

05-24-13 SPECIAL LETTING ITEM 047

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

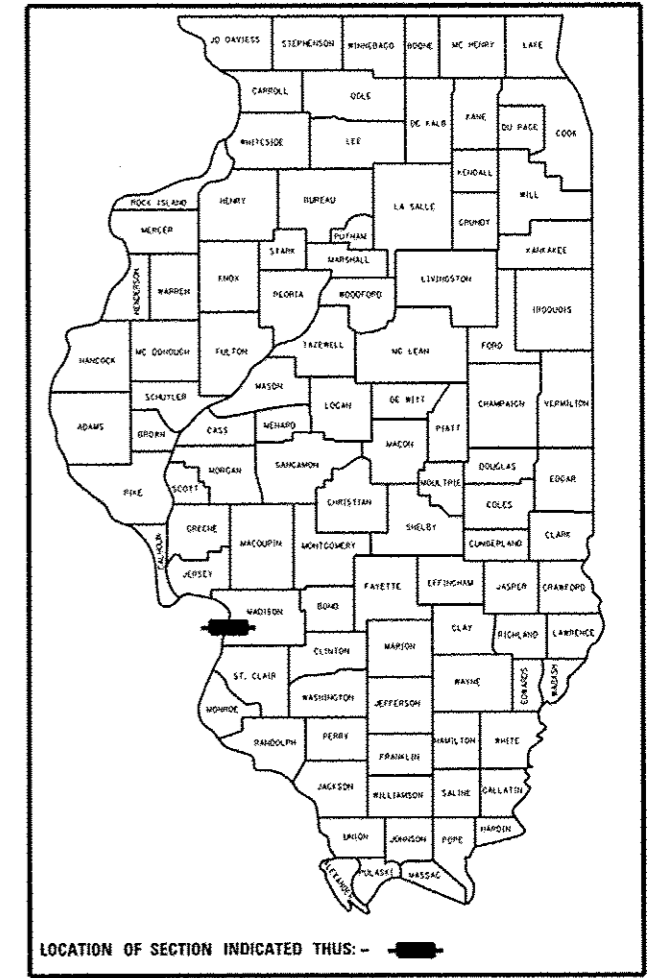
FAP ROUTE 304  
SECTION 100B-1DS-1  
US 67 (CLARK BRIDGE)  
REPAIRS AND DECK SEALING  
MADISON COUNTY  
C-98-034-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	1
		ILLINOIS	CONTRACT NO. 76E73	

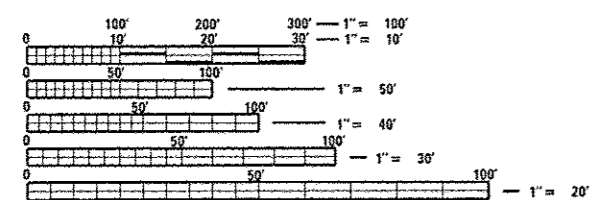
¥58+2=60

D-98-034-11

FOR INDEX OF SHEETS, SEE SHEET NO. 2



LOCATION OF SECTION INDICATED THIS: -



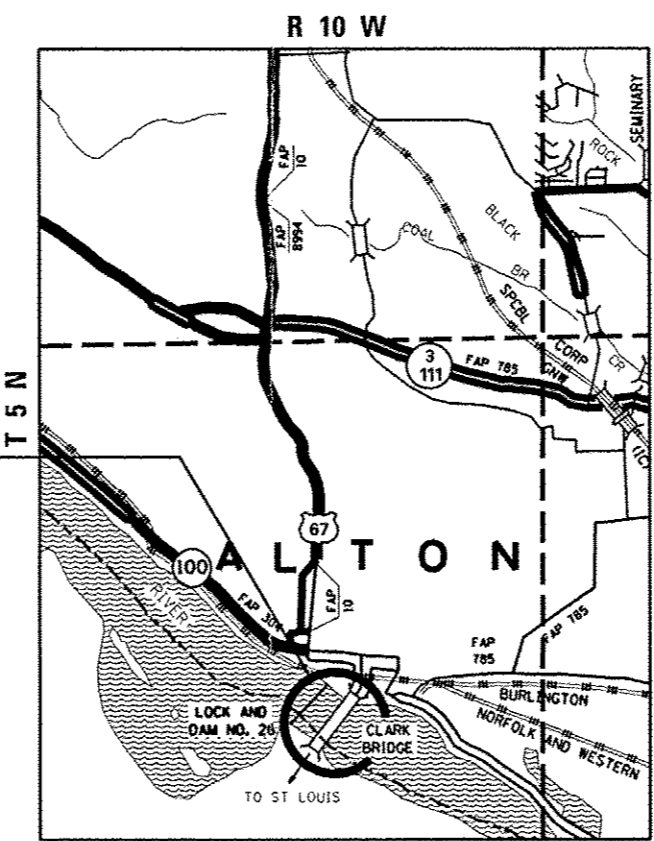
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: MICHAEL PRITCHETT (618)346-3180  
DESIGN SQUAD LEADER: GWEN LAGEMANN (618)346-3181

CONTRACT NO. 76E73

LOCATION: CLARK BRIDGE  
N 38° 52' 55"  
W 90° 10' 43"



ALTON TOWNSHIP  
SCALE: NOT TO SCALE

ADT  
27,800 (2011)  
SU = 1.98%  
MU = 1.98%

GROSS LENGTH = 4620.00 FT. = .875 MILE  
NET LENGTH = 4620.00 FT. = .875 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED March 19 2013  
Jeffrey J. Kern  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

April 26 2013  
John D. Baranzelli, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

April 26 2013  
Omer Osman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

**INDEX OF SHEETS**

- 1 COVER
- 2 INDEX OF SHEETS, GENERAL NOTES, & LIST OF STANDARDS
- 3-3A SUMMARY OF QUANTITIES
- 4 SCHEDULE OF QUANTITIES
- 5 TYPICAL CROSS SECTIONS
- 6-9 GENERAL PLANS
- 10 DETAIL SHEET
- 10A TRAFFIC CONTROL AND PROTECTION, SPECIAL
- 11-58 BRIDGE REPAIR PLANS

**LIST OF STANDARDS**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701422-05 LANE CLOSURE, MULTILANE, FOR SPEEDS  $\geq$  45 MPH TO 55 MPH
- 701901-02 TRAFFIC CONTROL DEVICES

**GENERAL NOTES**

1. THE STANDARDS AND REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
3. PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE AND ROADWAY HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NORMAL CONSTRUCTION VARIATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT BID FOR THE WORK.
4. IN ADDITION TO TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF THE BRIDGE DECK AND BRIDGE APPROACH PAVEMENT IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 107.16 REGARDLESS IF TRACK MOUNTED OR WHEELED.
5. UTILITY INTERFERENCES ARE NOT ANTICIPATED ON THIS CONTRACT. NO ADDITIONAL COST SHALL BE ADDED TO THE CONTRACT RESULTING FROM ANY UNANTICIPATED UTILITY INTERFERENCE. FOR ADDITIONAL INFORMATION, CONTACT THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (J.U.L.I.E.) SYSTEM AT (800) 892-0123 OR 811.
6. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTOR TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERAL FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORK FORCE TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION RELATED SKILLS. E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLAT WORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION. TO PREPARE THEM FOR A CAREER IN THEIR HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
7. EXISTING PAVEMENT MARKINGS SHALL BE TEMPORARILY COVERED PRIOR TO APPLICATION OF THE DECK SURFACE TREATMENT. TO PREVENT THE SEALER FROM BEING APPLIED TO THE MARKINGS AND TO PROTECT THE REFLECTIVE PROPERTIES OF THE MARKINGS. THE TEMPORARY COVERING MATERIAL USED SHALL BE SUCH THAT IT WILL NOT AFFECT THE MARKING'S REFLECTIVITY WHEN REMOVED AFTER APPLICATION OF THE DECK SURFACE TREATMENT AND PRIOR TO OPENING TO TRAFFIC. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR CONCRETE SEALER AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
8. CONTRACTOR MUST PROTECT ALL BRIDGE LIGHTING, UTILITIES, FIXTURES, CONDUITS, ETC. DURING WORK. ANY DAMAGE MUST BE REPORTED TO ENGINEER IMMEDIATELY.
9. CONTRACTOR SHALL FIELD VERIFY ALL DECK REPAIR LIMITS WITH ENGINEER PRIOR TO BEGINNING WORK.

**COMMITMENTS**

1. CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS AT LEAST TWO WEEKS PRIOR TO PROCEEDING WITH THIS WORK:

MISSOURI DEPARTMENT OF TRANSPORTATION  
1590 WOODLAKE DRIVE  
CHESTERFIELD, MO 63017  
MR. ED HASSINGER, P.E.  
DISTRICT ENGINEER  
314-275-1500

MADISON COUNTY TRANSIT DISTRICT  
1 TRANSIT WAY PO BOX 7500  
GRANITE CITY, IL 62010  
MR. JERRY KANE  
MANAGING DIRECTOR  
618-797-4600

GREAT RIVERS GREENWAY  
6174A DELMAR BOULEVARD  
ST. LOUIS, MO 63112  
MS. SUSAN TRAUTMAN  
EXECUTIVE DIRECTOR  
314-436-7009

LEAGUE OF ILLINOIS BICYCLISTS  
2550 CHESHIRE DRIVE  
AURORA, IL 60504  
MR. ED BARSOTTI  
EXECUTIVE DIRECTOR  
630-978-0583

METRO EAST PARKS AND RECREATION DISTRICT  
104 UNITED DRIVE  
COLLINSVILLE, IL 62234  
MR. MICHAEL BUEHLHORN  
EXECUTIVE DIRECTOR  
618-346-4905

TRAILNET  
411 NORTH 10TH STREET SUITE 202  
ST. LOUIS, MO 63101  
MS. ANN RIVERS MACK  
EXECUTIVE DIRECTOR  
314-436-1324 EXT 105

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, GENERAL NOTES, COMMITMENTS & LIST OF STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILE*	*USER*	DRAWN	REVISED			304	100B-10S-1	MADISON	58	2	
		CHECKED	REVISED			CONTRACT NO. 76E73					
		DATE	REVISED			ILLINOIS FED. AID PROJECT					
		PLOT SCALE		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		
		PLOT DATE									

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				50% IL. 50% MD	0014 URBAN STRUCTURE					
51100300	SLOPE WALL 6 INCH	SQ YD	2	2						
58700300	CONCRETE SEALER	SQ FT	10,424	10,424						
59000200	EPOXY CRACK INJECTION	FOOT	98	98						
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3						
67100100	MOBILIZATION	L SUM	1	1						
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1						
X0300062	GRAFFITI REMOVAL	SQ YD	1332	1332						
X0322215	CLEANING BRIDGE SCUPPERS AND DOWNSPOUTS	EACH	7	7						
X7010216	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1	1						
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	27	27						
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	33	33						
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1						
X0327543	POLYURETHANE SEALANT	FOOT	104	104						
*X0322597	CABLE WRAPPING	L SUM	1	1						

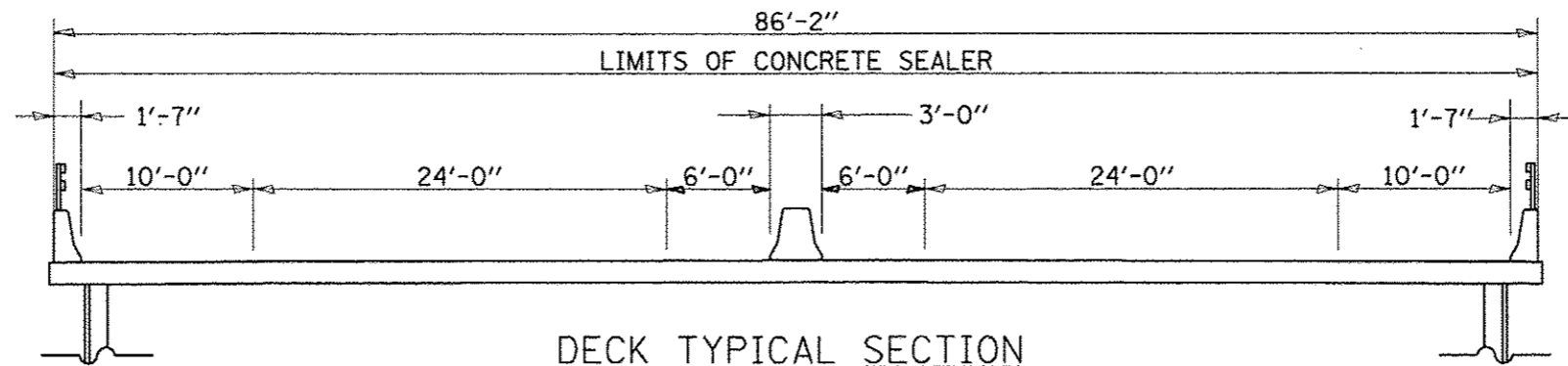
\* SPECIALTY ITEM

FILE NAME	USER NAME * USER *	DESIGNED - GEL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE. 304	SECTION 1008-105-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 3
#FILE#	PLOT SCALE * #SCALE*	DRAWN - LAC	REVISED -		SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 76E73				
	PLOT DATE * #DATE*	CHECKED - MDP	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE - 3/20/2012	REVISED -										



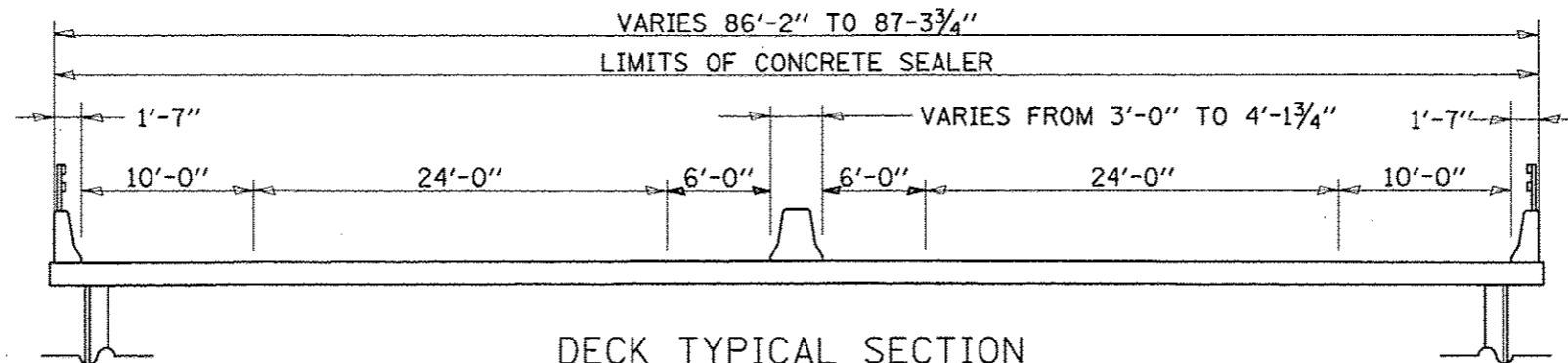
SCHEDULE OF QUANTITIES FOR BRIDGE DECK CONCRETE SEALER

STA	TO	STA	LENGTH (FT)	AVG. WIDTH (FT)	DECK AREA TO BE SEALED (SQ FT)	OUTSIDE PARAPET TO BE SEALED (SF/LINEAR FT)	MEDIAN PARAPET TO BE SEALED (SF/LINEAR FT)	OUTSIDE PARAPET AREA TO BE SEALED (SQ FT)	MEDIAN PARAPET AREA TO BE SEALED (SQ FT)	AVERAGE MEDIAN WIDTH (FT)	MEDIAN TO BE SEALED (SQ FT)
208+35.00		224+43.04	1608.04	80	128643.2	3.84	3.03	12349.7	9744.7	1.5	2344.5
224+43.04		225+21.50	78.46	80	6276.8	3.84	3.03	602.6	475.5	2.0	159.4
225+21.50		227+22.00	200.50	80	16040.0	3.84	3.67	1539.8	1471.7	4.7	933.5
227+22.00		235+18.00	796.00	80	63680.0	3.84	3.67	6113.3	5842.6	8.0	6368.0
235+18.00		237+18.50	200.50	80	16040.0	3.84	3.67	1539.8	1471.7	4.7	933.1
237+18.50		237+97.12	78.62	80	6289.6	3.84	3.03	603.8	476.4	2.0	159.7
237+97.12		254+55.00	1657.88	80	132630.4	3.84	3.03	12732.5	10046.8	1.5	2417.2
SUBTOTAL BRIDGE DECK CONCRETE SEALER (SQ FT)					369600.0			35481.6	29529.4		13315.3
TOTAL BRIDGE DECK CONCRETE SEALER FOR BRIDGE DECK * (SQ FT)								447926			



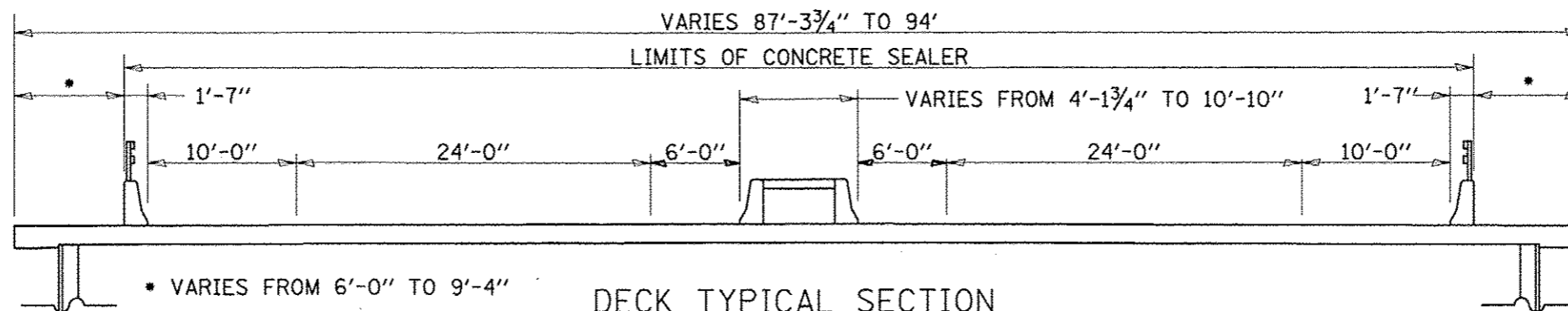
**DECK TYPICAL SECTION**

STA. 208+35 TO STA. 224+43.04  
 STA. 237+97.12 TO STA. 254+55



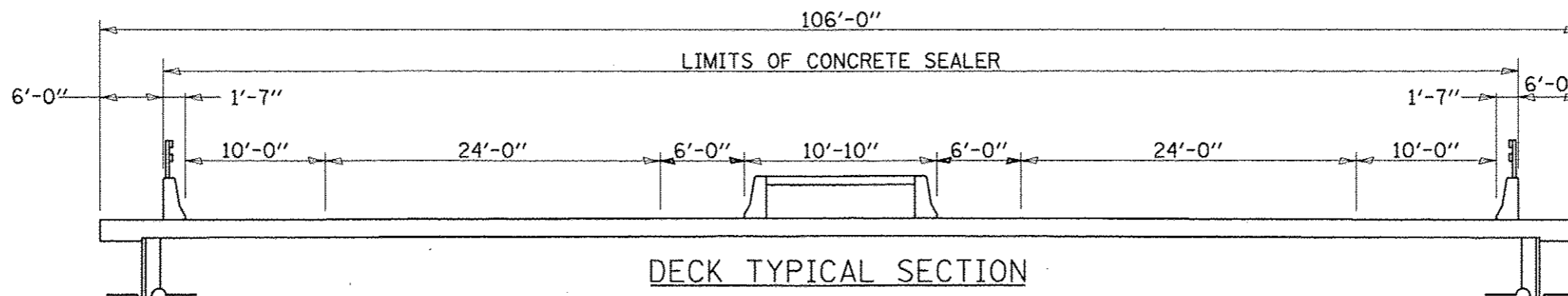
**DECK TYPICAL SECTION**

STA. 224+43.04 TO STA. 225+21.5  
 STA. 237+18.5 TO STA. 237+97.12



**DECK TYPICAL SECTION**

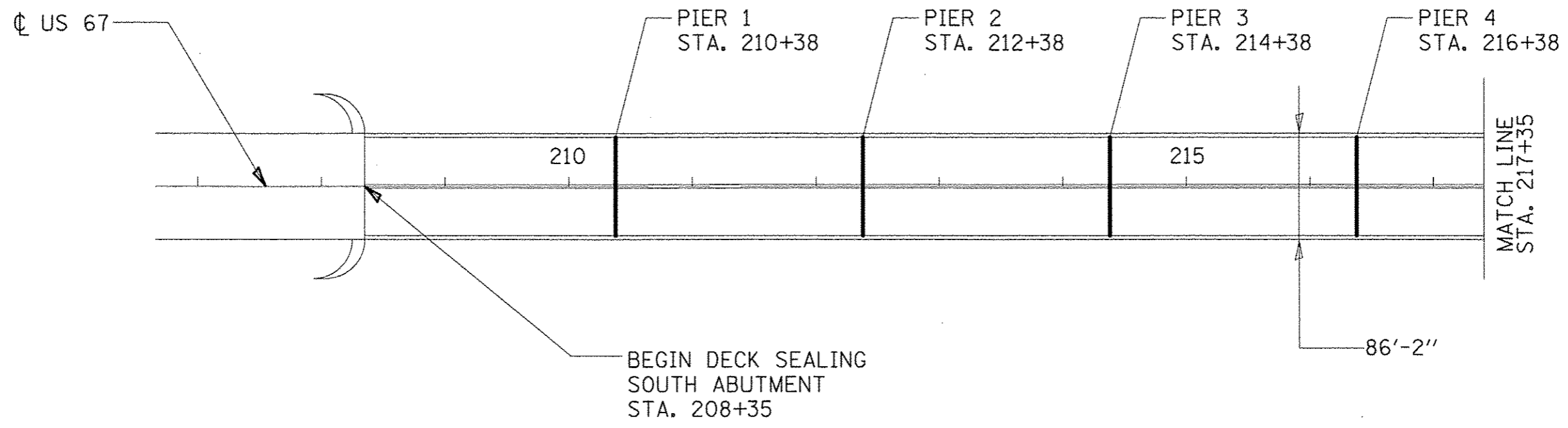
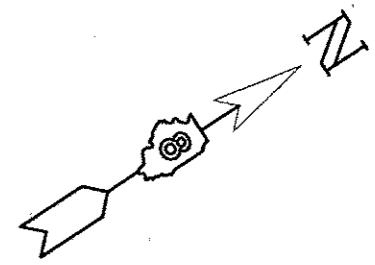
STA. 225+21.5 TO STA. 227+22  
 STA. 235+18 TO STA. 237+18.5



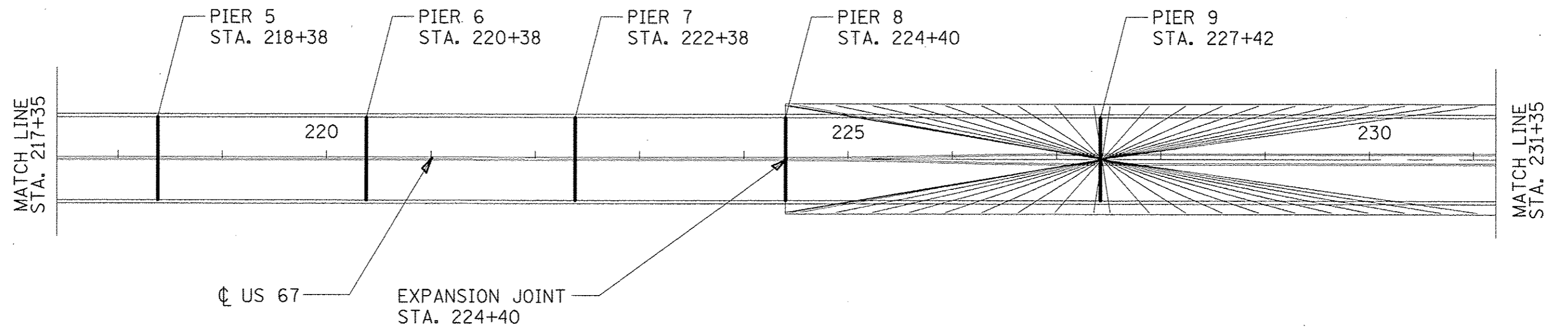
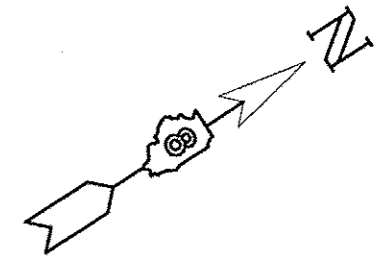
**DECK TYPICAL SECTION**

STA. 227+22 TO STA. 235+18

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		DRAWN - LAC	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>CONTRACT NO. 76E73</b>		
		CHECKED - MDP	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		DATE - 11/16/2012	REVISED -								

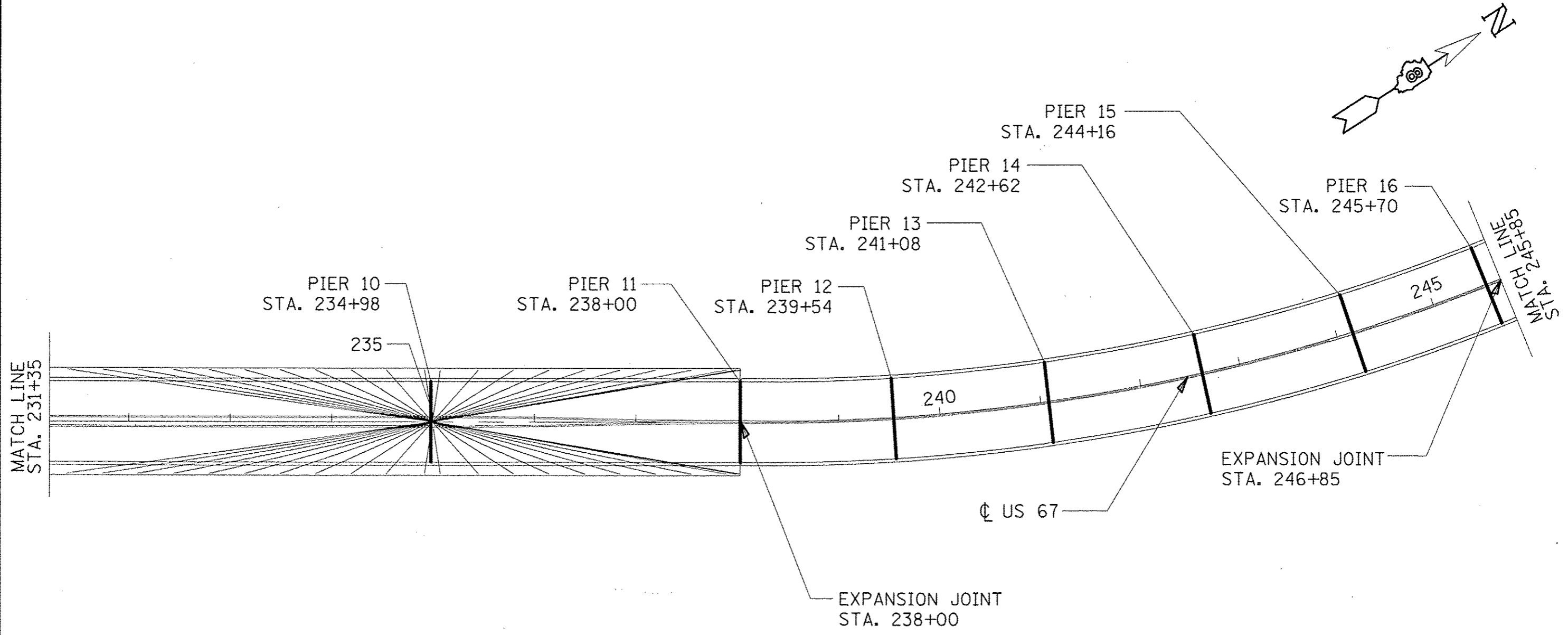


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*FILEL*		DRAWN - LAC	REVISED -		SCALE:	SHEET NO. 1 OF 4 SHEETS	STA. 207+00	TO STA. 217+35	<b>CONTRACT NO. 76E73</b>			
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		DATE - 11/16/2012	REVISED -									



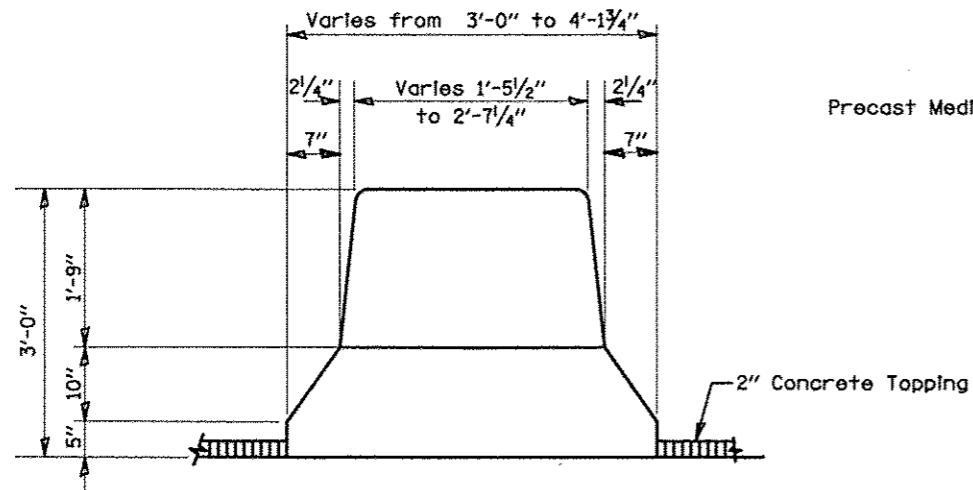
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#FILE*		DRAWN - LAC	REVISED -		SCALE:	SHEET NO. 2 OF 4 SHEETS	STA. 217+35 TO STA. 231+35	304	100B-1DS-1		58	7
		CHECKED - MDP	REVISED -									
		DATE - 11/16/2012	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			CONTRACT NO. 76E73





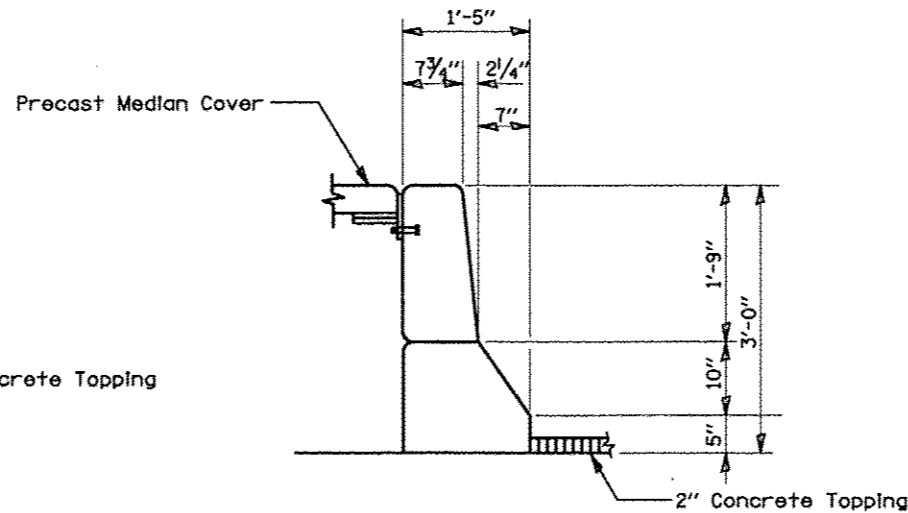
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		DRAWN - LAC	REVISED -		SCALE:	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.	CONTRACT NO. 76E73		
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		DATE - 11/16/2012	REVISED -								





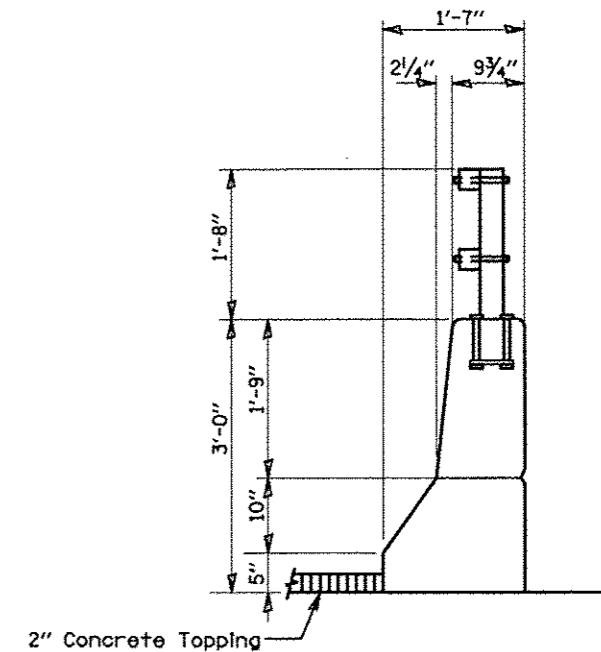
DETAIL "A"  
SOLID MEDIAN

STA. 224+43.04 TO 225+21.5  
STA. 237+18.5 TO 237+97.12



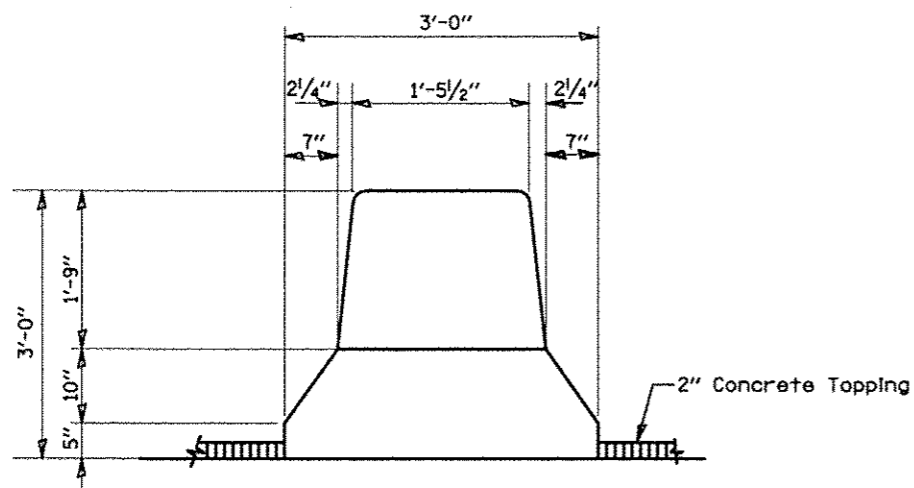
DETAIL "B"  
INSIDE PARAPET

STA. 225+21.5 TO 237+18.5



DETAIL "C"  
OUTSIDE PARAPET

STA. 208+35 TO STA. 254+55



DETAIL "D"  
SOLID MEDIAN

STA. 208+35 224+43.04  
STA. 237+97.12 TO 254+55

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET

FILE NAME \*  
#FILE#

USER NAME \*USER\*  
PLOT SCALE \*SCALE\*  
PLOT DATE \*DATE\*

DESIGNED - GEL  
DRAWN - LAC  
CHECKED - MDP  
DATE - 11/16/2012

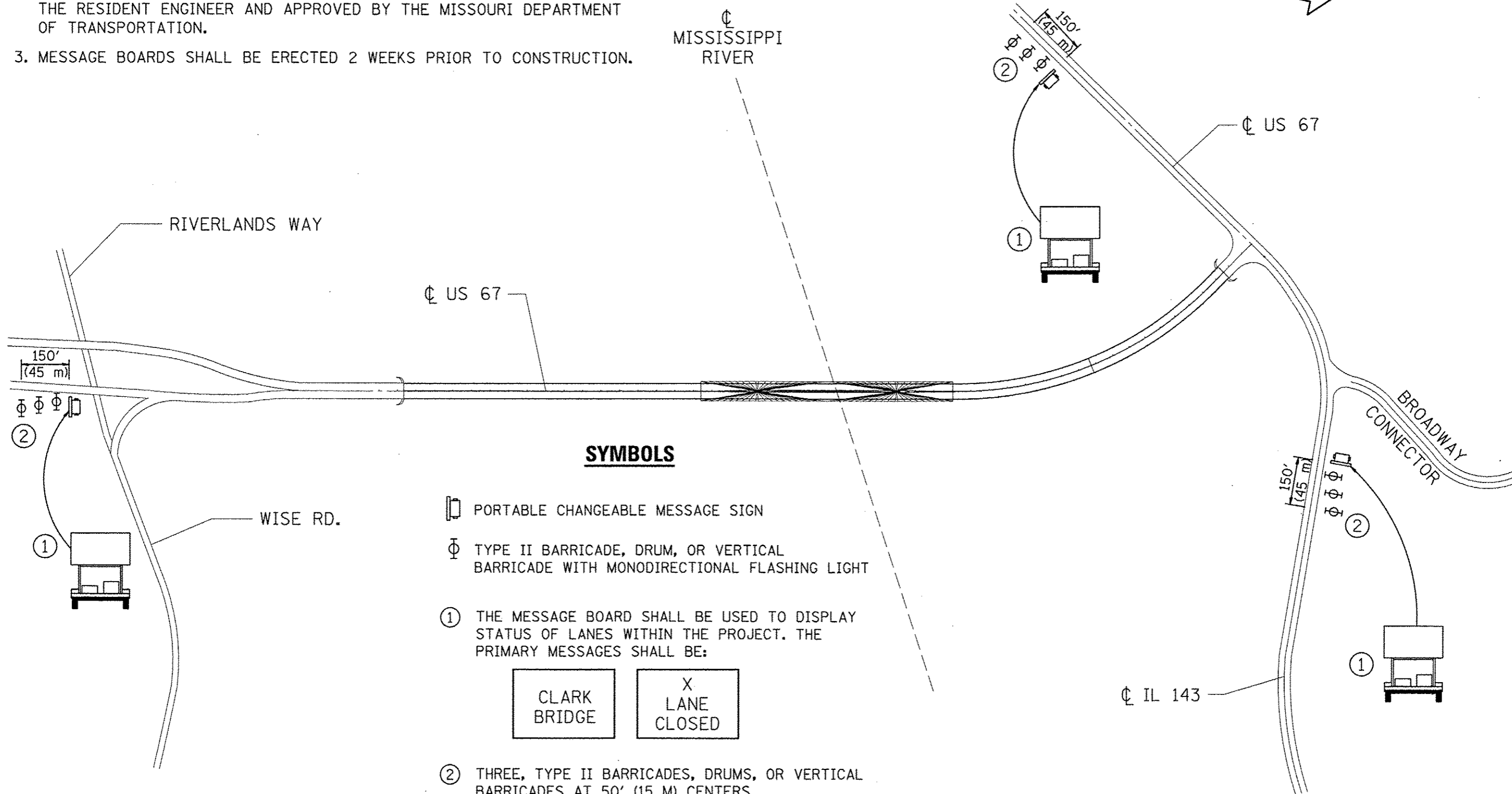
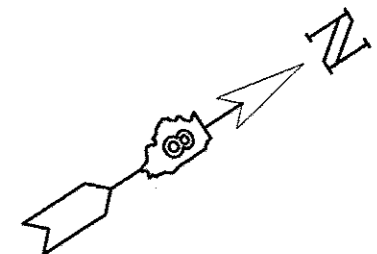
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SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1		58	10
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76E73	

**NOTES**

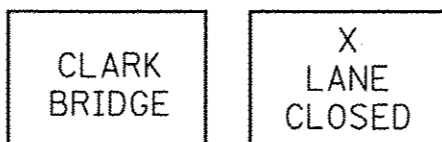
1. LOCATIONS OF MESSAGE BOARDS IN ILLINOIS TO BE COORDINATED WITH THE RESIDENT ENGINEER.
2. LOCATION OF MESSAGE BOARD IN MISSOURI TO BE COORDINATED WITH THE RESIDENT ENGINEER AND APPROVED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION.
3. MESSAGE BOARDS SHALL BE ERECTED 2 WEEKS PRIOR TO CONSTRUCTION.



**SYMBOLS**

- PORTABLE CHANGEABLE MESSAGE SIGN
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

- ① THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:



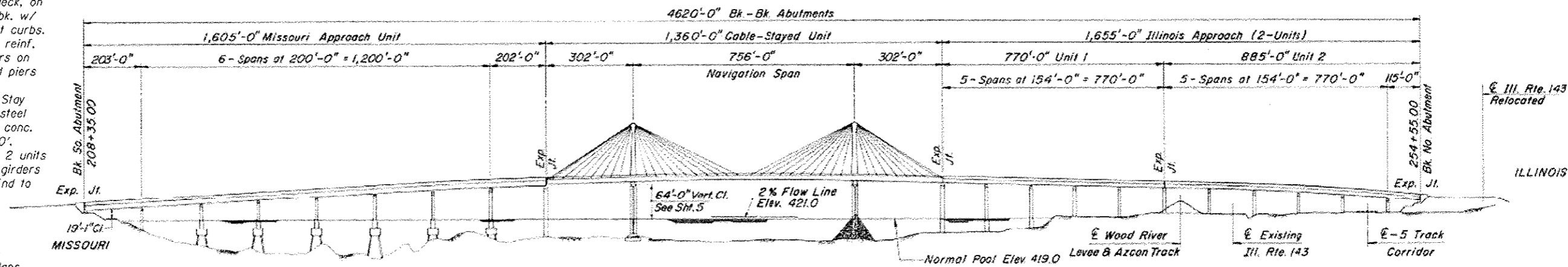
- ② THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' (15 M) CENTERS.

FILE NAME : #FILE#	USER NAME : *USER*	DESIGNED - DRAWN -	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION, SPECIAL</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE : *SCALE*	CHECKED -	REVISED -	100B-1DS-1			58	10A			
PLOT DATE : *DATE*	DATE -	REVISED -	CONTRACT NO. 76E73							
					SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

**EXISTING STRUCTURE:**

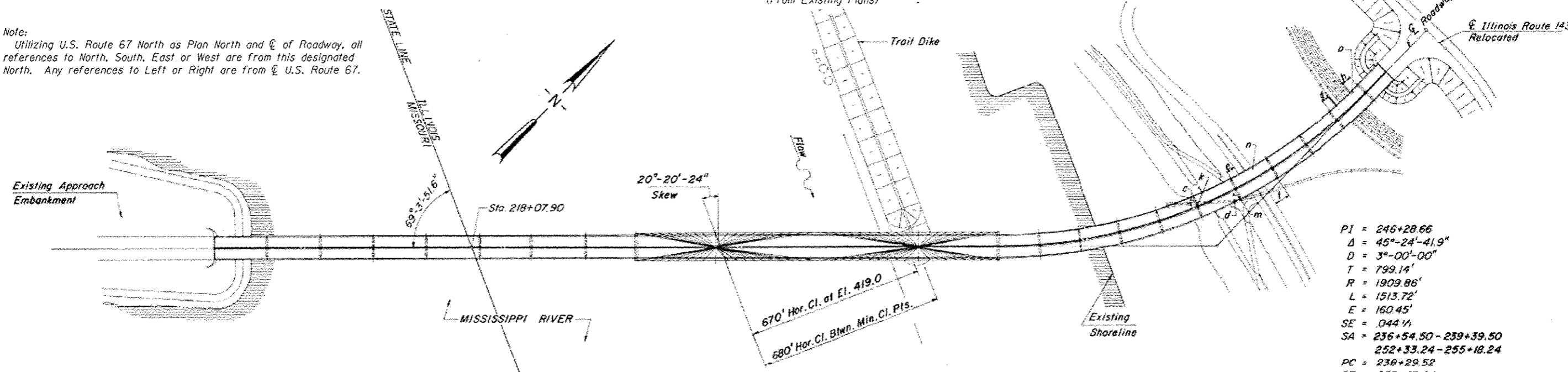
22-Spans (4 Units) Superstructure w/ 4 lane divided conc. deck, on steel girders. 4620' bk.-bk. w/ 40' clear between parapet curbs. Missouri Approach: 8 span reinf. conc. deck on steel girders on deep water pile supported piers End to End = 1605'. Main Spans: 3 span Cable Stay supported conc. deck on steel girders on pile supported conc. Pylons End to End = 1360'. Illinois Approach: 11 spans 2 units reinf conc deck on steel girders on pile supported piers End to End = 1655'. Str. No. 060-0255

Traffic shall be maintained on structure according to Maintenance of Traffic Plans.



