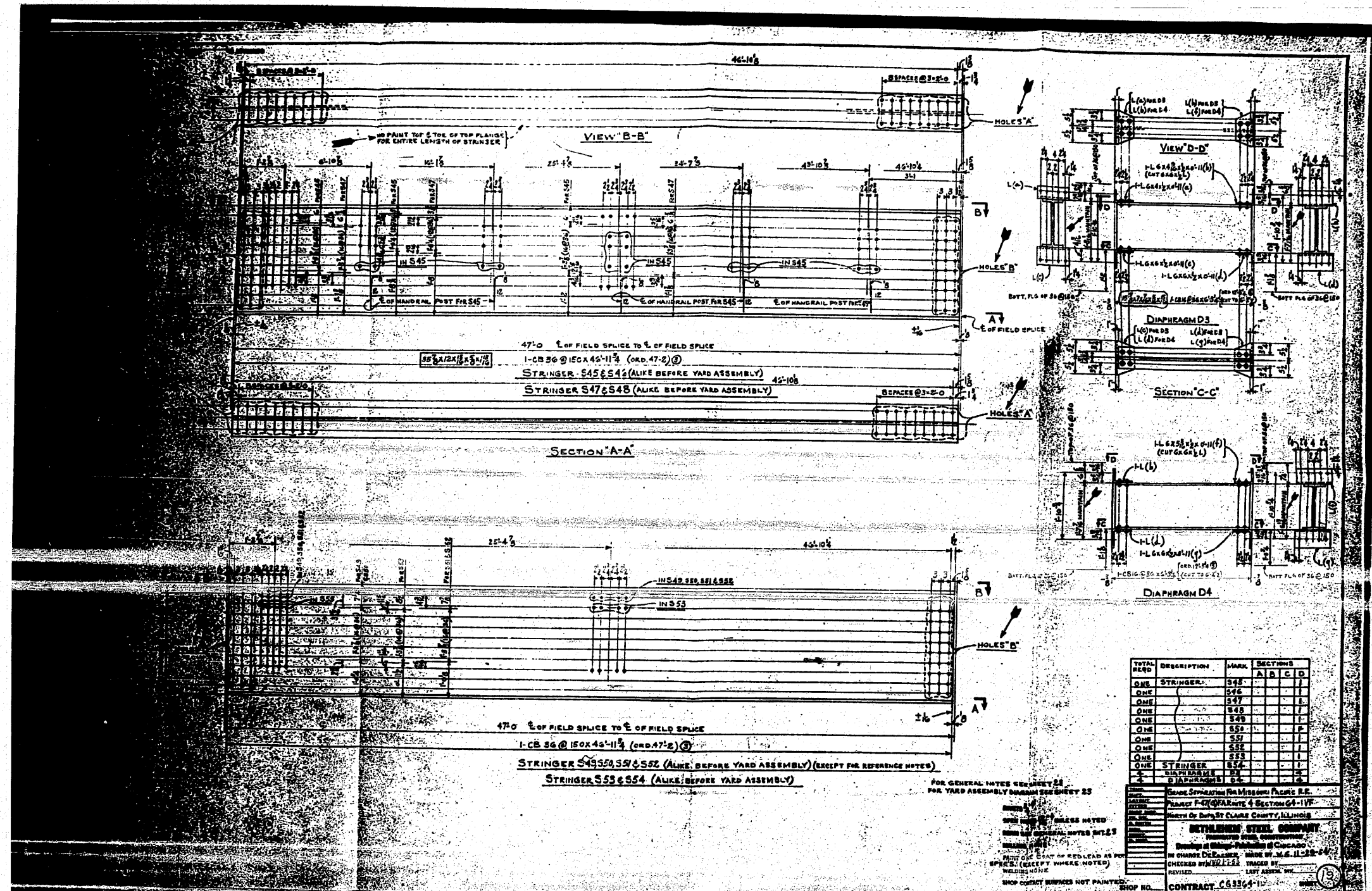
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ONE	STRINGER	S27	A1B1C1D
ONE		S27	A1B1C1D
ONE		S28	A1B1C1D
ONE		S29	A1B1C1D
ONE		S30	A1B1C1D
ONE		S31	A1B1C1D
ONE		S32	A1B1C1D
ONE		S33	A1B1C1D
ONE		S34	A1B1C1D
ONE	STRINGER	S34	A1B1C1D
ONE	DIAPHRAGM	D1	A1B1C1D
ONE	DIAPHRAGM	D2	A1B1C1D
ONE	DIAPHRAGM	D3	A1B1C1D

