

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
 STATE BOND ISSUE HIGHWAY**

STATE ROAD DIST. NO.	SEC.	COUNTY	TOTAL LENGTH	SHEET NO.
FA 31	15B-I-2	PEORIA & TAZEWELL	31	1

P-94-106-72

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET AND INDEX OF SHEETS
2.	SUMMARY OF QUANTITIES
3.	BRIDGE DETAILS
4.	PIER NO. 7 DETAILS
5.	PIER NO. 10 DETAILS
6.	PIER NO. 12 DETAILS
7.	PIER NO. 11 DETAILS (FOR REFERENCE ONLY)
8.	PIERS NO. 10 AND 13 DETAILS (FOR REFERENCE ONLY)
9.	PIER NO. 13 DETAILS (FOR REFERENCE ONLY)
10.	PIERS NO. 11 AND 12 DETAILS (FOR REFERENCE ONLY)
11-14	TRAFFIC CONTROL AND PROTECTION SPECIAL
15-31	BRIDGE PLANS
15.	GENERAL PLAN AND ELEVATION
16.	GRID UNIT PLACEMENT SPANS 6 THRU 9
17.	GRID UNIT PLACEMENT SPANS 10 THRU 12
18.	GRID UNIT PLACEMENT SPANS 13 AND 14
19.	GRID UNIT PLACEMENT SPANS 15 THRU 17
20.	GRID UNIT PLACEMENT SPANS 18 THRU 26
21.	DRAIN DETAILS AND GRID UNIT PLACEMENT SPANS 27 THRU 30
22.	GRID DETAILS SPANS 6 THRU 17 AND 24 THRU 30
23.	GRID UNIT DETAILS "A" THRU "J"
24.	GRID UNIT DETAILS "K" THRU "R" AND "W" THRU "Z"
25.	GRID DETAILS SPANS 18 THRU 23
26.	EXPANSION JOINT DETAILS PIER 4
27.	EXPANSION JOINT DETAILS PIERS 7 AND 10
28.	EXPANSION JOINT DETAILS PIER 13
29.	EXPANSION JOINT DETAILS PIERS 16 AND 19
30.	PRESSURE RELIEF AND EXPANSION JOINT DETAILS PIERS 22, 25, 28 AND E. ABUT
31.	STEEL BRACING

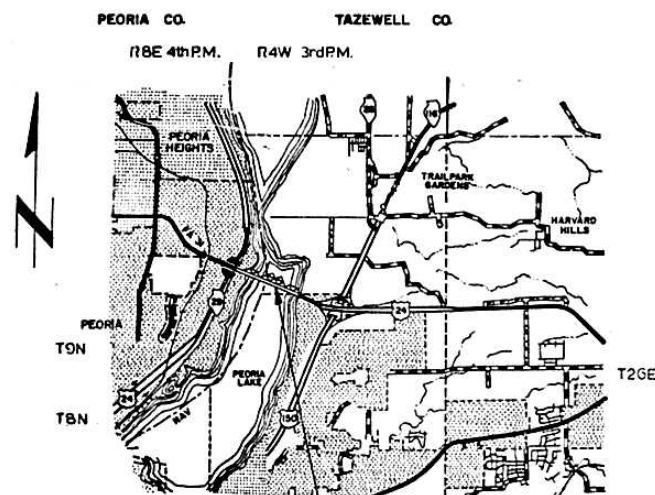
SCALES
 PLAN 1 INCH = 100 FT.
 PROFILE HOR. 1 INCH = 100 FT.
 PROFILE VERT. 1 INCH = 10 FT.
 CROSS-SECTIONS 1 INCH = 8 FT.

FA 31
 SECTION 15B-I-2
 PEORIA-TAZEWELL COUNTY
 PROJECT U-609(12)

C-94-301-74



STANDARDS: 2113 -1
 2298 -4
 2299 -5
 2300 -1



Mc CLUGAGE BRIDGE

PROJECT BEGINS STA. 198+96.01
 PROJECT ENDS STA. 246+41.25

LENGTH of PROJECT = 4745.24 FT. = 0.899 MILES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

2-4-74
 J. W. Miller
 Feb 11 1974
 Feb 11 1974
 Feb 11 1974
 J. W. Miller
 DIRECTOR OF HIGHWAYS

DEPARTMENT OF TRANSPORTATION
 APPROVED BY
 Jay W. Miller
 DIVISION CHIEF
 2/22/74
 DYE

by J. W. Miller

CONTRACT NO. 29907

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
STATE BOND ISSUE HIGHWAY

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 31	15B-1-2	PEORIA & TAZEWELL	31	1
FED ROAD DIV NO. 4		ILLINOIS	PROJECT U-609(12)	

P-94-106-72

INDEX OF SHEETS

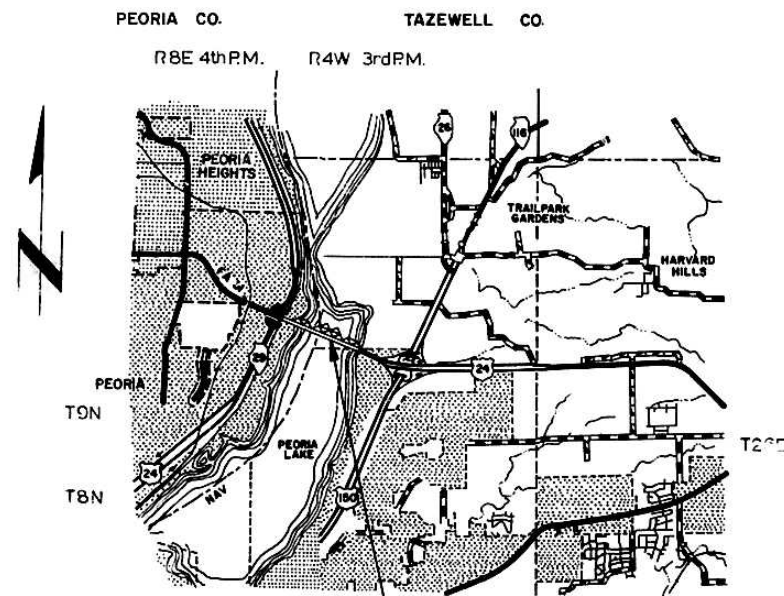
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26	EXPANSION JOINT DETAILS PIER 4
27	EXPANSION JOINT DETAILS PIERS 7 AND 10
28	EXPANSION JOINT DETAILS PIER 13
29	EXPANSION JOINT DETAILS PIERS 16 AND 19
30	PRESSURE RELIEF AND EXPANSION JOINT DETAILS PIERS 22, 25, 28 AND C. ADUT
31	STEEL RAILING

STANDARDS: 2113 -1
2290 -4
2299 -5
2300 -1

SCALES
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PROFILE, HOR. 1 INCH = 100 FT.
PROFILE, VERT. 1 INCH = 10 FT.
CROSS-SECTIONS 1 INCH = 8 FT.

FA 31
SECTION 15B-I-2
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PROJECT ENDS STA. 246+41.25

LENGTH of PROJECT = 4745.24 FT. = 0.899 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 2-4-74
EXAMINED Feb 11, 1974
PASSED Feb 11, 1974
APPROVED Feb 11, 1974

DIRECTOR OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION

DIVISION OF DESIGN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SEC.	COUNTY	SHEET NO.	TOTAL SHEETS
FA 31	1-2	PEORIA & TAZEWELL	31	14

P-94-106-72

PLANS FOR PROPOSED
STATE BOND ISSUE HIGHWAY

SCALE: 1" = 1000'

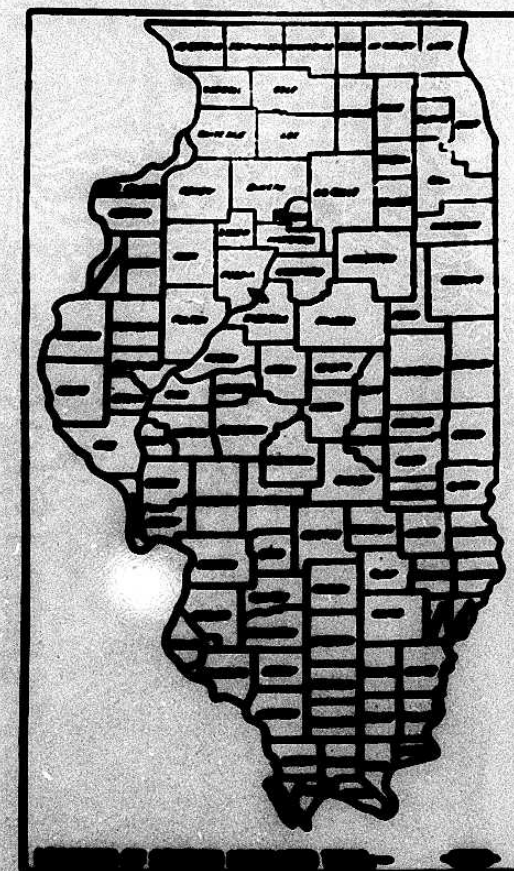
FA 31
SECTION 15B-1-2
PEORIA-TAZEWELL COUNTY
PROJECT U-609(12)

C-94-301-74

INDEX OF SHEETS

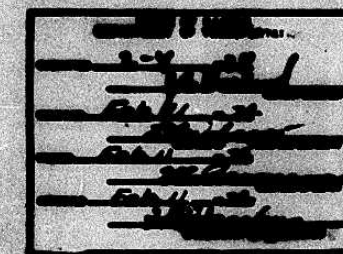
- 10- COVER SHEET AND INDEX OF SHEETS
- 11- SUMMARY OF QUANTITIES
- 12- BRIDGE DETAILS
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- 15A- 15A-00 GENERAL PLAN AND ELEVATION
- 16. GRID UNIT PLACEMENT SPANS 6 THRU 9
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- 15A-10. GRID UNIT PLACEMENT SPANS 13 AND 14
- 15A-20. GRID UNIT PLACEMENT SPANS 15 THRU 17
- 20. GRID UNIT PLACEMENT SPANS 18 THRU 20
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- 29. EXPANSION JOINT DETAILS PIERS 16 AND 19
- 30. PRESSURE RELIEF AND EXPANSION JOINT DETAILS PIERS 22, 25, 28 AND T. ACUT
- 31. STEEL RAILING

STANDARDS: 2010 - 0
2020 - 0
2030 - 0
2040 - 0



PROJECT BEGINS STA. 188+00.01
PROJECT ENDS STA. 240+41.25

LENGTH OF PROJECT = 4745.24 FT. = 0.899 MILES



DATE: _____

DIVISION: _____

CONTRACT NO. 89907

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
STATE BOND ISSUE HIGHWAY**

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
FA 31	15B-I-2	1	1

P-94-106-72

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1A - GENERAL PLAN

15A - GENERAL PLAN

16 - GRID UNIT PLACEMENT SPANS 1 THROUGH 3

17 - GRID UNIT PLACEMENT SPANS 4 THROUGH 6

18A - GRID UNIT PLACEMENT SPANS 7 AND 8

19A - GRID UNIT PLACEMENT SPANS 9 THROUGH 12

20 - GRID UNIT PLACEMENT SPANS 13 THROUGH 20

21 - GRID DETAILS AND GRID UNIT PLACEMENT SPANS 27 THROUGH 30

22 - GRID DETAILS SPANS 6 THROUGH 12 AND 24 THROUGH 30

23A - GRID UNIT DETAILS A THROUGH J

24A - GRID UNIT DETAILS K THROUGH R AND SPANS 12 THROUGH 23

25 - GRID DETAILS SPANS 10 THROUGH 23

26 - EXPANSION JOINT DETAILS PIER 4

27 - EXPANSION JOINT DETAILS PIERS 7 AND 10

28A - EXPANSION JOINT DETAILS PIER 13

29A - EXPANSION JOINT DETAILS PIERS 16 AND 19

30 - PRESSURE RELIEF AND EXPANSION JOINT DETAILS PIERS 22, 25, 28 AND 31

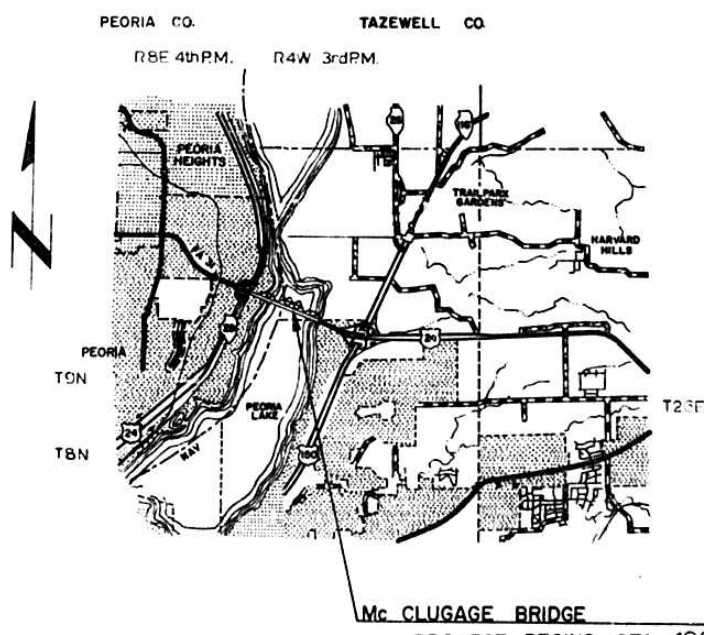
31 - STEEL RAILING

STANDARDS: 2113 - 1
2205 - 4
2209 - 5
2300 - 1

SCALES { PLAN 1 INCH = 100 FT.
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DEPARTMENT OF TRANSPORTATION

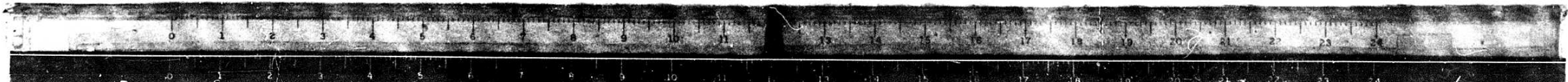
2-4-28
W. H. ...
Feb 11 1928
W. H. ...
Feb 11 1928
W. H. ...
DIRECTOR OF HIGHWAYS

DEPAI

CONTRACT NO. 29901

PEORIA, TAZEWELL COUNTY SECTION 15B-I-2 ROUTE 31

Rev. 2-20-24



SUMMARY OF QUANTITIES

STATE NO. DIST. COUNTY DATE
 31 E-3 PEORIA 31 2
TAZEWELL

CODE	ITEM	UNIT	QUANTITIES
406008	BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	106
501022	CONCRETE REMOVAL	C.U. Y.D.	*10.9
501026	EXPANSION BOLTS 3/4 inch	EACH	21
501051	REMOVAL of EXISTING CONCRETE DECK	LUMP SUM	1
503001	FLOOR DRAINS	EACH	1272
504003	CLASS "X" CONCRETE	C.U. Y.D.	*15.3
507030	FURNISHING and ERECTING STRUCTURAL STEEL	LUMP SUM	1
509004	CLEANING and PAINTING	LUMP SUM	1
514001	NAME PLATES	EACH	1
617008	BITUMINOUS CONCRETE SURFACE REMOVAL	SQ. Y.D.	1395
XZ1230	FILLED STEEL GRID FLOOR	SQ. FT.	132,890
X04195	STEEL RAILING	LIN. FT.	8923
XZ 1186	PREFORMED JOINT SEALER (2 1/2")	LIN. FT.	900
XZ 1187	PREFORMED JOINT SEALER (4")	LIN. FT.	30
XZ 1093	NEOPRENE EXPANSION JOINT (4")	LIN. FT.	90
XZ 1092	NEOPRENE EXPANSION JOINT (6 1/2")	LIN. FT.	30
XZ1201	NEOPRENE EXPANSION JOINT (9")	LIN. FT.	30
XZ1202	NEOPRENE EXPANSION JOINT (13")	LIN. FT.	30
X03740	CLASS X CONCRETE (PARTIAL DEPTH DECK)	C.U. Y.D.	12.2
X50707	JACK and REPOSITION BEARINGS	EACH	*16
X04210	TRAFFIC CONTROL and PROTECTION SPECIAL	LUMP SUM	1
X04918	PREFABRICATED WATERPROOFING MEMBRANE SYSTEM	SQ. Y.D.	*1389
Z10186	CONCRETE DECK REMOVAL (PARTIAL DEPTH)	C.U. Y.D.	*10.0
646001	ENGINEER'S FIELD OFFICE, TYPE A	EACH	1
XZ1100	TRAINEES	HOUR	2,000

*NON-PARTICIPATING

SUBMITTED Jan. 4, 1974
DIST. DESIGN ENGR.

EXAMINED _____
DIST. CONST. ENGR.

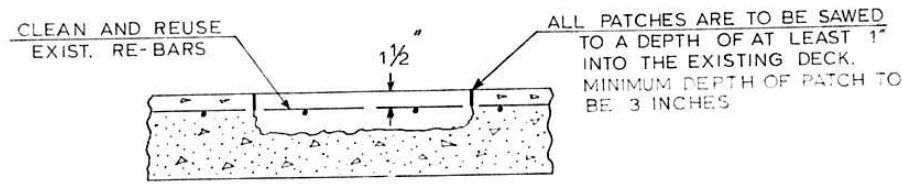
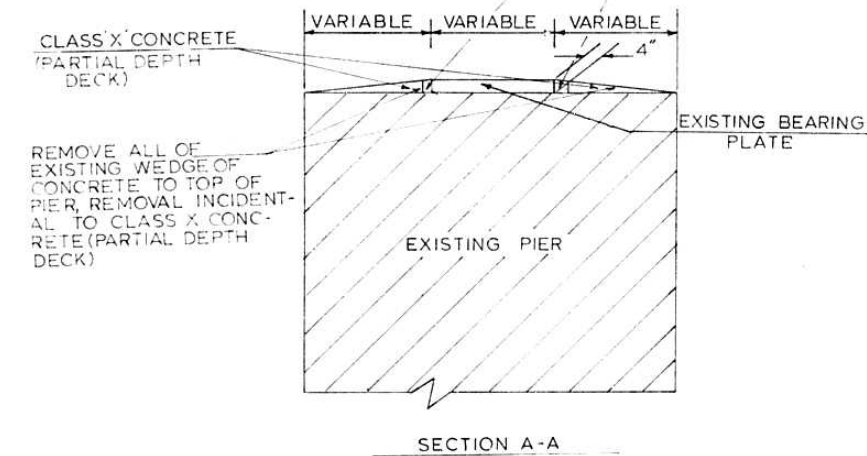
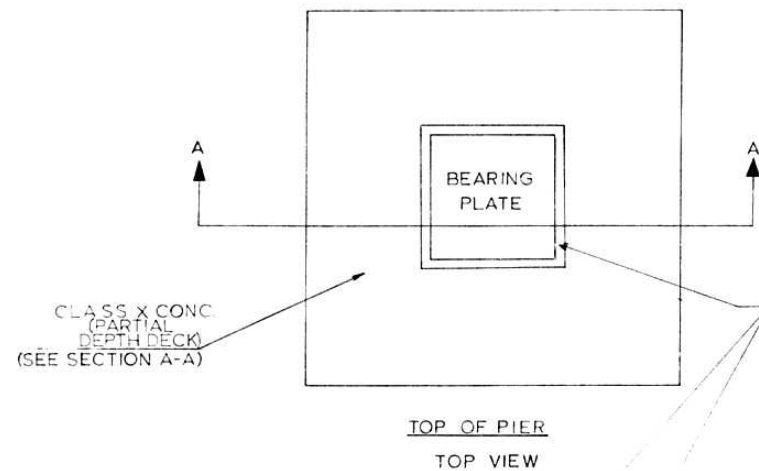
EXAMINED _____
DIST. MAINT. ENGR.

EXAMINED _____
DIST. TRAFFIC ENGR.

Entire section checked and approved as to policy.

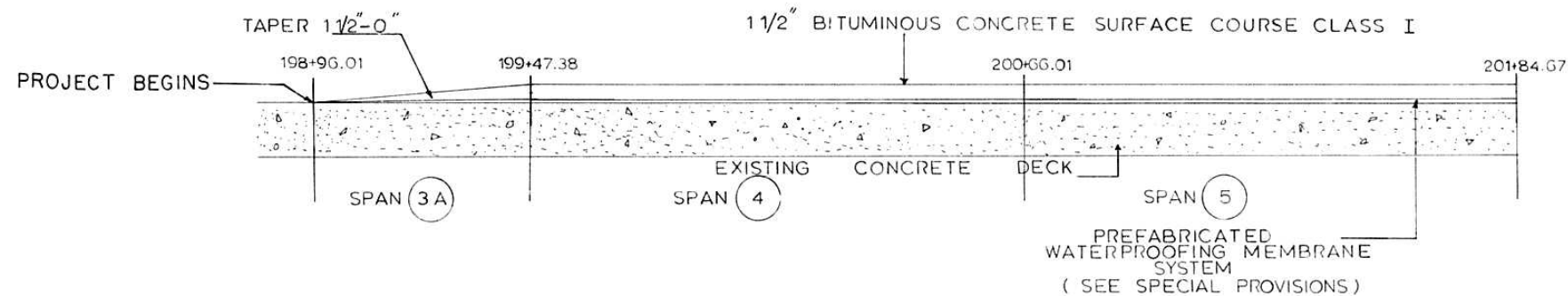
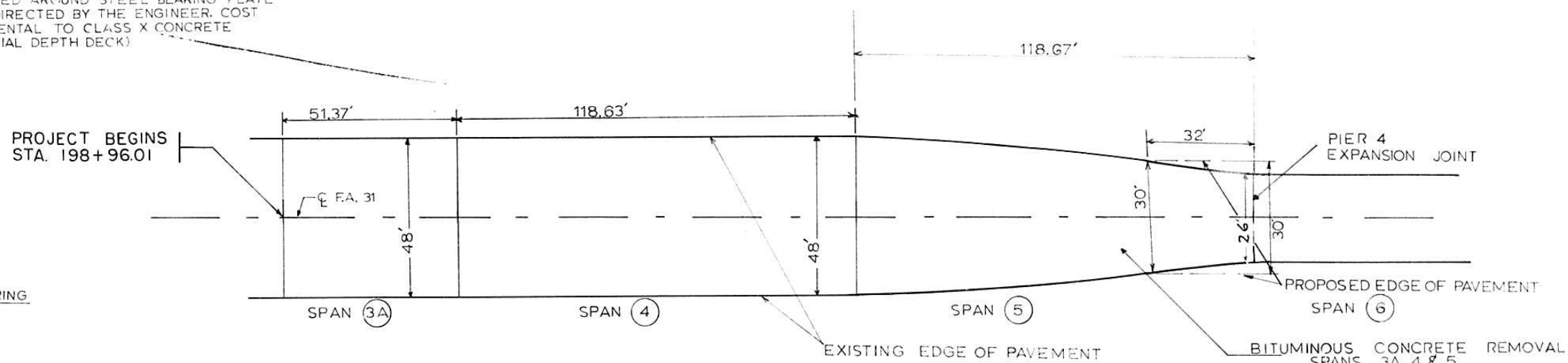
DATE 2-4-74 J.E. Holland
DISTRICT ENGINEER

DETAIL of CONCRETE PLACEMENT AT BEARING PLATE



PREFORMED JOINT FILLER 1/2" TO BE PLACED AROUND STEEL BEARING PLATE AS DIRECTED BY THE ENGINEER. COST INCIDENTAL TO CLASS X CONCRETE (PARTIAL DEPTH DECK)

PROJECT BEGINS STA. 198+96.01



NOTE: ON BEARING SEATS 7 NORTH, 7 SOUTH, AND 10 SOUTH, CLASS X CONCRETE MAY BE POURED TO THE BEVELING AREAS SHOWN FOR CLASS X CONCRETE (PARTIAL DEPTH DECK)

GENERAL NOTE: AT PIER 28 WHERE JACKING AND REPOSITIONING OF BEARING WORK WILL BE DONE, THE ENDS OF THE SIX FLOOR STRINGERS SHALL BE CUT TO PROVIDE THE PROPER OPENING AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.

THE WORK ABOVE WILL BE DONE ON PIERS 8,9,12,13 & 15.

QUANTITY = 2.2 CU.YDS. OF CLASS X CONCRETE (PARTIAL DEPTH DECK)

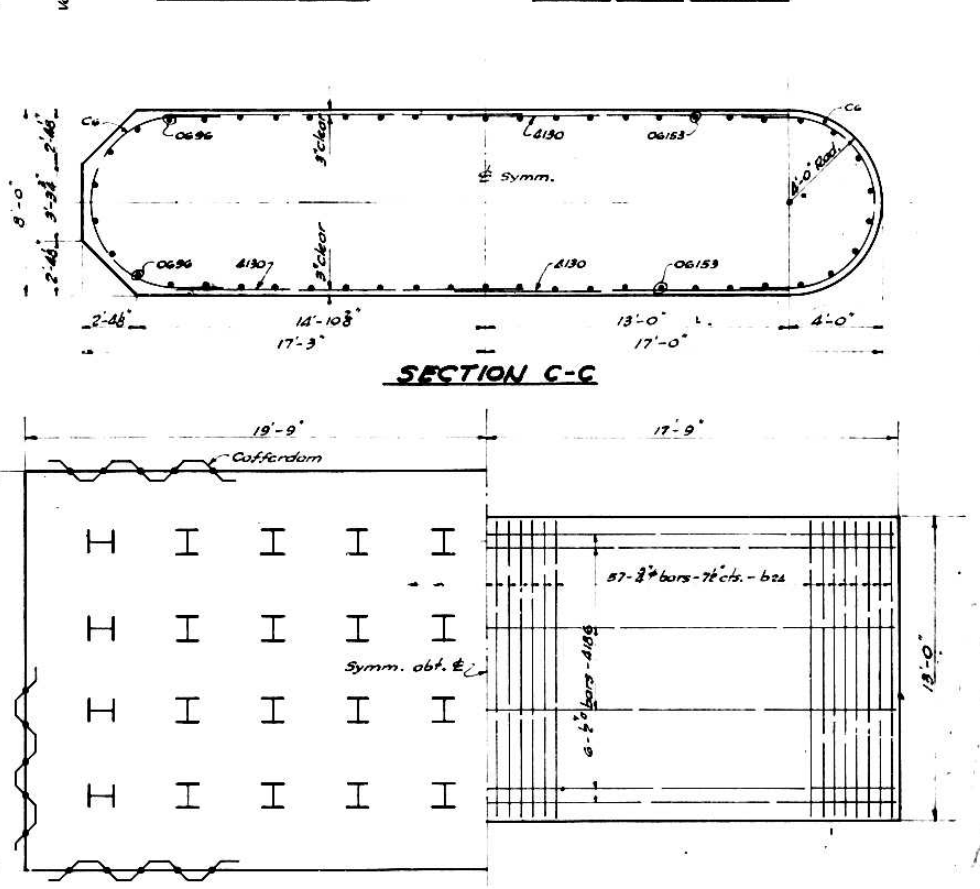
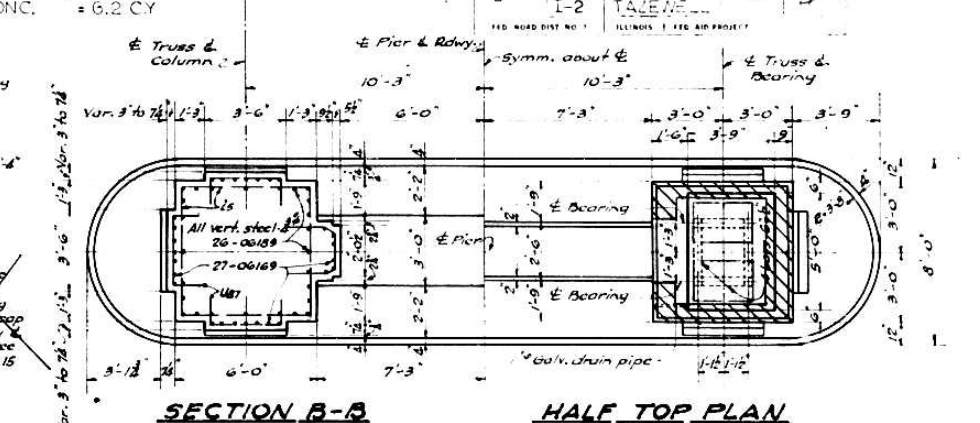
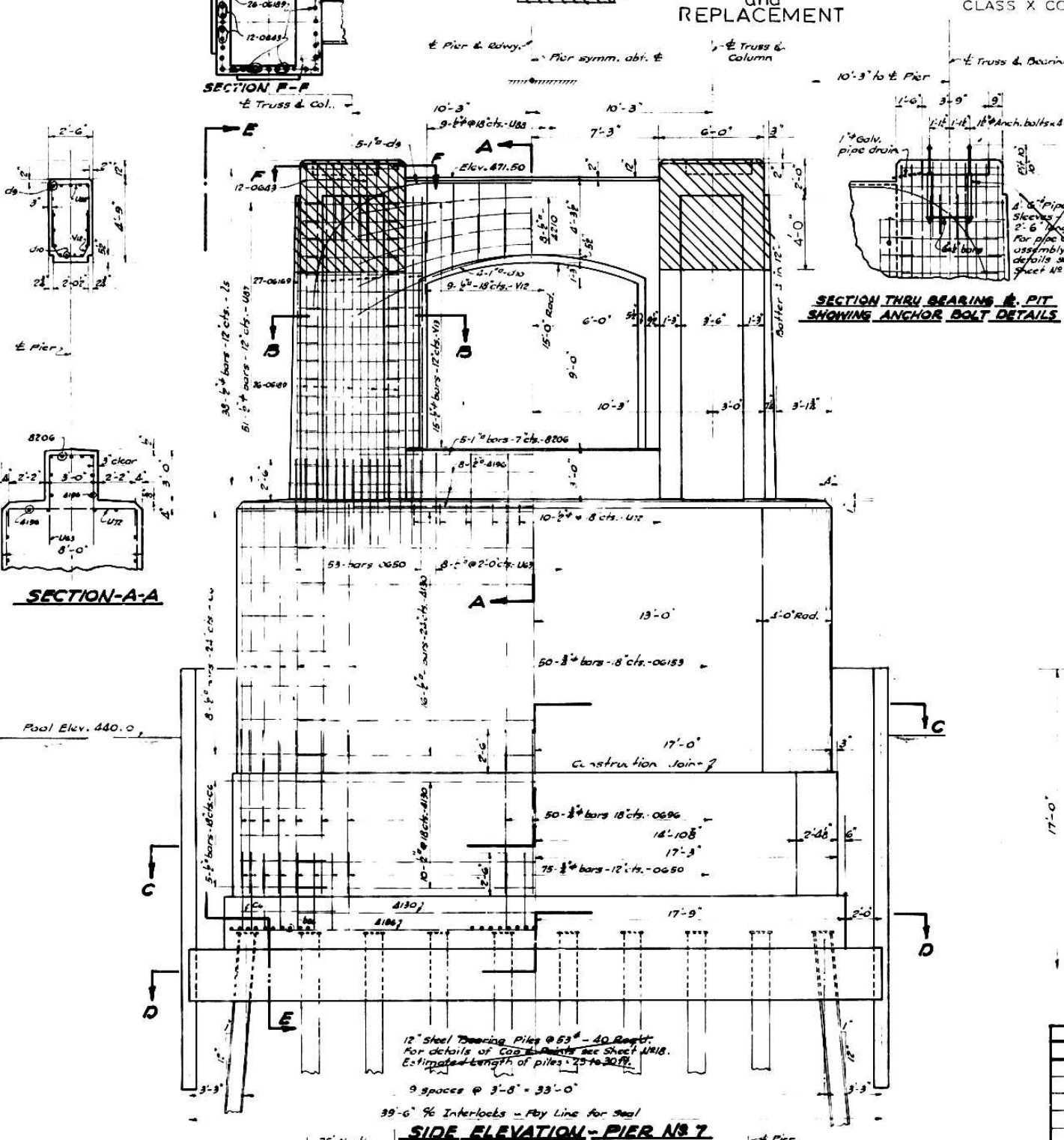
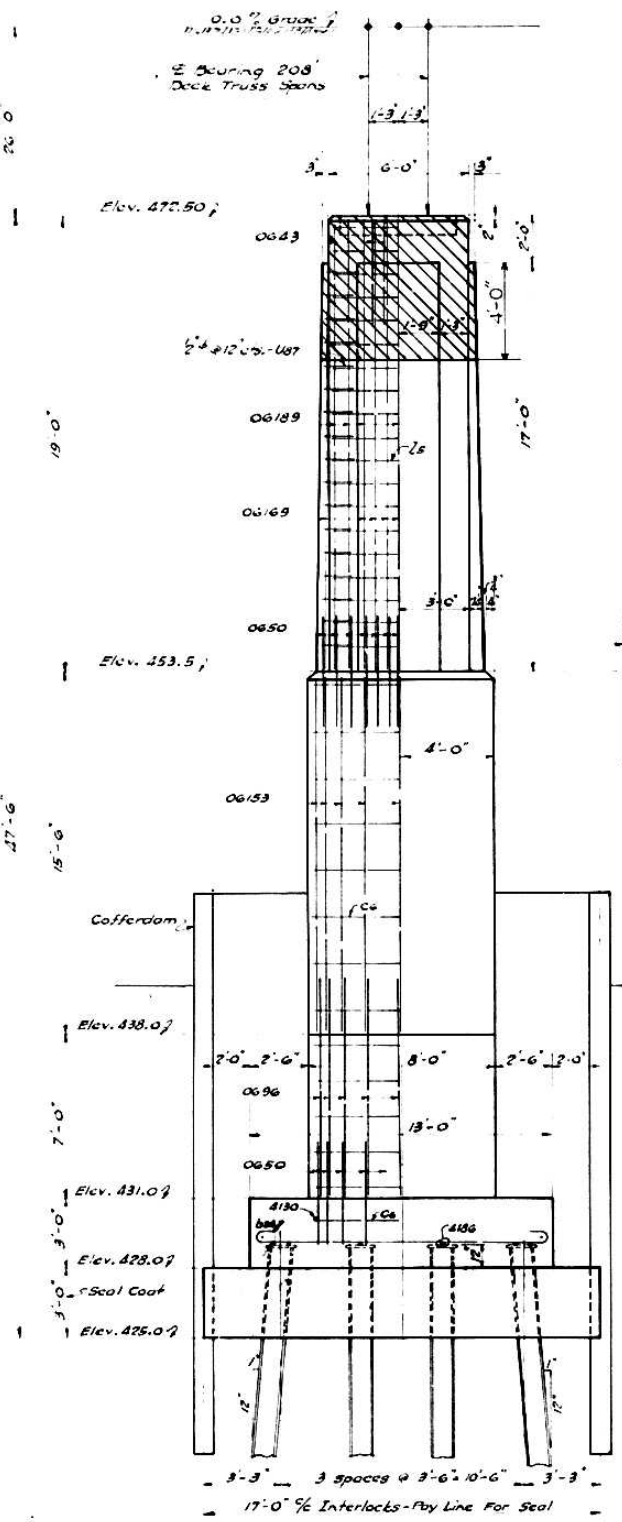
QUANTITIES THIS SHEET

DESCRIPTION	QUANTITY
CONCRETE DECK REMOVAL (PARTIAL DEPTH)	10.0 CU. Y.
BITUMINOUS CONCRETE SURFACE COURSE CLASS I	106 TONS (USED 112 lb/yd/sqyd.) $[(273.9)(314) + (632.6 \text{ yd}^2)(11/2") + (482.3 \text{ yd}^2)(11/2")] (2000") = 106 \text{ TONS}$
BITUMINOUS CONCRETE REMOVAL	1395 SQ. YDS.
PREFABRICATED WATER-PROOFING MEMBRANE SYSTEM	1389 SQ. YDS.
CLASS X CONCRETE (PARTIAL DEPTH DECK) (INCLUDES 2.2 CU. YDS. FOR BEVELED AREAS AT BEARING PLATES)	12.2 CU. YDS.

± Pier 7- Sta. 208+63.75
Crown Elev. 498.50

CONCRETE REMOVAL and REPLACEMENT
CONCRETE REMOVAL = 6.2 CY
CLASS X CONC. = 6.2 CY

SECTION 5 B PEORIA TAZEWELL
COUNTY ILLINOIS
SHEET 4



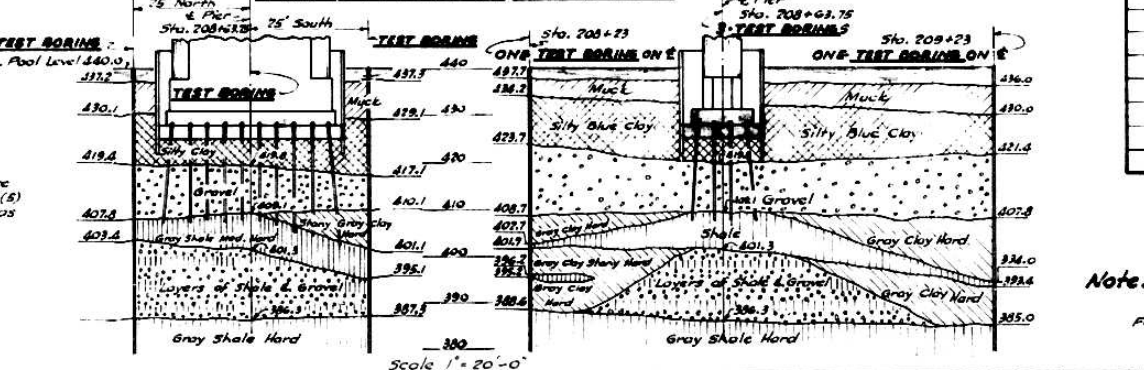
BILL OF MATERIAL PIER NO. 7

BENT BARS				STRAIGHT BARS				Items	
Bar	N ^o	Size	Length	Bar	N ^o	Size	Length		
b24	57	3/4"	14'-9"	4186	12	2"	18'-6"	Reinforcement Bars	Lbs. 11,540
cc	28	1 1/2"	15'-9"	4196	3	"	19'-6"	Class X Concrete	Cu. Yds. 387.3
d9	10	1"	18'-6"	4210	8	"	21'-0"	Seal Coat Concrete	Cu. Yds. 74.6
d0	4	1"	21'-0"	4130	56	"	13'-0"	Structural Steel	Lbs. 940
z5	76	5/8"	12'-0"	0643	24	3/4"	8'-3"	Furnishing Steel Piles	Lbs. 59,360
u43	8	5/8"	13'-0"	0650	181	"	5'-0"	Pile Caps & Points	Lbs. 3,440
u12	10	5/8"	10'-0"	0696	50	"	9'-6"	Driving Steel Piles	Lbs. 1,100
u17	102	"	5'-0"	06153	50	"	15'-3"	Driven Steel Piles	Each 2
u18	9	5/8"	9'-6"	06169	54	"	16'-9"	Cofferdam	Each 1
v12	9	5/8"	7'-0"	06189	52	"	18'-9"	Class B Excavation	Cu. Yds. 310
v11	30	3/4"	5'-6"	8206	5	1"	20'-6"		

COMPUTED: [Signature]
CHECKED: [Signature]
DRAWN: [Signature]
CHECKED: [Signature]
ASSEMBLED: [Signature]
CHECKED: [Signature]

EXAMINED: [Signature]
APPROVED: [Signature]

Note:-
Subsoil conditions shown in sketches are as indicated by five (5) test borings located as shown.



Note:-
For details of bent bars see sheet No. 30.

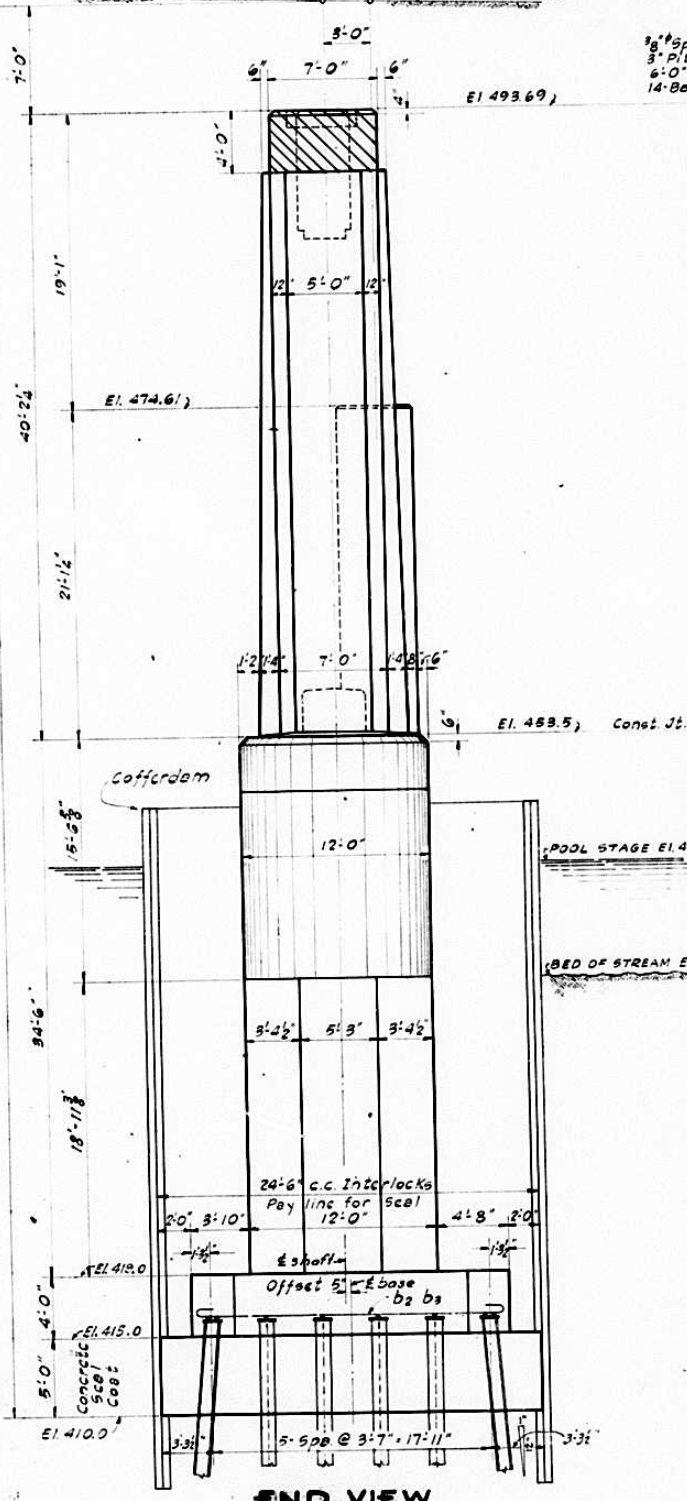
**PIER NO. 7
ILLINOIS RIVER BRIDGE
PEORIA - TAZEWELL COUNTIES**

FA ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
31	1E B-1-2	PEORIA TAZEWELL	31	5
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT

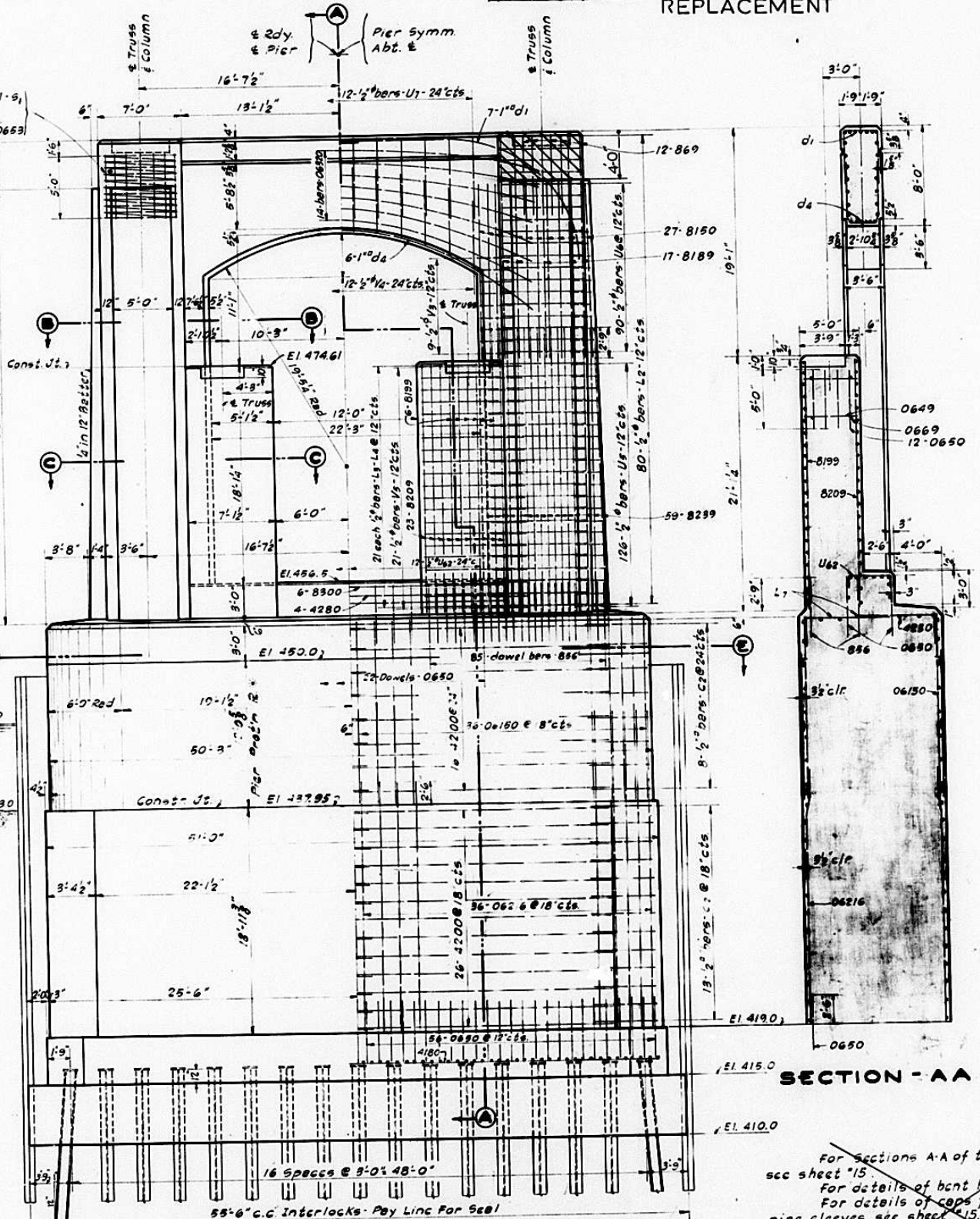
CONCRETE REMOVAL - 3.1 CY
CLASS X CONC. = 3.1 CY

& Bearing: 469-536-469
Thru Truss Span
Sta 215+44.0 - Cr. El. 500.69

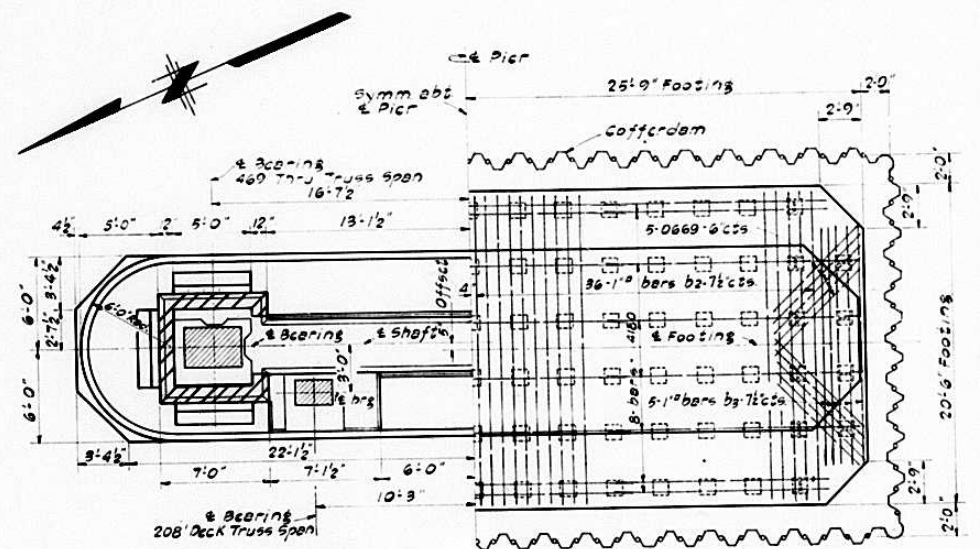
& Bearing: 208-260-208
Deck Truss Span
Sta 215+41.0 - Cr. El. 500.62
-2.04% Grade



END VIEW



HALF ELEVATION SHOWING DIMENSIONS
ELEVATION - LOOKING EAST
SCALE 1" = 6 FT.



