

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
6757	(104VB-BR)BRR	TAZEWELL	20	1
ILLINOIS CONTRACT NO. 68E14				

D-94-027-18

INDEX OF SHEETS:

1. COVER SHEET
2. GENERAL NOTES, COMMITMENTS, AND PROJECT SPECIFIC NOTES
3. SUMMARY OF QUANTITIES
4. GENERAL LOCATION
5. SCHEDULE OF QUANTITIES
6. EXISTING BRIDGE PLAN
- 7-9. PROPOSED PIER DETAILS
- 10-20. ORIGINAL PLANS (FOR INFORMATION ONLY)

HIGHWAY STANDARDS:

- 000001-07
- 001001-02
- 001006
- 701411-09
- 701601-09
- 701901-08

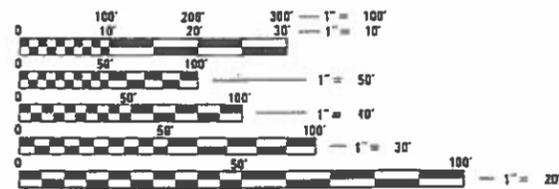
# PROPOSED HIGHWAY PLANS

FAU 6757 (US 150)  
SECTION (104VB-BR)BRR  
CONTRACT MAINTENANCE  
BRIDGE REHABILITATION  
TAZEWELL COUNTY

C-94-048-18



THIS PROJECT CONSISTS OF SUBSTRUCTURE REPAIR TO PIERS 3, 4, AND 5 AT SN 090-0037 ON US 150 (MEADOWS AVE.) OVER FARM CREEK, TP&W RAILROAD, AND NORFOLK SOUTHERN RAILROAD.

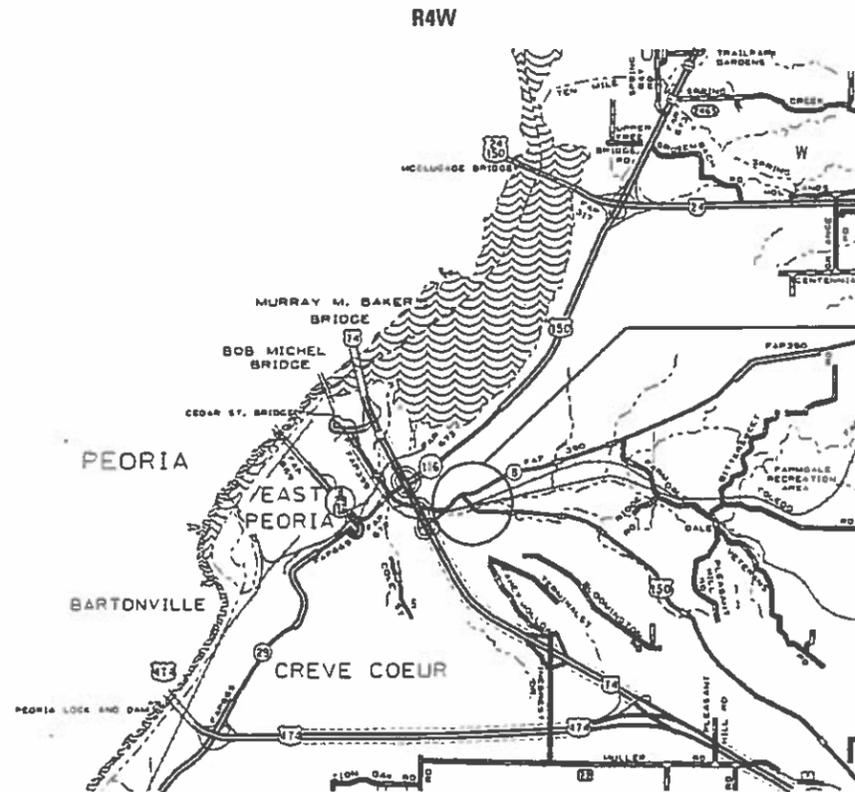


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

T 26 N

T 25 N



SN 090-0037

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 21, 2018

*Paul A. James*  
REGION THREE ENGINEER

*Robert A. Etk*  
2019  
ENGINEER OF DESIGN AND ENVIRONMENT

*Paul P. Chaf*  
2019  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: JOSH JOCHUMS (309) 671-3473  
PROJECT MANAGER: MARK ECKHOFF (309) 671-4463  
CONTRACT NO. 68E14  
CATALOG NO. 035592-00D

## GENERAL NOTES

### PLAN ELEVATIONS – U.S.G.S. MEAN SEA LEVEL DATUM

Use one of the following two options.

1. All elevations shown on the plans are established from U.S.G.S. mean sea level datum.

### PROPERTY OWNER ACCESS REQUIREMENTS

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

### CONSECUTIVE SIDE STREET (ROAD) CLOSURE – PROHIBITED

1. No two consecutive side streets (roads) may be closed at the same time during construction. The Contractor must alternate streets (roads).
2. Adjacent sideroads will not be closed simultaneously. BLR Standard 21 shall be used for all local road closures without any entrances within the closed area. BLR Standard 22 can be used where it is necessary to allow local traffic access.

### ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Cultural and Natural Resources Review of Borrow Areas)
- \* BDE Form 2290 (Waste/Use Area Review)
- \* A location map showing the size limits and location of the use area
- \* Color photographs depicting the use area
- \* Borrow Area Entry Agreement form – D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

### CRITICAL PATH WORK SCHEDULE REQUIREMENT

The Contractor will submit to the Engineer a satisfactory progress schedule and critical path schedule which shall show the proposed sequence of work at the time of the pre-construction conference.

### ADDITIONAL SUPPLEMENTAL TRAFFIC CONTROL

The Department reserves the right at any time to add additional Traffic Control Systems or devices within the active contract limits, by means of an additional contract. All terms of Article 105.08 of the Standard Specifications shall be followed by each Contractor.

### SIGNING

Sign locations may vary from the stations shown on the plans in accordance with directions from the Engineer at the time of construction. Sign locations may be adjusted in the field to avoid any found utilities.

All wood post locations shall be verified with the Bureau of Operations, Traffic Section, before installation.

## COMMITMENTS

No commitments have been made for this project.

## PROJECT SPECIFIC NOTES

Railroad flaggers will not be paid for at a unit price but will be paid for according to Article 109.05 of the Standard Specifications.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES, COMMITMENTS, AND PROJECT SPECIFIC NOTES SN 090-0037</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILE#		DRAWN -	REVISED -			6757	(104VB-BR)BRR	TAZEWELL	20	2	
MODELNAME#		CHECKED -	REVISED -			CONTRACT NO. 68E14					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET OF SHEETS		STA. TO STA.			





Bk. West Abut.  
Sta. 18+17.56

E. Sheen Ave.

NORFOLK SOUTHERN RR

TP&W RR

Keayes Ave.

S.N. 090-0037

Bk. East Abut.  
Sta. 25+65.36

Farm Creek

Meadow Ave.

MODEL: S:\MODELS\MAMES  
FILE: MAMES\_31113

USER NAME = \$USERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = \$DATE\$	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL LOCATION  
S.N. 090-0037**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	(104VB-BR)BRR	TAZEWELL	20	4
CONTRACT NO. 68E14				
ILLINOIS FED. AID PROJECT				

MOBILIZATION	
LOCATION	L SUM
JOBSITE	1.0
<b>TOTAL</b>	<b>1.0</b>

TEMPORARY SHORING AND CRIBBING	
LOCATION	EACH
PIER 3, SPAN 3	2
PIER 3, SPAN 4	2
PIER 5, SPAN 5	1
PIER 5, SPAN 6	1
<b>TOTAL</b>	<b>6</b>

TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	
LOCATION	EACH
EASTBOUND TRAFFIC	1
<b>TOTAL</b>	<b>1</b>

TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	
LOCATION	L SUM
EASTBOUND/WESTBOUND TRAFFIC	1
<b>TOTAL</b>	<b>1</b>

RAILROAD PROTECTIVE LIABILITY INSURANCE	
LOCATION	L SUM
JOBSITE	1
<b>TOTAL</b>	<b>1</b>

STRUCTURAL REPAIR OF CONCRETE LESS THAN 5"	
LOCATION	AREA
	SF
PIER 3	264
PIER 4	8
PIER 5	135
<b>TOTAL</b>	<b>407</b>

MODEL: \\MODELS\MAMES  
FILE NAME: ST115

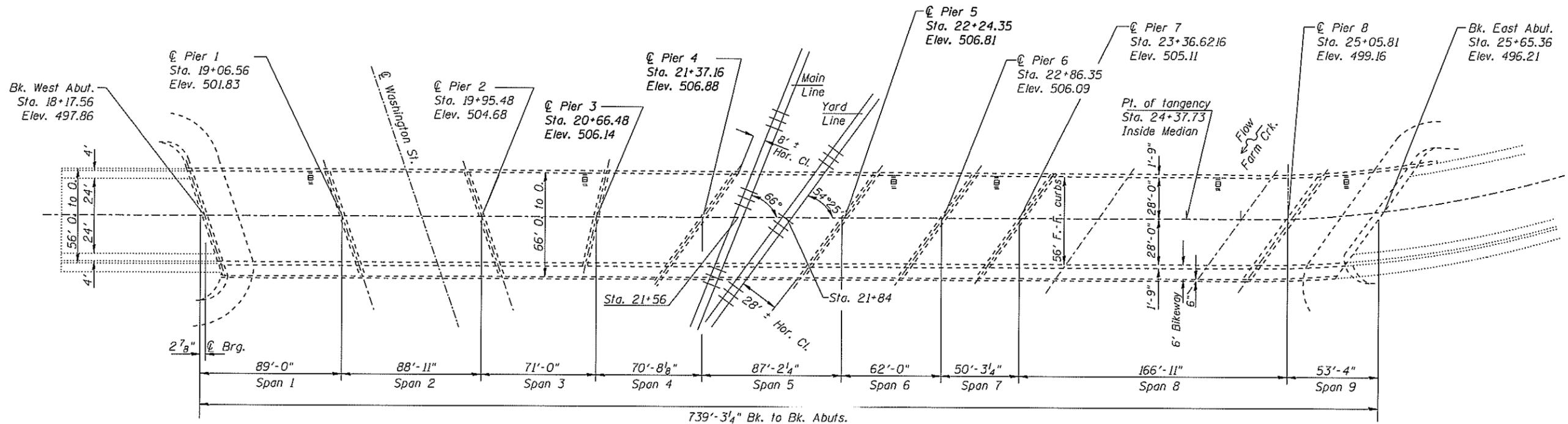
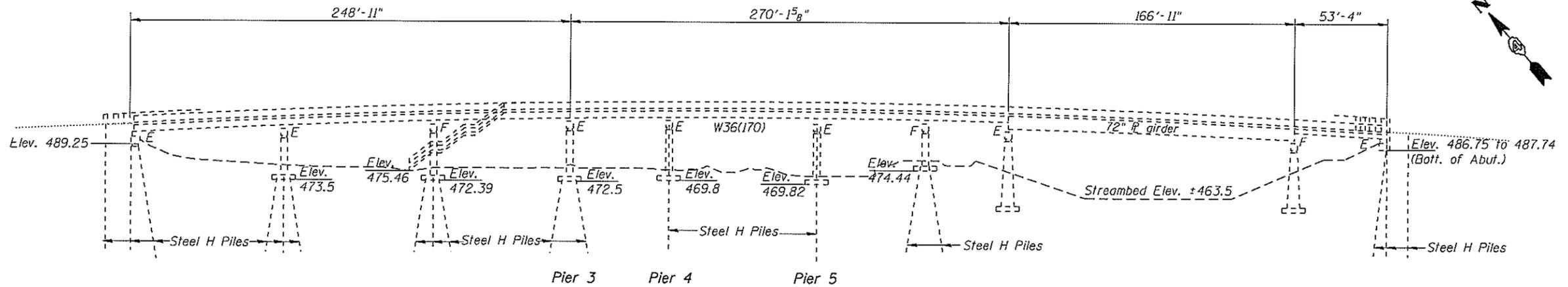
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	DRAWN -	REVISED -
PLOT SCALE = \$SCALES	CHECKED -	REVISED -
PLOT DATE = \$DATES	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	(104VB-BR)BRR	TAZEWELL	20	5
			CONTRACT NO. 68E14	
			ILLINOIS FED. AID PROJECT	



**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

If the analysis submitted to the Contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.