FOR INFORMATION ONLY



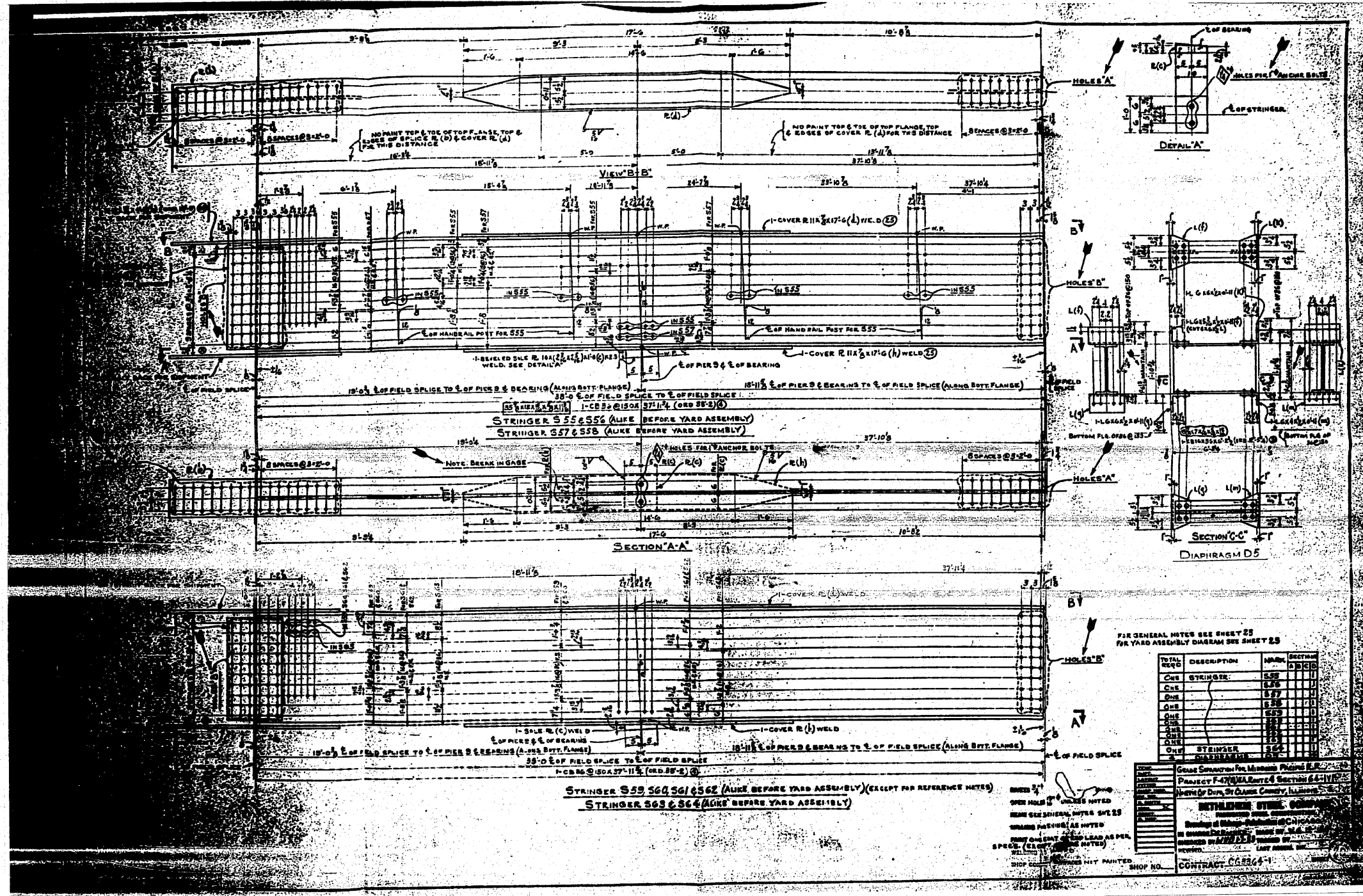
FOR INFORMATION ONLY

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or\p\work\p\dot\tharp1\dms71738\0876882-ght-fob-plans.dgn	PLOT SCALE = 58.0000 / IN.	CHECKED -	REVISED -			SCALE: N/A	SHEET NO. OF 67 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			
PLOT DATE = 5/17/2010	DATE -	REVISED -	REVISED -									
CONTRACT 76882												