HALF TOP PLAN HALF PLAN OF FOOTING SHOWING PILES & REINF.

ALL PILES ARE 12"-54" STEEL BEARING PILES - 98 REQD
Estimated Length - 38 ft.

BILL OF MATERIAL - PIER 10

BENT BARS				STRAIGHT BARS			
BAR	NO.	SIZE	LENGTH	BAR	NO.	SIZE	LENGTH
b2	72	1"	22'-6"	4180	24	1/2"	18'-0"
b3	10	1"	17'-0"	0650	158	3/4"	5'-0"
c2	42	1/2"	22'-0"	06216	72	3/4"	21'-6"
d1	14	1"	27'-9"	06150	72	3/4"	15'-0"
d2	6	1"	33'-0"	4200	84	1/2"	20'-0"
L2	160	1/2"	14'-3"	0653	28	3/4"	5'-3"
L3	42	1/2"	12'-0"	856	170	1"	5'-6"
L4	42	1/2"	12'-6"	4280	4	1/2"	28'-0"
U5	252	1/2"	6'-9"	8300	6	1"	30'-0"
U6	180	1/2"	5'-9"	8209	46	1"	20'-9"
U7	12	1"	16'-6"	8239	118	1"	23'-9"
U62	12	1/2"	5'-6"	8180	34	1"	18'-9"
V3	18	1/2"	8'-0"	8150	54	1"	15'-0"
V2	12	1/2"	13'-6"	869	24	1"	6'-9"
V5	42	1/2"	9'-6"	8199	12	1"	19'-9"
S1	2	3/8"	440'-0"	06920	14	3/4"	32'-0"
L7	22	1/2"	7'-0"	0649	8	3/4"	4'-9"
				0669	28	3/4"	6'-9"
				4230	8	1/2"	23'-0"

Reinforcement Bars	Lbs	45,250
Class X Concrete	Cu Yds	1184.0
Seal Coat Concrete	Cu Yds	251.9
Structural Steel	Lbs	1400
Furnishing Steel Piles	Lbs	198,430
Pile Points/Caps	Lbs	8,490
Driving Steel Piles	Lin. Ft.	3,724
Driving Steel Test Piles	Each	2
Cofferdam	Each	1
Class B Excavation	Cu Yds	1100

For Sections A-A of top beam, B-B etc see sheet 15.
For details of bent bars see sheet 30.
For details of caps for anchor bolt pipe sleeves see sheet 15 & 18.
For details of pier protection plates see sheet 29.
For details of Pile Caps and Points see sheet 18.

* Pier Protection is included in Bill of Material on sheet No. 29.

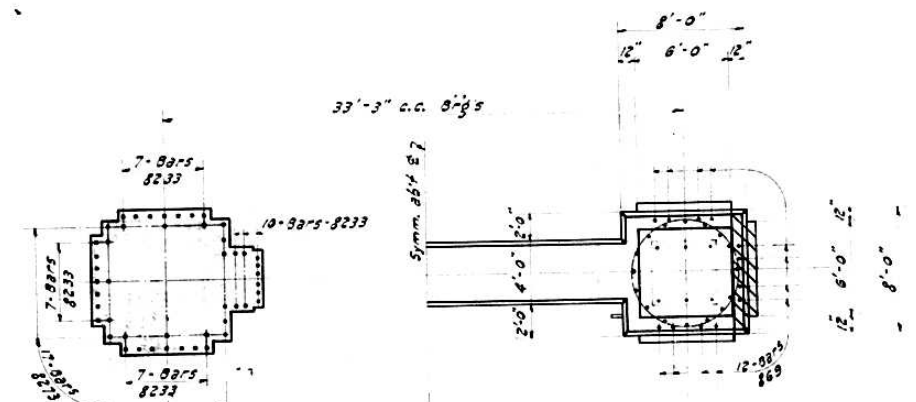
COMPUTED	EXAMINED	12-15-1931
CHECKED	PASSED	
DRAWN	APPROVED	
CHECKED		
SPECIAL		

CONCRETE REMOVAL and REPLACEMENT

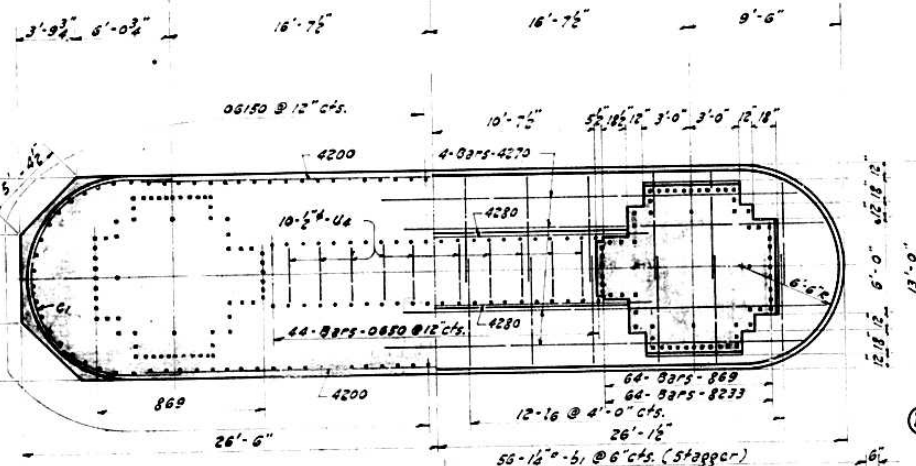
CONCRETE REMOVAL = 1.6 CY
CLASS X CONC = 1.6 CY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
31	E B-1-2	PEORIA TAZEWELL	31	G

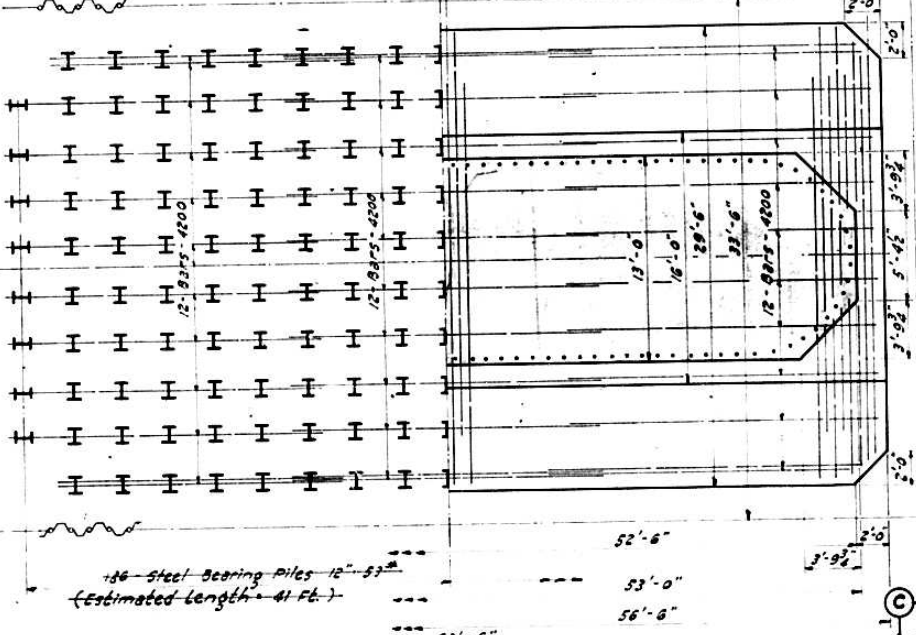
El. 506.00 Elev. Low Steel



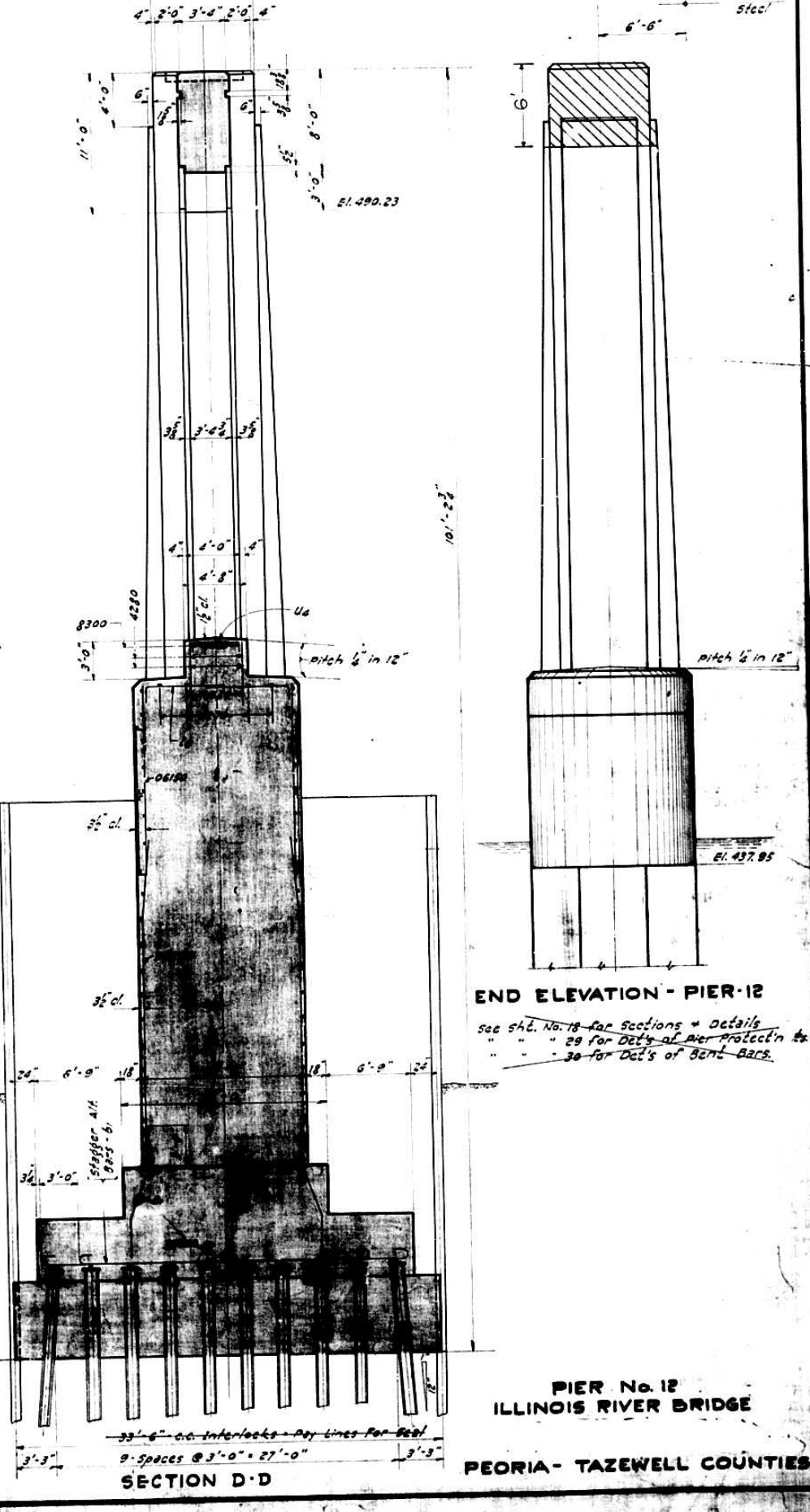
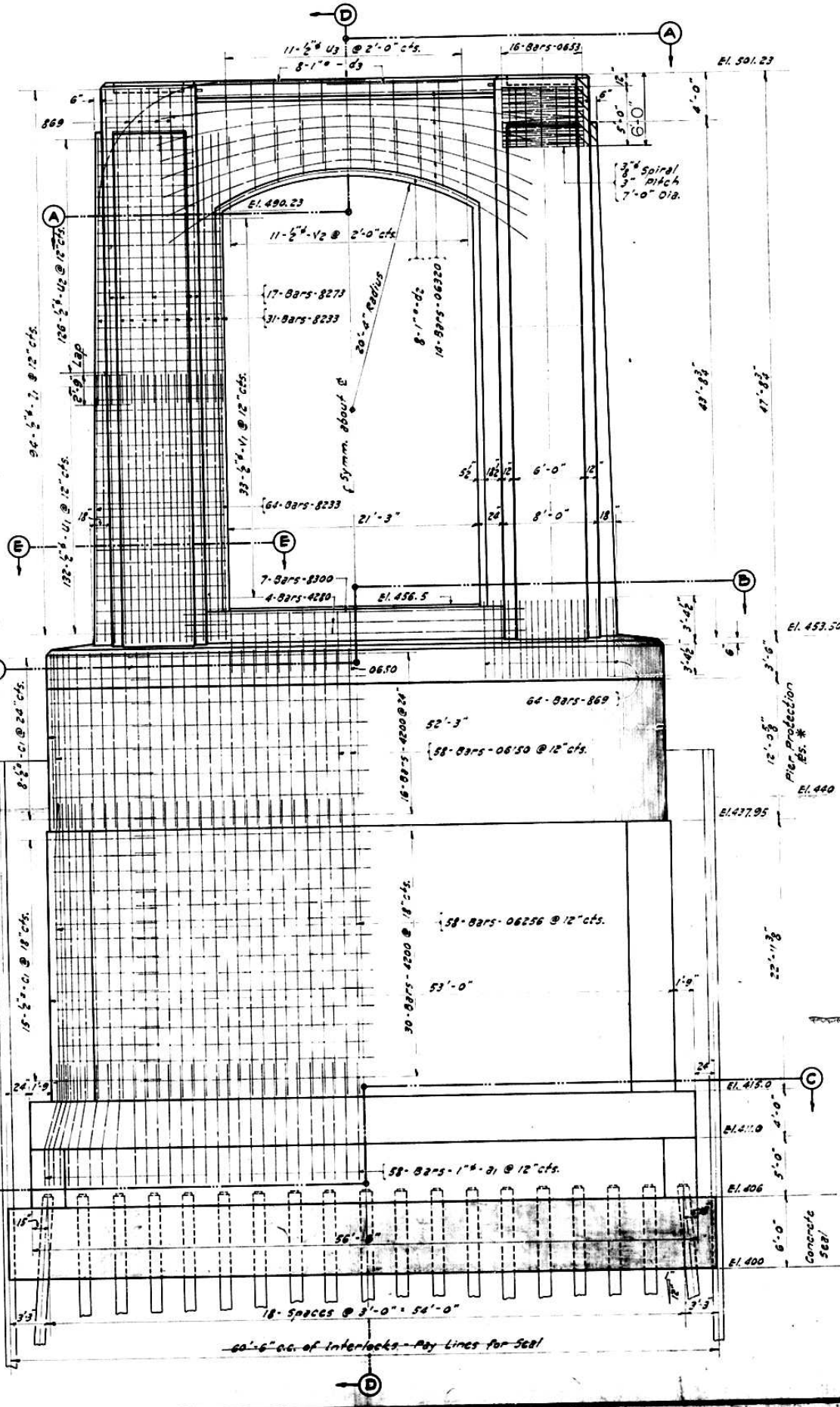
SECTION A-A



SECTION B-B



SECTION C-C



END ELEVATION - PIER 12

See Sht. No. 18 for Sections & details
" " " 29 for Det's of Pier Protection
" " " 30 for Det's of Bent Bars

PIER No. 12
ILLINOIS RIVER BRIDGE

PEORIA - TAZEWELL COUNTIES

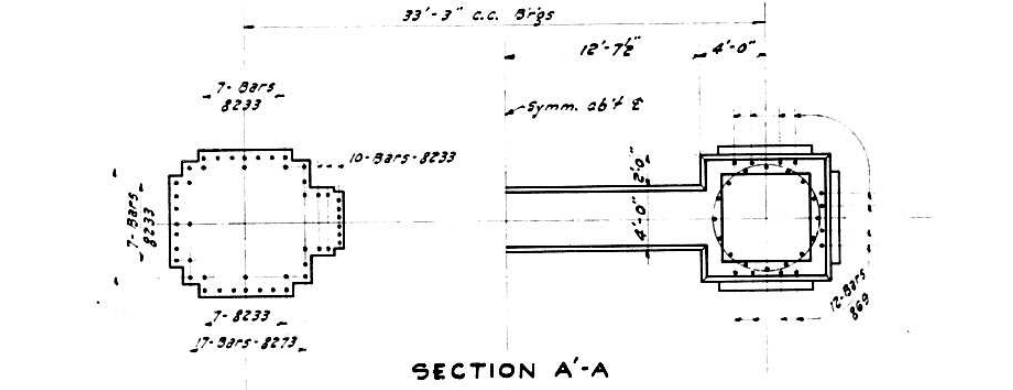
STANDARD	COMPUTED <i>Frank Along</i>	EXAMINED <i>H. J. Swick</i>
	CHECKED <i>A. P. Jones</i>	
SPECIAL	DRAWN <i>F. C. & Halecki</i>	PASSED <i>H. J. Swick</i>
	CHECKED <i>H. J. Swick</i>	APPROVED <i>H. J. Swick</i>

REFERENCE ONLY

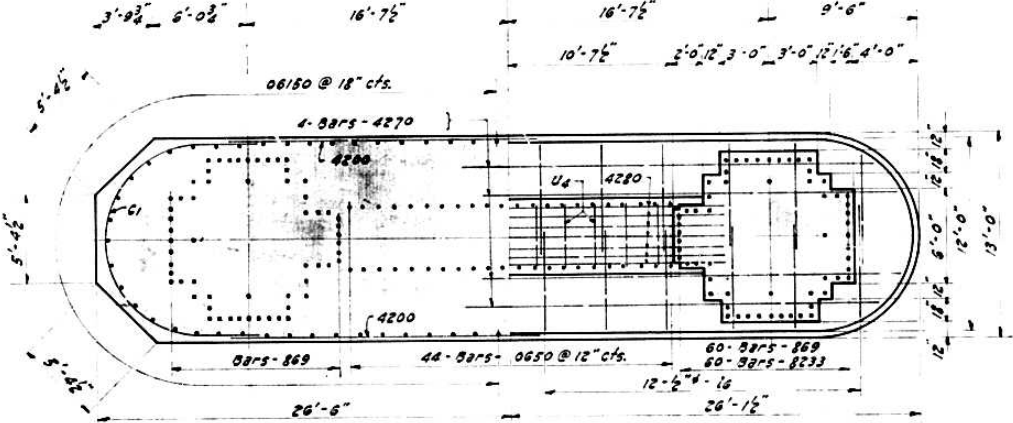
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
31	E B I-2	PEORIA TAZEWELL	31	7
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

Cr. El. 509.80

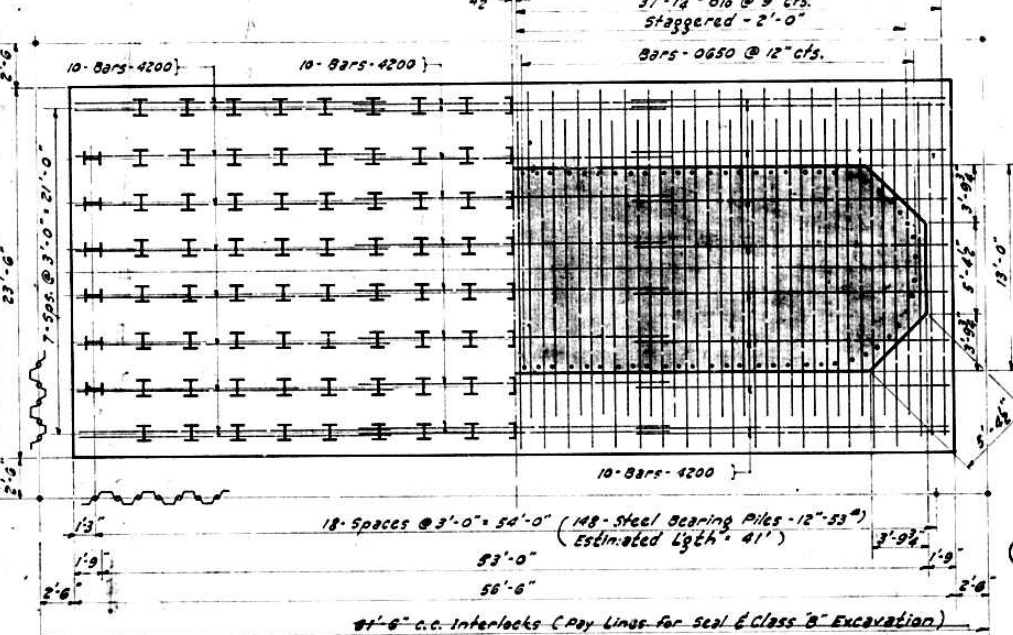
El. 506.00 El. Low Steel



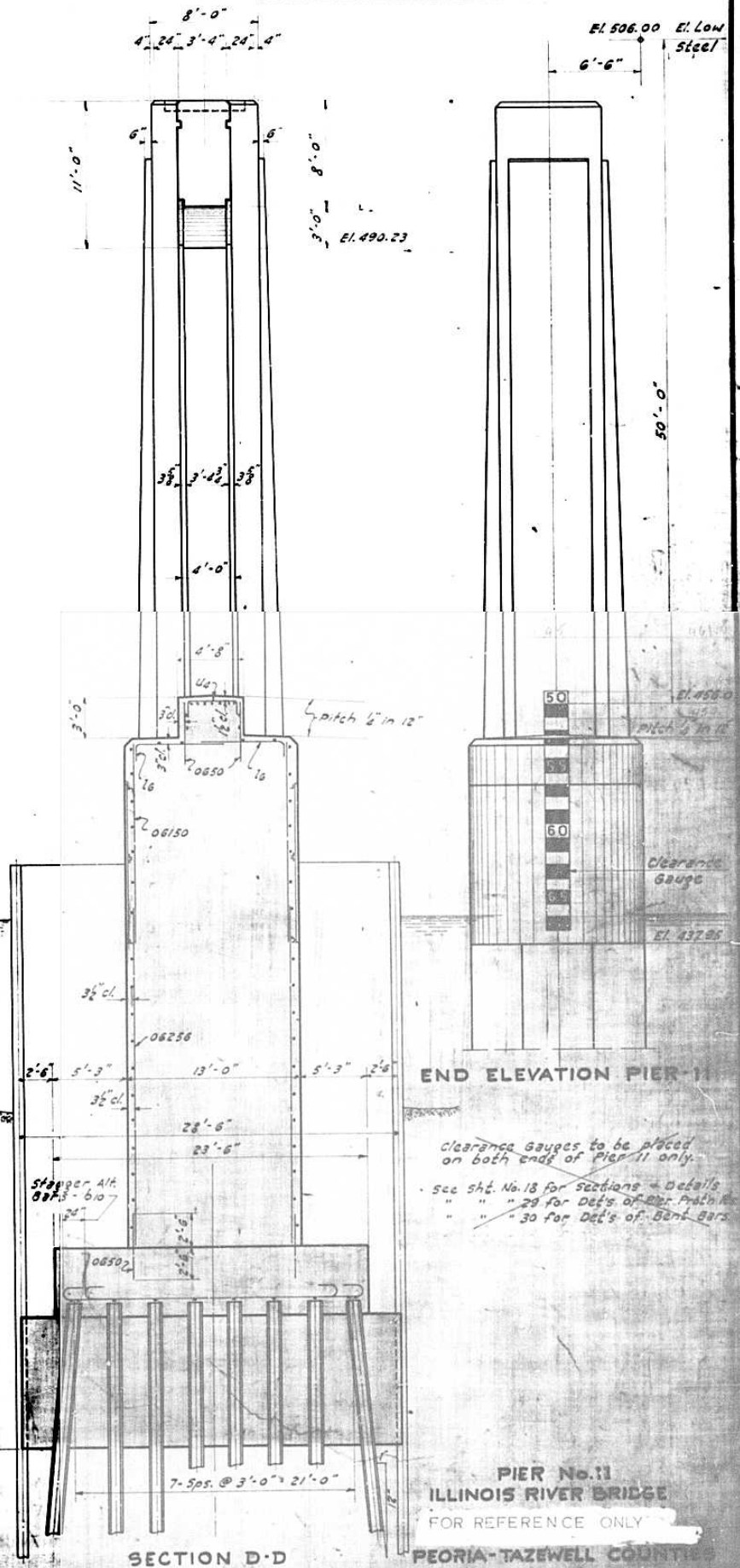
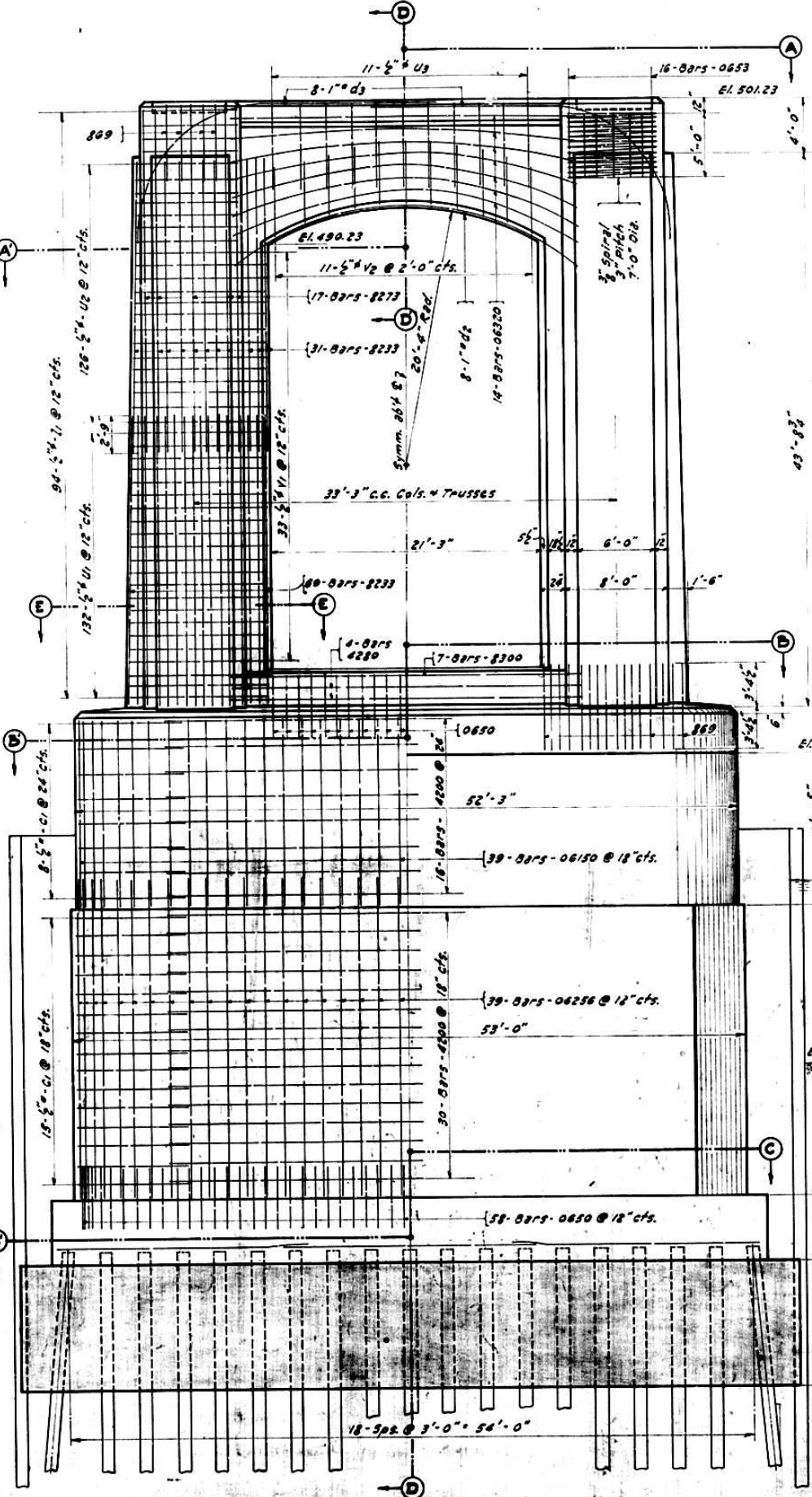
SECTION A-A



SECTION B-B



SECTION C-C



END ELEVATION PIER II

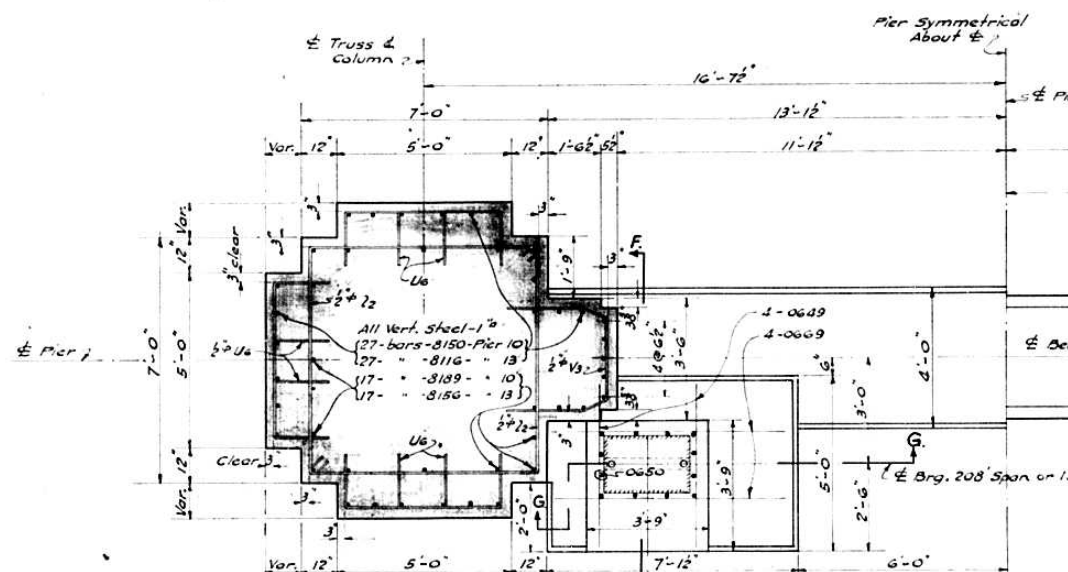
SECTION D-D

PIER No. 11
ILLINOIS RIVER BRIDGE
FOR REFERENCE ONLY
PEORIA-TAZEWELL COUNTIES

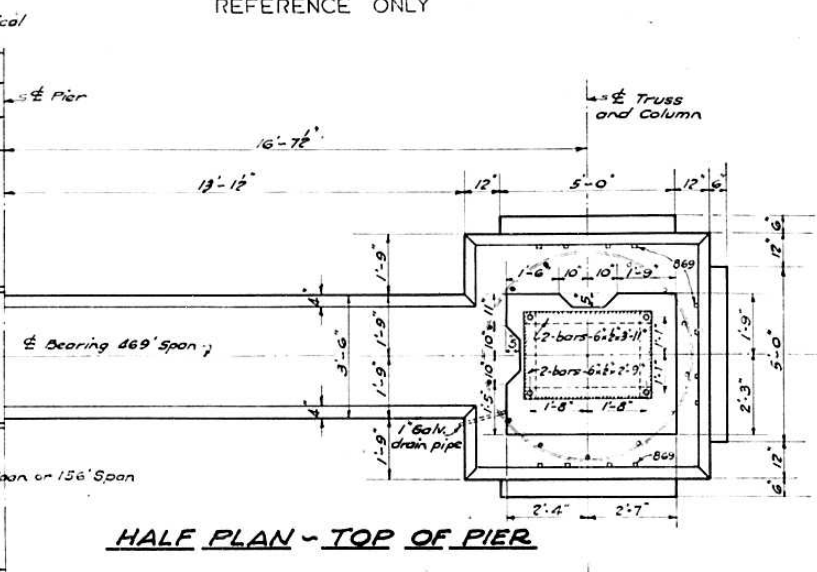
STANDARD	COMPUTED <i>Franklin</i>	EXAMINED <i>12-15-1939</i>
CHECKED <i>A. R. Thomas</i>	CHECKED <i>A. F. Burch</i>	
DRAWN <i>W. C. Mahab</i>	PASSED	
CHECKED <i>A. L. J.</i>	APPROVED	
SPECIAL	ASSEMBLED	
CHECKED	CHECKED	

REFERENCE ONLY

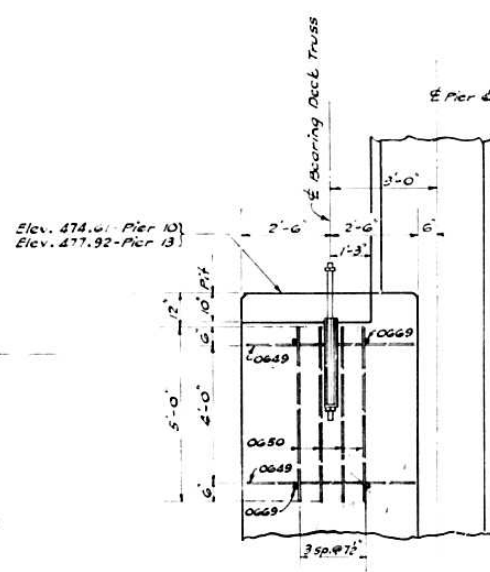
F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
31	15 B	PEORIA	31	8
I-2		TAZEWELL		
ILLINOIS		I-2 PROJECT		



SECTION B-B

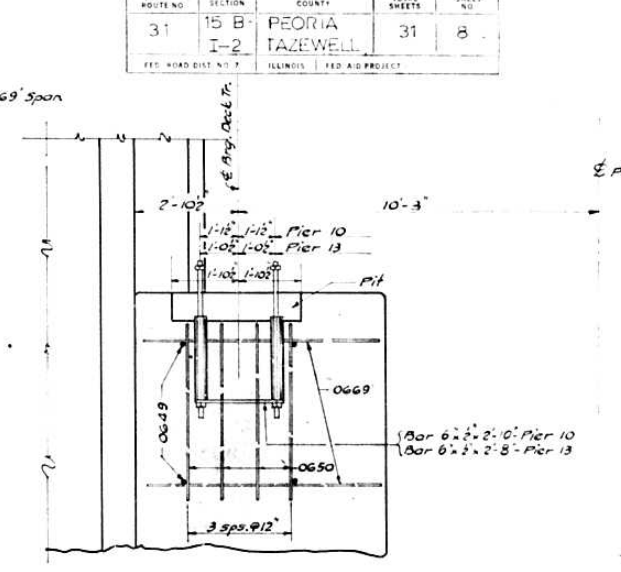


HALF PLAN - TOP OF PIER



SECTION F-F

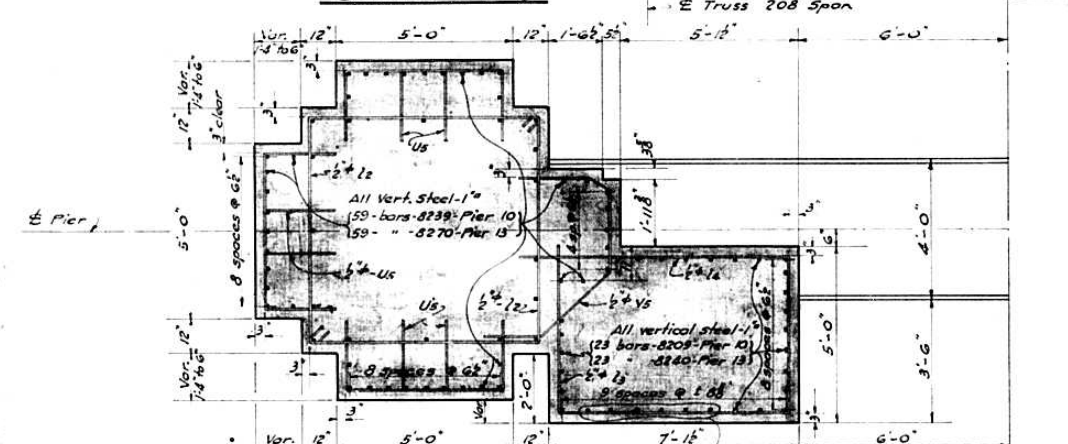
Showing Details of End Bearing of Deck Truss Span.



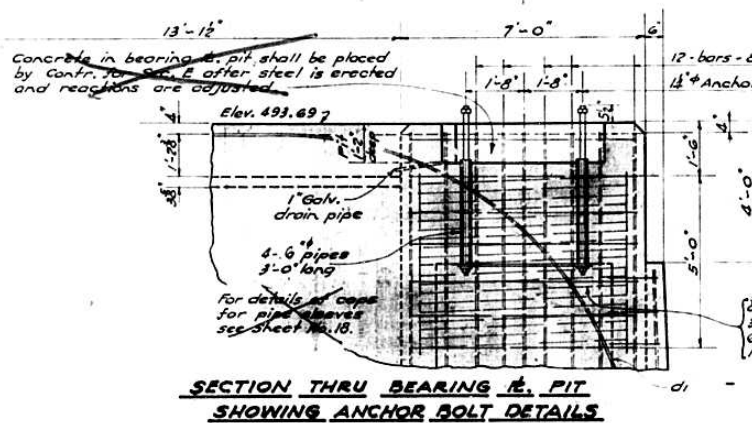
SECTION G-G

TOTAL ANCHOR BOLT MATERIAL REQUIRED AT PIERS 10 & 13

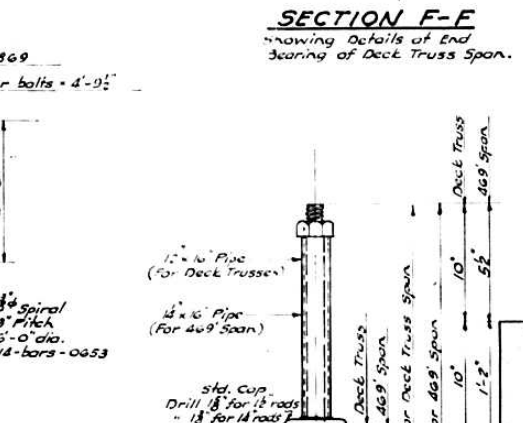
	Pier 10	Pier 13
1 1/2" Pipe Sleeves	8	5
1 1/2" Rods	4	4
1 1/2" Hex. Nuts	8	8
1 1/2" Hex. Washers	8	8
6" x 6" x 2'-9" Bars	4	4
6" x 6" x 3'-11" Bars	4	4
6" x 6" x 2'-10" Bars	2	-
6" x 6" x 2'-8" Bars	-	2
Std. Pipe Caps - 6"	12	12



SECTION C-C

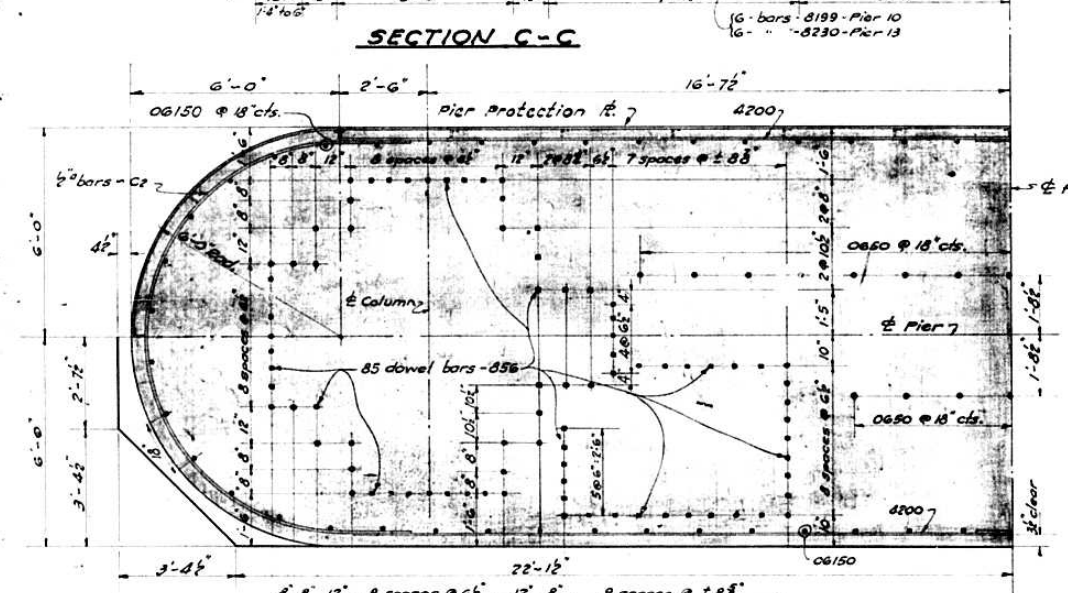


SECTION THRU BEARING IN PIT SHOWING ANCHOR BOLT DETAILS

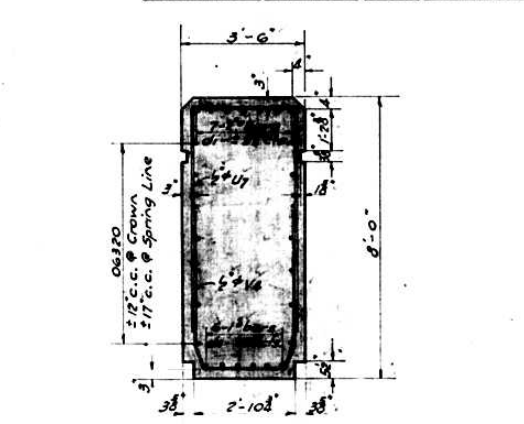


TYPICAL ANCHOR DETAIL

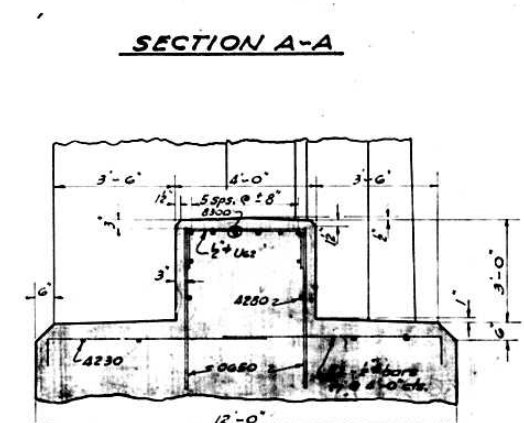
For 469' span - Piers 10 & 13 & Deck Truss spans of Piers 10, 13 & 16.



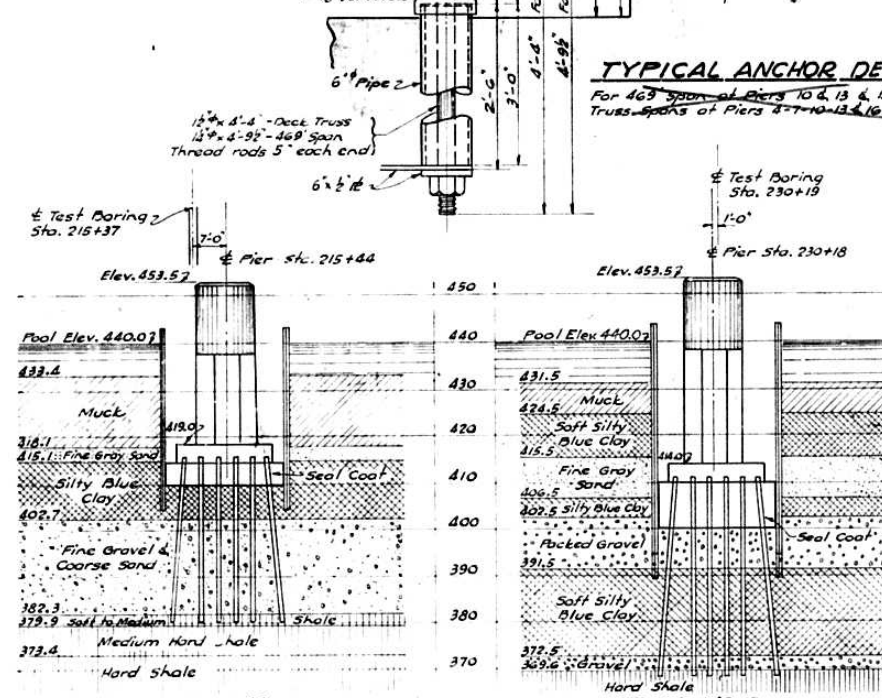
SECTION E-E



SECTION A-A



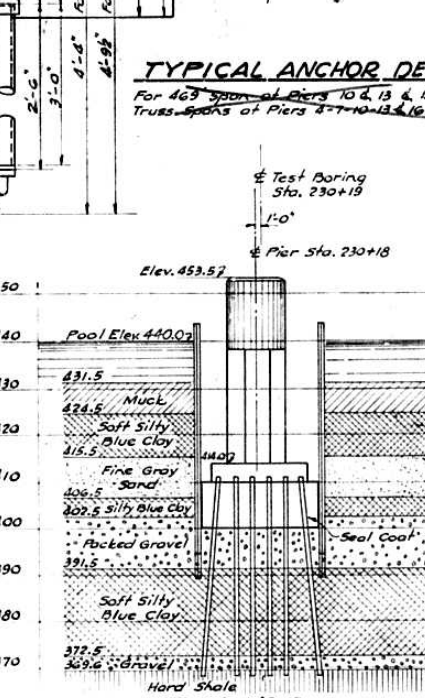
SECTION D-D



PIER NO 10

BORING DATA

Note: Work this sheet with sheets 13 & 14.