*David Carl Fuley* 1/30/19  
 Expires 11/30/20

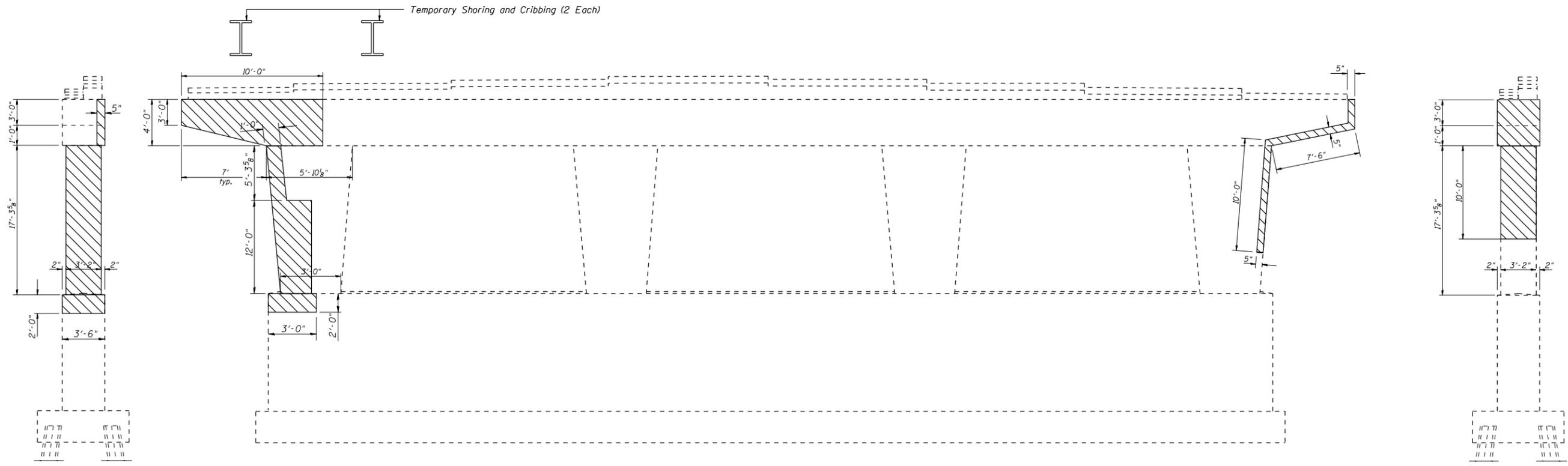
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PLOT DATE = SDATES	CHECKED - MSE	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS  
 S.N. 090-0037

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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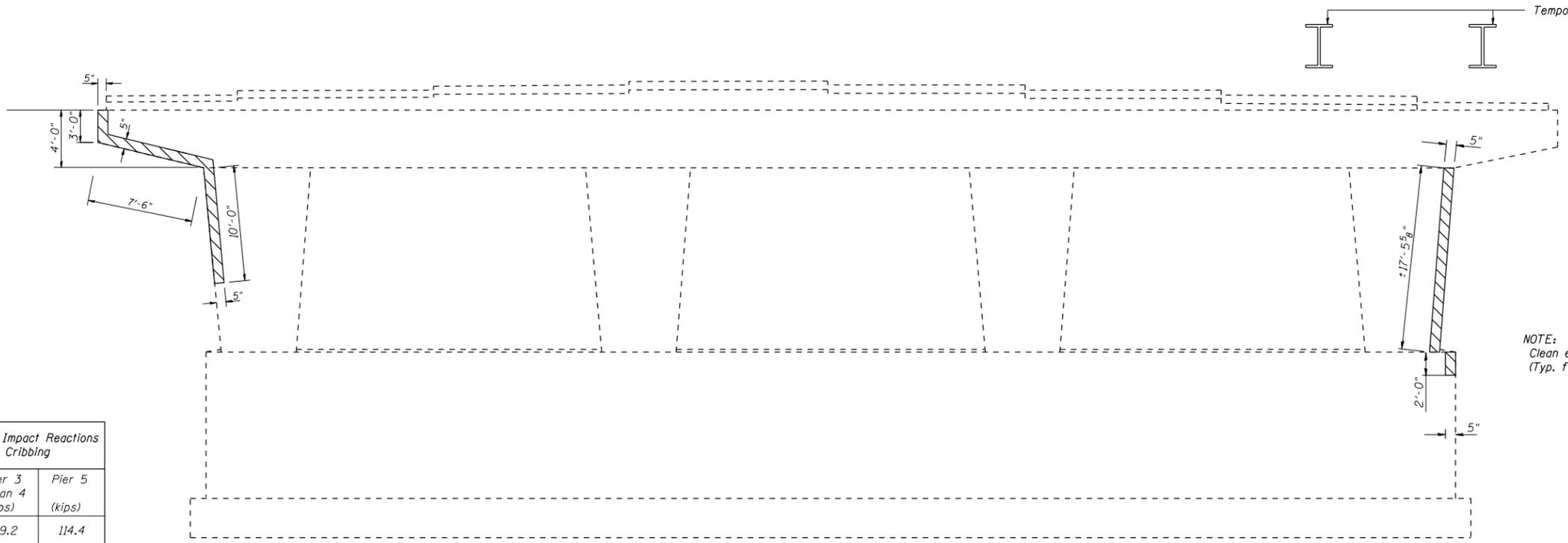
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	(104VB-BR)BRR	TAZEWELL	20	6
CONTRACT NO. 68E14				
ILLINOIS FED. AID PROJECT				



**END VIEW**

**ELEVATION**  
(East Face)

**END VIEW**



**ELEVATION**  
(West Face)

**NOTE:**  
Clean existing reinforcement and incorporate into new construction.  
(Typ. for all columns and bay repairs)

LEGEND	
	= Structural Repair of Concrete Less than 5"

Dead Load, Live Load, and Impact Reactions For Temporary Shoring and Cribbing			
	Pier 3 Span 3 (kips)	Pier 3 Span 4 (kips)	Pier 5 (kips)
R DL	49.8	49.2	114.4
R LL	48.5	48.5	61.3
R Impact	11.5	11.5	7.8
R Total	109.8	109.2	183.5

MODEL: SMOBELMAMES  
FILE NAME: STILES

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = \$SCALES	DRAWN -	REVISED -
PLOT DATE = \$DATES	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

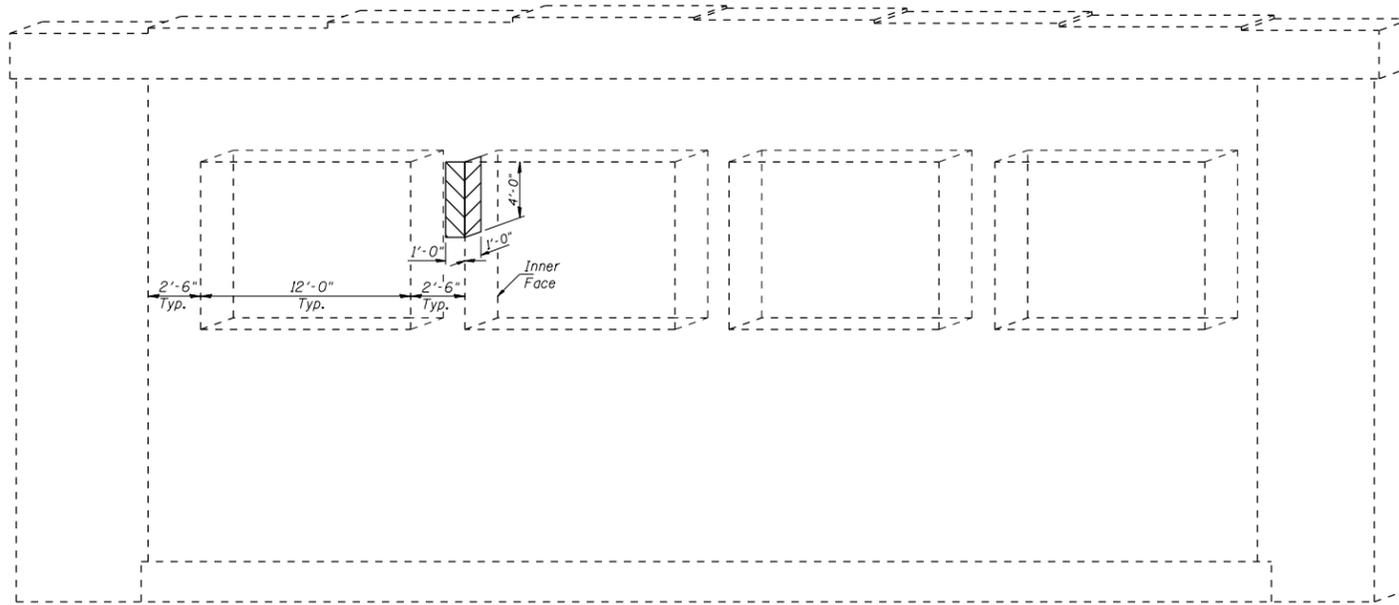
**PIER 3 STA. 19+06.56  
S.N. 090-0037**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	(104VB-BR)BRR	TAZEWELL	20	7
CONTRACT NO. 68E14				
ILLINOIS		FED. AID PROJECT		



**END VIEW**

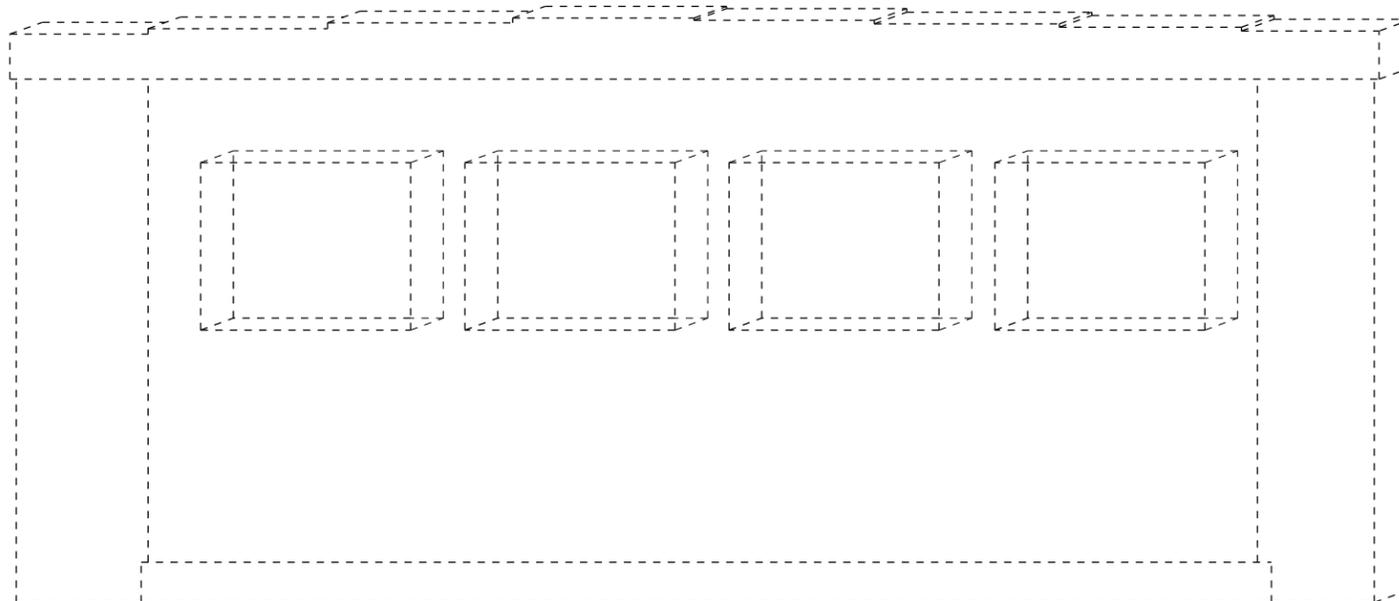


**ELEVATION**  
(East Face)



**END VIEW**

**NOTE:**  
Clean existing reinforcement and incorporate into new construction.  
(Typ. for all columns and bay repairs)



**ELEVATION**  
(West Face)

LEGEND	
	= Structural Repair of Concrete Less than 5"

MODEL: 140DELMAMES  
FILE NAME: 37113

USER NAME = \$USERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = \$SCALES	CHECKED -	REVISED -
PLOT DATE = \$DATES	DATE -	REVISED -

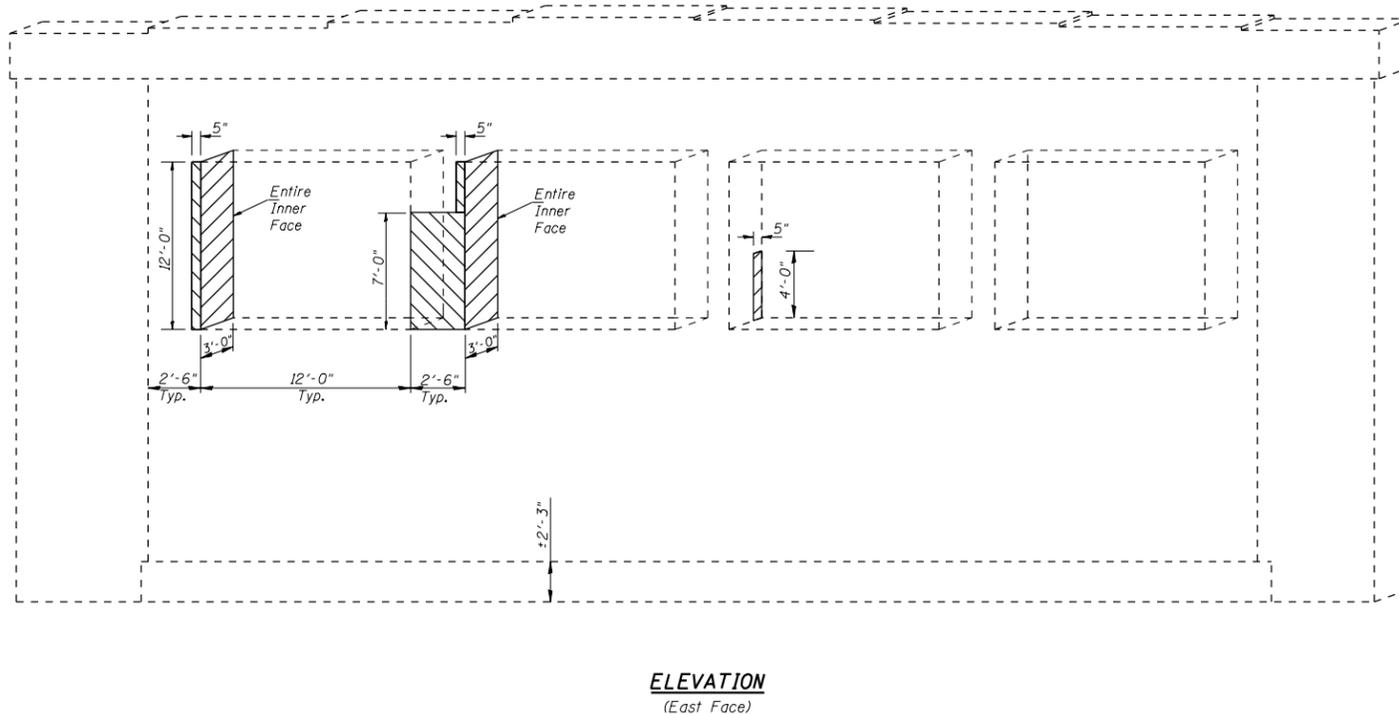
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER 4 STA. 21 + 88.83  
S.N. 090-0037**