Note:  
 Utilizing U.S. Route 67 North as Plan North and C of Roadway, all references to North, South, East or West are from this designated North. Any references to Left or Right are from C U.S. Route 67.

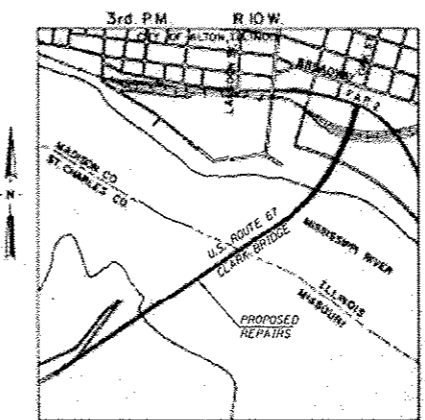
**ELEVATION**  
 (From Existing Plans)



**PLAN**  
 (From Existing Plans)

**DESIGN STRESSES**  
 FIELD UNITS (New Const.)

f'c = 3,500 psi  
 fy = 36,000 psi (AASHTO M270 Grade 36)



**LOCATION MAP**



Michael N. Mendenhall  
 SIGNATURE  
 01-09-2013  
 DATE  
 LIC EXP. DATE: 11-30-2014

**GENERAL PLAN & ELEVATION**  
**U.S.ROUTE 67 (F.A.P. 304) over MISSISSIPPI RIVER**  
**SECTION 100B-IDS-1**  
**MADISON COUNTY, ILLINOIS**  
**STATION 231+45.00**  
**STRUCTURE NO. 060-0255**

DESIGNED	EXAMINED	DATE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 060-0255 SHEET NO. 01 OF 48 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED	PASSED	ENGINEER OF STRUCTURAL SERVICES			304	100B-IDS-1	MADISON	58	11	
DRAWN Rod	ENGINEER OF BRIDGES AND STRUCTURES				CONTRACT NO. 76E73					
CHECKED MM					ILLINOIS FED. AID PROJECT					



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**GENERAL NOTES**

Utilizing U.S. Route 67 North as Plan North and  $\odot$  of Roadway, all references to North, South, East or West are from this designated North. Any references to Left or Right are from  $\odot$  U.S. Route 67.

All new structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

No Field Welding is permitted except as specified in the contract documents.

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.

Cost of removal and re-installation of all members necessary to complete the repair work as detailed on the plans shall be included in the cost of the repair work.

Areas of deck repairs shown are observed estimates from June 2012. The Engineer will determine final patch locations and quantities in the field before deck slab repair operations begin. The Engineer shall show actual locations of deck repairs on As-built Plans.

All steel railing elements to be repaired, shall be galvanized according to Article 509.05 of the Standard Specifications.

All steel railing elements to be repaired, shall have the replacement materials according to the appropriate materials listed in Article 509.02 of the Standard Specifications.

**INDEX of SHEETS**

1. General Plan and Elevation
2. General Data
3. Concrete Stopewall Illinois Abutment
4. Deck Slab and Parapets Spans 1 and 2
5. Deck Slab and Parapets Spans 5 and 6
6. Deck Slab and Parapets Spans 7 and 8
7. Deck Slab and Parapets Span 9
8. Deck Slab and Parapets Span 10 (So. Half)
9. Deck Slab and Parapets Span 11
10. Deck Slab and Parapets Spans 12, 13 and 14
11. Deck Slab and Parapets Spans 15, 16 and 17
12. Deck Slab and Parapets Spans 21 and 22
13. Cable Stay Layout - Numbering Sequence
14. Cable Wrapping
15. Cable Stabilizer Details
16. South Abutment
17. North Abutment
18. Pier Number 1 - Cap
19. Pier Number 1 - Columns
20. Pier Number 2 - Cap
21. Pier Number 3 - Cap
22. Pier Number 3 - Columns
23. Pier Number 4 - Cap
24. Pier Number 4 - Columns
25. Pier Number 5 - Cap
26. Pier Number 6 - Cap
27. Pier Number 7 - Cap
28. Pier Number 8 - Cap
29. Pier Number 8 - Columns
30. Pier Number 9 - Missouri Pylon
31. Missouri Pylon - (436.50 to 476.25)
32. Missouri Pylon - (476.25 to 492.92)
33. Missouri Pylon - Head and Access Spaces
34. Pier Number 10 - Illinois Pylon
35. Illinois Pylon - Head and Access Spaces
36. Lt. End Block - Concrete End Beam - over Pier Number 11
37. Pier Number 11 - Cap
38. Pier Number 14 - Cap
39. Pier Number 14 - Columns
40. Pier Number 16 - Columns
41. Pier Number 17 - Cap
42. Pier Number 19 - Cap
43. Pier Number 19 - Columns
44. Pier Number 20 - Columns
45. Pier Number 21 - Cap
46. Pier Number 21 - Columns
47. Missouri Approach Slab
48. Illinois Approach Slab

**TOTAL BILL OF MATERIAL**

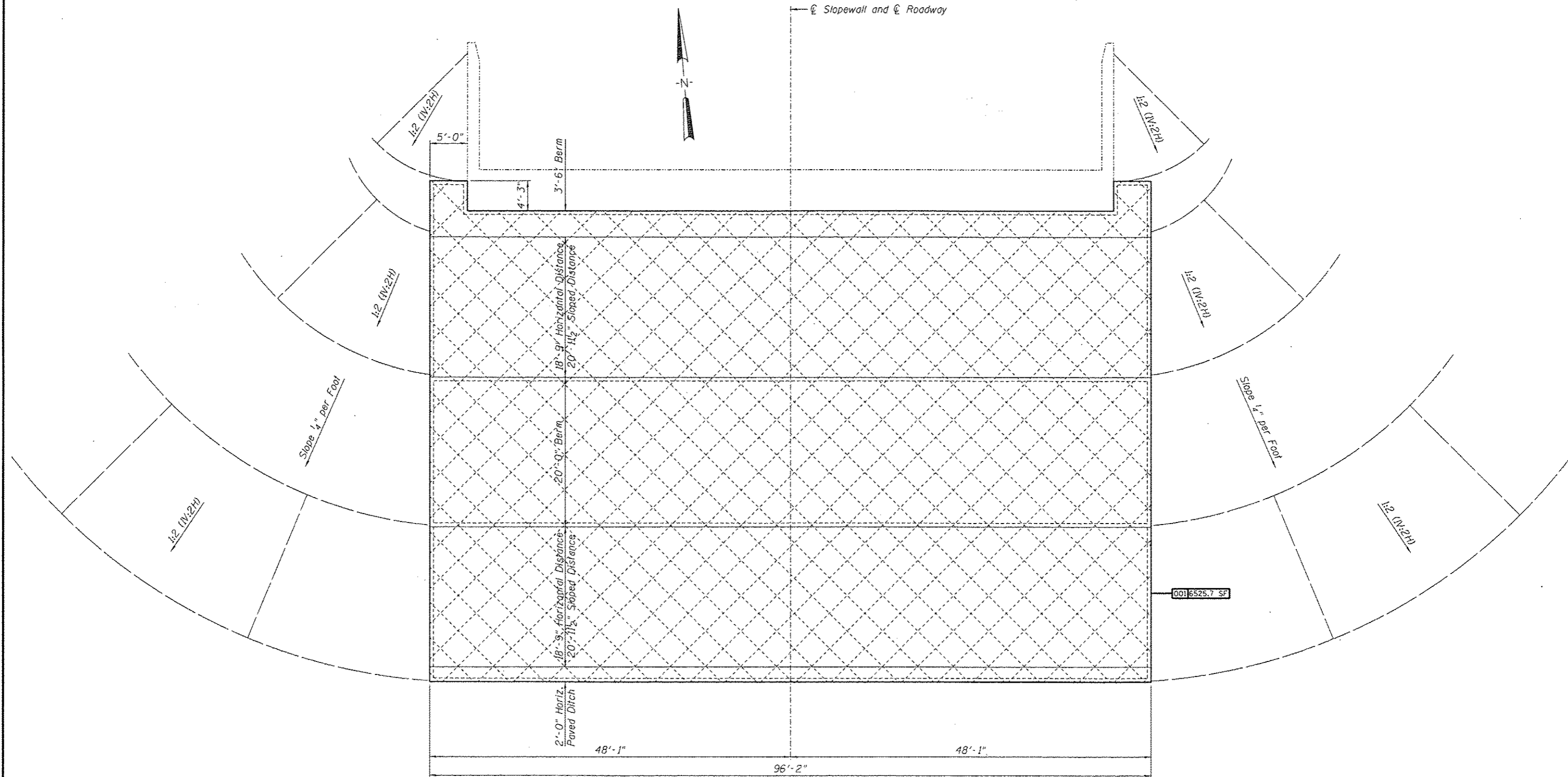
ITEM	UNIT	QUANTITY
Slope Wall 6 Inch	SQ. YD.	2
Concrete Sealer	SQ. FT.	10424
Epoxy Crack Injection	FOOT	98
Graffiti Removal	SQ. YD.	1332
Cleaning Bridge Scuppers and Downspouts	Each	7
Structural Repair of Concrete (Depth equal to or less than 5 inches)	SQ. FT.	27
Deck Slab Repair (Partial)	SQ. YD.	33
Polyurethane Sealant	FOOT	104
Cable Wrapping	L. SUM	1
Cable Stabilizer Repairs	L. SUM	1



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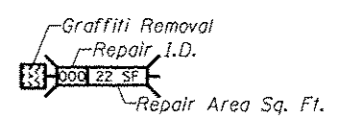
DESIGNED -	EXAMINED _____ DATE _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL DATA STRUCTURE NO. 060-0255</b>		F.A.P. RTE. 304	SECTION 100B-105-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 12
CHECKED -	ENGINEER OF STRUCTURAL SERVICES						CONTRACT NO. 76E73		
DRAWN Rod	PASSED _____								
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES				SHEET NO. 02 OF 48 SHEETS				ILLINOIS FED. AID PROJECT



**SLOPEWALL PLAN**

**REPAIRS LIST - NORTH ABUTMENT SLOPEWALL**

I.D.	Description	Pay Item	Units	Quantity
001	Gaffiti on Slopedwall	Graffiti Removal	SQ. YD.	725
-	-	-	-	-
-	-	-	-	-



**GRAFFITI REMOVAL**

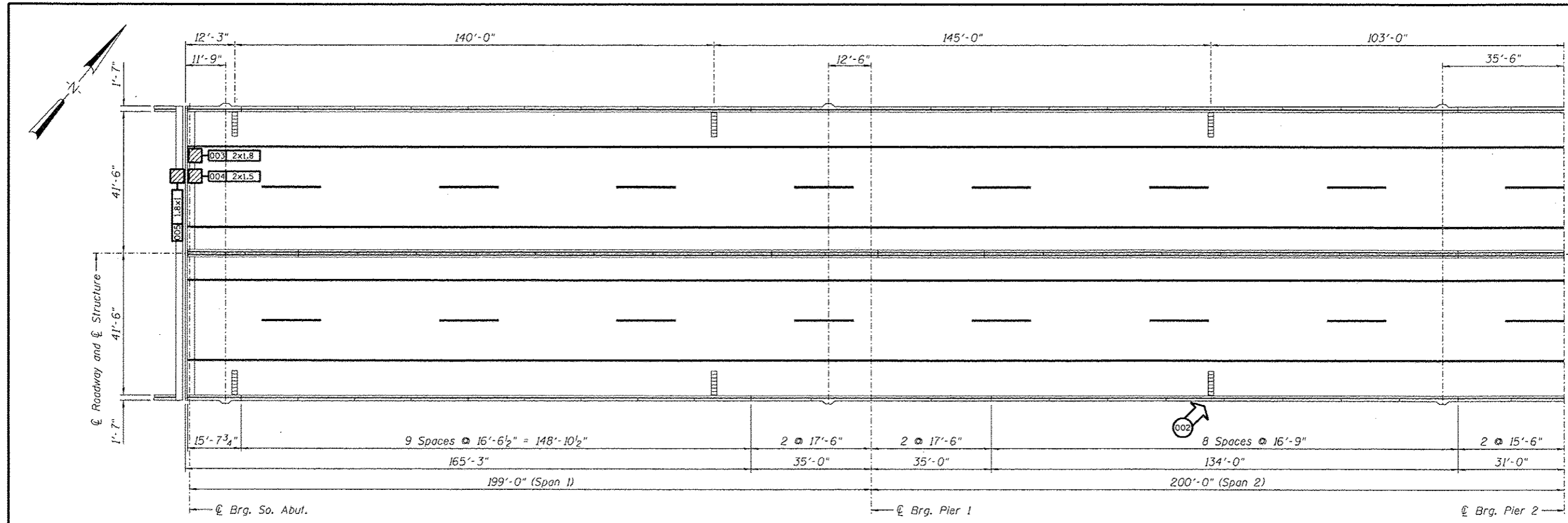
DESIGNED -	EXAMINED _____	DATE _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REPAIRS TO - ILLINOIS ABUTMENT - CONCRETE SLOPEWALL  
 STRUCTURE NO. 060-0255**

SHEET NO. 03 OF 48 SHEETS

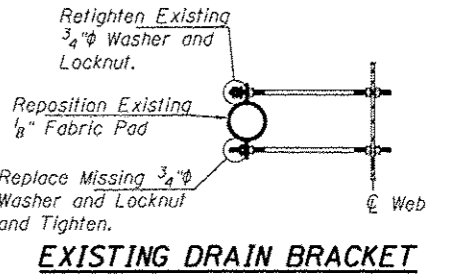
F.A.P. RTE. 304	SECTION 100B-1DS-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 13
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	



**MISSOURI APPROACH - SPANS 1 and 2**

**REPAIRS LIST - SPANS 1 and 2**

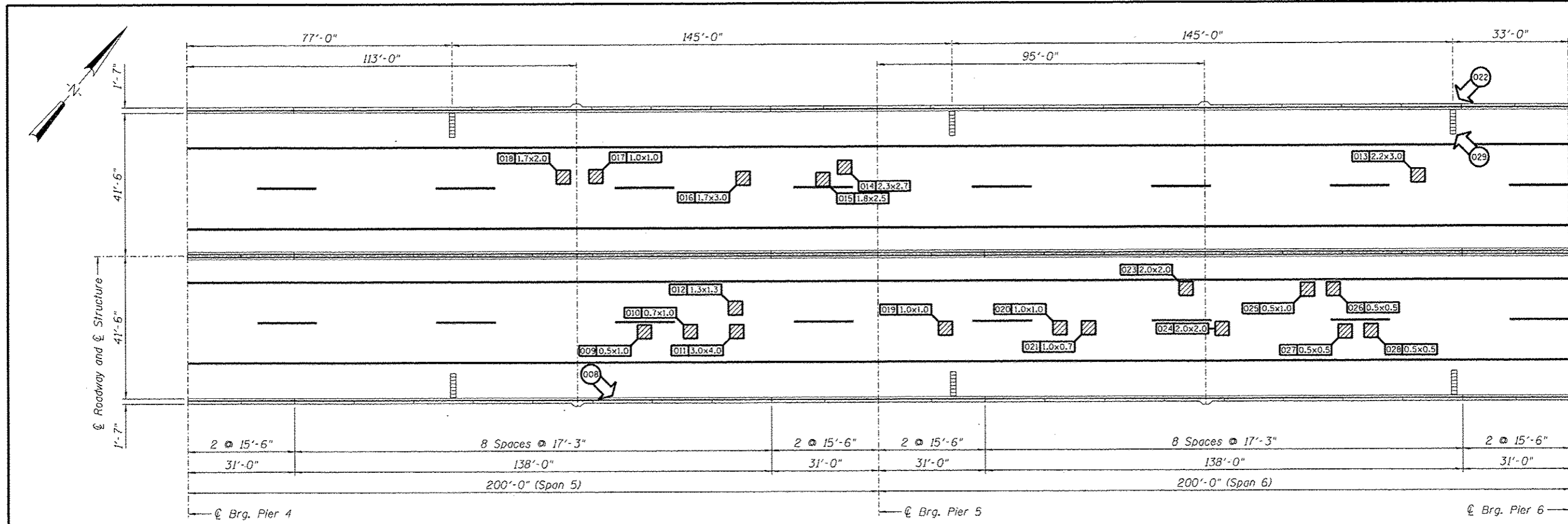
I.D.	Description	Pay Item	Units	Quantity
002	Missing Bracket Fastener	-	-	-
003	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.40
004	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.33
005	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.20
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Note:  
\* Cost of repairing existing drain bracket shall be included in the Cost of Cleaning Bridge Scuppers and Downspouts.



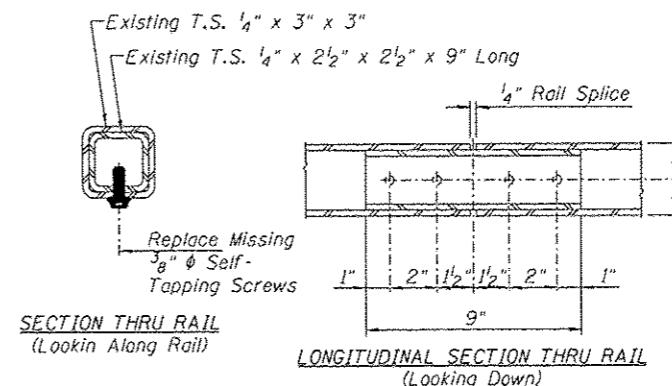




**MISSOURI APPROACH - SPANS 5 and 6**

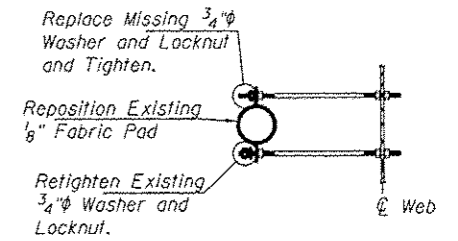
**REPAIRS LIST - SPANS 5 and 6**

I.D.	Description	Pay Item	Units	Quantity
008	Missing Fasteners Bridge Rail Splice			
009	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.06
010	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.08
011	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	1.33
012	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.19
013	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.73
014	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.69
015	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.50
016	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.57
017	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.11
018	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.38
019	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.11
020	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.11
021	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.08
022	Missing Bracket Fastener			
023	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.44
024	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.44
025	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.06
026	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.03
027	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.03
028	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.03
029	Clogged Scupper	Cleaning Bridge Scuppers and Downspouts	Each	1



**BRIDGE RAIL SPLICE FASTENER REPAIR**

Note:  
 When necessary reposition interior splice sleeve by realigning the sleeve and rail holes for either side prior to installing new fasteners. Install 2 fasteners on one side only. Fasteners shall be self tapping galvanized screws of sufficient diameter to retap any damaged screw holes and provide a tight connection.  
 \* Cost for repairing existing bridge rail splice shall be included in the Cost of Deck Slab Repair (Partial).

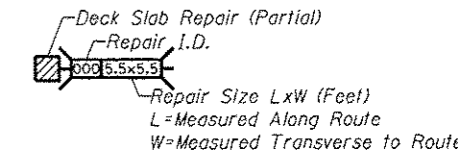


**EXISTING DRAIN BRACKET**

Note:  
 \*\* Cost of repairing existing drain bracket shall be included in the Cost of Cleaning Bridge Scuppers and Downspouts.

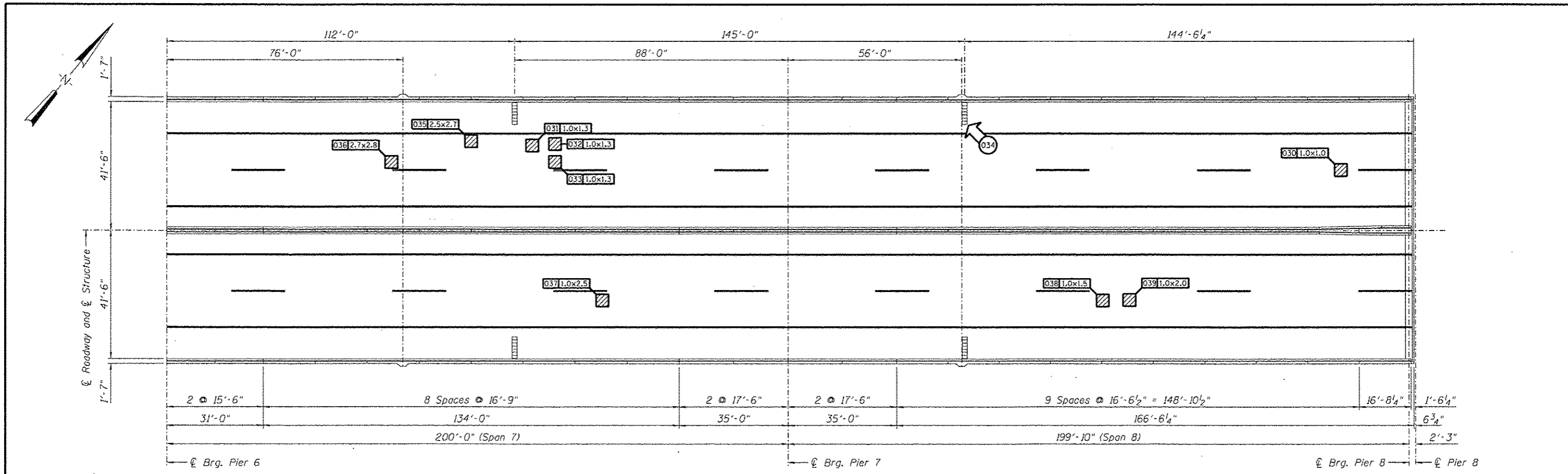


**OTHER ITEMS**



**DECK SLAB REPAIR (PARTIAL)**

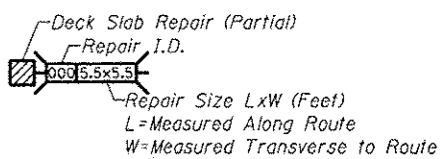
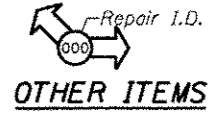
DESIGNED -	EXAMINED	DATE	<b>STATE OF ILLINOIS                  DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIRS TO - DECK SLAB and PARAPETS - SPANS 5 and 6                  STRUCTURE NO. 060-0255</b>	F.A.P. RTE. 304	SECTION 100B-10S-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 15	
CHECKED -	ENGINEER OF STRUCTURAL SERVICES				CONTRACT NO. 76E73					
DRAWN Rod	PASSED				ILLINOIS FED. AID PROJECT					
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES				SHEET NO. 05 OF 48 SHEETS					



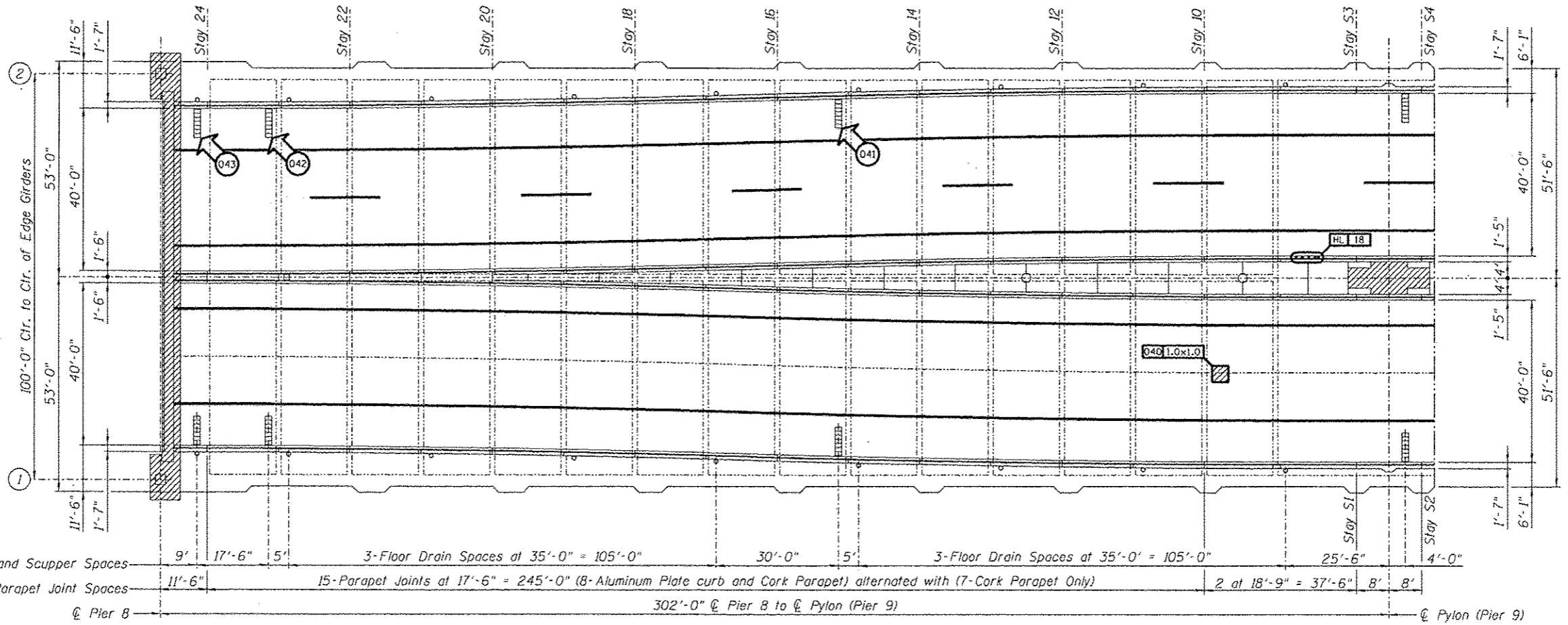
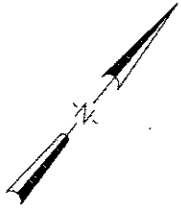
**MISSOURI APPROACH - SPANS 7 and 8**

**REPAIRS LIST - SPANS 7 and 8**

I.D.	Description	Pay Item	Units	Quantity
030	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.11
031	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.14
032	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.14
033	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.14
034	Clagged Scupper	Cleaning Bridge Scuppers and Downspouts	Each	1
035	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.75
036	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.84
037	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.28
038	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.17
039	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.22
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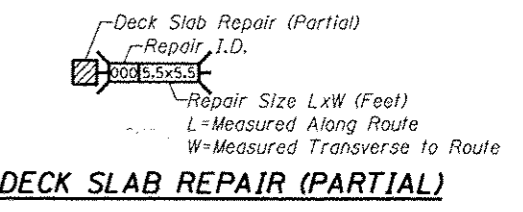
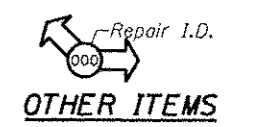
DESIGNED -	EXAMINED	DATE -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIRS TO - DECK SLAB and PARAPETS - SPANS 7 and 8 STRUCTURE NO. 060-0255</b>	F.A.P. RTE. 304	SECTION 100B-IDS-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 16
CHECKED -	PASSED			SHEET NO. 06 OF 48 SHEETS					
DRAWN Rod									
CHECKED MNM									



**CSS - MISSOURI TAIL SPAN - SPAN 9**

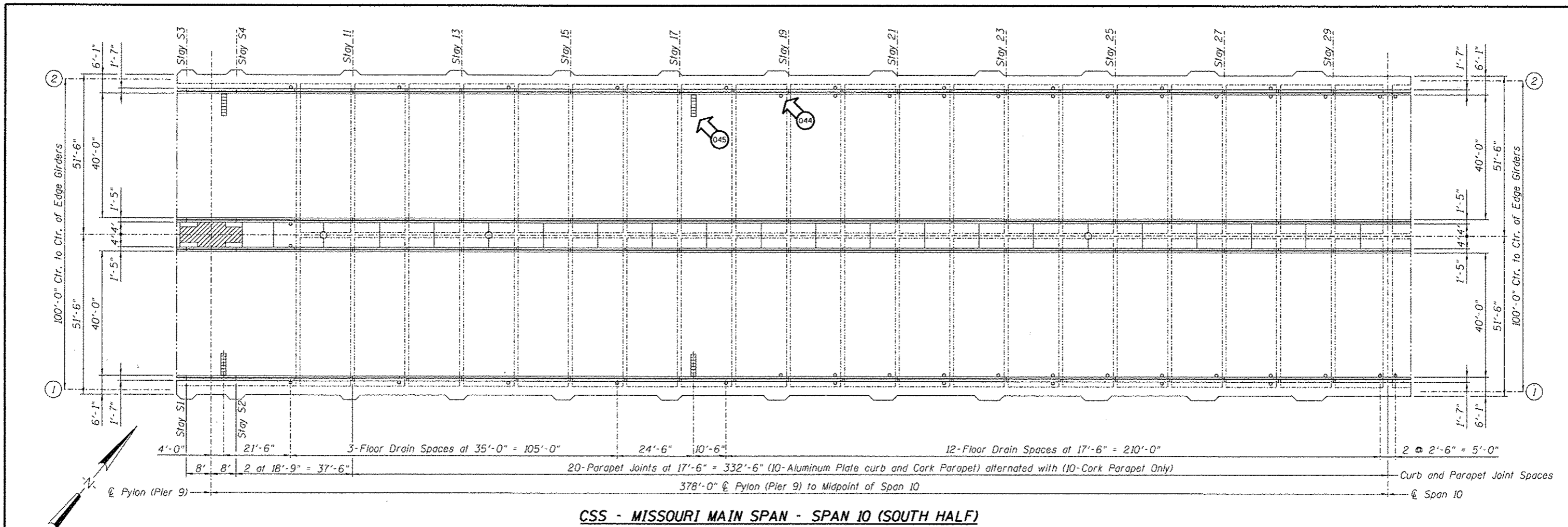
**REPAIRS LIST - SPAN 9**

I.D.	Description	Pay Item	Units	Quantity
040	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.11
041	Clogged Scupper	Cleaning Bridge Scuppers and Downspouts	Each	1
042	Clogged Scupper	Cleaning Bridge Scuppers and Downspouts	Each	1
043	Clogged Scupper	Cleaning Bridge Scuppers and Downspouts	Each	1
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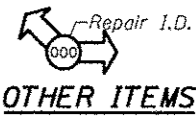
DESIGNED -	EXAMINED _____ DATE - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIRS TO - CSS - DECK SLAB and PARAPETS - SPAN 9 STRUCTURE NO. 060-0255</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -	ENGINEER OF STRUCTURAL SERVICES			304	100B-DS-1	MADISON	58	17
DRAWN Rod	PASSED _____	SHEET NO. 07 OF 48 SHEETS		CONTRACT NO. 76E73				
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	ILLINOIS FED. AID PROJECT						

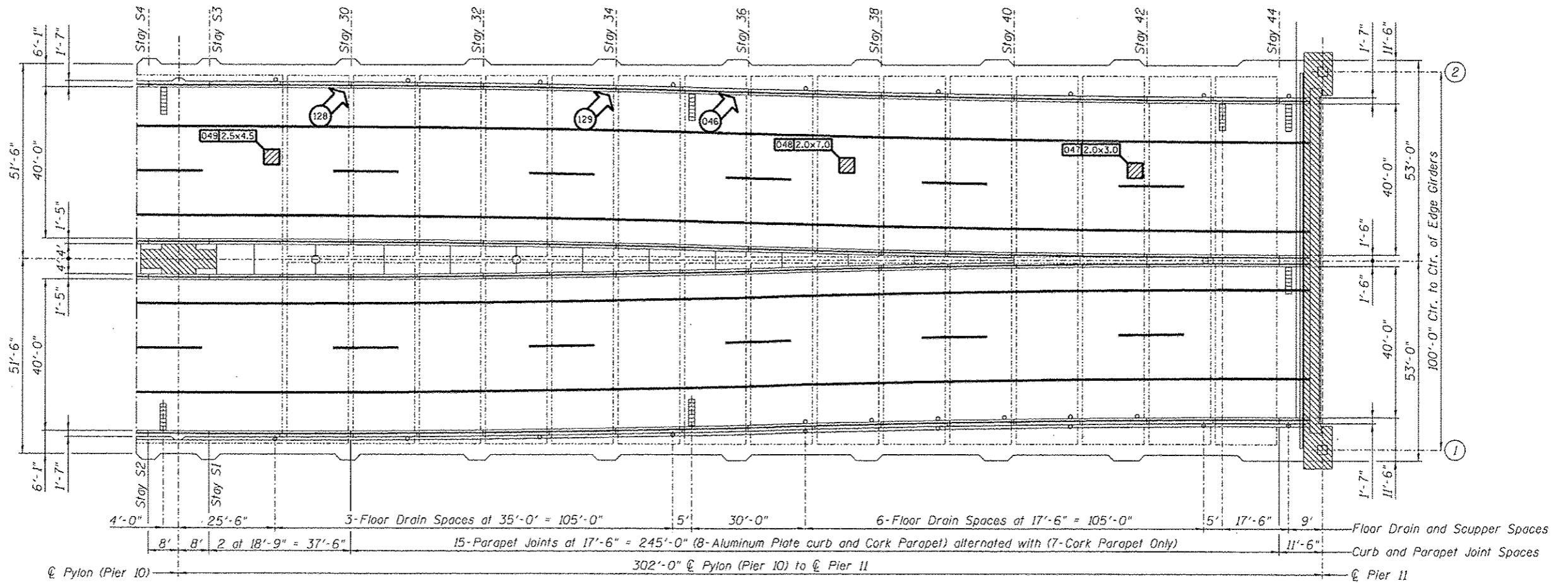
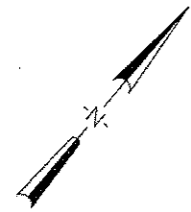


CSS - MISSOURI MAIN SPAN - SPAN 10 (SOUTH HALF)

REPAIRS LIST - SPAN 10 (SOUTH HALF)

I.D.	Repair Description	Pay Item	Units	Quantity
044	Clogged Floor Drain	Cleaning Bridge Scuppers and Downspouts	Each	1
045	Clogged Scupper	Cleaning Bridge Scuppers and Downspouts	Each	1
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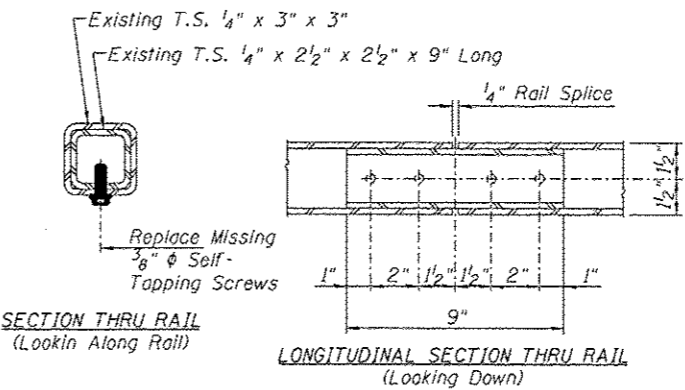




**CSS - ILLINOIS TAIL SPAN - SPAN II**

**REPAIRS LIST - SPAN II**

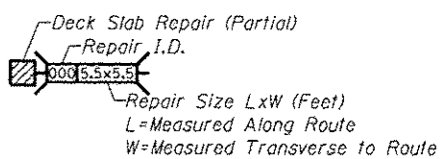
I.D.	Description	Pay Item	Units	Quantity
046	Missing Fasteners Bridge Rail Splice	-	-	-
047	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.67
048	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	1.56
049	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	1.25
128	Missing Fasteners Bridge Rail Splice	-	-	-
129	Missing Fasteners Bridge Rail Splice	-	-	-



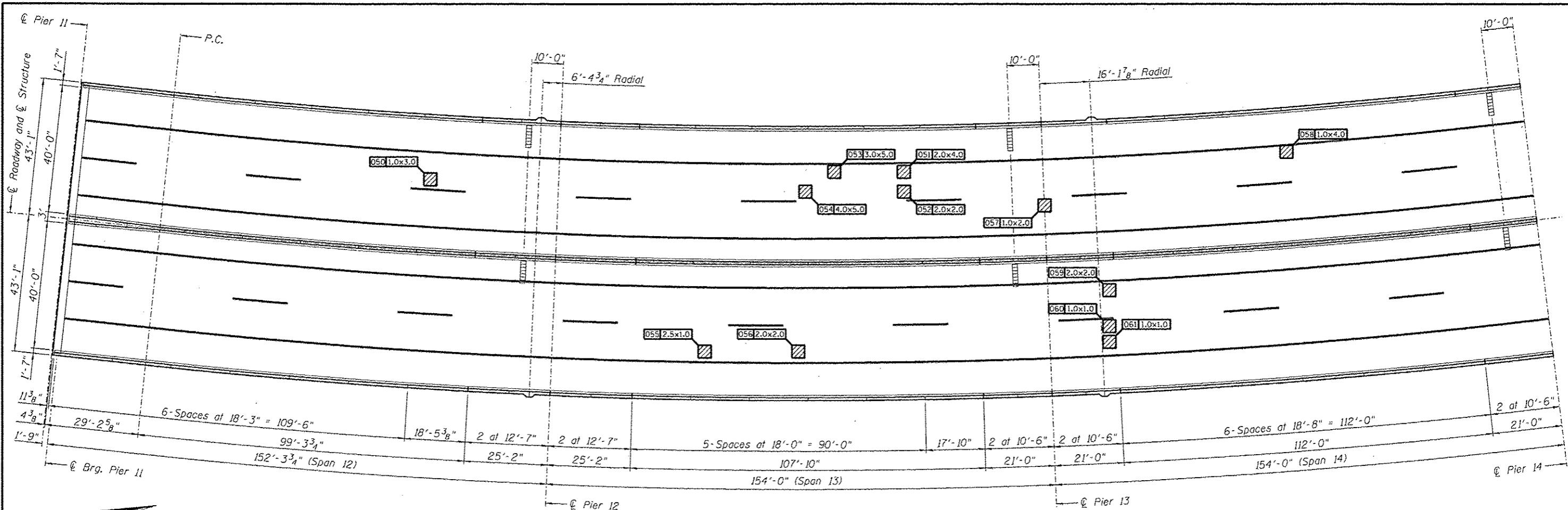
**BRIDGE RAIL SPLICE FASTENER REPAIR**

Note:  
When necessary reposition interior splice sleeve by realigning the sleeve and rail holes for either side prior to installing new fasteners. Install 2 fasteners on one side only. Fasteners shall be self tapping galvanized screws of sufficient diameter to retap any damaged screw holes and provide a tight connection.  
\* Cost for repairing existing bridge rail splice shall be included in the Cost of Deck Slab Repair (Partial).

**OTHER ITEMS**



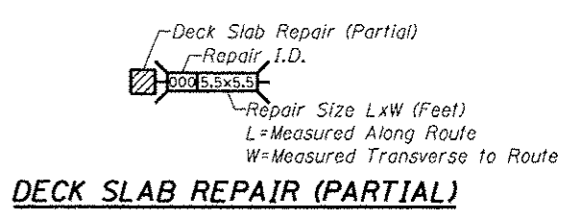
**DECK SLAB REPAIR (PARTIAL)**



**ILLINOIS APPROACH - SPANS 12, 13 and 14**  
 (All measurements are along Girder 4 (€ Roadway))

**REPAIRS LIST - SPANS 12, 13 and 14**

I.D.	Description	Pay Item	Units	Quantity
050	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.33
051	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.89
052	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.44
053	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	1.67
054	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	2.22
055	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.28
056	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.44
057	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.22
058	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.44
059	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.44
060	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.11
061	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.11
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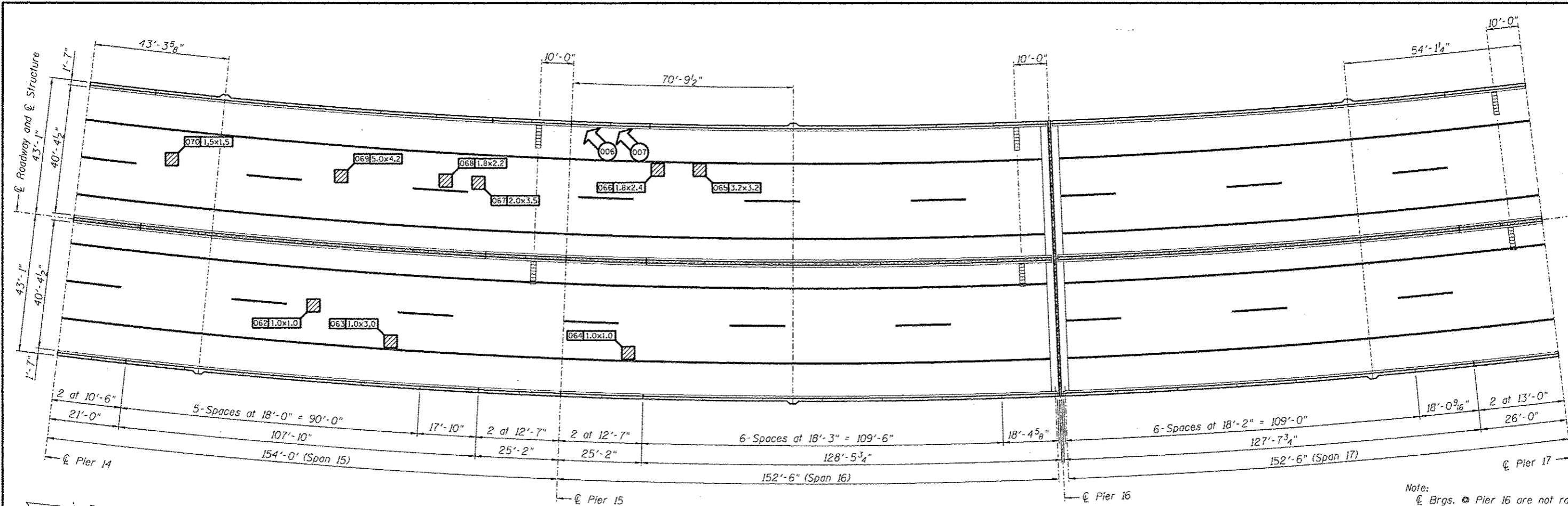
DESIGNED -
CHECKED -
DRAWN Rod
CHECKED MNM

EXAMINED	DATE
ENGINEER OF STRUCTURAL SERVICES	
PASSED	
ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REPAIRS TO - DECK SLAB and PARAPETS - SPANS 12, 13 and 14  
STRUCTURE NO. 060-0255

F.A.P. RTE. 304	SECTION 100B-IDS-1	COUNTY MADISON	TOTAL SHEETS 98	SHEET NO. 20
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				

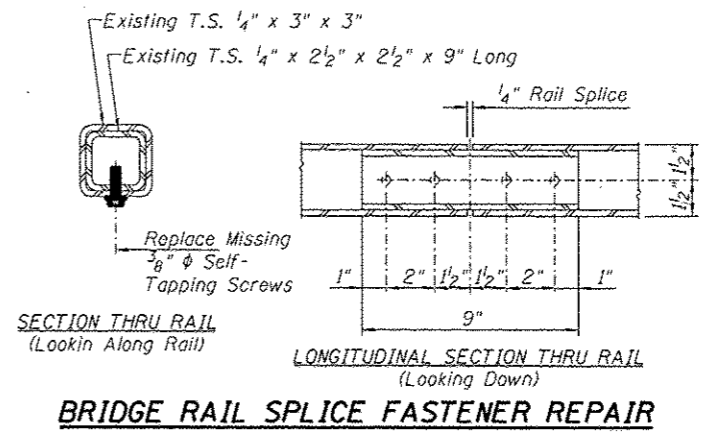
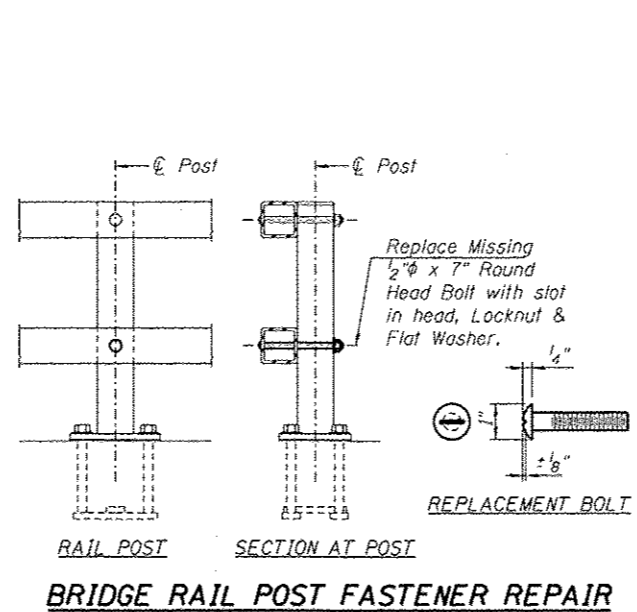


**ILLINOIS APPROACH - SPANS 15, 16 and 17**  
 (All measurements are along Girder 4 (☉ Roadway))

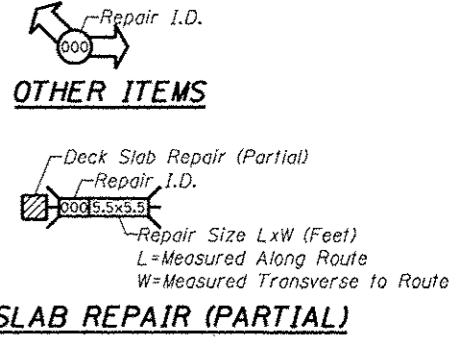
Note:  
 ☉ Brgs. @ Pier 16 are not radial lines. They are parallel to the radially placed ☉ of Pier 16 @ 1'-6" offsets.