PIER NO 13

Note: Subsoil conditions shown are as indicated by test borings taken on the center line of roadway at the station noted on the sketch. Bearing piles shown are 12" steel bearing piles - 53' piles to be driven to refusal in underlying solid shale stratum.

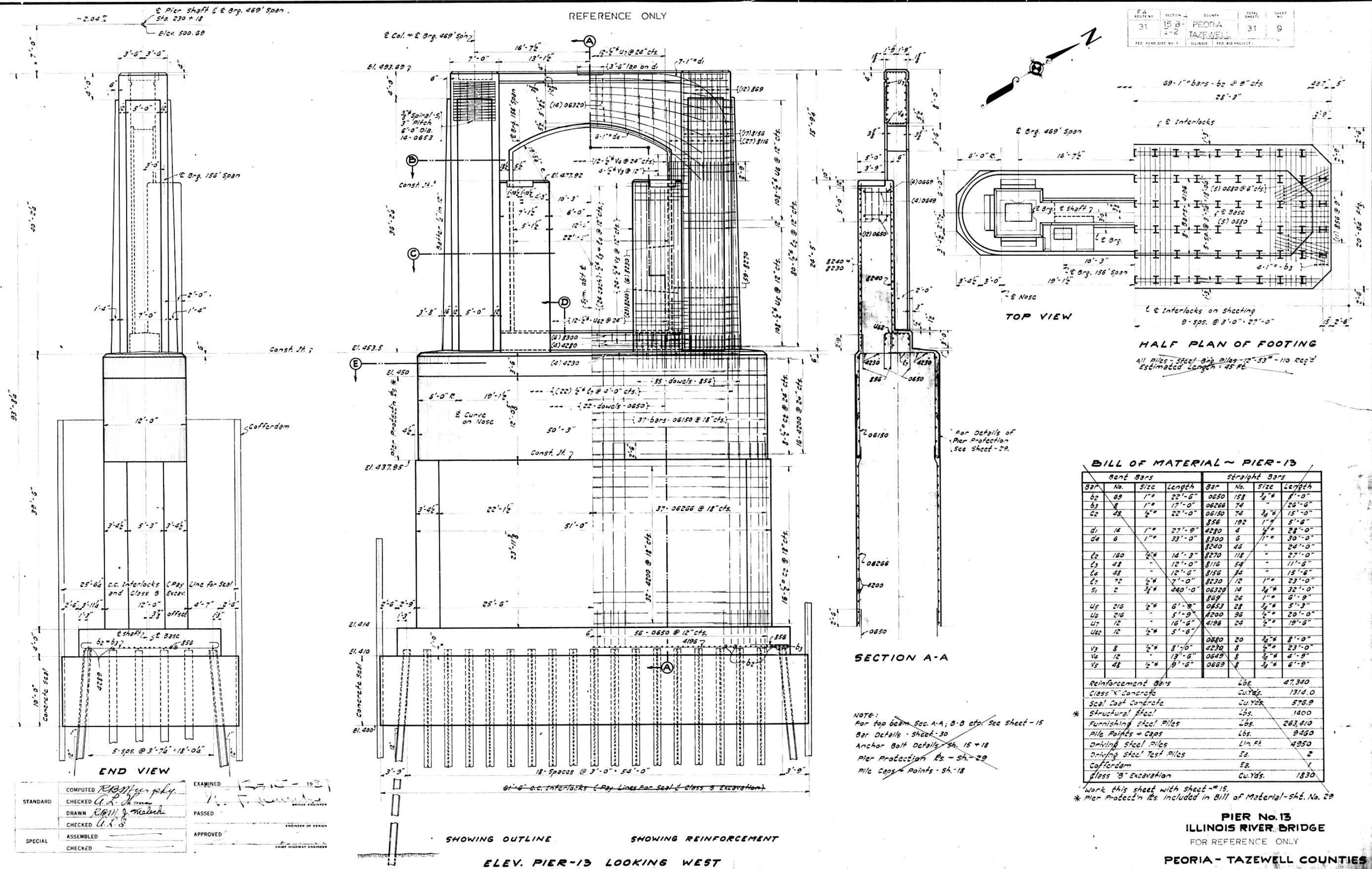
COMPUTED	EXAMINED	19
CHECKED	BRIDGE ENGINEER	
DRAWN	PASSED	
CHECKED	ENGINEER OF DESIGN	
SPECIAL ASSEMBLED	APPROVED	
CHECKED	CHIEF HIGHWAY ENGINEER	

DETAILS, PIERS 10 & 13
ILLINOIS RIVER BRIDGE

FOR REFERENCE ONLY
PEORIA TAZEWELL COUNTIES

REFERENCE ONLY

FA ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
31	15 B-1-2	PEORIA TAZEWELL	31	9



TOP VIEW

HALF PLAN OF FOOTING

SECTION A-A

BILL OF MATERIAL - PIER-13

Bent Bars			Straight Bars		
Bar	No.	Size	Bar	No.	Size
b2	89	1"	0650	158	3/4"
b3	8	1"	06266	74	2 1/2"
c2	48	1/2"	06180	74	3/4"
d1	14	1"	856	192	1"
d4	6	1"	8300	6	1"
e2	160	1/2"	8270	118	1"
e3	48	1/2"	8116	54	1"
e4	48	1/2"	8156	34	1"
e7	22	1/2"	8230	12	1"
s1	2	3/4"	06320	14	3/4"
u5	216	1/2"	869	24	1"
u6	216	1/2"	0853	28	3/4"
u7	12	1"	8200	96	1/2"
u62	12	1/2"	4196	24	1/2"
v3	8	1/2"	0680	20	3/4"
v4	12	1/2"	4230	8	1/2"
v5	48	1/2"	0649	8	3/4"
			0669	8	3/4"

Reinforcement Bars	Lbs.	47,340
Class X Concrete	Cu.Yds.	1314.0
Seal Coat Concrete	Cu.Yds.	576.9
Structural Steel	Lbs.	1400
Furnishing Steel Piles	Lbs.	263,410
Pile Points + Caps	Lbs.	9460
Driving Steel Piles	Lin.Ft.	4950
Driving Steel Test Piles	Sq.	2
Cofferdam	Sq.	
Class B Excavation	Cu.Yds.	1830

NOTE:
 For top beam Sec. A-A, B-B etc. See sheet - 15
 Bar Details - sheet - 30
 Anchor Bolt Details - Sh. 15 + 18
 Pier Protection Is - Sh. - 29
 Pile Caps + Points - Sh. - 18

Work this sheet with sheet - 15.
 * Pier Protection Is. included in Bill of Material - Sh. No. 29

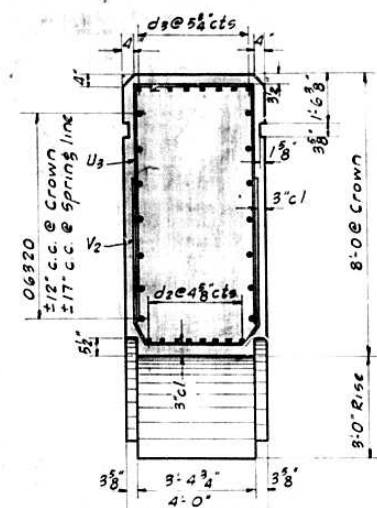
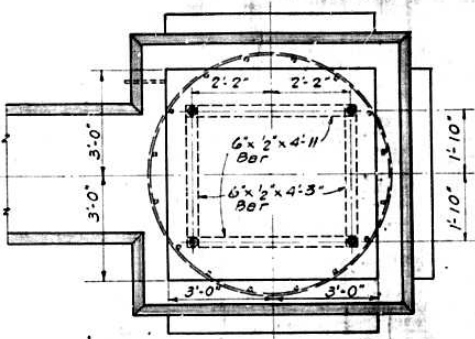
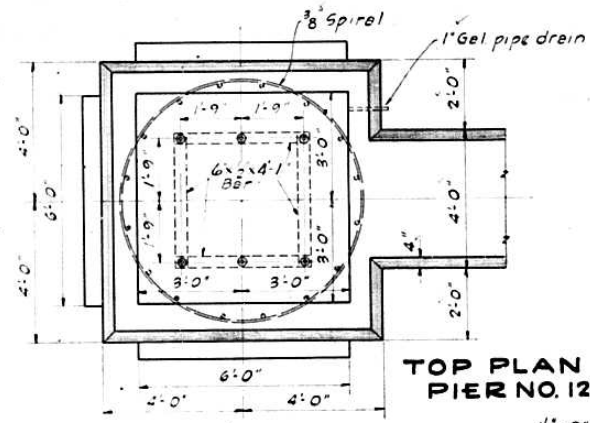
COMPUTED	R.M. Murphy	EXAMINED	V. F. ...
CHECKED	A. R. ...	PASSED	
DRAWN	R.M. J. Malachuk	APPROVED	
CHECKED	A. R. ...		
SPECIAL	ASSEMBLED		
	CHECKED		

SHOWING OUTLINE SHOWING REINFORCEMENT

ELEV. PIER-13 LOOKING WEST

PIER No. 13
 ILLINOIS RIVER BRIDGE
 FOR REFERENCE ONLY
 PEORIA - TAZEWELL COUNTIES

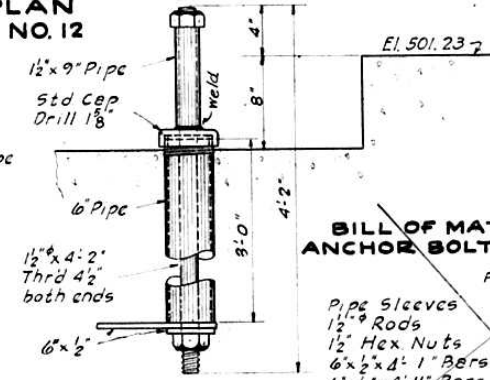
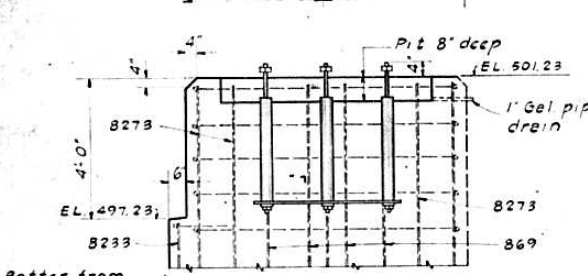
REFERENCE ONLY



TOP PLAN PIER NO. 12

TOP PLAN PIER NO. 11

SECTION DD

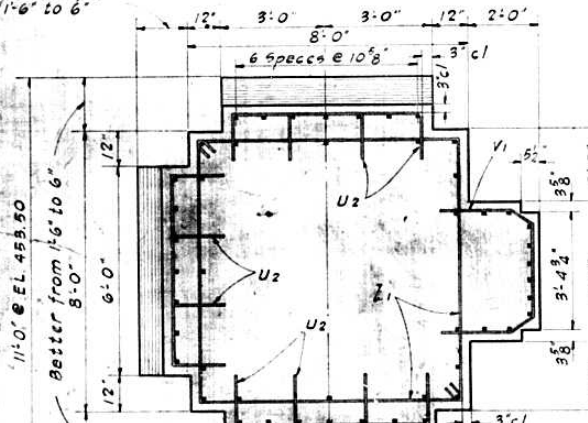


BILL OF MATERIAL FOR ANCHOR BOLT ASSEMBLIES

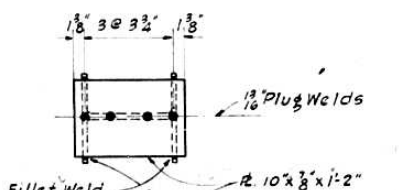
	PIER NO. 11	PIER NO. 12
Pipe Sleeves	4	6
1 1/2" Rods	4	6
1 1/2" Hex Nuts	8	12
6x2x4-11 Bars	2	4
6x2x4-3 Bars	2	4

2 Complete Assemblies required for each Pier.

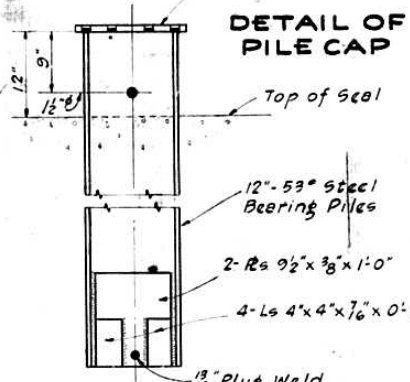
NOTE: Remove all water from pipe sleeves, grease threads and seal as shown. Paint exposed metal one coat red lead paint.



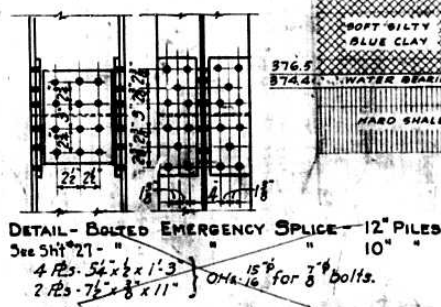
SECTION-A SAME FOR PIERS NO. 11, NO. 12



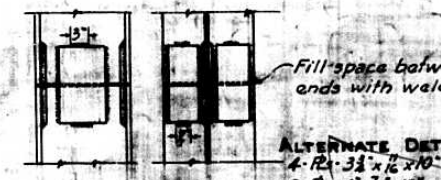
DETAIL OF PILE CAP



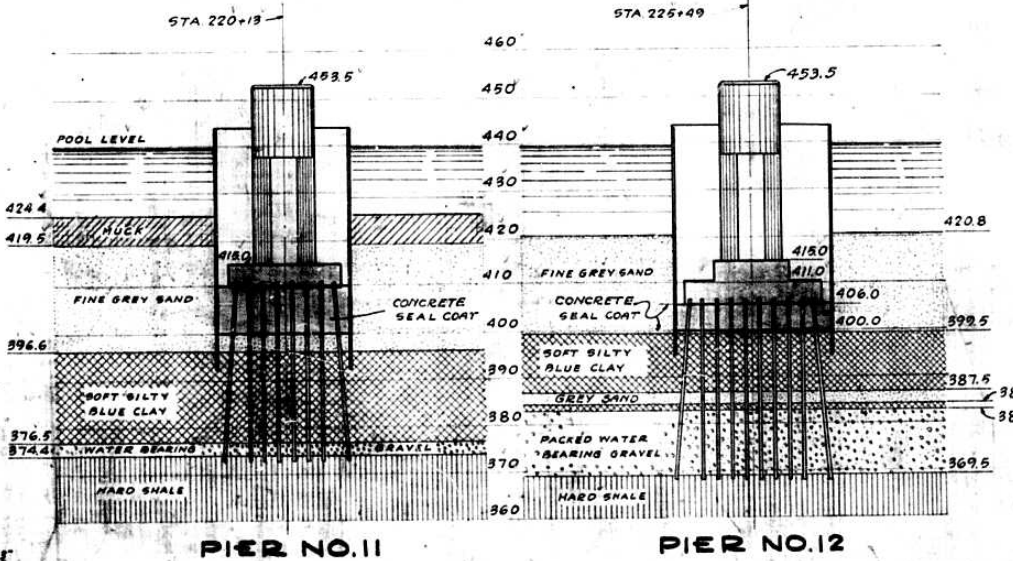
DETAIL OF PILE POINT FOR 12'-53" PILE.



DETAIL-BOLTED EMERGENCY SPLICE-12" PILES



ALTERNATE DETAIL FOR ARC-WELDED SPLICE



PIER NO. 11

PIER NO. 12

Subsoil conditions shown above are as indicated by test borings taken at the intersection of the center line of each pier and the center line of rows bearing piles shown. 12'-53" steel, driven to refusal in shale.

REINFORCEMENT BARS

MARK	NUMBER		SIZE	LENGTH
	NO. 11	NO. 12		
4200	122	128	1/2"	20'-0"
4280	4	4	1/2"	28'-0"
4270	8	8	1/2"	27'-0"
0650	160	44	3/4"	5'-0"
0653	32	32	3/4"	5'-3"
06150	78	116	1/2"	15'-0"
06256	78	116	3/4"	25'-6"
06320	14	14	3/4"	32'-0"
869	144	152	1"	6'-9"
8233	182	190	1"	23'-3"
8273	34	34	1"	27'-3"
8300	7	7	1"	30'-0"
b1		116	1"	12'-3"
b1		112	1 1/4"	29'-5"
b10	74		1 1/4"	24'-3"
c1	46	46	1/2"	25'-6"
d2	8	8	1"	39'-0"
d3	16	16	1"	28'-9"
71	188	188	1/2"	15'-9"
76	24	24	1/2"	7'-6"
U1	264	264	1/2"	7'-6"
U2	252	252	1/2"	6'-9"
U3	11	11	1/2"	7'-6"
U4	10	10	1/2"	7'-6"
V1	66	66	2"	8'-0"
V2	11	11	1/2"	13'-0"
S2	2	2	3/8"	510'-0"

ITEM	UNIT	QUANTITY	
		PIER NO. 11	PIER NO. 12
Reinforcement Bars	Lbs	49360	63380
Class X Concrete	Cu.Yds	13253	17208
Seal Coat Concrete	"	6420	4504
Structural Steel	Lbs	1084	1390
Furnishing Steel Piles (41)	"	322665	408749
Pile Caps & Points	"	12730	16000
Driving Steel Piles	Lin. Ft.	6060	7636
Test Piles	Each	2	2
Cofferdam	Each	one	one
Class B Excavation	Cu.Yds.	1585	1561

* Pier Protection Rs. included in Bill of Material on sheet No. 29.

COMPUTED	Franklin Co.
CHECKED	A.P. Jones
DRAWN	F.S.C. 4P
CHECKED	A.P.J.
ASSEMBLED	
CHECKED	

EXAMINED 12-15-1939
 PASSED
 APPROVED

DETAILS, PIERS 11 & 12
 ILLINOIS RIVER BRIDGE
 FOR REFERENCE ONLY
 PEORIA-TAZEWELL COUNTIES

TRAFFIC CONTROL and PROTECTION SPECIAL
SHEET 1 of 4

FA. 31
NO. PEORIA
KZWELL 31 11



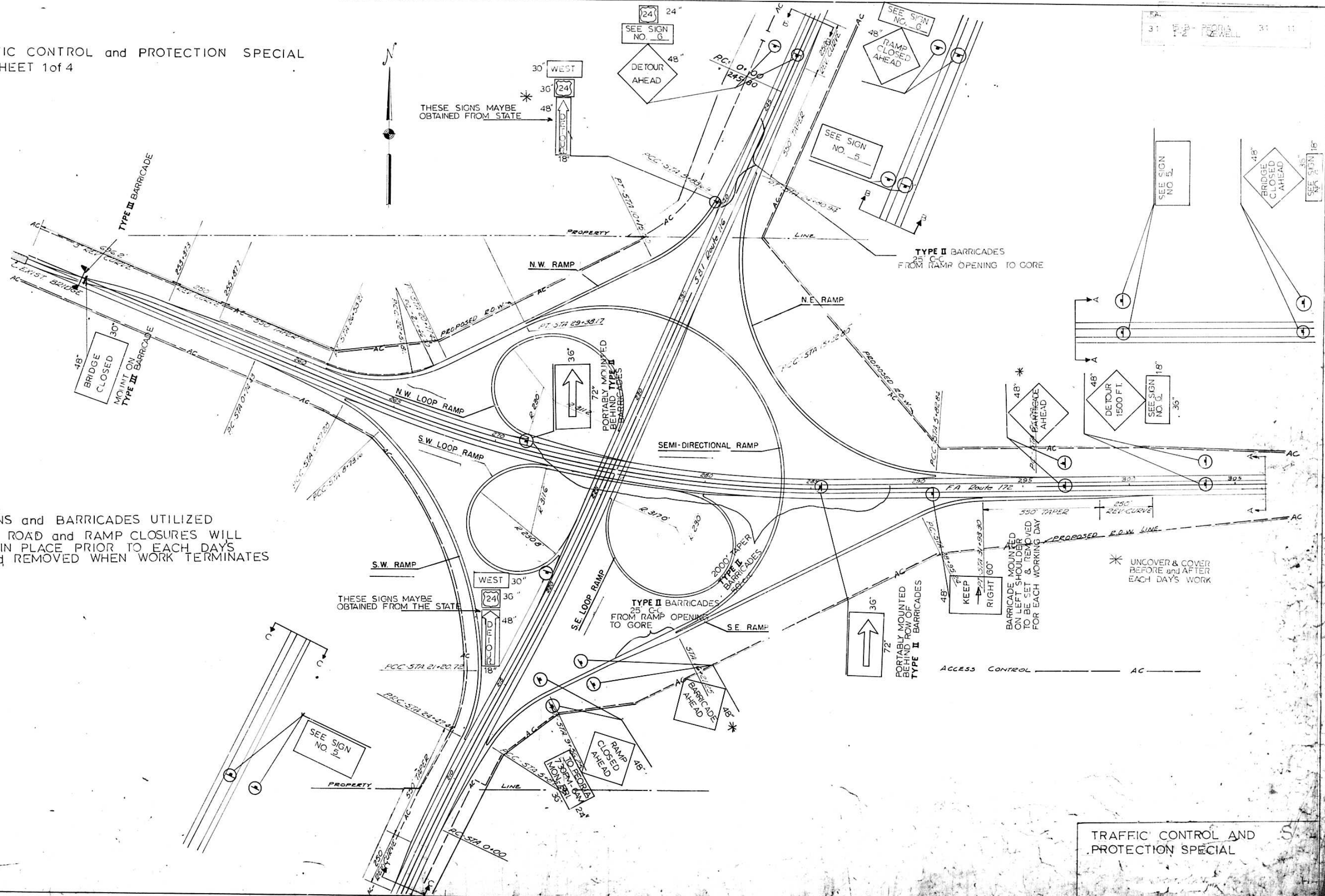
THESE SIGNS MAYBE OBTAINED FROM STATE

ALL SIGNS and BARRICADES UTILIZED FOR THE ROAD and RAMP CLOSURES WILL BE SET IN PLACE PRIOR TO EACH DAYS WORK and REMOVED WHEN WORK TERMINATES

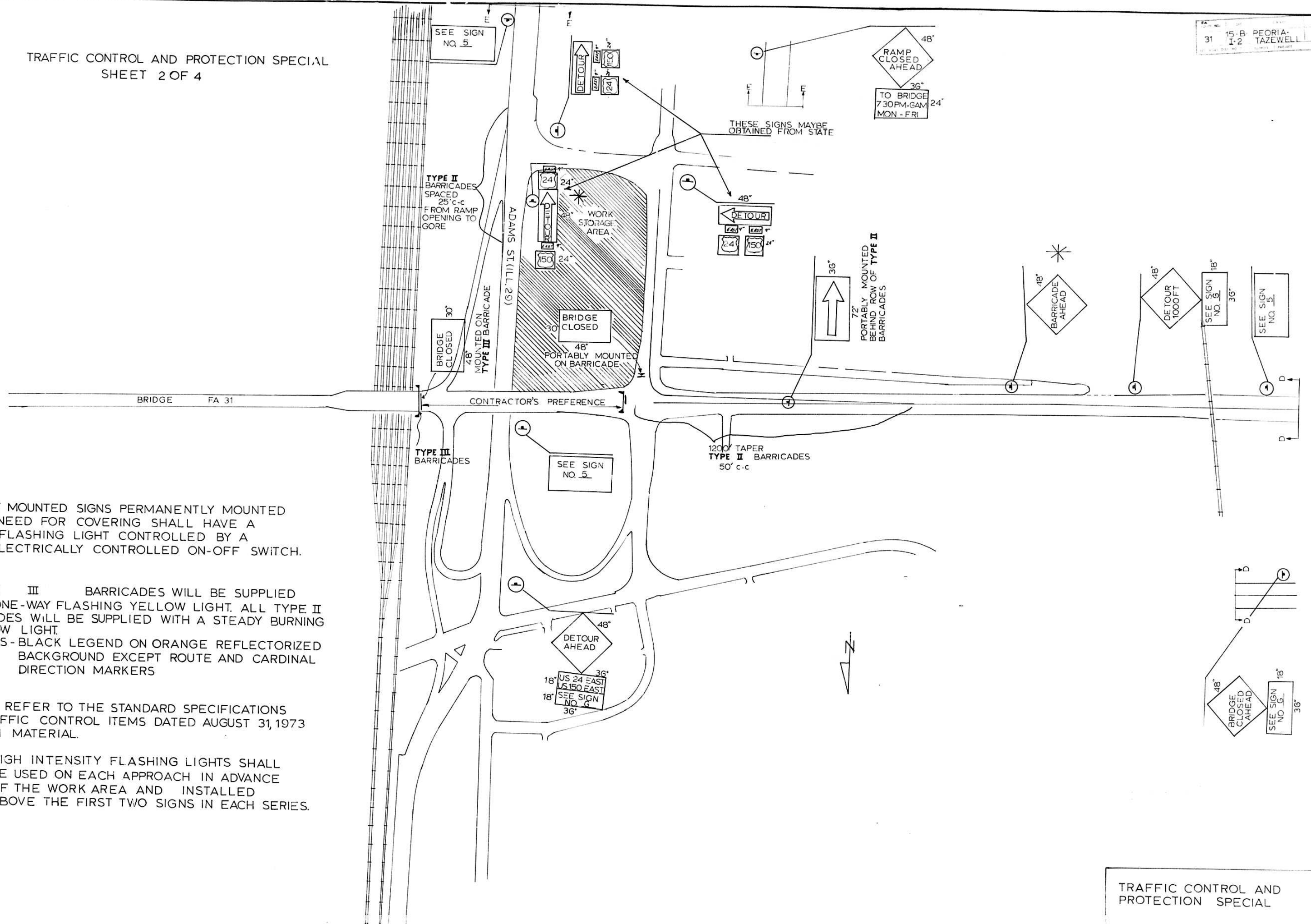
THESE SIGNS MAYBE OBTAINED FROM THE STATE

* UNCOVER & COVER BEFORE and AFTER EACH DAYS WORK

TRAFFIC CONTROL AND PROTECTION SPECIAL



TRAFFIC CONTROL AND PROTECTION SPECIAL
SHEET 2 OF 4



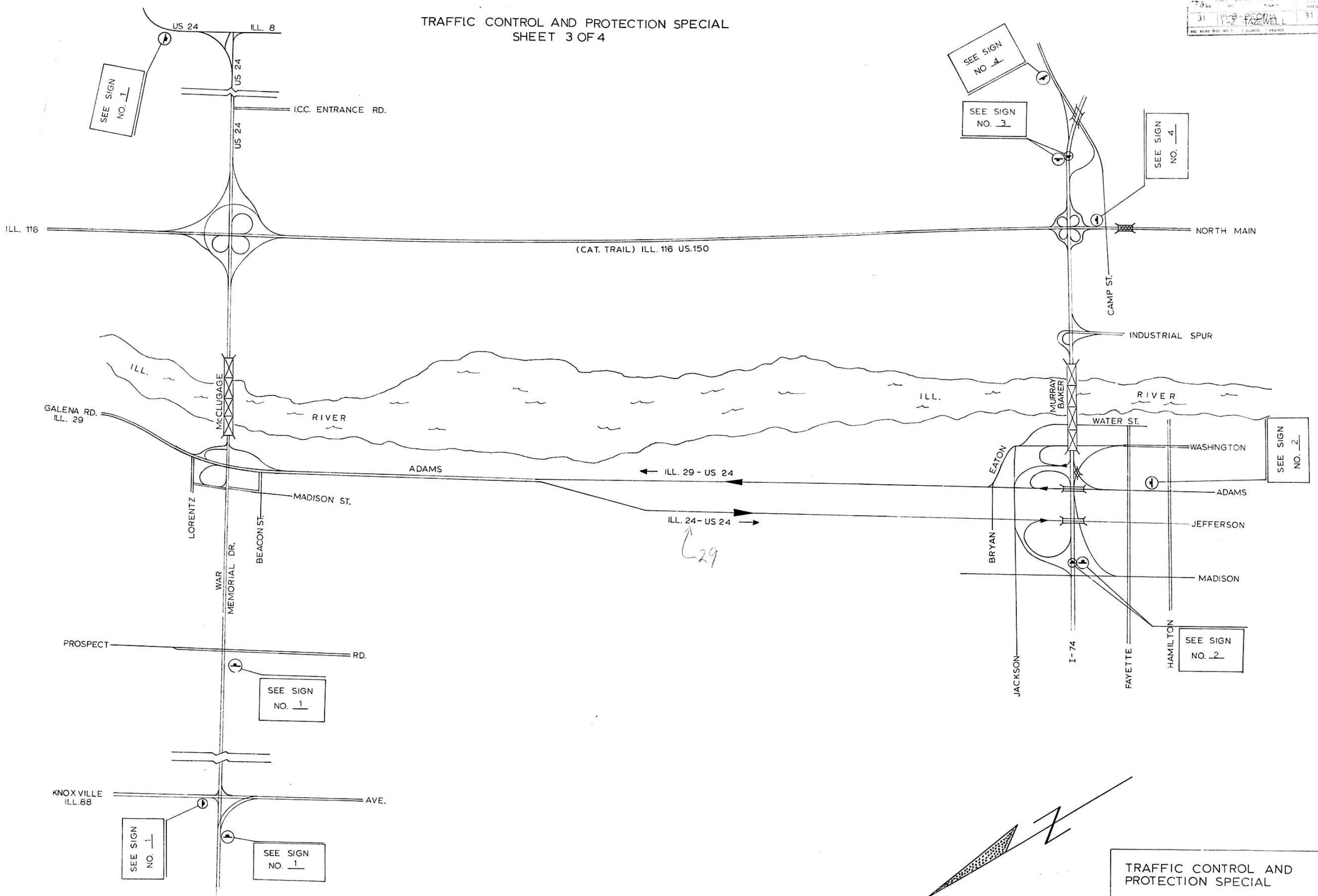
ALL POST MOUNTED SIGNS PERMANENTLY MOUNTED WITH NO NEED FOR COVERING SHALL HAVE A YELLOW FLASHING LIGHT CONTROLLED BY A PHOTO-ELECTRICALLY CONTROLLED ON-OFF SWITCH.

ALL TYPE III BARRICADES WILL BE SUPPLIED WITH A ONE-WAY FLASHING YELLOW LIGHT. ALL TYPE II BARRICADES WILL BE SUPPLIED WITH A STEADY BURNING YELLOW LIGHT.
ALL SIGNS - BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND EXCEPT ROUTE AND CARDINAL DIRECTION MARKERS

NEED TO REFER TO THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS DATED AUGUST 31, 1973 FOR SIGN MATERIAL.

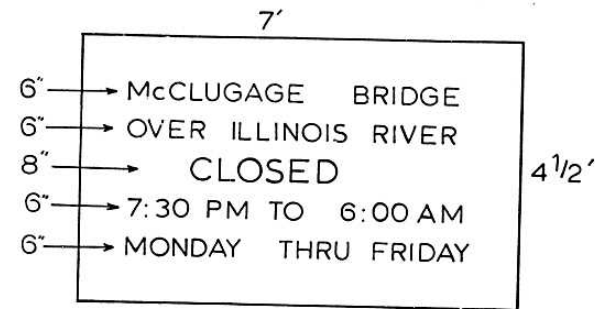
HIGH INTENSITY FLASHING LIGHTS SHALL BE USED ON EACH APPROACH IN ADVANCE OF THE WORK AREA AND INSTALLED ABOVE THE FIRST TWO SIGNS IN EACH SERIES.

TRAFFIC CONTROL AND PROTECTION SPECIAL
SHEET 3 OF 4

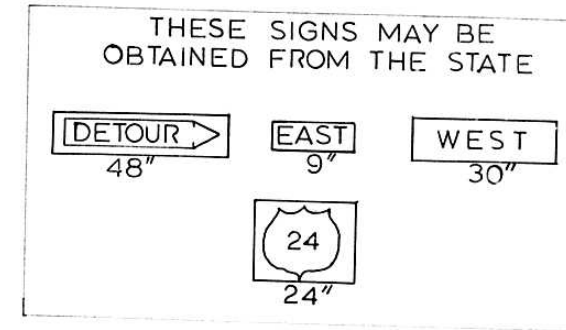
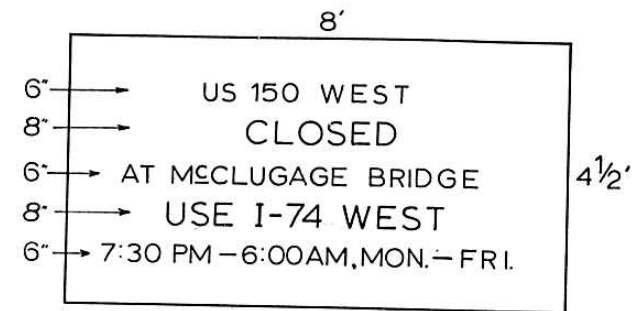


TRAFFIC CONTROL AND PROTECTION SPECIAL
SHEET 4 OF 4

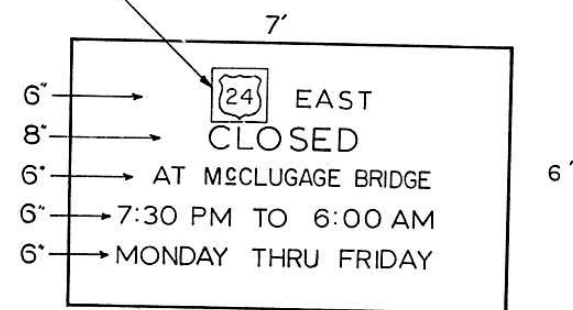
SIGN NO. 1



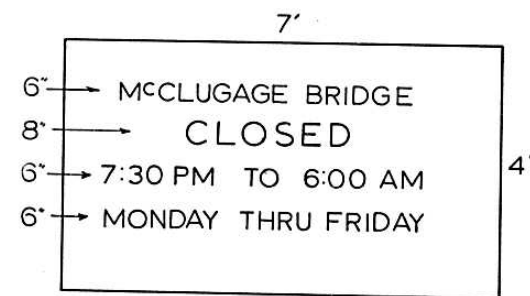
SIGN NO. 4



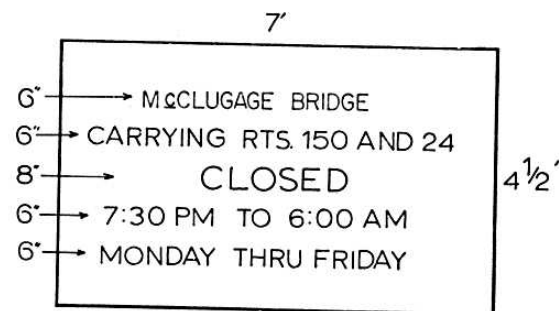
FURNISHED BY STATE
SIGN NO. 2



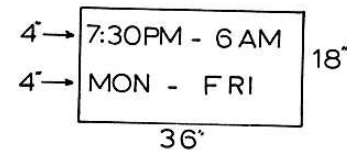
SIGN NO. 5



SIGN NO. 3



SIGN NO. 6



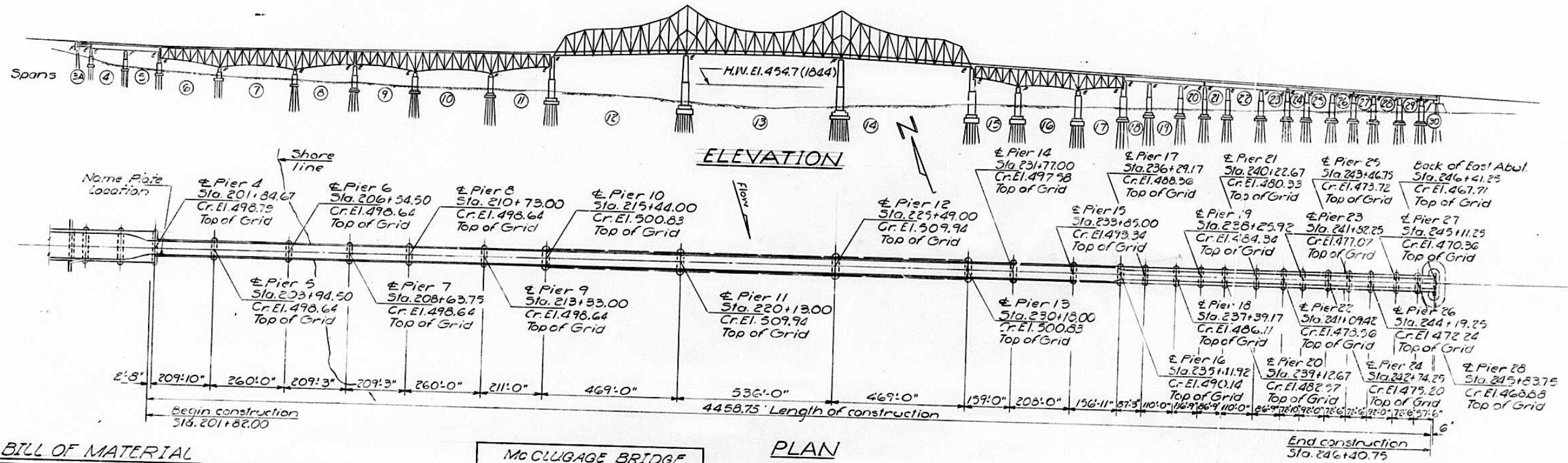
ALL SIGNS IN UPPER CASE LETTERING

B.M.

Existing structure-built in 1966 as F.A. Route 172, Section 15 D-E-F-L, Sta. 222+81.0

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Table with columns: ROUTE NO., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., SHEET NO. 17 SHEETS



TOTAL BILL OF MATERIAL

Table with columns: ITEM, UNIT, SUPER, TOTAL. Lists materials like Filled Steel Grid Floor, Structural Steel, etc.

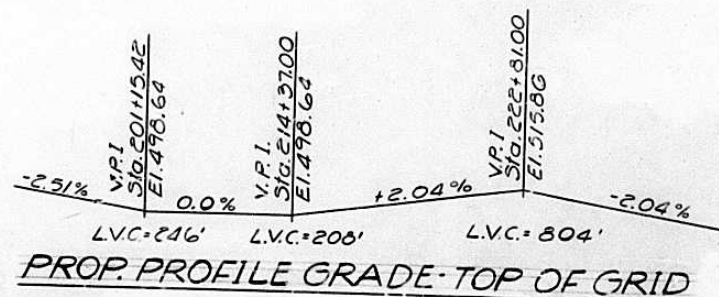
McCLUGAGE BRIDGE ILLINOIS RIVER REDECKED BY STATE OF ILL. PROJ. U-609(12) F.A. RT. 31 SEC. 15B-I-2 LOADING HS 20

NAME PLATE (See Std. 8113)

DESIGN STRESSES

fc = 1400 psi, fs = 20,000 psi - Rail, Reinf., fs = 27,000 psi - Grid Floor, 5" I-beam Min. Sec. Mod. = 1.693 in. 3- Grid Floor.

(New construction) DESIGN LOADING HS 20-44



PLAN

GENERAL NOTES

The Bridge Contractor shall remove and replace the existing roadway slab in modular sections. The replacement sections will be concrete filled grid flooring. Work will be permitted only in a 10 1/2 hour period each day from 7:30pm to 6 a.m. Two lane traffic shall be maintained at all other times. There will be no salvage. For bridging gaps between the grid and the existing deck see Special Provisions.

Calculated weight of Structural Steel A.A.S.H.O. M-222-30,230# A.A.S.H.O. M-183-233,650#

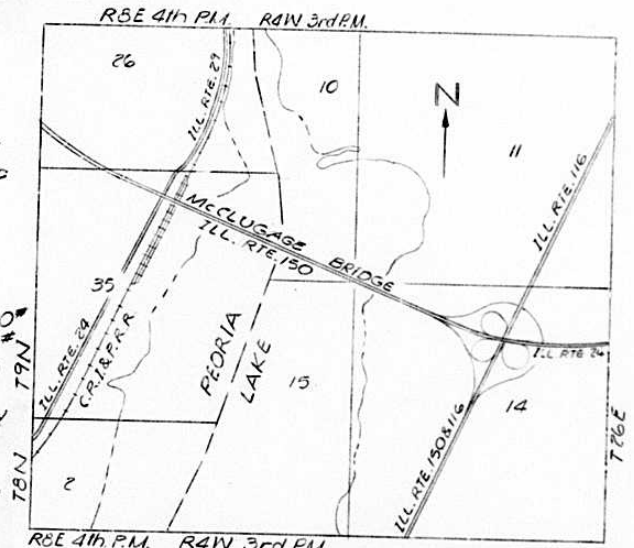
Fasteners shall be high strength bolts. Bolts 3/8", open holes 15/16", unless otherwise noted. The finger plate expansion device at Pier 10 shall be assembled in the proper position with the ends in place and shall be left assembled for shop inspection.

The finger plate at Pier 10 shall be flame cut as provided in Article 507.04(1) of the Standard Specifications. See Special Provisions for painting of Structural Steel.

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

Expansion bolts shall consist of self drilling expansion anchors and 3/4" x 9" hooked bolts. Removal of existing expansion devices is incidental to Removal of Existing Concrete Deck.

All #20 gauge form pans and form plates shall be galvanized in accordance with AASHO designation M-111. Jack and reposition bearings at Piers 4 and 23 and Pier 2A. See Special Provisions.

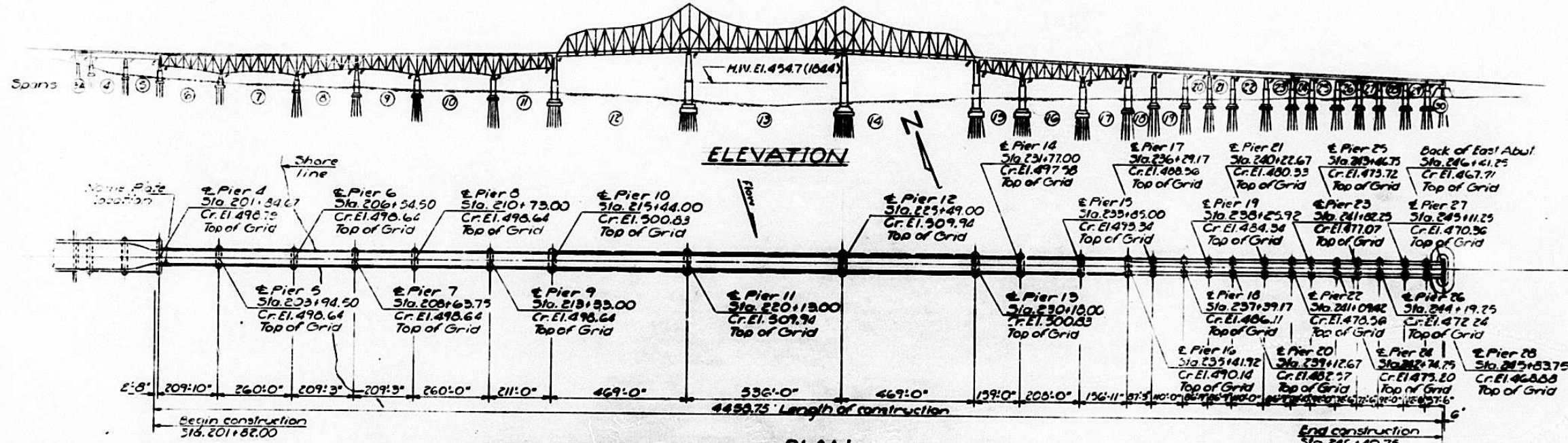


LOCATION SKETCH

GENERAL PLAN & ELEVATION PROJECT U-609 (12) McCLUGAGE BRIDGE REDECKING F.A. ROUTE 31 SECTION 15B-I-2 PEORIA-TAZEWELL COUNTIES

DESIGNED Dan Schiller, CHECKED R. F. RODKEY, J. SCHNELLER, DRAWN JS, CHECKED R. F. RODKEY

EXAMINED, PASSED, APPROVED with signatures and dates.



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	TOTAL
Filled Steel Grid Floor	Sq. Ft.	132,890	132,890
Structural Steel	L.S.		L.S.
Name Plates	Each	1	1
Removal of Existing Concrete Deck	L.S.		L.S.
Expansion Bolts (3/8")	Each	81	81
Steel Railing	Lin. Ft.	8923	8923
Floor Drains	Each	272	272
Glass X Concrete	Sq. Yds.	6.6	6.6
Preformed Joint Spacer (1/2")	Lin. Ft.	900	900
Preformed Joint Spacer (6")	Lin. Ft.	30	30
Neoprene Expansion Joint (6")	Lin. Ft.	30	30
Neoprene Expansion Joint (6 1/2")	Lin. Ft.	30	30
Neoprene Expansion Joint (9")	Lin. Ft.	60	60
Neoprene Expansion Joint (15")	Lin. Ft.	30	30
Cleaning & Painting	L.S.		L.S.

* See Special Provisions
** All Structural Steel which is shop attached to the Grid is included in "Filled Steel Grid Floor" pay item.

**McCLUGAGE BRIDGE
ILLINOIS RIVER
REDECKED BY
STATE OF ILL. PROJ. U-609(12)
F.A. RT. 31 SEC. 15B-1-2
LOADING HS 20**

**NAME PLATE
(See Std. 8.15)**

DESIGN STRESSES

$f_c = 1400$ psi
 $f_s = 20,000$ psi - Rail, Reinf.
 $f_s = 27,000$ psi - Grid Floor
5" I-beam Min. Sec. Mod. = 1699 in.⁴
Grid Floor.

(New construction)
DESIGN LOADING HS 20-44

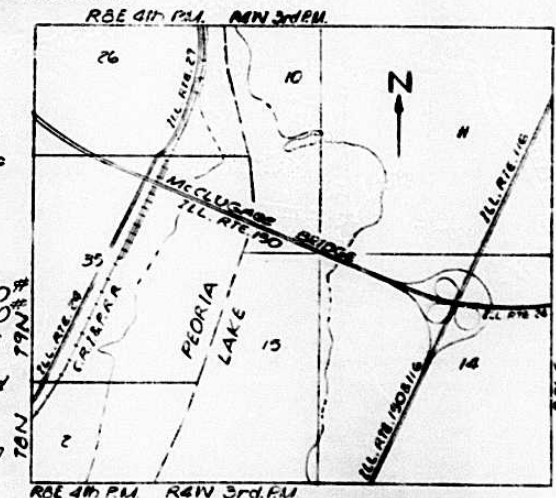
PLAN

GENERAL NOTES

The Bridge Contractor shall remove and replace the existing roadway slab in modular sections. The replacement sections will be concrete filled grid flooring. Work will be permitted only in a 10-hour period each day from 7:30 a.m. to 6 a.m. Two lane traffic shall be maintained at all other times. There will be no salvage for bridging gaps between the grid and the existing deck see Special Provisions.

Calculated weight of Structural Steel A.A.S.H.O. M-222 = 34,420 lbs
A.A.S.H.O. M-183 = 235,890 lbs
Fasteners shall be high strength bolts. Bolts 3/4" open holes 1/2", unless otherwise noted.
The finger plate expansion device of Pier 10 shall be assembled in the proper position with the ends in place and shall be left assembled for shop inspection.
The finger plate at Pier 10 shall be flame cut as provided in Article 507.04(1) of the Standard Specifications.
See Special Provisions for painting of Structural Steel.