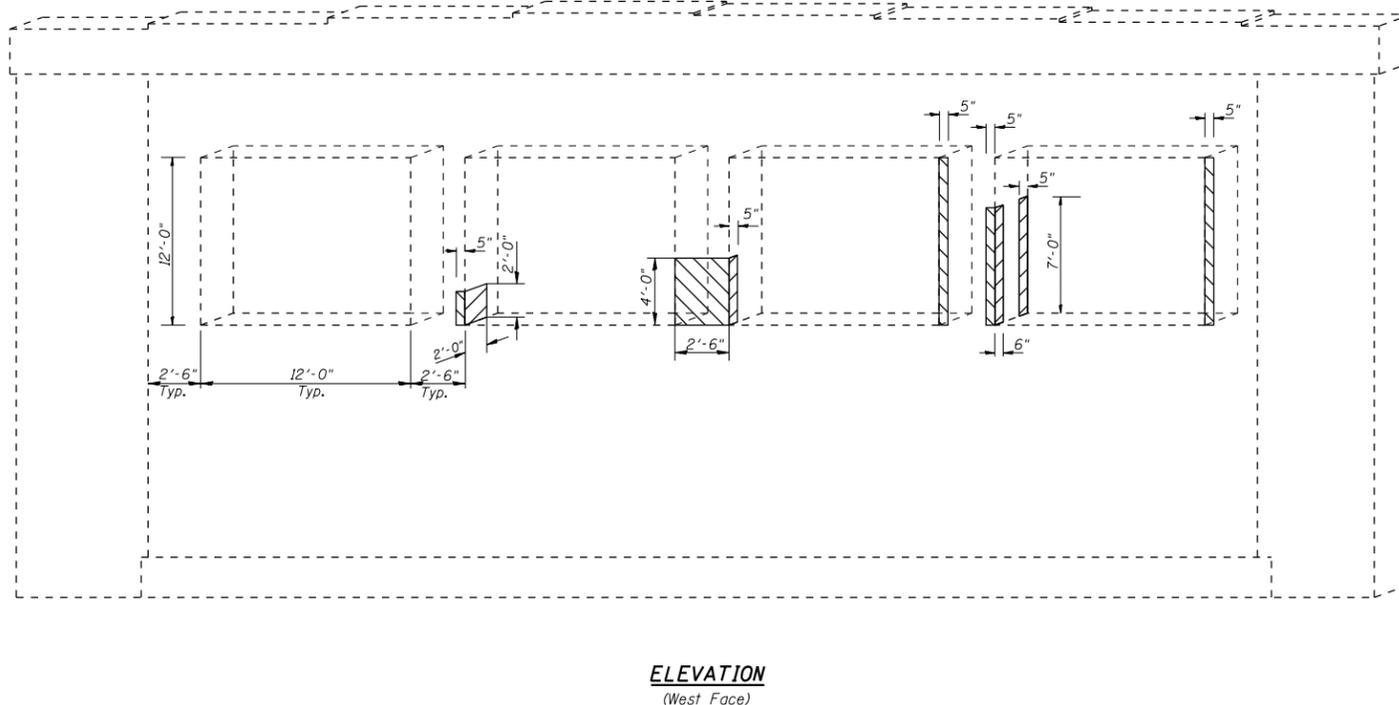
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	(104VB-BR)BRR	TAZEWELL	20	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E14	

Temporary Shoring and Cribbing (1 Each)



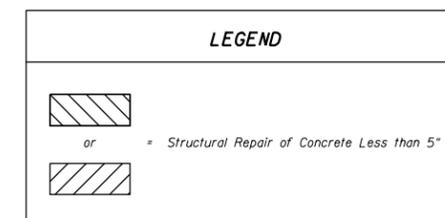
Temporary Shoring and Cribbing (1 Each)



**NOTE:**  
Clean existing reinforcement and incorporate into new construction.  
(Typ. for all columns and bay repairs)

Dead Load, Live Load, and Impact Reactions  
For Temporary Shoring and Cribbing

	Pier 3 Span 3 (kips)	Pier 3 Span 4 (kips)	Pier 5 (kips)
R DL	49.8	49.2	114.4
R LL	48.5	48.5	61.3
R Impact	11.5	11.5	7.8
R Total	109.8	109.2	183.5



MODEL: SHORING.MXD  
FILE: SHORING.PLT

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	DRAWN -	REVISED -
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PLOT DATE = \$DATES	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

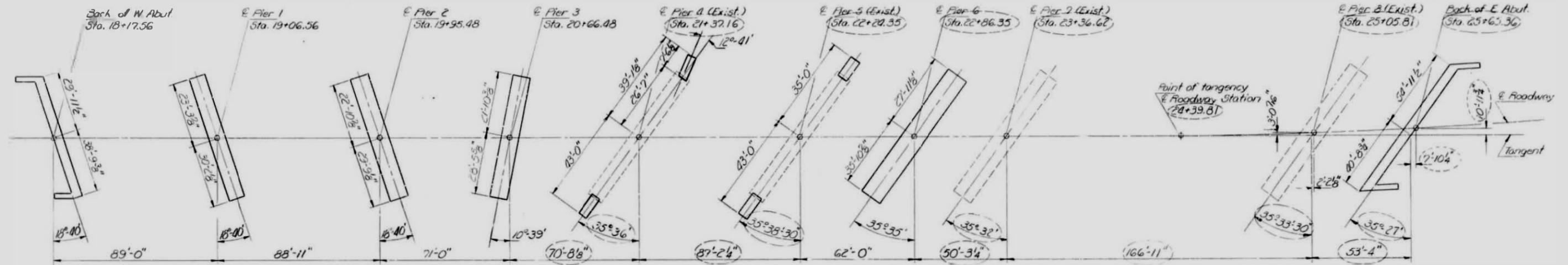
**PIER 5 STA. 22 + 24.35**  
**S.N. 090-0037**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	(104VB-BR)BRR	TAZEWELL	20	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68E14	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 30 64 SHEETS
6757	BR	TAZEWELL	89	28	
F.A.U. R.T. NO. 7		ILLINOIS	FED. AID PROJECT		



PLAN OF FOOTINGS

DESIGNED <i>Mary Bloxdorf</i>	EXAMINED <i>James T. Robinson</i>
CHECKED <i>Lance Field</i>	PASSED <i>James T. Robinson</i>
DRAWN <i>Joe Sutherland</i>	APPROVED <i>James T. Robinson</i>
CHECKED <i>Lance Field</i>	DIRECTOR OF HIGHWAYS

Dec 28 1984

AS REVISED 9-30-85 T.E.A.  
FOOTING LAYOUT  
FAU. RT. 6757 SEC. (104VB) BR  
TAZEWELL COUNTY  
STATION 21+88.83

MODEL: SMOBELNAMES  
FILE: NAME\$.STL

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN -	REVISED -
PLOT DATE = \$DATE\$	CHECKED -	REVISED -
	DATE -	REVISED -

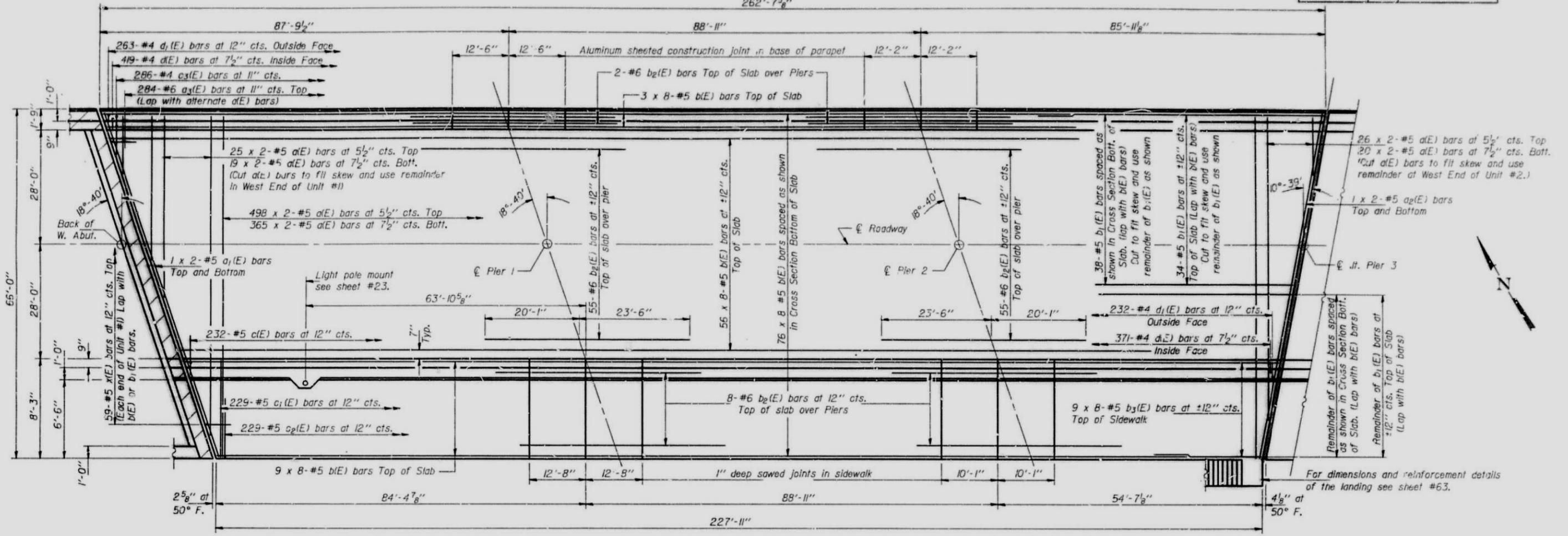
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS FOR INFORMATION ONLY				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

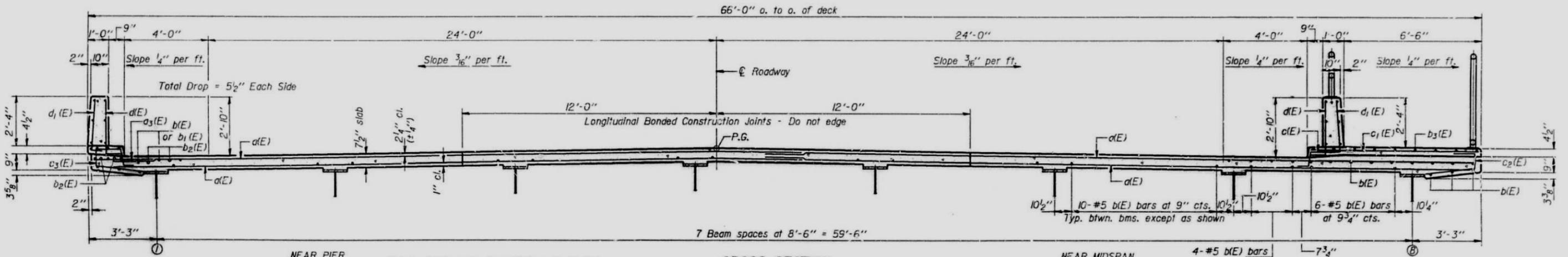
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	(104VB-BR)BRR	TAZEWELL	20	10
CONTRACT NO. 68E14				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	DESIGNER	CHECKER	SCALE	SHEET NO.
10/1/54	TAZEWELL	89	39	64 SHEETS



PLAN



CROSS SECTION  
(Looking East)

DESIGNED *Louise Field*  
CHECKED *Mary Bloxdorf*  
DRAWN *Joe Sutherland*  
CHECKED *MHB*

EXAMINED *James J. Robinson*  
PASSED *James J. Robinson*  
APPROVED *James J. Robinson*  
DIRECTOR OF HIGHWAYS

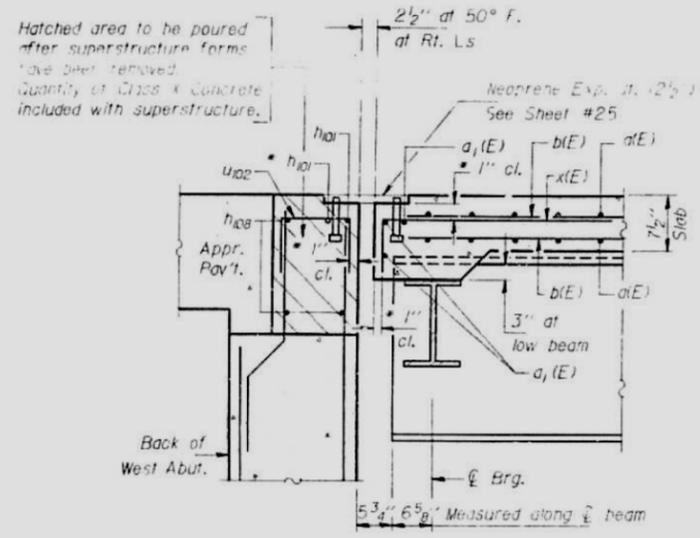
DEC 22 1954

Notes: Minimum lap for #5 bars is 2'-2".  
For drain spacing see sheet #2.  
See sheets #19 thru 24 for superstructure details and Bill of Material.  
Reinforcement bars designated (E) shall be epoxy coated.  
Bars indicated thus 9 x 8-#5 etc. indicates 9 lines of bars with 8 lengths per line.  
Cut b<sub>1</sub>(E) and b<sub>2</sub>(E) bars as required to miss drainage scuppers.