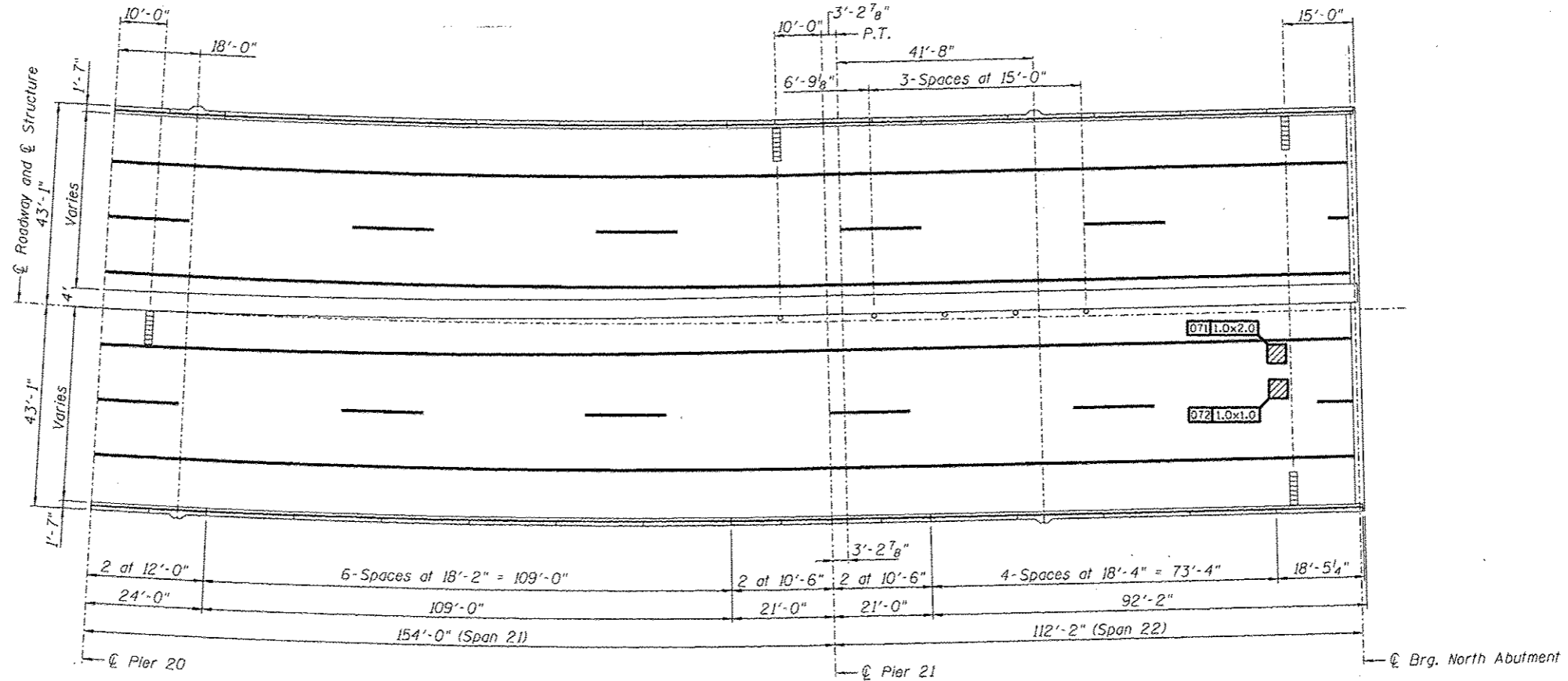
**REPAIRS LIST - SPANS 15, 16 and 17**

I.D.	Description	Pay Item	Units	Quantity
062	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.11
063	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.33
064	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.11
065	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	1.14
066	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.48
067	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.78
068	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.44
069	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	2.33
070	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.25
* 006	Missing Fasteners Bridge Rail Splice	-	-	-
* 007	Missing Fasteners Bridge Rail Splice	-	-	-



Note:  
 When necessary reposition interior splice sleeve by realigning the sleeve and rail holes for either side prior to installing new fasteners. Install 2 fasteners on one side only. Fasteners shall be self tapping galvanized screws of sufficient diameter to relap any damaged screw holes and provide a tight connection.  
 \* Cost for repairing existing bridge rail splice shall be included in the Cost of Deck Slab Repair (Partial).

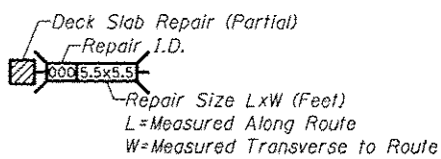




**ILLINOIS APPROACH - SPANS 21 and 22**  
 (All measurements are along Girder 4 (☐ Roadway))

**REPAIRS LIST - SPANS 21 and 22**

I.D.	Description	Pay Item	Units	Quantity
071	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.22
072	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.11
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



**DECK SLAB REPAIR (PARTIAL)**

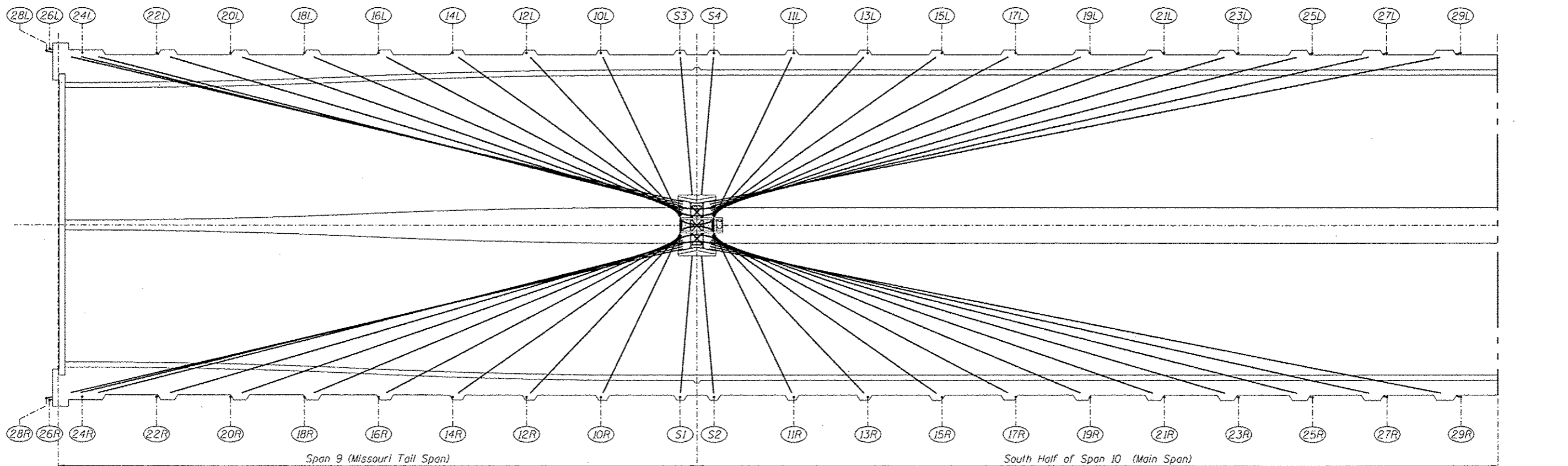
DESIGNED	EXAMINED	DATE
CHECKED	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED M/M		

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

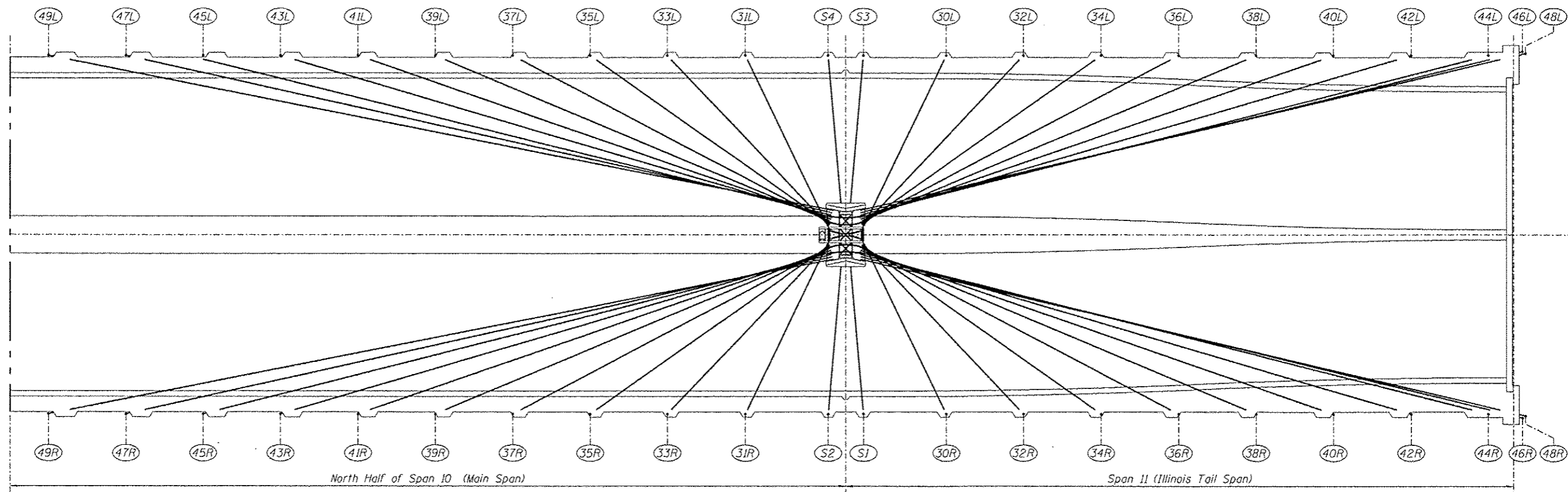
REPAIRS TO - DECK SLAB and PARAPETS - SPANS 21 and 22  
 STRUCTURE NO. 060-0255

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	22
				CONTRACT NO. 76E73





**HALF PLAN - CABLE STAY SPANS - MISSOURI HALF**



**HALF PLAN - CABLE STAY SPANS - ILLINOIS HALF**

DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEMATIC PLAN - CABLE LAYOUT and NUMBERING SEQUENCE  
STRUCTURE NO. 060-0255**

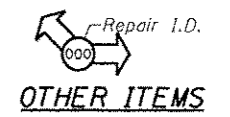
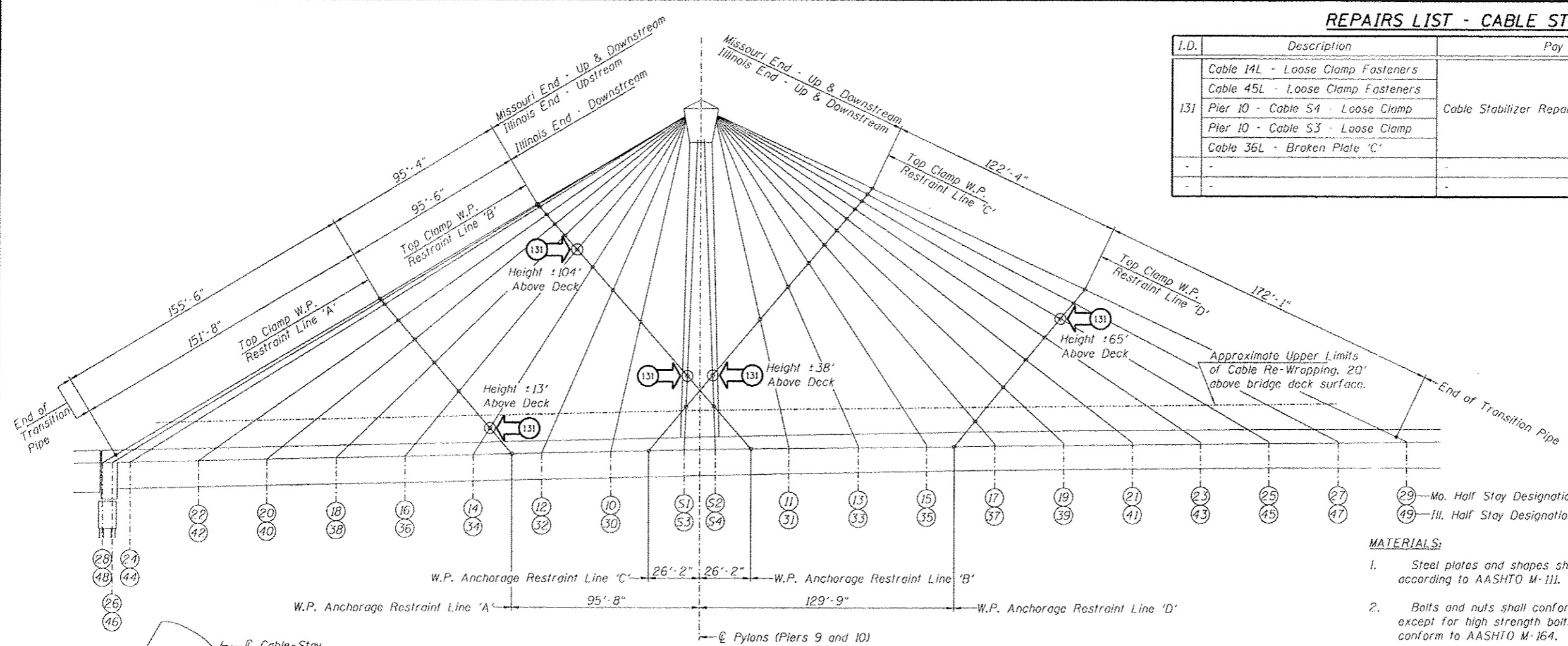
SHEET NO. 13 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	23
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				



**REPAIRS LIST - CABLE STABILIZERS**

I.D.	Description	Pay Item	Units	Quantity
	Cable 14L - Loose Clamp Fasteners	Cable Stabilizer Repairs	L Sum	1
	Cable 45L - Loose Clamp Fasteners			
131	Pier 10 - Cable S4 - Loose Clamp			
	Pier 10 - Cable S3 - Loose Clamp			
	Cable 36L - Broken Plate 'C'			



**MATERIALS:**

- Steel plates and shapes shall be galvanized, after fabrication, according to AASHTO M-111.
- Bolts and nuts shall conform to the requirements of ASTM A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.
- All bolts, nuts and washers shall be galvanized according to AASHTO M-232.

**RESTRAINT CABLE RE-INSTALLATION PROCEDURE:**

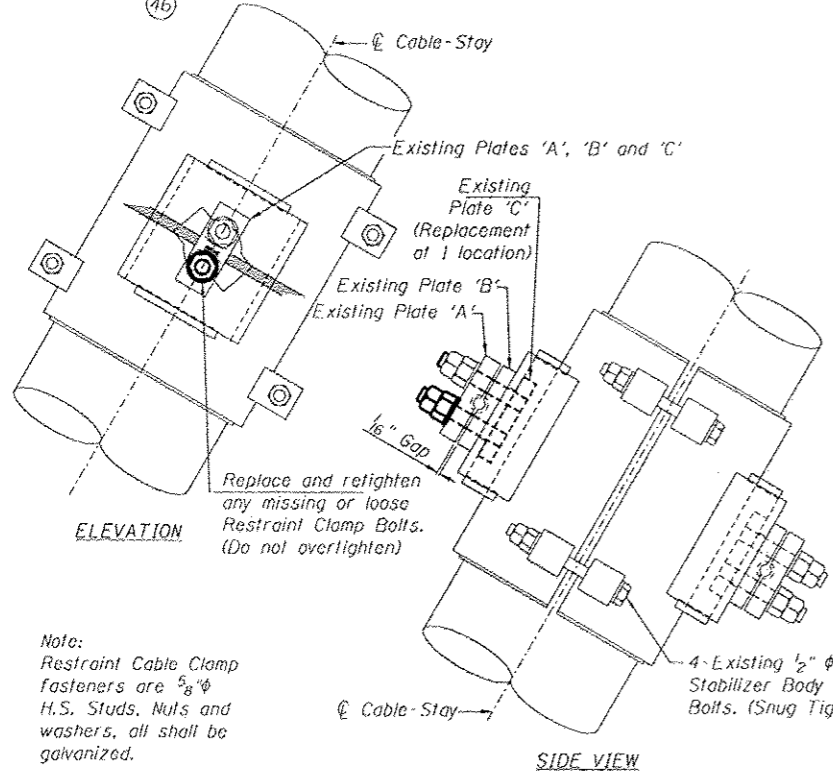
- Realign and resecure any loose or previously removed steel stabilizer clamps to affected cable stays using existing 1/2" diameter A307 bolts. It may be necessary to rotate the clamp about the centerline of the cable stay in order to obtain the correct alignment.
- Using a calibrated torque wrench tighten the four bolts which secure each clamp equally by alternating from one bolt to the other until reaching the installation torque on all four bolts. The installation torque shall be that required to tighten a test ball to a tension of 1550 lbs. The average of three test values shall determine the installation torque.
- Resecure wire ropes commencing at the highest loose or loosened clamp and proceeding downward to the lowest clamp. The wire rope should be stretched tight between the cable stays without disturbing their natural locations. Tighten nuts evenly alternating from one nut to the other. Do not over tighten to the point of damaging the wire rope.
- After reconnecting existing turnbuckles to existing tiedowns, retighten the wire rope turnbuckles, making certain to not move the cable stays from their natural locations during the final tightening operation. Tighten and clamp both wire ropes of the cable restraint system simultaneously.
- If any Tedlar Tape is damaged during the repairs to the Cable Stabilizers or installation of the Stabilizers due to cable wrapping, it shall be repaired at the Contractors expense in a manner approved by the Engineer.

**PARTIAL ELEVATION**

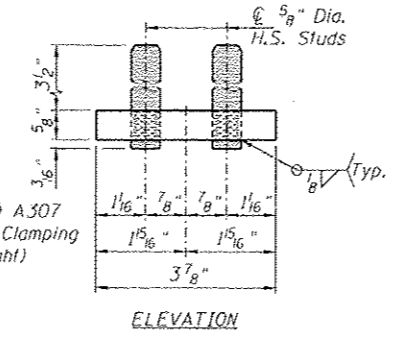
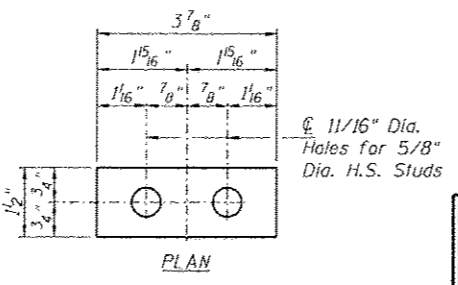
(Missouri Pylon Shown - Looking Upstream)  
 (Illinois Pylon Shown - Looking Downstream)

Note:

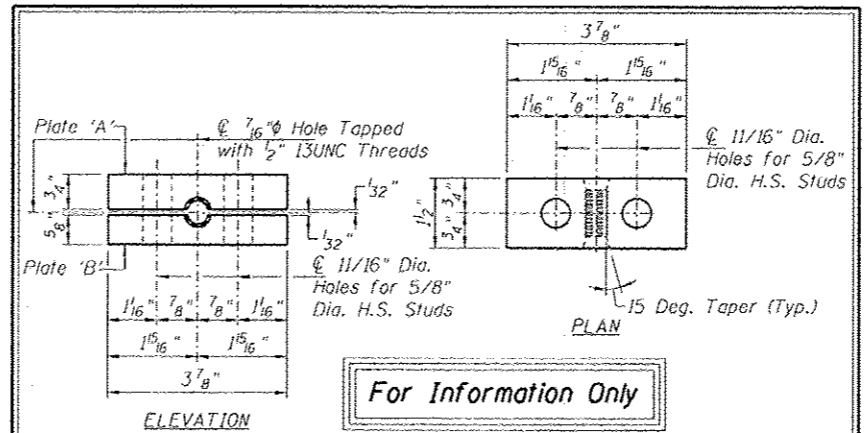
Cable numbers shown in the repair list, have been appended with either an 'L' or 'R' for Left or Right of the C, with the exception of Cables S1 thru S4. The lower Stabilizer Clamps on Restraint Lines 'A' and 'D' at Cables 14L, 14R, 17L, 17R, 34L, 34R, 37L and 37R must be removed during Cable Wrapping to facilitate a continuous run of wrapping material from start to finish. If the Wire Rope Restraint is loosened or unfastened, see adjacent notes below for Reinstallation. Cost for removal and reinstallation these Stabilizer Clamps shall be included in the cost of "Cable Wrapping".



Note:  
 Restraint Cable Clamp fasteners are 5/8" H.S. Studs, Nuts and washers, all shall be galvanized.



**REPLACEMENT PLATE 'C' - DETAILS**



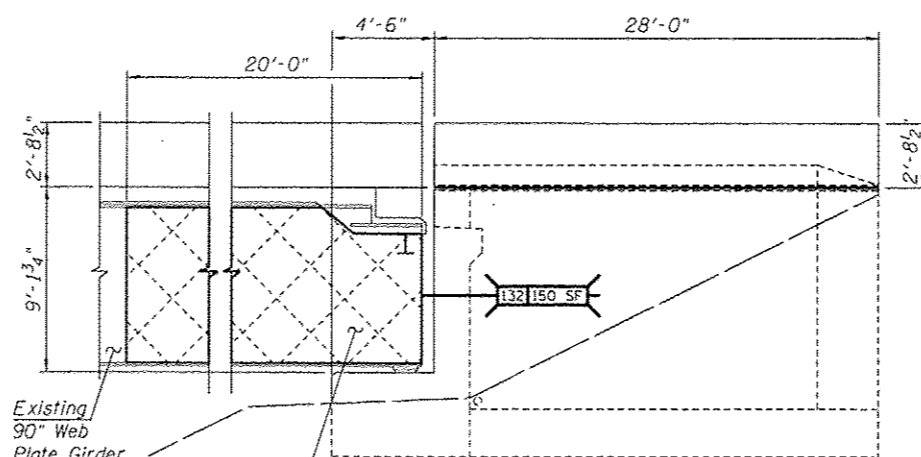
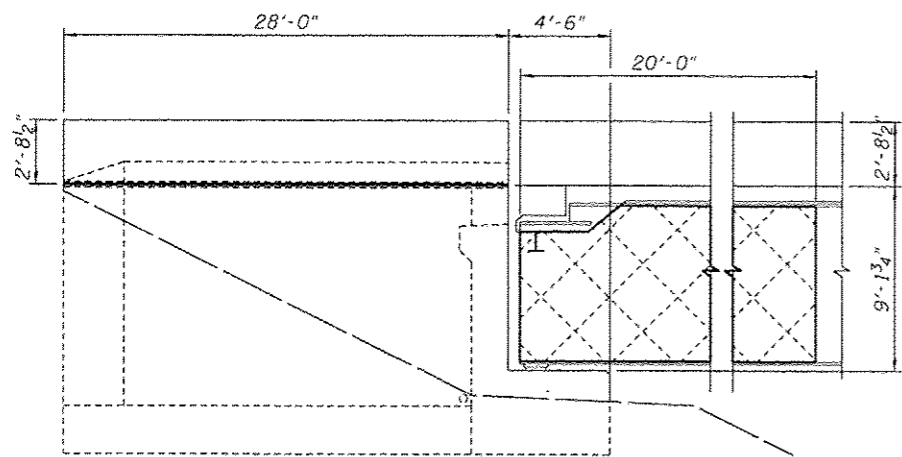
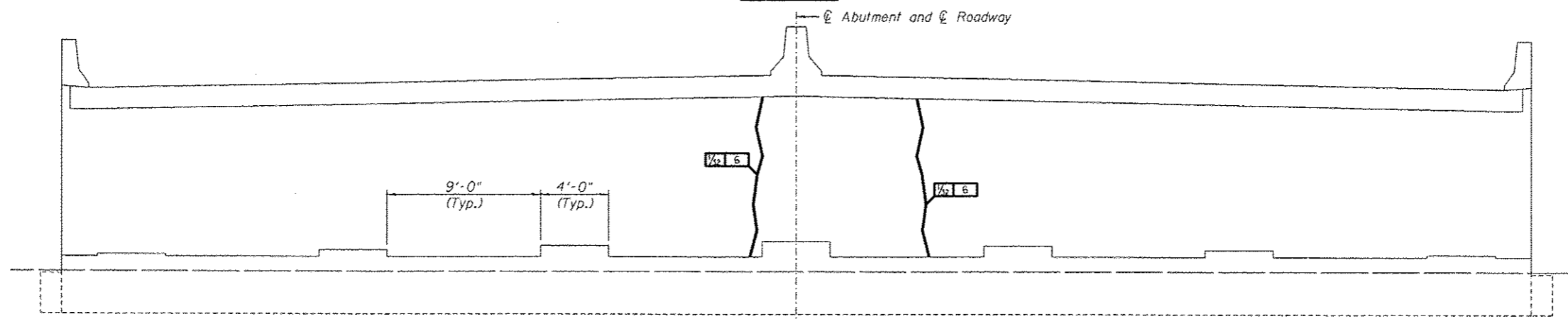
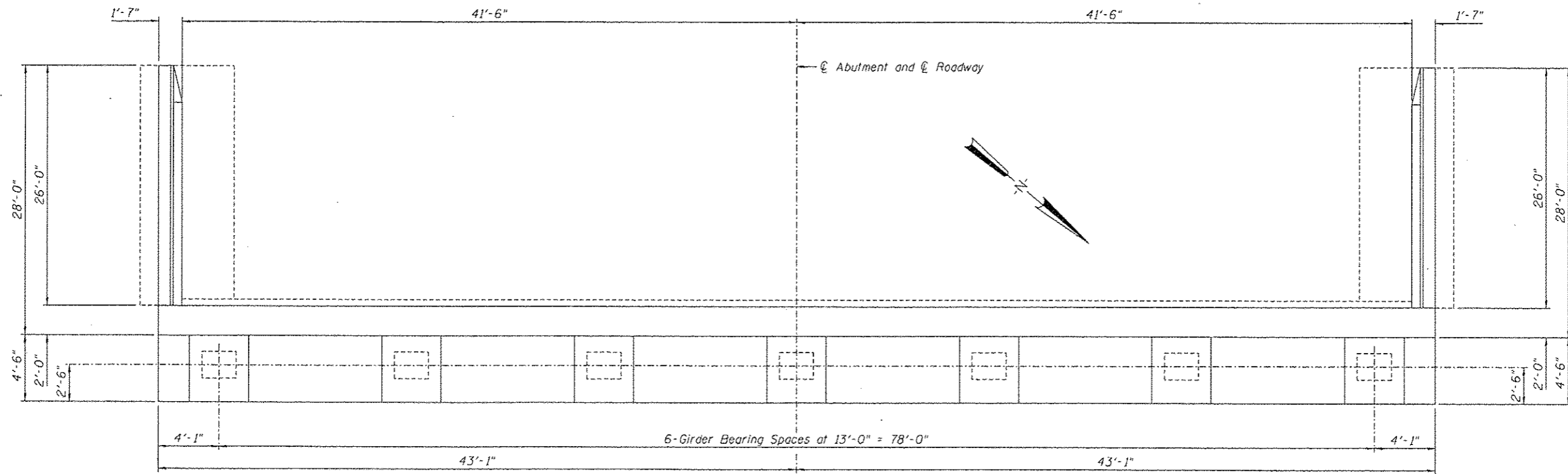
**DETAILS - EXISTING PLATES 'A' and 'B'**

DESIGNED	EXAMINED	DATE
CHECKED	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED MNM		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

REPAIRS TO - CSS - CABLE STABILIZERS  
 STRUCTURE NO. 060-0255

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-105-1	MADISON	58	25
CONTRACT NO. 76E73				



Graffiti Removal  
 Repair, I.D.  
 132 22 SF  
 Repair Area Sq. Ft.

**GRAFFITI REMOVAL**

HL 12 Crack Length (Feet)  
 Crack Width (Inches)

**CRACKS < 1/16"**  
 Hairline Cracks (HL) or  
 Cracks < 1/16" not to be Sealed.

**REPAIRS LIST - SOUTH ABUTMENT**

I.D.	Description	Pay Item	Units	Quantity
132	Beams 1-7, Each Web Face	Graffiti Removal	SQ. YD.	233.3

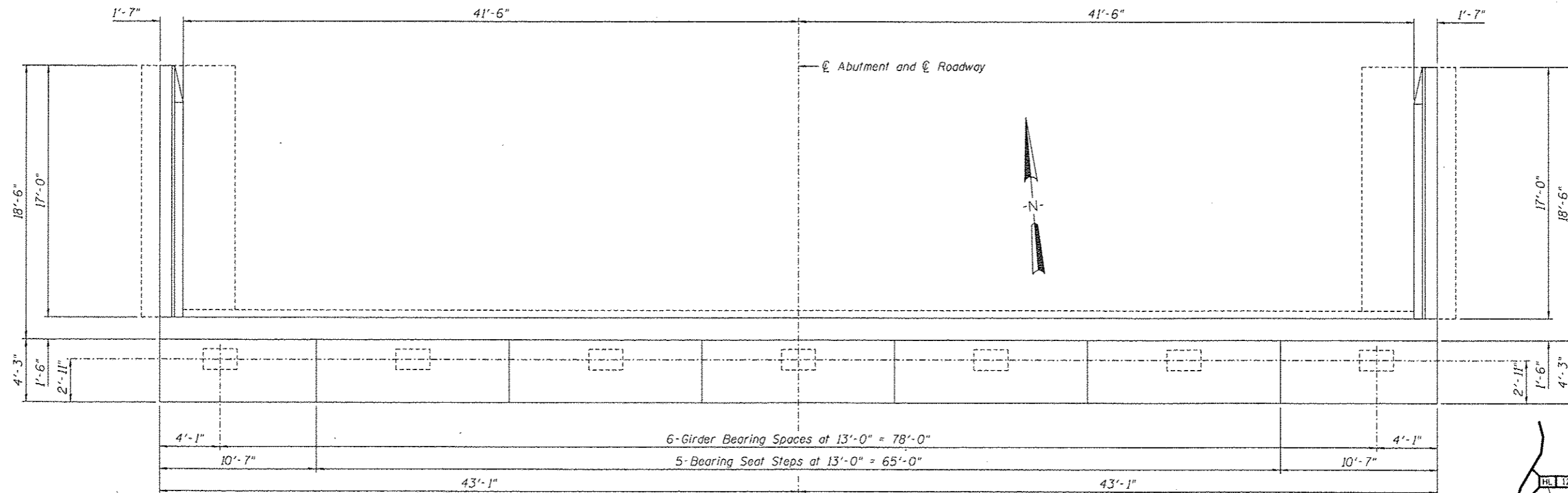
DESIGNED -	EXAMINED	DATE
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED MNM		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

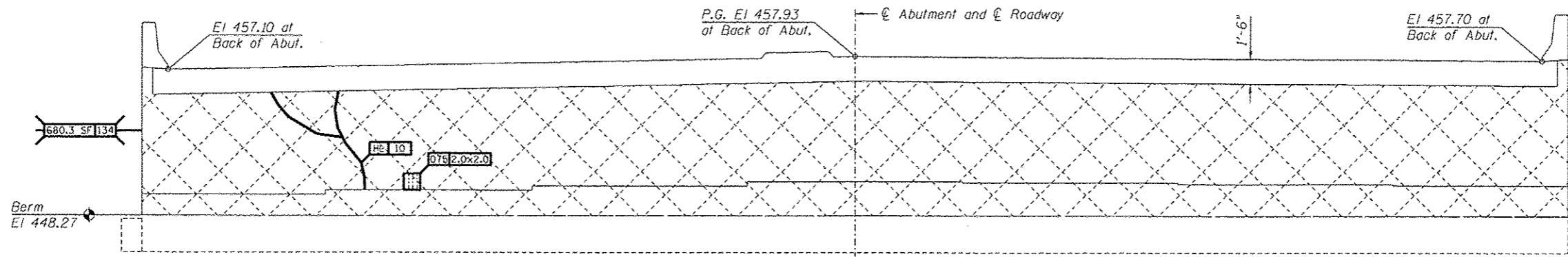
REPAIRS TO - SOUTH ABUTMENT  
 STRUCTURE NO. 060-0255

SHEET NO. 16 OF 48 SHEETS

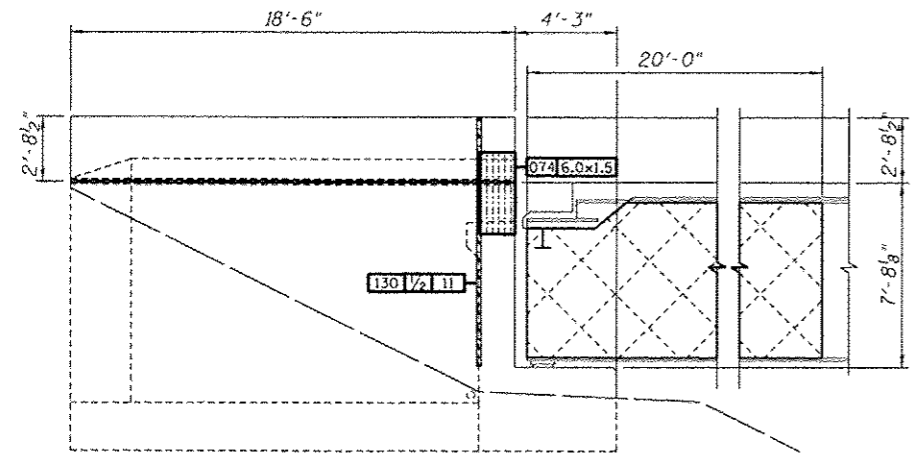
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-IDS-1	MADISON	58	26
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	



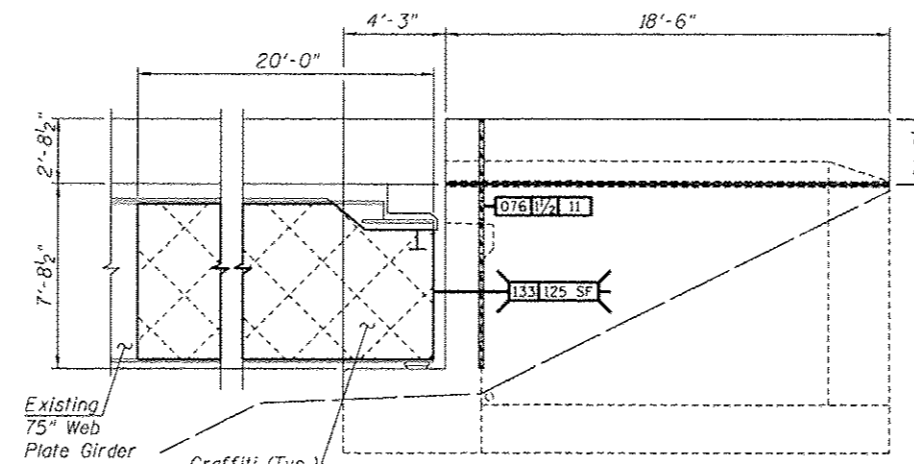
**TOP PLAN**



**ELEVATION**  
Looking North



**WINGWALL ELEVATION**  
West Wing



**WINGWALL ELEVATION**  
East Wing

HL 12 - Crack Length (Feet)  
Crack Width (Inches)

**CRACKS < 1/16"**  
Hairline Cracks (HL) or  
Cracks < 1/16" not to be Sealed.

Graffiti Removal  
Repair I.D.  
008 22 SF - Repair Area Sq. Ft.

**GRAFFITI REMOVAL**

Repair I.D.  
000 1 1/2 12 - Joint Length (Feet)  
Joint Width (Inches)

**POLYURETHANE SEALANT**

Structural Repair of Concrete  
Repair I.D.  
008 5.5x5.5 - Repair Size LxW (Feet)  
L=Measured Vertical  
W=Measured Horizontal

**STRUCTURAL REPAIR OF CONCRETE**

Note:  
Sealant shall be Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25, use T, with a 5/8" backer rod.