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
Expansion bolts shall consist of self-drilling expansion anchors and 3/4" x 9" hooked bolts.
Removal of existing expansion devices is incidental to removal of existing concrete deck.
All #20 gauge form pans and form plates shall be galvanized in accordance with A.A.S.H.O. designation M-111.
Jack and reposition bearings at Piers 4 and 28 and Pier 2A. See Special Provisions.

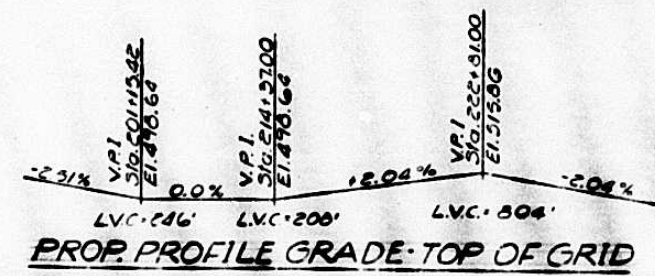


LOCATION SKETCH

AS REVISED 5-24-74 926
GENERAL PLAN & ELEVATION
PROJECT U-609 (12)
McCLUGAGE BRIDGE REDECKING
F.A. ROUTE 31
SECTION 15B1-2
PEORIA-TAZEWELL COUNTIES

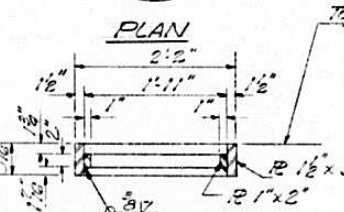
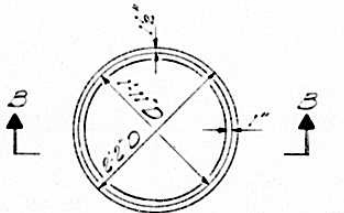
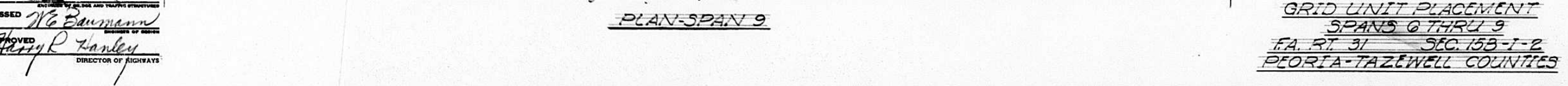
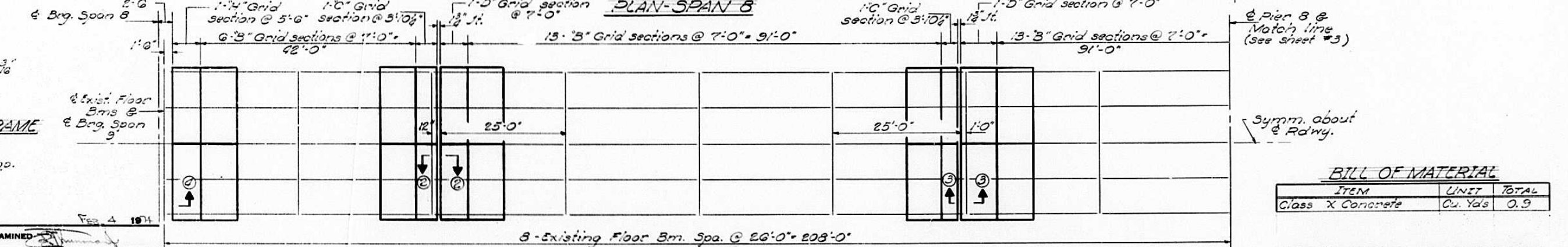
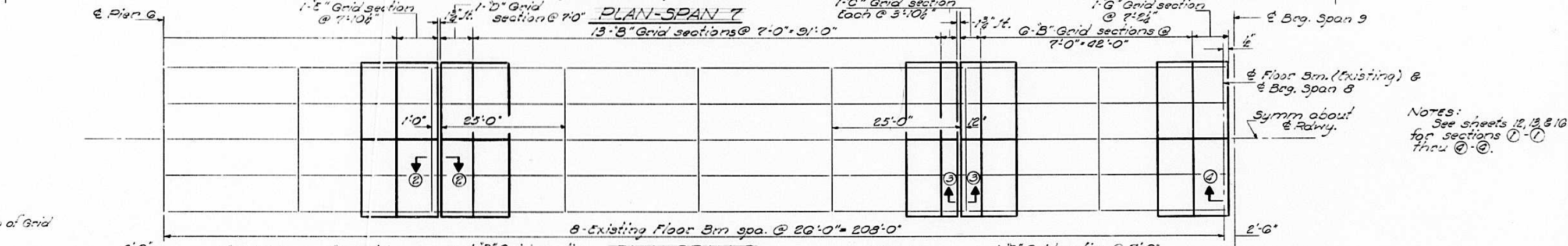
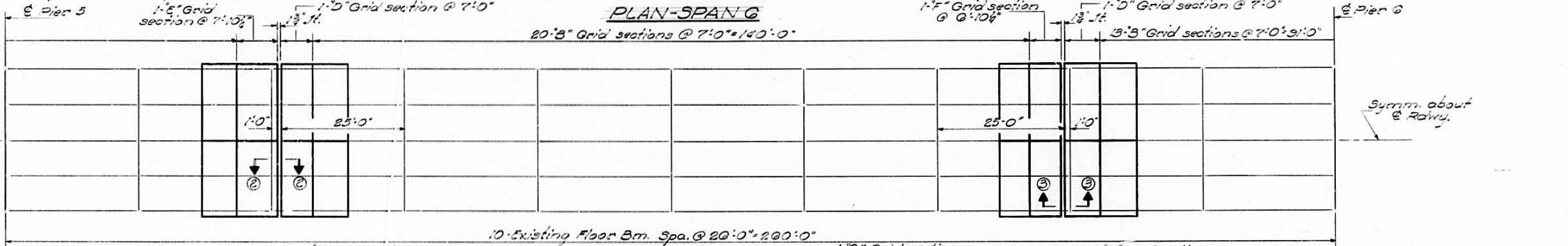
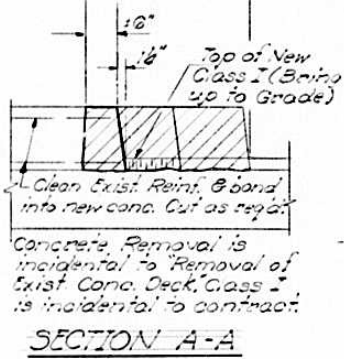
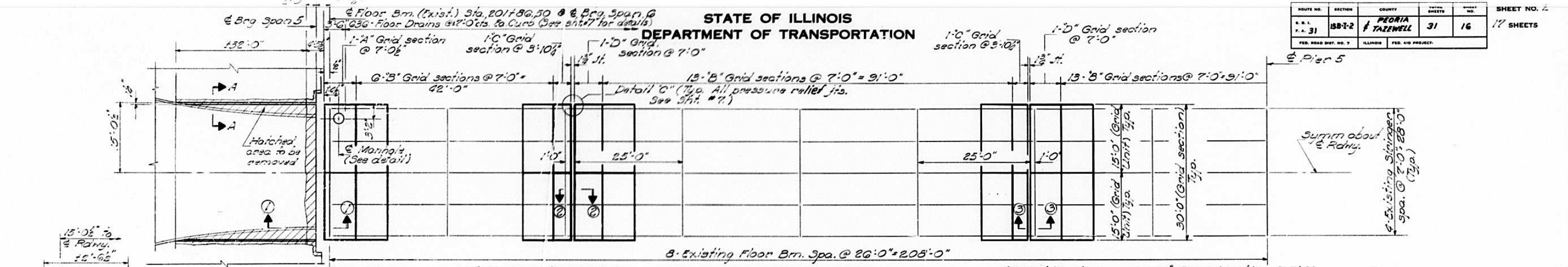
DESIGNED *Handwritten*
CHECKED R. F. ROBEY
J. SCHNELLE
DRAWN
CHECKED R. F. ROBEY

FEBRUARY 4 1974
EXAMINED *Handwritten*
PASSED *Handwritten*
APPROVED *Handwritten*



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SYMBOL SHEETS	SHEET NO.	SHEET NO. 2
P.A. 31	153-1-2	PEORIA TAZEWELL	31	16	17 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		



NOTES:
See sheets 12, 13, 8, 16
for sections 1-1
thru 9-9.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Class X Concrete	Cu. Yds	0.9

GRID UNIT PLACEMENT
SPANS 5 THRU 9
P.A. RT 31 SEC. 153-1-2
PEORIA-TAZEWELL COUNTIES

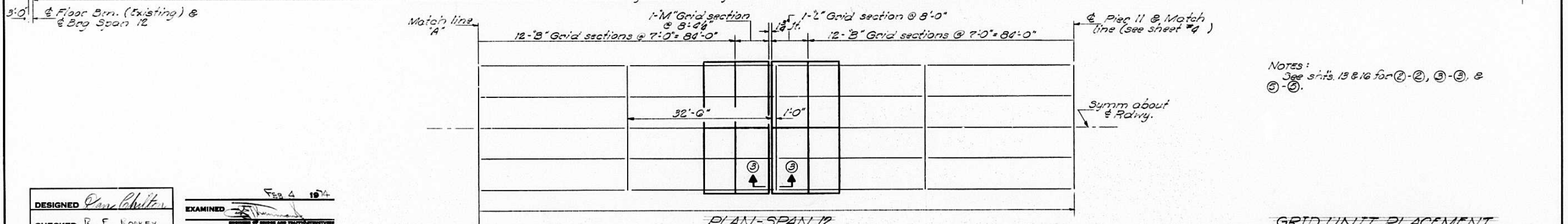
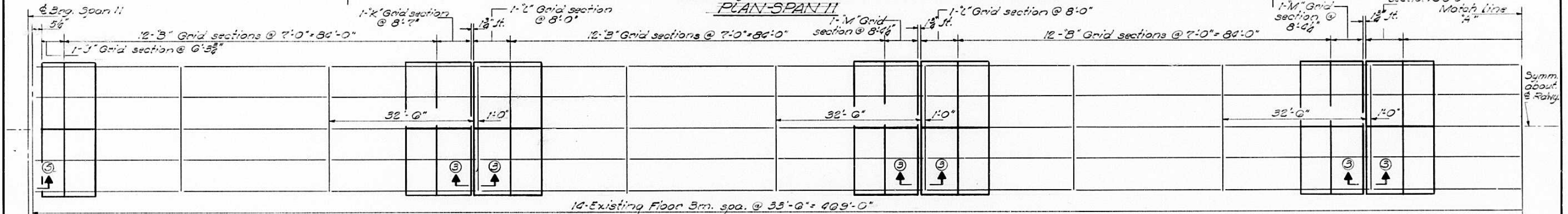
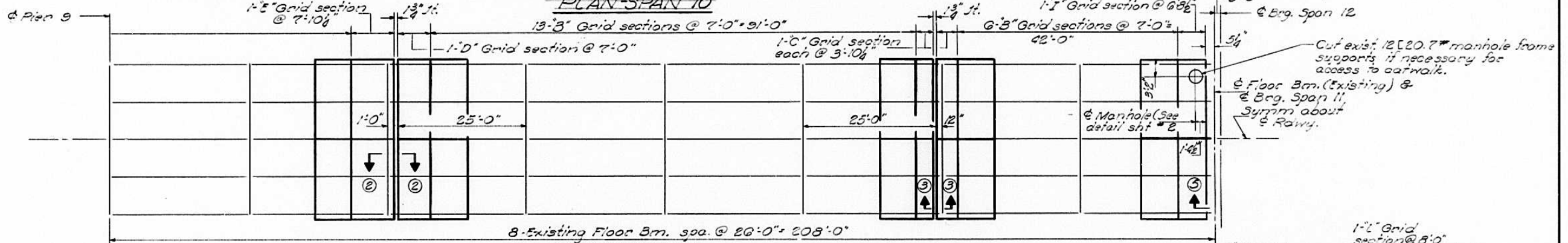
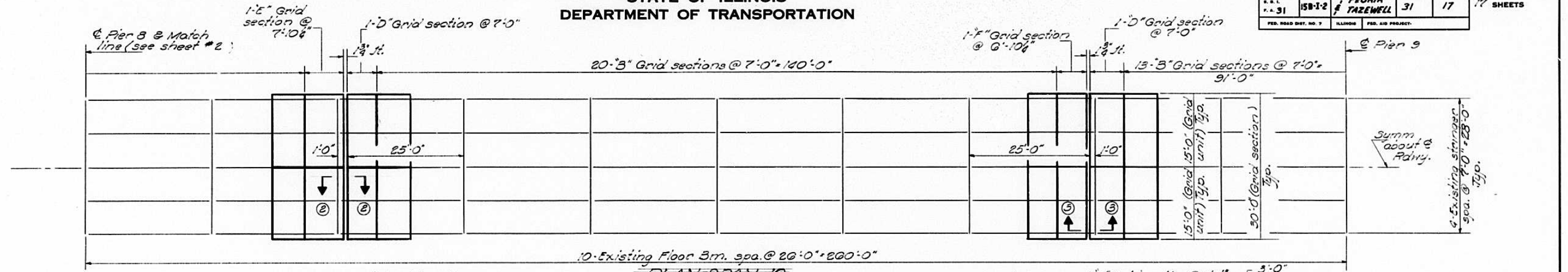
DESIGNED *David K. Miller*
CHECKED R. F. ROONEY
DRAWN J. SCHNELLER
CHECKED R.F.R.

EXAMINED *[Signature]*
PASSED *W. Baumann*
APPROVED *Harry R. Hanley*
DIRECTOR OF HIGHWAYS

FEB 4 1941

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A. 31	15B-1-2	PEORIA-TAZEWELL	31	17
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



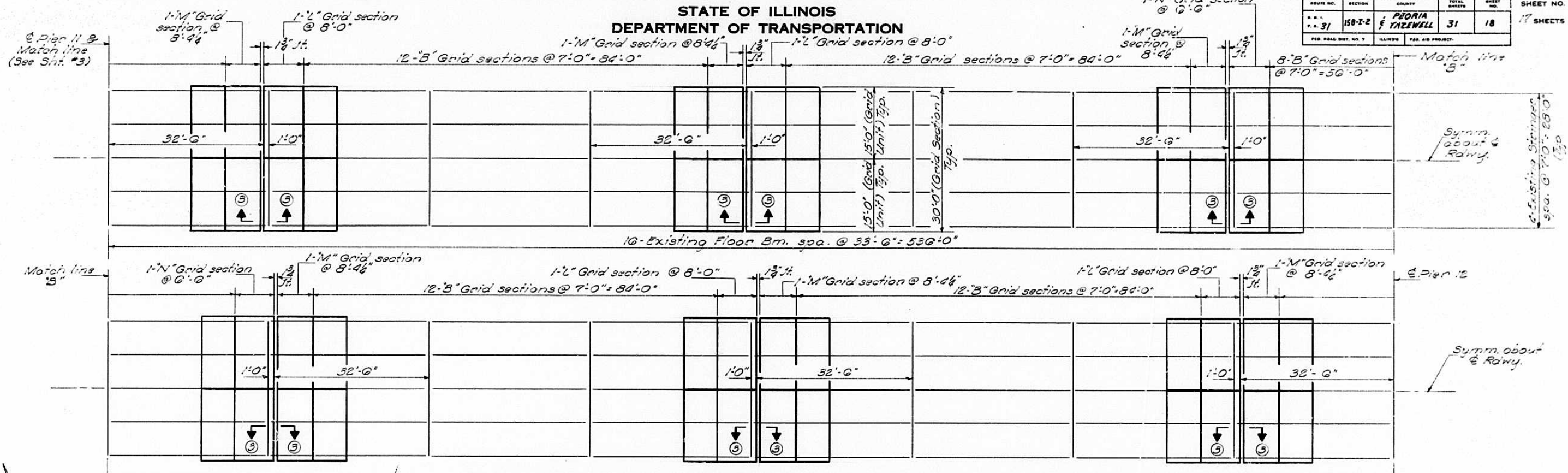
NOTES:
See sfts. 13 & 16 for (2)-(2), (3)-(3), & (3)-(3).

DESIGNED *Paul Schiltan*
CHECKED R. F. KOSKEY
DRAWN J. SCHNELLER
CHECKED R. F. K.
EXAMINED *[Signature]*
PASSED *McBaumann*
APPROVED *Harry R. Hanley*
DIRECTOR OF HIGHWAYS
FEB 4 1974

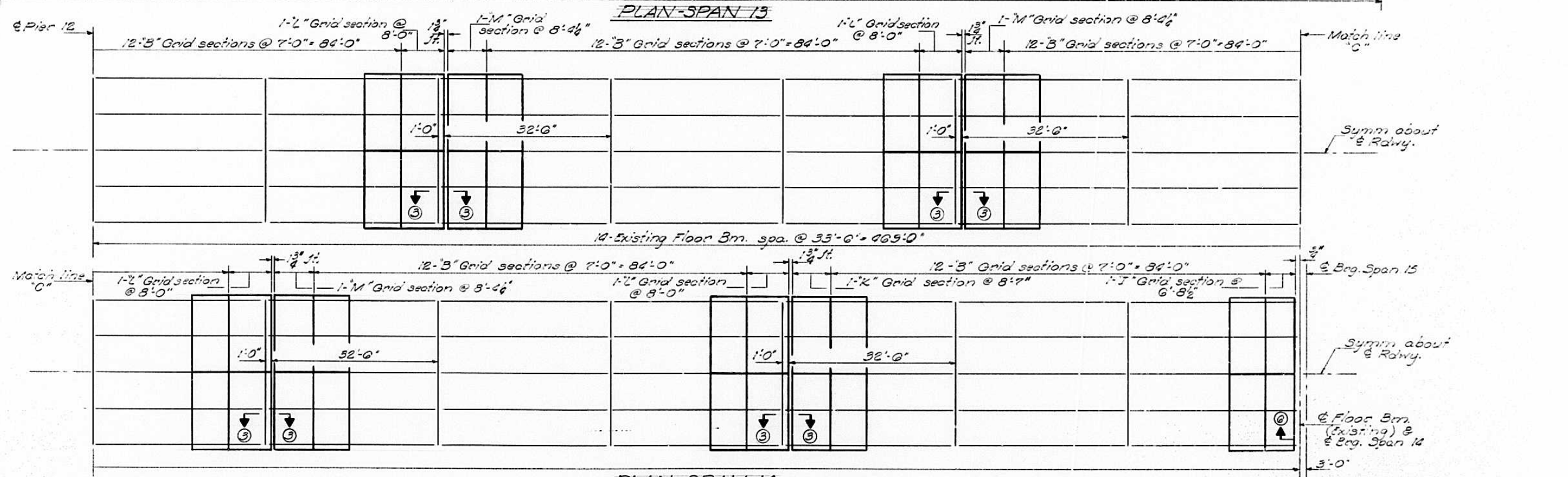
GRID UNIT PLACEMENT
SPANS 10 THRU 12
P.A. RT. 31 SEC. 15B-1-2
PEORIA-TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
31	15B-1-2	PEORIA & TAZEWELL	31	18	17 SHEETS
PER. ROAD DIST. NO. 7		ILLINOIS		F&A. PROJ. NO.	



PLAN-SPAN 13



PLAN-SPAN 14

DESIGNED	<i>San Chilton</i>
CHECKED	R. F. ROYCE
DRAWN	J. SCHNELLER
CHECKED	R. F. R.

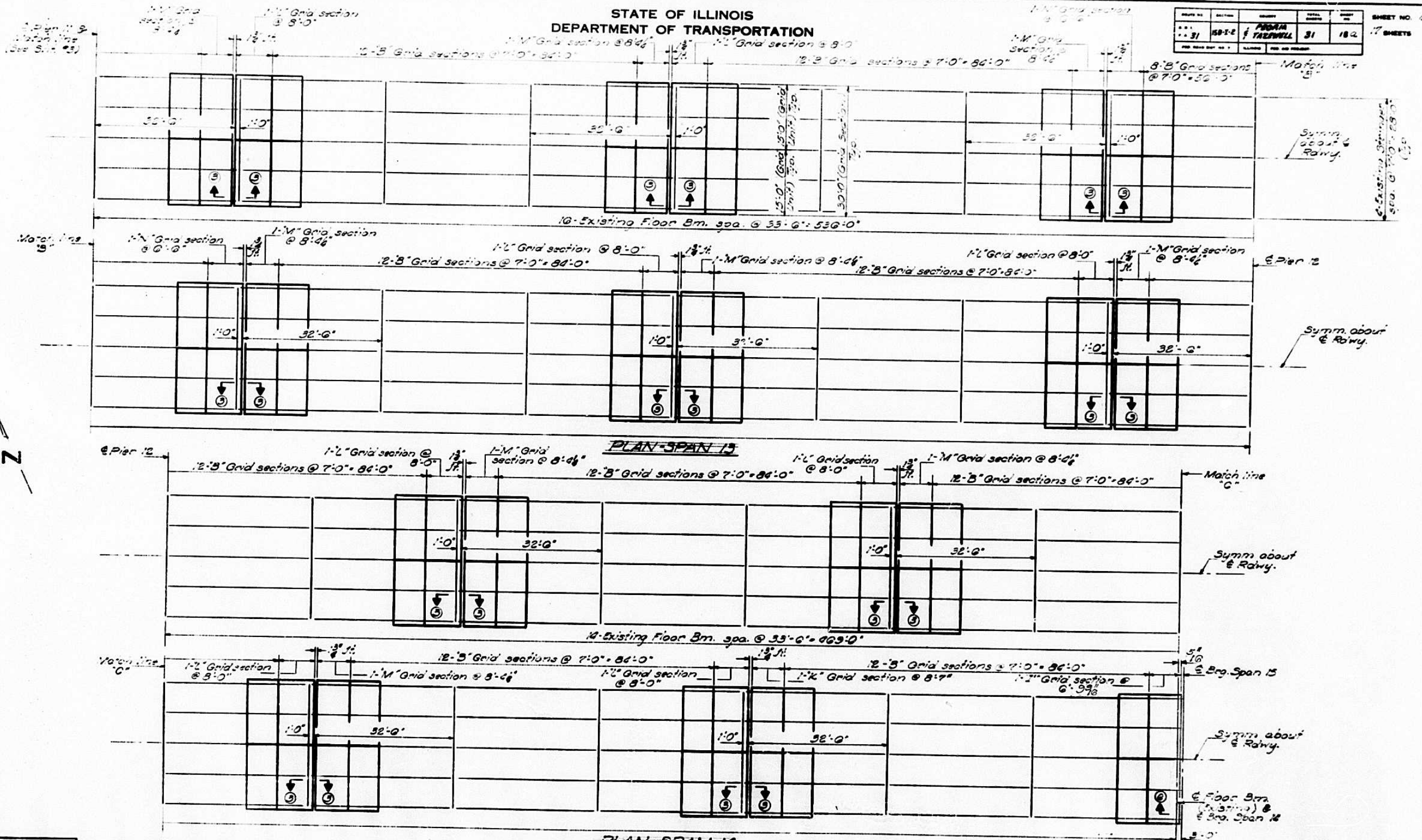
EXAMINED	<i>[Signature]</i>	Feb 4 1954
PASSED	<i>W. C. Baumgartner</i>	
APPROVED	<i>Harry C. Hanley</i>	DIRECTOR OF HIGHWAYS

NOTES:
See sh. 14 B. 10 for sections ③-③ & ⑥-⑥

GRID UNIT PLACEMENT
SPANS 13 & 14
F.A. RT. 31 SEC. 15B-1-2
PEORIA-TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	PROJECT	SECTION	SHEET NO.
3/1	150-1-2	PIER 12	31	184
SHEET NO. 1a				
17 SHEETS				



DESIGNED *Sam Miller*
 CHECKED *V. P. NOBLE*
 DRAWN *J. SCHNEIDER*
 CHECKED *R. T. K.*

EXAMINED *[Signature]*
 PASSED *W. B. BAUMANN*
 APPROVED *Harry R. Hanley*
 DIRECTOR OF HIGHWAYS

FEB 4 1974

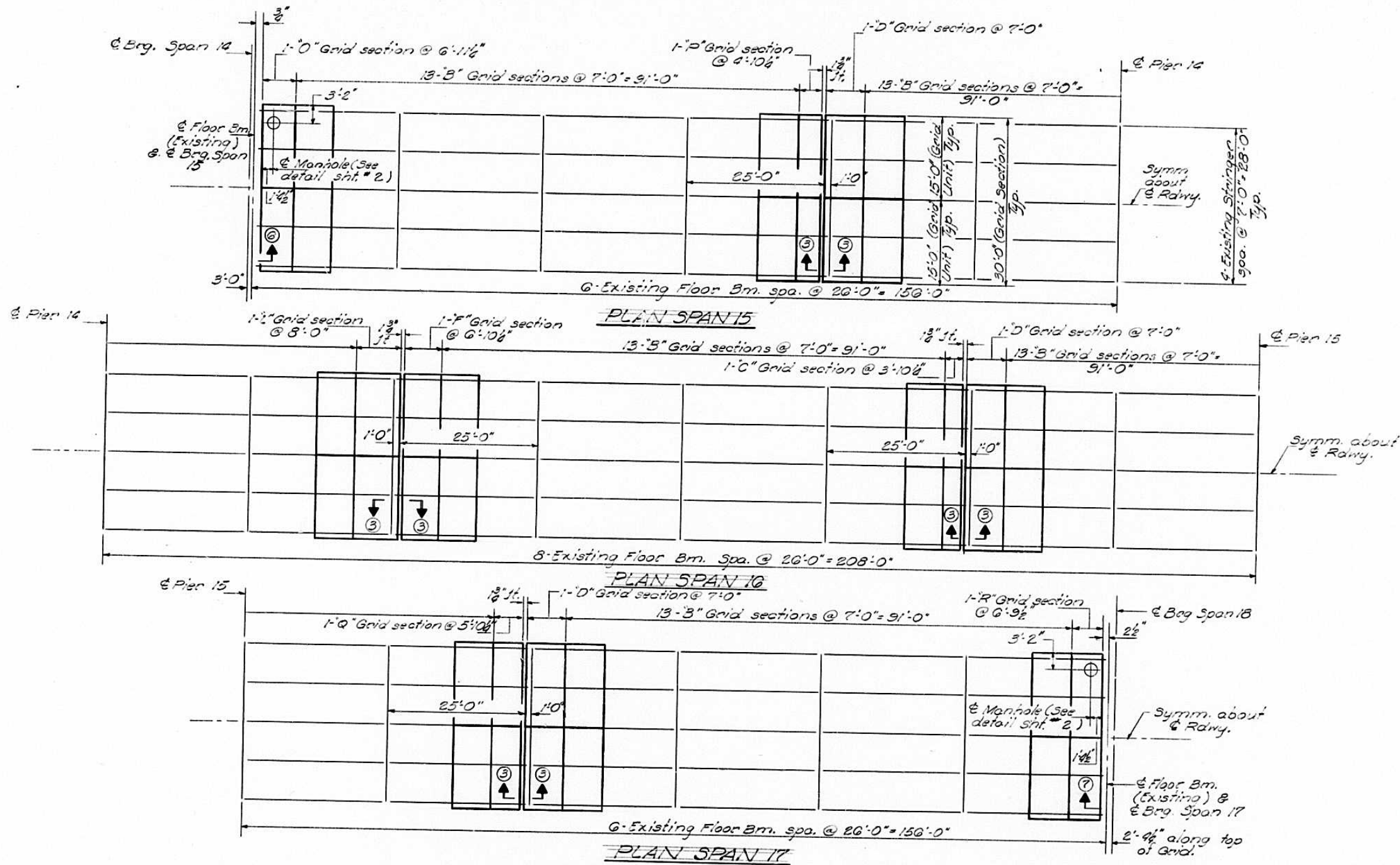
NOTES:
See site Nos. 16 for sections 3-3 & 6-6

AS REVISED 5-21-74 8226
 GRID UNIT PLACEMENT
 SPANS 13 & 14
 PART 3 SEC. 15-1-2
 FOR ILLINOIS COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A. 31	15B-1-2	PEORIA & TAZEWELL	31	19
ILLINOIS		FED. AID PROJECT		

SHEET NO. 5
17 SHEETS



NOTES:
See sheets 14, 15 & 16 for sections ③-③, ⑥-⑥, & ⑦-⑦.

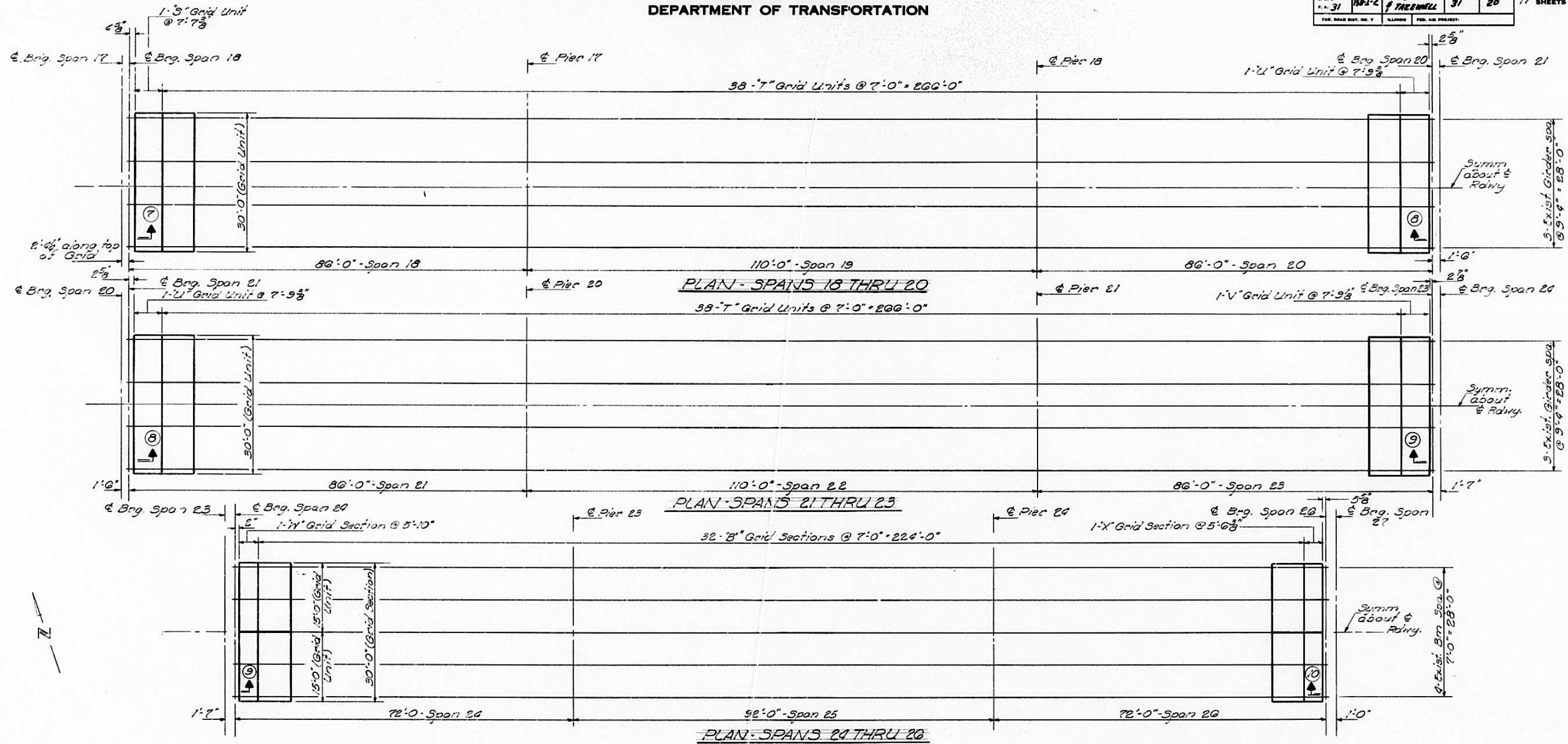
DESIGNED	<i>Van Chittan</i>	EXAMINED	<i>[Signature]</i>
CHECKED	R. F. ROONEY	PASSED	<i>[Signature]</i>
DRAWN	J. SCHNELLER	APPROVED	<i>[Signature]</i>
CHECKED	R. F. R.		

FEB. 4 1974
DIRECTOR OF HIGHWAYS

GRID UNIT PLACEMENT
SPANS 15 THRU 17
P.A. RT. 31 SEC. 15B-1-2
PEORIA - TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. OF SHEETS
I. R. L. P.A. 31	15B-I-2	PEORIA & TAZEWELL	31	20	17 SHEETS
VER. ROAD DIST. NO. 7	ILLINOIS	FDL. AND PROJECT			



NOTES:
See shts #15B-16 for sections 7-9 & 10-12.

DESIGNED *Handwritten Signature*
CHECKED R. F. RODKEY
DRAWN J. SCHWELLER
CHECKED R. F. R.

EXAMINED *Handwritten Signature*
PASSED *Handwritten Signature*
APPROVED *Handwritten Signature*
DIRECTOR OF HIGHWAYS

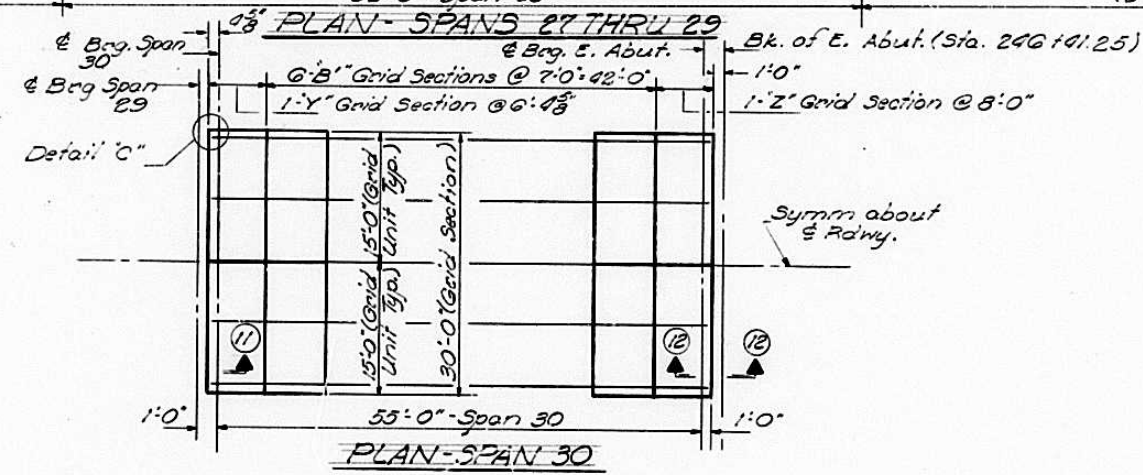
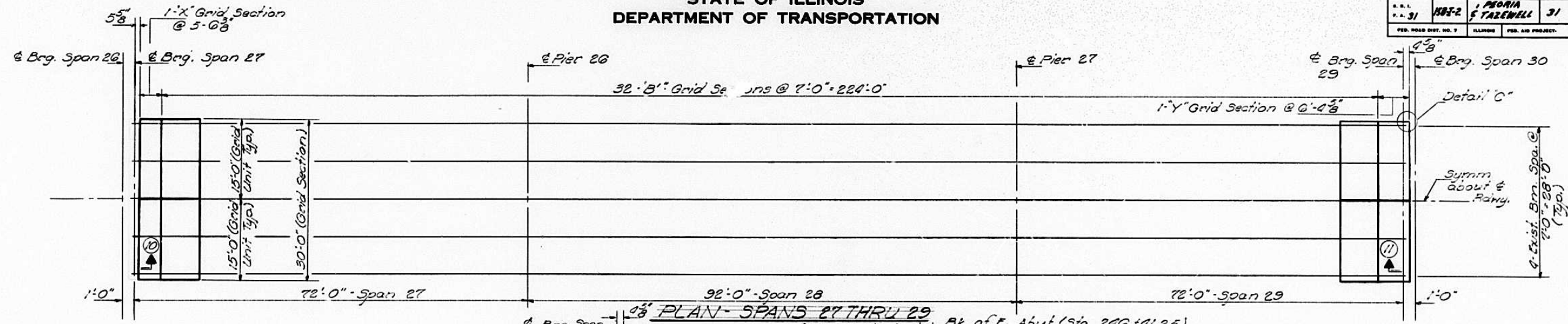
FEB. 4 1974

GRID UNIT PLACEMENT
SPANS 18 THRU 26
I. R. L. 31 SEC 15B-I-2
PEORIA-TAZEWELL COUNTIES

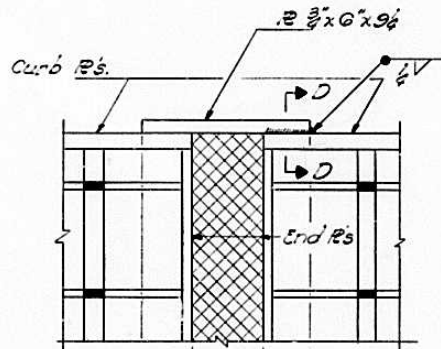
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R.R. 31	185-2	PEORIA & TAZEWELL	31	21
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 21
17 SHEETS



NOTES:
See sheet #16
for sections ①-④,
⑦-⑩ & ⑫-⑬.

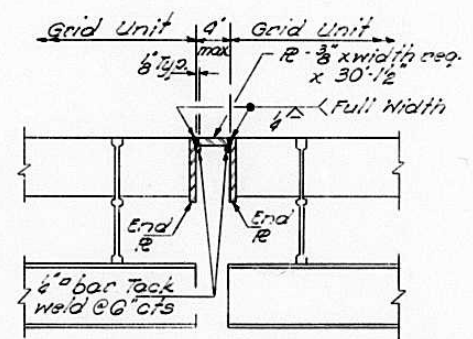


2 1/2" R.I.S.	2 1/8"	1 3/4"	2 1/8"
4" R.I.S.	1 3/8"	2 1/2"	1 3/8"
Gap Detail	1"	4"	1"
	min.	max.	min.

DETAIL C

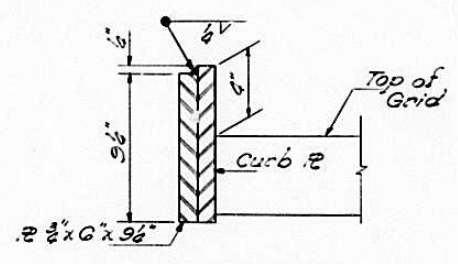
Showing treatment of curb plates at end of R.I.S. & Gap Jts. (Typ. all joints where R.I.S. & Gap Jts. are used.)

1/2" steel R's welded on 1/2" x 4" x 12" steel tubing. All R's or tubing shall be galvanized in accordance with A.A.S.H.O designation M-111

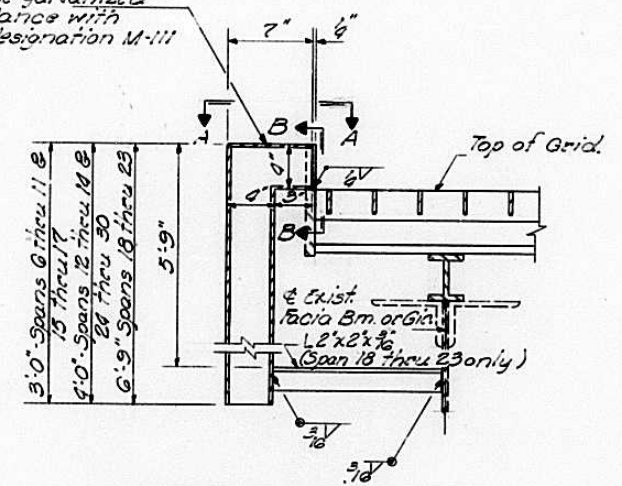


GAP DETAIL

The above Gap Detail shall be used to correct plan length and existing length differences between expansion joints and/or pressure relief joints. 4" is the maximum length to be taken at any one Gap joint. For differences larger than 4", use additional joints. It should be noted that this detail only allows correction for existing lengths longer than plan lengths. Incidental to Filled Steel Grid Floor.



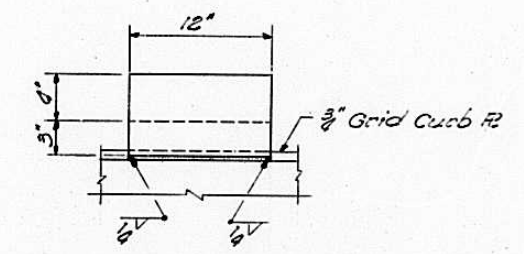
SECTION V-D-D



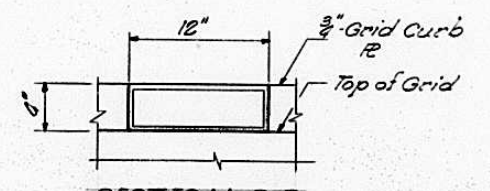
SECTION THRU FLOOR

DRAINS

Approx. No. of floor drains req'd:
3'-0" drains = 538
4'-0" drains = 572
6'-9" drains = 162



VIEW A-A



SECTION B-B

NOTES:
4' x 12" opening to be field cut in 3/4" curb plate. Location to be determined by the Engineer.
Drains to be spaced @ 17'-0" cts. each curb, spans 6 thru 30. Space to miss rail post connections, Piers and expansion devices.