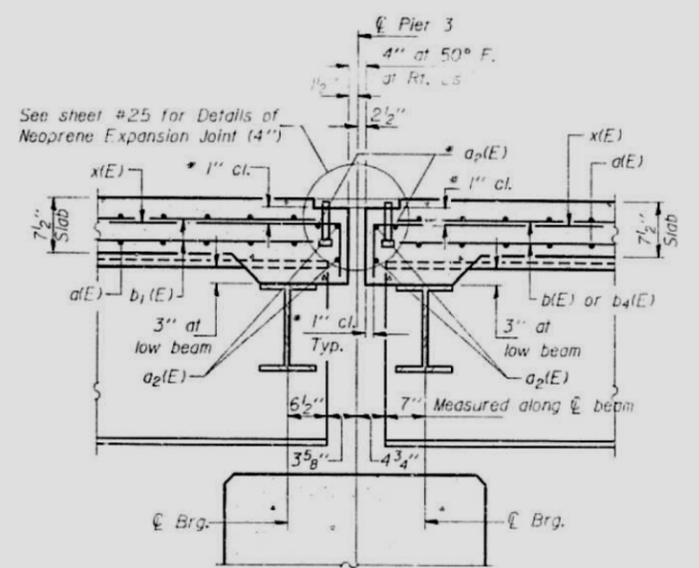
**SUPERSTRUCTURE - UNIT #1**  
**F.A.U. RT. 6757 SEC. (104VB)BR**  
**TAZEWELL COUNTY**  
**STATION 21+88.83**

USER NAME = SUSERS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE PLANS FOR INFORMATION ONLY	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = SCALES	DRAWN -	REVISED -			6757	(104VB-BR)BR	TAZEWELL	20	11	
PLOT DATE = SDATES	CHECKED -	REVISED -			CONTRACT NO. 68E14					
	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

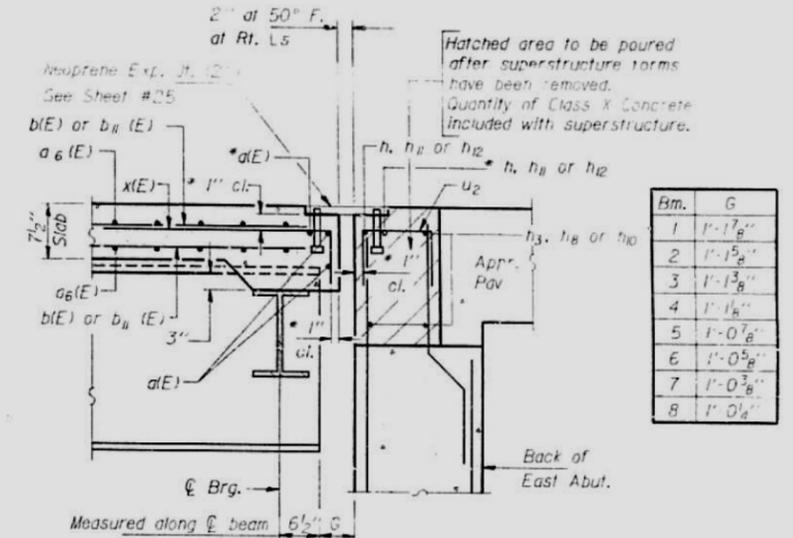




**SECTION THRU WEST ABUT.**  
(Looking North)

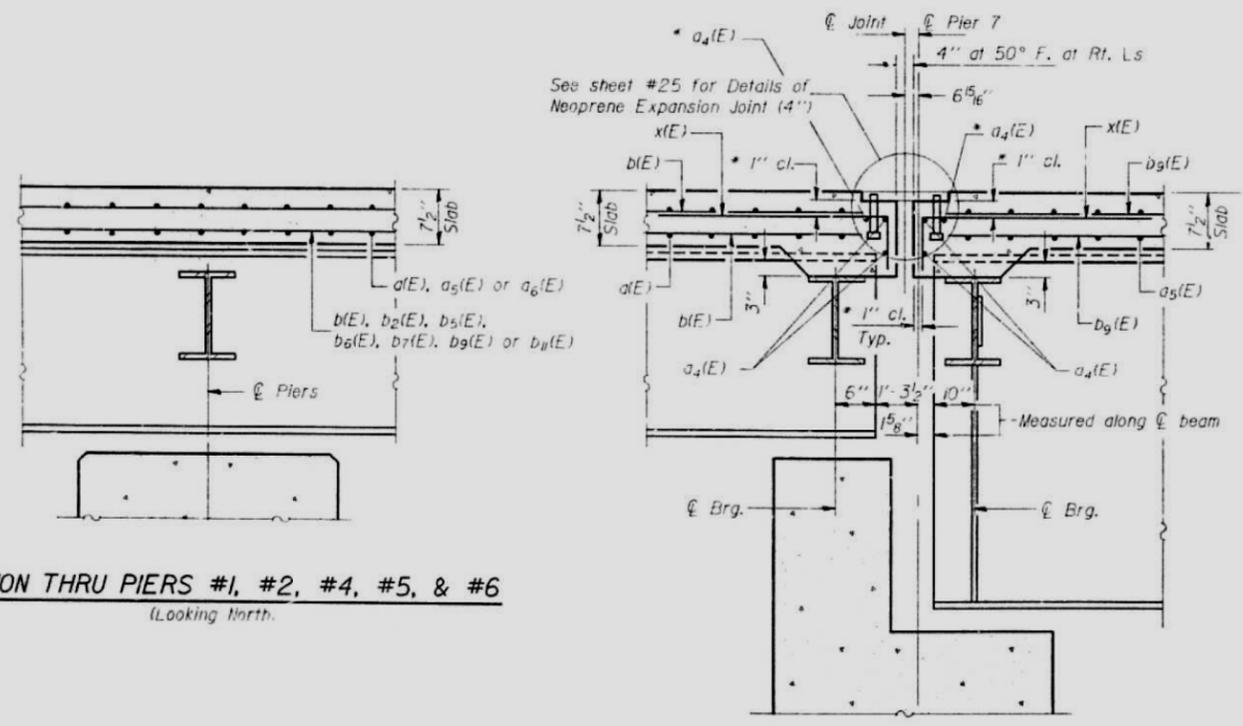


**SECTION THRU PIER #3**  
(Looking North)

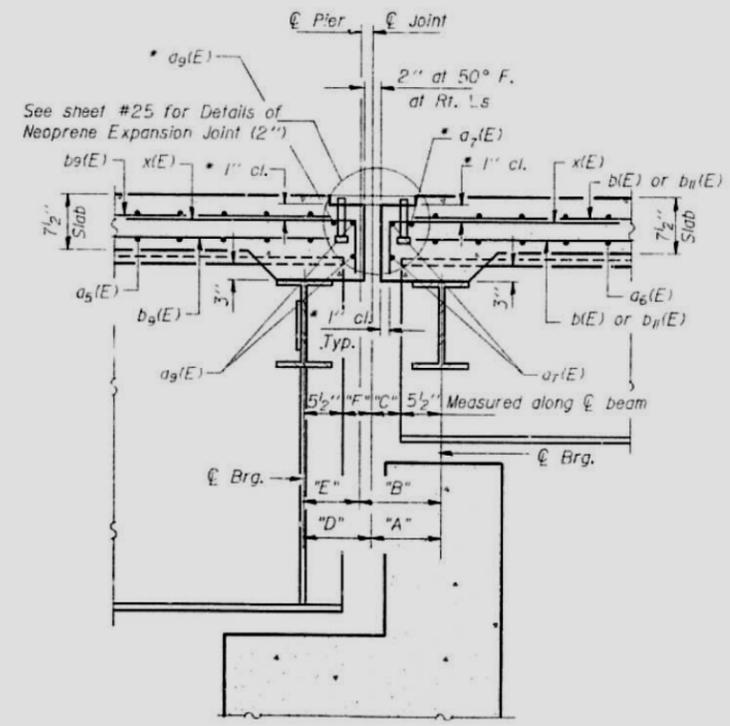


**SECTION THRU EAST ABUT.**  
(Looking North)

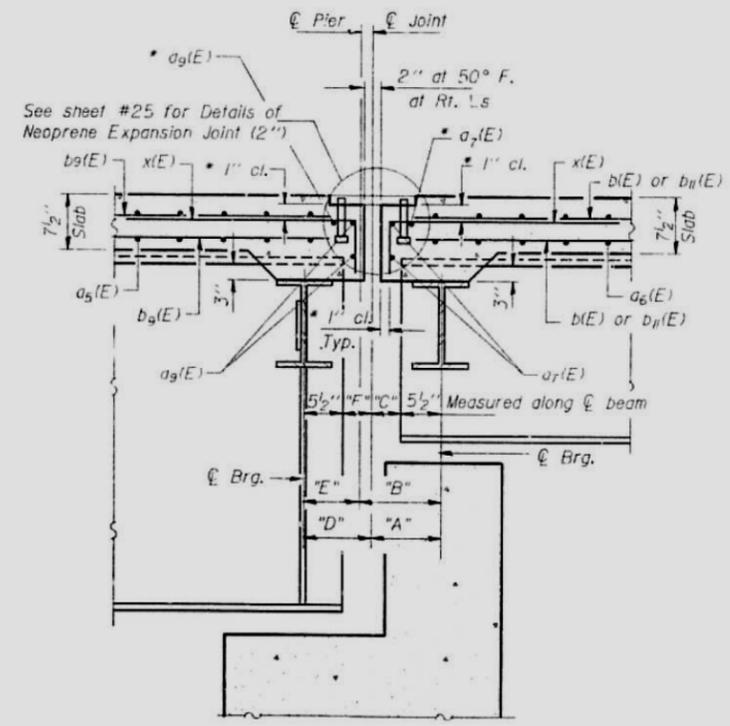
Bar	G
1	1'-1 7/8"
2	1'-1 5/8"
3	1'-1 3/8"
4	1'-1 1/8"
5	1'-0 7/8"
6	1'-0 5/8"
7	1'-0 3/8"
8	1'-0 1/8"



**SECTION THRU PIERS #1, #2, #4, #5, & #6**  
(Looking North)



**SECTION THRU PIER #7**  
(Looking North)  
Horizontal dimensions are along  $\bar{c}$  beam except as noted.



**SECTION THRU PIER #8**  
(Looking North)  
Horizontal dimensions are along  $\bar{c}$  beam except as noted.

**TABLE OF "A" THRU "F" DIMENSIONS**

Bar	"A"	"B"	"C"	"D"	"E"	"F"
1	1'-4 1/4"	1'-7 3/4"	10 3/4"	1'-4 1/2"	1'-1"	11"
2	1'-4"	1'-7 5/8"	10 1/2"	1'-4 3/8"	1'-0 3/4"	10 7/8"
3	1'-3 7/8"	1'-7 3/8"	10 3/8"	1'-4 1/8"	1'-0 5/8"	10 5/8"
4	1'-3 3/4"	1'-7 1/4"	10 1/4"	1'-4"	1'-0 1/2"	10 1/2"
5	1'-3 5/8"	1'-7"	10 5/8"	1'-3 7/8"	1'-0 1/2"	10 3/8"
6	1'-3 1/2"	1'-6 7/8"	10"	1'-3 3/4"	1'-0 3/8"	10 1/4"
7	1'-3 3/8"	1'-6 3/4"	9 7/8"	1'-3 5/8"	1'-0 1/4"	10 1/8"
8	1'-3 1/4"	1'-6 5/8"	9 3/4"	1'-3 1/2"	1'-0 1/8"	10"

\* Place these bars in back of anchor bolts as shown if required to maintain 1" cl. (\*0-5/8"). Anchor bolts should be tied to these bars.