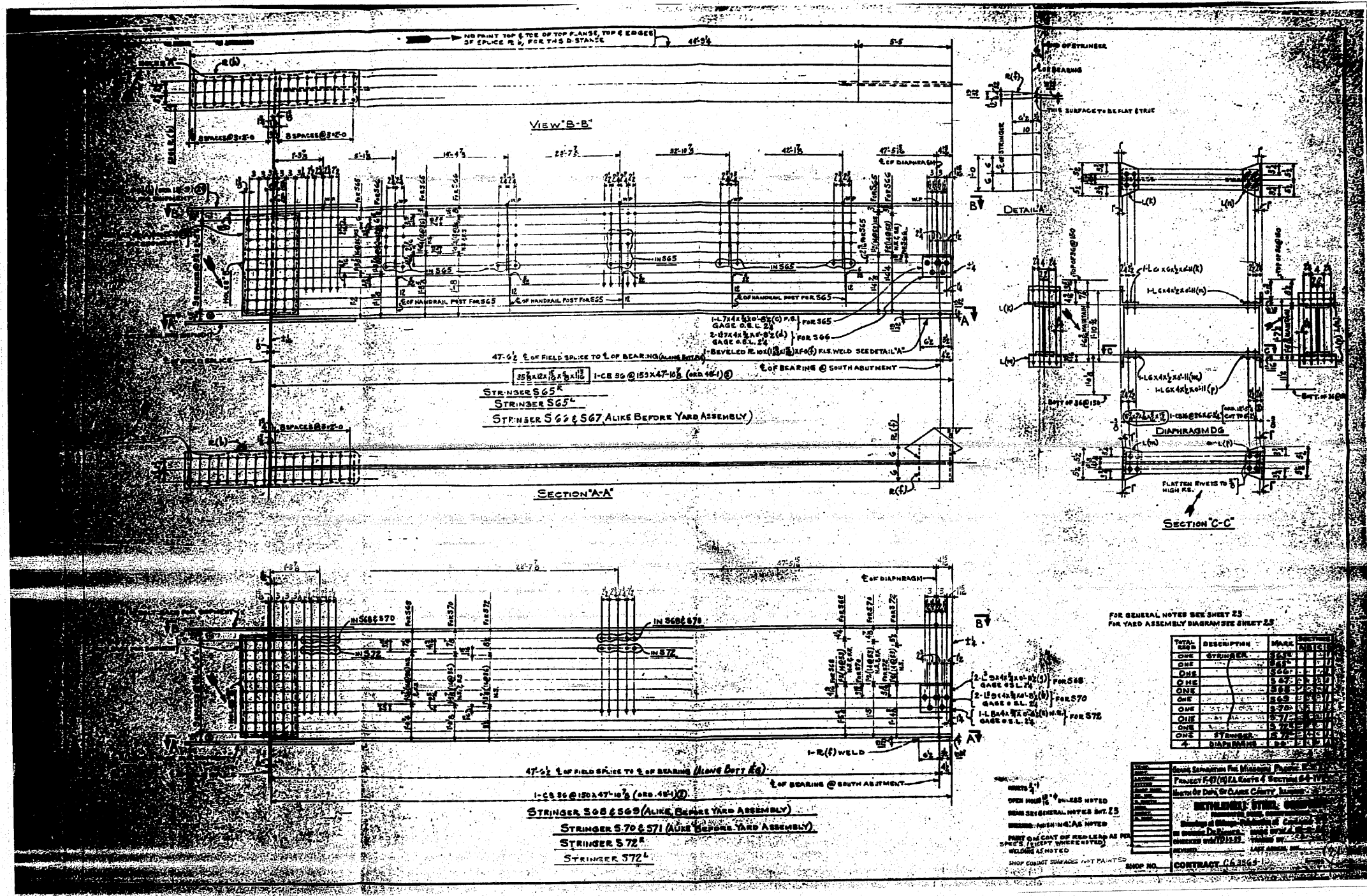


FOR INFORMATION ONLY

FILE NAME	USER NAME	DESIGNED	REVISD	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		EXISTING STEEL SHOP DRAWINGS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
c:\pwwork\p\idot\tharp\1\dms71738\087682-sht-fab-plans.dgn	tharp1	-	-	SCALE: N/A	SHEET NO. OF 67 SHEETS	STA.	TO STA.	312	64-1VBR	ST. CLAIR	257	193
PLOT SCALE = 58.8000 / IN.		CHECKED -	REVISD -	CONTRACT NO. 76882						ILLINOIS FED. AID PROJECT		
PLOT DATE = 5/17/2010		DATE -	REVISD -									