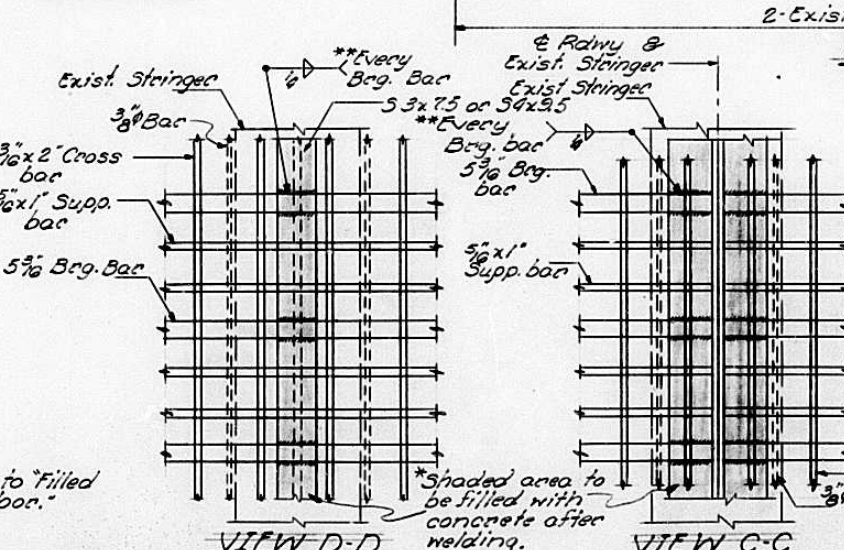
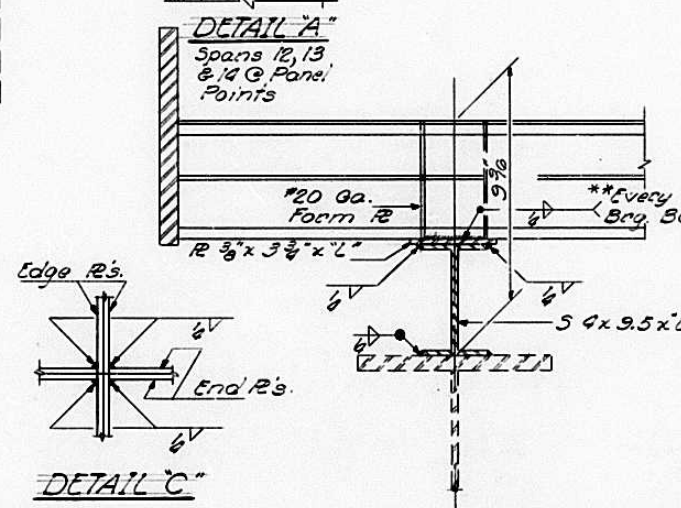
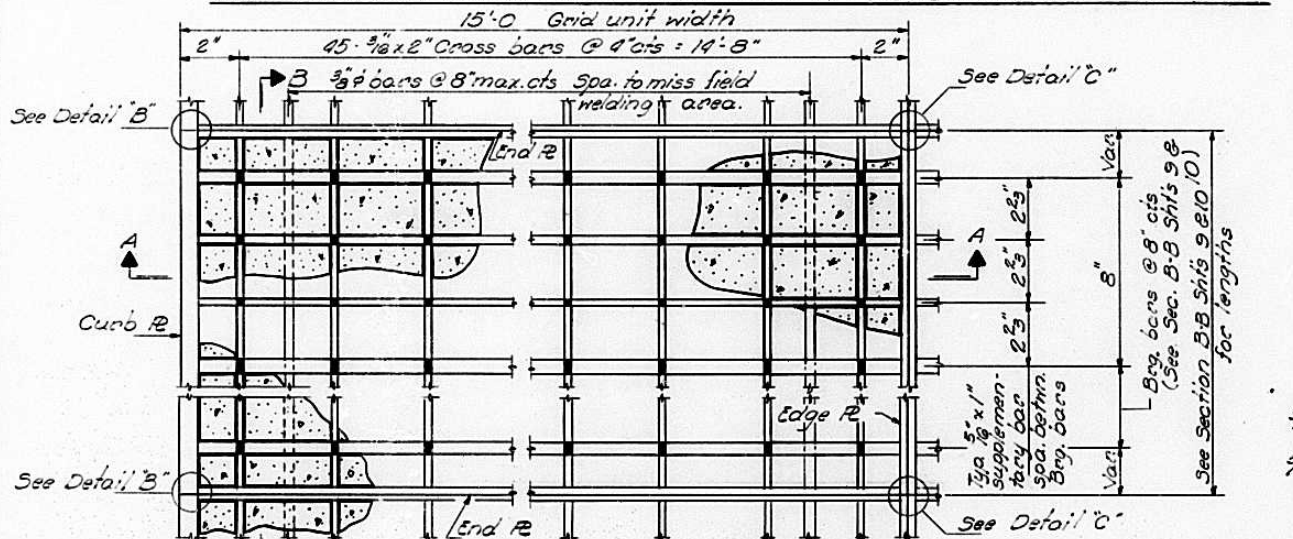
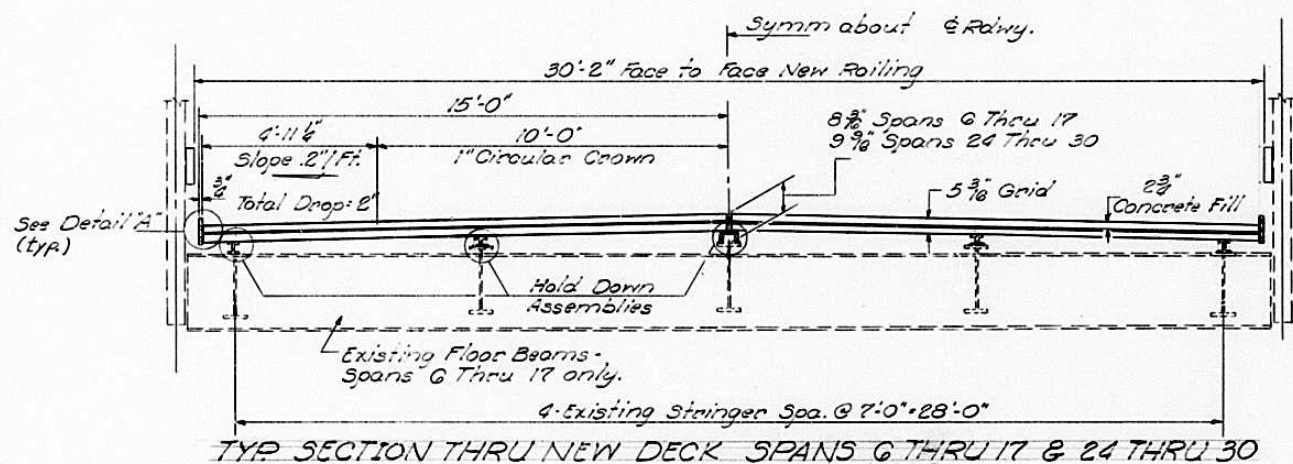
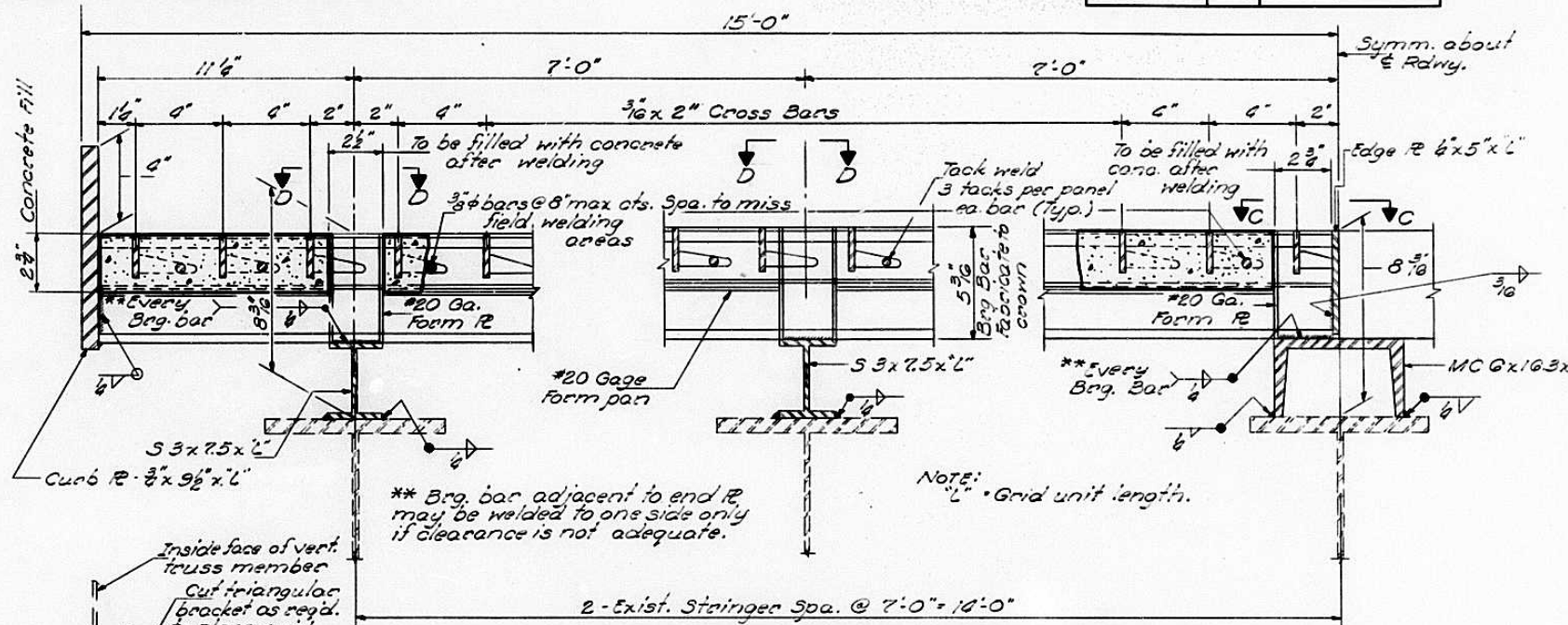
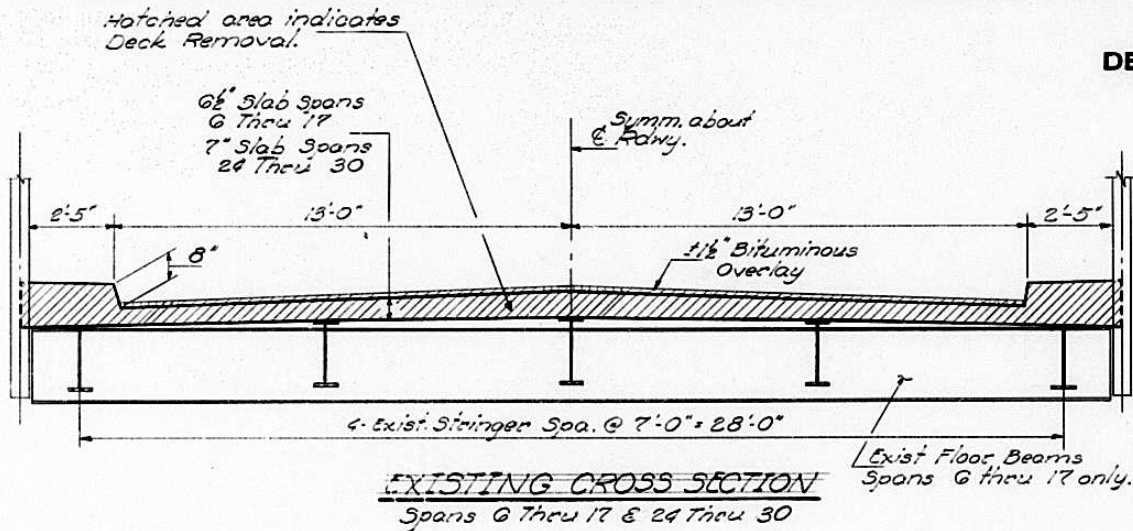
DESIGNED	<i>Shirley Colville</i>
CHECKED	R. F. KODLEY
DRAWN	J. SCHNEIDER
CHECKED	R. F. K.

EXAMINED	<i>W. E. Baumann</i>	Feb 4 1974
PASSED	<i>W. E. Baumann</i>	
APPROVED	<i>Henry R. Hanley</i>	
	DIRECTOR OF HIGHWAYS	

DRAIN DETAILS & GRID UNIT PLACEMENT SPANS 27 THRU 30
R.A. RT. 31 SEC. 15B-1-2
PEORIA-TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
F.A. 31	15B-2	PEORIA & TAZEWELL	31	22	17 SHEETS
F.R. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

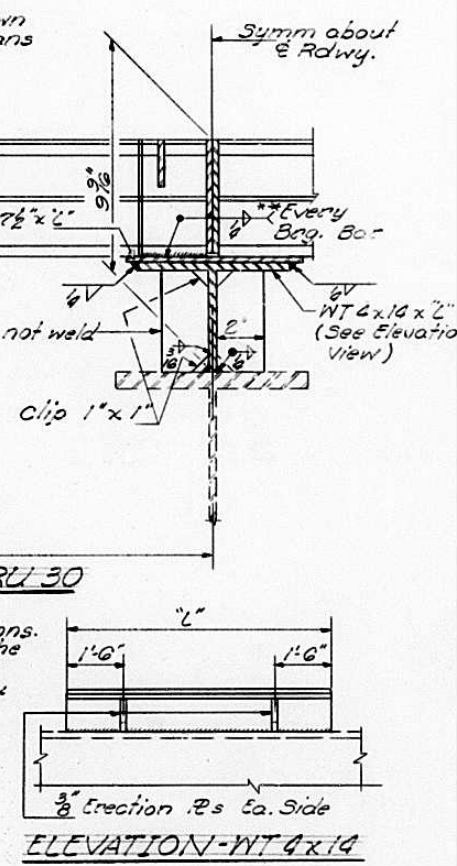


SECTION A-A - SPANS 6 THRU 17

NOTES:
See Sections B-B for 'L' dimensions
Grid units to be fabricated to the crown shown in 'Typ. Section Thru New Deck - Spans 6 Thru 17 & 24 Thru 30.'

SECTION A-A SPANS 24 THRU 30

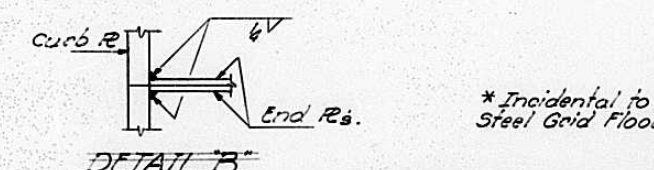
NOTES:
See Sections B-B for 'L' dimensions.
Grid units to be fabricated to the crown shown in 'Typ. Section Thru New Deck Spans 6 Thru 17 & 24 Thru 30.'
Details not shown are same as Section A-A - Spans 6 Thru 17.



GRID DETAILS
SPANS 6 THRU 17 & 24 THRU 30
F.A. RT. 31 SEC. 15B-1-2
PEORIA-TAZEWELL COUNTIES

DESIGNED *Paul Schiltner*
CHECKED R. F. RODKEY
DRAWN J. SCHNELLER
CHECKED R. F. R.

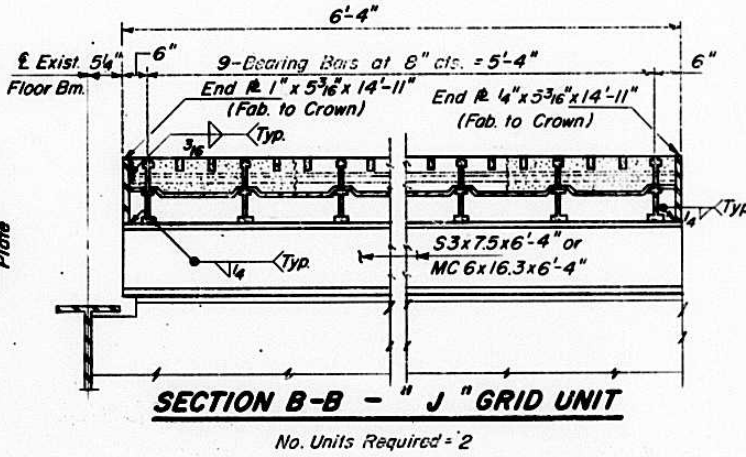
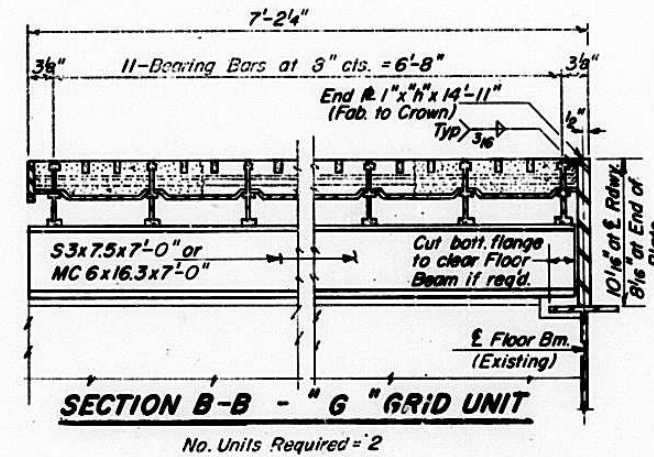
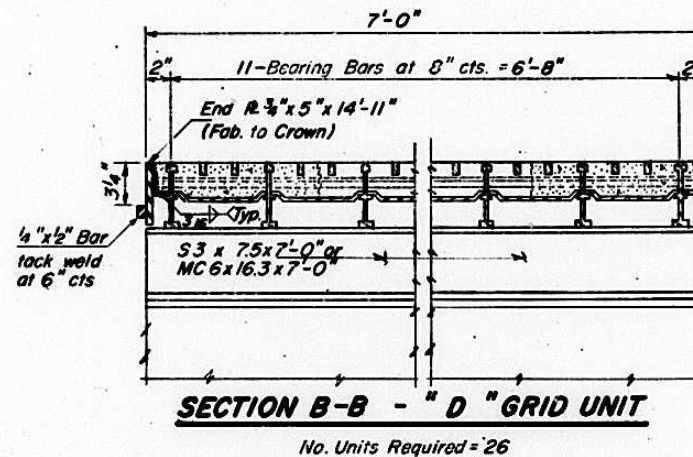
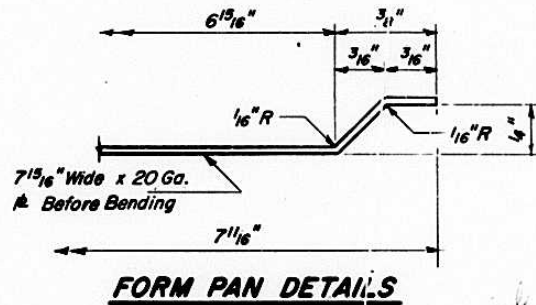
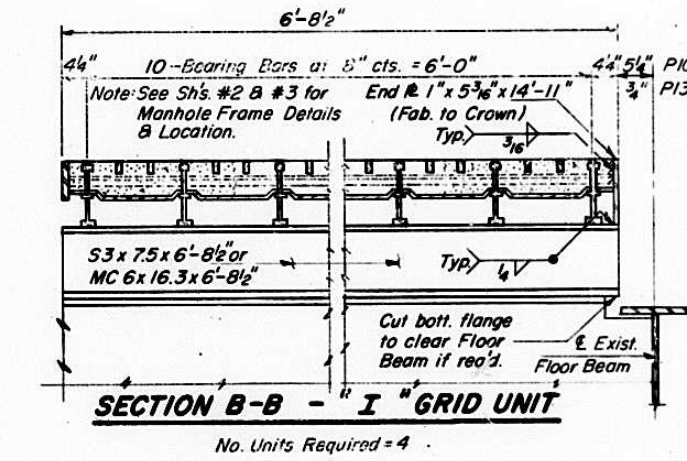
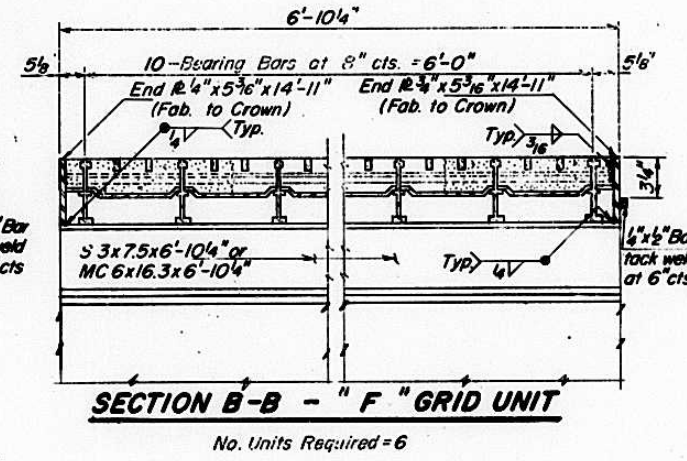
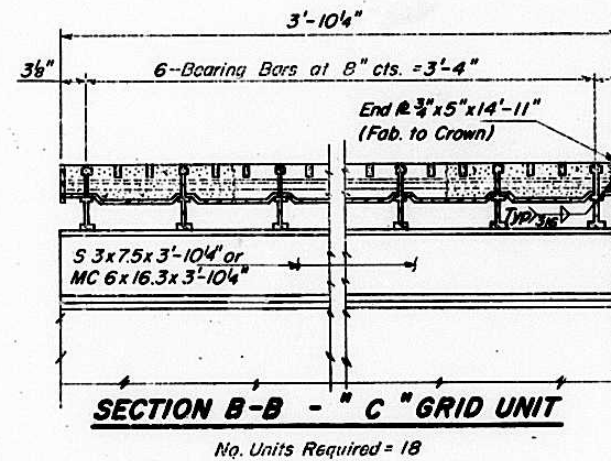
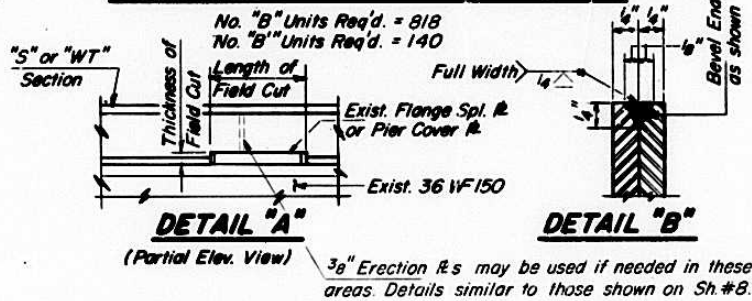
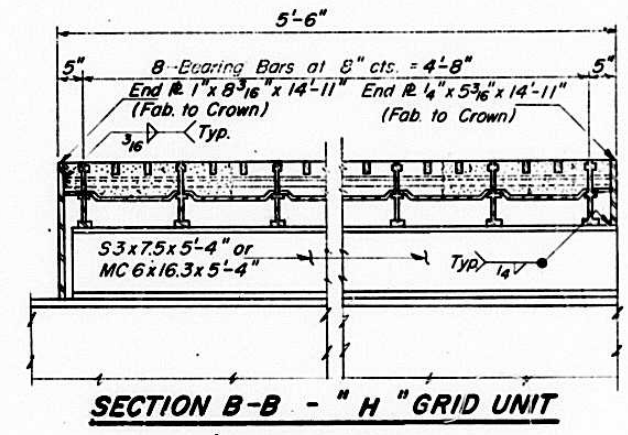
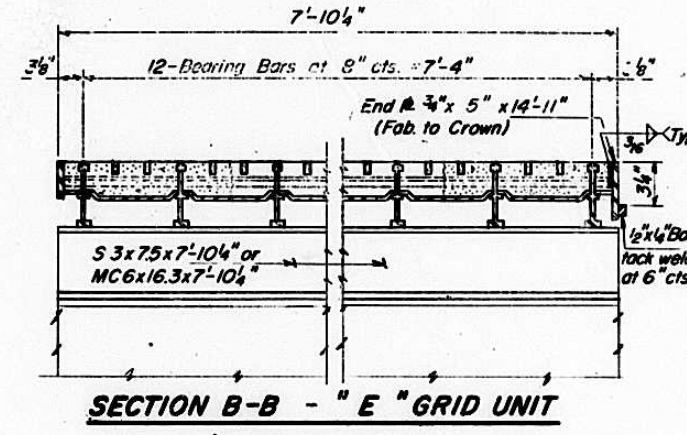
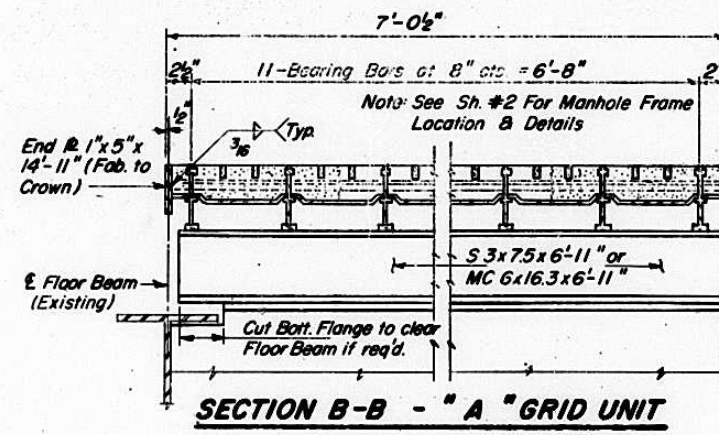
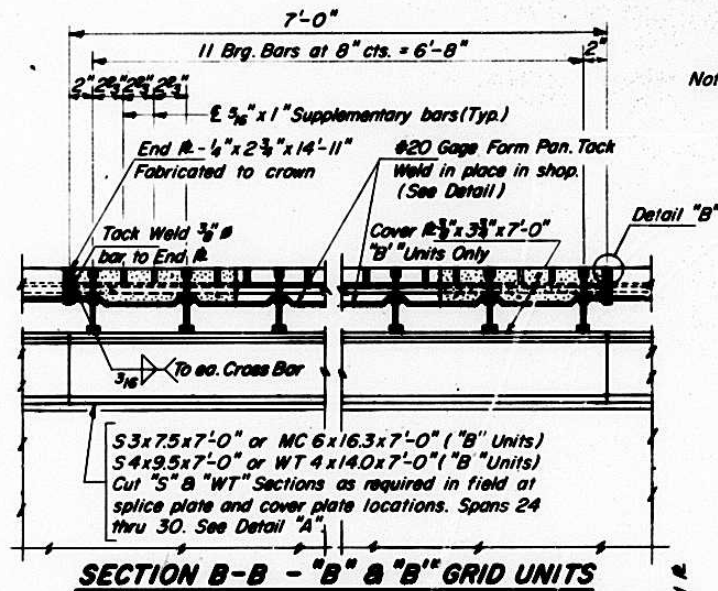
EXAMINED *W. Baumann*
PASSED *W. Baumann*
APPROVED *W. Baumann*
DIRECTOR OF HIGHWAYS



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
F.A. RT. 31	15B-I-2	PEORIA TAZEWELL	31	23	17 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	

Note: Details not referred to in "A" through "J" Grid Units are the same as "B" through "B" Grid Units.



DESIGNED	<i>Paul Schultz</i>
CHECKED	R. F. RODKEY
DRAWN	P. Barnett
CHECKED	R. F. R.

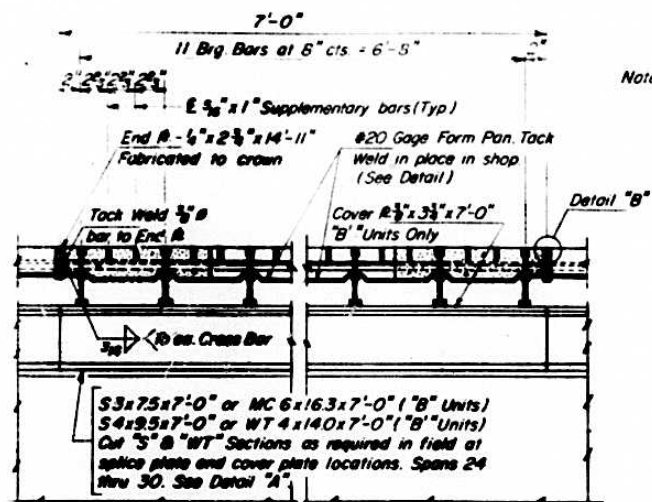
EXAMINED	<i>W. Baumann</i>	FEB 4 1974
APPROVED	<i>Harry R. Hanley</i>	DIRECTOR OF HIGHWAYS

**GRID UNIT DETAILS
"A" THRU "J"**
F.A. RT. 31 SEC. 15B-I-2
PEORIA - TAZEWELL COUNTIES

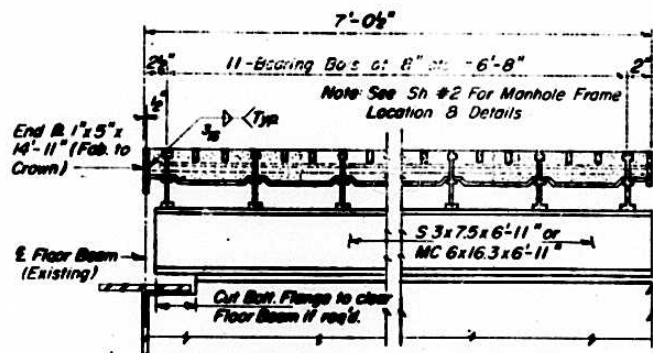
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	1587-2	PEORIA TACEWELL	31	23A	SHEET NO. 2-A
DATE	10/2/74				
SHEETS					

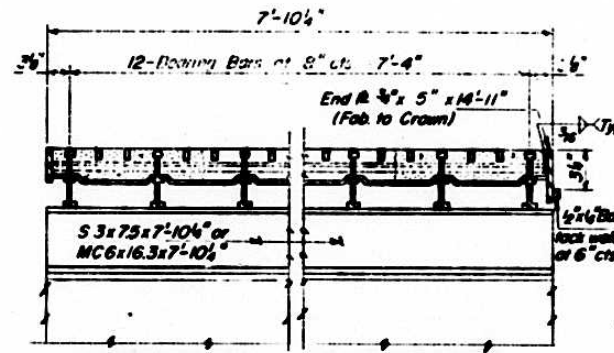
Note: Details not referred to in "A" through "J" Grid Units are the same as "B" through "B" Grid Units.



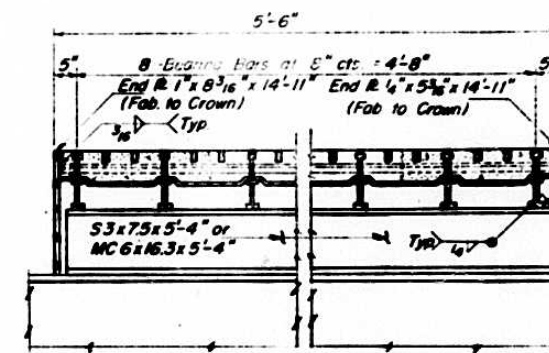
SECTION B-B - "B" THROUGH "B" GRID UNITS



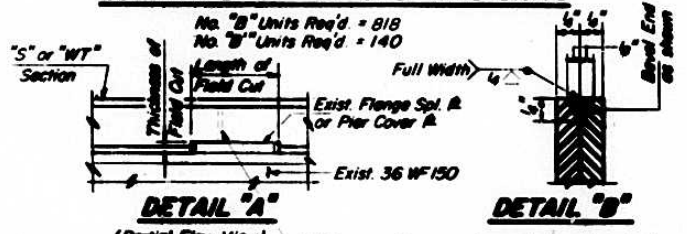
SECTION B-B - "A" GRID UNIT



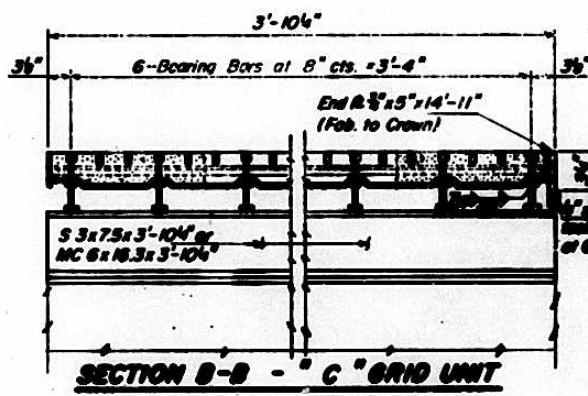
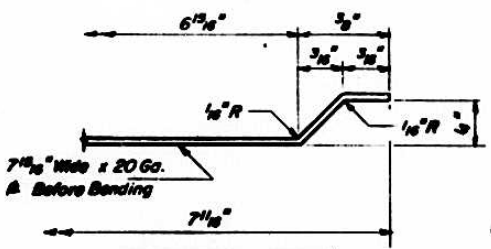
SECTION B-B - "E" GRID UNIT



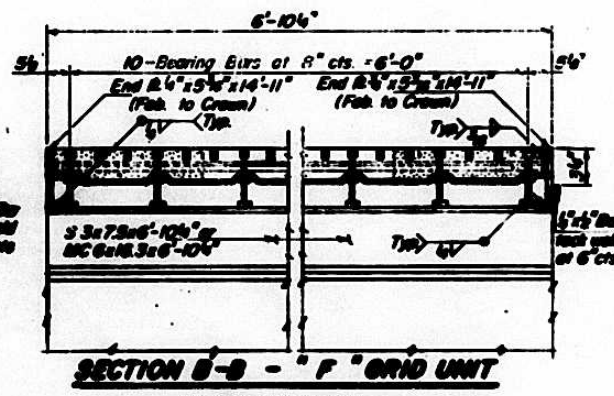
SECTION B-B - "H" GRID UNIT



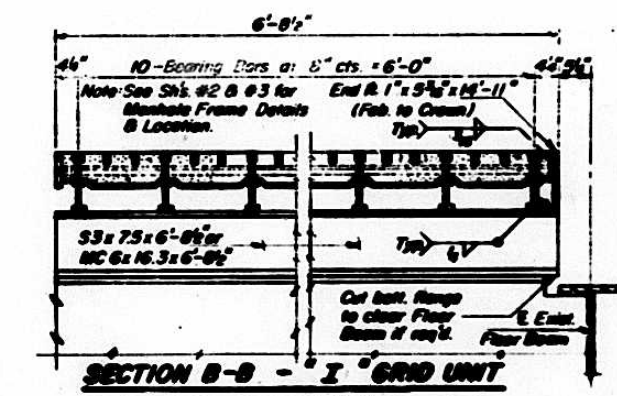
3/8" Erecton Rs. may be used if needed in these areas. Details similar to those shown on Sh. #8.



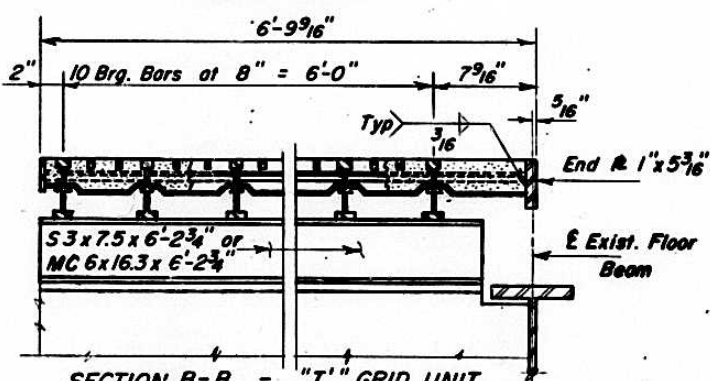
SECTION B-B - "C" GRID UNIT



SECTION B-B - "F" GRID UNIT

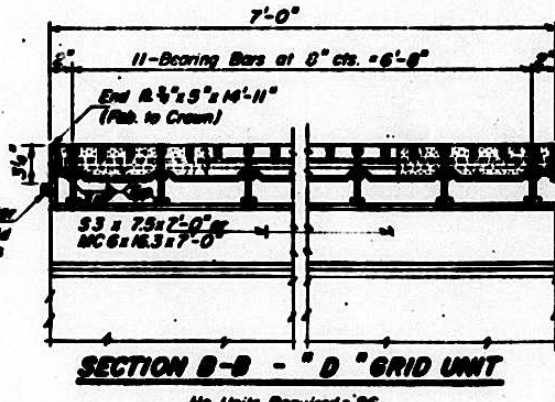


SECTION B-B - "I" GRID UNIT



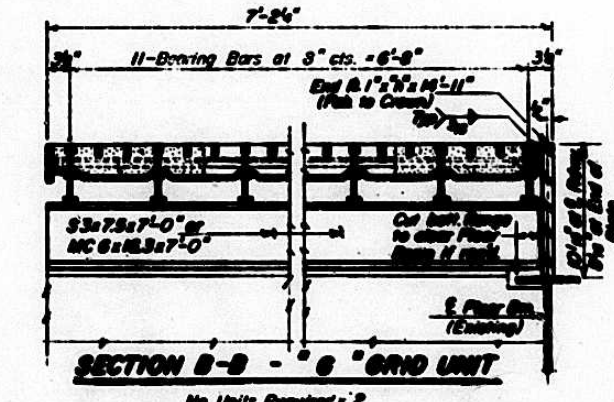
SECTION B-B - "I" GRID UNIT

No. Units Required = 2



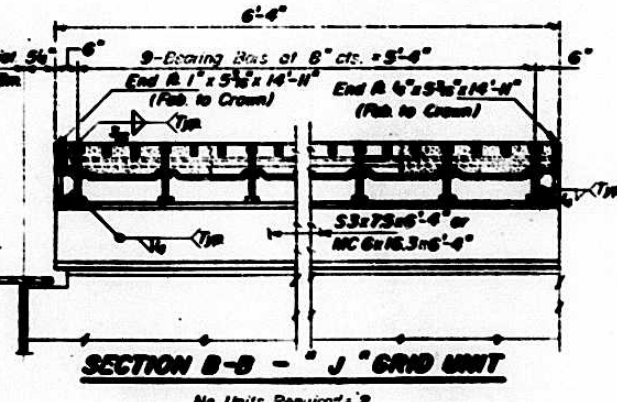
SECTION B-B - "D" GRID UNIT

No. Units Required = 26



SECTION B-B - "G" GRID UNIT

No. Units Required = 2



SECTION B-B - "J" GRID UNIT

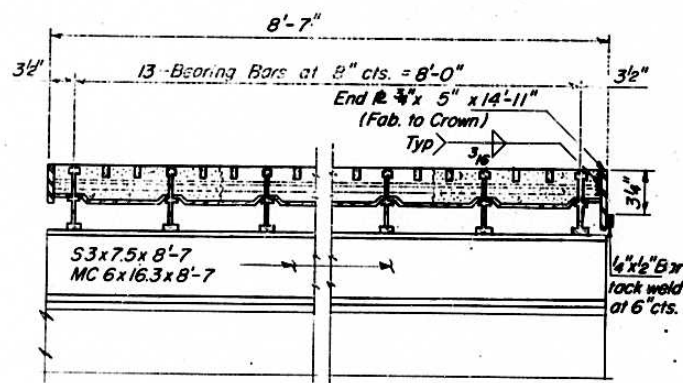
No. Units Required = 2

DESIGNED <i>Ch. Chulka</i>	EXAMINED <i>...</i>
CHECKED <i>R. F. K...</i>	PASSED <i>...</i>
DRAWN <i>P. B...</i>	APPROVED <i>...</i>
CHECKED <i>F</i>	DIRECTOR OF HIGHWAYS

AS REVISED 5-24-74 DLC
GRID UNIT DETAILS
"A" THRU "J"
PART 31 SEC 158-1-2
PEORIA-TACEWELL COUNTIES

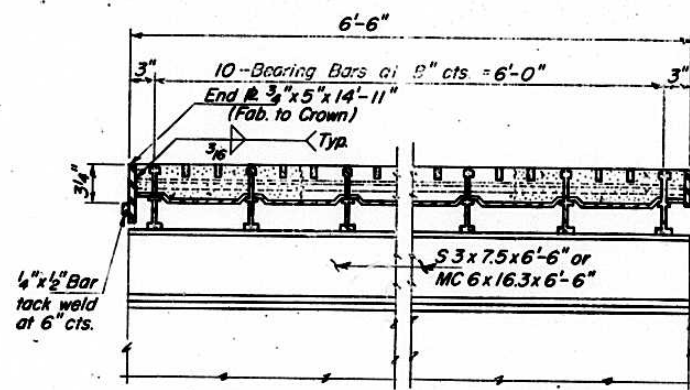
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. I. A. 31	SECTION 15B-I-2	COUNTY PEORIA & TAZEWELL	TOTAL SHEETS 31	SHEET NO. 24	SHEET NO. 10 17 SHEETS
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