DESIGNED: MHB, RAB, LK  
CHECKED: MHB, RAB, LK  
DRAWN: Mercado  
CHECKED: MHB, RAB, LK

Dec 28 1984  
EXAMINED: James J. Robinson  
PASSED: James J. Robinson  
APPROVED: James J. Robinson  
DIRECTOR OF HIGHWAYS

MODEL: SHODLEMAN  
FILE: 68E14.DWG

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = \$SCALES	DRAWN -	REVISED -
PLOT DATE = \$DATES	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

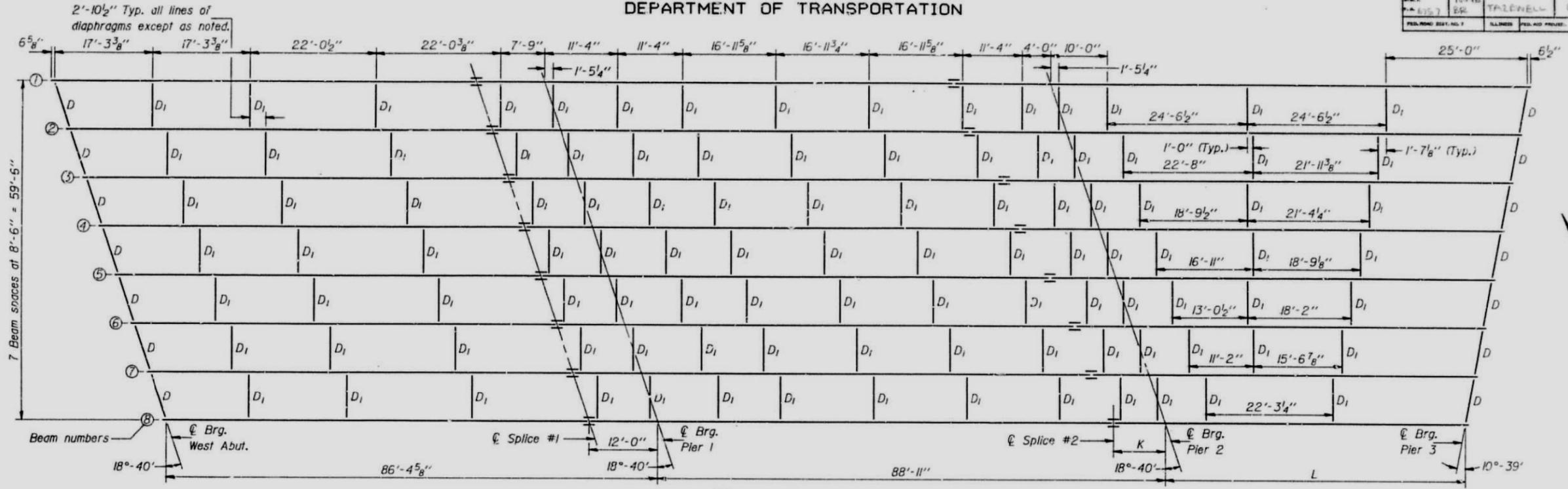
STRUCTURE PLANS  
FOR INFORMATION ONLY

SCALE: SHEET OF SHEETS STA. TO STA.

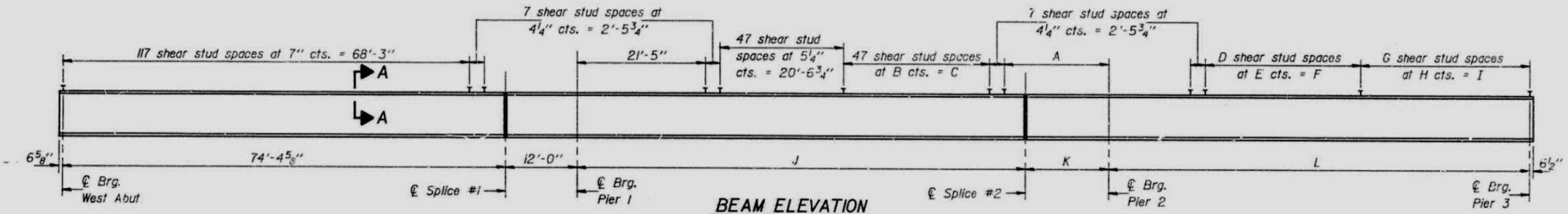
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	(104VB-BR)BR	TAZEWELL	20	13
CONTRACT NO. 68E14			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEETS
F.A.U. RT. 6757	SEC. 104VB	TAZEWELL	89	55
F.A.U. RT. 6757		TAZEWELL COUNTY		
SECTION 104VB		STATION 21+88.83		



FRAMING PLAN



BEAM ELEVATION

All Beams are W36x182

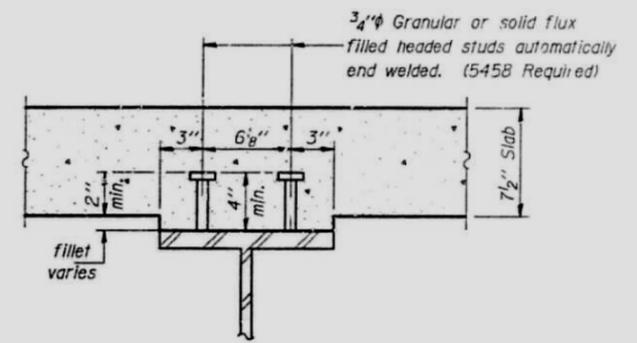
TABLE OF DIMENSIONS

Beam	A	B	C	D	E	F	G	H	I	J	K	L
1	20'-5 1/4"	5 1/2"	21'-6 1/2"	56	7"	32'-8"	58	7"	33'-10"	71'-9"	17'-2"	84'-1"
2	20'-5 1/4"	5 1/2"	21'-6 1/2"	53	7"	30'-11"	55	7"	32'-1"	71'-9"	17'-2"	79'-7 3/8"
3	17'-6"	6 1/4"	24'-5 3/4"	47	7"	27'-5"	52	7"	30'-4"	75'-0 1/2"	13'-10 1/2"	75'-1 3/4"
4	17'-6"	6 1/4"	24'-5 3/4"	47	6 5/8"	25'-11 3/8"	49	7"	28'-7"	75'-0 1/2"	13'-10 1/2"	70'-8 1/2"
5	14'-6 3/4"	7"	27'-5"	47	5 5/8"	22'-0 3/8"	47	6 3/4"	26'-5 1/4"	77'-4 1/4"	11'-6 3/4"	66'-2 1/2"
6	14'-0 1/8"	7 1/8"	27'-10 1/8"	47	5"	19'-7"	47	6 1/4"	24'-5 3/4"	78'-10 3/8"	10'-0 5/8"	61'-8 1/2"
7	14'-0 1/8"	7 1/8"	27'-10 1/8"	47	4 5/8"	18'-1 3/8"	47	5 3/4"	22'-6 1/4"	78'-10 3/8"	10'-0 5/8"	57'-3 1/4"
8	12'-7 1/4"	7 1/2"	29'-4 1/2"	47	3 1/4"	12'-8 3/4"	47	5 3/8"	21'-0 5/8"	79'-10 1/4"	9'-0 1/8"	52'-9 3/8"

\* TOP OF FLANGE ELEVATIONS

Beam	W. Abut.	Splice #1	Pier 1	Splice #2	Pier 2	Pier 3
1	496.42	499.81	500.21	502.77	503.17	505.10
2	496.71	500.07	500.47	503.00	503.40	505.22
3	496.99	500.32	500.71	503.31	503.63	505.33
4	497.27	500.57	500.96	503.52	503.84	505.44
5	497.31	500.59	500.96	503.56	503.83	505.31
6	497.32	500.57	500.94	503.55	503.77	505.16
7	497.33	500.54	500.91	503.49	503.71	504.99
8	497.29	500.48	500.84	503.41	503.61	504.79

\* For fabrication only.



SECTION A-A

DESIGNED *Lucas Field*  
CHECKED *Mary Blandorf*  
DRAWN *Joe Sutherland*  
CHECKED *MHB*

EXAMINED *James J. Robinson*  
PASSED *James J. Robinson*  
APPROVED *James J. Robinson*

Dec 28 1984  
DIRECTOR OF HIGHWAYS

Note: Work this sheet with sheet #31.  
All beams and splice plate material shall be AASHTO M223, Grade 50. The diaphragms and connecting angles shall be AASHTO M183.

STRUCTURAL STEEL - UNIT #1  
F.A.U. RT. 6757 SEC. (104VB)BR  
TAZEWELL COUNTY  
STATION 21+88.83

MODEL, MODEL NAMES, FILE NAMES, STYLES	USER NAME = SUSERS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE PLANS FOR INFORMATION ONLY	F.A.U. RTE. 6757	SECTION (104VB-BR)BR	COUNTY TAZEWELL	TOTAL SHEETS 20	SHEET NO. 14
	PLOT SCALE = SCALES	CHECKED -	REVISED -	SCALE:	SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 68E14		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	POST	SHEET NO. 320 64 SHEETS
F.A.U. 6757	104VB BR	TAZEWELL	89	57	
FED. ROAD DIST. NO. 7	BLANDED	FED. AID PROJECT			

\*\* Typ. Except for Beam 1.

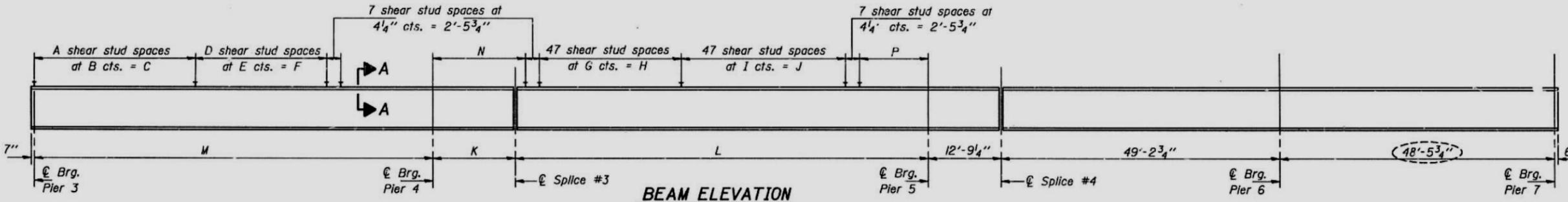
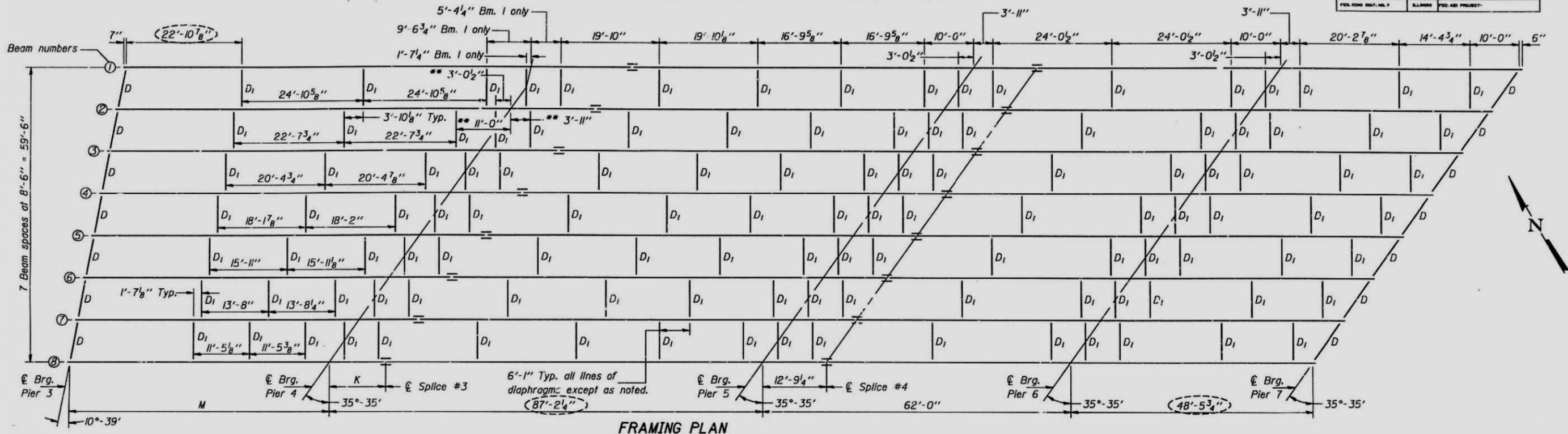