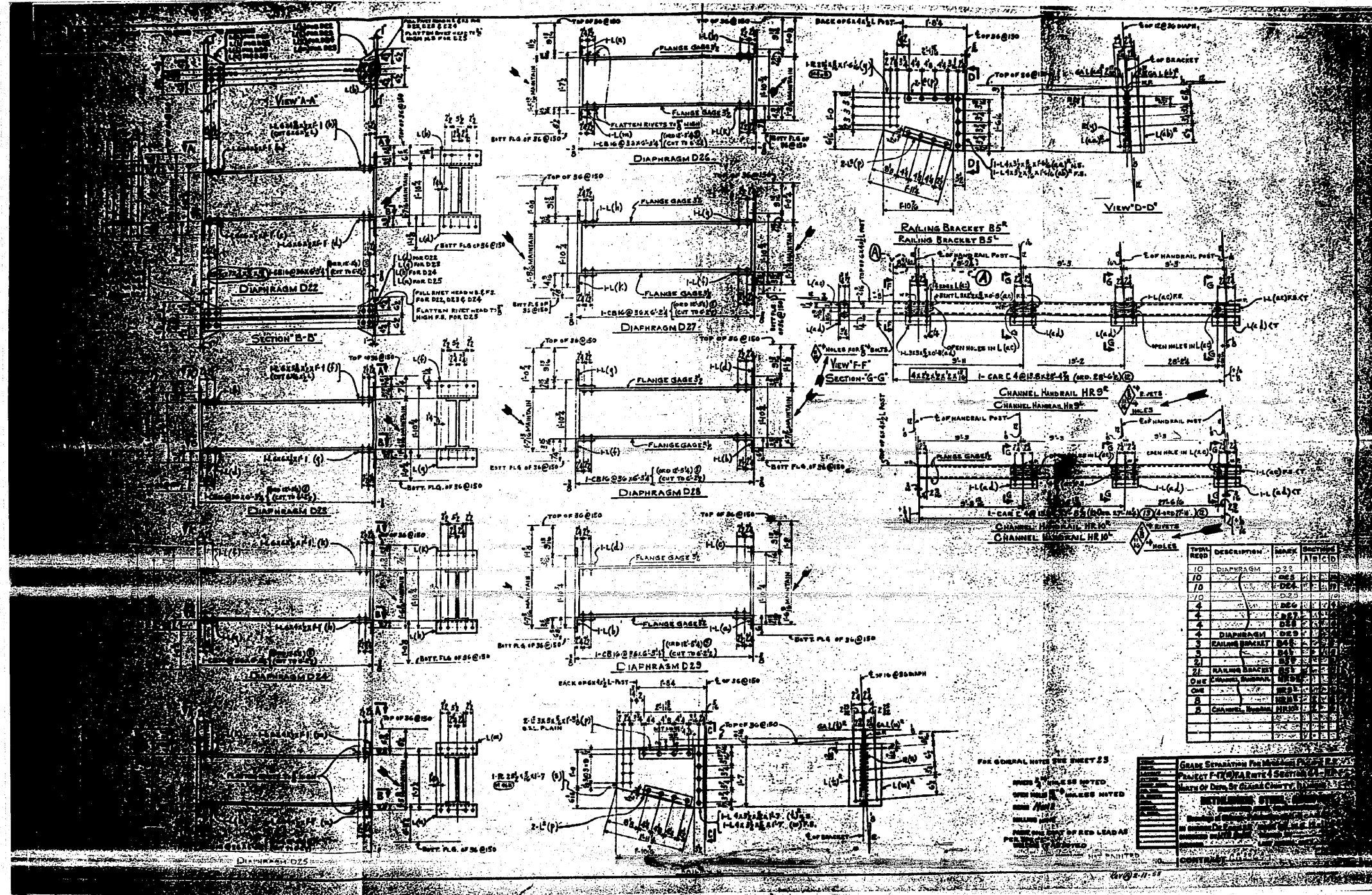


FOR INFORMATION ONLY

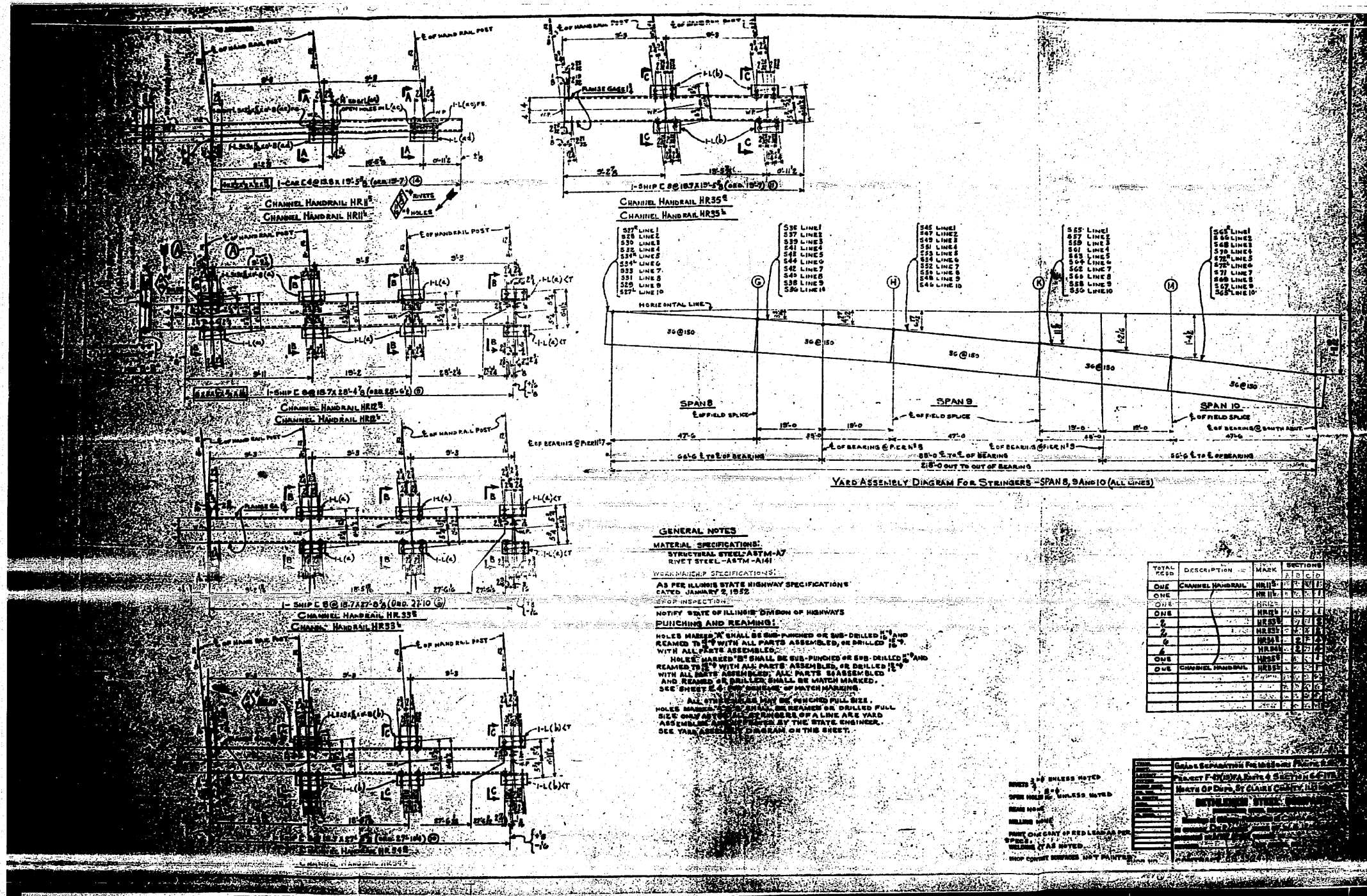


FOR INFORMATION ONLY

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