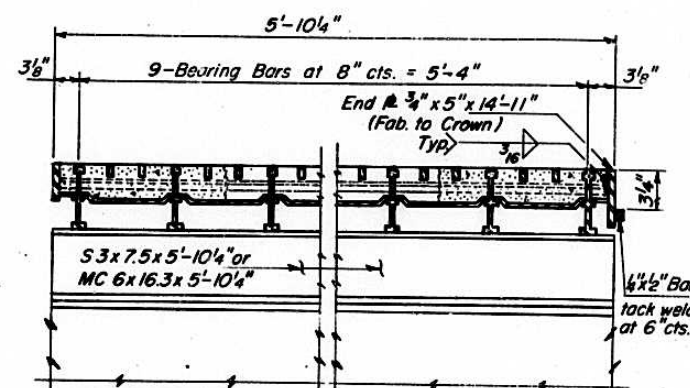
SECTION B-B - "K" GRID UNIT

No. Units Required = 4



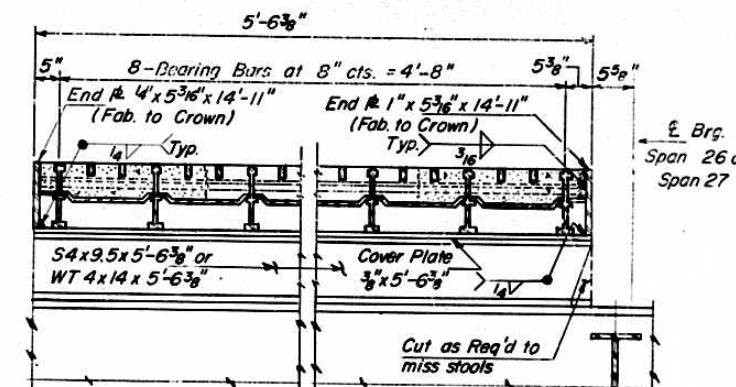
SECTION B-B - "N" GRID UNIT

No. Units Required = 4



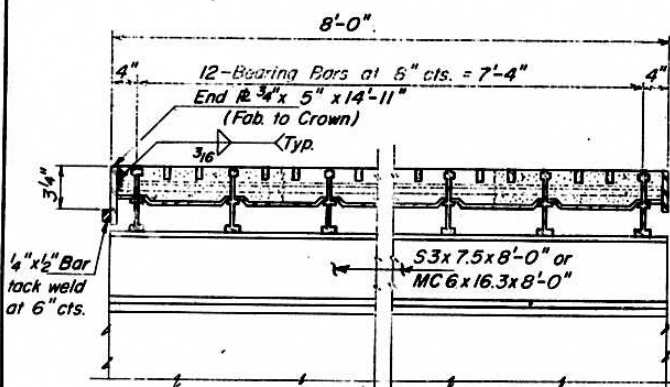
SECTION B-B - "O" GRID UNIT

No. Units Required = 2



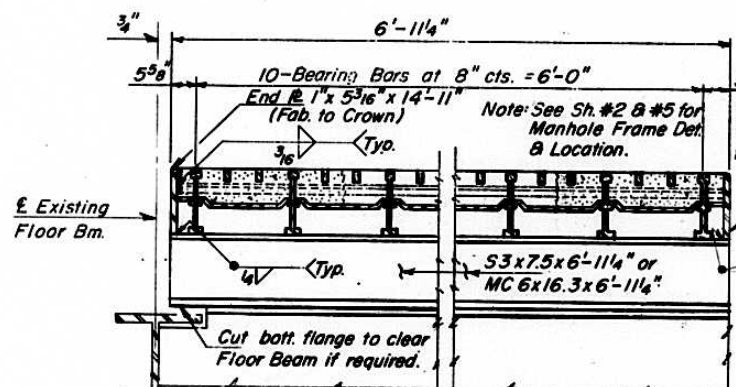
SECTION B-B - "X" GRID UNIT

No. Units Required = 4



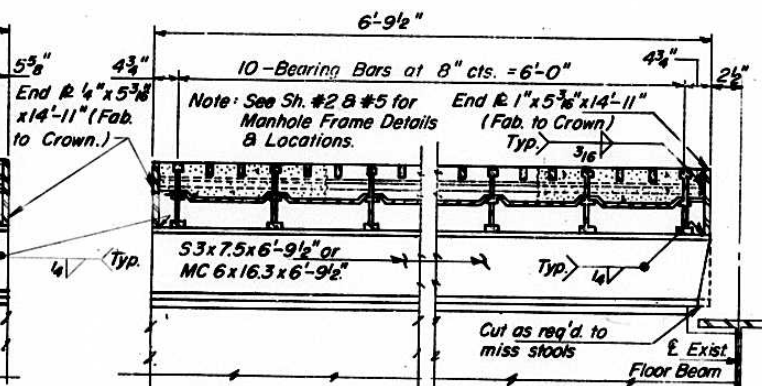
SECTION B-B - "L" GRID UNIT

No. Units Required = 26



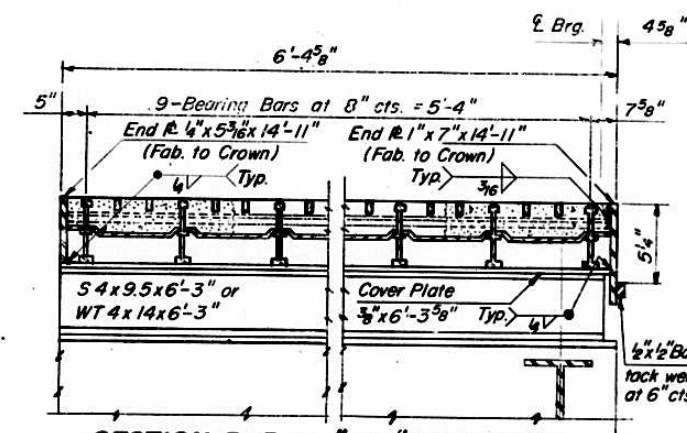
SECTION B-B - "O" GRID UNIT

No. Units Required = 2



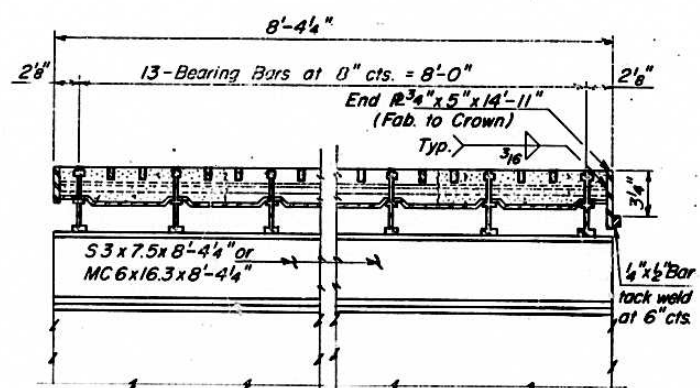
SECTION B-B - "R" GRID UNIT

No. Units Required = 2



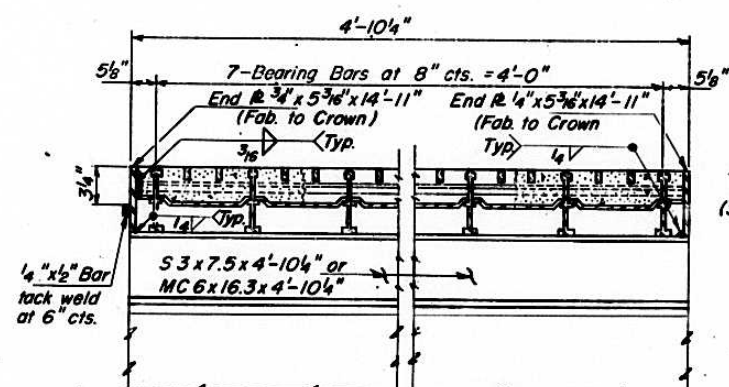
SECTION B-B - "Y" GRID UNIT

No. Units Required = 4



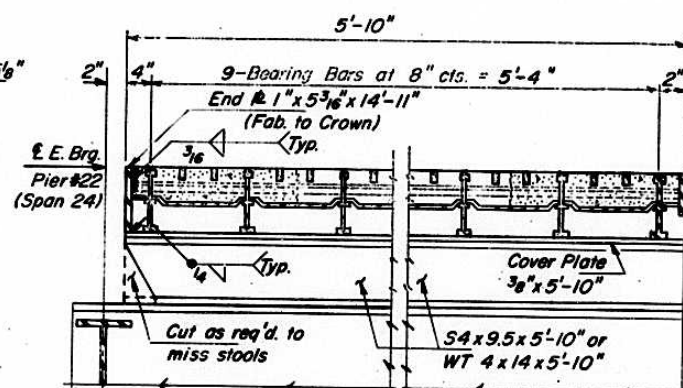
SECTION B-B - "M" GRID UNIT

No. Units Required = 24



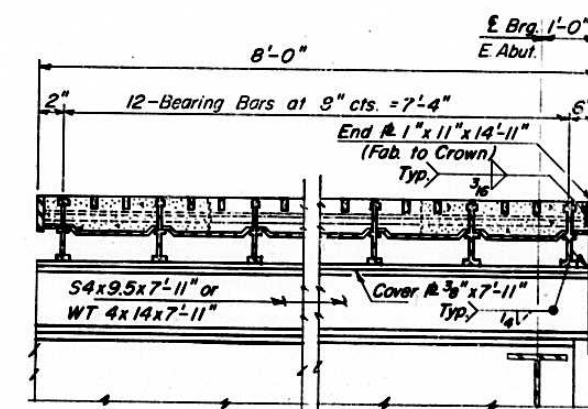
SECTION B-B - "P" GRID UNIT

No. Units Required = 2



SECTION B-B - "W" GRID UNIT

No. Units Required = 2



SECTION B-B - "Z" GRID UNIT

No. Units Required = 2

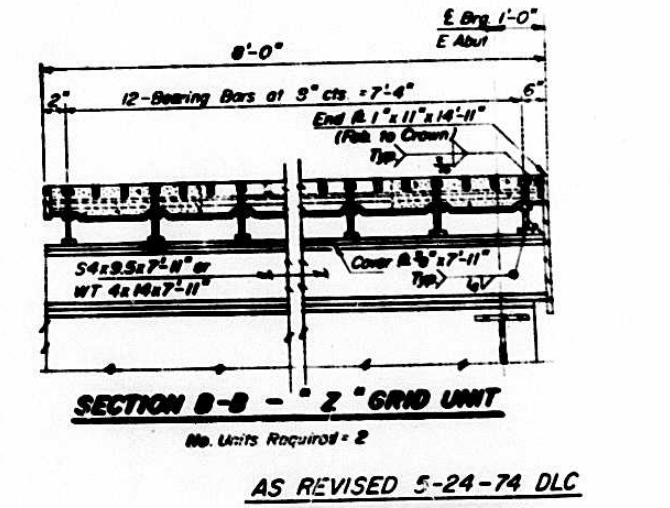
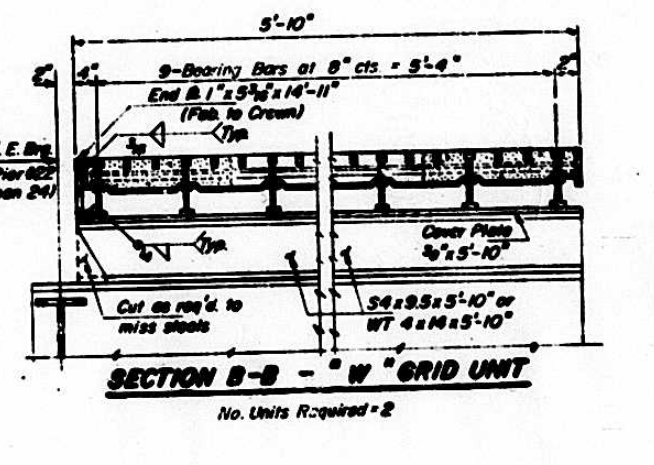
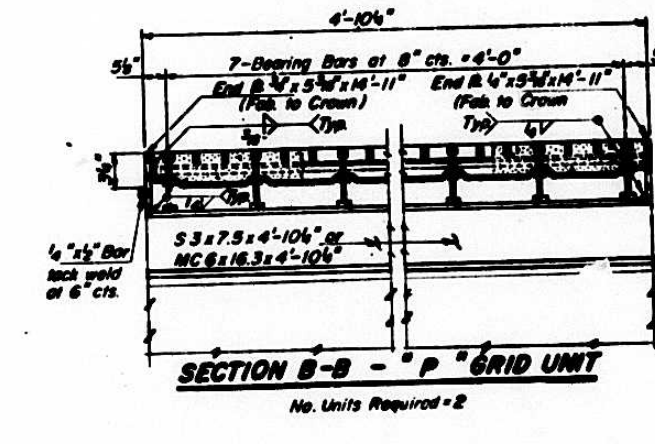
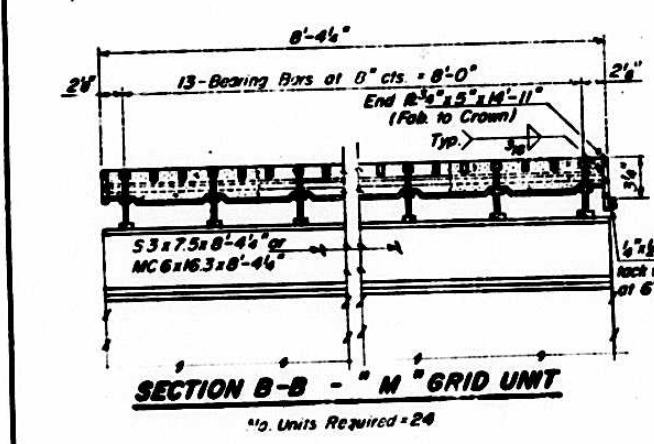
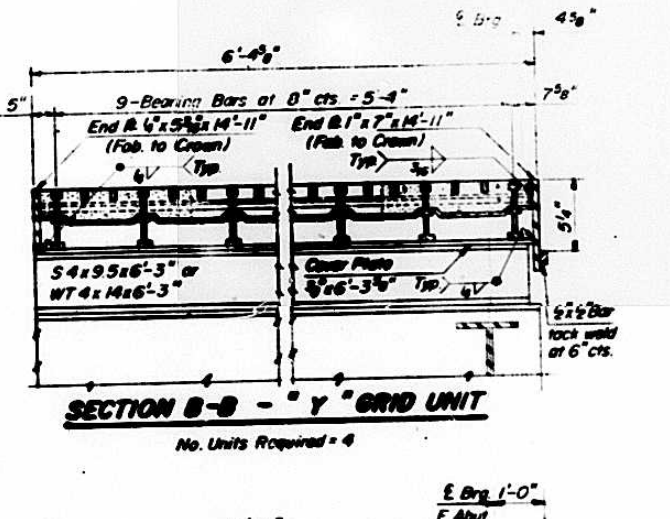
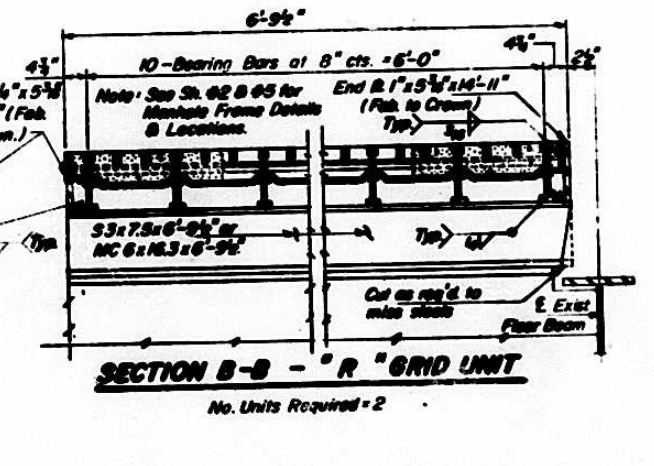
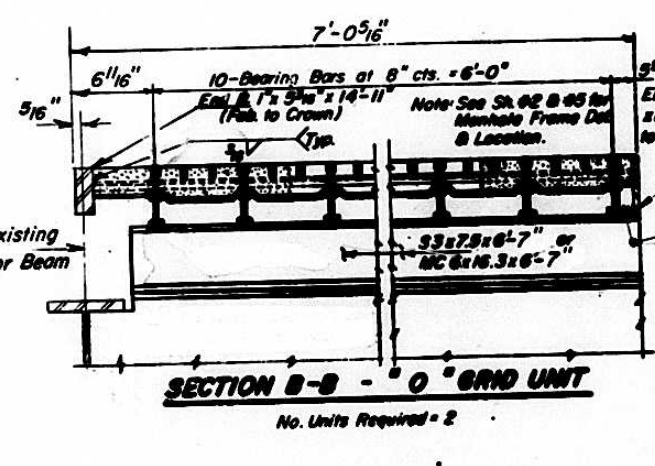
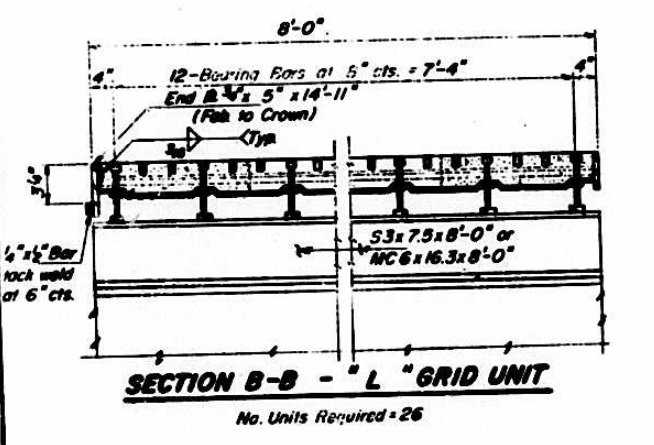
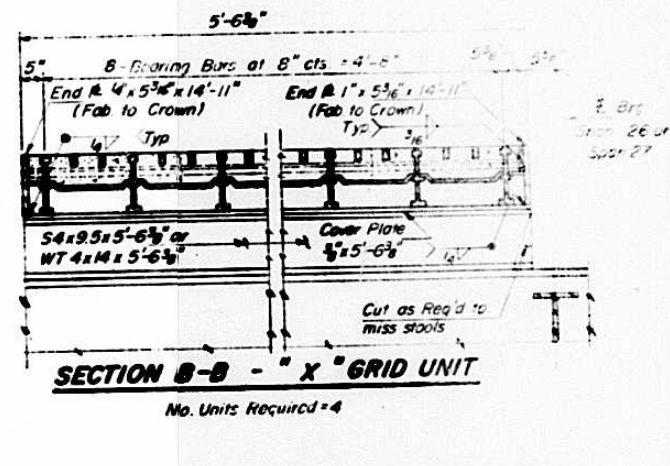
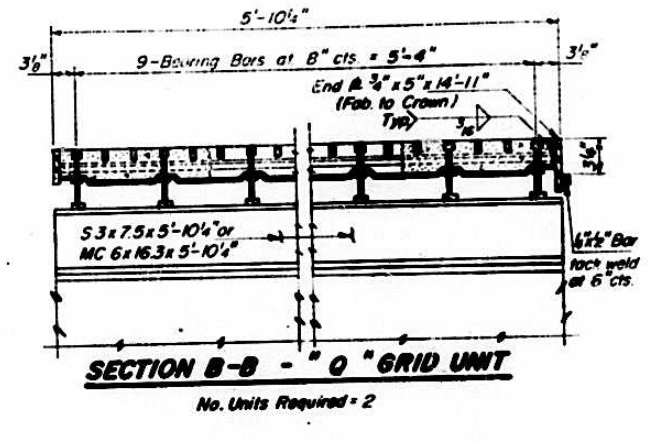
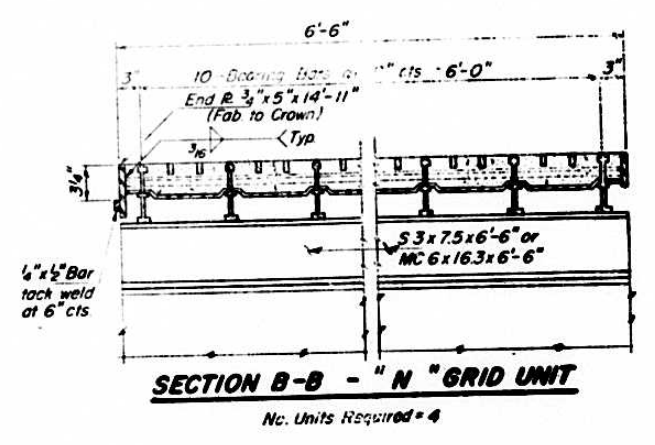
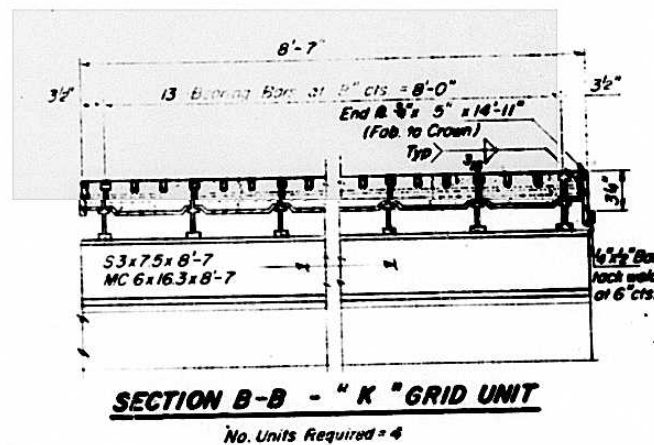
DESIGNED	<i>Steve Schuller</i>
CHECKED	R. F. RODKEY
DRAWN	P. Barnett
CHECKED	R. F. R.

EXAMINED	<i>W. E. Baumann</i>
PASSED	<i>W. E. Baumann</i>
APPROVED	<i>Harry R. Hanley</i>
	DIRECTOR OF HIGHWAYS

GRID UNIT DETAILS
"K" THRU "R" & "W" THRU "Z"
F.A. RT. 31 SEC. 15B-I-2
PEORIA-TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	PROJECT	SHEET NO.
3/1	MS-2	ROADWAY IMPROVEMENT	10A
DESIGNED BY		CHECKED BY	APPROVED BY
DRAWN BY		SCALE	

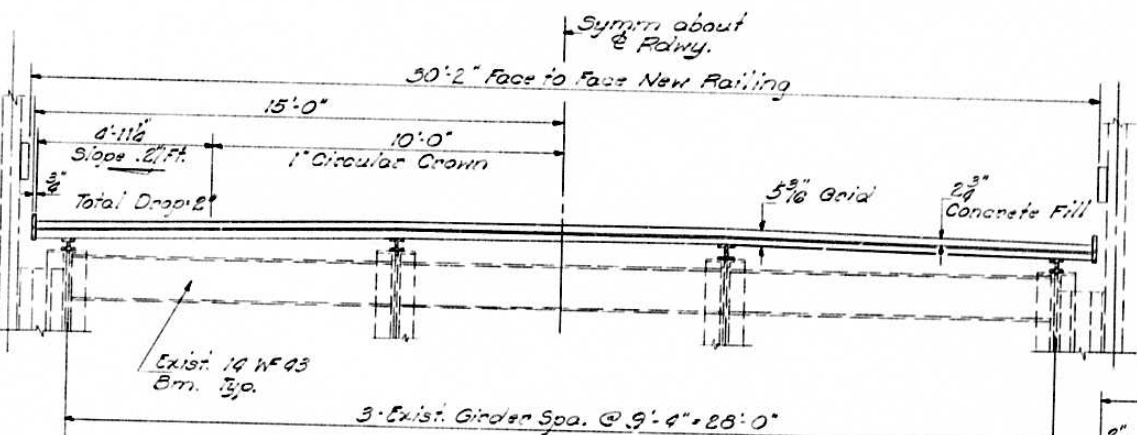
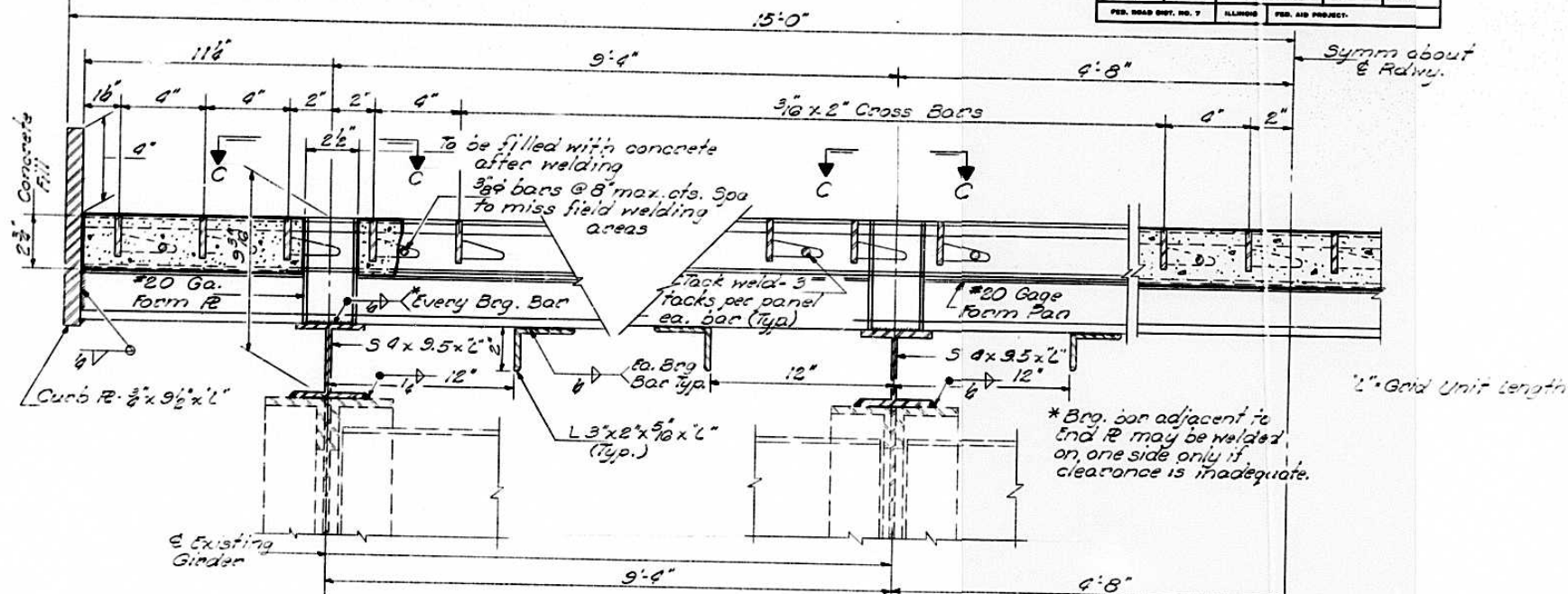
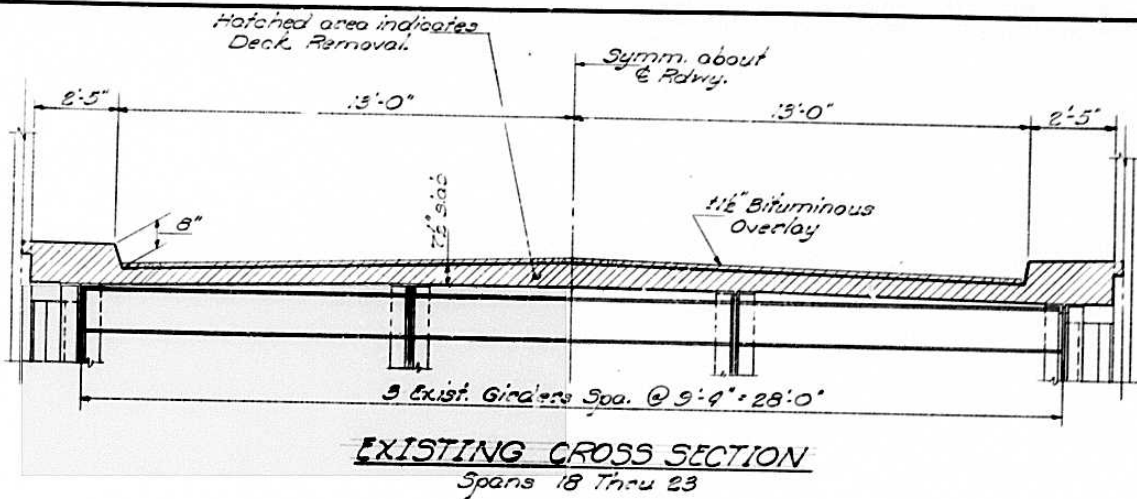


DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	

AS REVISED 5-24-74 DLC
GRID UNIT DETAILS
"K" THRU "R" & "W" THRU "Z"
F.A. RT. 31 SEC. 150-I-2
PEORIA-TAZEWELL COUNTIES

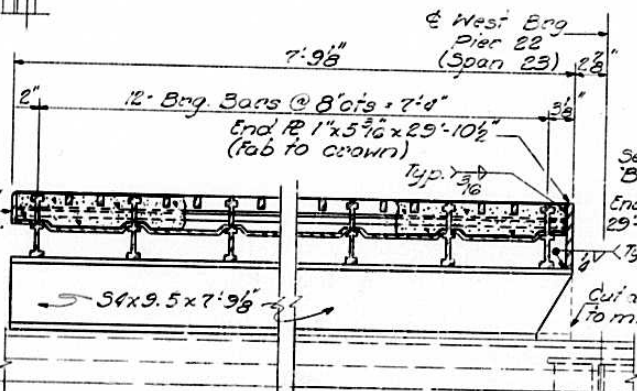
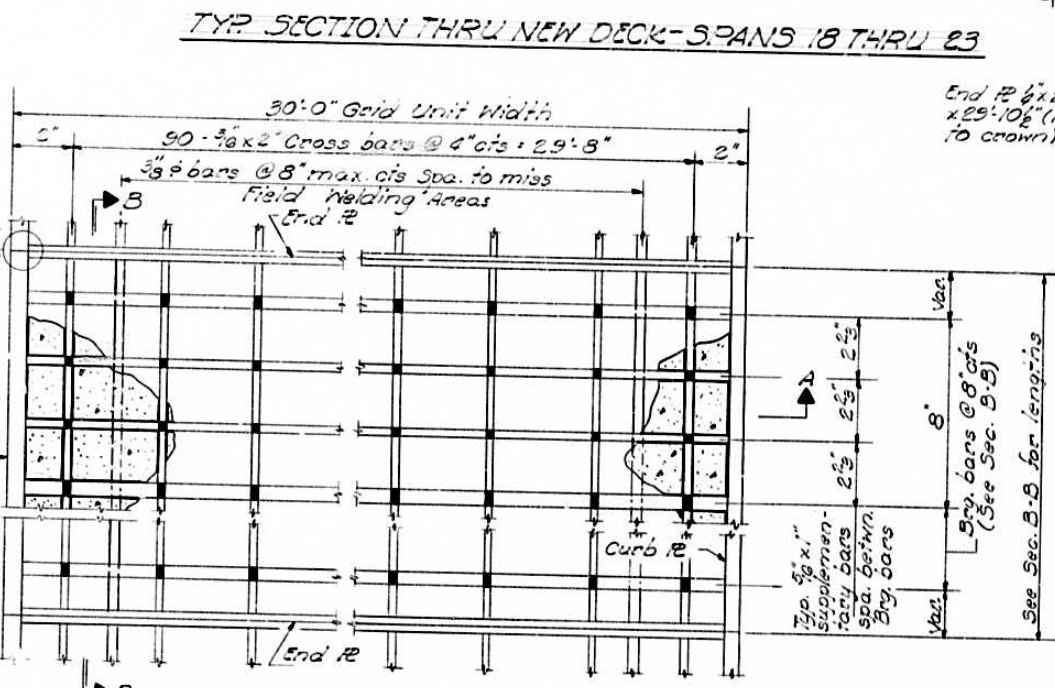
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	E. SURVEY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11
P.A. 31	15B-1-2	A. TORIA T. F. WELLS	31	25	17 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:			

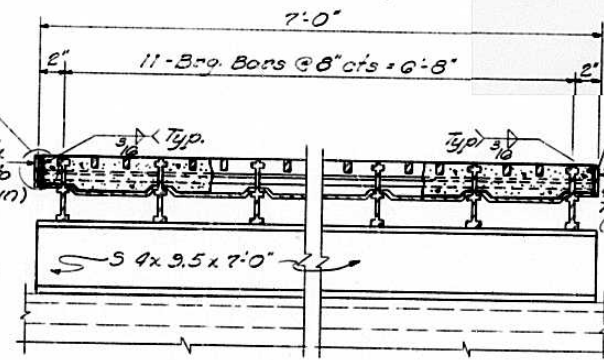


SECTION A-A-SPANS 18 THRU 23

NOTES:
See Sections B-B for "L" dimensions. Grid Units to be fabricated to fine crown shown in Typ. Section Thru New Deck-Spans 18 Thru 23.

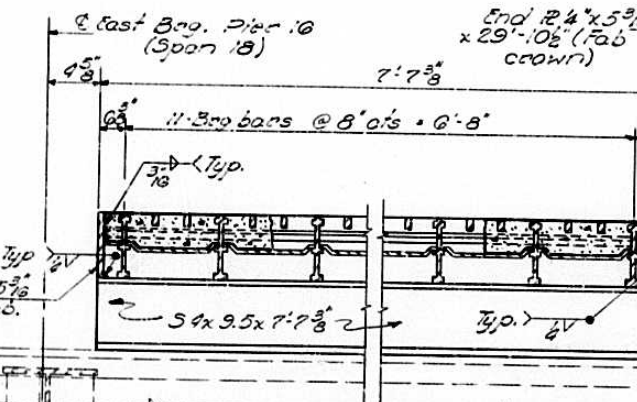


SECTION B-B-V GRID UNIT
No. Units Req'd = 1

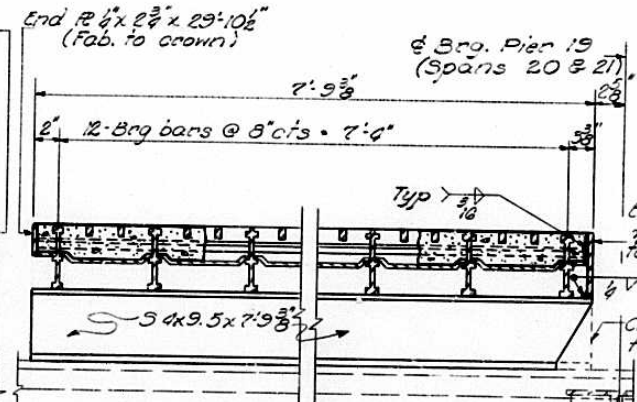


SECTION B-B-T GRID UNIT

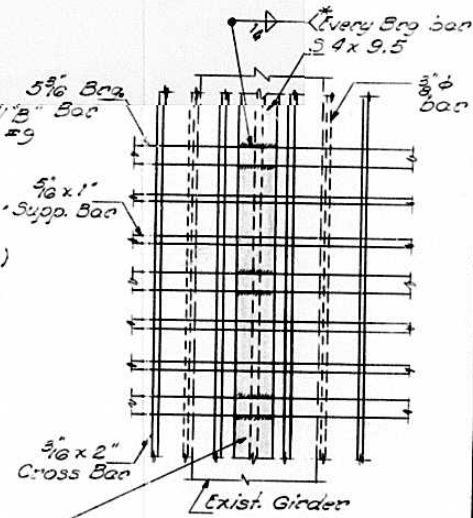
No. Units Req'd = 76
Note: "S" sections for "T" Grid units to be cut in field at spaces R & cover R locations as shown in Detail A.



SECTION B-B-S GRID UNIT
No. Units Req'd = 1

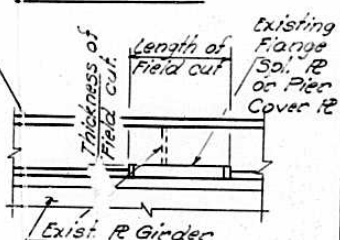


SECTION B-B-U GRID UNIT
No. Units Req'd = 2



VIEW C-C

Shaded area to be filled with concrete after welding. Incidental to Filled Steel Grid Floor.



DETAIL A

* Erection R's may be used if needed (Partial Elevation View) in these areas. Details similar to those shown on sht. #8.

GRID DETAILS
SPANS 18 THRU 23

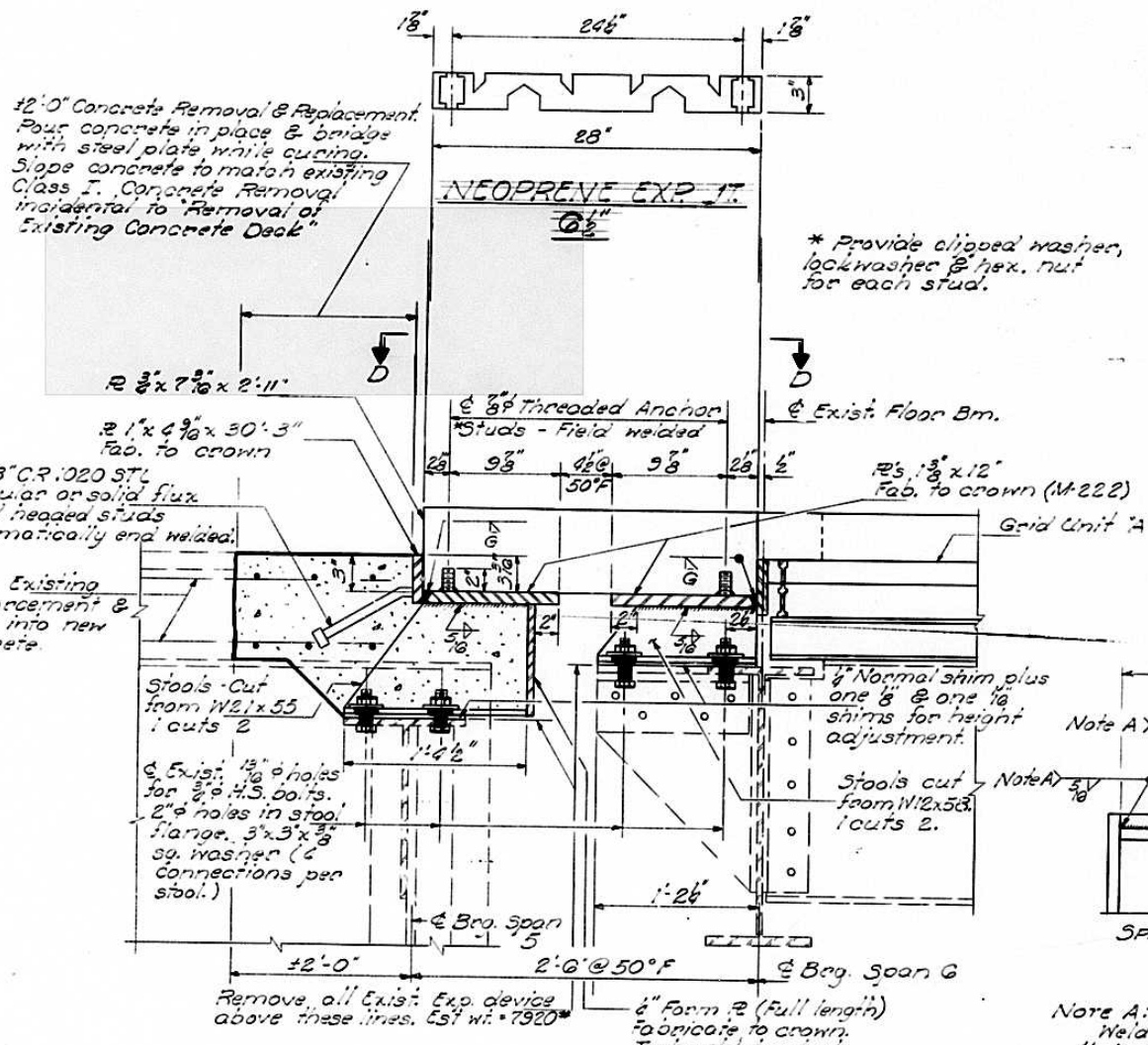
F.A. RT. 31 SEC. 15B-1-2
PEORIA-TAZEWELL COUNTIES

DESIGNED	Paul Chilton	EXAMINED	Feb 4 1974
CHECKED	R. F. ROUKEY	PASSED	W. B. B...
DRAWN	J. SCHNELLER	APPROVED	R. HANLEY
CHECKED	R. F. R.		DIRECTOR OF HIGHWAYS

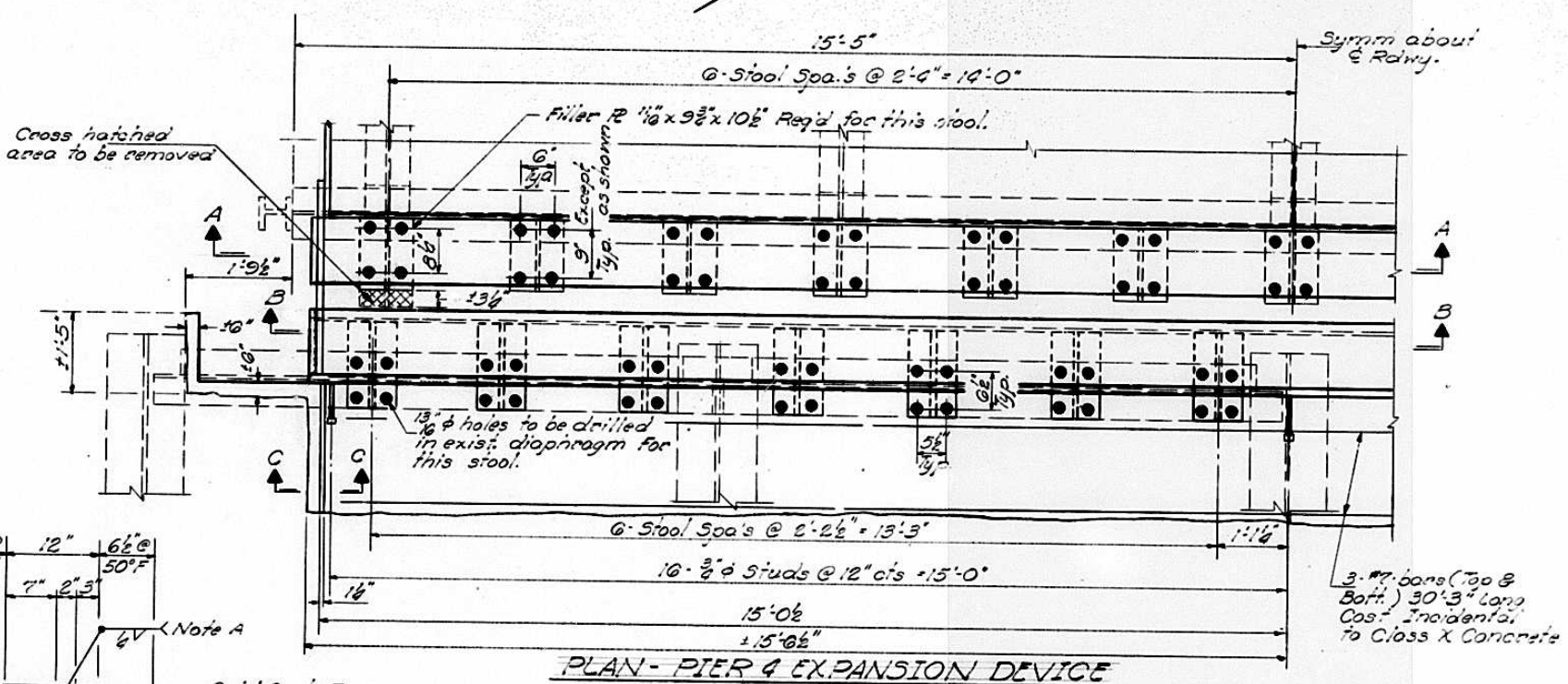
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A. 31	15B-1-2	PEORIA TAEWELL	31	26
P.C. ROAD DIST. NO. 7		ILLINOIS	P.C. AND PROJECT	

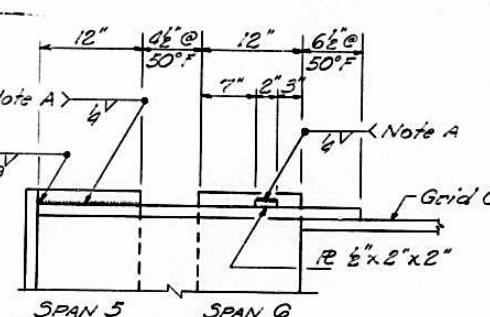
SHEET NO. 12
17 SHEETS



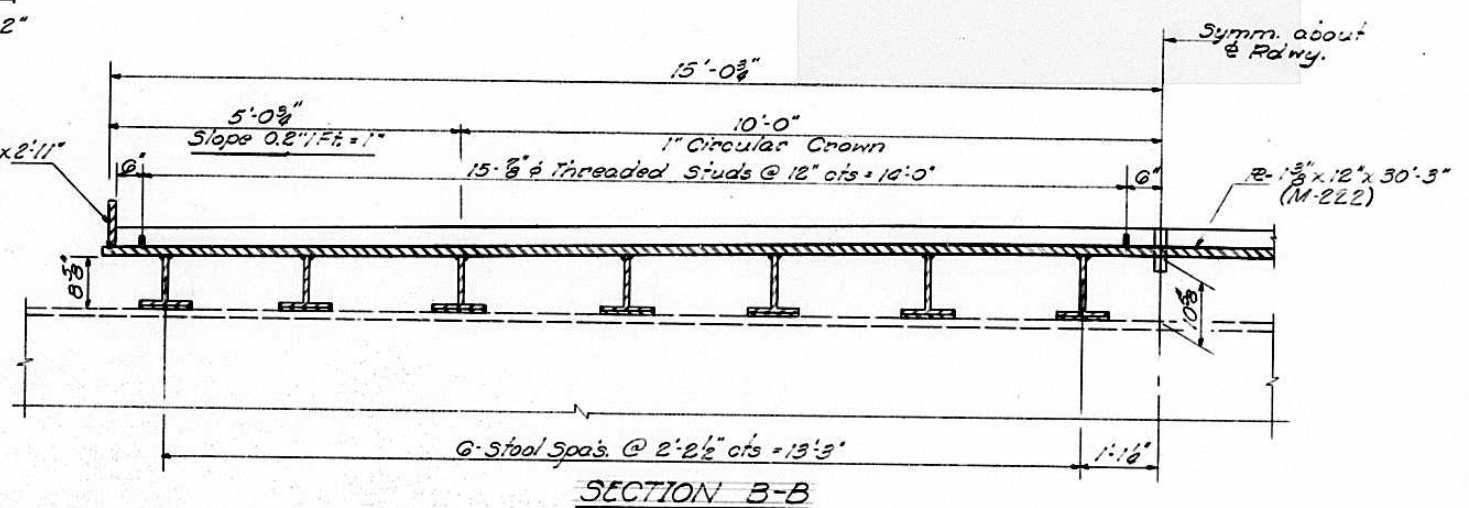
SECTION 1-1
(Pier 4)
(See Sht. #2)



PLAN - PIER 4 EXPANSION DEVICE



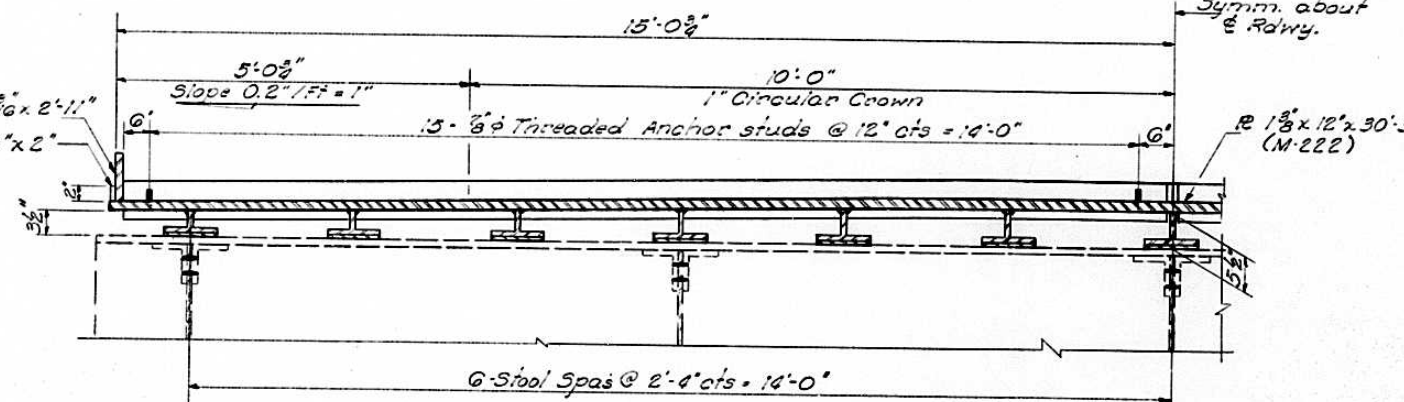
Note A: Weld, before Neoprene jt. is installed.



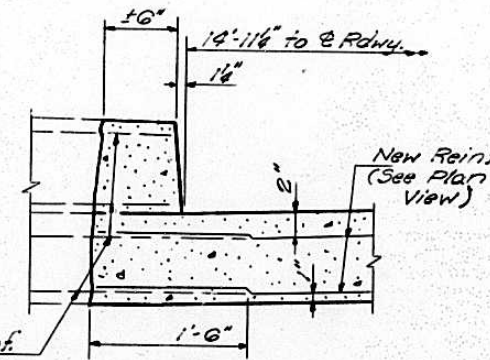
SECTION B-B

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Class X Concrete	Cu. Yds.	2.9



SECTION A-A



SECTION C-C

EXPANSION JOINT DETAILS
PIER 4
P.A. RT. 31 SEC. 15B-1-2
PEORIA-TAEWELL COUNTIES

DESIGNED *Gardner*
CHECKED R. F. ROONEY
DRAWN J. SCHNELLER
CHECKED R. F. K.

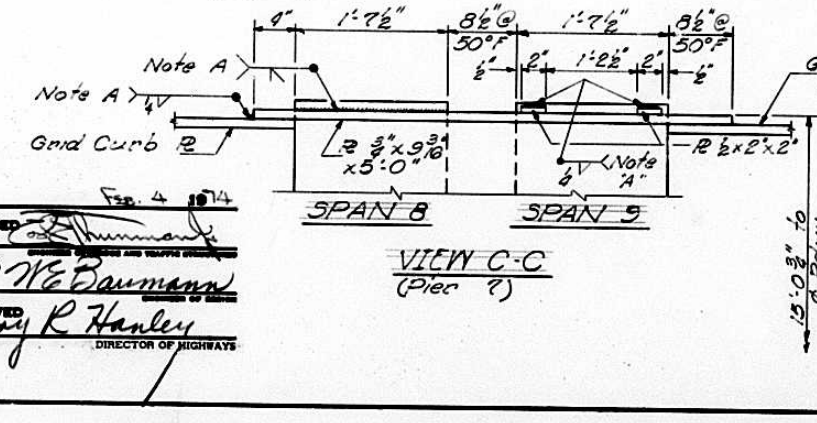
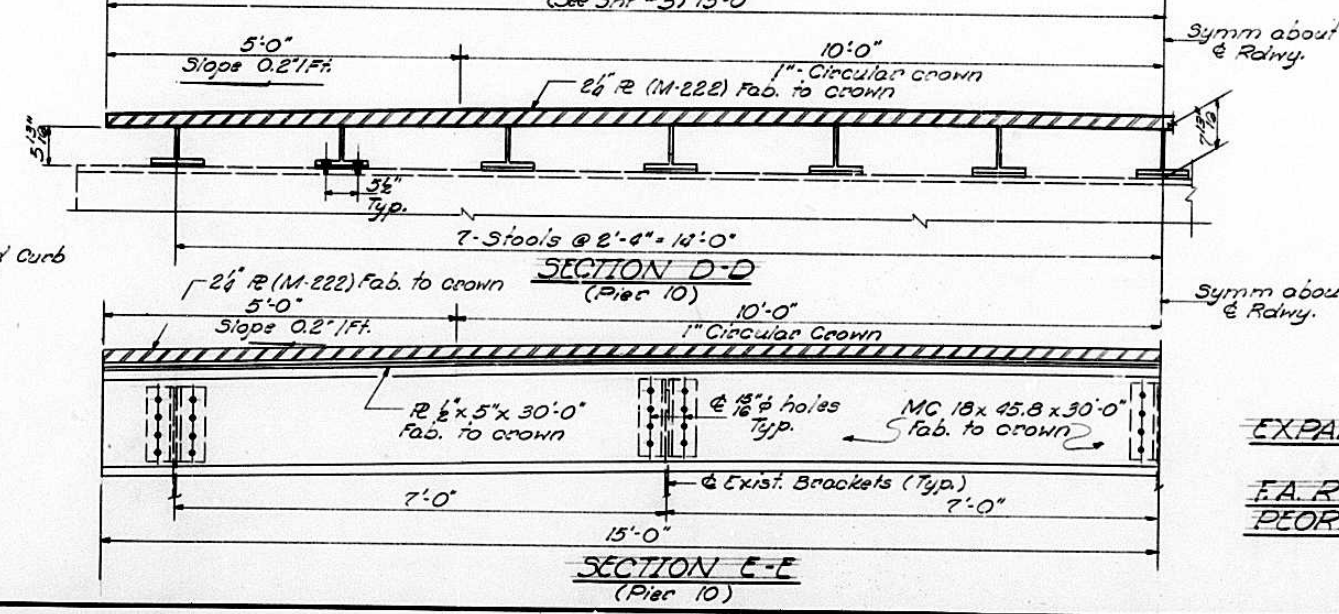
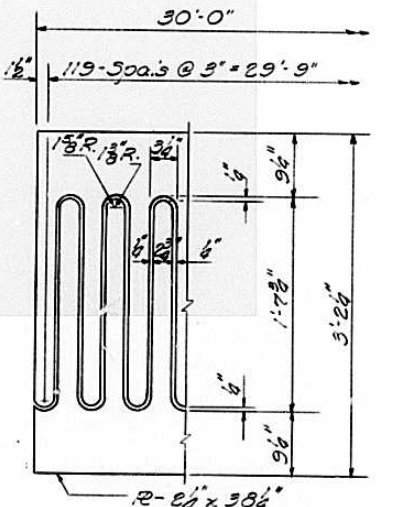
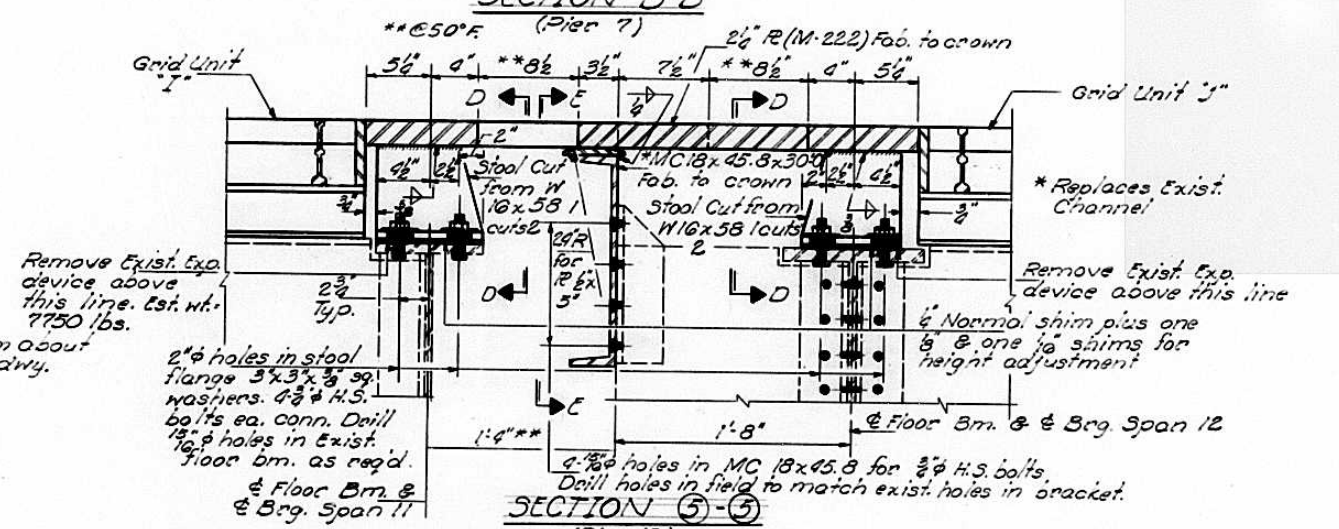
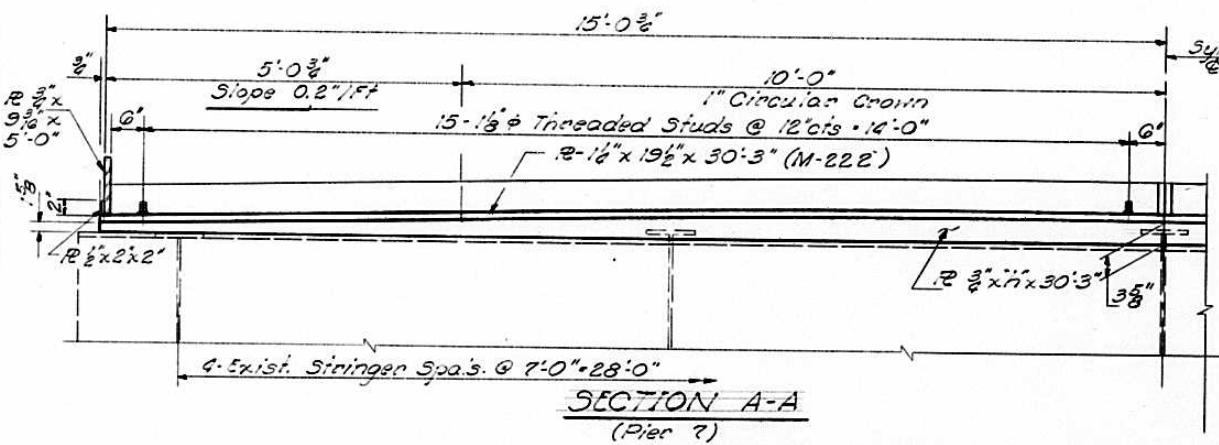
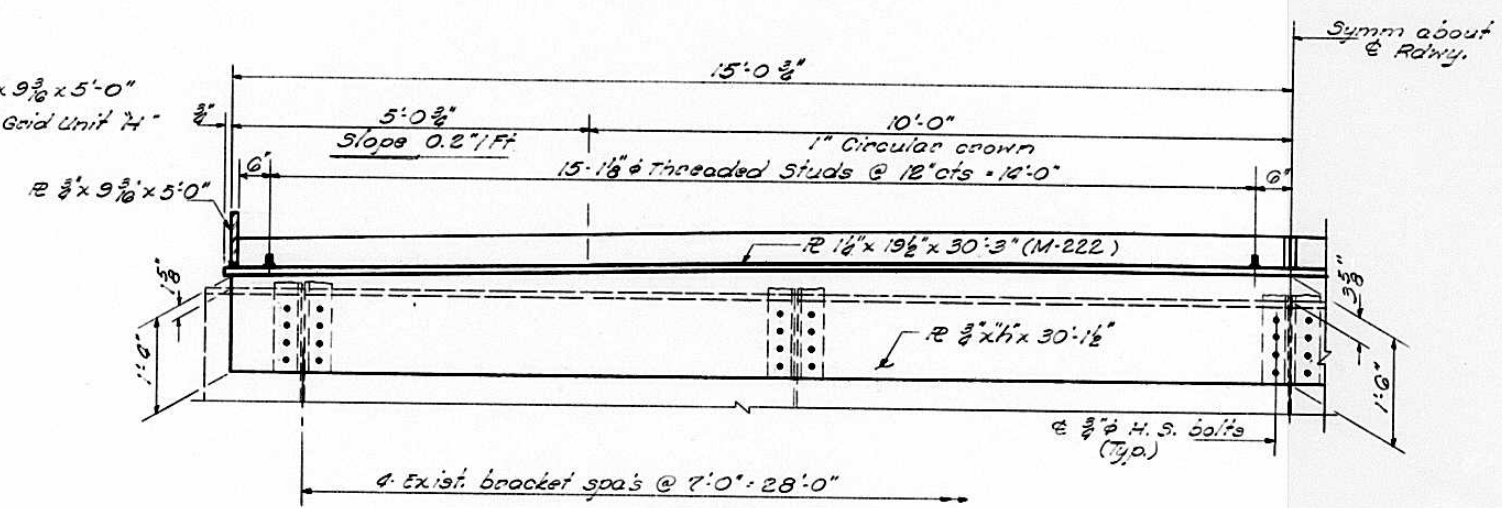
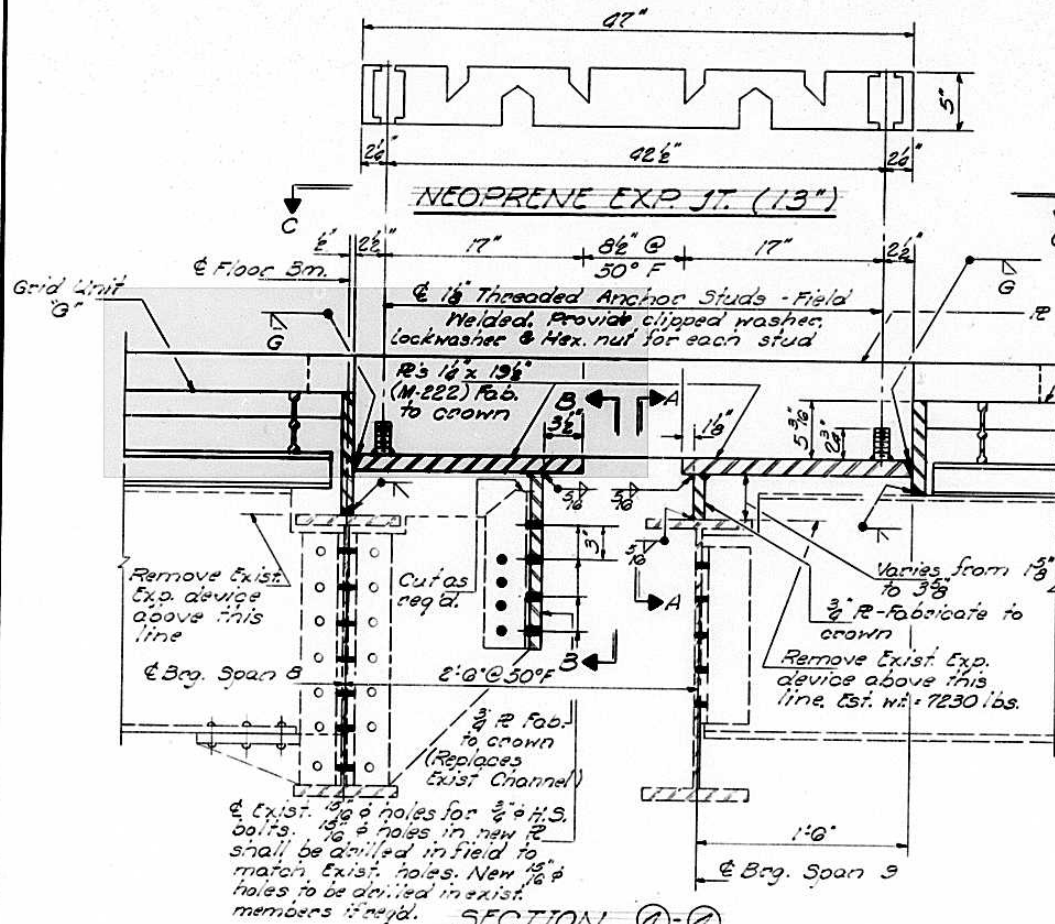
EXAMINED *McBaumann*
PASSED *McBaumann*
APPROVED *Harry R. Hanley*
DIRECTOR OF HIGHWAYS