**REPAIRS LIST - NORTH ABUTMENT**

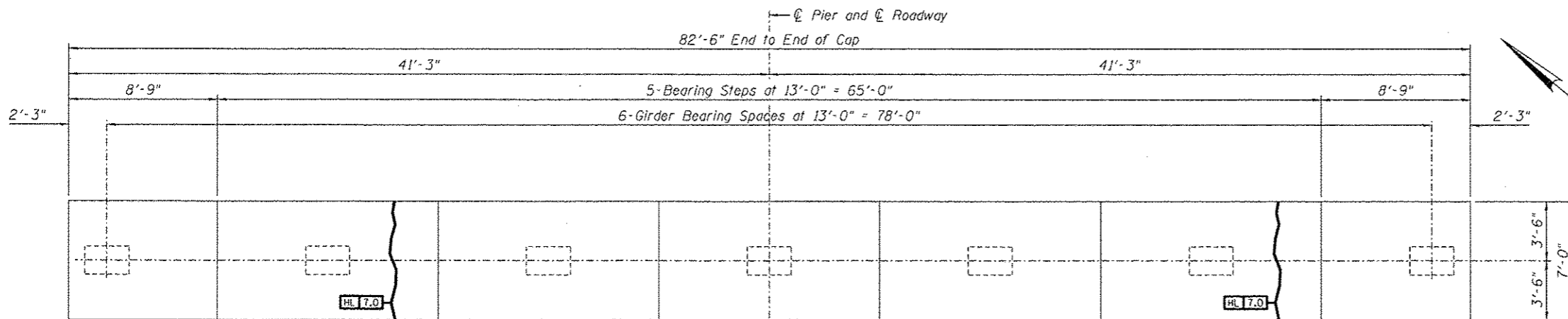
I.D.	Description	Pay Item	Units	Quantity
074	Delamination West End Backwall	Structural Repair of Concrete (Depth equal to or less than 5 Inches)	SQ. FT.	9.0
075	Spall on Backwall Near Girder 2 Brg.	Structural Repair of Concrete (Depth equal to or less than 5 Inches)	SQ. FT.	4.0
076	Backwall / Wingwall East End	Polyurethane Sealant	FOOT	11
130	Backwall / Wingwall West End	Polyurethane Sealant	FOOT	11
133	Beams 1-7, Each Web Face	Graffiti Removal	SQ. YD.	194.4
134	Backwall and Front Face Cap	Graffiti Removal	SQ. YD.	75.6

DESIGNED	EXAMINED	DATE
CHECKED	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

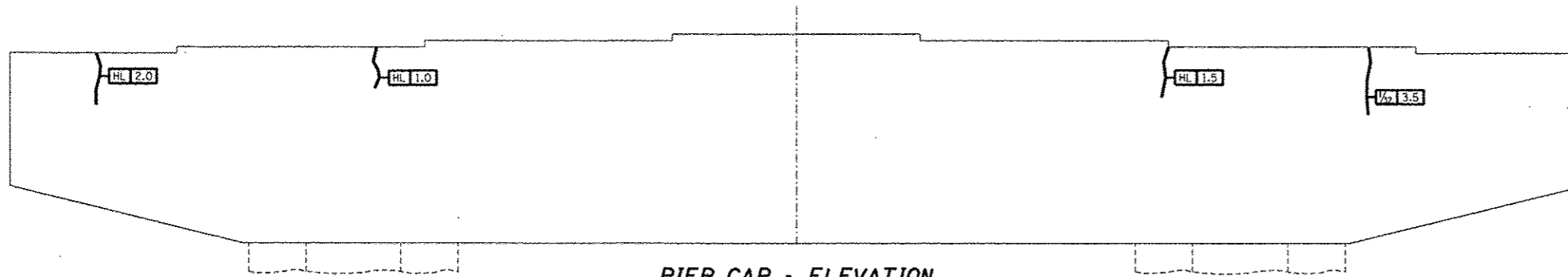
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REPAIRS TO - NORTH ABUTMENT  
STRUCTURE NO. 060-0255

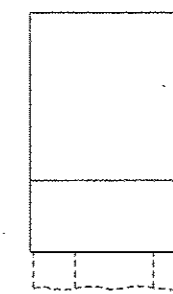
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	1008-105-1	MADISON	58	27
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				



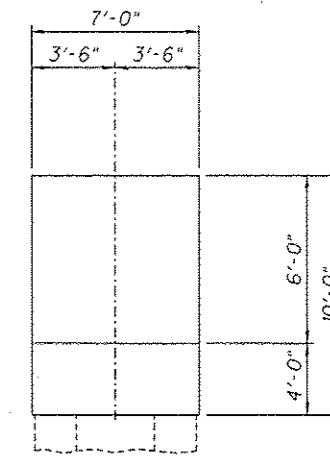
PIER CAP - PLAN - PIER 1



PIER CAP - ELEVATION  
Looking North

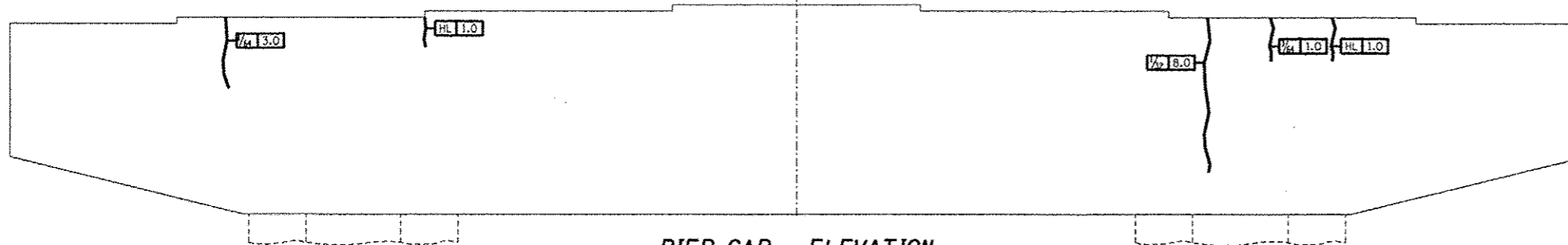


WEST END FACE

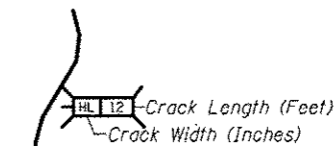


EAST END FACE

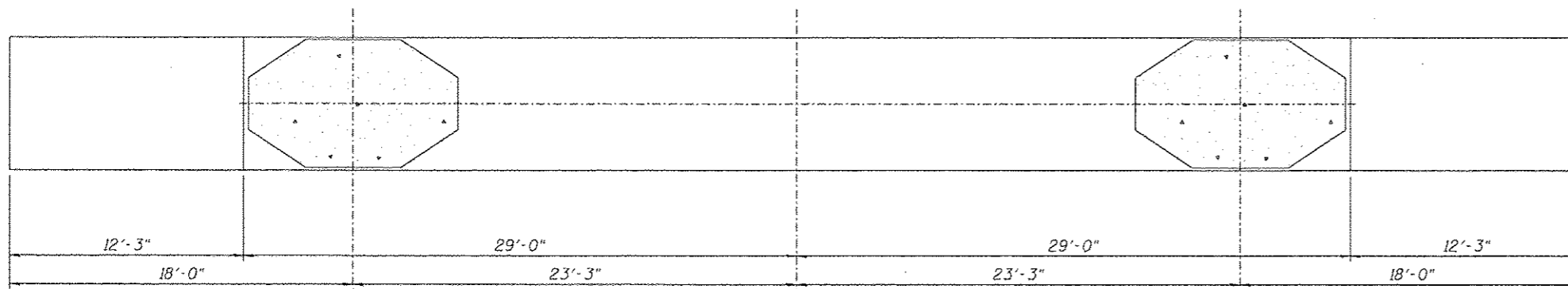
PIER CAP - END ELEVATIONS



PIER CAP - ELEVATION  
Looking South

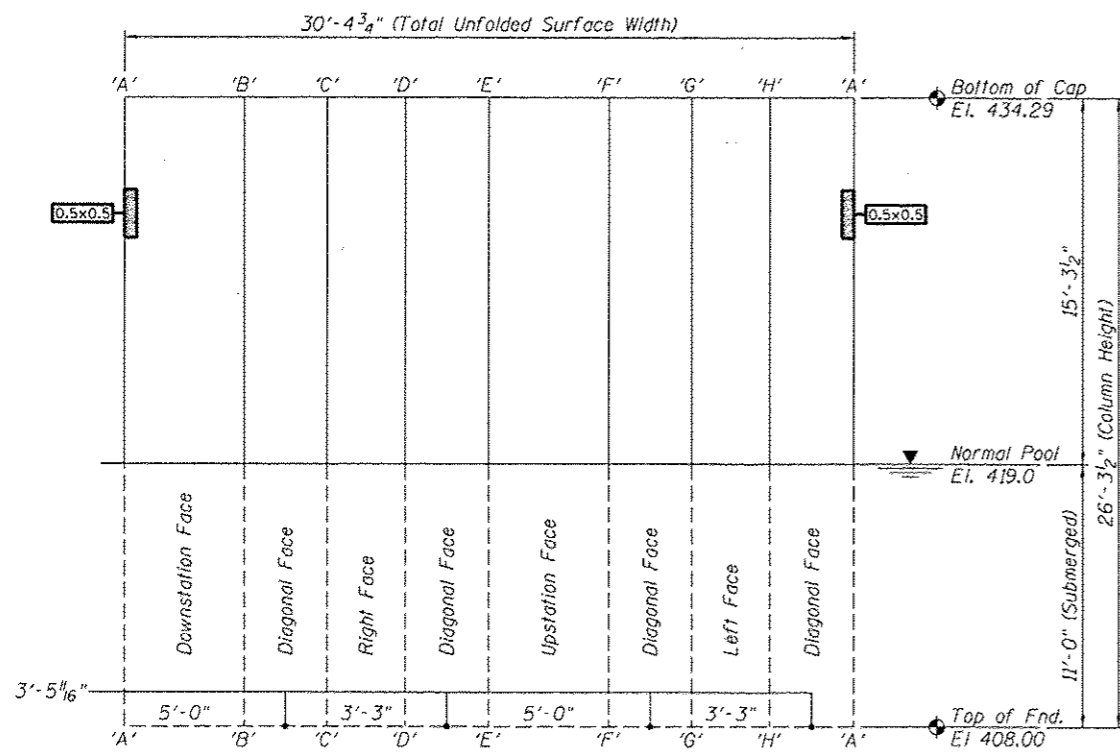


**CRACKS < 1/16"**  
Hairline Cracks (HL) or  
Cracks < 1/16" not to be Sealed.

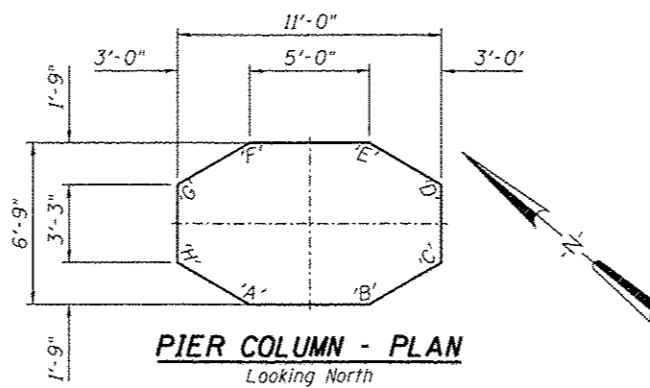


PIER CAP - UNDERSIDE

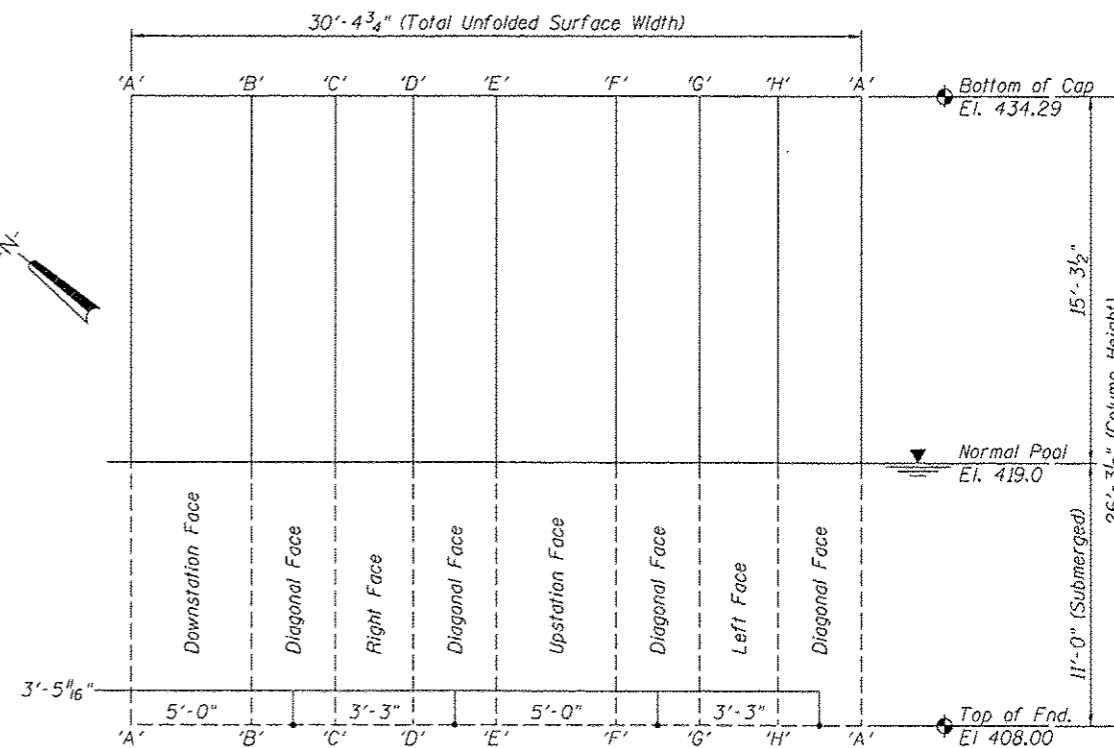
DESIGNED -	EXAMINED -	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIRS TO - PIER NUMBER 1 - CAP STRUCTURE NO. 060-0255	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED -	ENGINEER OF STRUCTURAL SERVICES				304	100B-1DS-1	MADISON	58	28	
DRAWN - Rod	PASSED -				CONTRACT NO. 76E73					
CHECKED - MNM	ENGINEER OF BRIDGES AND STRUCTURES				ILLINOIS FED. AID PROJECT					
					SHEET NO. 18 OF 48 SHEETS					



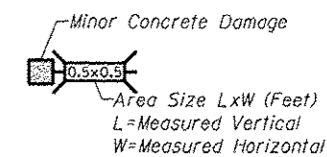
**PIER NO. 1 - ELEVATION - LEFT COLUMN**  
 Column Surface Shown Unfolded



**PIER COLUMN - PLAN**  
 Looking North



**PIER NO. 1 - ELEVATION - RIGHT COLUMN**  
 Column Surface Shown Unfolded



**MINOR CONCRETE DAMAGE**  
 (Not to be Repaired)

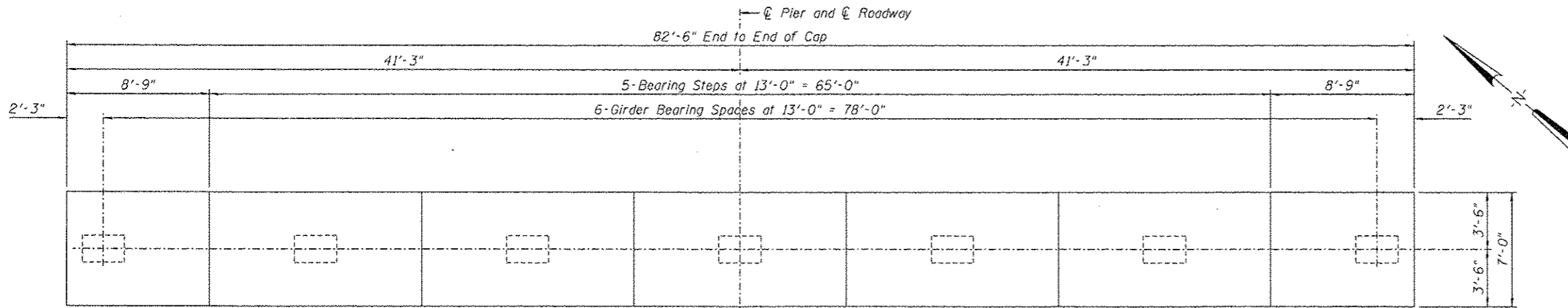
DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

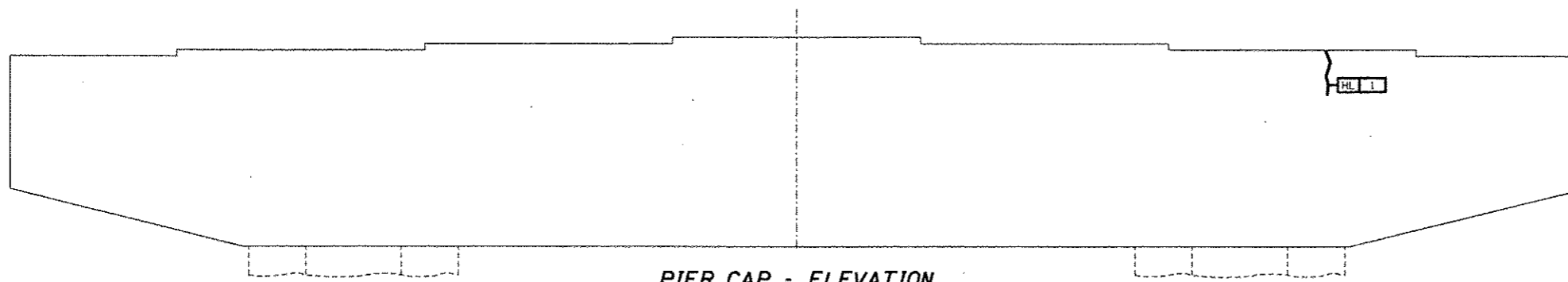
REPAIRS TO - PIER NUMBER 1 - COLUMNS  
 STRUCTURE NO. 060-0255

SHEET NO. 19 OF 48 SHEETS

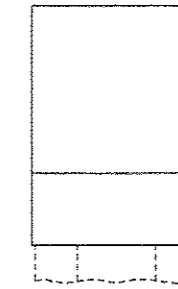
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-10S-1	MADISON	58	29
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				



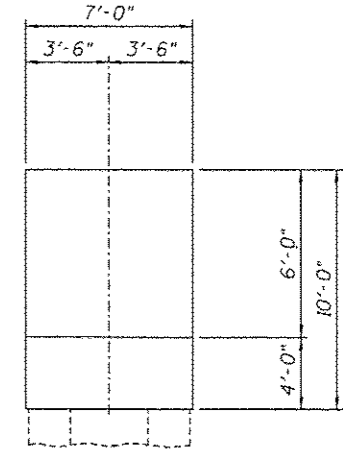
**PIER CAP - PLAN - PIER 2**



**PIER CAP - ELEVATION**  
Looking North

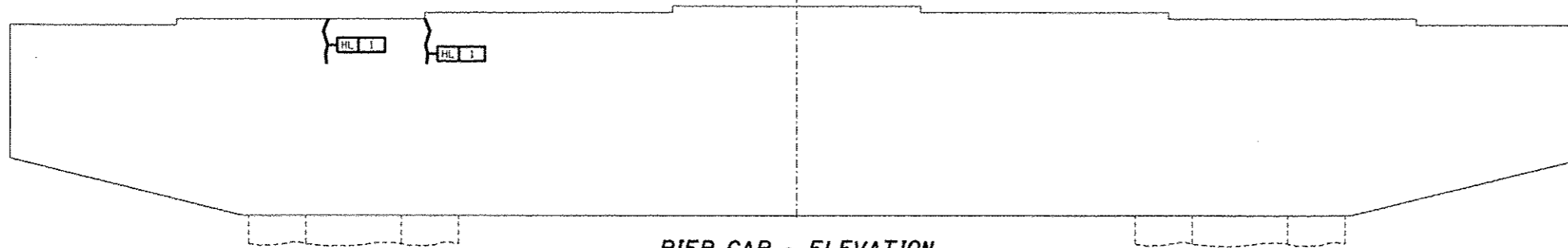


WEST END FACE

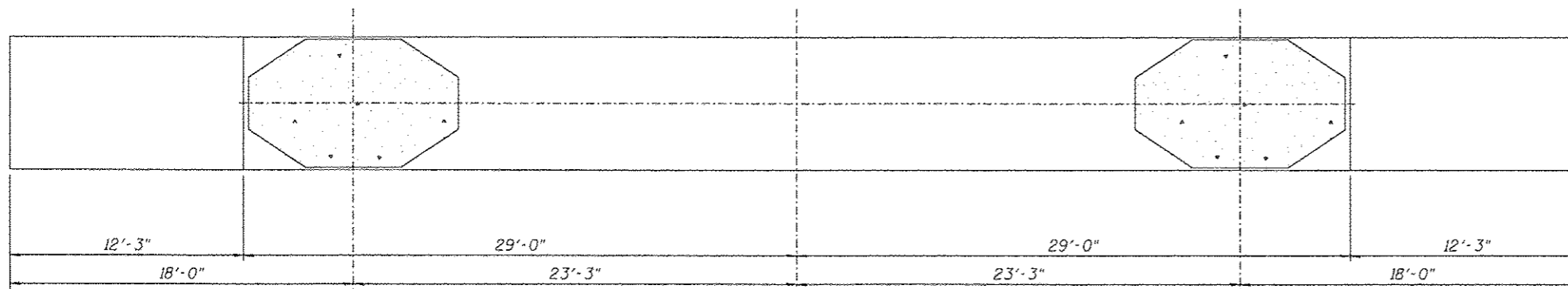
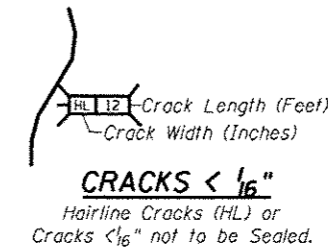


EAST END FACE

**PIER CAP - END ELEVATIONS**



**PIER CAP - ELEVATION**  
Looking South



**PIER CAP - UNDERSIDE**

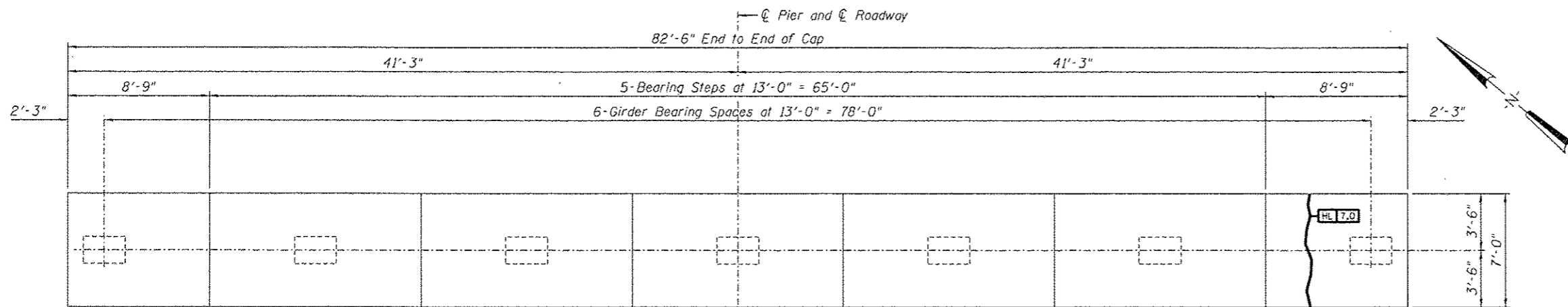
DESIGNED -	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

<b>STATE OF ILLINOIS</b>	
<b>DEPARTMENT OF TRANSPORTATION</b>	

<b>REPAIRS TO - PIER NUMBER 2 - CAP</b>	
<b>STRUCTURE NO. 060-0255</b>	
SHEET NO. 20 OF 48 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-1DS-1	MADISON	58	30
CONTRACT NO. 76E73				
ILLINOIS FED. AID PROJECT				

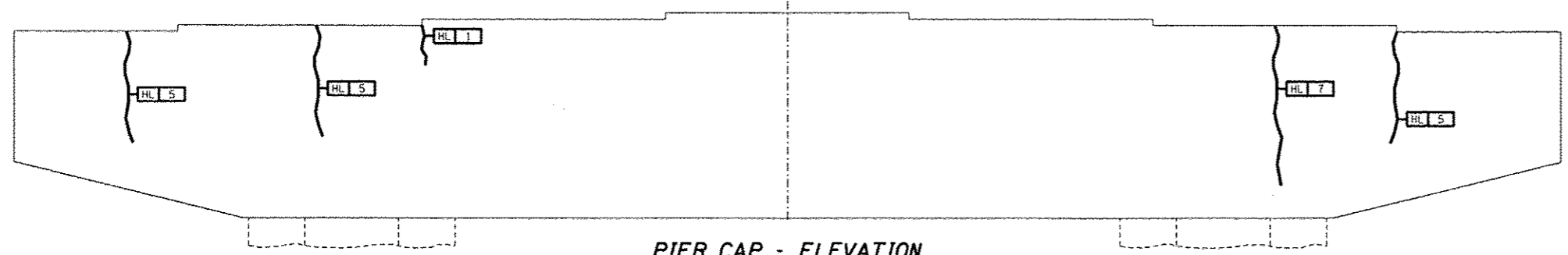




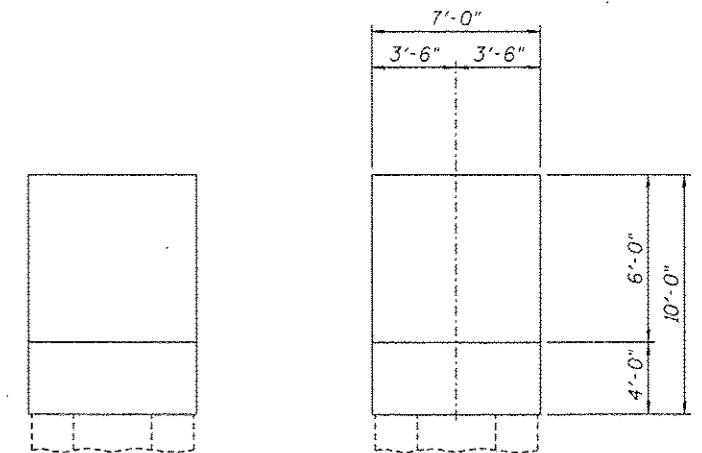
**PIER CAP - PLAN - PIER 3**



**PIER CAP - ELEVATION**  
Looking North

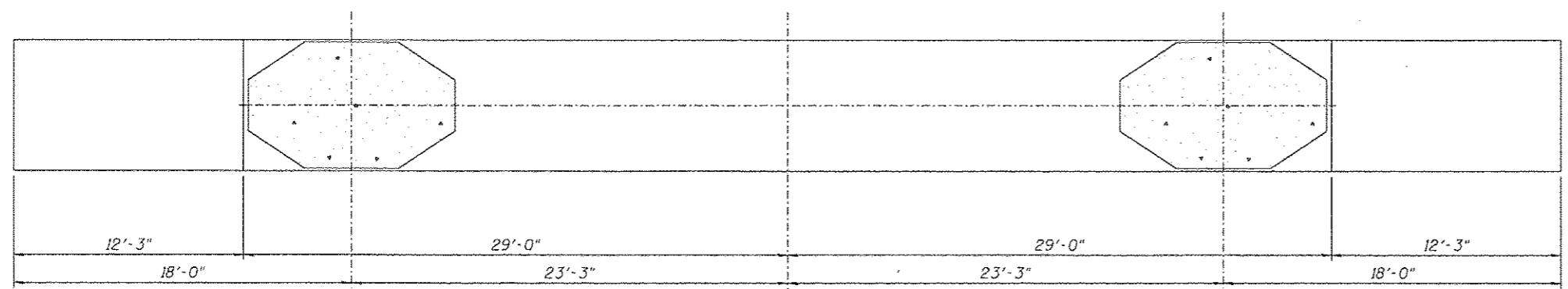


**PIER CAP - ELEVATION**  
Looking South



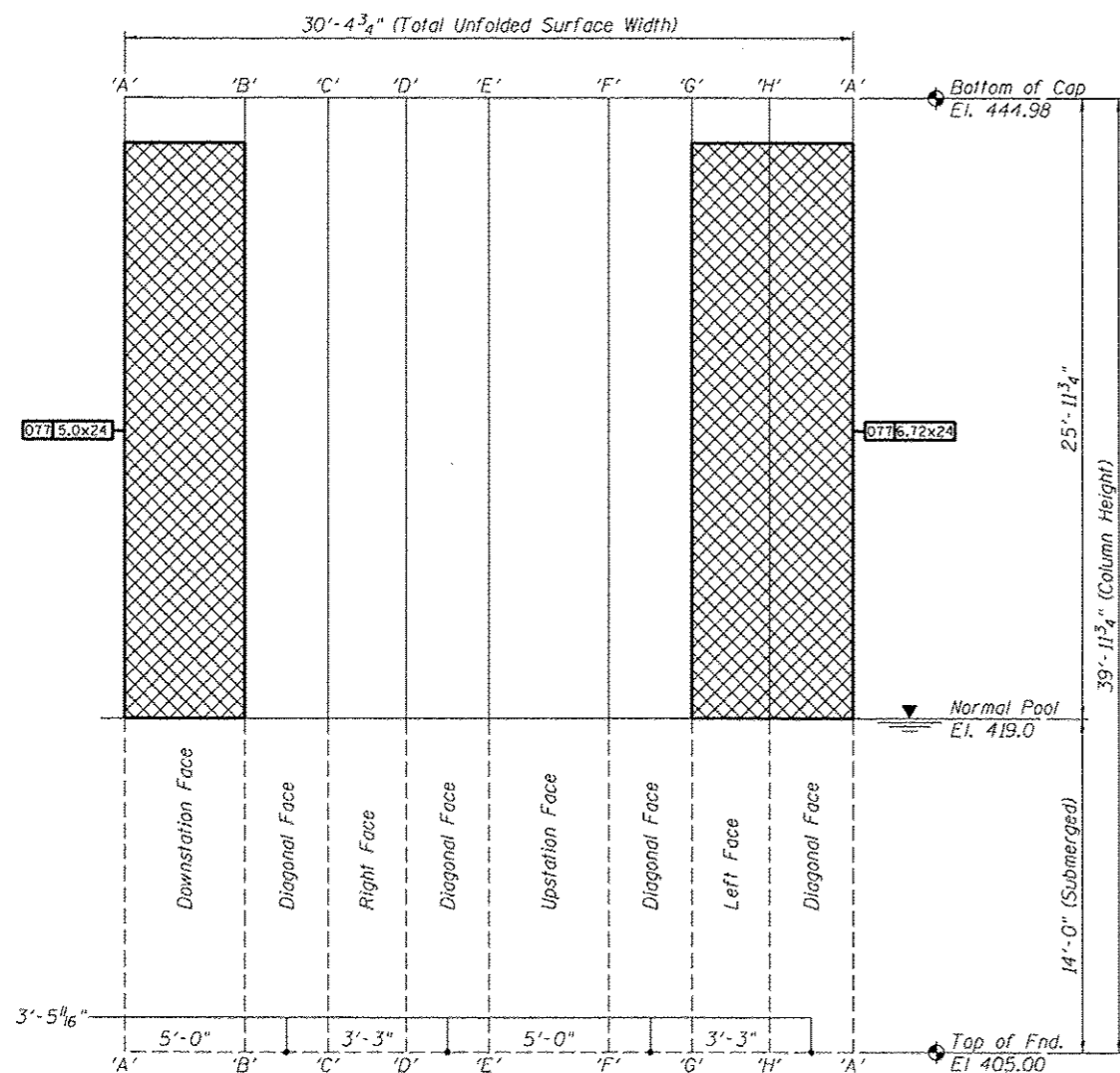
**PIER CAP - END ELEVATIONS**  
WEST END FACE EAST END FACE

HL 12 - Crack Length (Feet)  
 Crack Width (Inches)  
**CRACKS < 1/16"**  
 Hairline Cracks (HL) or  
 Cracks < 1/16" not to be Sealed.

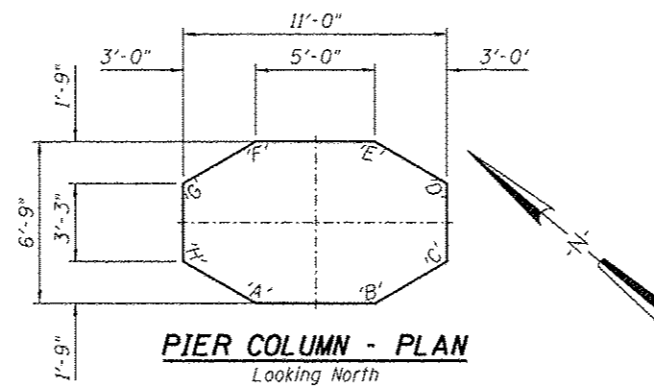


**PIER CAP - UNDERSIDE**

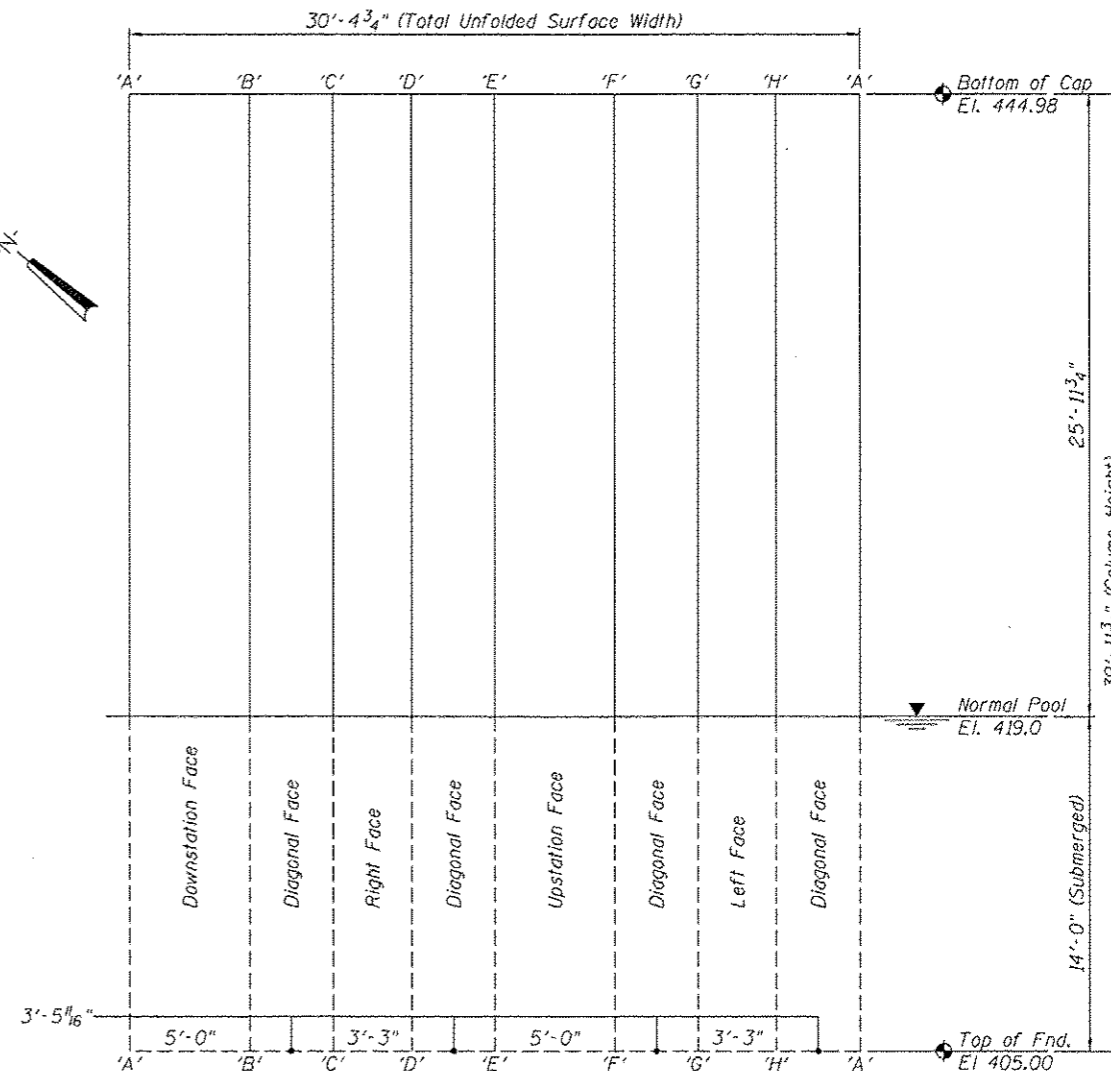
DESIGNED	EXAMINED	DATE	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIRS TO - PIER NUMBER 3 - CAP</b> <b>STRUCTURE NO. 060-0255</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED	ENGINEER OF STRUCTURAL SERVICES				304	1008-105-1	MADISON	58	31	
DRAWN Rod	PASSED				SHEET NO. 21 OF 48 SHEETS		CONTRACT NO. 76E73		ILLINOIS FED. AID PROJECT	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES									



**PIER NO. 3 - ELEVATION - LEFT COLUMN**  
 Column Surface Shown Unfolded



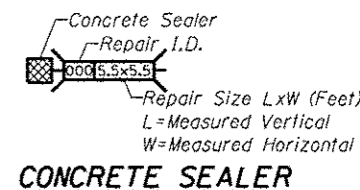
**PIER COLUMN - PLAN**  
 Looking North



**PIER NO. 3 - ELEVATION - RIGHT COLUMN**  
 Column Surface Shown Unfolded

**REPAIRS LIST - PIER 3 - COLUMNS**

I.D.	Description	Pay Item	Units	Quantity
077	Map Cracking	Concrete Sealer	SQ. FT.	120.0
077	Map Cracking	Concrete Sealer	SQ. FT.	161.3
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



**CONCRETE SEALER**

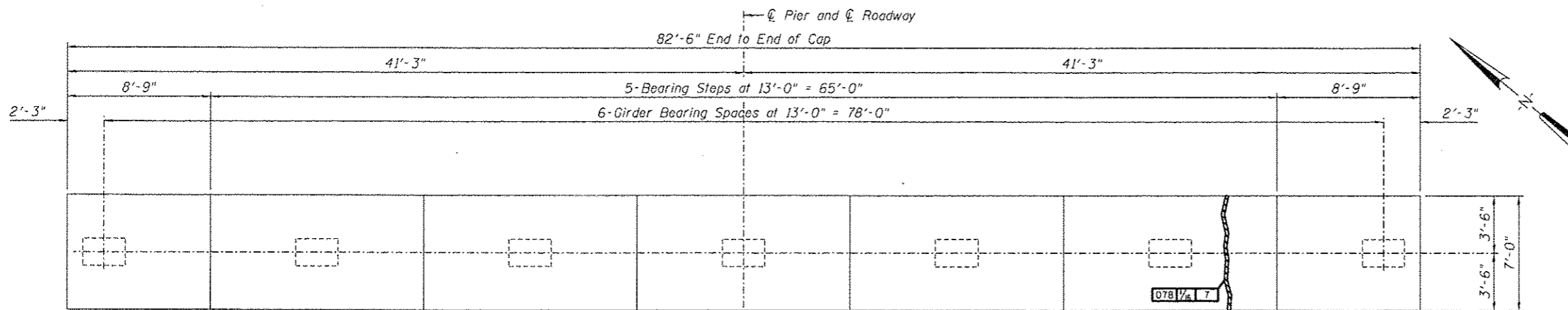
DESIGNED -	EXAMINED -	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

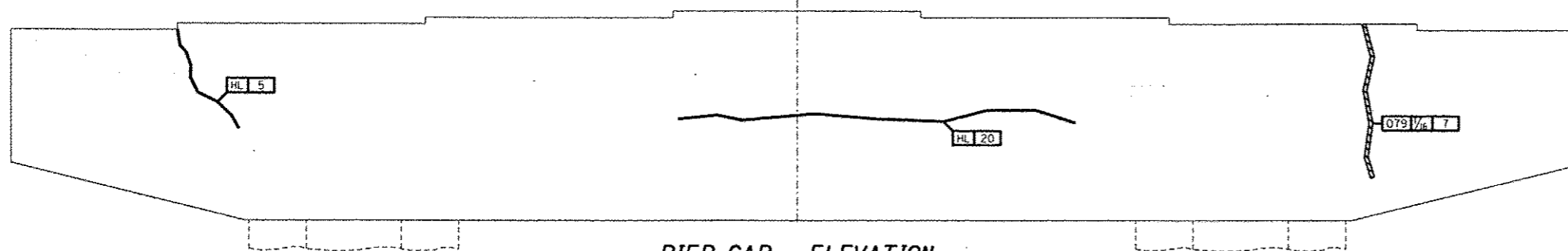
REPAIRS TO - PIER NUMBER 3 - COLUMNS  
 STRUCTURE NO. 060-0255

SHEET NO. 22 OF 48 SHEETS

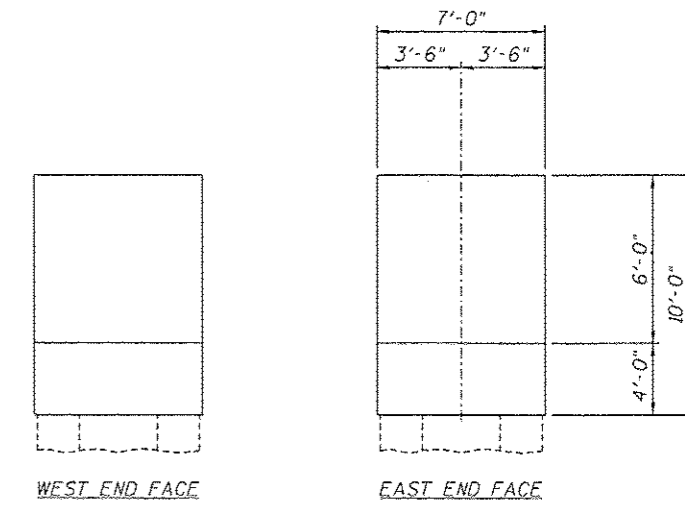
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-10S-1	MADISON	58	32
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	



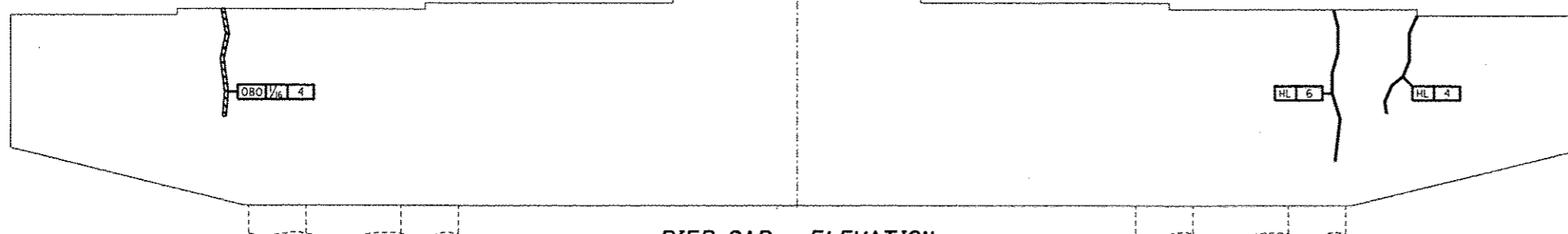
**PIER CAP - PLAN - PIER 4**



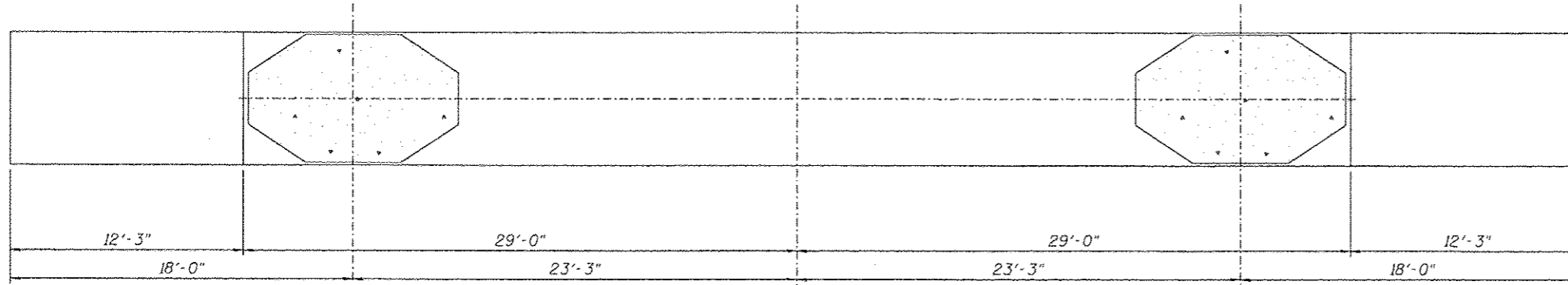
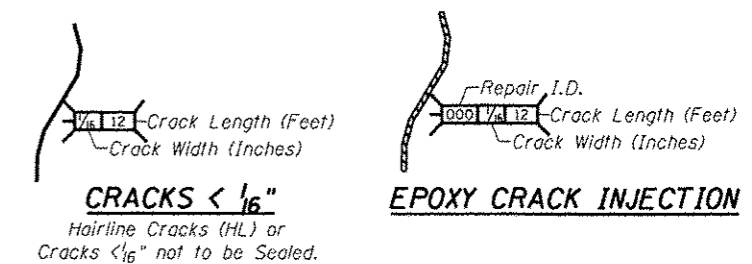
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - END ELEVATIONS**



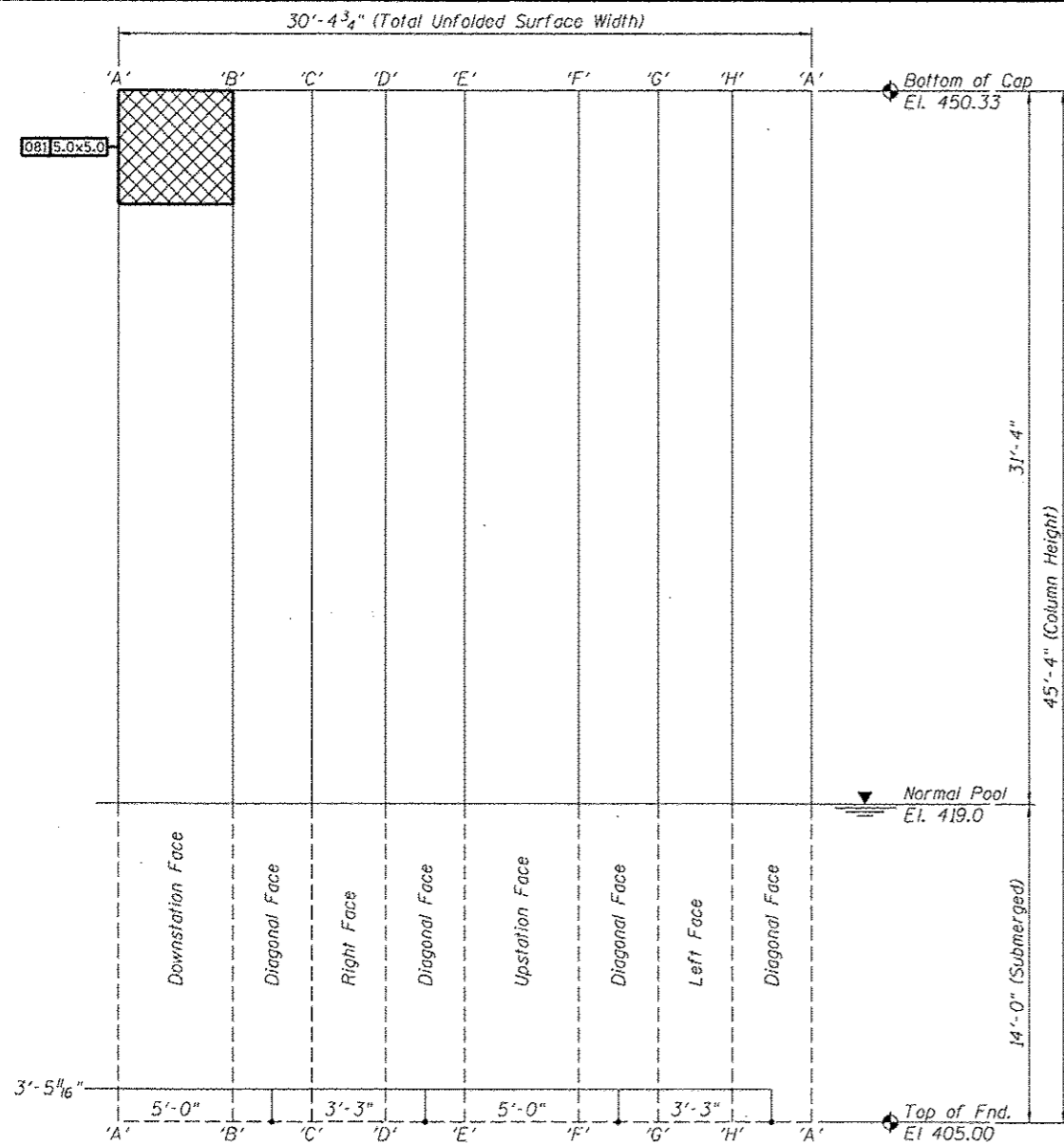
**PIER CAP - ELEVATION**  
Looking South