ca:\pr_work\p1dot\tharpr1\dms71738\0876882-sht-fab-plans.dgn		DRAWN -	REVISED -			312	64-1VBR	ST. CLAIR	259	195	
PLOT SCALE = 50.0000 / IN.		CHECKED -	REVISED -			CONTRACT NO. 76882					
PLOT DATE = 5/17/2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
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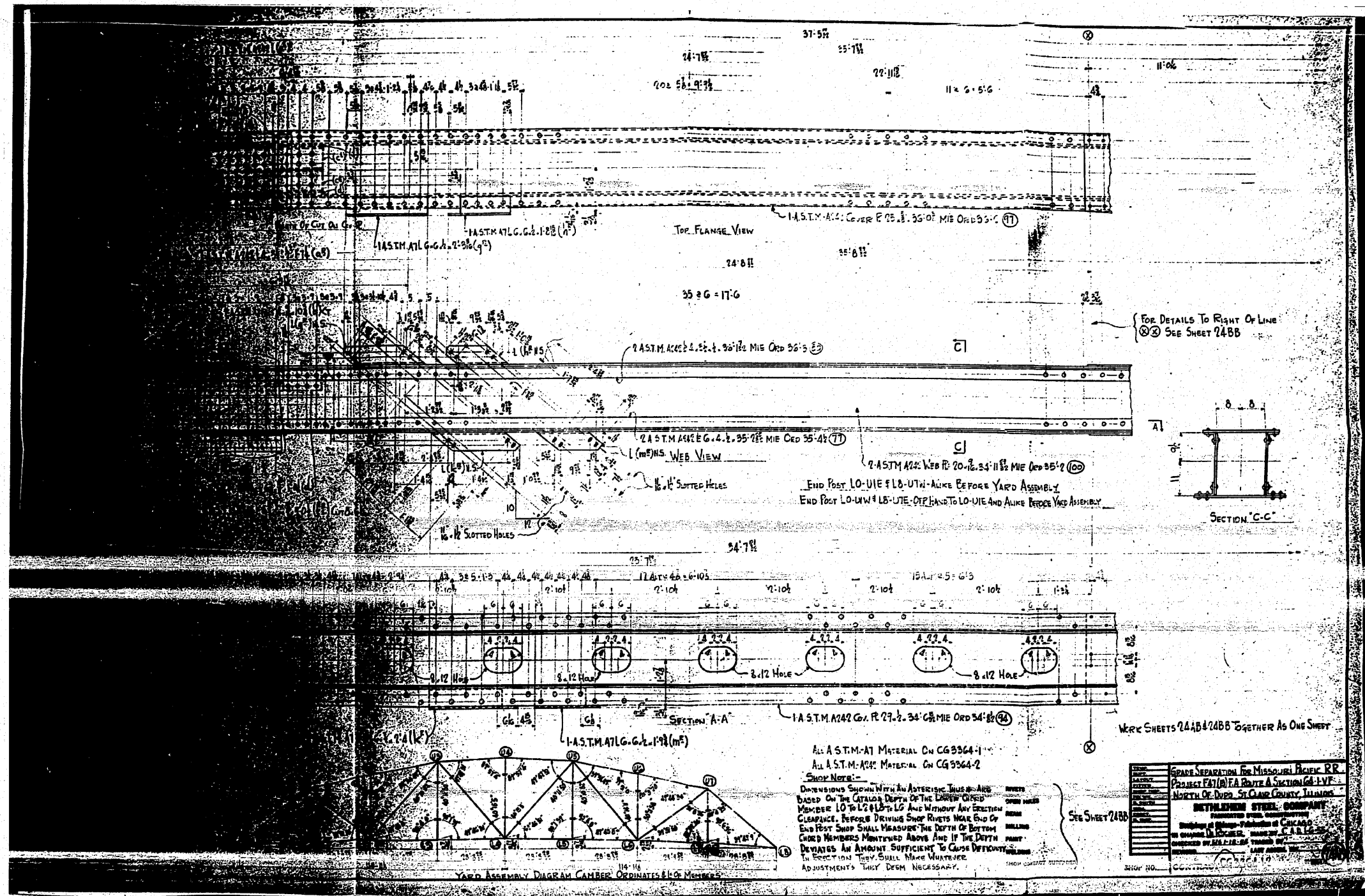