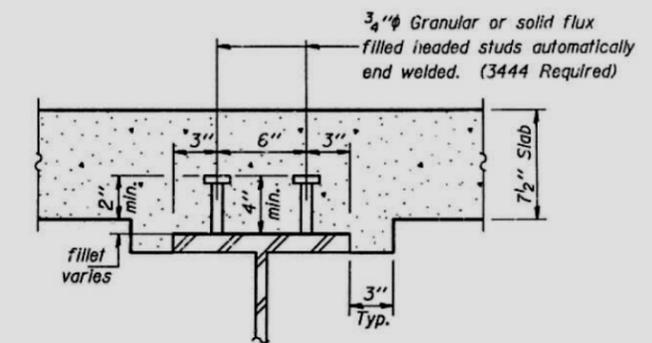
TABLE OF DIMENSIONS

Beam	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
1	58	7"	33'-10"	53	7"	30'-11"	5 3/8"	21'-0 5/8"	7 3/8"	28'-10 5/8"	19'-9"	68'-10 1/2"	82'-2 1/8"	21'-6 1/2"	12'-2 1/4"
2	54	7"	31'-6"	50	7"	29'-2"	5 3/4"	22'-6 1/4"	7 3/8"	28'-10 5/8"	17'-0"	70'-2 1/4"	74'-8 1/2"	18'-6 1/2"	12'-3 3/8"
3	52	7"	30'-4"	47	6 3/4"	26'-5 1/4"	6"	23'-6"	7 3/8"	28'-10 5/8"	15'-8 3/8"	71'-5 1/8"	75'-0 1/2"	17'-5 1/8"	12'-4 1/4"
4	49	7"	28'-7"	47	6"	23'-6"	6 3/8"	24'-11 5/8"	7 3/8"	28'-10 5/8"	14'-5 3/4"	72'-8 1/2"	70'-2 3/4"	16'-3 1/4"	12'-1 1/4"
5	47	6 3/4"	26'-5 1/4"	47	5 1/2"	21'-6 1/2"	6 3/8"	25'-11 5/8"	7 1/4"	28'-4 3/4"	13'-4 1/4"	73'-10 1/8"	65'-9"	6'-1 5/8"	12'-9"
6	47	4 3/4"	18'-7 1/4"	47	6 1/4"	24'-5 3/4"	6 1/8"	26'-11 1/8"	7 1/4"	28'-4 3/4"	12'-6 3/4"	74'-7 1/2"	61'-3 3/8"	14'-4 1/4"	12'-6 5/8"
7	47	4 1/2"	17'-7 1/2"	47	5 1/4"	20'-6 3/4"	7"	27'-5"	7 1/4"	28'-4 3/4"	11'-11 3/8"	75'-2 1/8"	56'-9 3/8"	13'-8 1/8"	12'-8 1/8"
8	47	4"	15'-8"	47	4 1/4"	16'-7 3/4"	7 1/8"	27'-10 1/8"	7 1/4"	28'-4 3/4"	11'-5 1/8"	75'-9 1/8"	52'-3 1/2"	13'-2 5/8"	12'-8 1/2"

\* TOP OF FLANGE ELEVATIONS

Beam	€ Brg. Pier 3	€ Pier 4	Splice #4	€ Pier 5	Splice #5	€ Pier 6	€ Brg. Pier 7
1	505.13	505.67	505.79	505.39	505.32	504.34	503.37
2	505.25	505.81	505.94	505.59	505.53	504.64	503.74
3	505.36	505.93	506.06	505.78	505.73	504.91	504.09
4	505.47	506.05	506.17	505.95	505.92	505.17	504.42
5	505.34	505.91	506.05	505.89	505.87	505.21	504.56
6	505.18	505.75	505.88	505.80	505.78	505.21	504.65
7	505.02	505.58	505.70	505.69	505.69	505.19	504.70
8	504.82	505.36	505.48	505.54	505.55	505.10	504.65

\* For fabrication only.



DESIGNED L.W.K.  
CHECKED M.H.B.  
DRAWN Joe Sutherland  
CHECKED M.H.B.

Dec. 28, 1984  
EXAMINED James J. Robinson  
PASSED James J. Robinson  
APPROVED James J. Robinson  
DIRECTOR OF HIGHWAYS

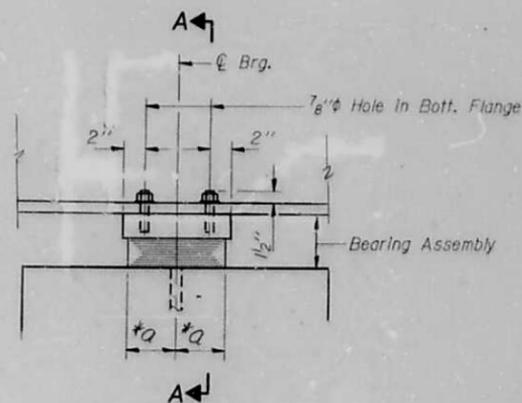
Note: Work this sheet with sheet #33.  
All beams and splice plate material shall be AASHTO M223, -Grade 50. The diaphragms and connecting angles shall be AASHTO M183.

AS REVISED 9-30-85 T.E.A.  
STRUCTURAL STEEL - UNIT #2  
F.A.U. RT. 6757 SEC. (104VB)BR  
TAZEWELL COUNTY  
STATION 21+88.83

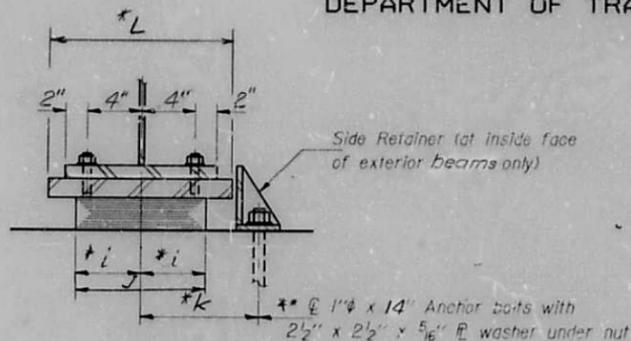


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

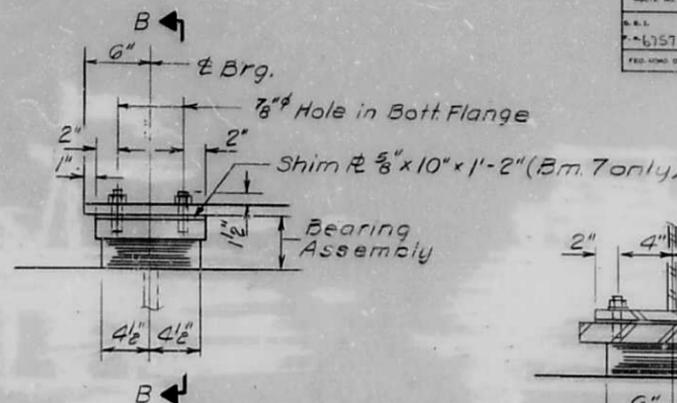
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 40
6757	BR	TAZEWELL	89	65	64 SHEETS
FED. ROAD DIST. NO. 7	BLINDS	FED. AID PROJECT			



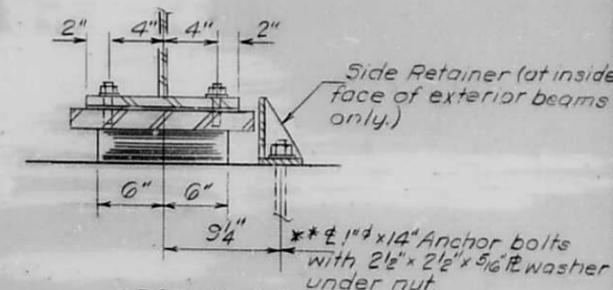
ELEVATION AT PIERS 4 & 5



SECTION A-A



ELEVATION AT PIER 7-UNIT 2

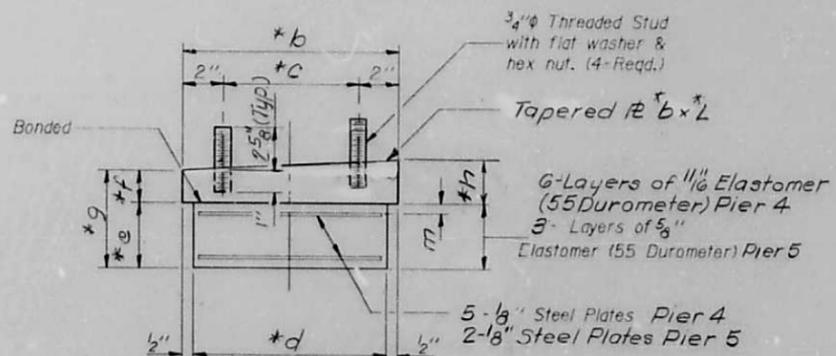


SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.

\*\* Notes: Anchor bolts at fixed bearings may be built into the masonry. See sheet #43 for Anchor Bolt Installation.

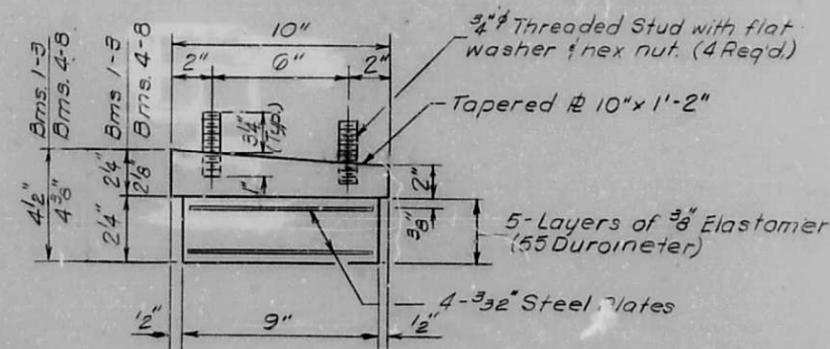
TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Pier 4 Looking North  
Pier 5 Looking South

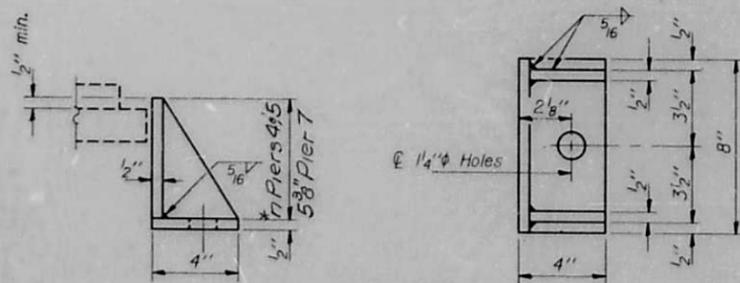
Note: Shim plates shall not be placed under Bearing Assembly.



BEARING ASSEMBLY  
(Looking North)

\* TABLE OF DIMENSIONS

Dimension	a	b	c	d	e	f	g	h	i	j	k	L	m	n
Pier 4	8"	17"	13"	12"	4 3/4"	3"	7 3/4"	3 1/8"	9"	18"	12 1/4"	1'-8"	11 1/2"	7 1/8"
Pier 5	6 3/4"	14 1/2"	10 1/2"	13 1/2"	2 1/8"	2 3/8"	5"	3"	3 1/2"	17"	11 1/4"	1'-7"	5 3/8"	5 1/8"



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

DESIGNED <i>Louise Kidd</i>	EXAMINED <i>James J. Rayburn</i>
CHECKED <i>Mary Bloxdorf</i>	PASSED <i>James J. Rayburn</i>
DRAWN <i>F.M.</i>	APPROVED <i>James J. Rayburn</i>
CHECKED <i>MHB</i>	DIRECTOR OF HIGHWAYS

I-2-EI 12-1-83

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	24

BEARING DETAILS

F.A.U. RTE. 6757 SEC. (104VB) BR

TAZEWELL COUNTY

STA. 21+88.83

MODEL: SHORDELNAMES  
FILE: I-2-EI-83

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = SCALES	DRAWN -	REVISED -
PLOT DATE = SDATES	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS  
FOR INFORMATION ONLY