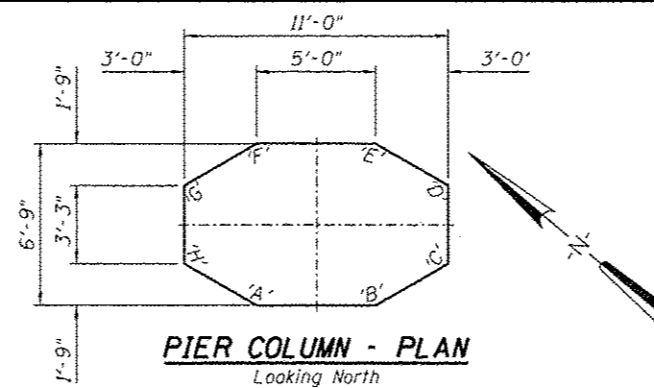
**PIER CAP - UNDERSIDE**

**REPAIRS LIST - PIER 4 - CAP**

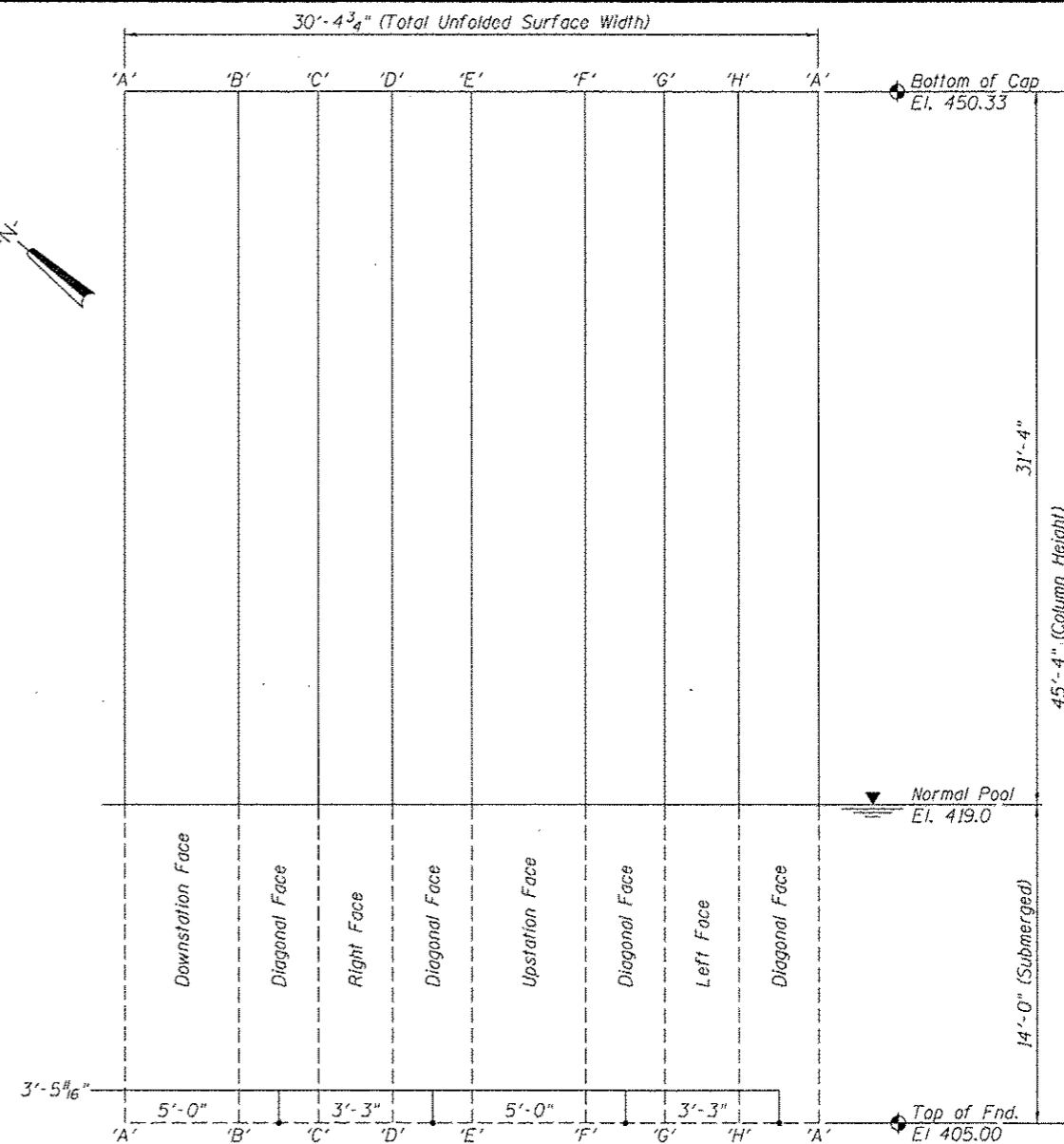
I.D.	Description	Pay Item	Units	Quantity
078	Cracks > 1/16"	Epoxy Crack Injection	FOOT	7
079	Cracks > 1/16"	Epoxy Crack Injection	FOOT	7
080	Cracks > 1/16"	Epoxy Crack Injection	FOOT	4
-	-	-	-	-
-	-	-	-	-



**PIER NO. 4 - ELEVATION - LEFT COLUMN**  
Column Surface Shown Unfolded



**PIER COLUMN - PLAN**  
Looking North



**PIER NO. 4 - ELEVATION - RIGHT COLUMN**  
Column Surface Shown Unfolded

**REPAIRS LIST - PIER 4 - COLUMNS**

I.D.	Description	Pay Item	Units	Quantity
081	Map Cracking	Concrete Sealer	SQ. FT.	25.0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Concrete Sealer  
 Repair I.D.  
 009 5.5x5.5  
 Repair Size LxW (Feet)  
 L=Measured Vertical  
 W=Measured Horizontal

**CONCRETE SEALER**

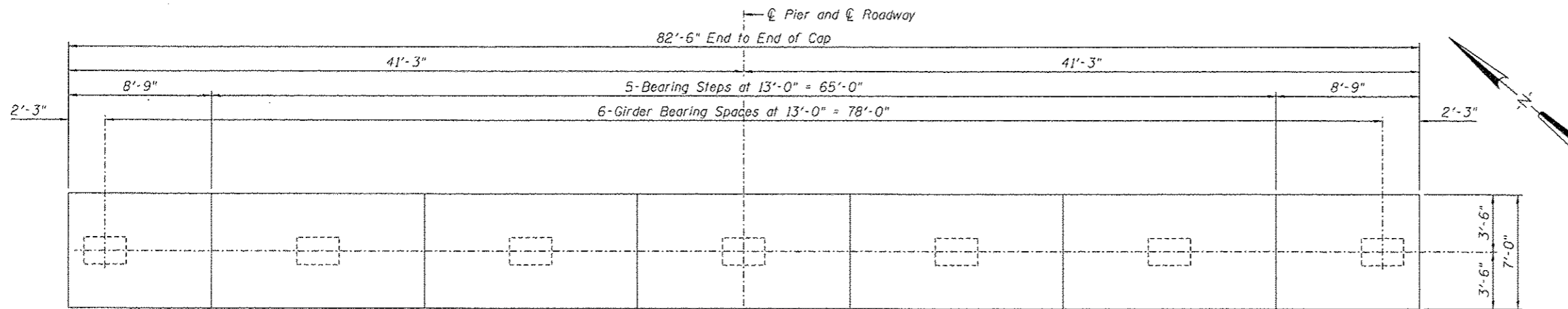
DESIGNED -	EXAMINED -	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED -	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

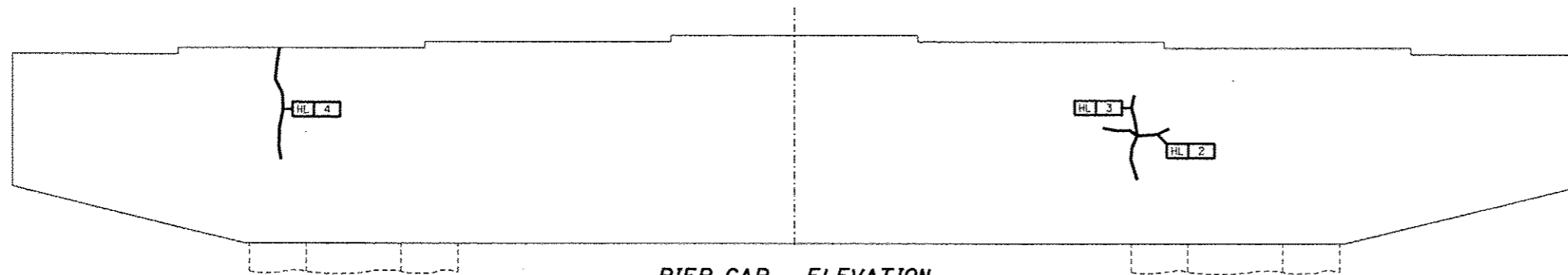
**REPAIRS TO - PIER NUMBER 4 - COLUMNS  
 STRUCTURE NO. 060-0255**

SHEET NO. 24 OF 48 SHEETS

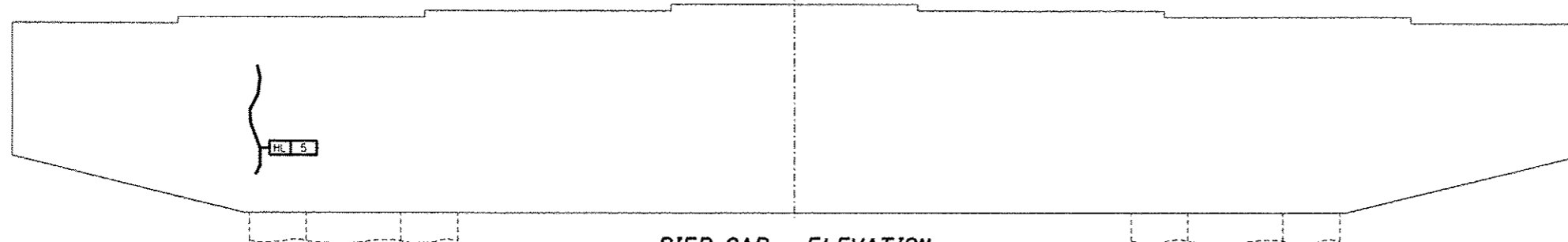
F.A.P. RTE. 304	SECTION 100B-105-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 34
			CONTRACT NO. 76E73	
ILLINOIS FED. AID PROJECT				



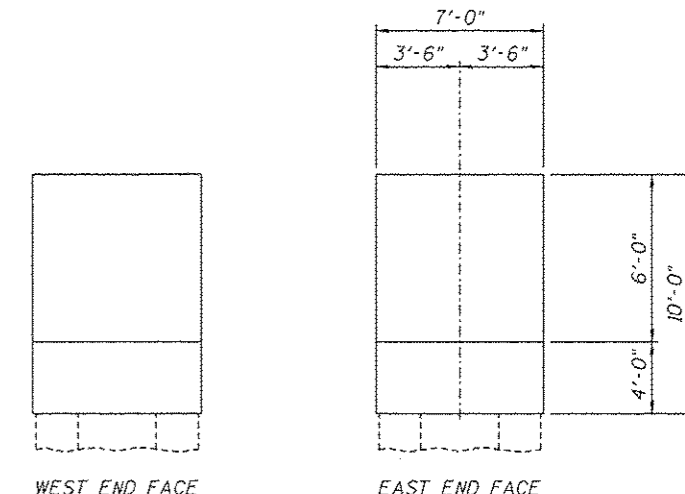
**PIER CAP - PLAN - PIER 5**



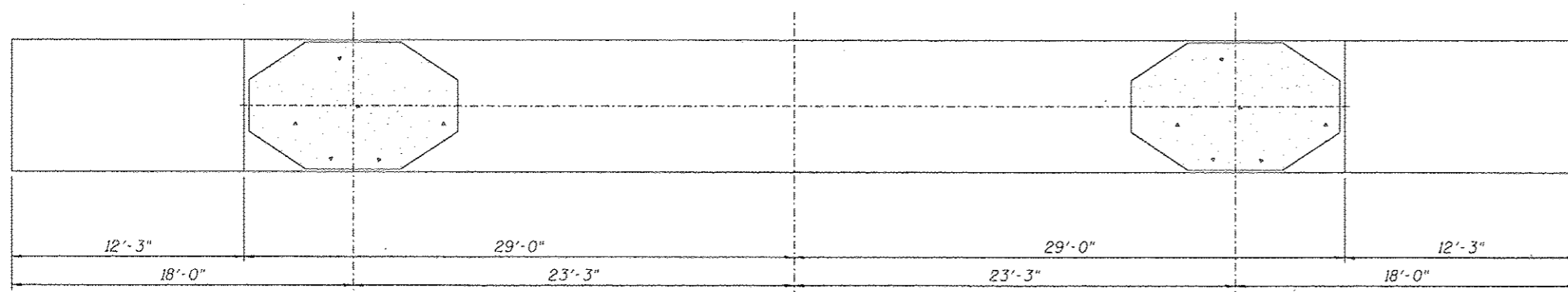
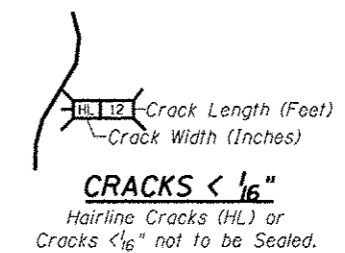
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - ELEVATION**  
Looking South

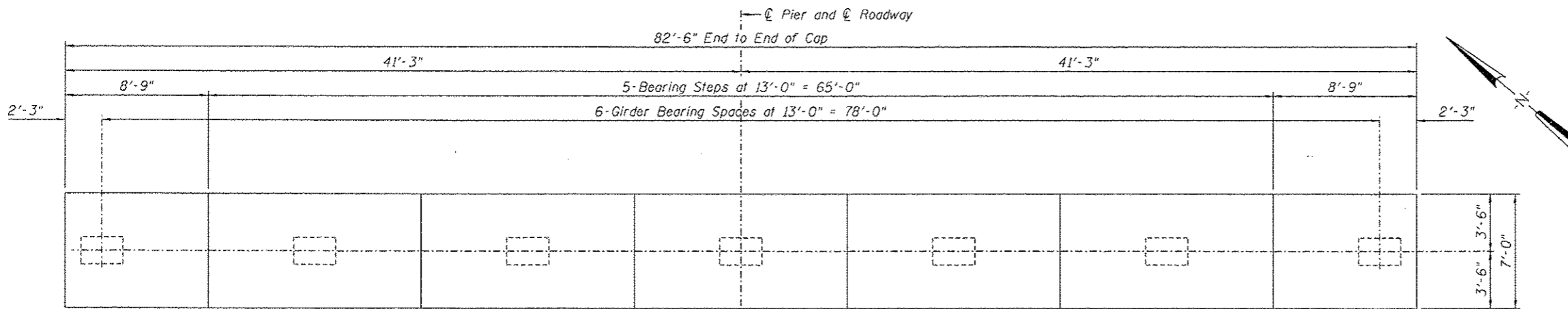


**PIER CAP - END ELEVATIONS**

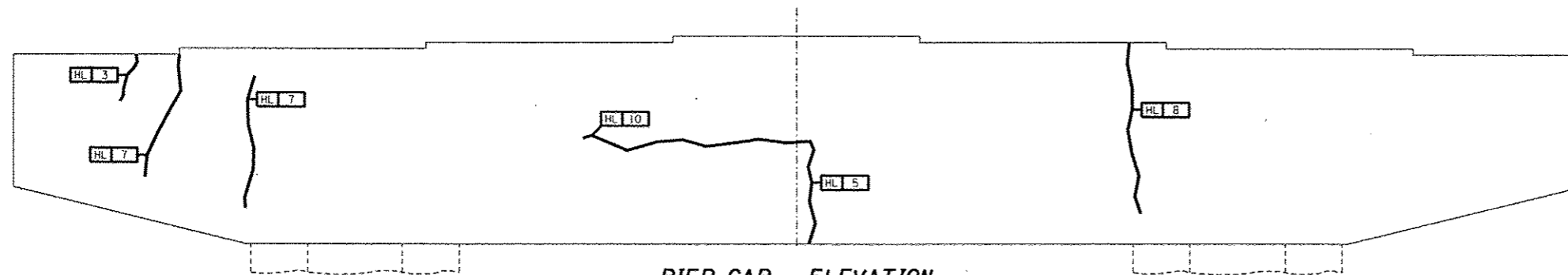


**PIER CAP - UNDERSIDE**

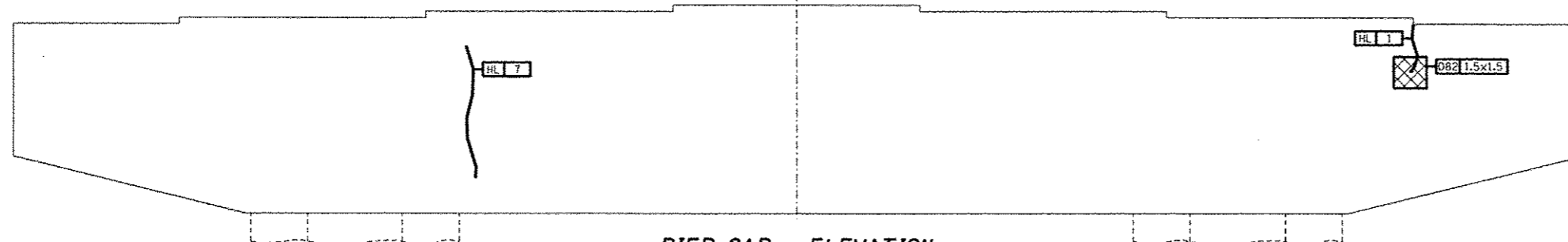
DESIGNED -	EXAMINED -	DATE -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIRS TO - PIER NUMBER 5 - CAP</b> <b>STRUCTURE NO. 060-0255</b>		F.A.P. RTE. 304	SECTION 100B-10S-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 35
CHECKED -	ENGINEER OF STRUCTURAL SERVICES									
DRAWN Rod	PASSED									
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES									
			SHEET NO. 25 OF 48 SHEETS		ILLINOIS FED. AID PROJECT					



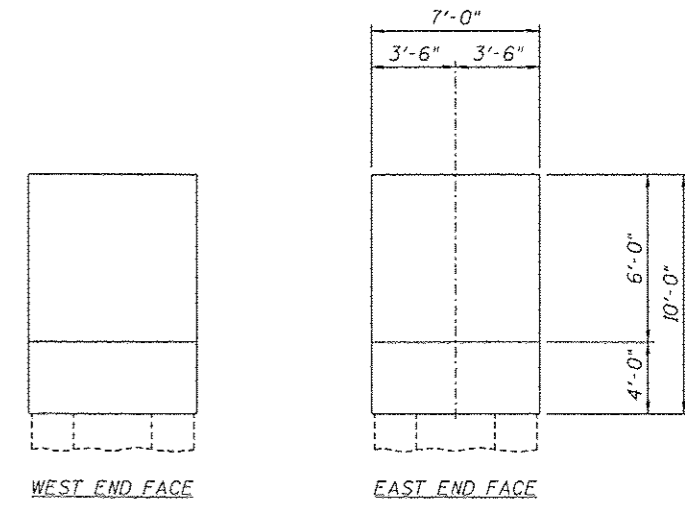
**PIER CAP - PLAN - PIER 6**



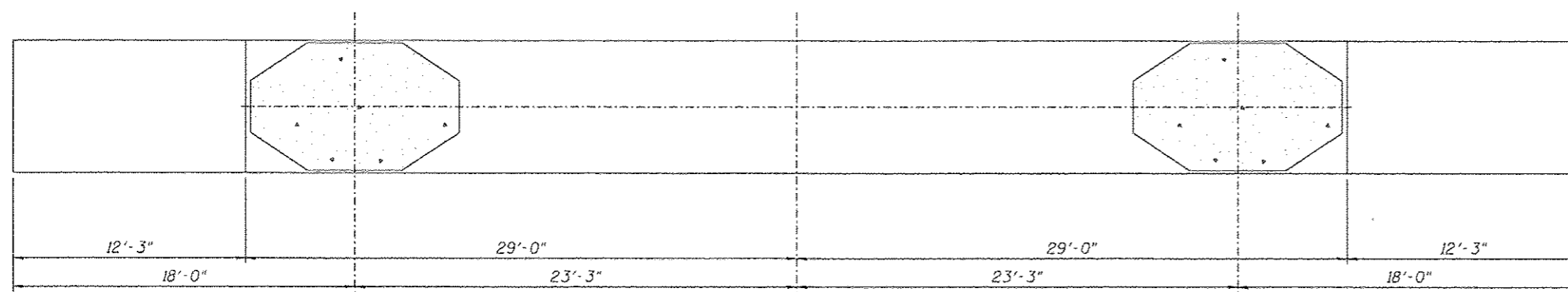
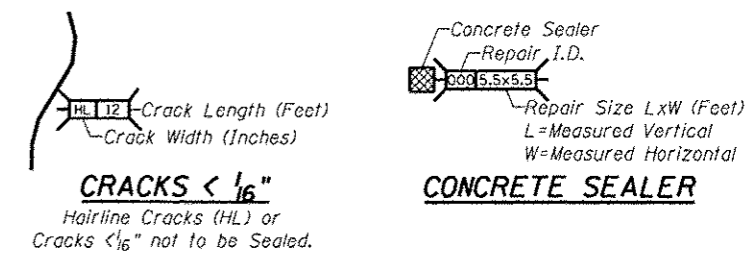
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - ELEVATION**  
Looking South



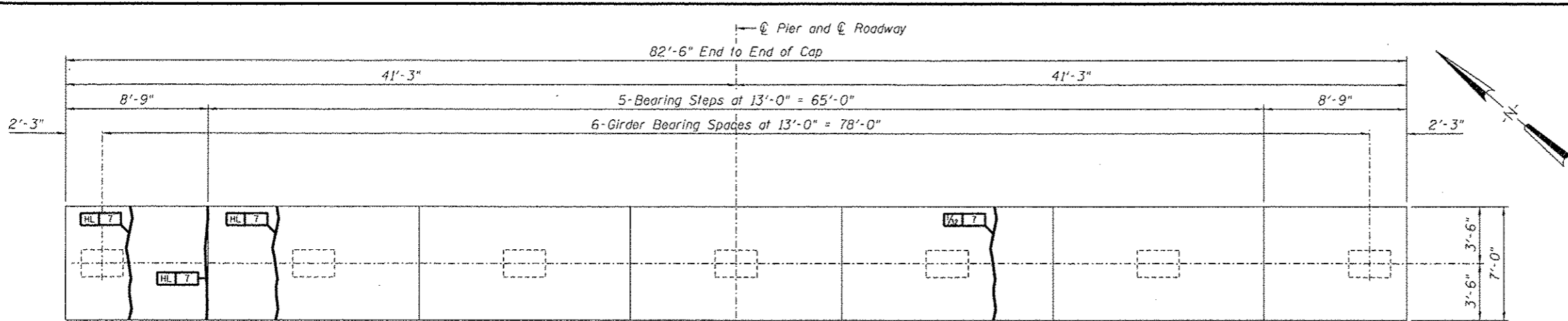
**PIER CAP - END ELEVATIONS**



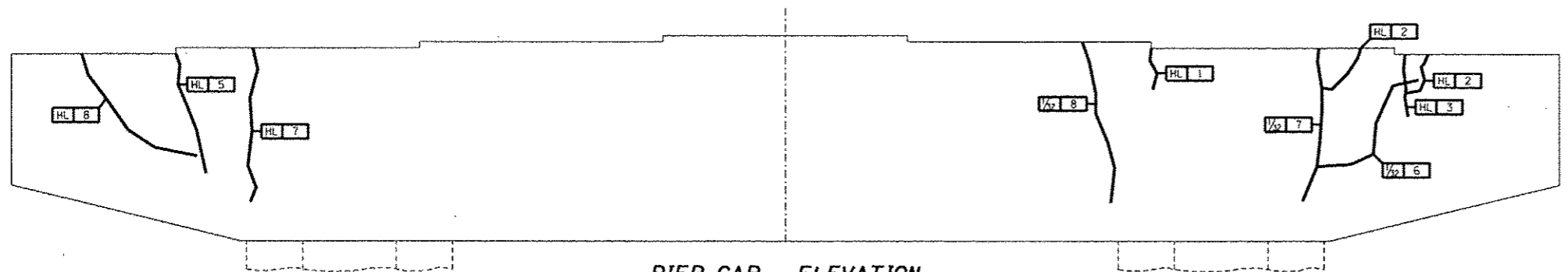
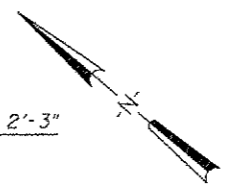
**PIER CAP - UNDERSIDE**

**REPAIRS LIST - PIER 6 - CAP**

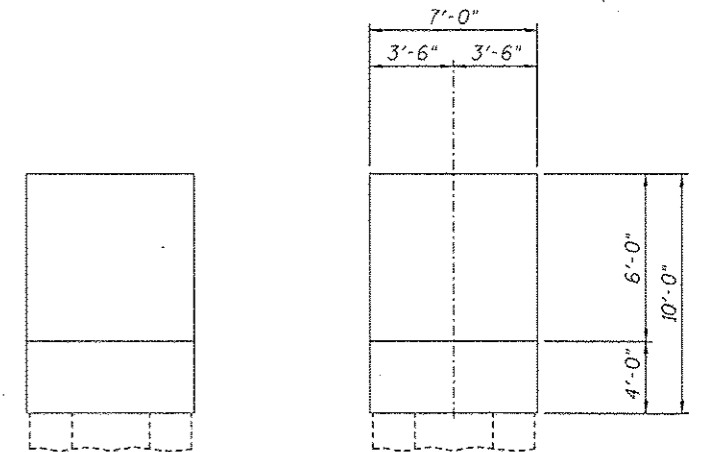
I.D.	Description	Pay Item	Units	Quantity
082	Map Cracking	Concrete Sealer	SQ. FT.	2.3
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



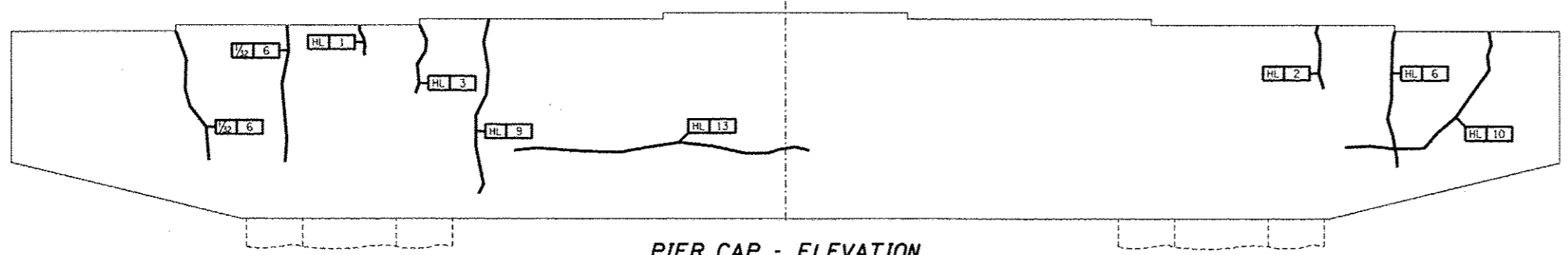
**PIER CAP - PLAN - PIER 7**



**PIER CAP - ELEVATION**  
Looking North

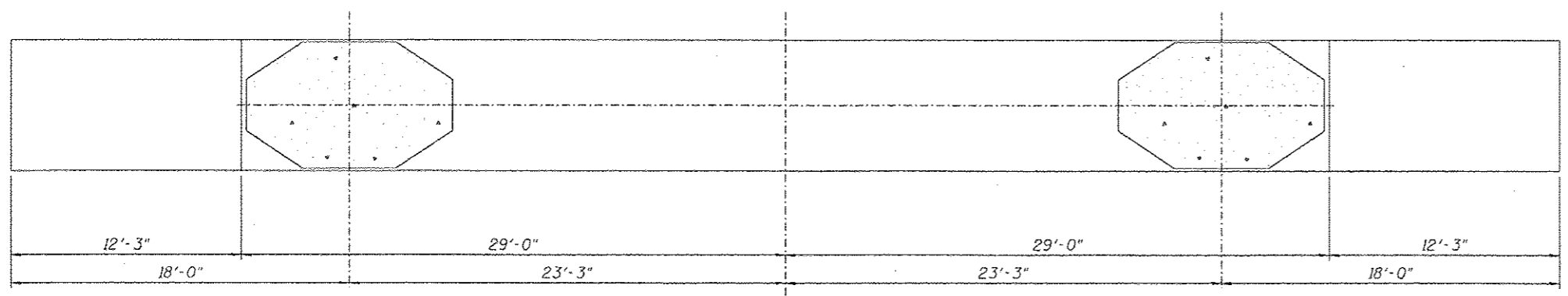


**PIER CAP - END ELEVATIONS**  
WEST END FACE EAST END FACE



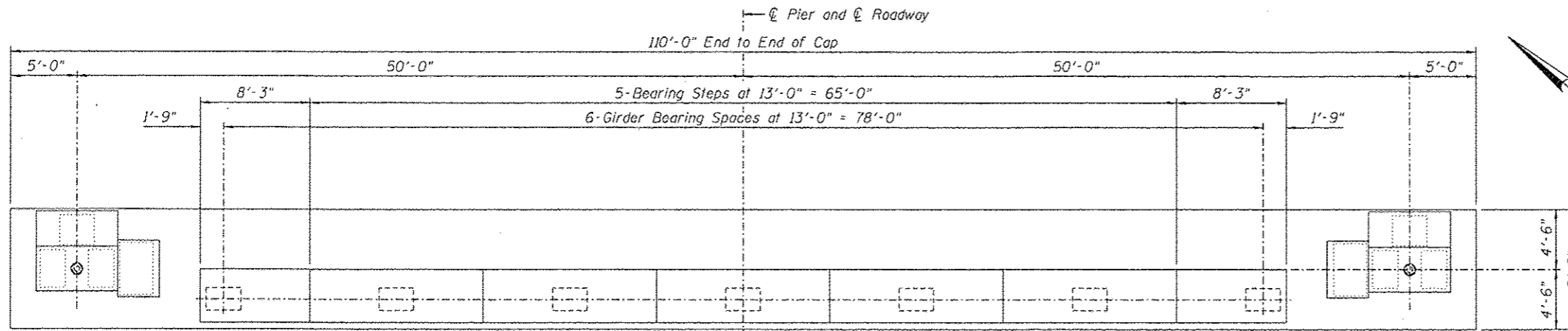
**PIER CAP - ELEVATION**  
Looking South

HL 12 - Crack Length (Feet)  
 - Crack Width (Inches)  
**CRACKS < 1/16"**  
 Hairline Cracks (HL) or  
 Cracks < 1/16" not to be Sealed.

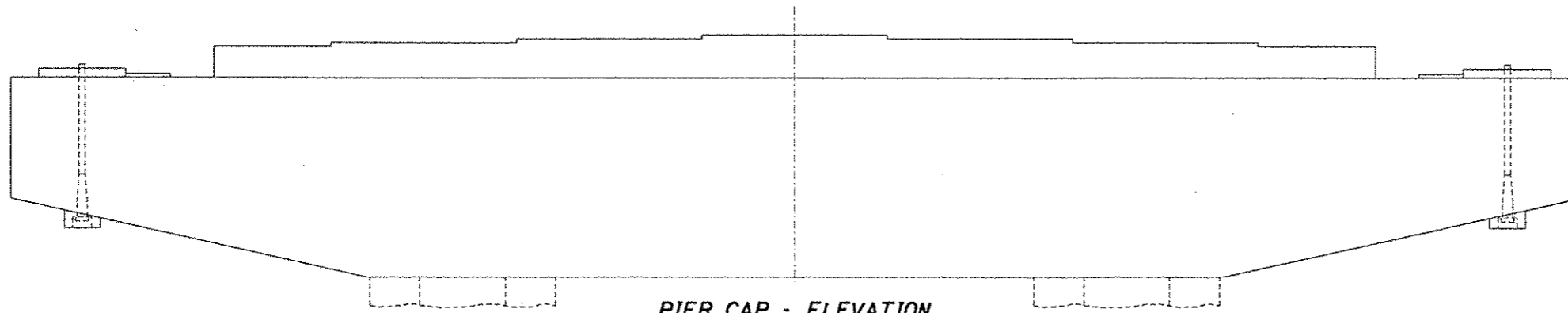


**PIER CAP - UNDERSIDE**

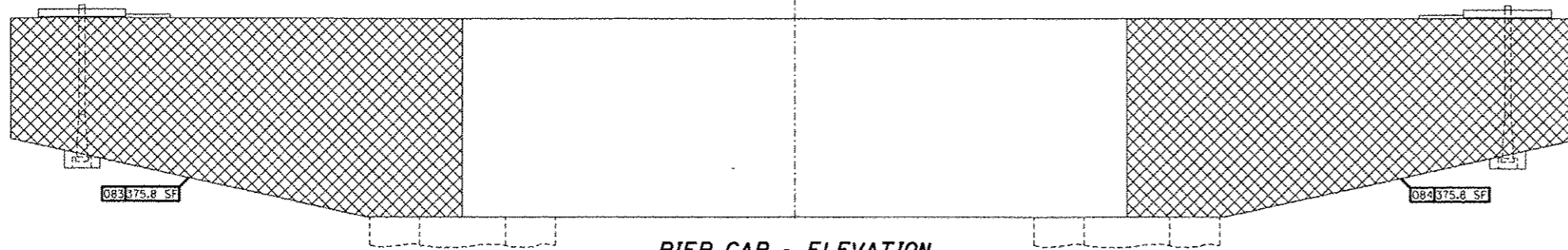
DESIGNED -	EXAMINED	DATE -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIRS TO - PIER NUMBER 7 - CAP</b> <b>STRUCTURE NO. 060-0255</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -	ENGINEER OF STRUCTURAL SERVICES			304	100B-105-1	MADISON	58	37		
DRAWN Rod	PASSED			SHEET NO. 27 OF 48 SHEETS		CONTRACT NO. 76E73		ILLINOIS FED. AID PROJECT		
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES									



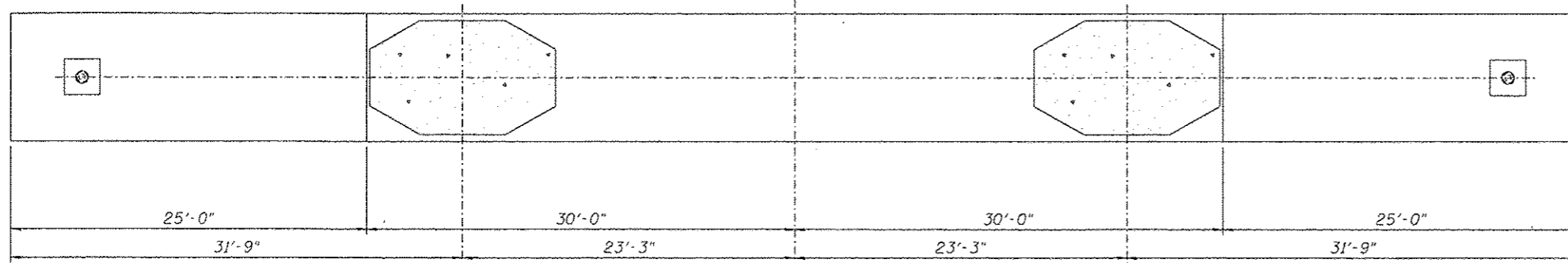
**PIER CAP - PLAN - PIER 8**



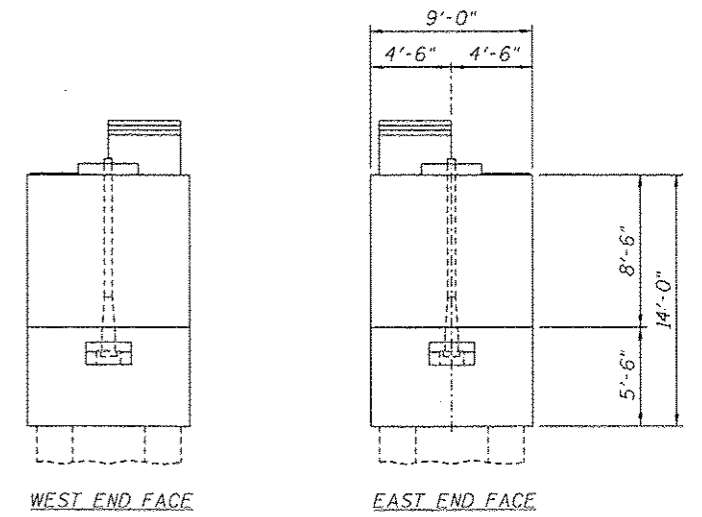
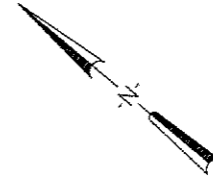
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - ELEVATION**  
Looking South



**PIER CAP - UNDERSIDE**



**PIER CAP - END ELEVATIONS**

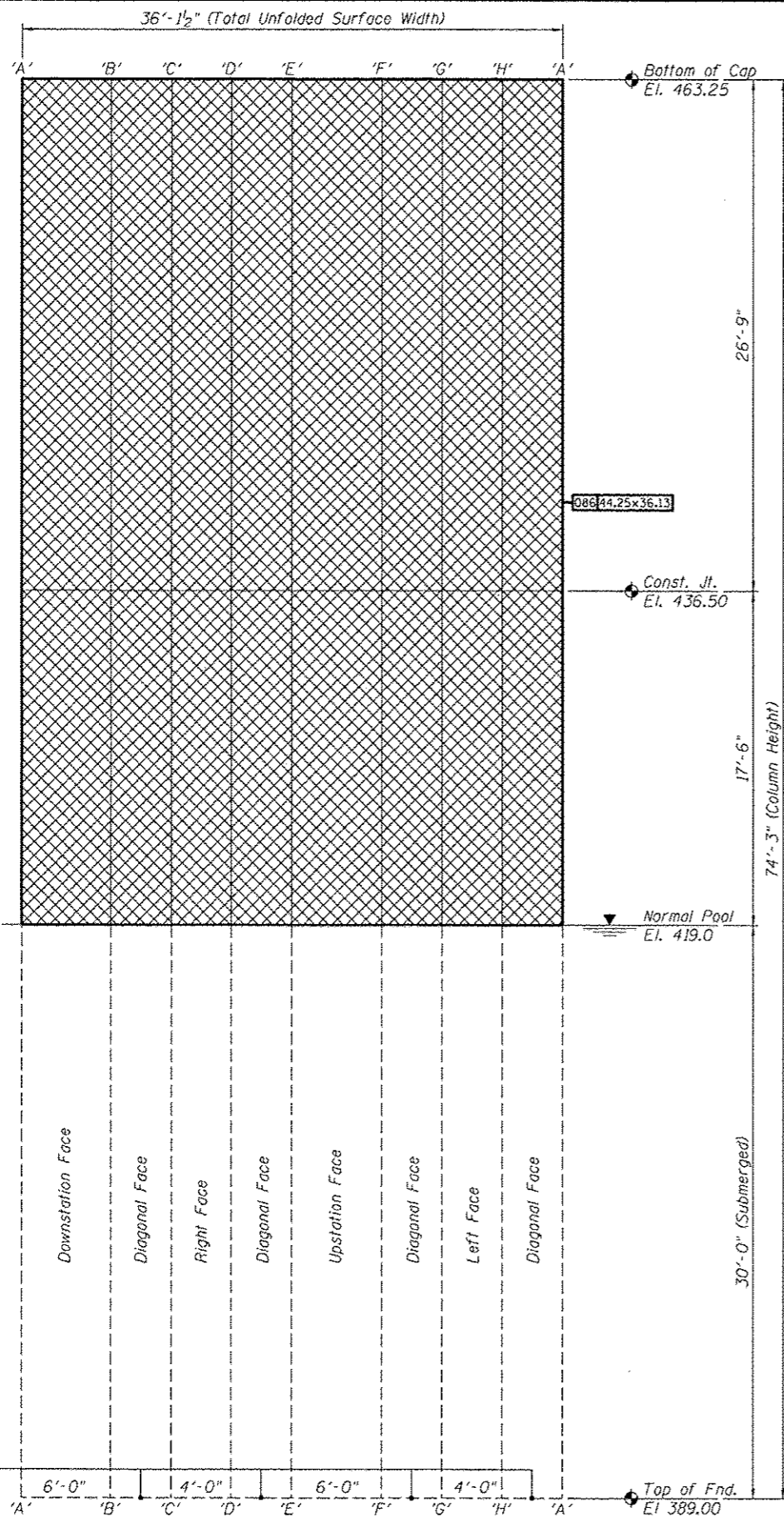


**REPAIRS LIST - PIER 8 - CAP**

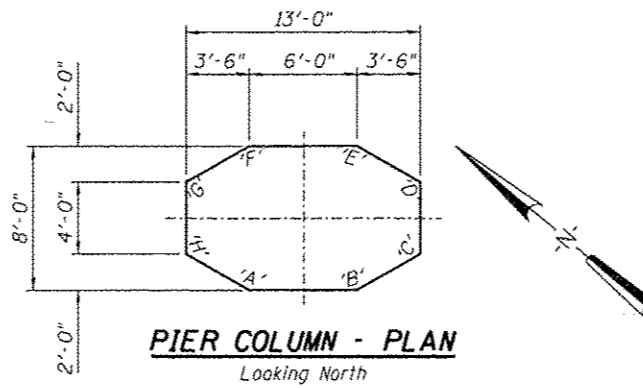
I.D.	Description	Pay Item	Units	Quantity
083	Map Cracking	Concrete Sealer	SQ. FT.	375.8
084	Map Cracking	Concrete Sealer	SQ. FT.	375.8
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

DESIGNED -	EXAMINED _____ DATE _____	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIRS TO - PIER NUMBER 8 - CAP</b> <b>STRUCTURE NO. 060-0255</b>	F.A.P. RTE. 304	SECTION 1008-1D5-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 38	
CHECKED -	ENGINEER OF STRUCTURAL SERVICES _____		SHEET NO. 28 OF 48 SHEETS	ILLINOIS FED. AID PROJECT					
DRAWN Rod	PASSED _____								
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES _____								