Feb. 4, 1914

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A. 31	153-I-2	PEORIA & TAZEWELL	31	27
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 13
17 SHEETS

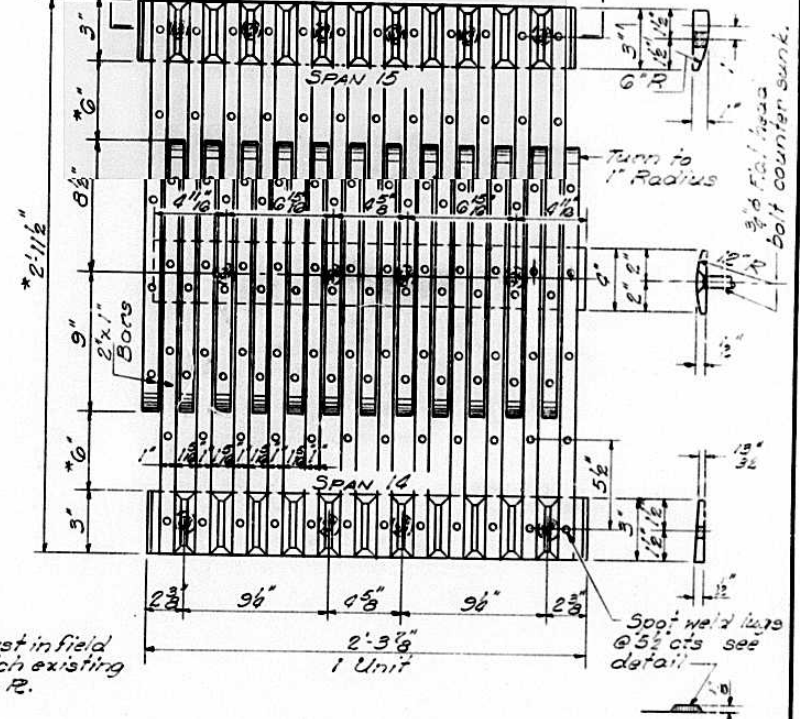
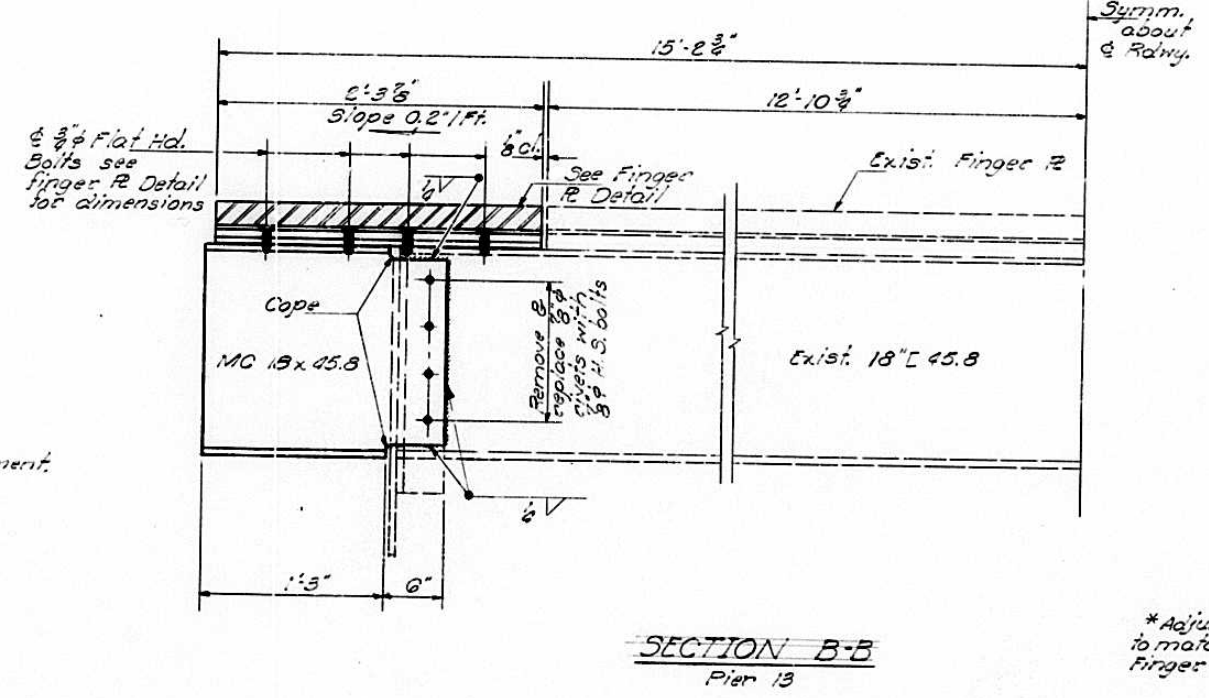
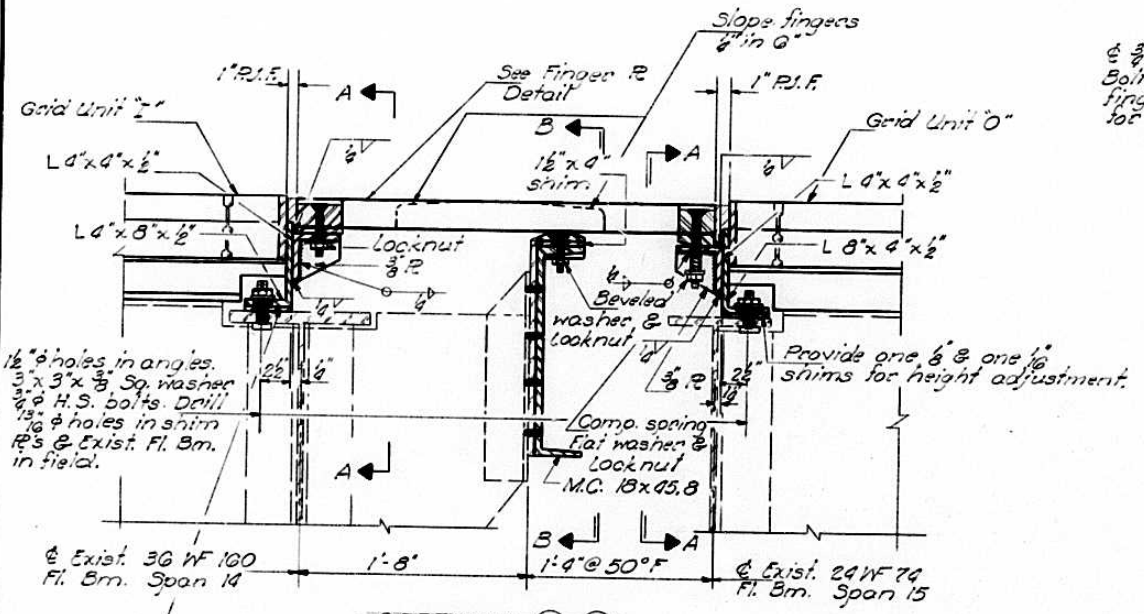
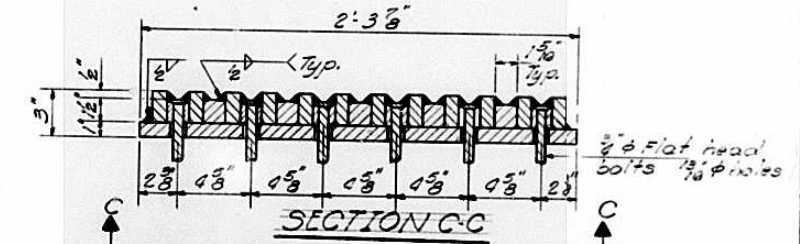
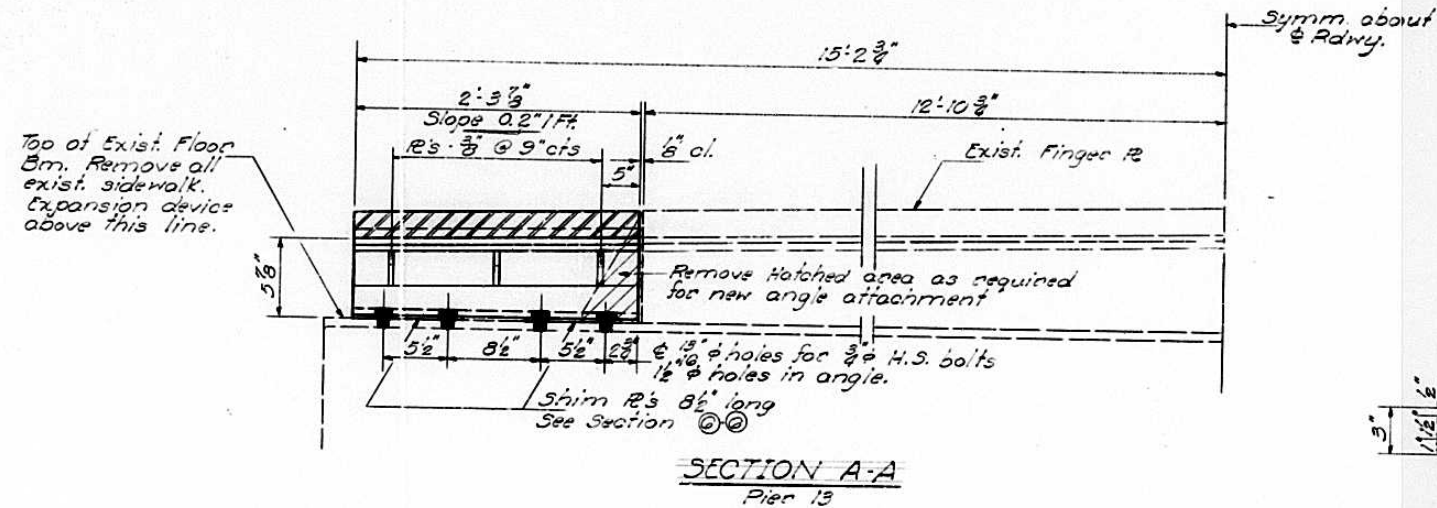


EXPANSION JOINT DETAILS
PIERS 7 & 10
P.A. 31 SEC. 153-I-2
PEORIA-TAZEWELL COUNTIES

DESIGNED	<i>Wm. Chilton</i>
CHECKED	R. F. RODKEY
DRAWN	J. SCHNELLER
CHECKED	R. F. R.
EXAMINED	<i>W. Baumann</i>
PASSED	<i>W. Baumann</i>
APPROVED	<i>R. Hanley</i>
	DIRECTOR OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.R.T. 31	15B-1-2	PEORIA & TAZEWELL	31	28
SHEET NO. 17 SHEETS				



FINGER PLATE DETAILS
Supply 2 units

SECTION C-C
Provide one 3/8" (Thru new Finger R) & one 1/2" shims for height adjustment. Pier 13- See Shts. #4 & #5

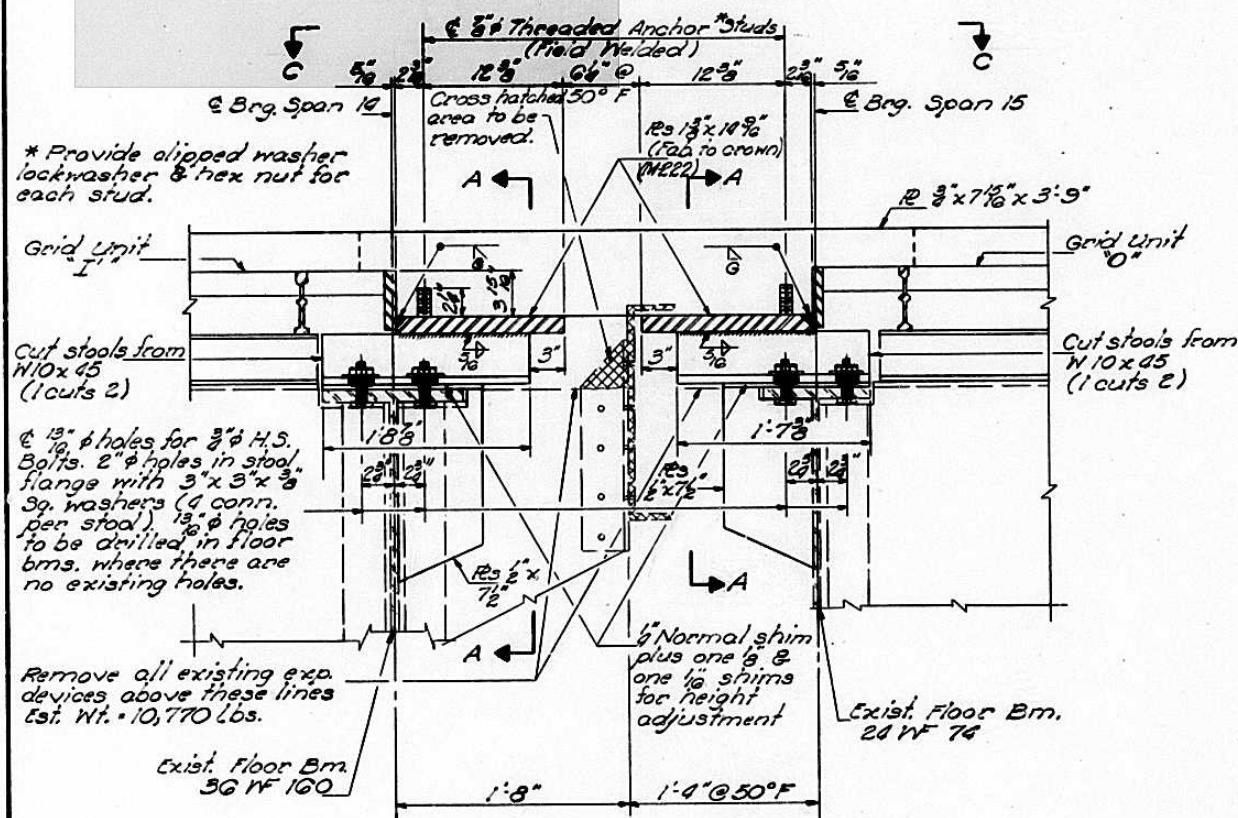
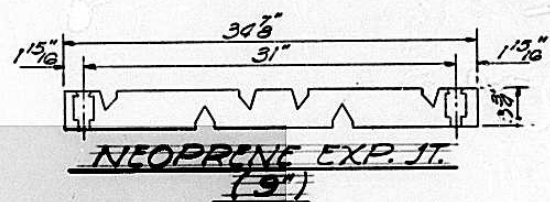
DESIGNED	Harry Culbert
CHECKED	R. F. Rodkey
DRAWN	J. SCHNELLER
CHECKED	R. F. R.

EXAMINED
PASSED
APPROVED
Feb. 4 1974
W. G. Baumann
DIRECTOR OF HIGHWAYS

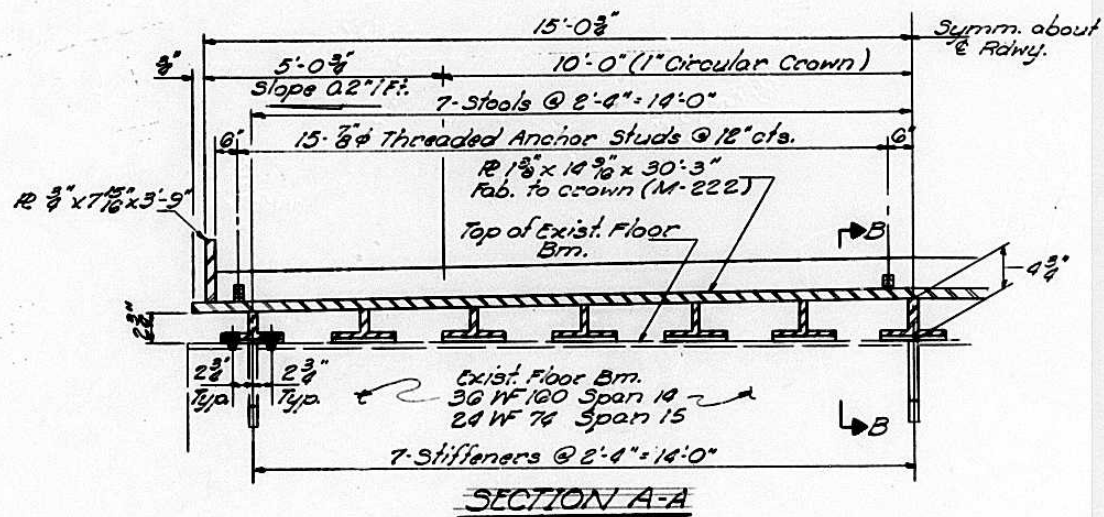
EXPANSION JOINT DETAILS
PIER 13
F.A.R.T. 31 SEC. 15B-1-2
PEORIA-TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

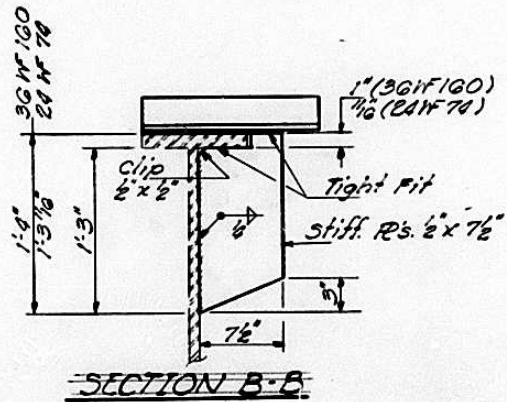
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P.A. 31	15-B-1c	PEORIA & TAZEWELL	31	140	17 SHEETS
PER. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	



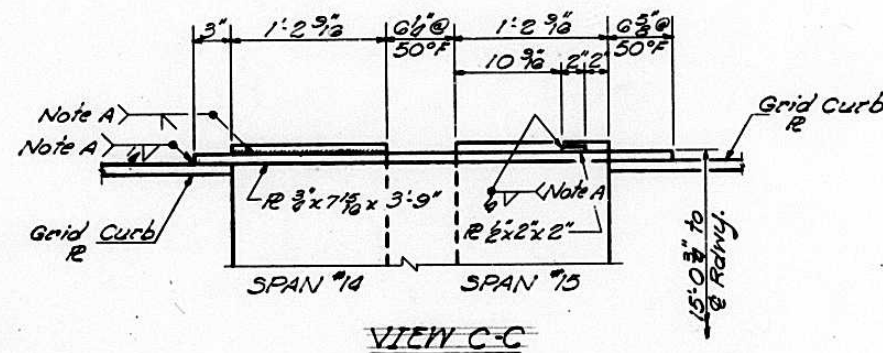
SECTION C-C
See Shts 148 & 5



NOTE A:
Weld before Neoprene Joint is installed.



SECTION B-B



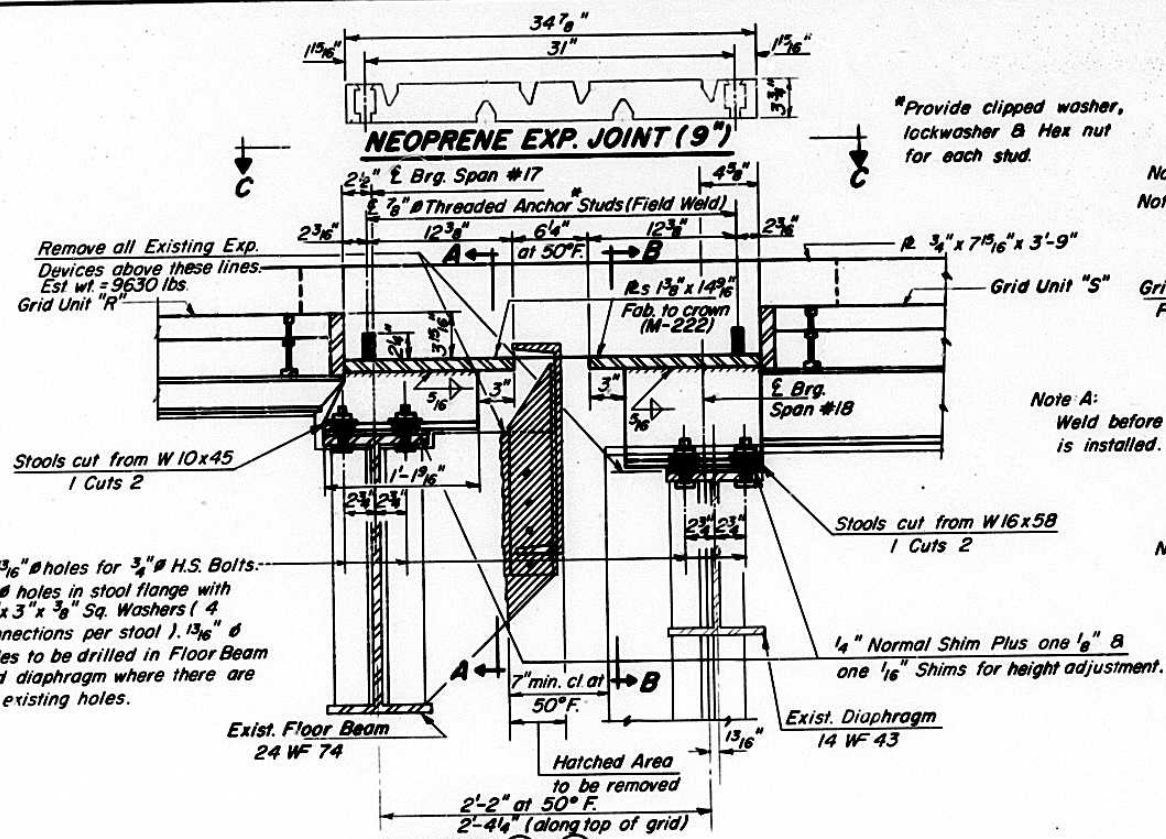
VIEW C-C

DESIGNED <i>Don Chilton</i>	EXAMINED _____
CHECKED R. F. ROONEY	PASSED _____
DRAWN J. SCHNELLER	APPROVED _____
CHECKED R. F. R.	DIRECTOR OF HIGHWAYS

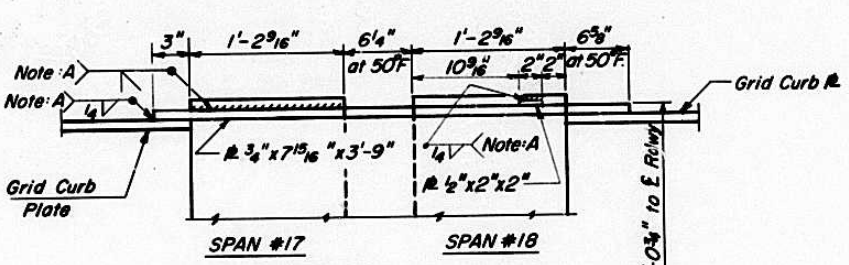
AS REVISED 5-24-74 D.L.G.
EXPANSION JOINT DETAILS
PIER 13
FA RT 31 SEC. 15B-1-2
PEORIA-TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

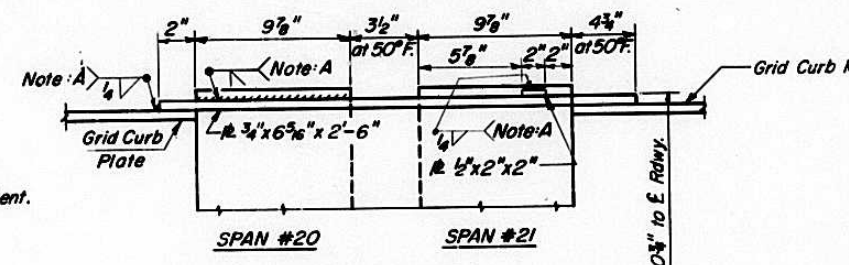
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 15 17 SHEETS
F.A. 31	15B-I-2	PEORIA & TAZEWELL	31	29	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



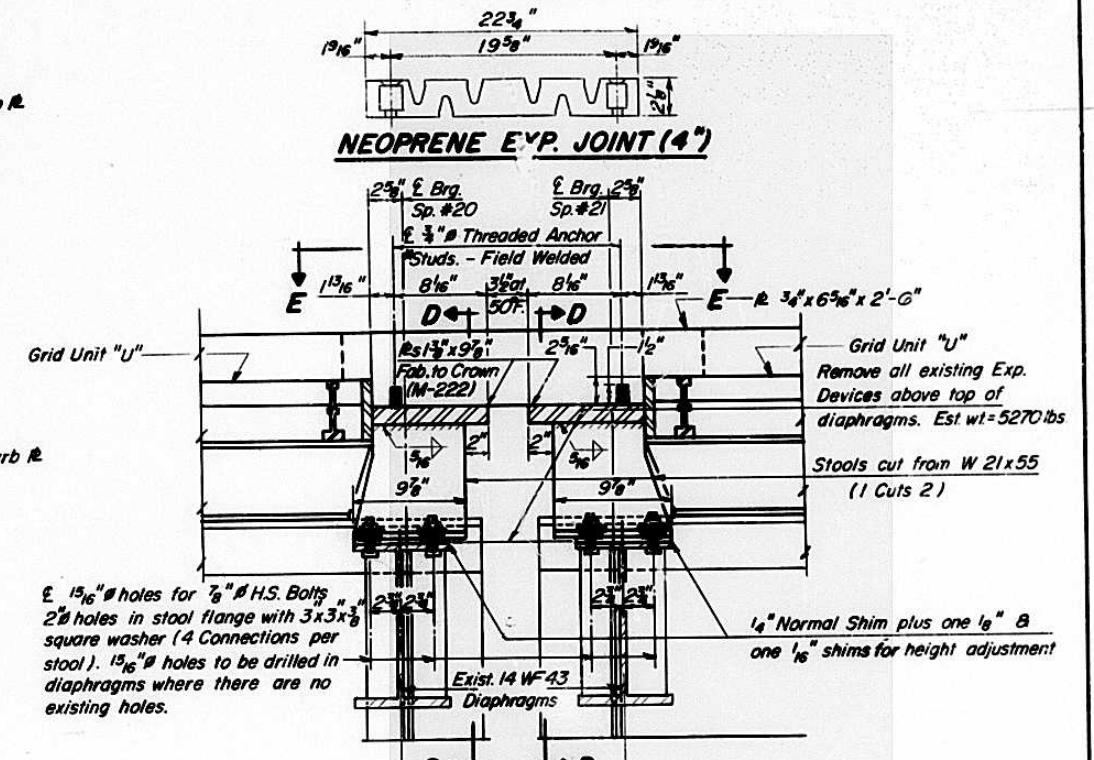
SECTION 7-7
(Pier #16)
(See Sheets #5 and #6.)



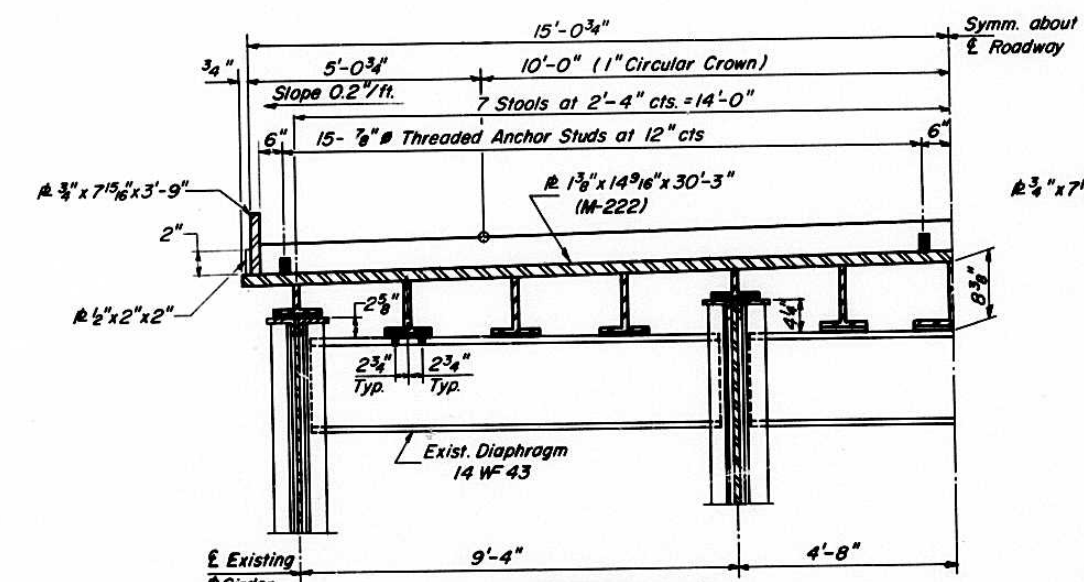
VIEW C-C



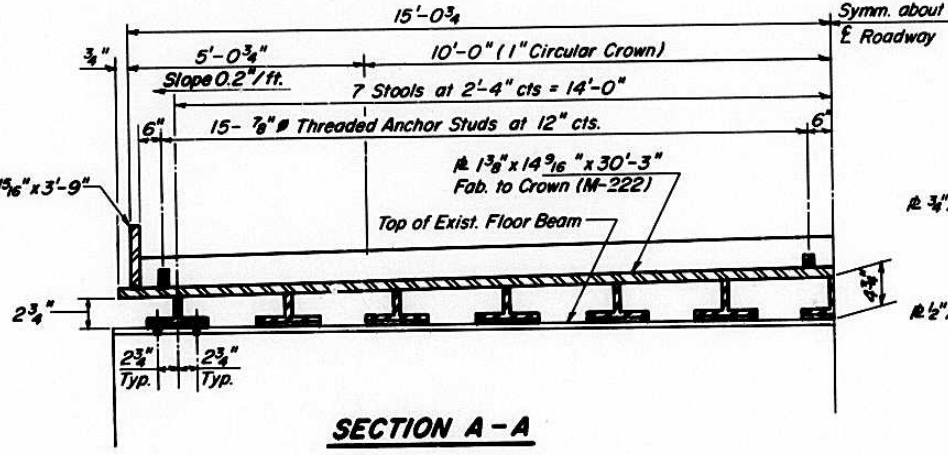
VIEW E-E



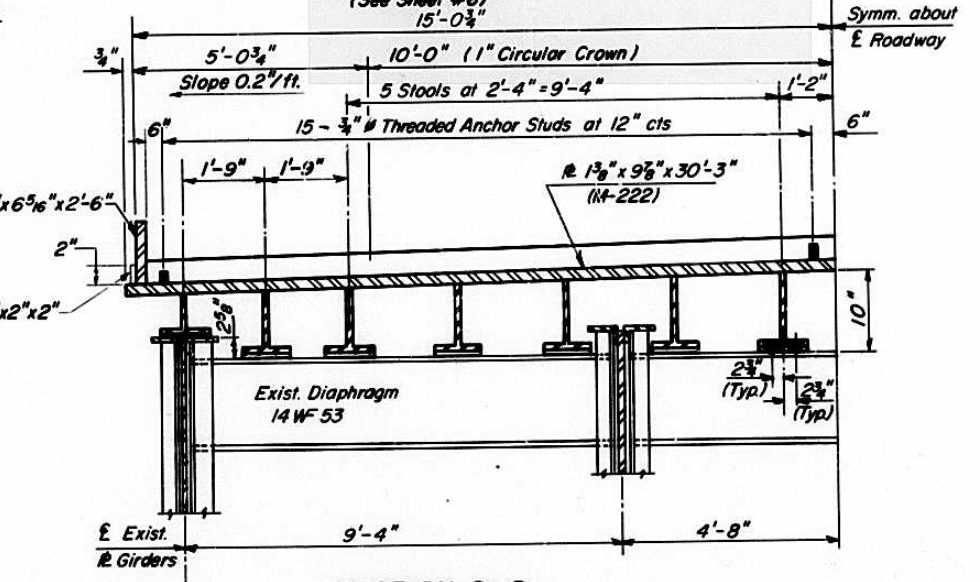
SECTION 8-8
(Pier #19)
(See Sheet #6)



SECTION B-B



SECTION A-A



SECTION D-D

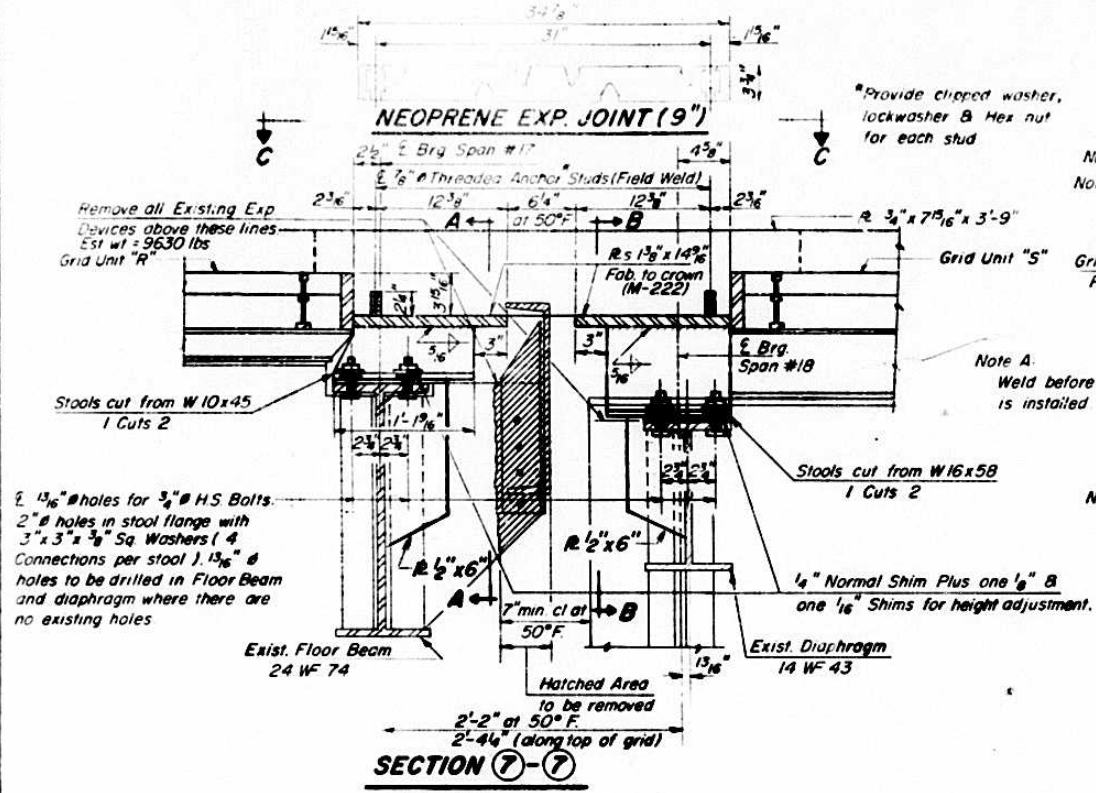
DESIGNED	<i>David Chilton</i>
CHECKED	R. F. Rodkey
DRAWN	P. Barnett
CHECKED	R. F. R.

EXAMINED	<i>[Signature]</i>
PASSED	<i>W.C. Baumann</i>
APPROVED	<i>Harry R. Hanley</i>
	DIRECTOR OF HIGHWAYS

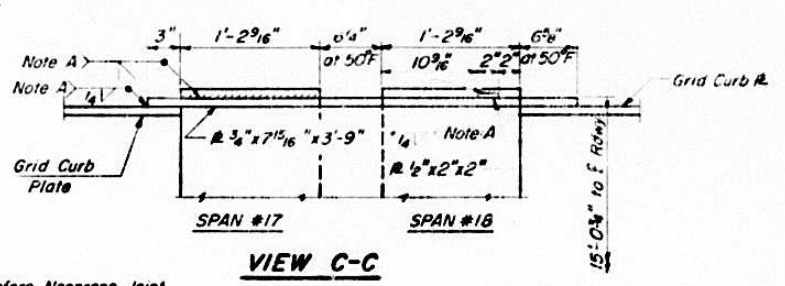
EXPANSION JOINT DETAILS
PIERS #16 & #19
F.A. RT. 31 SEC. 15B-I-2
PEORIA - TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

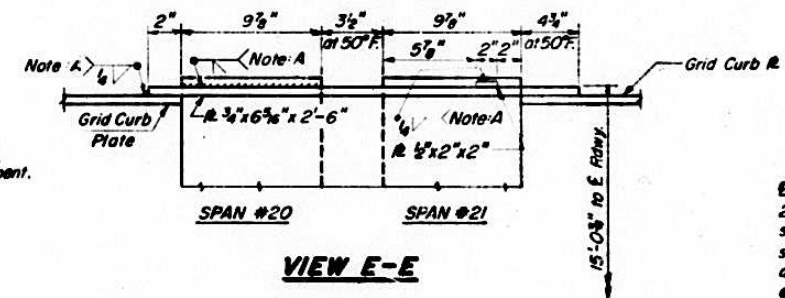
PROJECT NO.	31	SECTION	15B-2	DATE	7/23/74	SHEET NO.	29A	TOTAL SHEETS	31
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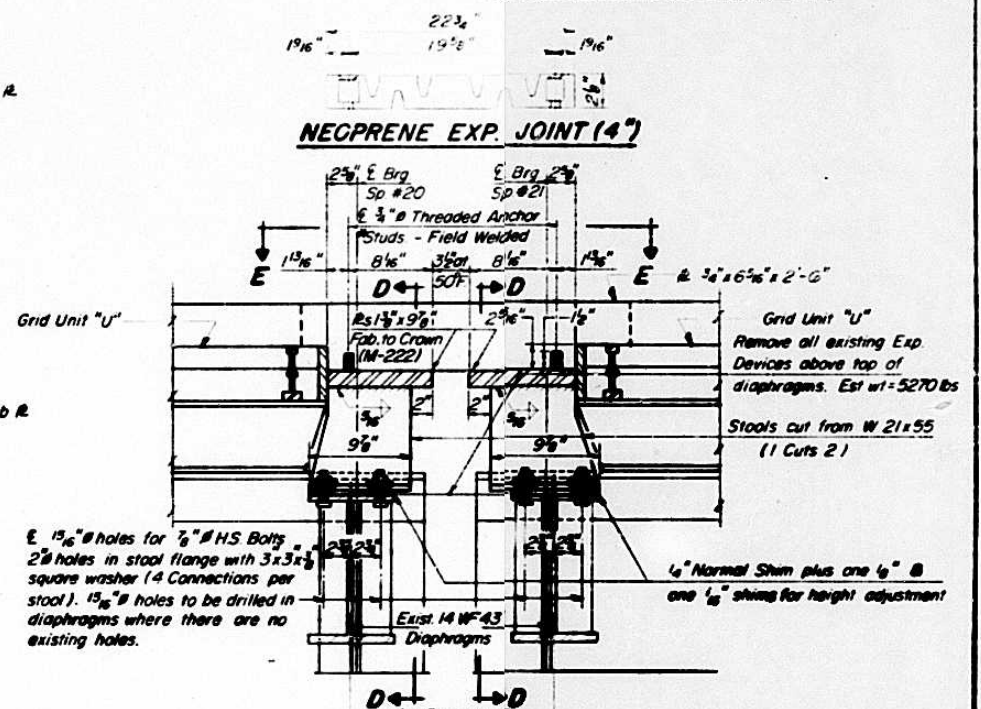
SECTION 7-7
(Pier #16)
(See Sheets #5 and #6.)