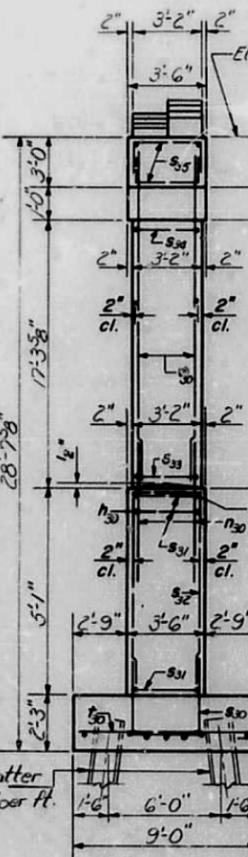
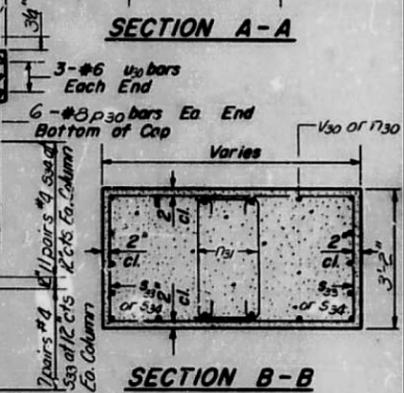
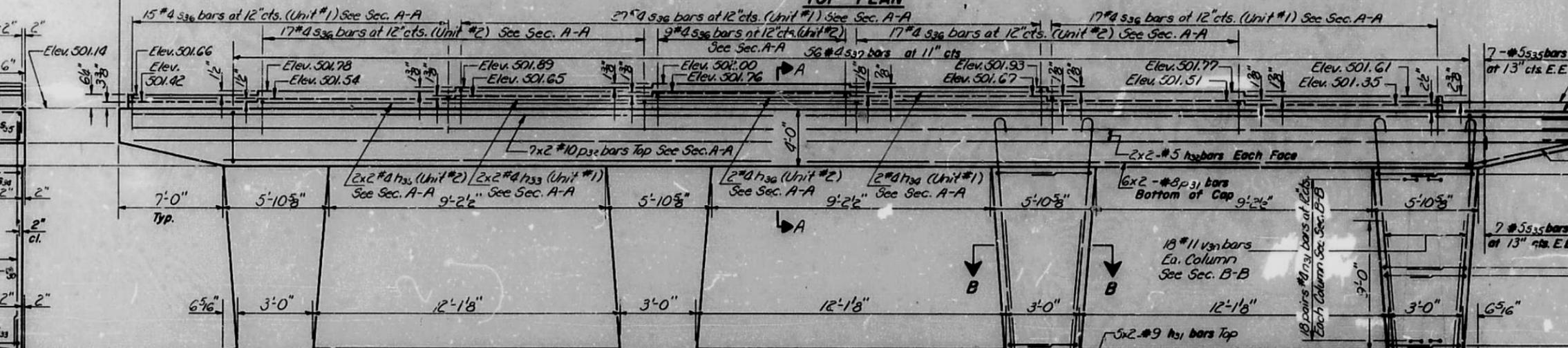
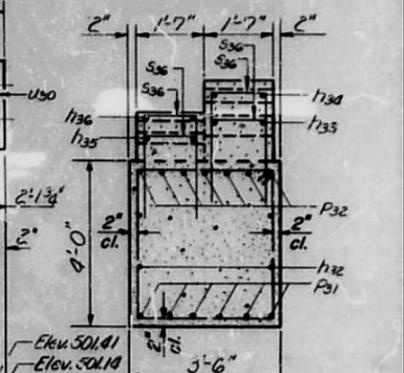
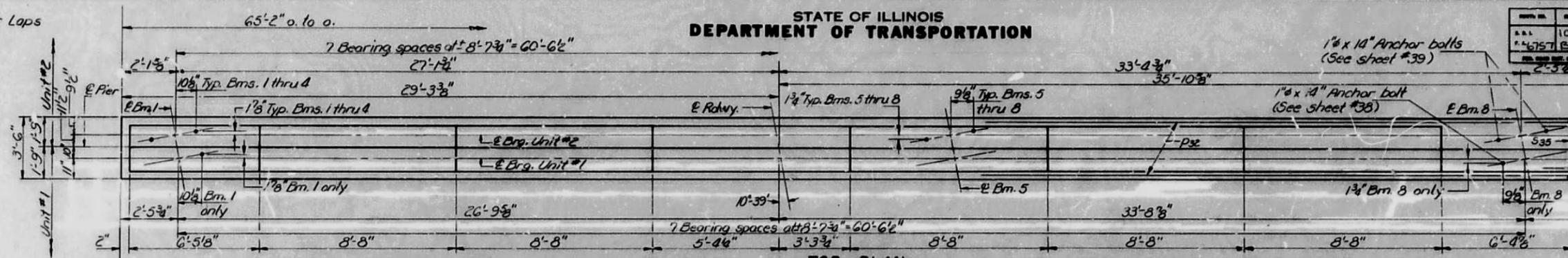
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	(104VB-BR)BR	TAZEWELL	20	17
CONTRACT NO. 68E14				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
6757 BR	104VB	TAZEWELL	89	76
				64 SHEETS

Minimum Bar Laps  
#4 = 1'-8"  
#5 = 2'-2"  
#8 = 4'-6"  
#9 = 5'-9"  
#10 = 7'-3"



BILL OF MATERIAL

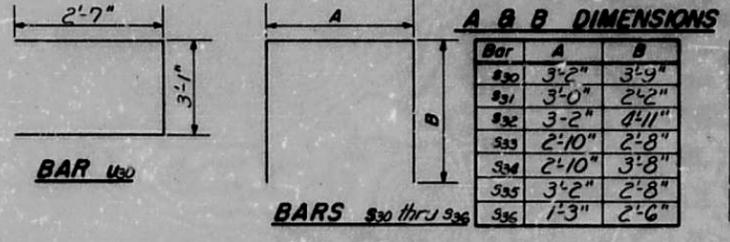
Bar No.	Size	Length	Shape
h30	#5	25'-8"	—
h31	#9	27'-5"	—
h32	#5	33'-7"	—
h33	#4	30'-1"	—
h34	#8	25'-9"	—
h35	#4	22'-5"	—
h36	#4	8'-5"	—
h30	#11	12'-7"	—
h31	#4	3'-10"	—
p30	#8	7'-0"	—
p31	#8	27'-10"	—
p32	#10	36'-1"	—
s30	#4	10'-8"	—
s31	#5	7'-4"	—
s32	#5	13'-0"	—
s33	#4	8'-2"	—
s34	#4	10'-2"	—
s35	#5	8'-6"	—
s36	#4	6'-3"	—
s37	#4	14'-5"	—
t30	#6	8'-9"	—
u30	#6	8'-3"	—
v30	#11	20'-10"	—
w30	#5	26'-2"	—

Class X Concrete Cu. Yds. 143.2  
Reinforcement Bars Lbs. 23,110  
Steel Piles HP10x42 Lin. Ft. 480

**PILE DATA**  
Type - Steel HP10x42  
Capacity - Drive to Refusal  
Est. Length - 30'  
No. Req'd - 16

DESIGNED *Lone Bird*  
CHECKED *Mary Blakdorf*  
DRAWN *Joe Sutherland*  
CHECKED *M.H.B.*

Dec. 28 1984  
EXAMINED *James J. Rabin*  
PASSED *James J. Rabin*  
APPROVED *James J. Rabin*  
DIRECTOR OF HIGHWAYS



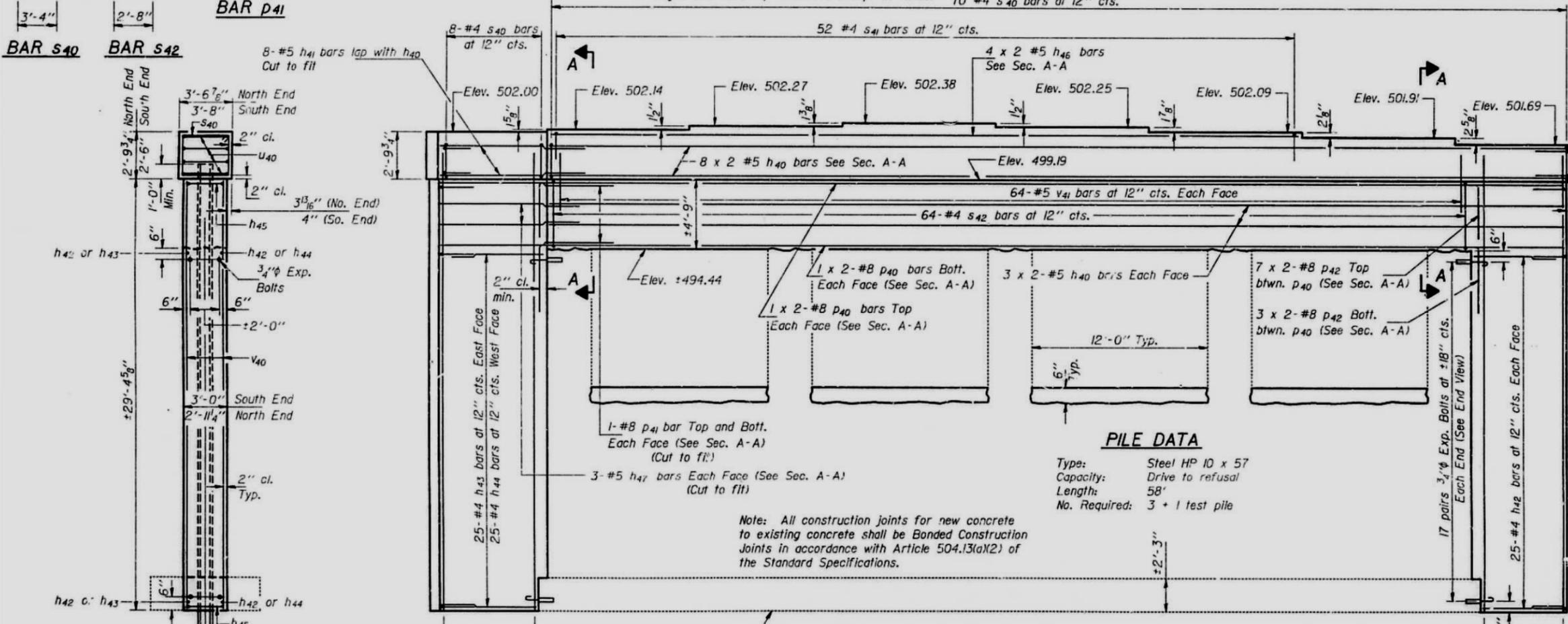
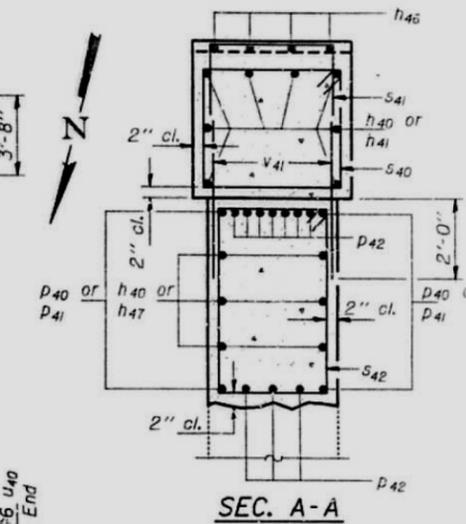
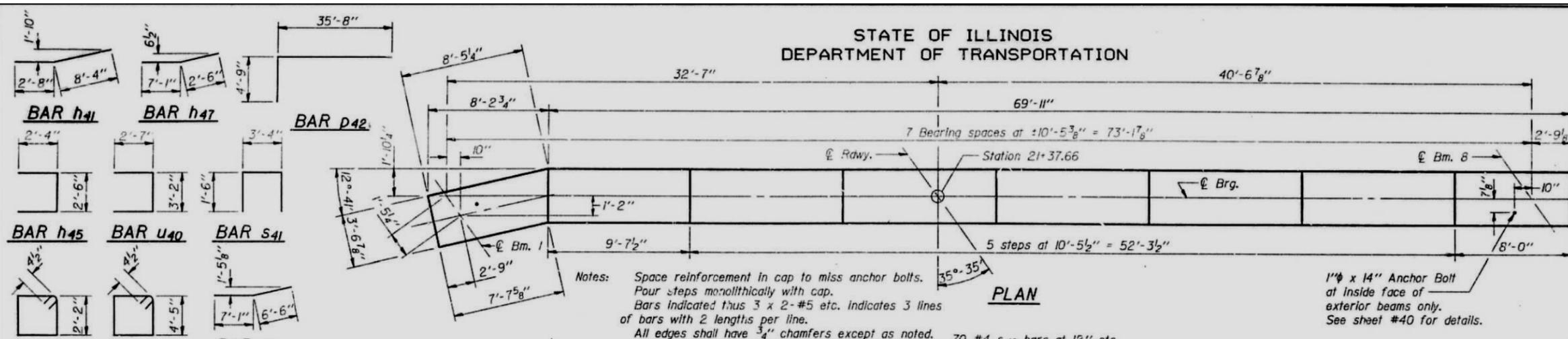
Bar	A	B
s30	3'-2"	3'-9"
s31	3'-0"	2'-2"
s32	3'-2"	4'-11"
s33	2'-10"	2'-8"
s34	2'-10"	3'-8"
s35	3'-2"	2'-8"
s36	1'-3"	2'-6"

Note:  
Space reinforcement in cap to miss anchor bolts.  
Pour steps monolithically with cap.  
All edges shall have standard 3/8" chamfers except as noted.  
All bars indicated thus 5x2 #5 etc. indicates 5 lines of bars with 2 lengths per line.