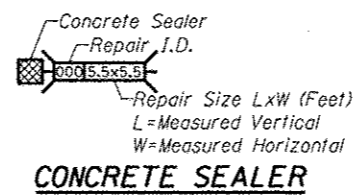




**PIER NO. 8 - ELEVATION - LEFT COLUMN**  
 Column Surface Shown Unfolded



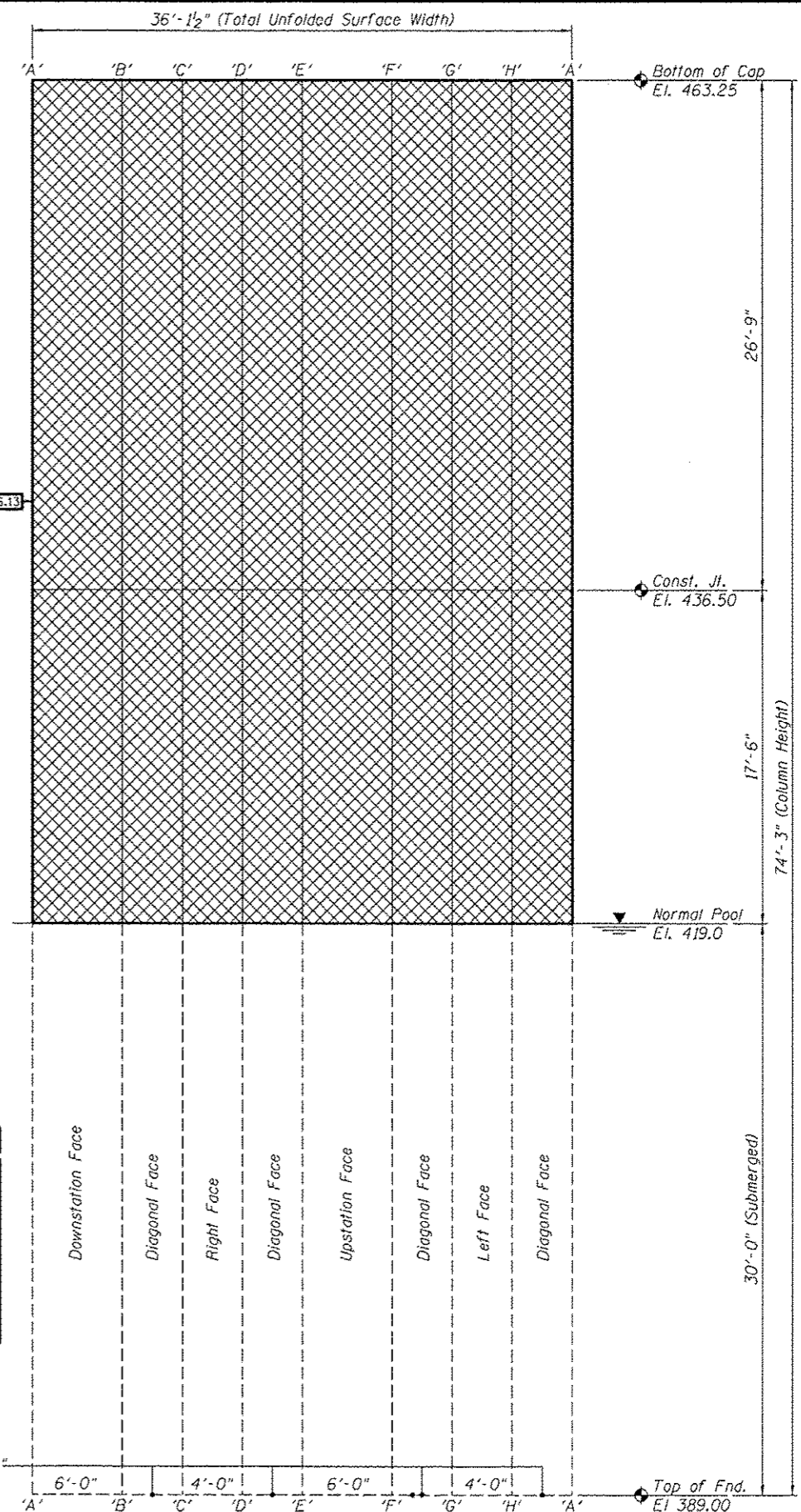
**PIER COLUMN - PLAN**  
 Looking North



**CONCRETE SEALER**

**REPAIRS LIST - PIER 8 - COLUMNS**

I.D.	Description	Pay Item	Units	Quantity
085	Map Cracking	Concrete Sealer	SQ. FT.	1598.8
086	Map Cracking	Concrete Sealer	SQ. FT.	1598.8
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



**PIER NO. 8 - ELEVATION - RIGHT COLUMN**  
 Column Surface Shown Unfolded

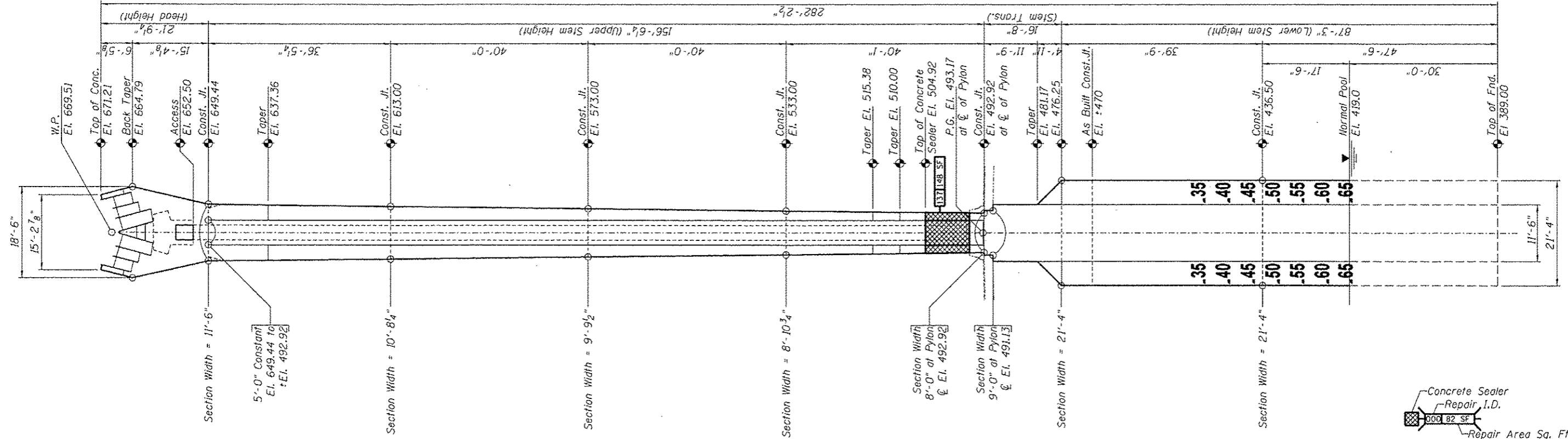
DESIGNED -	EXAMINED _____	DATE _____
CHECKED -	PASSED _____	
DRAWN Rod	ENGINEER OF STRUCTURAL SERVICES	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

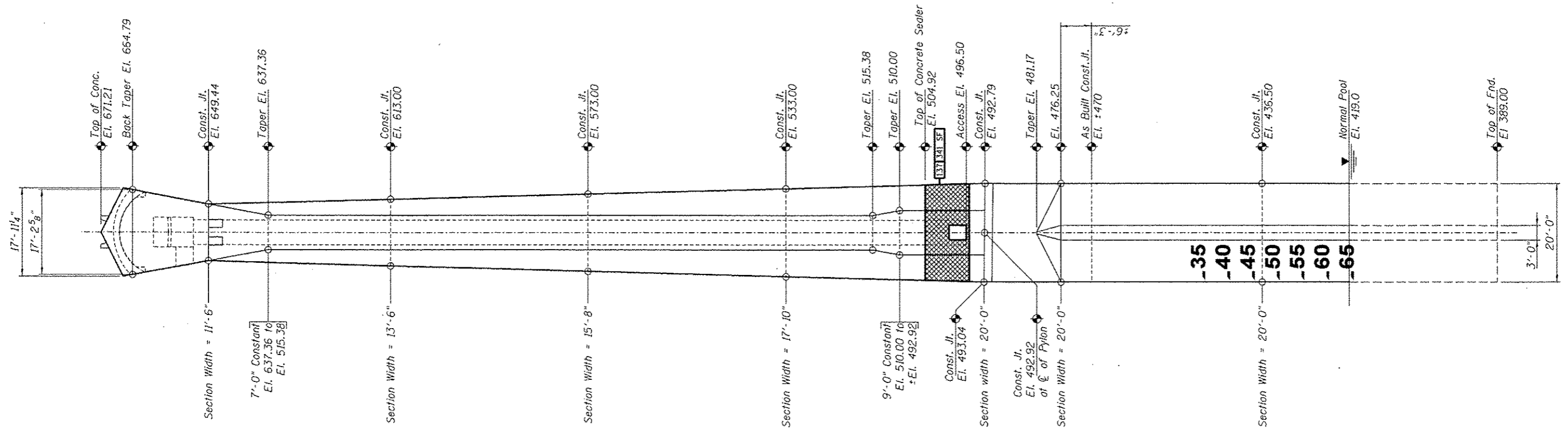
**REPAIRS TO - PIER NUMBER 8 - COLUMN  
 STRUCTURE NO. 060-0255**

SHEET NO. 29 OF 48 SHEETS

F.A.P. RTE. 304	SECTION 100B-105-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 39
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76E73	



**ELEVATION - MISSOURI PYLON**  
 Looking South  
 (North Face of Missouri Pylon - Pier 9)



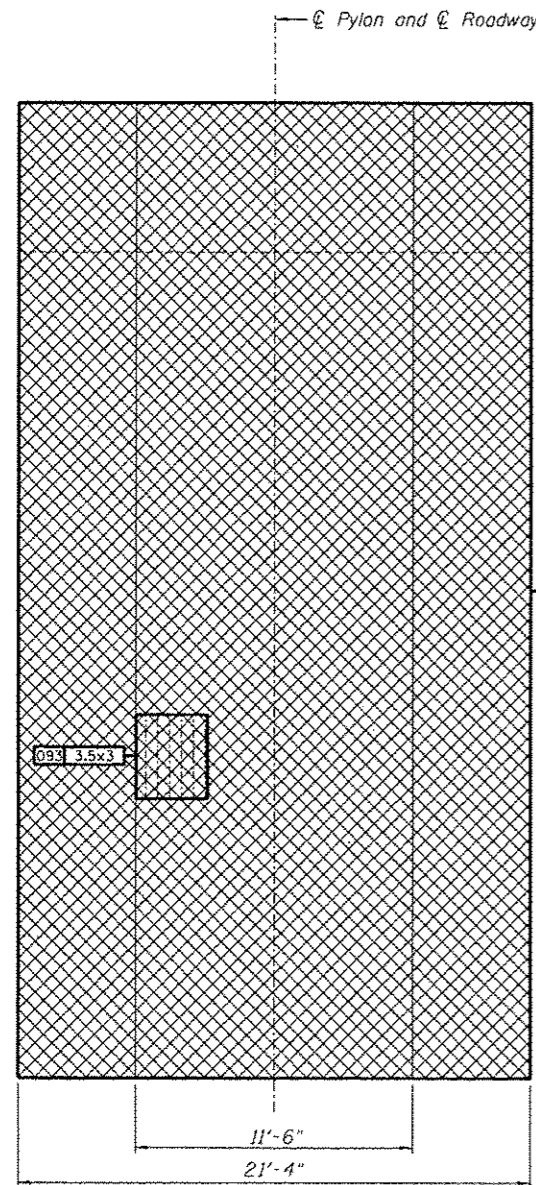
**ELEVATION - MISSOURI PYLON**  
 Looking East  
 (West Face of Missouri Pylon - Pier 9)

**REPAIRS LIST - PIER 9 - PYLON STEM**

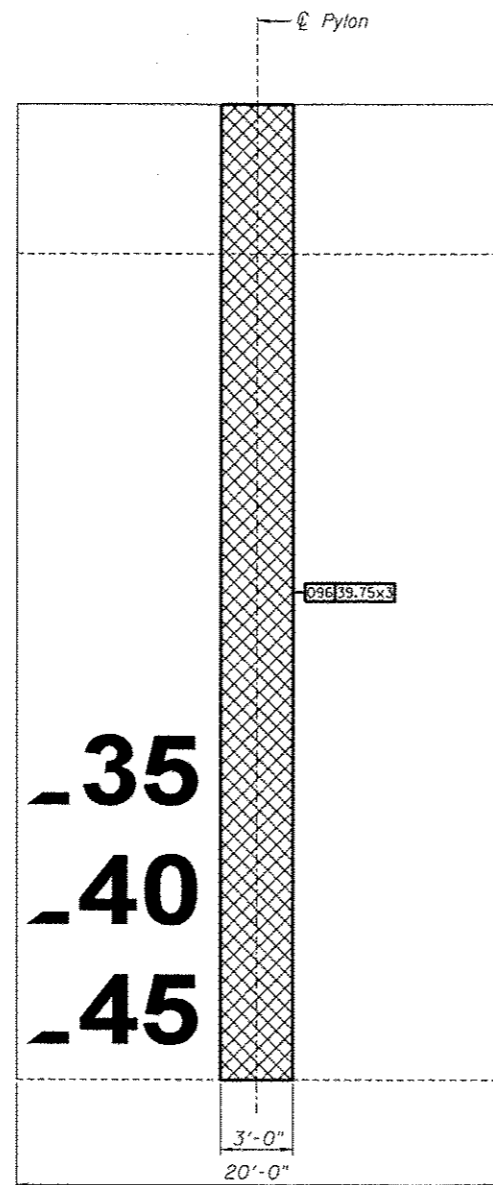
I.D.	Description	Pay Item	Units	Quantity
137	Seal all surfaces up to 12' above Deck	Concrete Sealer	SQ. FT.	489

Concrete Sealer  
 Repair I.D.  
 Repair Area Sq. Ft.  
**CONCRETE SEALER**

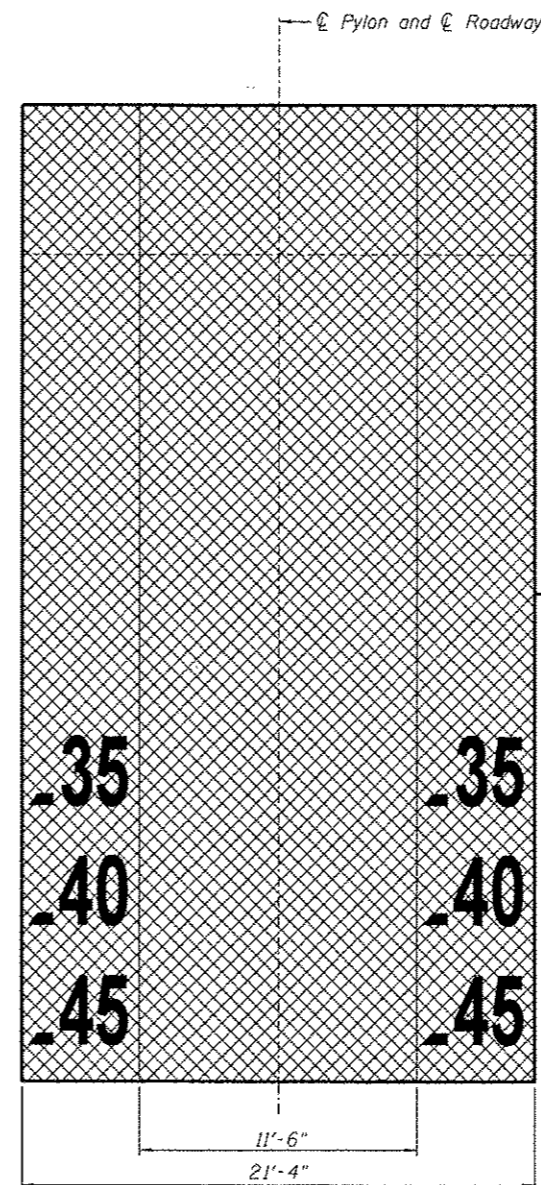
DESIGNED	EXAMINED	DATE	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>REFERENCE SHEET - PIER NUMBER 9 - MISSOURI PYLON</b> <b>STRUCTURE NO. 060-0255</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED	ENGINEER OF STRUCTURAL SERVICES			304	1008-IDS-1	MADISON	58	40		
DRAWN Rod	PASSED			SHEET NO. 30 OF 48 SHEETS		CONTRACT NO. 76E73		ILLINOIS FED. AID PROJECT		
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES									



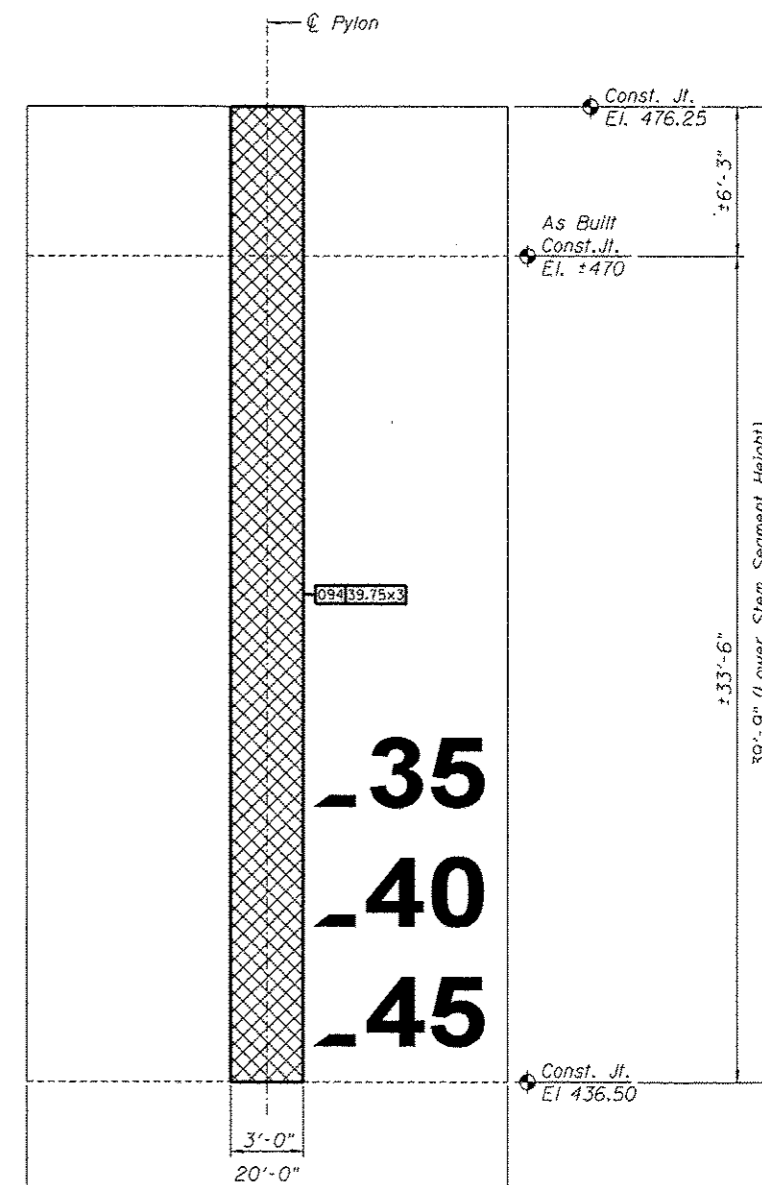
**MISSOURI PYLON - 436.50 to 476.25**  
Looking North



**MISSOURI PYLON - 436.50 to 476.25**  
Looking East



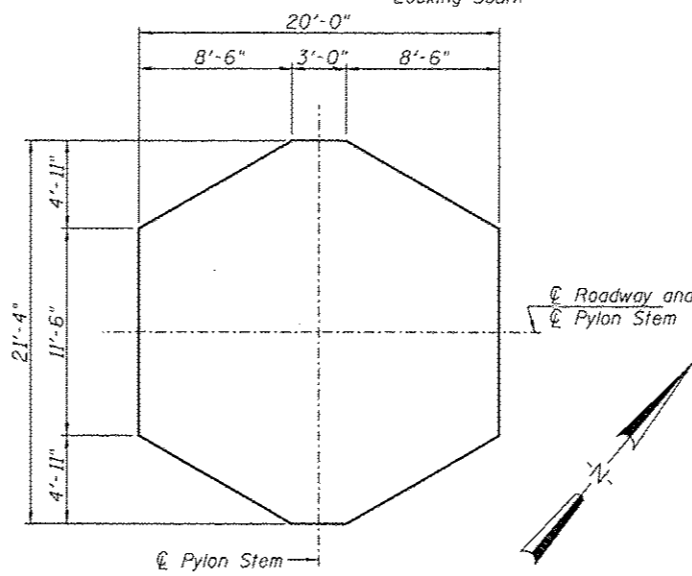
**MISSOURI PYLON - 436.50 to 476.25**  
Looking South



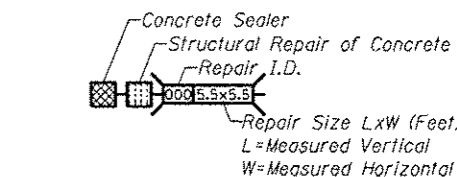
**MISSOURI PYLON - 436.50 to 476.25**  
Looking West

**REPAIRS LIST - PIER 9 - COLUMN BELOW BRIDGE DECK**

I.D.	Description	Pay Item	Units	Quantity
092	Map Cracking	Concrete Sealer	SQ. FT.	1237.8
093	Delamination	Structural Repair of Concrete (Depth equal to or less than 5 Inches)	SQ. FT.	10.5
094	Map Cracking	Concrete Sealer	SQ. FT.	119.3
095	Map Cracking	Concrete Sealer	SQ. FT.	1237.8
096	Map Cracking	Concrete Sealer	SQ. FT.	119.3
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



**TYPICAL SECTION thru PYLON STEM**



**CONCRETE SEALER or STRUCTURAL REPAIR of CONCRETE**

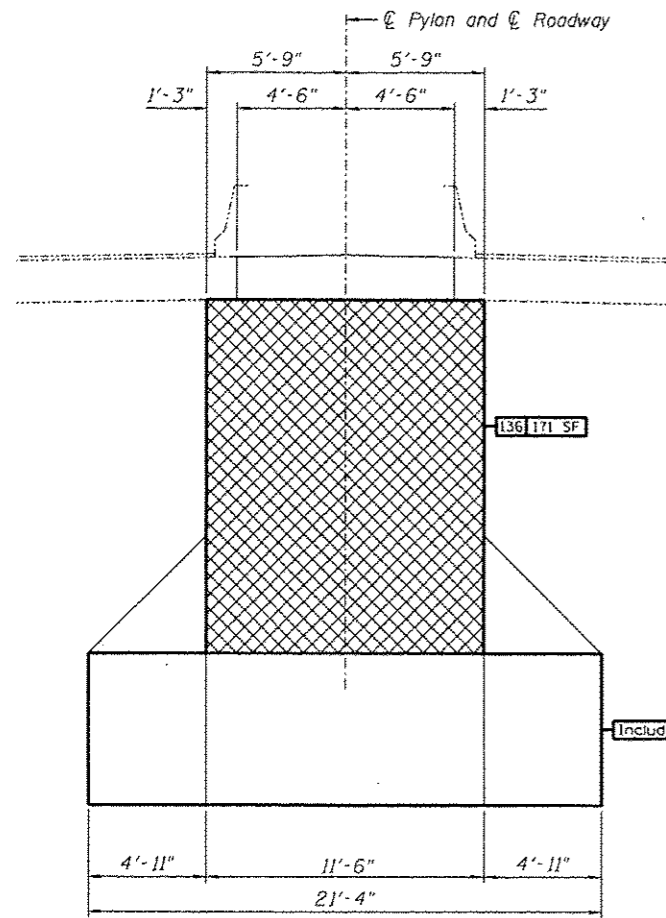
DESIGNED -	EXAMINED -	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

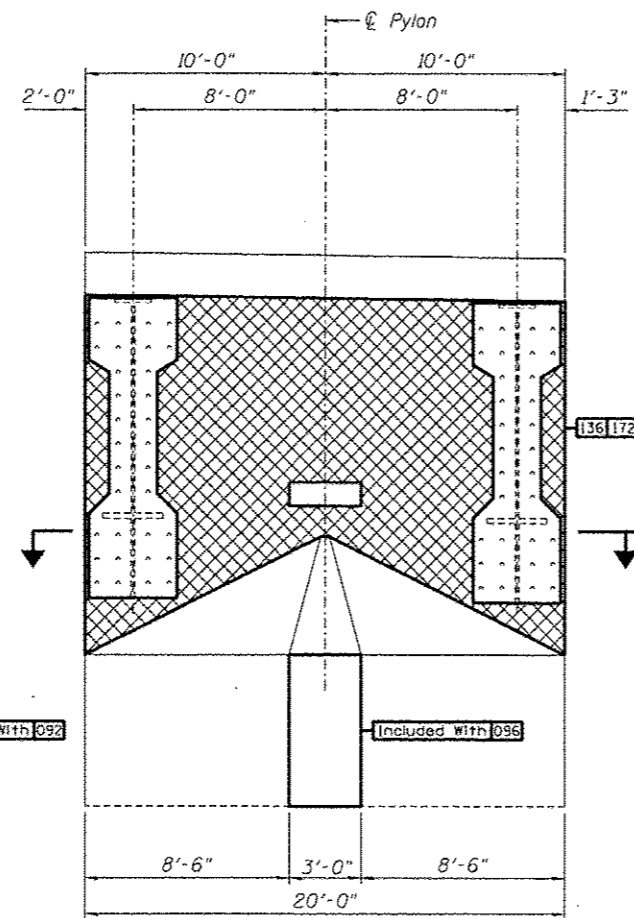
**REPAIRS TO - CSS - MISSOURI PYLON (PIER 9) - (436.50 to 476.25)  
STRUCTURE NO. 060-0255**

SHEET NO. 31 OF 48 SHEETS

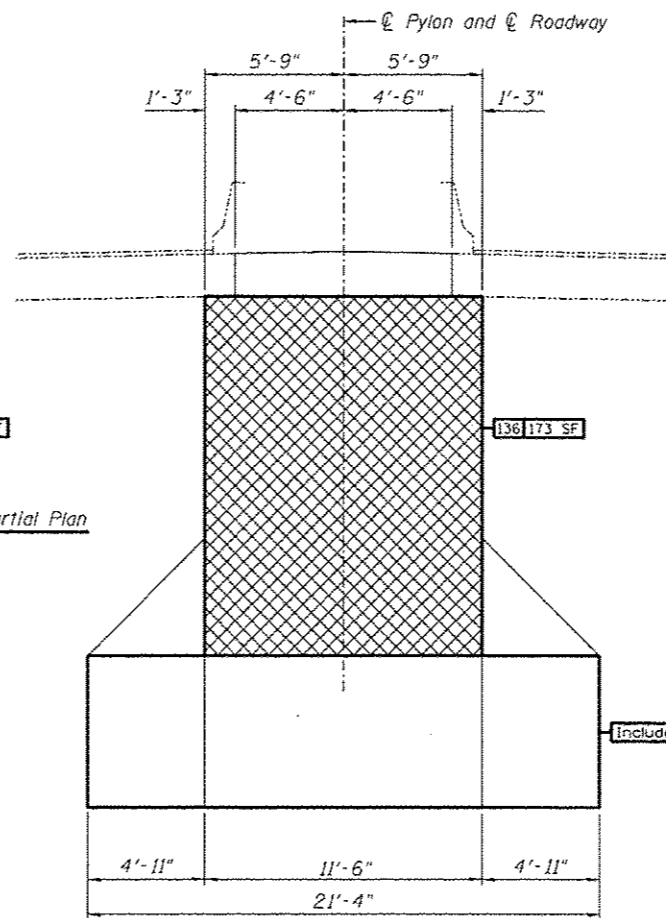
F.A.P. RTE. 304	SECTION 100B-1DS-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 41
CONTRACT NO. 76E73			ILLINOIS FREQ. AID PROJECT	



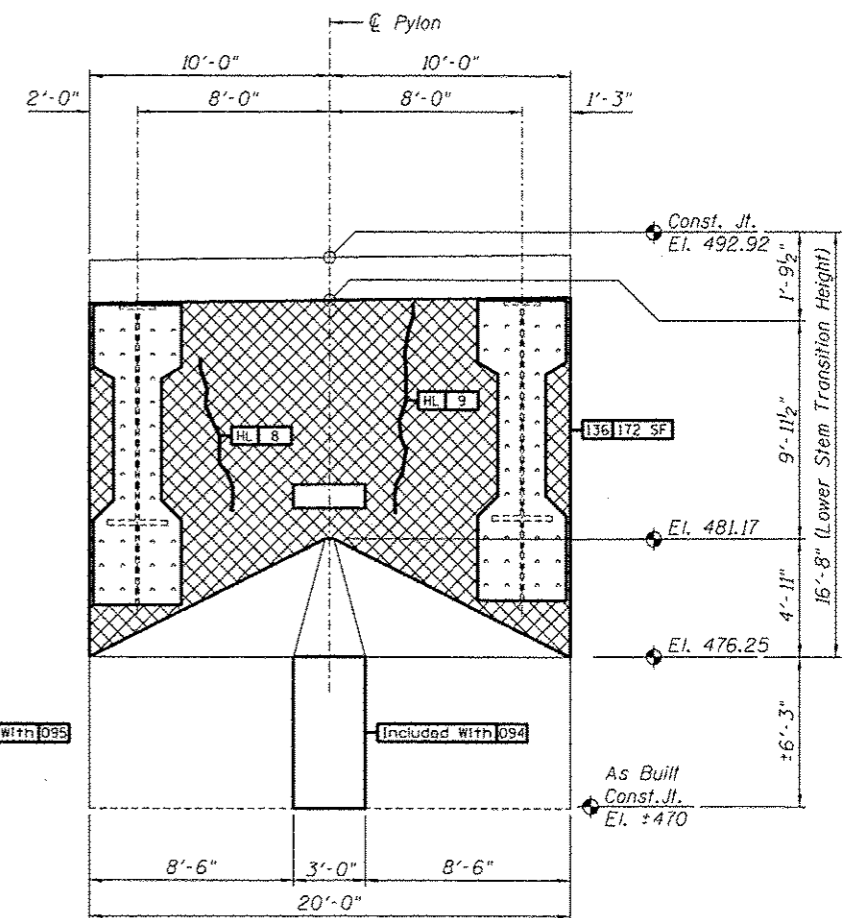
MISSOURI PYLON - 476.25 to 492.92  
Looking North



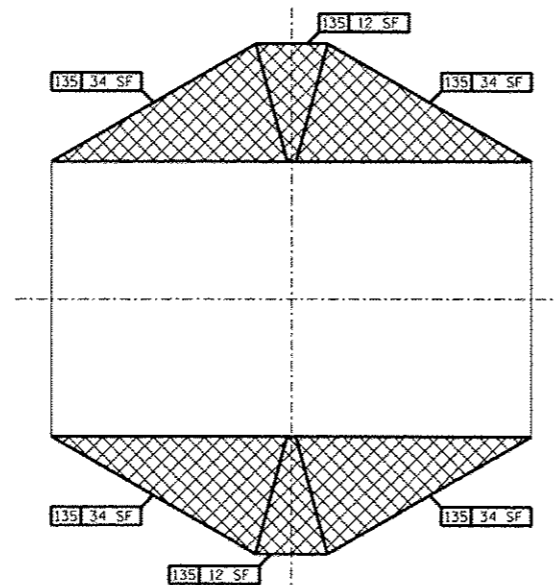
MISSOURI PYLON - 476.25 to 492.92  
Looking East



MISSOURI PYLON - 476.25 to 492.92  
Looking South



MISSOURI PYLON - 476.25 to 492.92  
Looking West

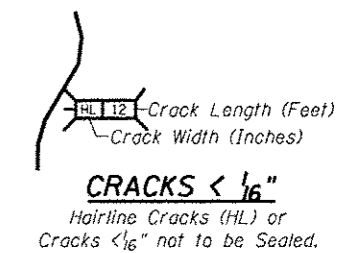
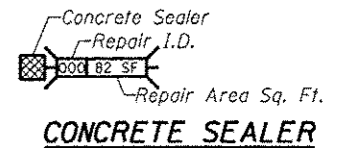


PARTIAL PLAN  
MISSOURI PYLON - 476.25 to 481.17  
(Showing Sloping Surfaces)

Partial Plan

**REPAIRS LIST - PIER 9 - COLUMN BELOW BRIDGE DECK**

I.D.	Description	Pay Item	Units	Quantity
135	Top Mast Section Sloping Surfaces	Concrete Sealer	SQ. FT.	160
136	Top Mast Section Vertical Surfaces	Concrete Sealer	SQ. FT.	688



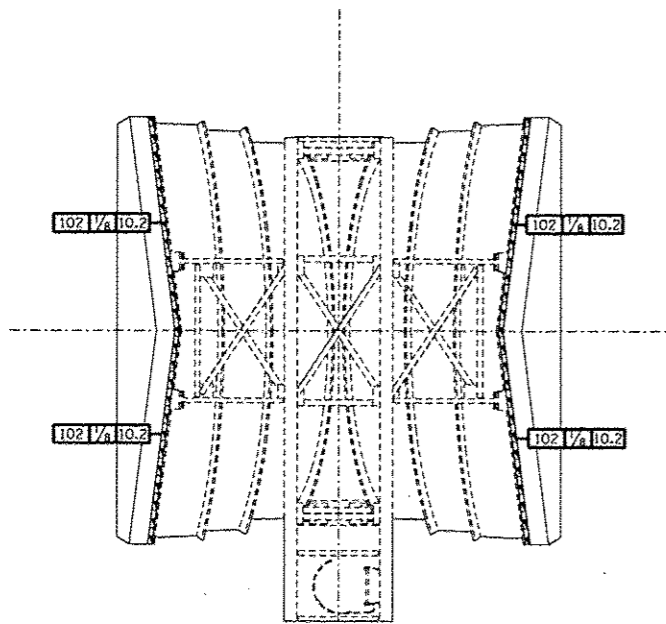
DESIGNED -	EXAMINED -	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNN	ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

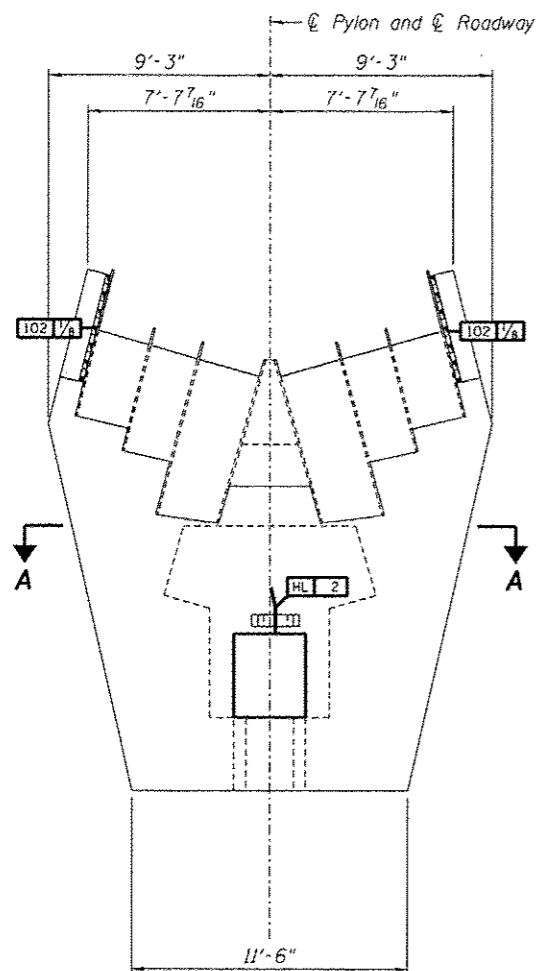
REPAIRS TO - CSS - MISSOURI PYLON (PIER 9) - (476.25 to 492.92)  
STRUCTURE NO. 060-0255

SHEET NO. 32 OF 48 SHEETS

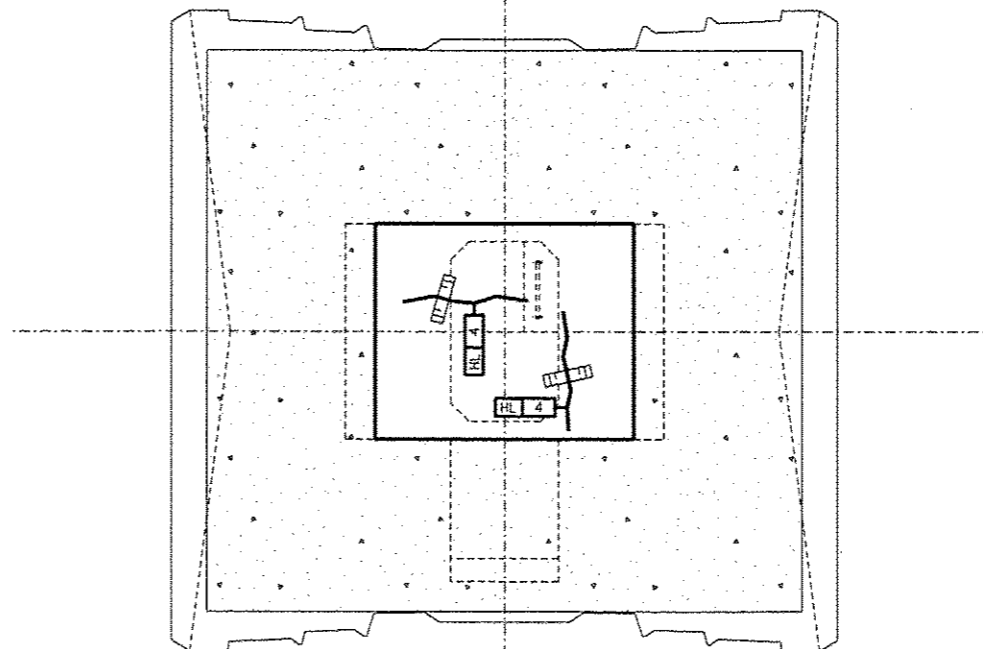
F.A.P. RTE. 304	SECTION 100B-10S-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 42
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	



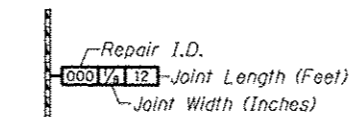
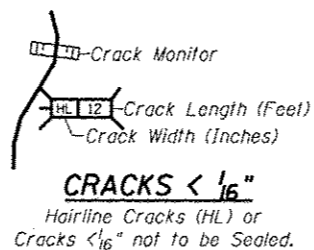
PLAN - STAY SADDLES



ELEVATION - NORTH FACE

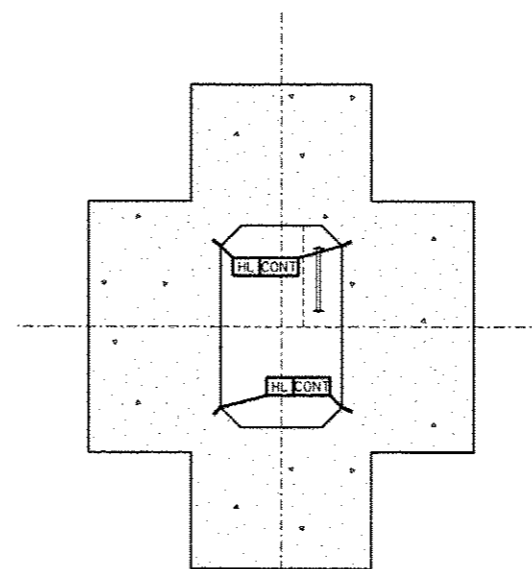


SECTION A-A  
ACCESS SPACE CEILING



POLYURETHANE SEALANT

Note:  
 Sealant shall be Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25.