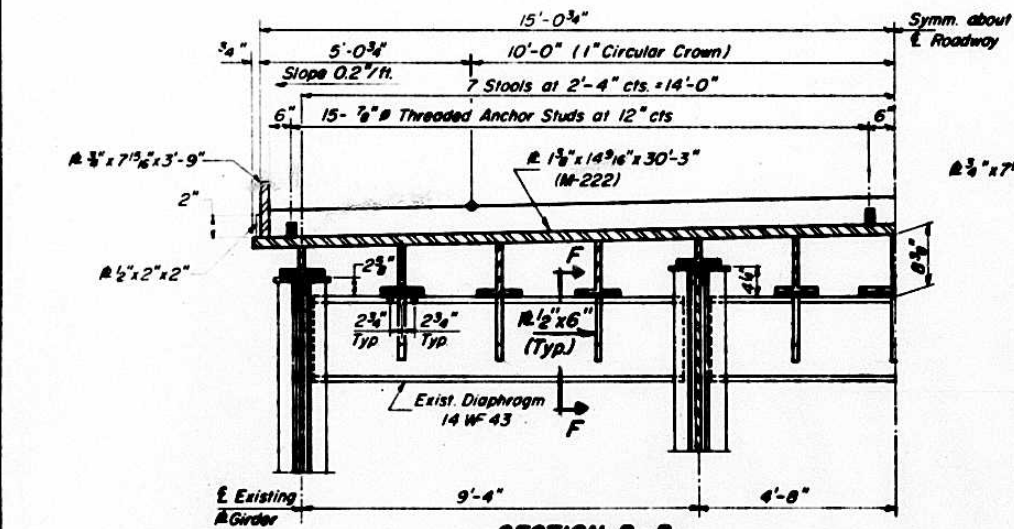
VIEW C-C



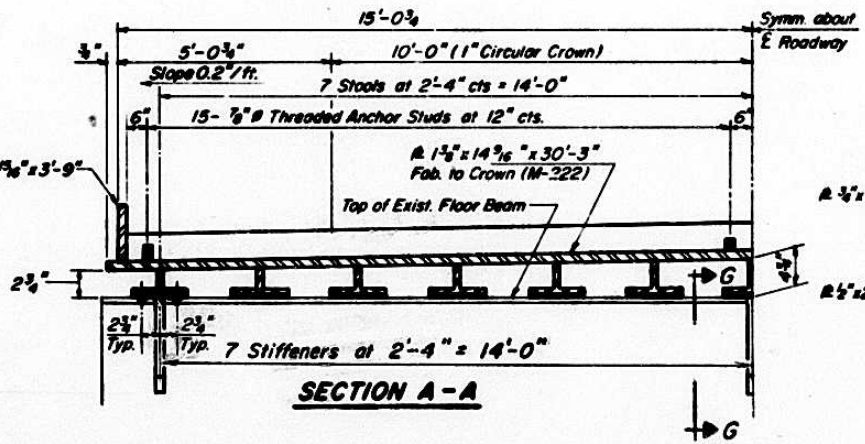
VIEW E-E



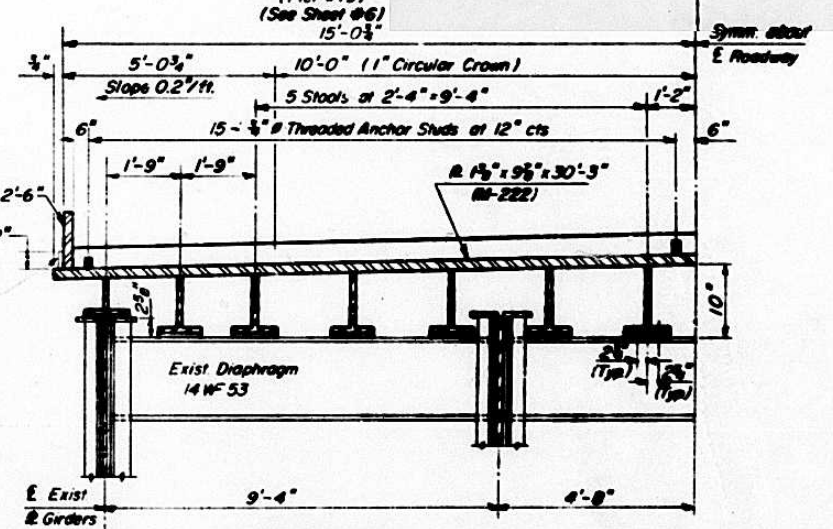
SECTION 8-8
(Pier #19)
(See Sheet #6)
15'-0 3/4"



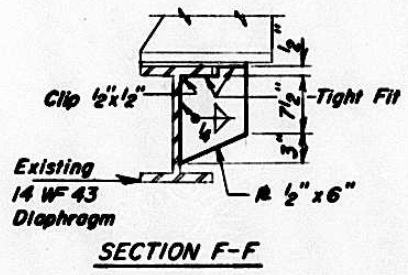
SECTION B-B



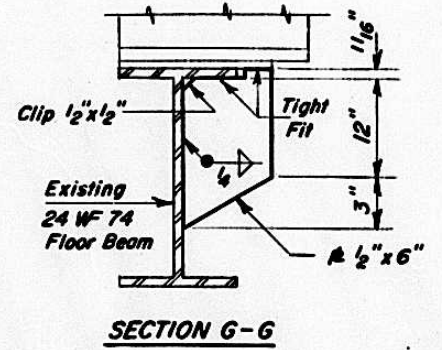
SECTION A-A



SECTION D-D



SECTION F-F



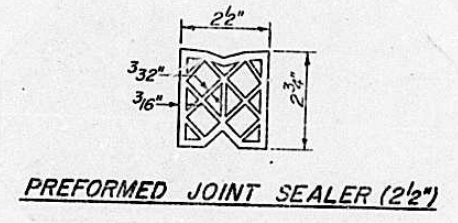
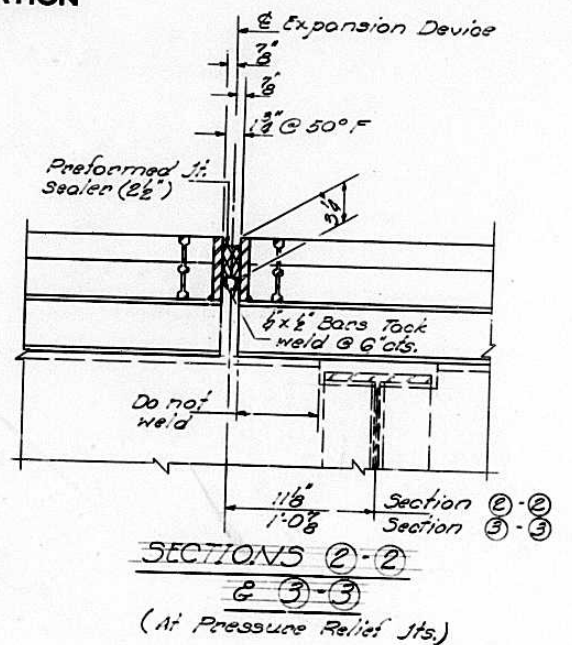
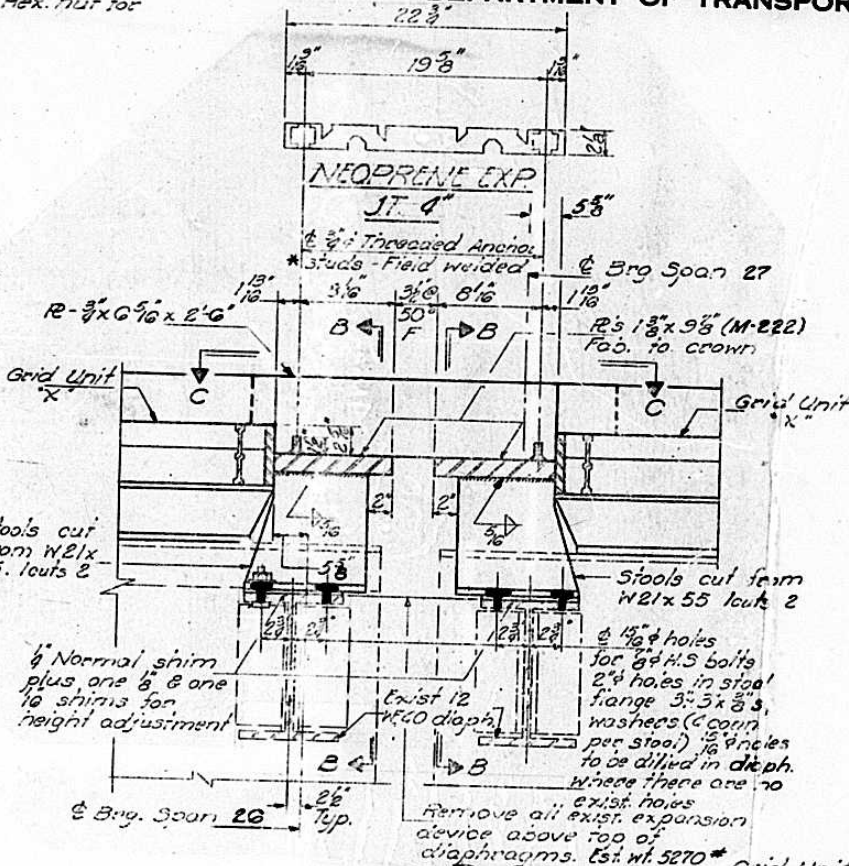
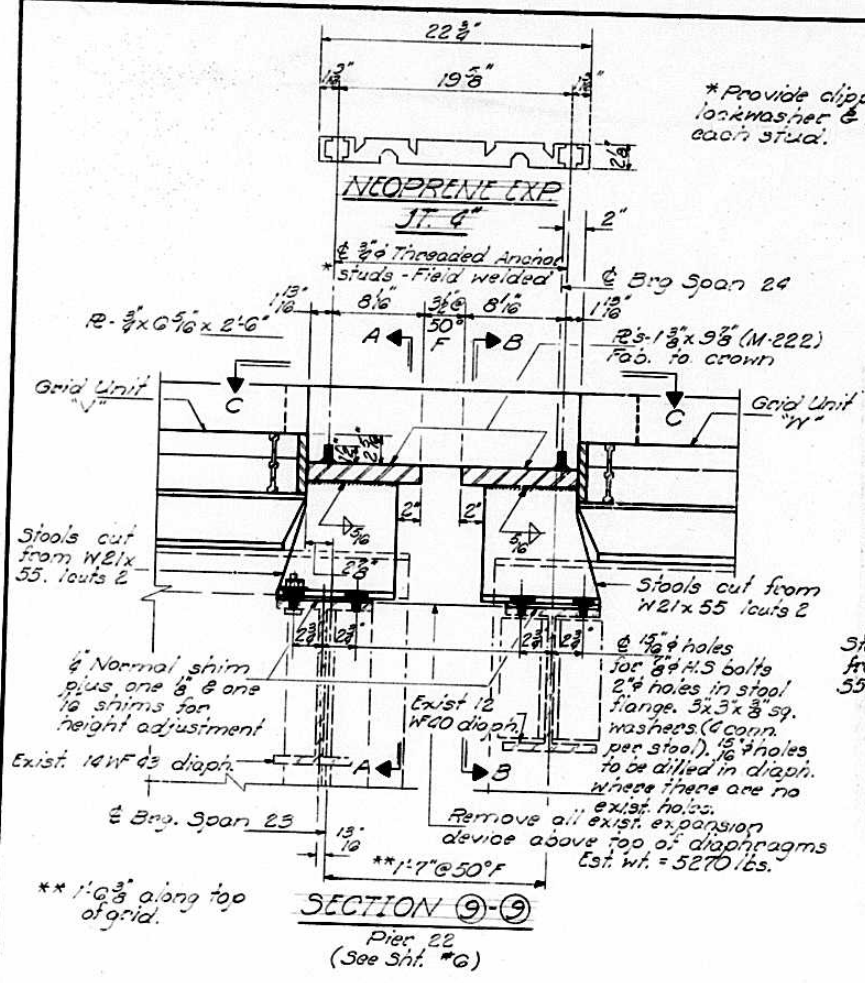
SECTION G-G

DESIGNED	<i>[Signature]</i>	EXAMINED	<i>[Signature]</i>
CHECKED	<i>[Signature]</i>	PASSED	<i>[Signature]</i>
DRAWN	P. Barnett	APPROVED	<i>[Signature]</i>
CHECKED	K. F. K.	DIRECTOR OF HIGHWAYS	

AS REVISED 5-24-74 D.L.C.
EXPANSION JOINT DETAILS
PIERS #16 & #19
F.A. RT. 31 SEC. 15B-2-2
PEORIA-TAZEWELL COUNTIES

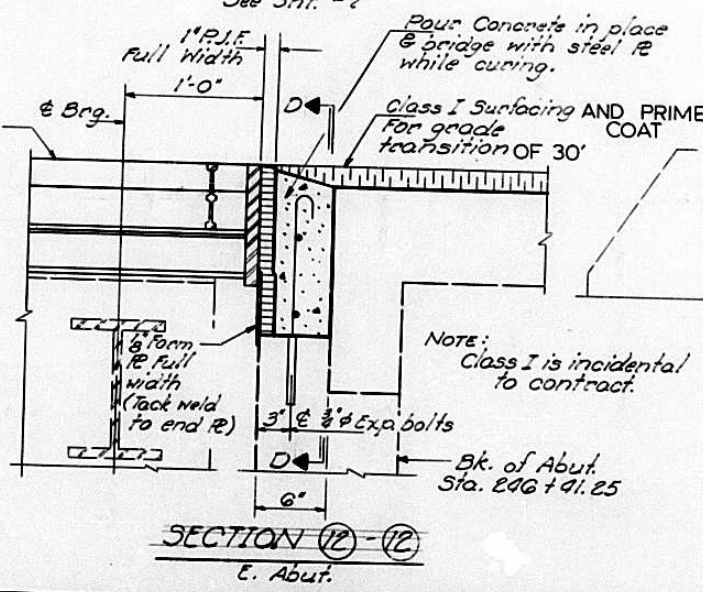
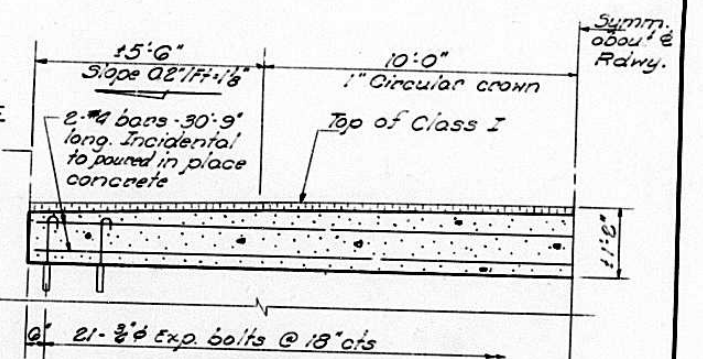
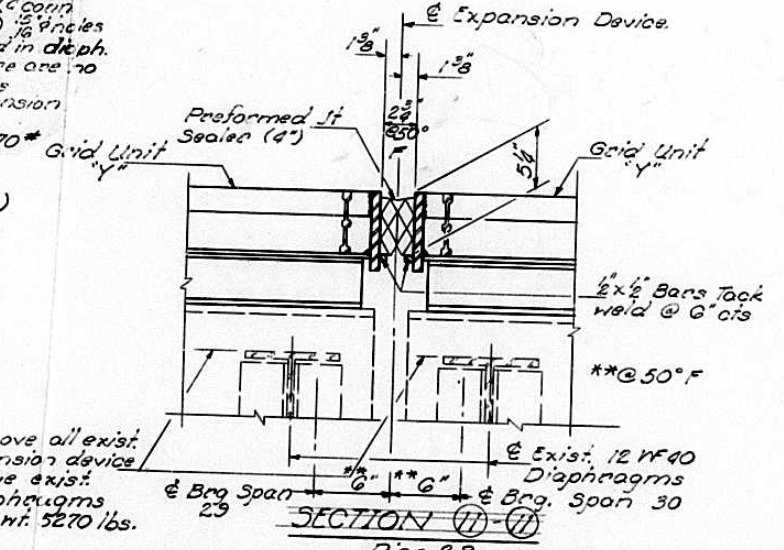
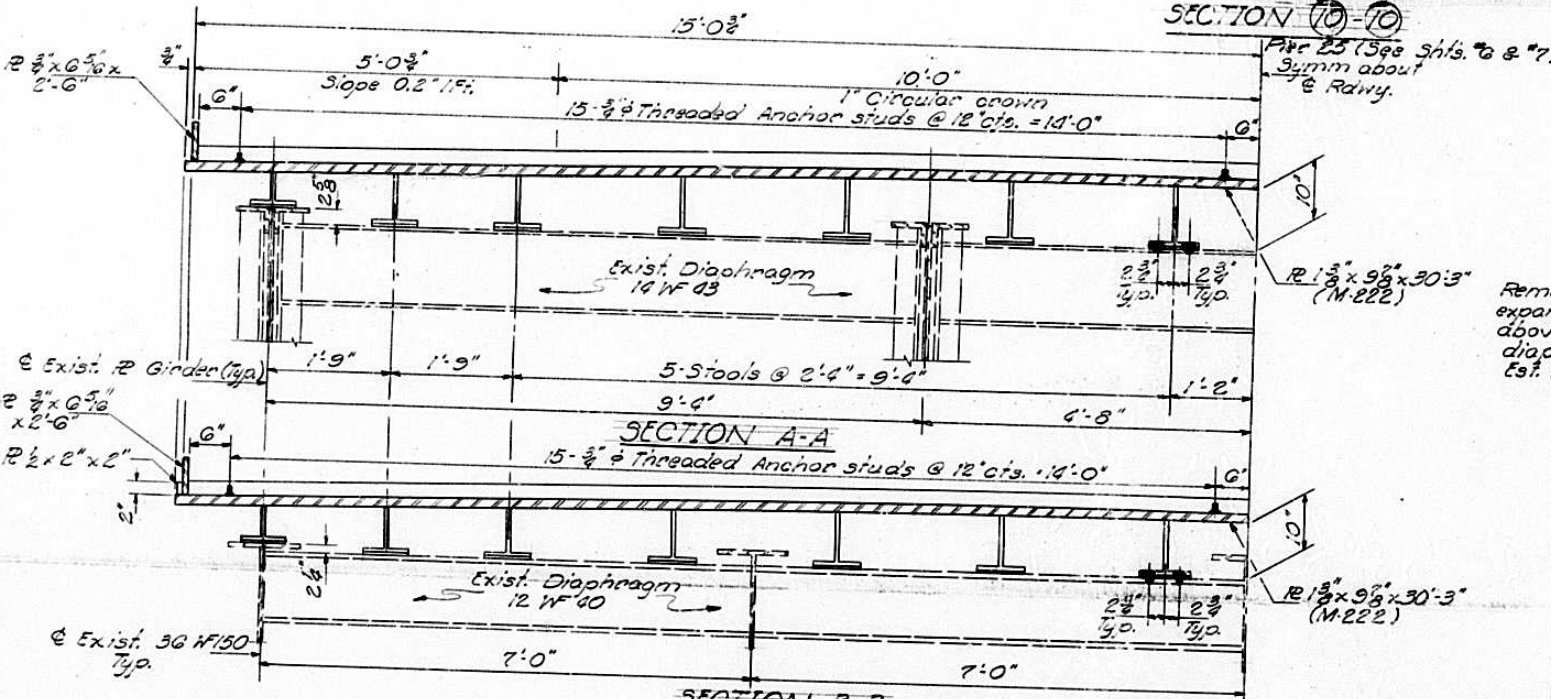
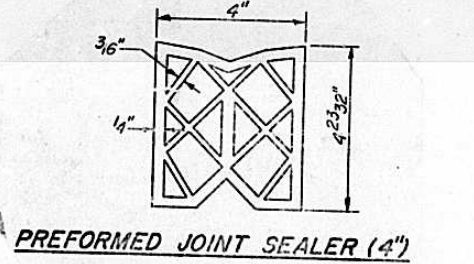
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
31	15B-2	PEORIA & TAZEWELL	31	30
ILLINOIS			17 SHEETS	



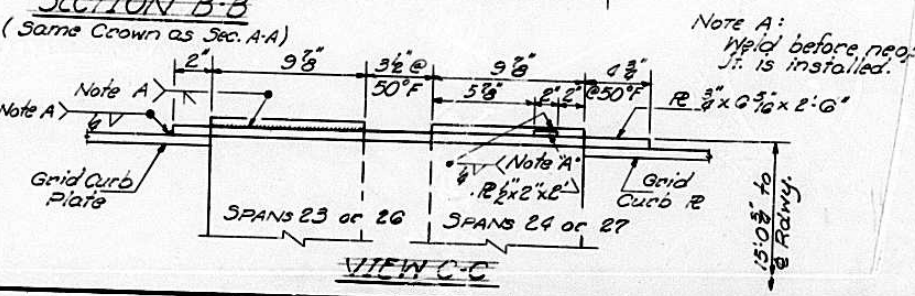
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Class X Concrete	Cu. Yds	0.6
Expansion Bolts 3/4"	Each	21



DESIGNED *Paul Ahlert*
CHECKED R. F. ROULEY
DRAWN J. SCHNELLER
CHECKED R. F. R.

EXAMINED *[Signature]*
PASSED *[Signature]*
APPROVED *Harry R. Hanley*
DIRECTOR OF HIGHWAYS

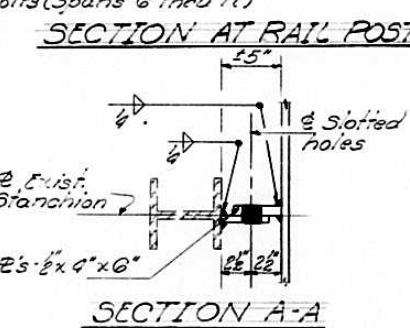
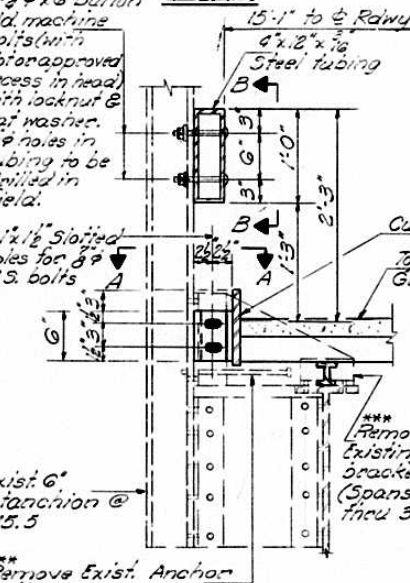
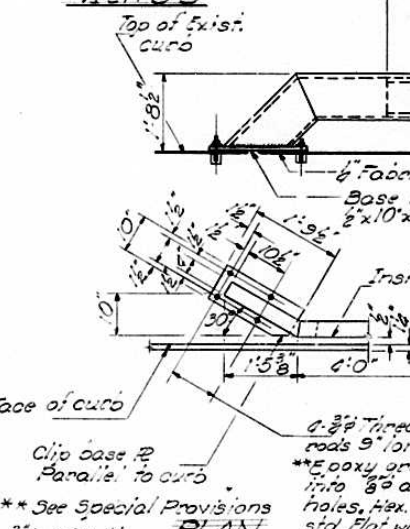
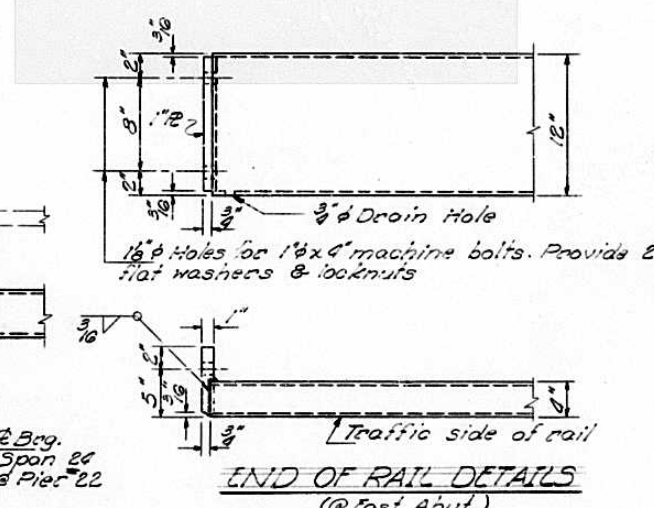
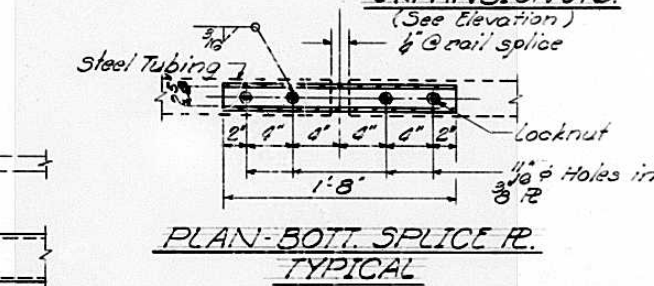
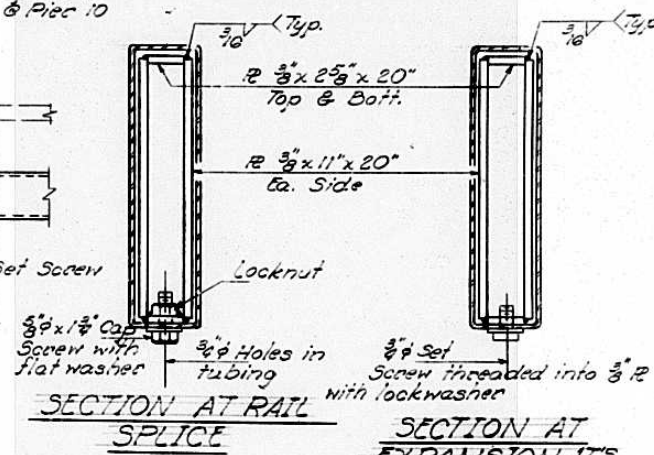
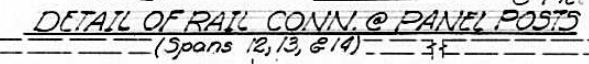
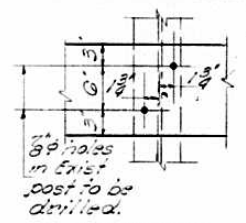
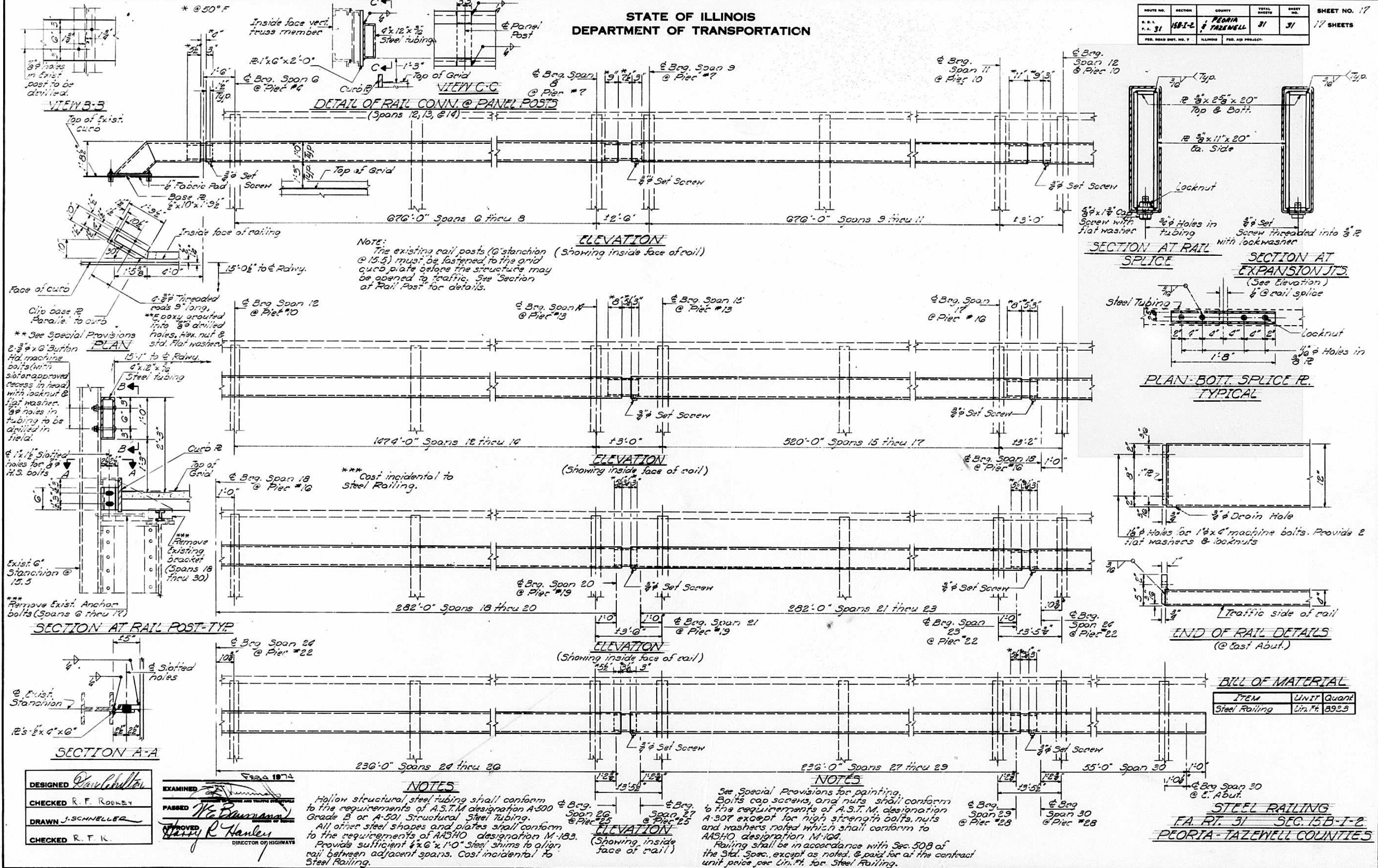


SECTION D-D
E. Abut.
PRESSURE RELIEF & EXPANSION JOINT DETAILS
PIERS 22, 25, 28 & E. ABUT.
P.A. RT. 31 SEC. 15B-1-2
PEORIA-TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A. 31	15B-I-2	PEORIA & TAZEWELL	31	31
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 17
17 SHEETS



DESIGNED *David Butler*
CHECKED R. F. RODNEY
DRAWN J. SCHNELLER
CHECKED R. F. K.

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

NOTE:
The existing rail posts @ station (Showing inside face of rail) @ 15.5 must be fastened to the grid curb plate before the structure may be opened to traffic. See Section at Rail Post for details.

*** Cost incidental to Steel Railing.

NOTES
Hollow structural steel tubing shall conform to the requirements of A.S.T.M designation A-500 Grade B or A-501 Structural Steel Tubing. All other steel shapes and plates shall conform to the requirements of AASHTO designation M-183. Provide sufficient 1/2x6x1-0 steel shims to align rail between adjacent spans. Cost incidental to Steel Railing.

NOTES
See Special Provisions for painting. Bolts cap screws, and nuts shall conform to the requirements of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO designation M-104. Railing shall be in accordance with Sec. 508 of the Std. Spec. except as noted, & paid for at the contract unit price per Lin. Ft. for Steel Railing.

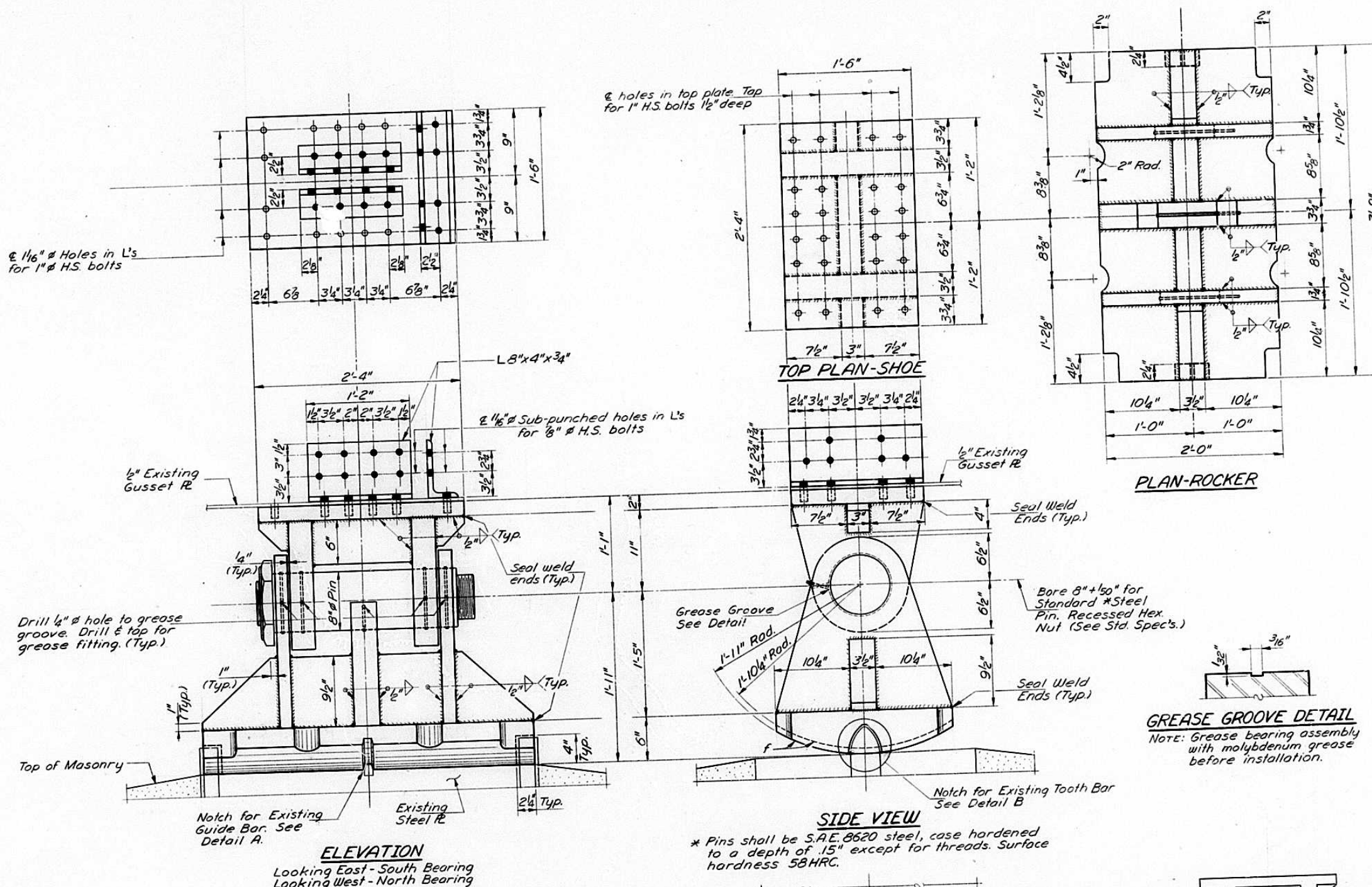
BILL OF MATERIAL

ITEM	UNIT	Quant
Steel Railing	Lin. Ft.	892.5

STEEL RAILING
F.A. RT. 31 SEC. 15B-I-2
PEORIA-TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U. S. 1.				2
F. A.				SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



The following enumerated paragraphs describe the procedure to be used for replacing the thru truss bearings at Pier 10.

- 1) Member L_oU₁ shall be raised 1/2" Max. to remove the bearing assembly (South Brg. shall be done first) utilizing a 350 Ton (min.) jack positioned under the jacking floor beam. The temporary support under the chord shall remain.
- 2) The existing bearing assembly shall be removed including the existing angles which attach the truss to the bearing. See Detail C.
- 3) The new angles shall then be matched to the truss member and the 1 1/8" \varnothing sub-punched holes reamed to 1 5/16" for 7/8" \varnothing H.S. bolts.
- 4) The new bearing shall then be positioned and bolted to the truss member.
- 5) The temporary support under the chord shall then be removed and utilized for the North bearing replacement where the same replacement procedure shall be followed.

GENERAL NOTES

All new structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint.

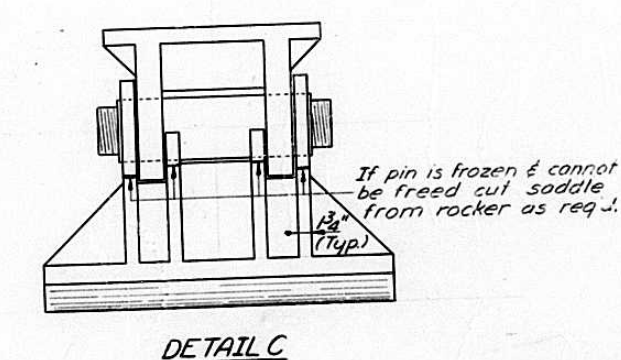
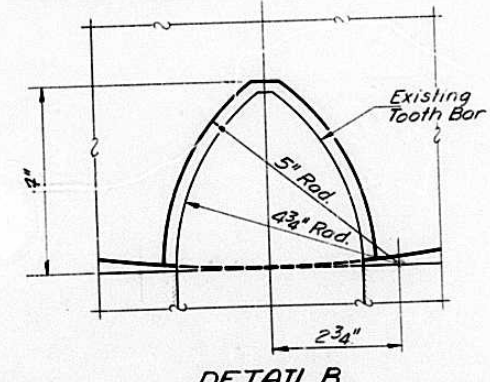
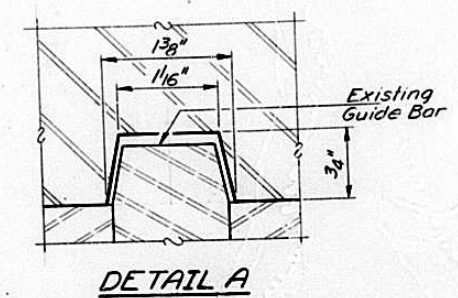
It shall be the responsibility of the contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials. Traffic shall not be allowed on the bridge until completion of work.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Structural Steel	Lbs.	9310

Includes 2 bearings for Pier 10 & 2 bearings for Pier 13.

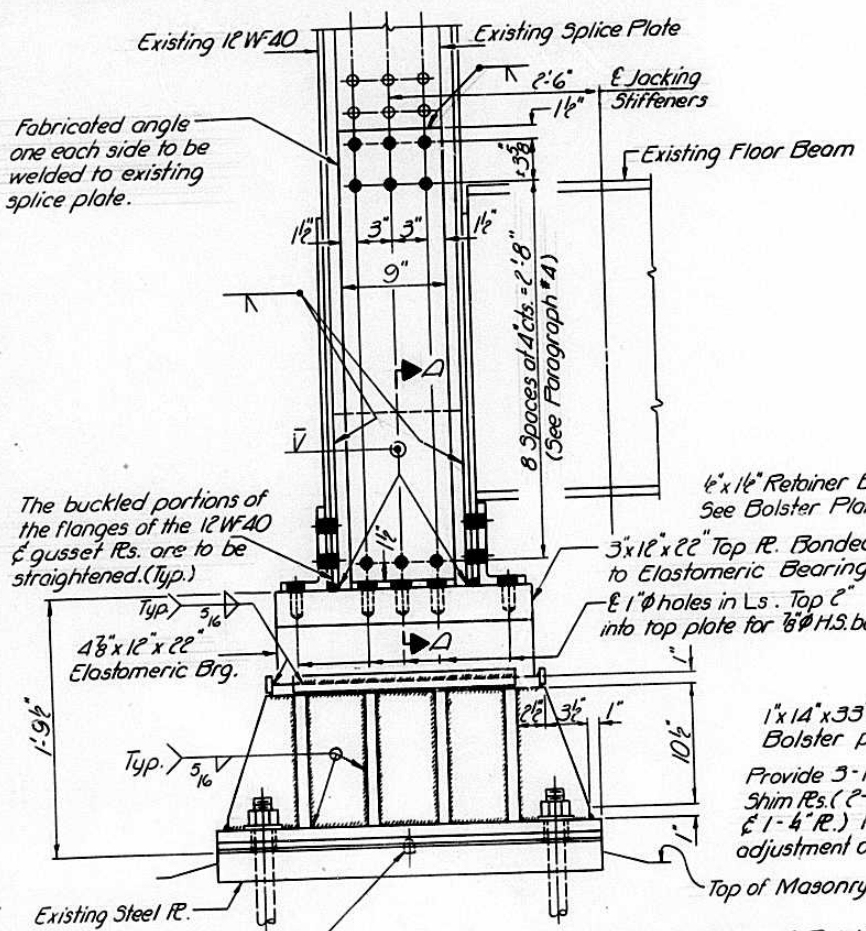
DESIGNED <i>Don Ahlstrom</i>	19
CHECKED <i>Robert L. Lutz</i>	EXAMINED
DRAWN <i>G.M. Ritchie</i>	PASSED
CHECKED <i>RJL</i>	APPROVED
	DIRECTOR OF HIGHWAYS



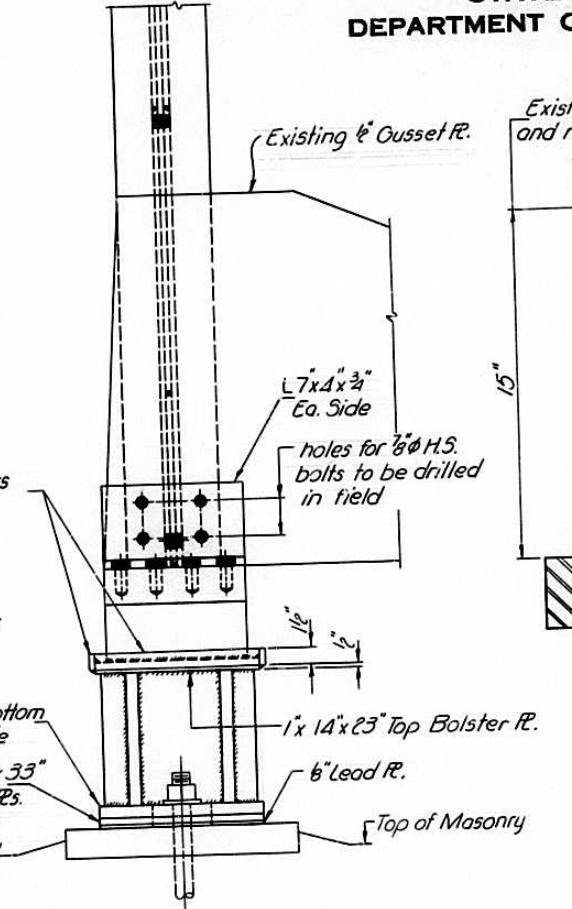
BEARING REPLACEMENT AT PIER 10 - THRU TRUSS SPAN
F.A. ROUTE 31
SECTION 158-1-2
PEORIA-TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

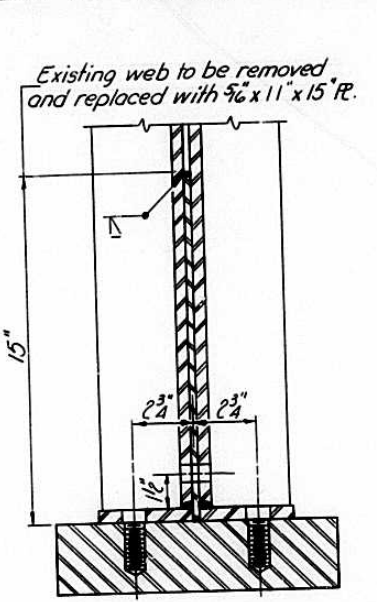
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				2
SHEETS				
ILLINOIS FED. AID PROJECT				



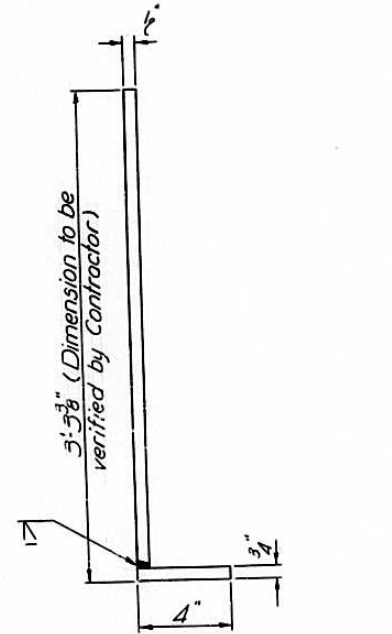
ELEVATION - SOUTH BEARING - PIER 13
DECK TRUSS SPAN



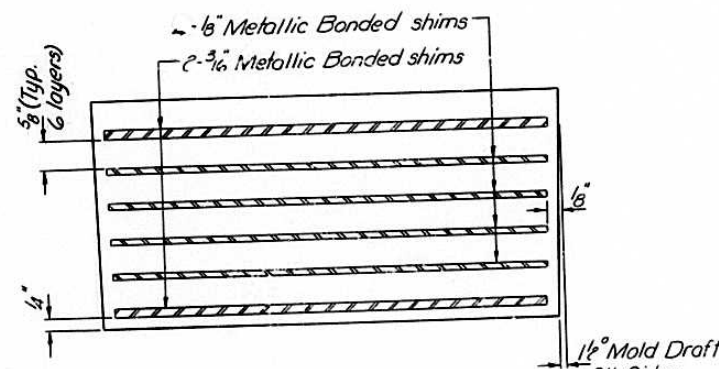
ELEVATION - NORTH BEARING - PIER 13
DECK TRUSS SPAN



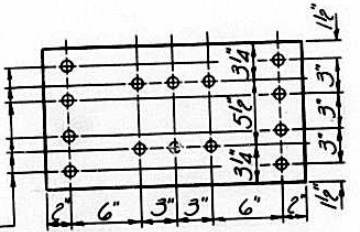
SECTION A-A



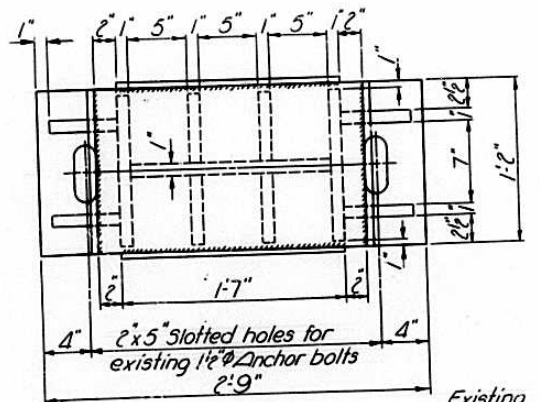
FABRICATED ANGLE
DETAIL
(2 Required)



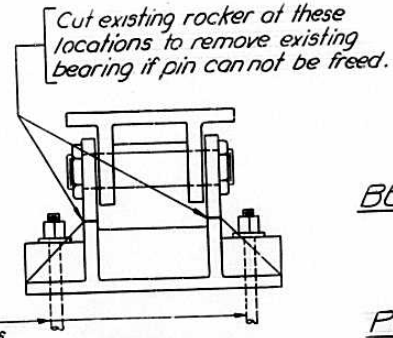
ELASTOMERIC BEARING DETAIL



PLAN - TOP PLATE



PLAN - BOLSTER



DETAIL A

The following enumerated paragraphs describe the procedure to be used for replacing the South Bearing of the deck truss span at Pier 13 and repairing the web of member Uo Lo (12WF40) of the same location.

- Member Uo Lo shall be raised 1/2" max. to remove the bearing assembly utilizing a 100 ton (min.) jack positioned under the jacking floor beam. The temporary support under the chord shall remain.
- The existing bearing assembly shall be removed including the angles attached to the 12WF40. See Detail A.
- The damaged area of the web of the 12WF40 shall be removed and the buckled flanges and gussets straightened.
- The fabricated angles with 1/16" sub-punched holes shall be used as a template for the exist. web and the holes for 3/8 H.S. bolts reamed out to 15/16". One angle shall be installed on the inside (east side) of the 12WF40 with adequate bolts installed and tightened in the area of the transverse weld so the angle will act as a backing plate. The 5/16 x 11 x 15 plate shall then be welded as shown on the plans.
- The new bearing shall then be positioned and the bottom of the 12WF40 and gusset plates welded to the 3 x 12 x 22 top bearing plate.
- The remaining fabricated angle and the 7 x 4 x 3/4 angles shall then be installed and the anchor bolt nuts tightened. The temporary support under the chord may then be removed.

The following enumerated paragraphs describe the procedure to be used for replacing the North Bearing of the deck truss span at Pier 13.

- Member Uo Lo shall be raised 1/2" max. to remove the bearing assembly utilizing a 100 ton (min.) jack positioned under the jacking floor beam. The temporary support under the chord shall remain.
- The existing bearing assembly shall be removed including the angles attached to the 12WF40. See Detail A.
- The 1/16" holes in the 4 x 4 x 3/4 Ls and the 7 x 4 x 3/4 Ls shall then be drilled to match the holes in the existing 12WF40 and the 3/8 H.S. bolts installed.
- The new bearing shall then be positioned and the angles bolted to the 3 x 12 x 22 top bearing plate.
- The anchor bolt nuts shall be tightened and the temporary support removed.

BEARING REPLACEMENT @ PIER 13
DECK TRUSS SPAN
I.A. ROUTE 31
SECTION 15 B-1-2
PEORIA-TAZEWELL COUNTIES

DESIGNED	Examined	19
CHECKED	EXAMINED	DESIGNER OF BRIDGE AND TRUSS STRUCTURES
DRAWN	PASSED	DESIGNER OF BRIDGE
CHECKED	APPROVED	DIRECTOR OF HIGHWAYS