PIER 3  
F.A.U. RT. 6757 SEC. (104VB) BR  
TAZEWELL COUNTY  
STATION 21+88.83

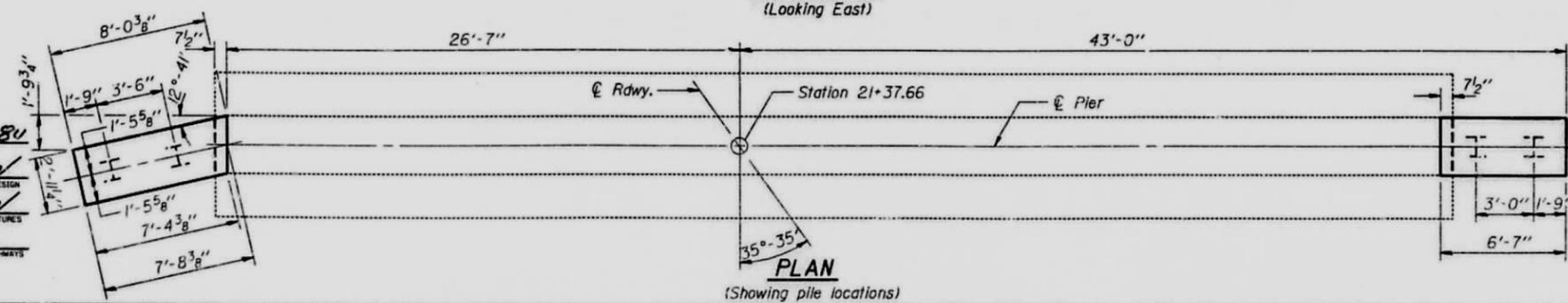
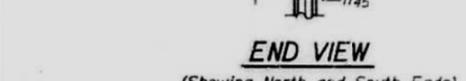
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	DATE	SCALE	SHEET NO.
6757	BR	TAZEWELL	89	78
				64 SHEETS



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h40	28	#5	35'-11"	
h41	8	#5	11'-0"	
h42	50	#4	6'-4"	
h43	25	#4	1'-1"	
h44	25	#4	6'-5"	
h45	60	#5	7'-2"	
h46	8	#5	26'-11"	
h47	6	#5	9'-7"	
p40	8	#8	37'-11"	
p41	4	#8	13'-7"	
p42	20	#8	40'-5"	
s40	78	#4	11'-9"	
s41	52	#4	6'-4"	
s42	64	#4	14'-11"	
u40	8	#6	8'-4"	
v40	30	#4	30'-10"	
v41	128	#5	4'-0"	
Class x Concrete	Cu. Yd.	112.4		
Reinforcement Bars	Pound	8150		
3/4" Expansion Bolts	Each	68		
Steel Piles HP 10x57	Lin. Ft.	174		
Test Pile Steel	Each	1		
HP 10x57				
Concrete Removal	Cu. Yd.	53		



DESIGNED Rick Brunette  
CHECKED Carlos A. Montes  
DRAWN Joe Sutherland  
CHECKED RAB CAM

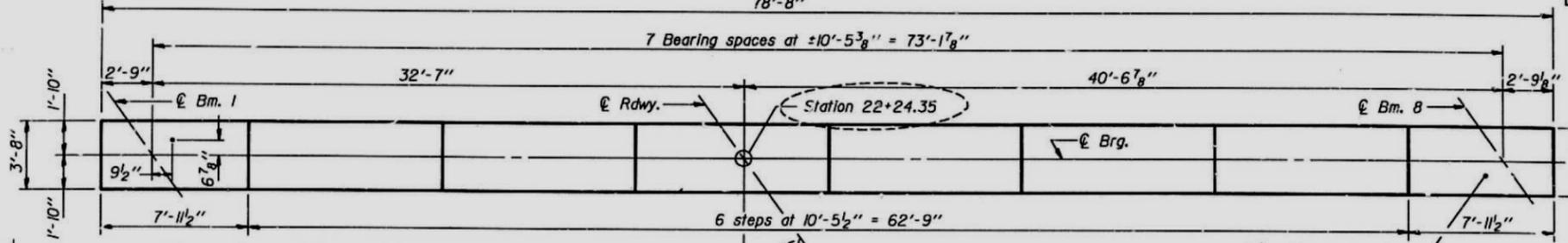
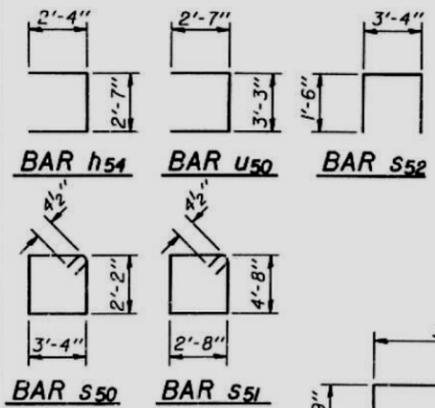
EXAMINED James J. Robinson  
PASSED James J. Robinson  
APPROVED [Signature]  
DIRECTOR OF HIGHWAYS

Dec 28 1980

**PIER 4**  
F.A.U. RT. 6757 SEC. (104VB) BR  
TAZEWELL COUNTY  
STATION 21+88.83

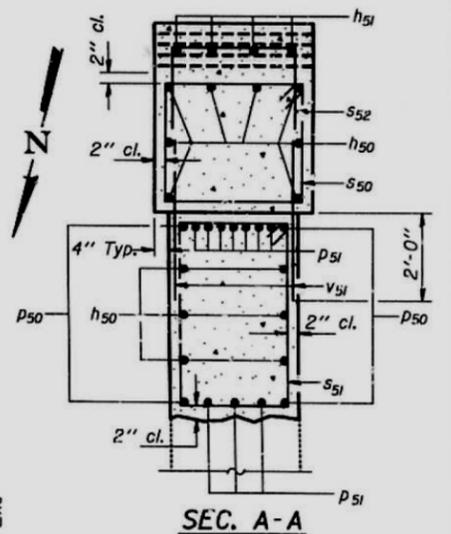
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
78'-8"

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
F.A.U. 6757	104VB BR	TAZEWELL	89	80
SHEET NO. 55a				
64 SHEETS				



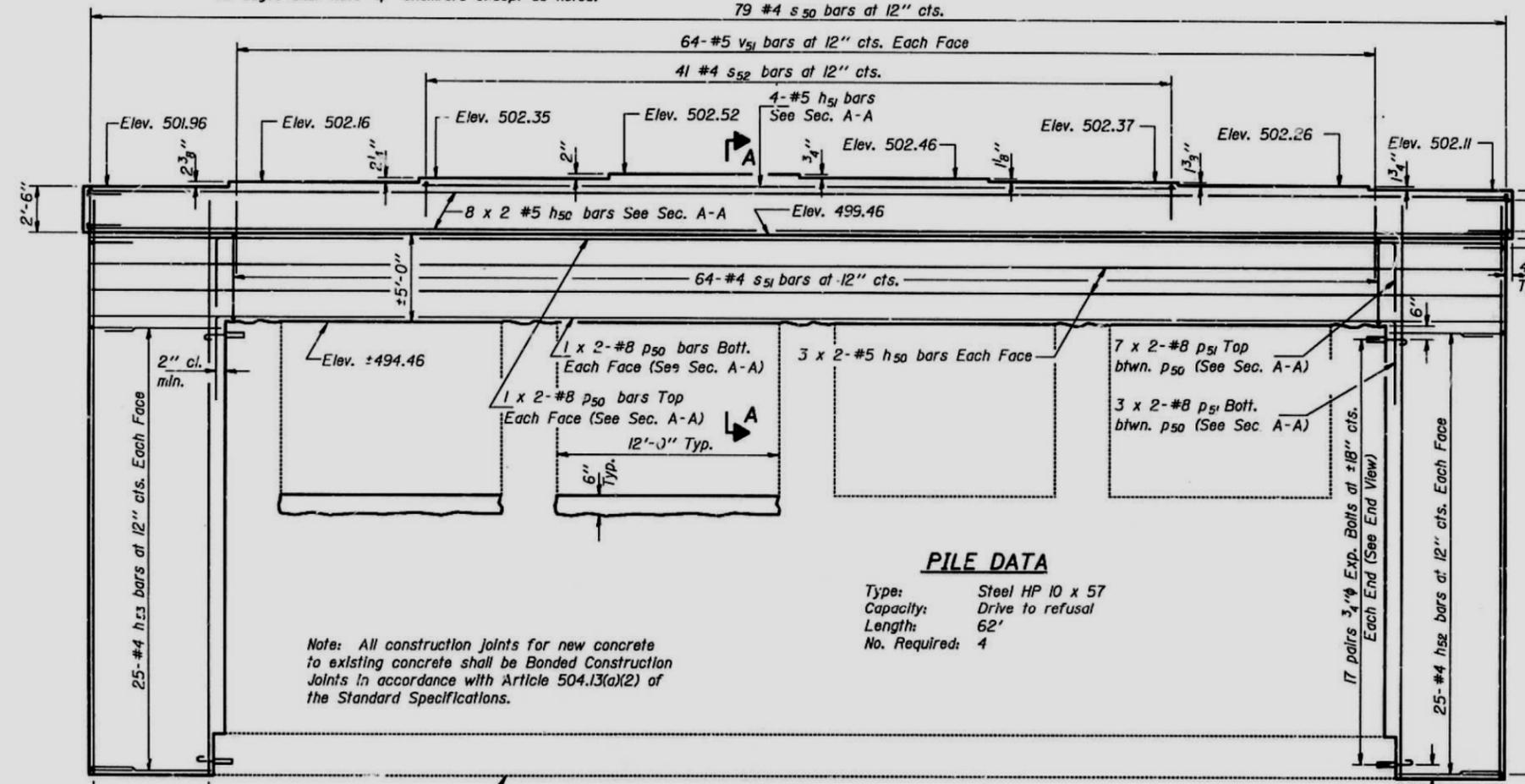
Notes: Space reinforcement in cap to miss anchor bolts.  
Pour steps monolithically with cap.  
Bars indicated thus 3 x 2-#5 etc. indicates 3 lines of bars with 2 lengths per line.  
All edges shall have 3/4" chamfers except as noted.

TOP PLAN



SEC. A-A

Notes: Work this sheet with sheet #54.  
Minimum bar laps:  
#5 bars = 2'-2"  
#8 bars = 6'-4"

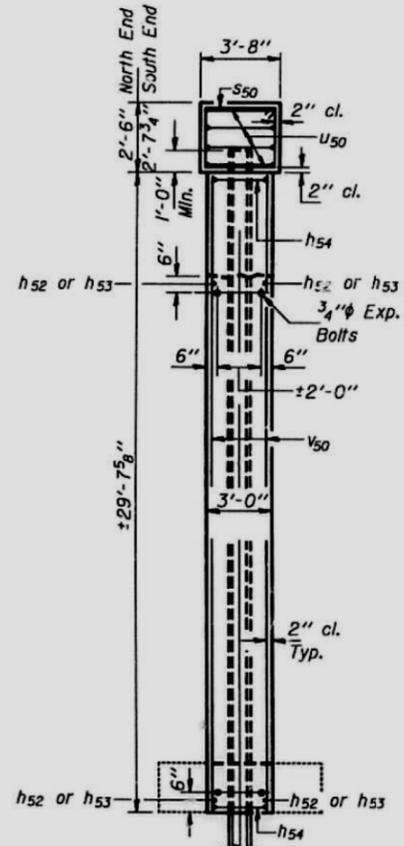


ELEVATION  
(Looking East)

Note: All construction joints for new concrete to existing concrete shall be Bonded Construction Joints in accordance with Article 504.13(a)(2) of the Standard Specifications.

PILE DATA

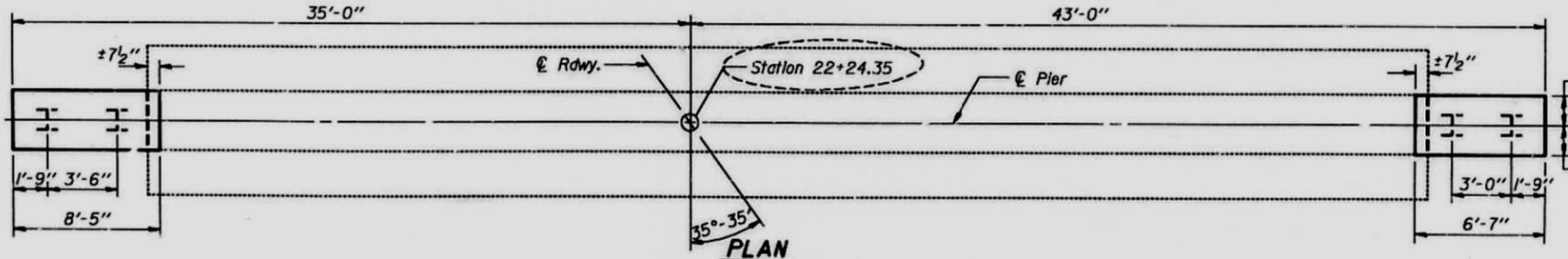
Type: Steel HP 10 x 57  
Capacity: Drive to refusal  
Length: 62'  
No. Required: 4



END VIEW  
(Showing North and South Ends)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h50	28	#5	40'-3"	—
h51	4	#5	41'-7"	—
h52	50	#4	5'-8"	—
h53	50	#4	7'-6"	—
h54	60	#4	7'-3"	□
p50	8	#8	42'-0"	—
p51	20	#8	40'-5"	□
s50	79	#4	11'-9"	□
s51	64	#4	15'-5"	□
s52	41	#4	6'-4"	□
u50	8	#6	8'-5"	□
v50	28	#4	30'-10"	—
v51	128	#5	4'-0"	—
Class x Concrete		Cu. Yd.	115.6	
Reinforcement Bars		Pound	7800	
3/4" Expansion Bolts		Each	68	
Steel Piles HP 10x57		Lin. Ft.	248	
Concrete Removal		Cu. Yd.	44	



PLAN  
(Showing pile locations)

DESIGNED RAB  
CHECKED C.A.M.  
DRAWN Joe Sutherland  
CHECKED RAB C.A.M.

Dec. 28, 1984  
EXAMINED  
PASSED  
APPROVED

AS REVISED 9-30-85 T.E.A.  
PIER 5  
F.A.U. RT. 6757 SEC. (104VB) BR  
TAZEWELL COUNTY  
STATION 21+88.83

MODEL: SMOBELMARTS  
FILE: SMOBELMARTS

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = SCALES	DRAWN -	REVISED -
PLOT DATE = SDATES	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS  
FOR INFORMATION ONLY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	(104VB-BR)BR	TAZEWELL	20	20
CONTRACT NO. 68E14				
ILLINOIS FED. AID PROJECT				