TYPICAL ACCESS OPENING SECTION

(Taken at Elev. 613.00)

REPAIRS LIST - PIER 9 - PYLON HEAD

I.D.	Description	Pay Item	Units	Quantity
102	Failed Sealant Btwn. Saddle Stl. & Conc.	Polyurethane Sealant	FOOT	40.8
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

DESIGNED	EXAMINED	DATE
CHECKED	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

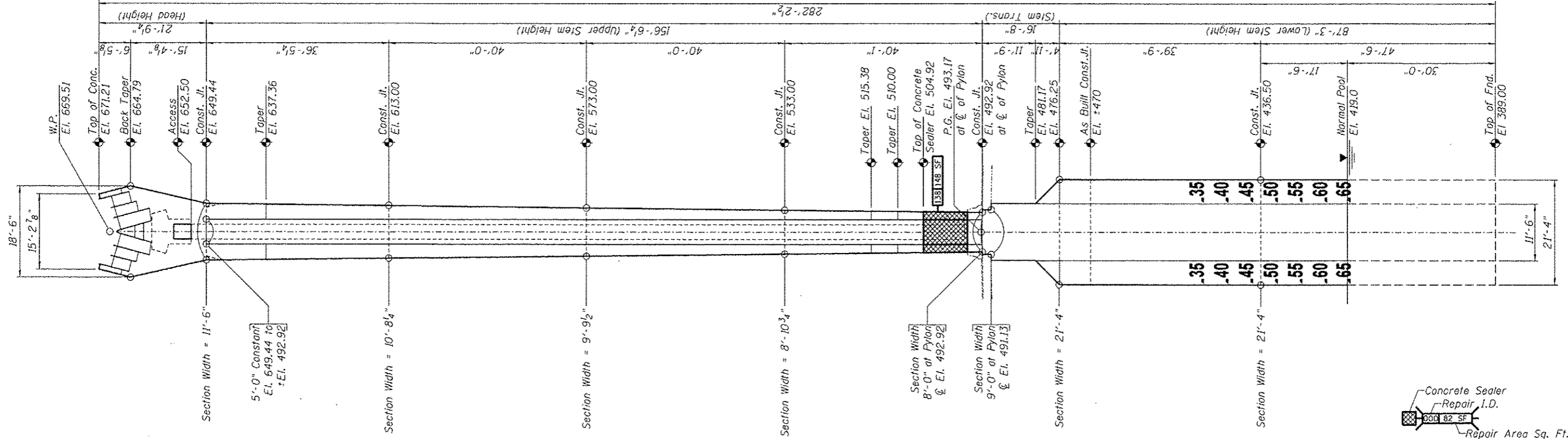
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

REPAIRS TO - MISSOURI PYLON (PIER 9) - HEAD & ACCESS SPACES  
 STRUCTURE NO. 060-0255

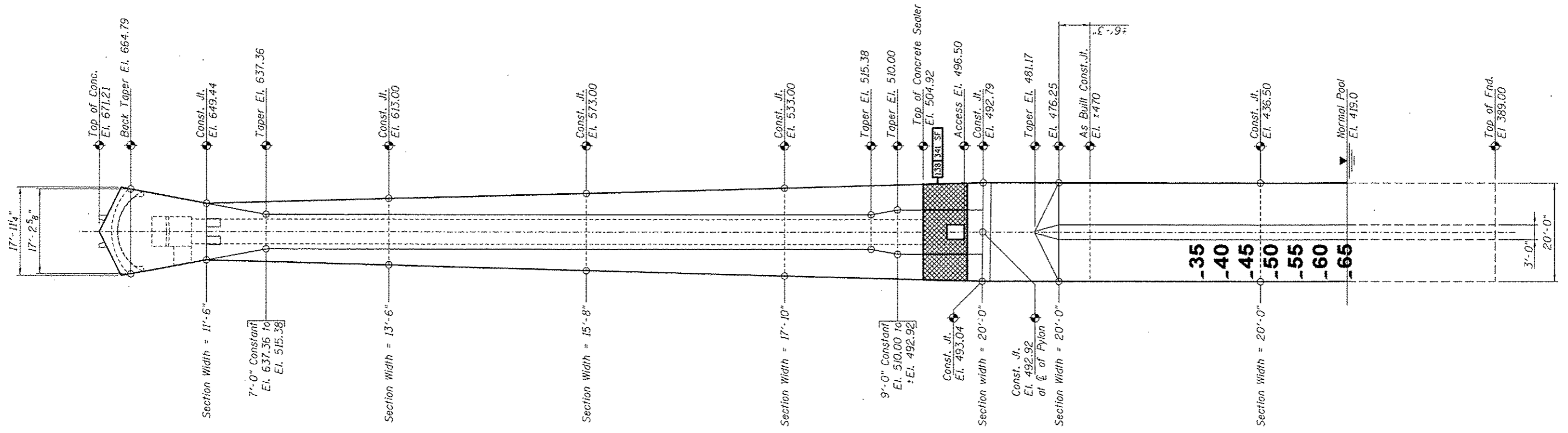
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-10S-1	MADISON	58	43
CONTRACT NO. 76E73				

SHEET NO. 33 OF 48 SHEETS

ILLINOIS FED. AID PROJECT



**ELEVATION - ILLINOIS PYLON**  
 Looking North  
 (South Face of Illinois Pylon - Pier 10)



**ELEVATION - ILLINOIS PYLON**  
 Looking West  
 (East Face of Illinois Pylon - Pier 10)

**REPAIRS LIST - PIER 10 - PYLON STEM**

I.D.	Description	Pay Item	Units	Quantity
138	Seal all surfaces up to 12' above Deck	Concrete Sealer	SQ. FT.	489

Concrete Sealer  
 Repair I.D.  
 82 SF  
 Repair Area Sq. Ft.  
**CONCRETE SEALER**

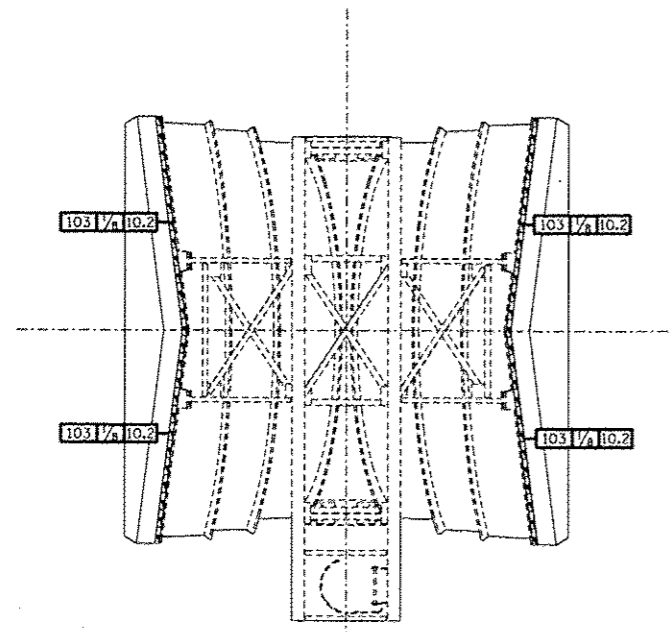
DESIGNED -	EXAMINED	DATE
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

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

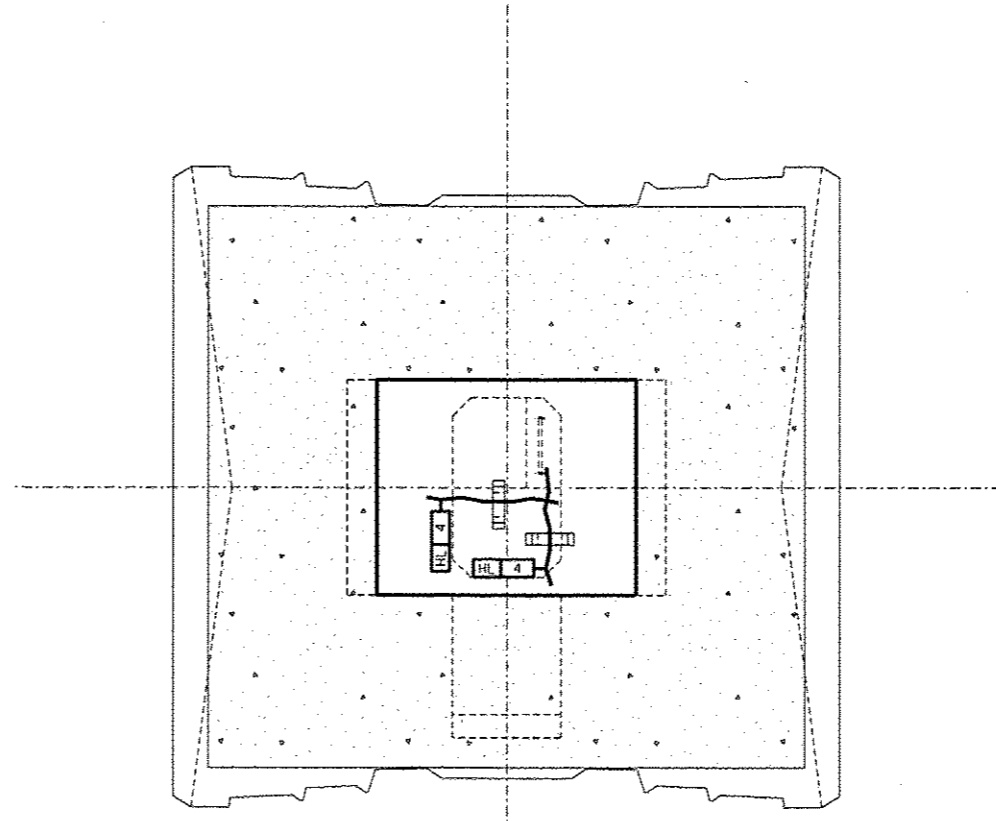
**REFERENCE SHEET - PIER NUMBER 10 - ILLINOIS PYLON**  
**STRUCTURE NO. 060-0255**

SHEET NO. 34 OF 48 SHEETS

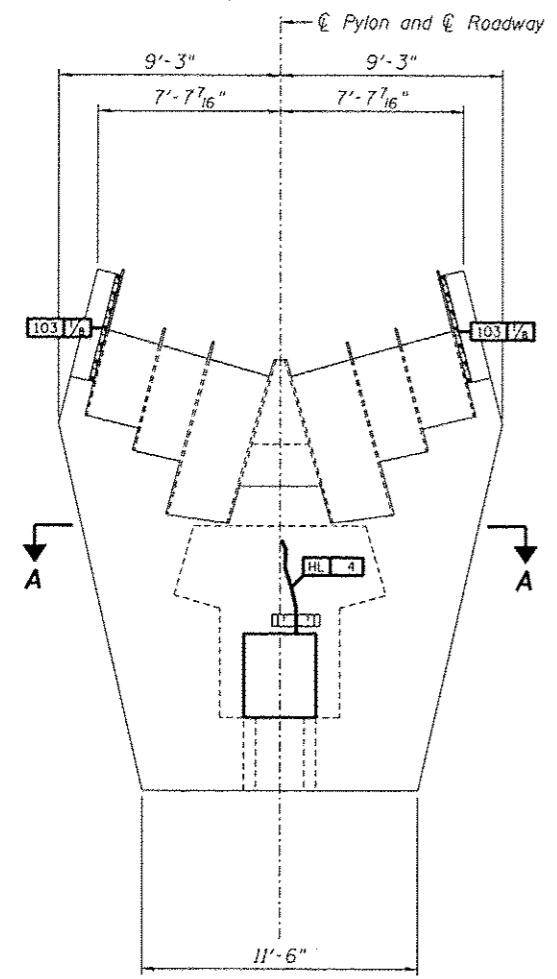
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	1008-1DS-1	MADISON	58	44
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	



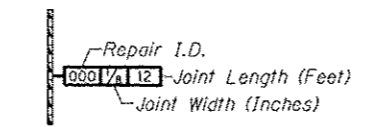
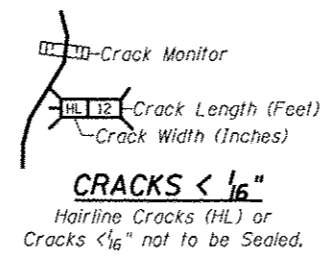
PLAN - STAY SADDLES



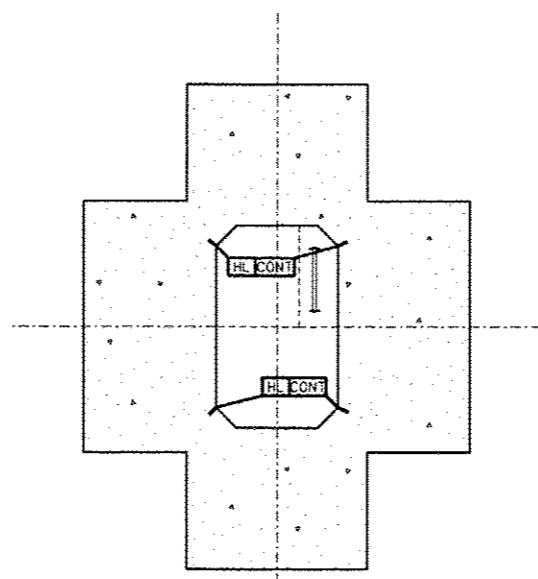
SECTION A-A  
ACCESS SPACE CEILING



ELEVATION - SOUTH FACE



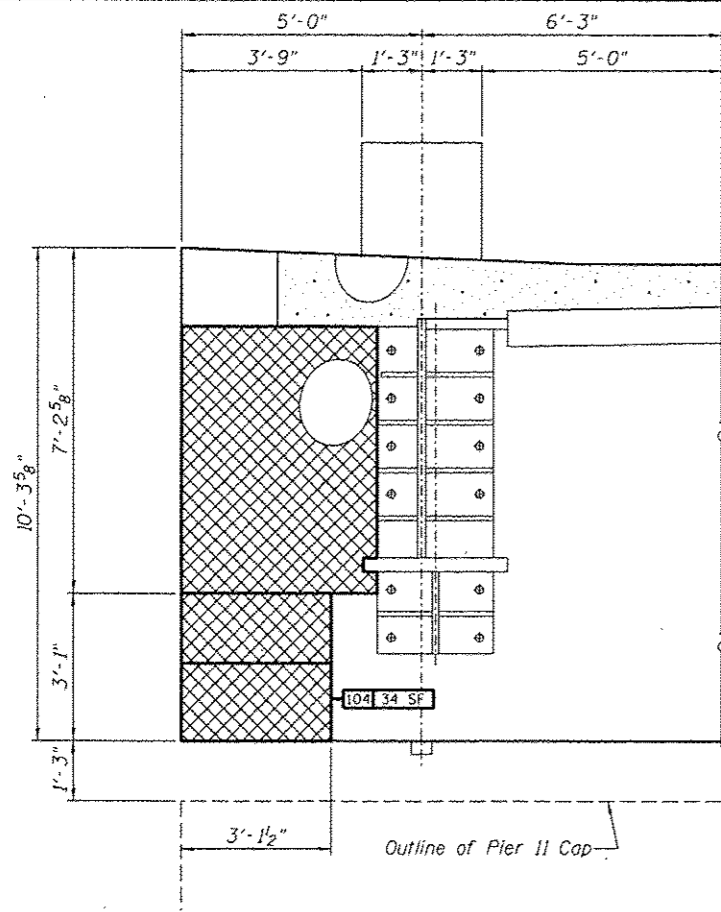
Note:  
 Sealant shall be Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25.



TYPICAL ACCESS OPENING SECTION  
 (Taken at Elev. 613.00)

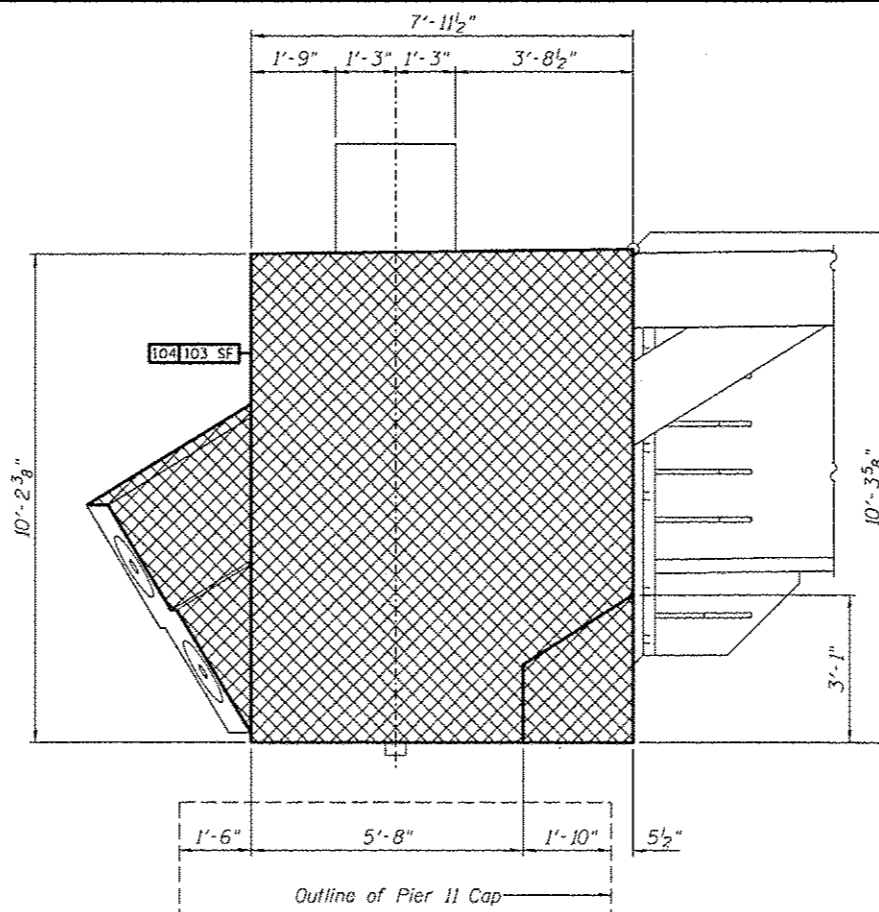
REPAIRS LIST - PIER 10 - PYLON HEAD

I.D.	Description	Pay Item	Units	Quantity
103	Failed Sealant Btwn. Saddle SH. & Conc.	Polyurethane Sealant	FOOT	40.8
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

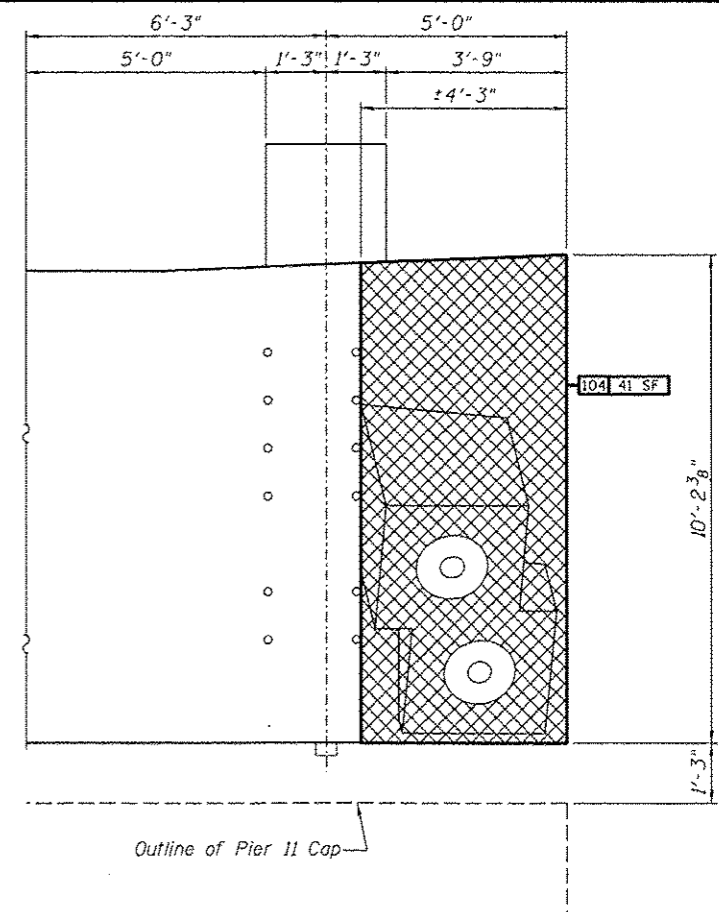


**PARTIAL ELEVATION**

Looking North



**END VIEW**

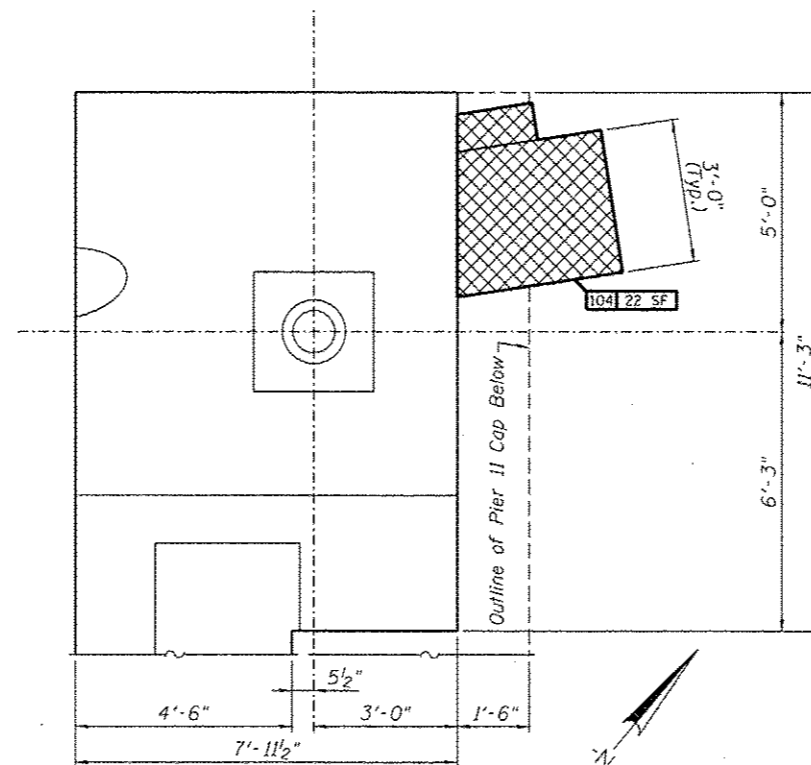


**PARTIAL ELEVATION**

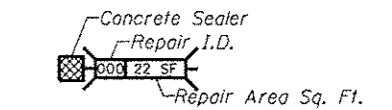
Looking South

**REPAIRS LIST - CONCRETE END BEAM - over PIER 11**

I.D.	Description	Pay Item	Units	Quantity
104	Map Cracking	Concrete Sealer	SQ. FT.	200.0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



**PARTIAL PLAN VIEW**



**CONCRETE SEALER**

DESIGNED	EXAMINED	DATE
CHECKED	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

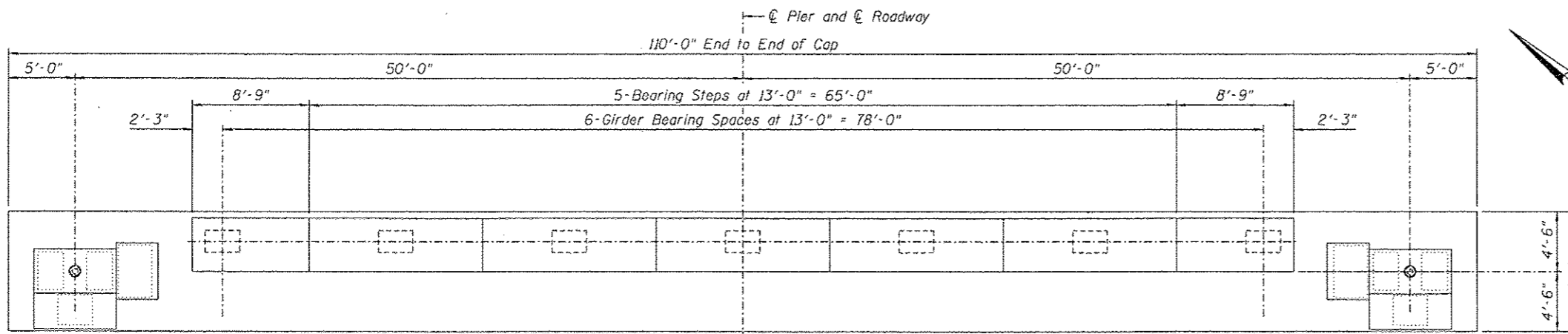
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

REPAIRS TO - LT. END BLOCK - over PIER 11 - CONCRETE END BEAM  
 STRUCTURE NO. 060-0255

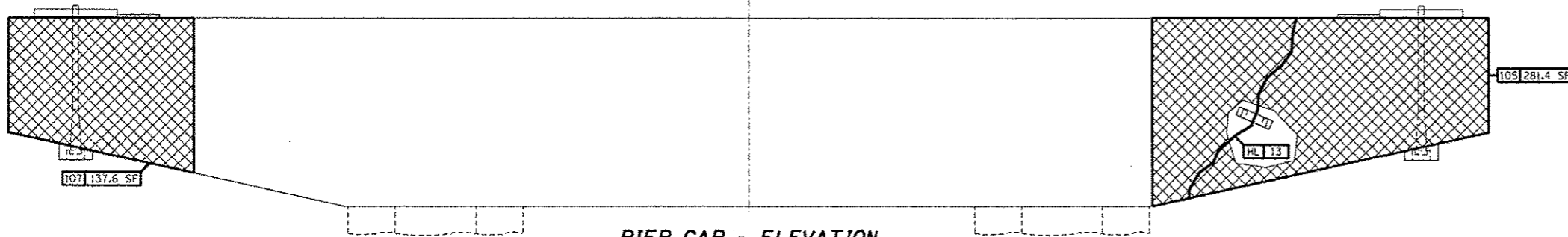
SHEET NO. 36 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	1008-105-1	MADISON	58	46
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	

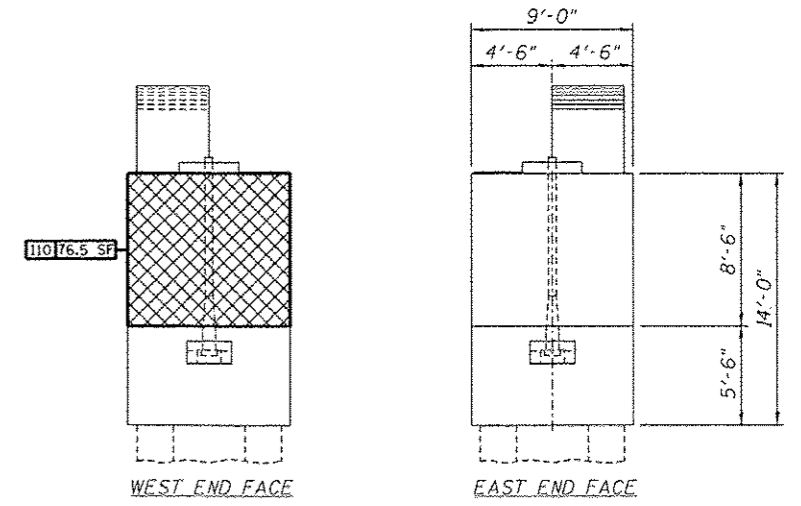




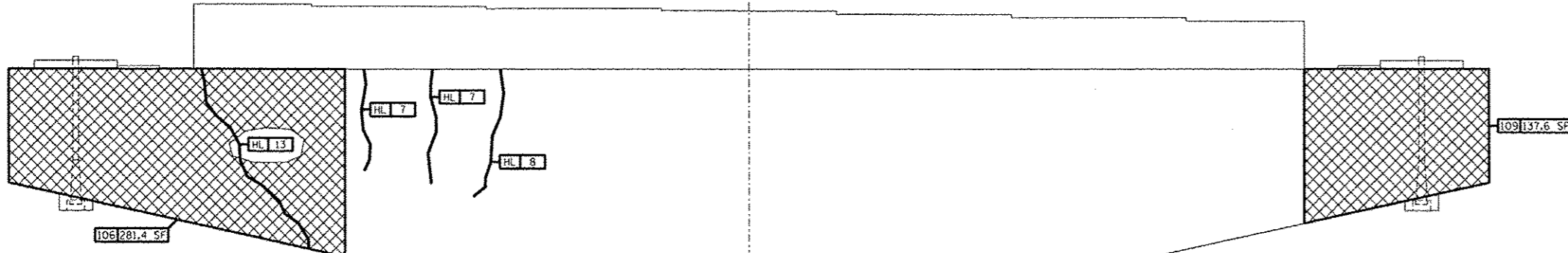
**PIER CAP - PLAN - PIER II**



**PIER CAP - ELEVATION**  
Looking North



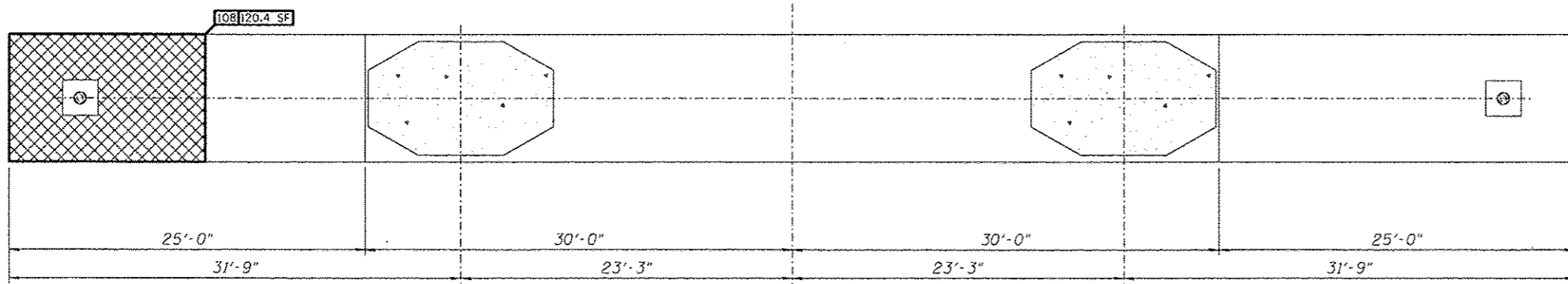
**PIER CAP - END ELEVATIONS**



**PIER CAP - ELEVATION**  
Looking South

**CRACKS < 1/16"**  
 Hairline Cracks (HL) or Cracks < 1/16" not to be Sealed.

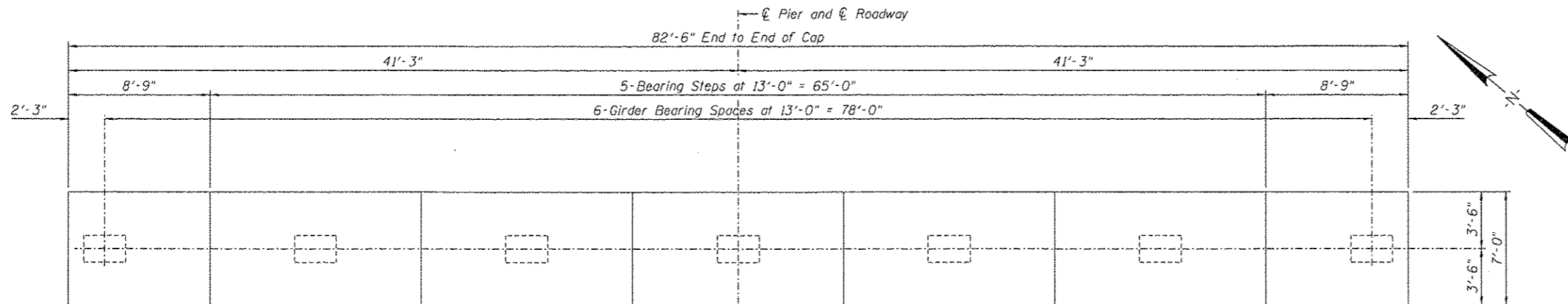
**CONCRETE SEALER**  
 Repair Area Sq. Ft.



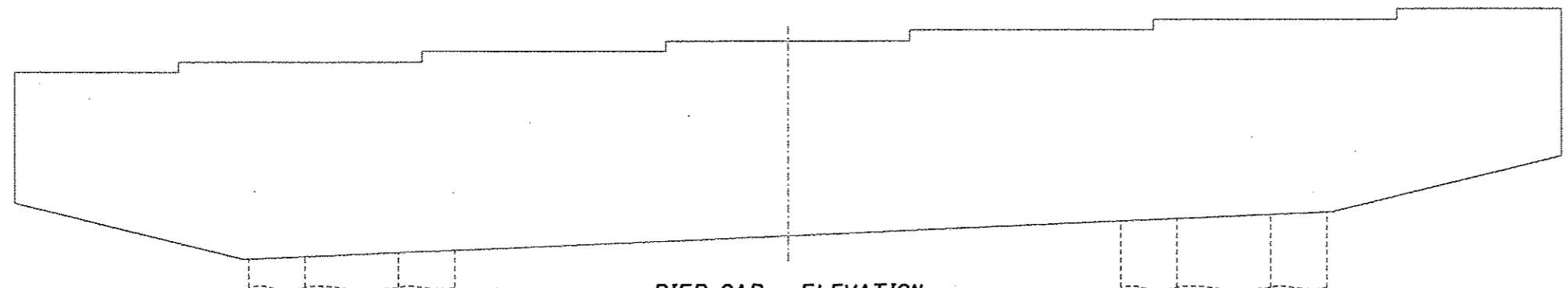
**PIER CAP - UNDERSIDE**

**REPAIRS LIST - PIER II - CAP**

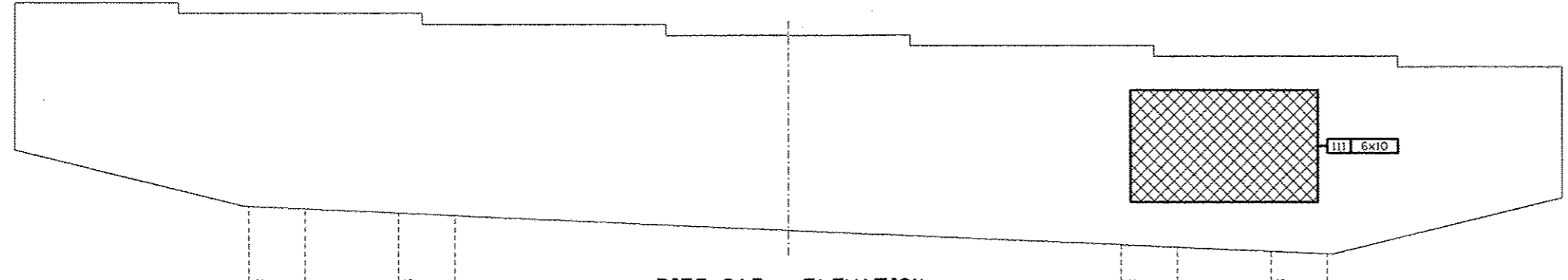
I.D.	Description	Pay Item	Units	Quantity
105	Map Cracking	Concrete Sealer	SQ. FT.	281.4
106	Map Cracking	Concrete Sealer	SQ. FT.	281.4
107	Map Cracking	Concrete Sealer	SQ. FT.	137.6
108	Map Cracking	Concrete Sealer	SQ. FT.	120.4
109	Map Cracking	Concrete Sealer	SQ. FT.	137.6
110	Map Cracking	Concrete Sealer	SQ. FT.	76.5
-	-	-	-	-
-	-	-	-	-



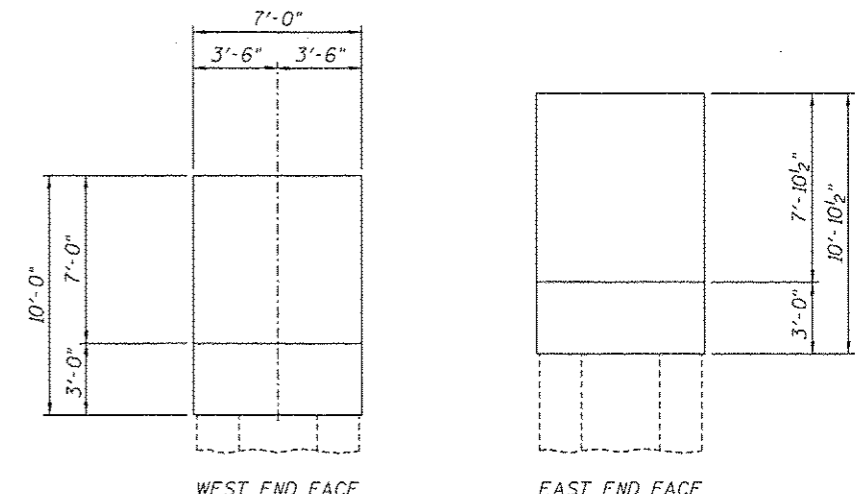
**PIER CAP - PLAN - PIER 14**



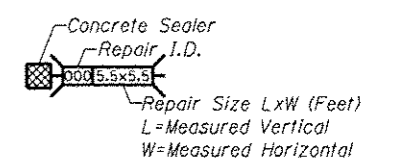
**PIER CAP - ELEVATION**  
Looking North



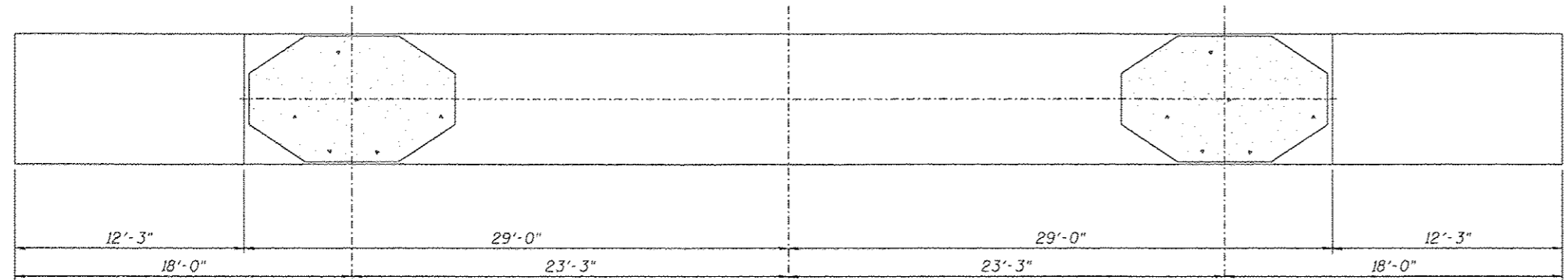
**PIER CAP - ELEVATION**  
Looking South



**PIER CAP - END ELEVATIONS**



**CONCRETE SEALER**



**PIER CAP - UNDERSIDE**

**REPAIRS LIST - PIER 14 - CAP**

I.D.	Description	Pay Item	Units	Quantity
III	Map Cracking	Concrete Sealer	SQ. FT.	60.0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

DESIGNED -	EXAMINED _____	DATE _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

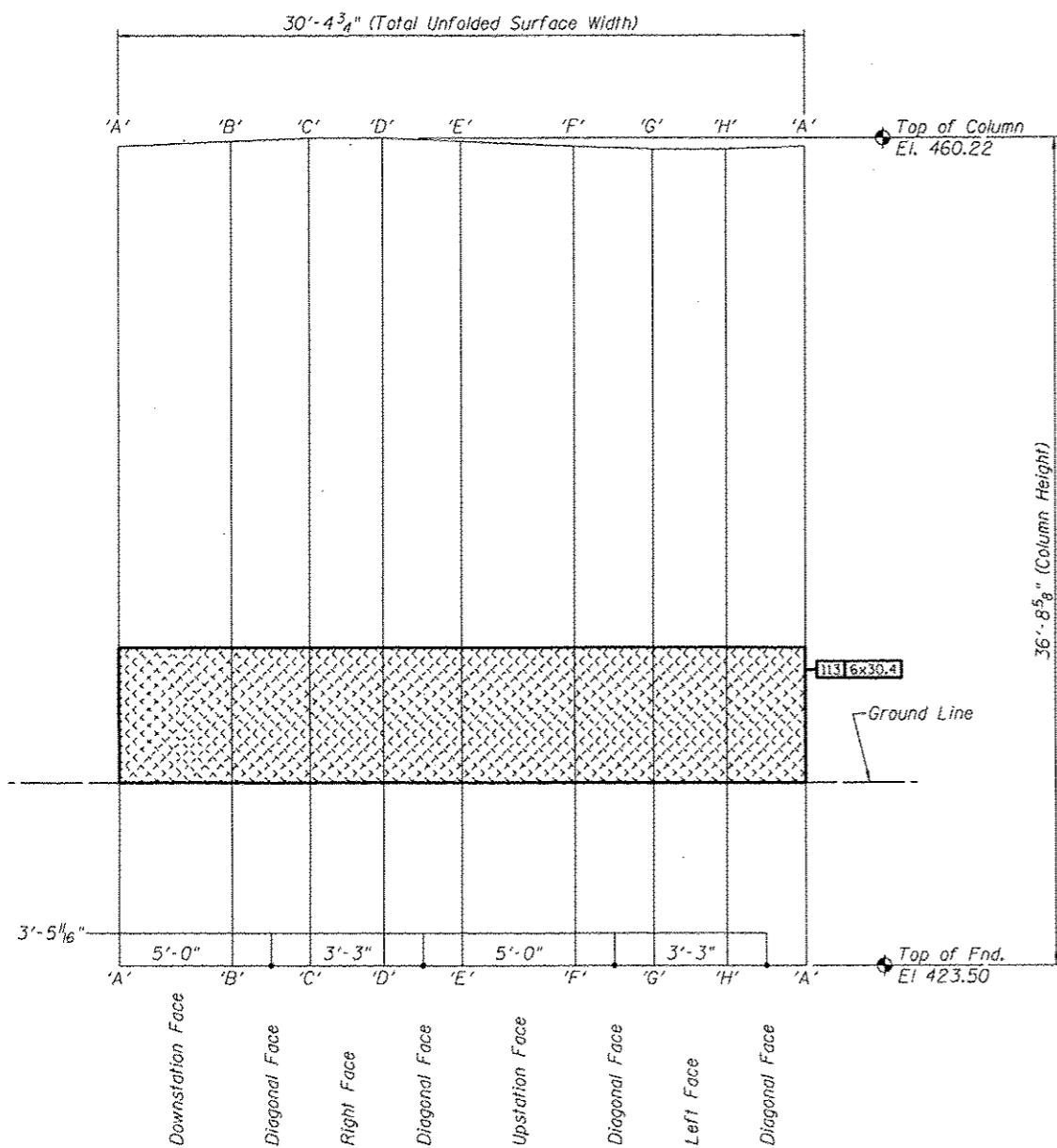
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**REPAIRS TO - PIER NUMBER 14 - CAP**  
**STRUCTURE NO. 060-0255**

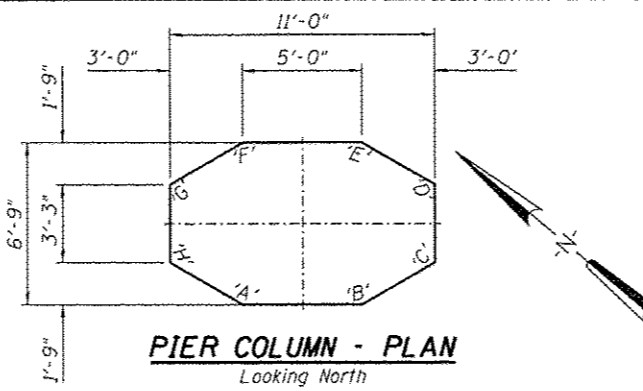
SHEET NO. 38 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-10S-1	MADISON	58	48
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	

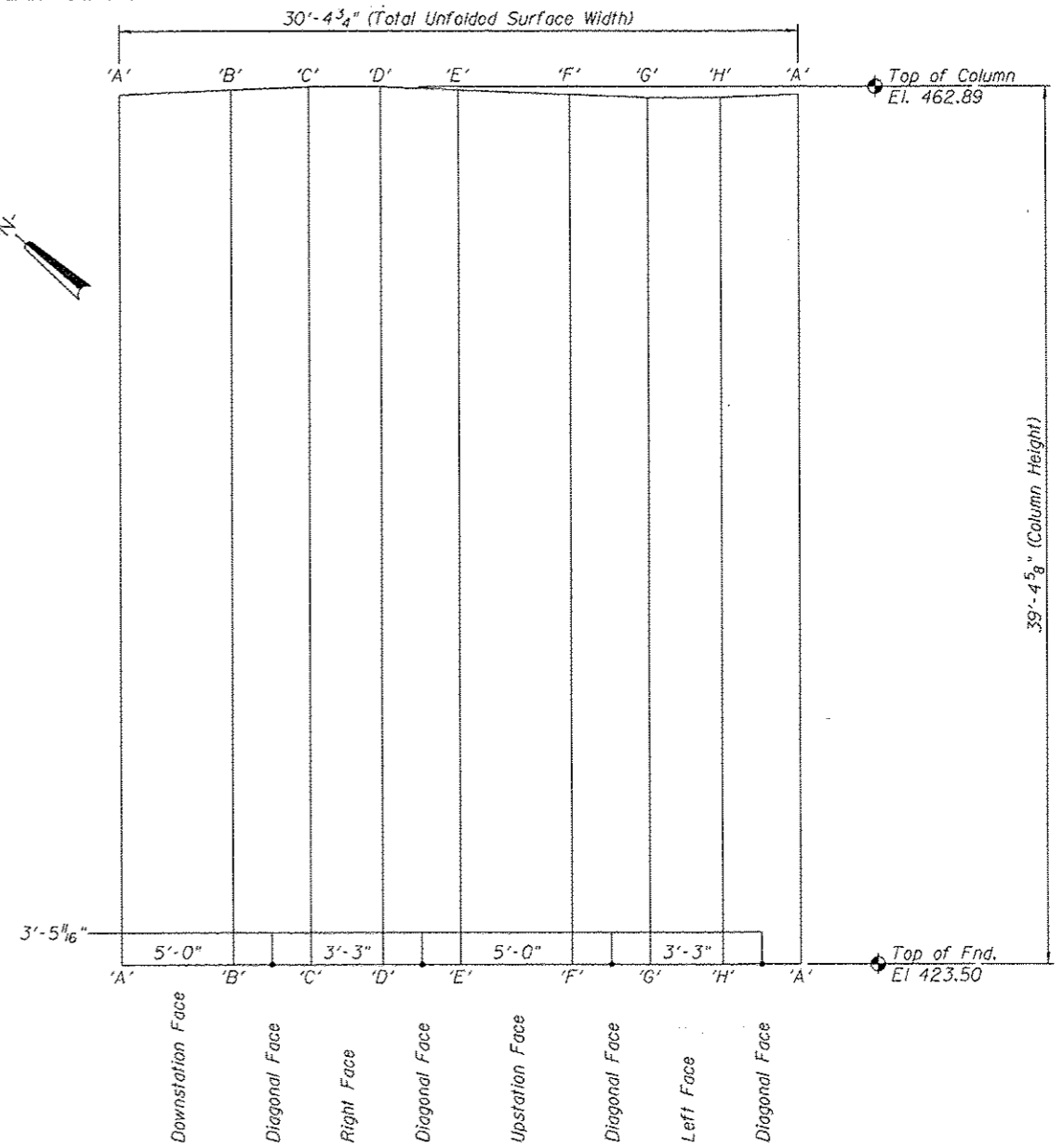




**PIER NO. 16 - ELEVATION - LEFT COLUMN**  
 Column Surface Shown Unfolded



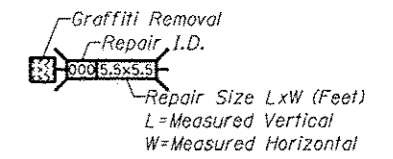
**PIER COLUMN - PLAN**  
 Looking North



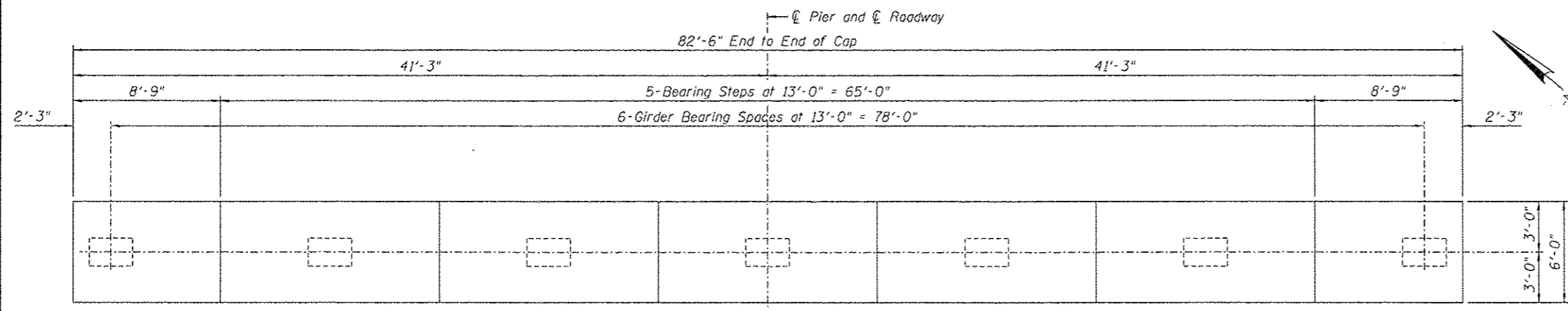
**PIER NO. 16 - ELEVATION - RIGHT COLUMN**  
 Column Surface Shown Unfolded