FOR INFORMATION ONLY



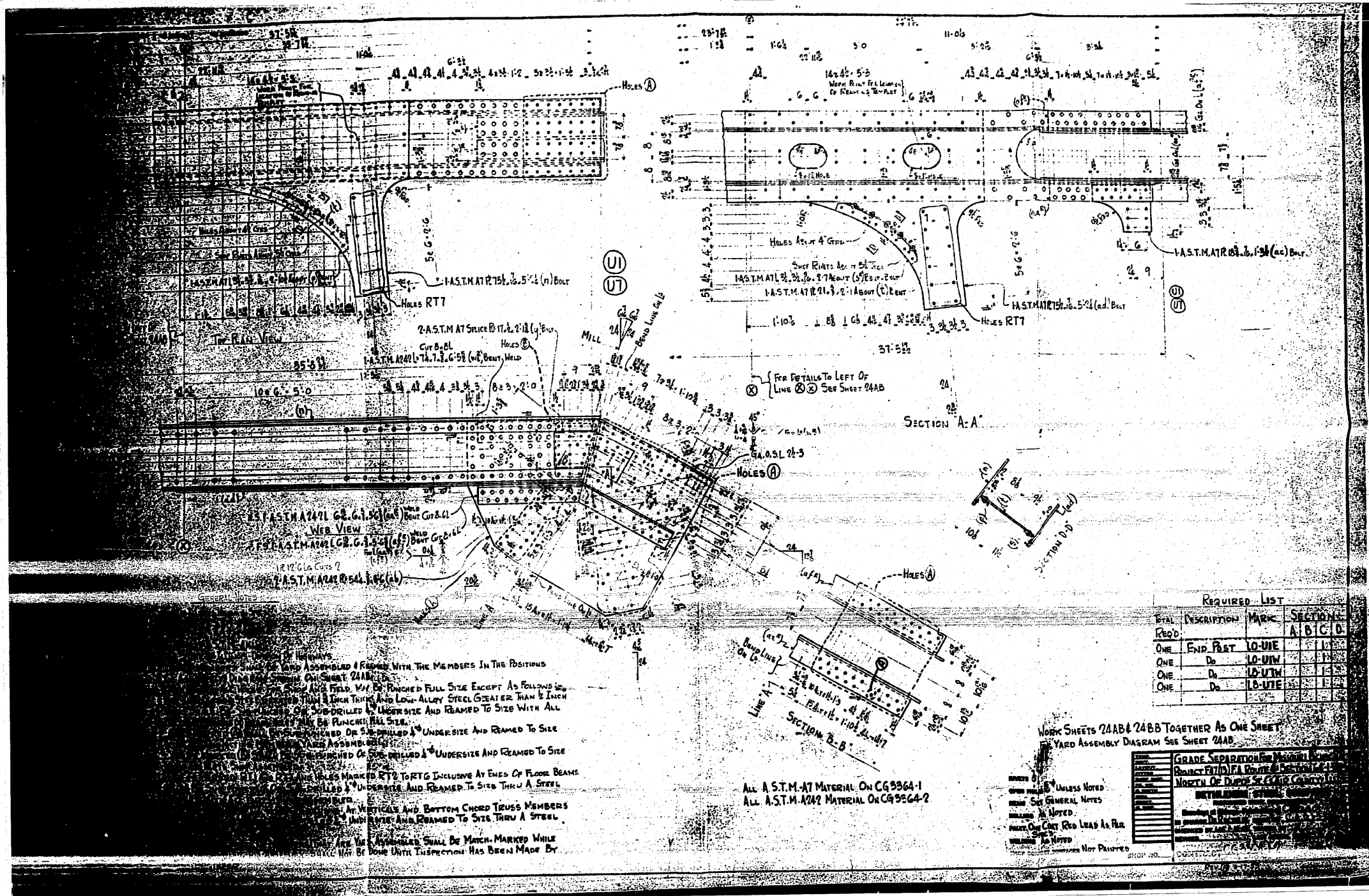
FOR INFORMATION ONLY

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ct:\p\work\p\dot\tharp1\dms71738\06766	82-shr-fab-plans.dgn	DRAWN -	REVISED -			312	64-1VBR	ST. CLAIR	259	197
PLOT SCALE = 50.0000 / IN.	CHECKED -	REVISED -	CONTRACT NO. 76882			ILLINOIS FED. AID PROJECT				
PLOT DATE = 5/17/2010	DATE -	REVISED -	SCALE: N/A			SHEET NO. OF 67 SHEETS	STA. TO STA.			



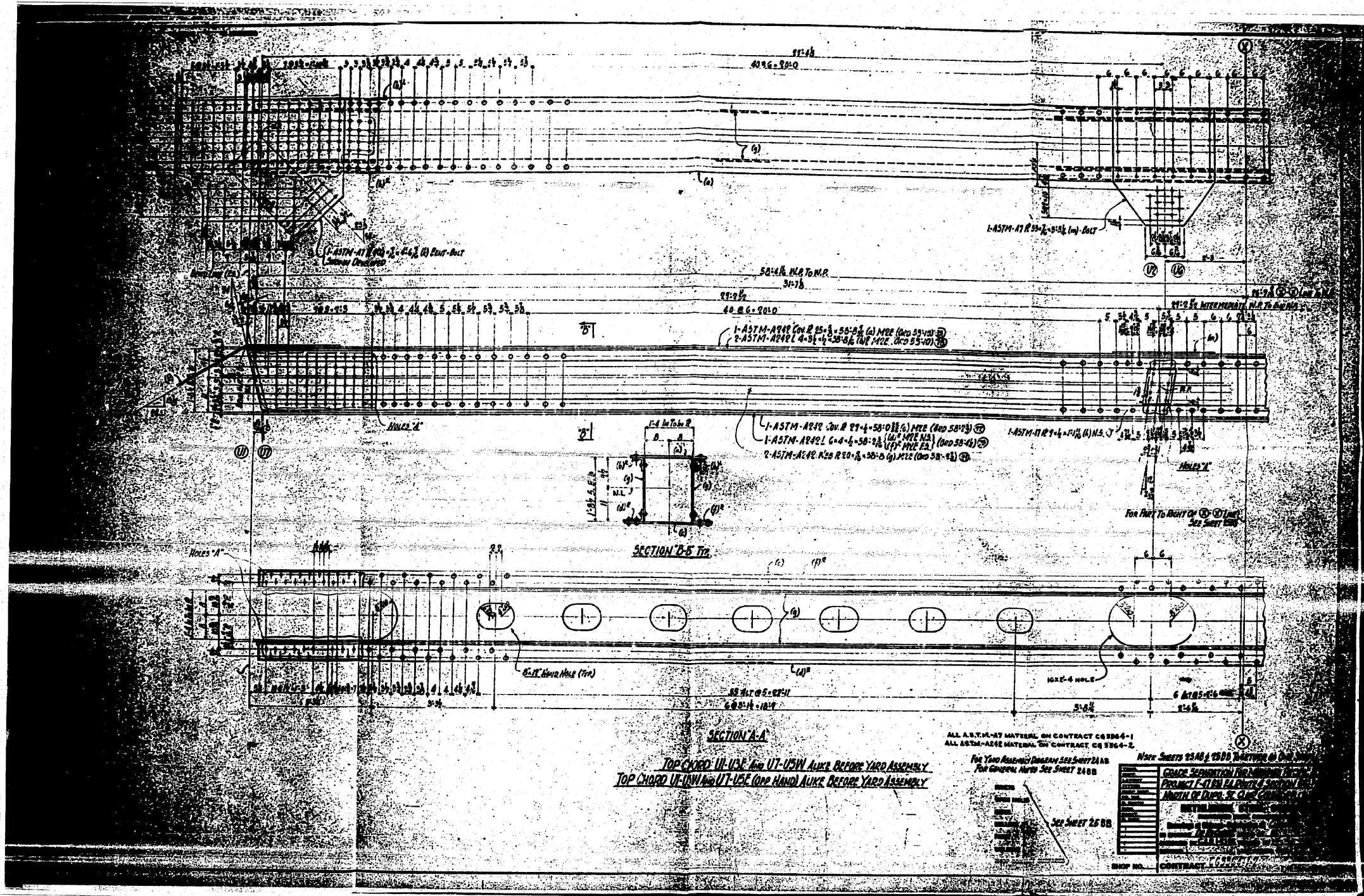
FOR INFORMATION ONLY

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ca:\pr_work\p1dot\thprp1\dms71738\0876882-ahf-fab-plens.dgn	DRAWN -	REVISED -	312			64-1VBR	ST. CLAIR	259	198	
PLOT SCALE = 50.0000 / IN.	CHECKED -	REVISED -	CONTRACT NO. 76882							
PLOT DATE = 5/17/2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE: N/A						SHEET NO. OF 67 SHEETS		STA. TO STA.		



FOR INFORMATION ONLY

FILE NAME =	USER NAME = thpr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STEEL SHOP DRAWINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
en:\pwwork\pwwork\thpr1\dms71738\0876892-shr-fab-plans.dgn	DRAWN -	REVISED -	312			64-1VBR	ST. CLAIR	259	199	
PLOT SCALE = 50.0000 / IN.	CHECKED -	REVISED -	CONTRACT NO. 76882							
PLOT DATE = 5/17/2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE: N/A						SHEET NO. OF 67 SHEETS		STA. TO STA.		



FOR INFORMATION ONLY

FILE NAME =	USER NAME =
ca:\pwork\pwork\sharp-1\dms71738\087682-sht-fab-plans.dgn	therpr1
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 5/17/2018	

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STEEL SHOP DRAWINGS
SCALE: N/A SHEET NO. OF 67 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	200
CONTRACT NO. 76882			ILLINOIS FED. AID PROJECT	