**REPAIRS LIST - PIER 16 - COLUMNS**

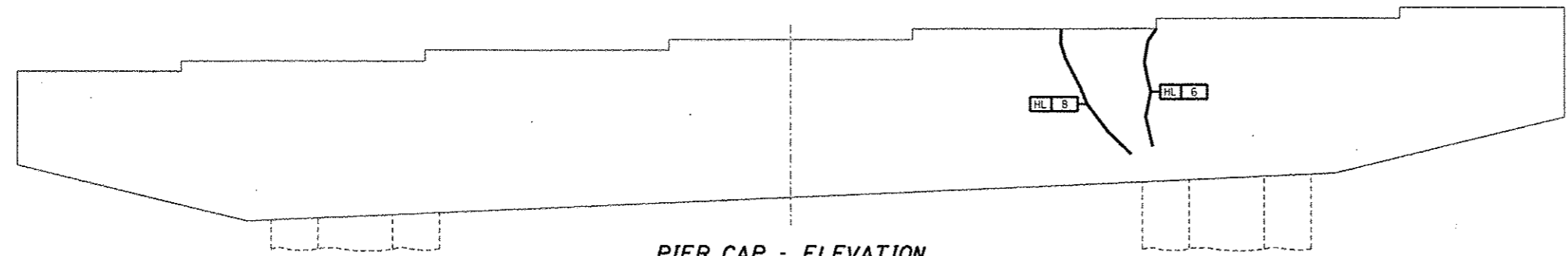
I.D.	Description	Pay Item	Units	Quantity
113	Graffiti on Concrete	Graffiti Removal	SQ. YD.	20.27
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



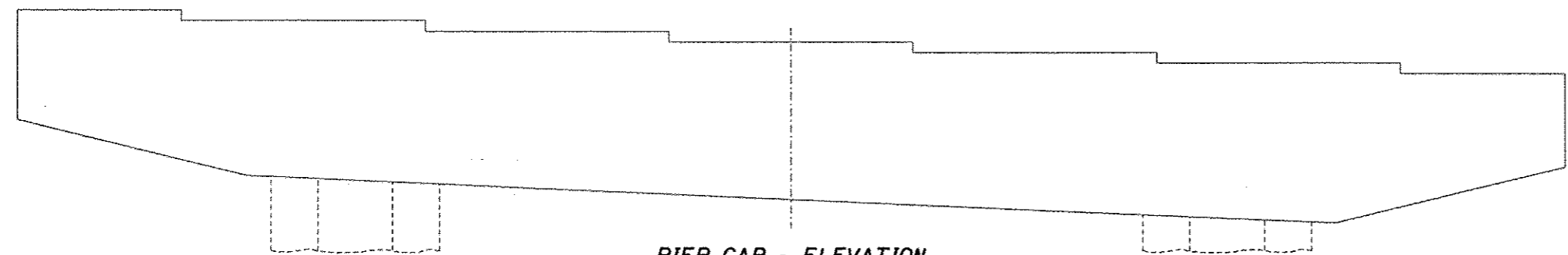
**GRAFFITI REMOVAL**



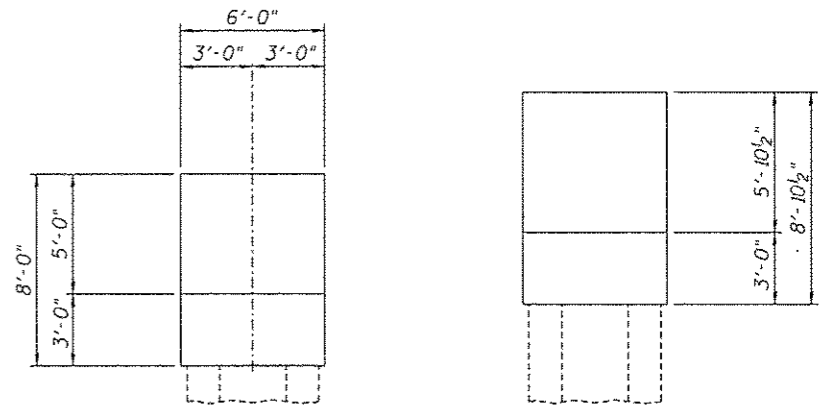
**PIER CAP - PLAN - PIER 17**



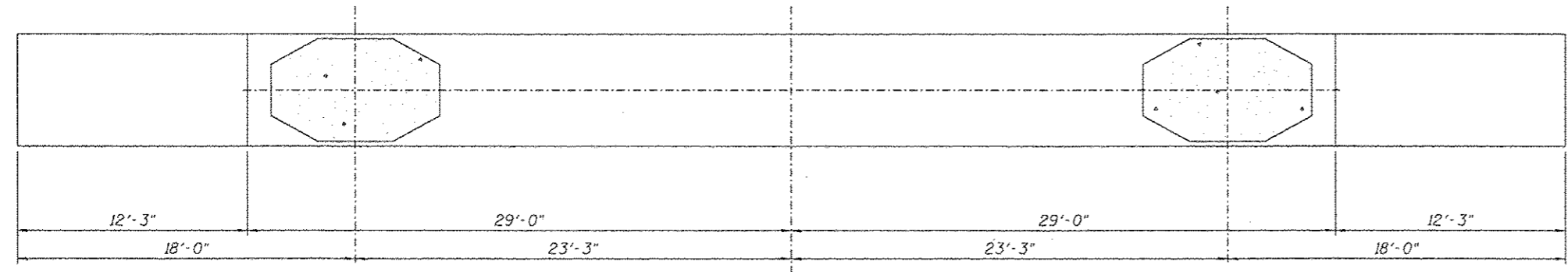
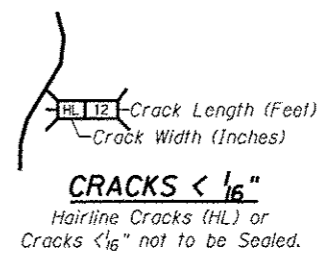
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - ELEVATION**  
Looking South

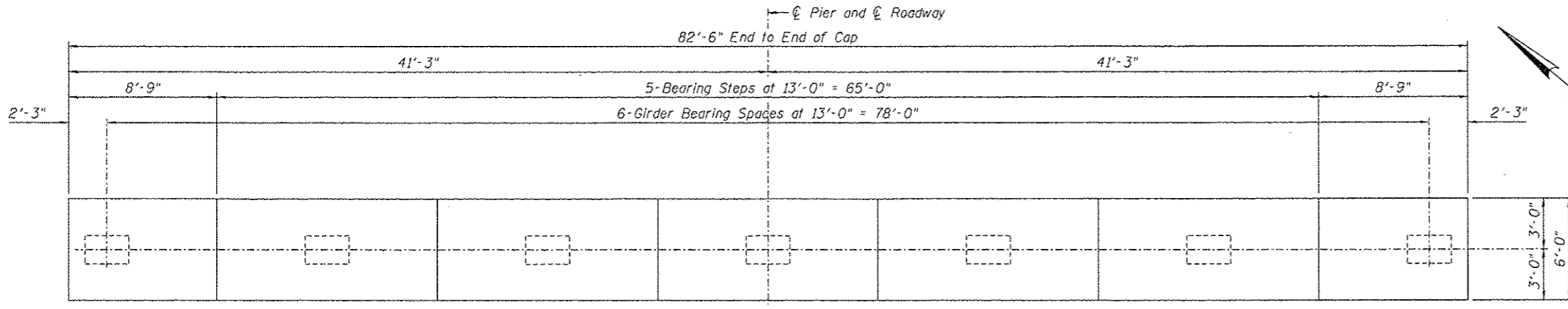


**PIER CAP - END ELEVATIONS**

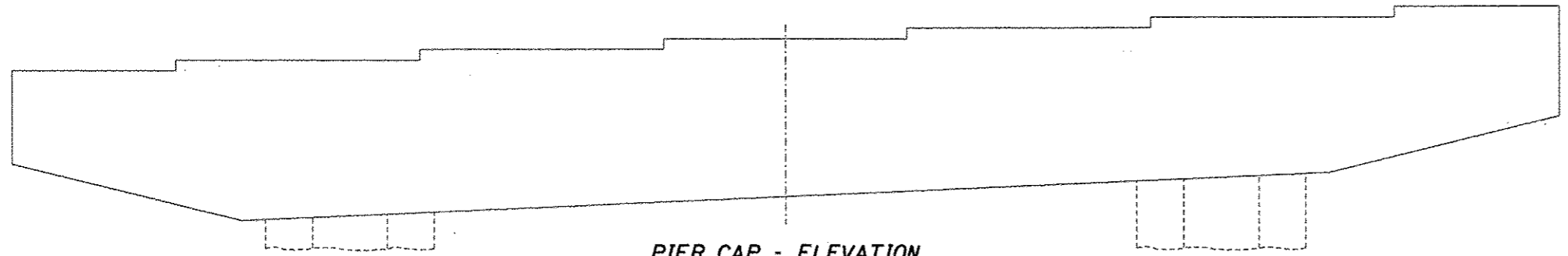


**PIER CAP - UNDERSIDE**

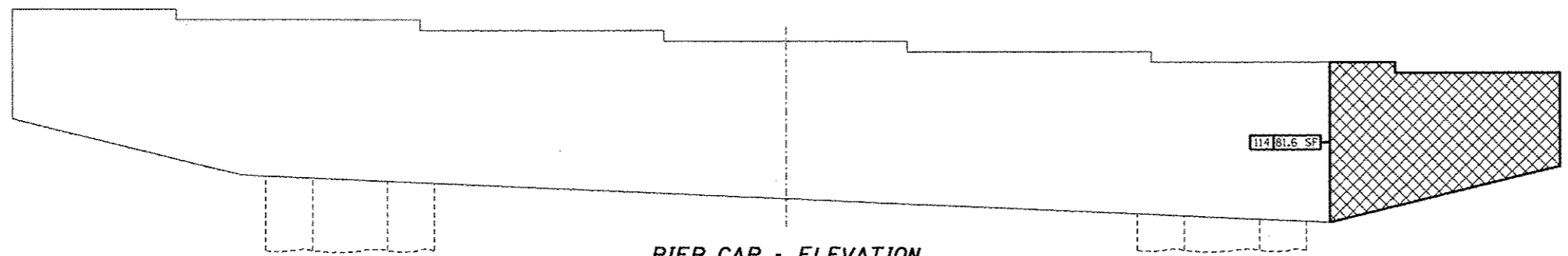
DESIGNED -	EXAMINED _____ DATE _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIRS TO - PIER NUMBER 17 - CAP STRUCTURE NO. 060-0255</b>		F.A.P. RTE. 304	SECTION 100B-IDS-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 51
CHECKED -	PASSED _____						<b>CONTRACT NO. 76E73</b>		
DRAWN Rod	ENGINEER OF STRUCTURAL SERVICES								
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES				SHEET NO. 41 OF 48 SHEETS		ILLINOIS FED. AID PROJECT		



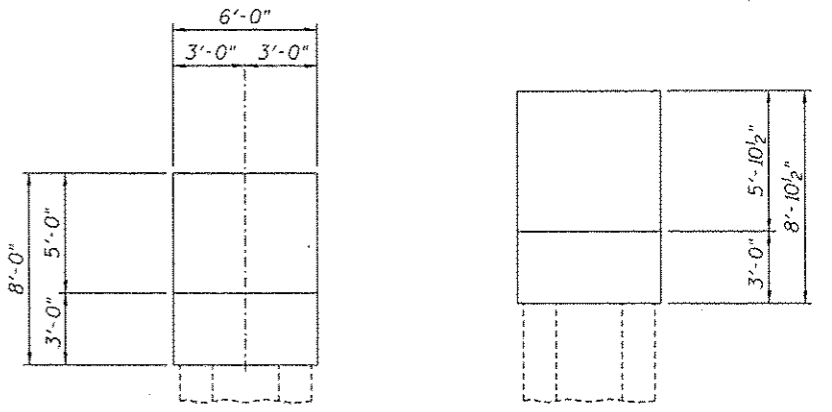
**PIER CAP - PLAN - PIER 19**



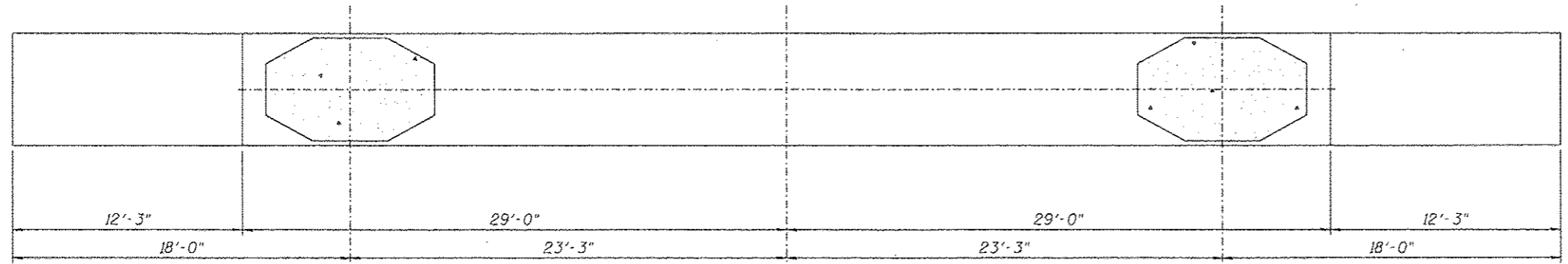
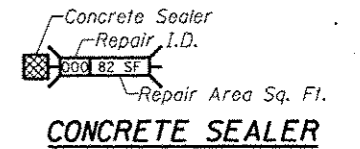
**PIER CAP - ELEVATION**  
Looking North



**PIER CAP - ELEVATION**  
Looking South



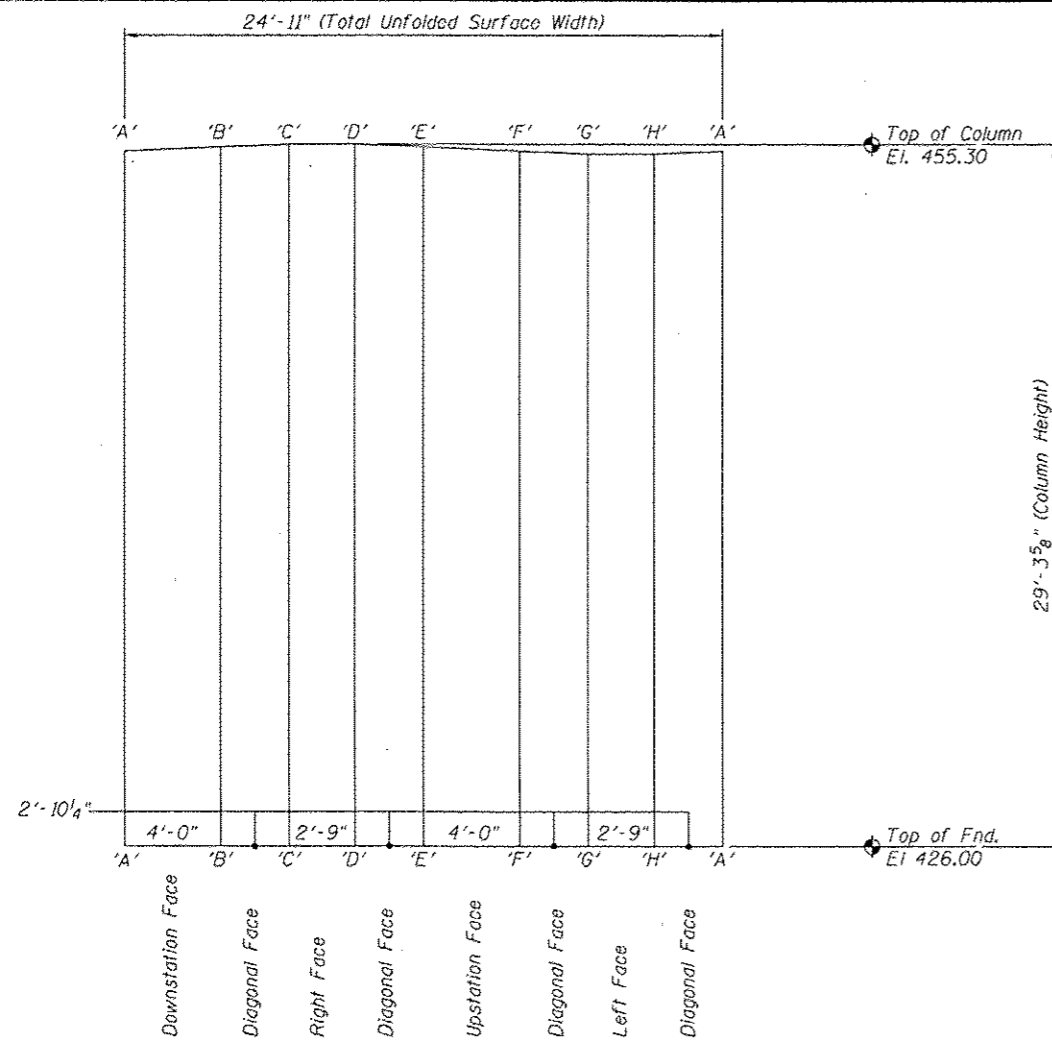
**PIER CAP - END ELEVATIONS**



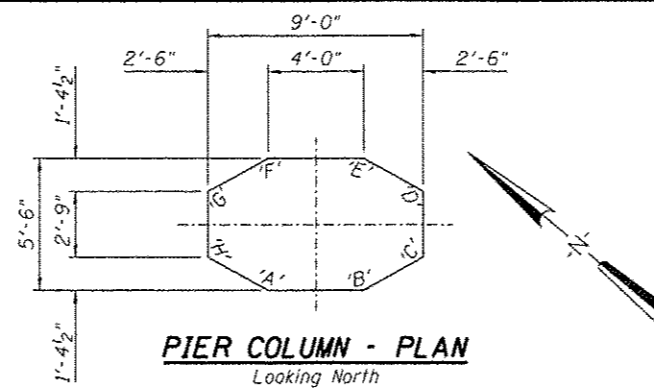
**PIER CAP - UNDERSIDE**

**REPAIRS LIST - PIER 19 - CAP**

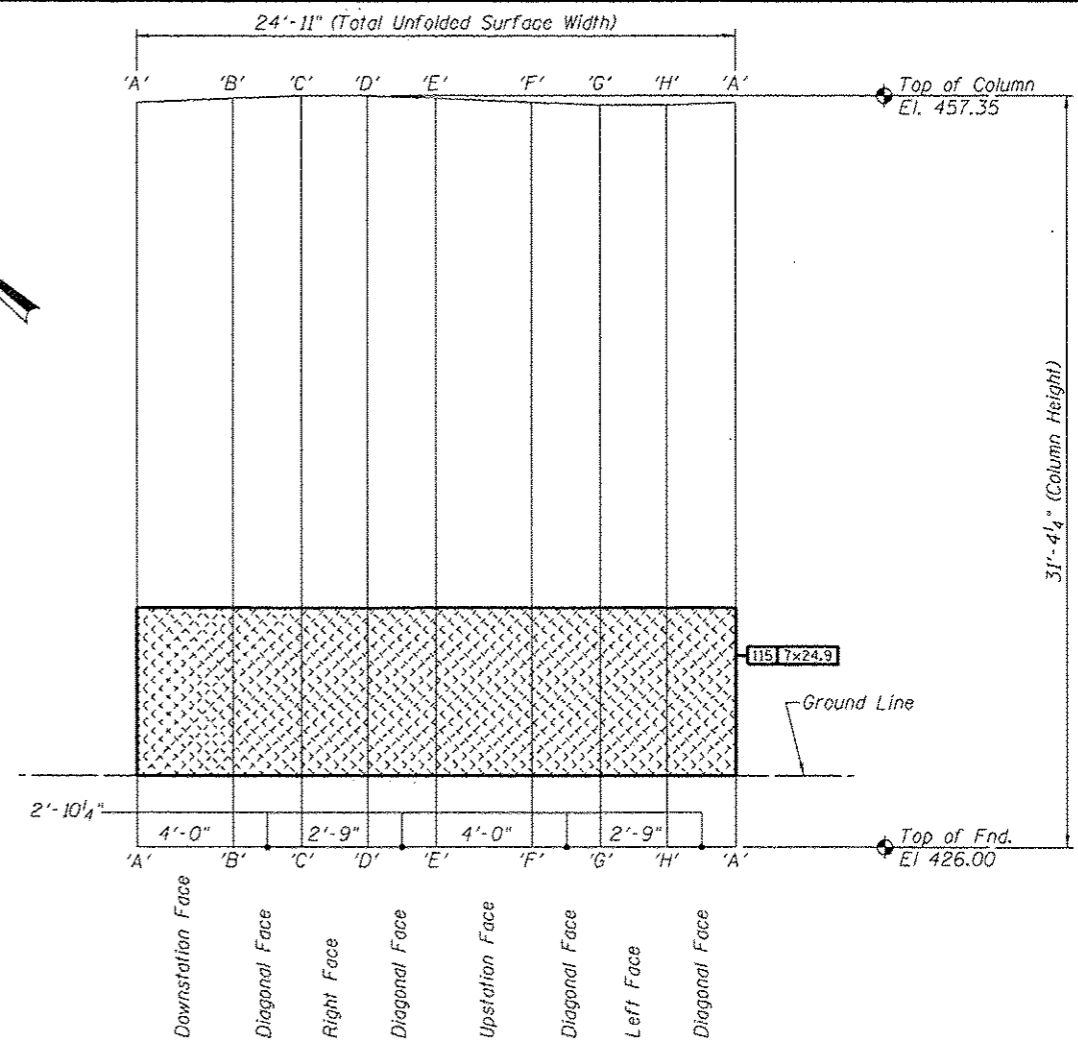
I.D.	Description	Pay Item	Units	Quantity
114	Map Cracking	Concrete Sealer	SQ. FT.	81.6
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



**PIER NO. 19 - ELEVATION - LEFT COLUMN**  
 Column Surface Shown Unfolded



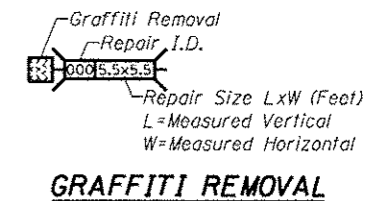
**PIER COLUMN - PLAN**  
 Looking North



**PIER NO. 19 - ELEVATION - RIGHT COLUMN**  
 Column Surface Shown Unfolded

**REPAIRS LIST - PIER 19 - COLUMNS**

I.D.	Description	Pay Item	Units	Quantity
115	Gaffiti on Concrete	Graffiti Removal	SQ. YD.	19.37
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



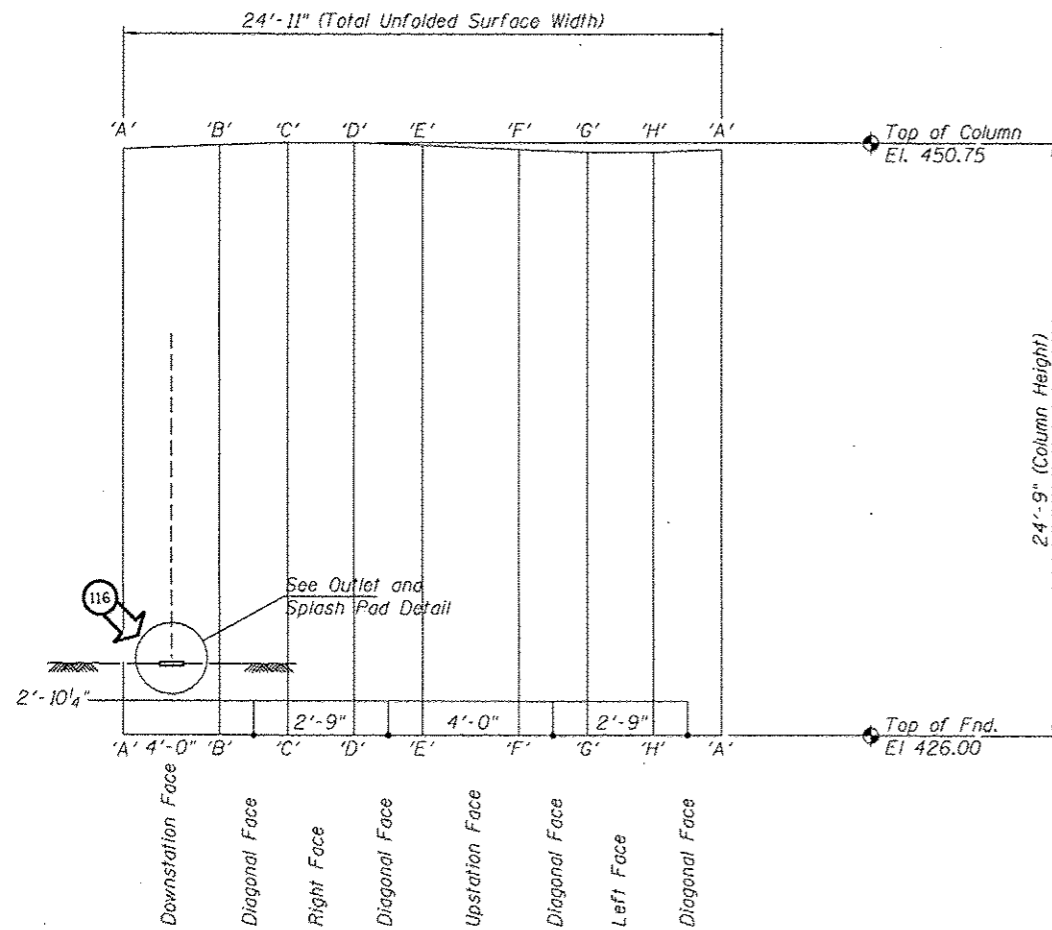
DESIGNED -	EXAMINED _____ DATE _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES
DRAWN Rod	PASSED _____
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

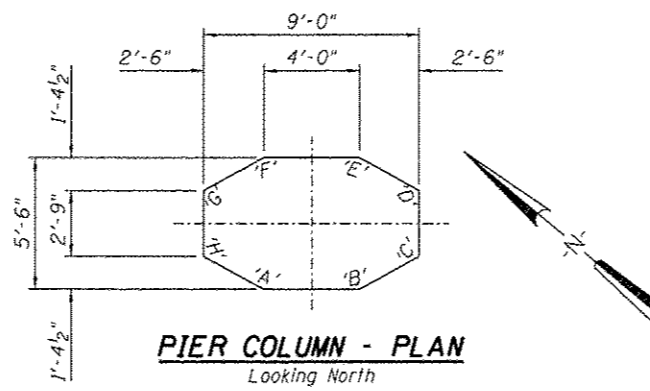
**REPAIRS TO - PIER NUMBER 19 - COLUMNS  
 STRUCTURE NO. 060-0255**

SHEET NO. 43 OF 48 SHEETS

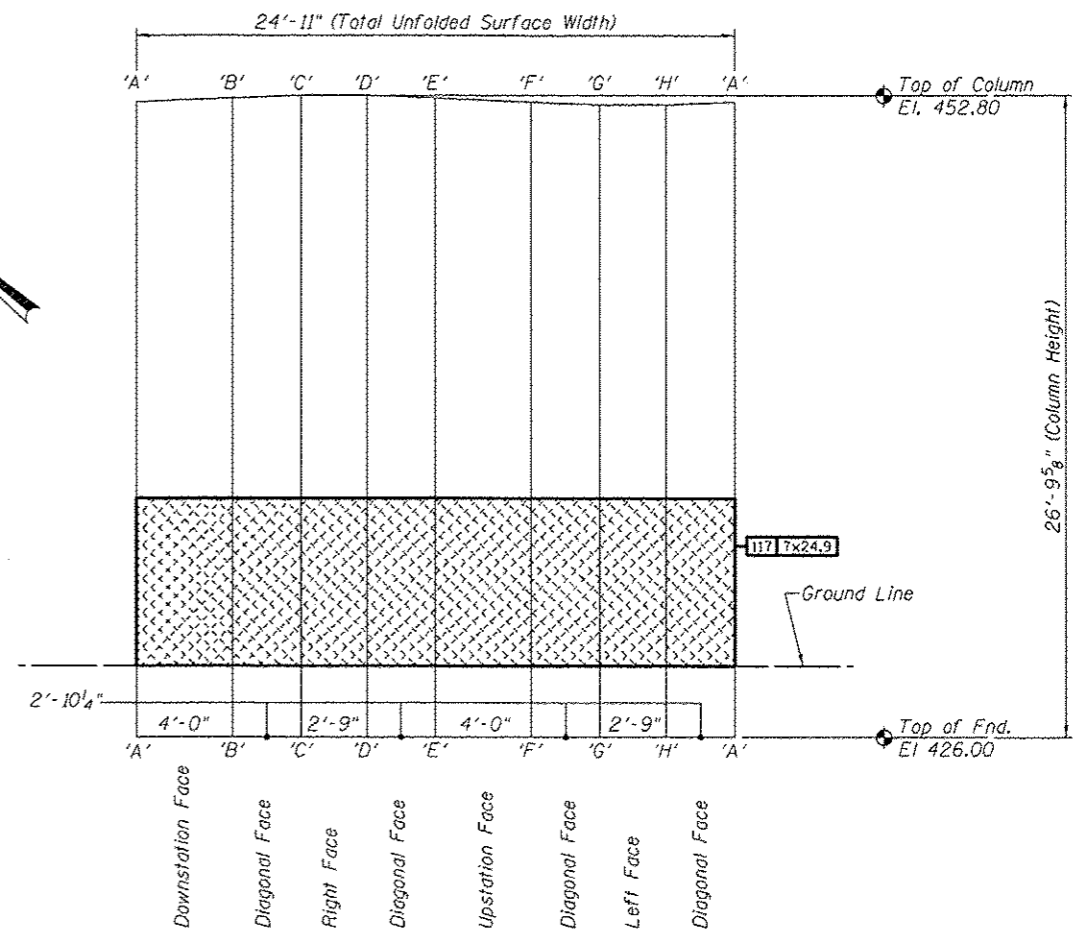
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-10S-1	MADISON	58	53
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	



**PIER NO. 20 - ELEVATION - LEFT COLUMN**  
 Column Surface Shown Unfolded



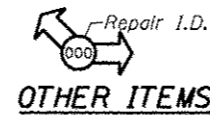
**PIER COLUMN - PLAN**  
 Looking North



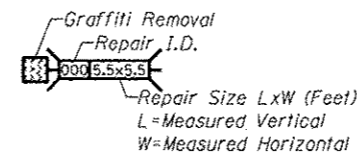
**PIER NO. 20 - ELEVATION - RIGHT COLUMN**  
 Column Surface Shown Unfolded

**REPAIRS LIST - PIER 20 - COLUMNS**

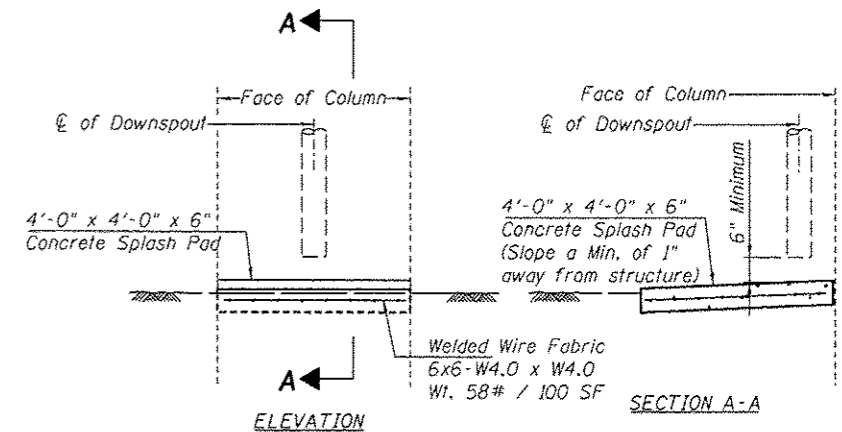
I.D.	Description	Pay Item	Units	Quantity
116	Erosion Under Drain Outlet	Slope Wall 6 Inch	SQ. YD.	1.78
117	Graffiti on Concrete	Graffiti Removal	SQ. YD.	19.37
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



**OTHER ITEMS**



**GRAFFITI REMOVAL**



**OUTLET and SPLASH PAD DETAIL**

Note:  
 Concrete Splash Pad shall be constructed in accordance with Article 511 of the Standard Specifications and paid for as "Slope Wall 6 Inch".  
 Cost for any excavation or concrete removal shall be included in the cost of "Slope Wall 6 Inch".

DESIGNED -	EXAMINED _____	DATE - _____
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED _____	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

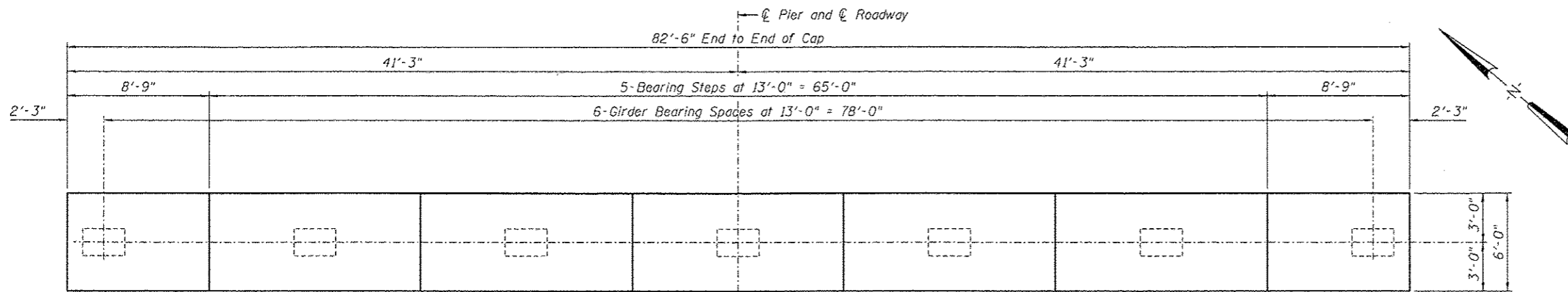
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REPAIRS TO - PIER NUMBER 20 - COLUMNS  
 STRUCTURE NO. 060-0255**

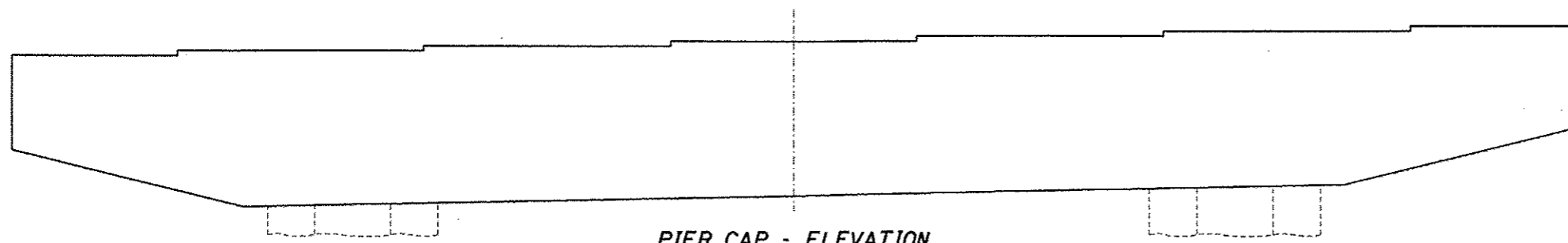
SHEET NO. 44 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-10S-1	MADISON	58	54
CONTRACT NO. 76E73			ILLINOIS FED. AID PROJECT	

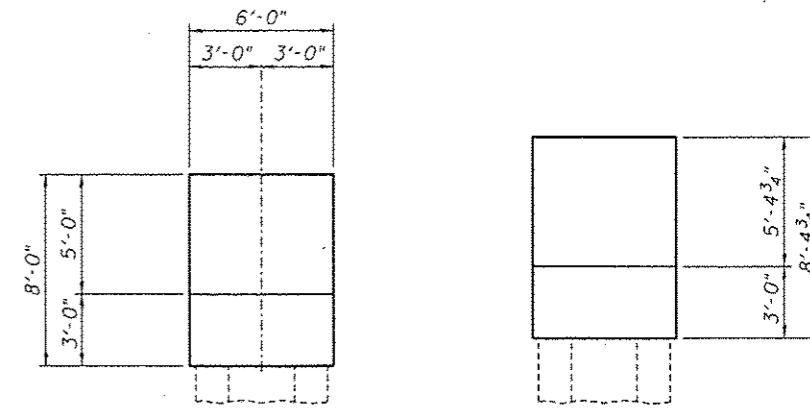




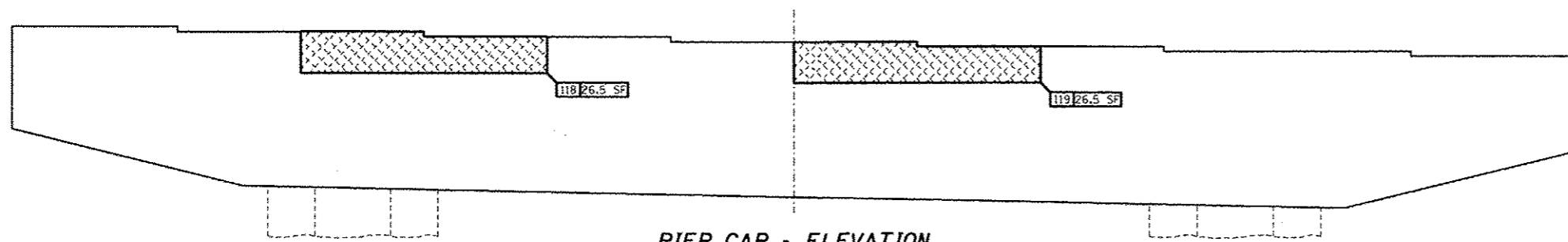
**PIER CAP - PLAN - PIER 21**



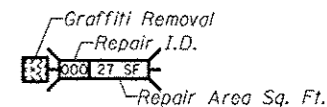
**PIER CAP - ELEVATION**  
Looking North



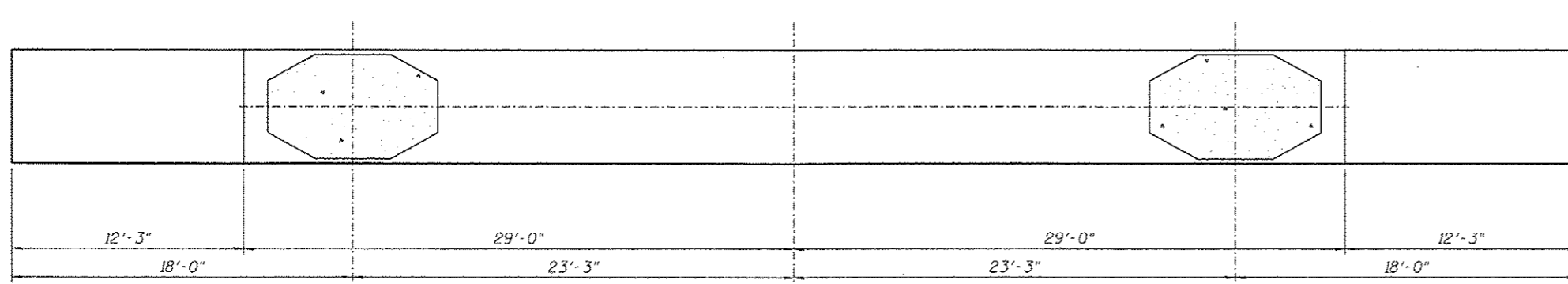
**PIER CAP - END ELEVATIONS**



**PIER CAP - ELEVATION**  
Looking South



**GRAFFITI REMOVAL**



**PIER CAP - UNDERSIDE**

**REPAIRS LIST - PIER 21 - CAP**

I.D.	Description	Pay Item	Units	Quantity
118	Gaffiti on Concrete	Graffiti Removal	SQ. YD.	2.94
119	Gaffiti on Concrete	Graffiti Removal	SQ. YD.	2.94
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

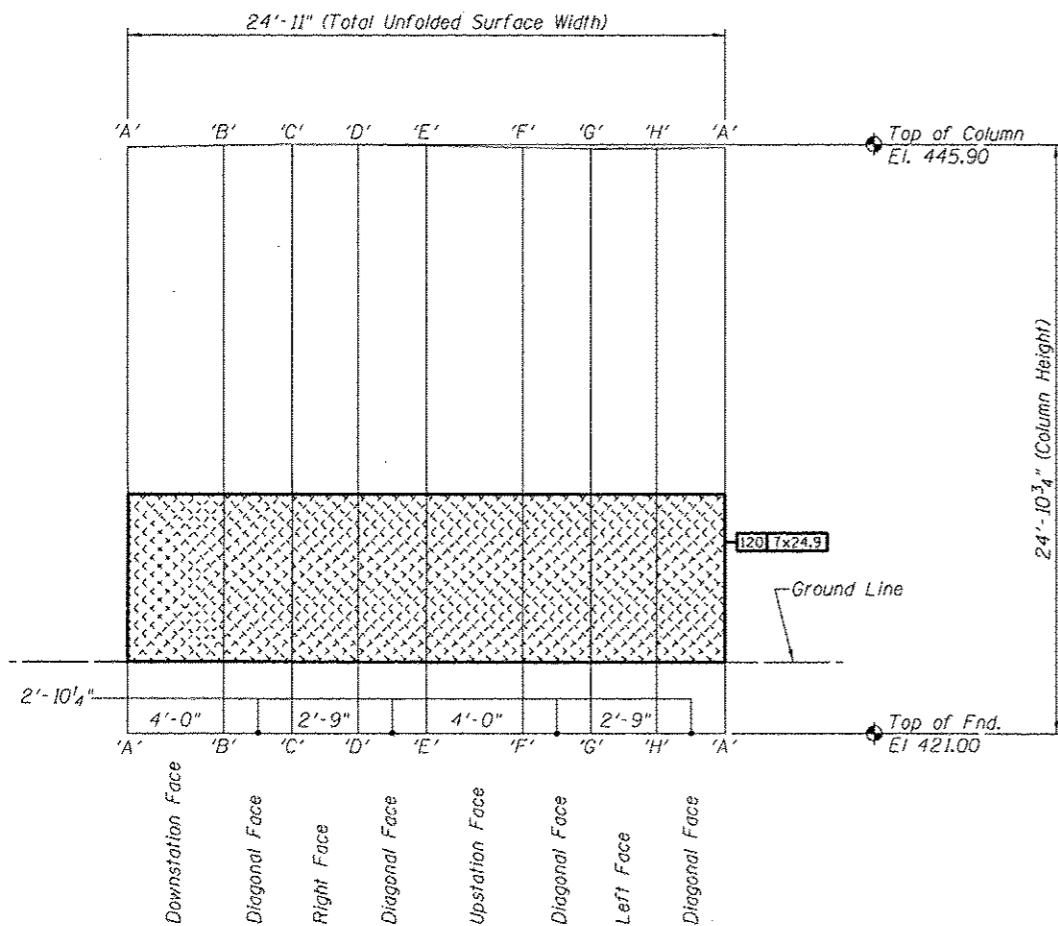
DESIGNED -	EXAMINED	DATE
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN Rod	PASSED	
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES	

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

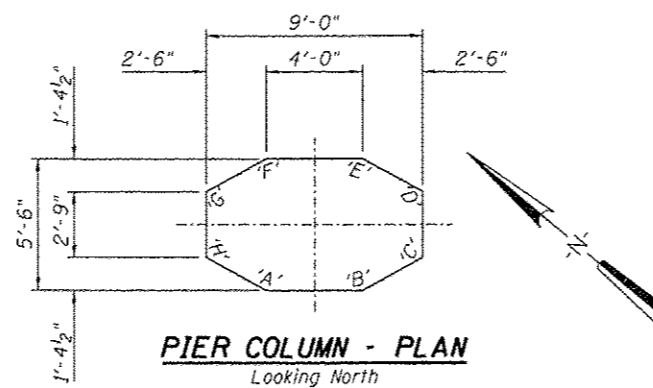
**REPAIRS TO - PIER NUMBER 21 - CAP**  
**STRUCTURE NO. 060-0255**

SHEET NO. 45 OF 48 SHEETS

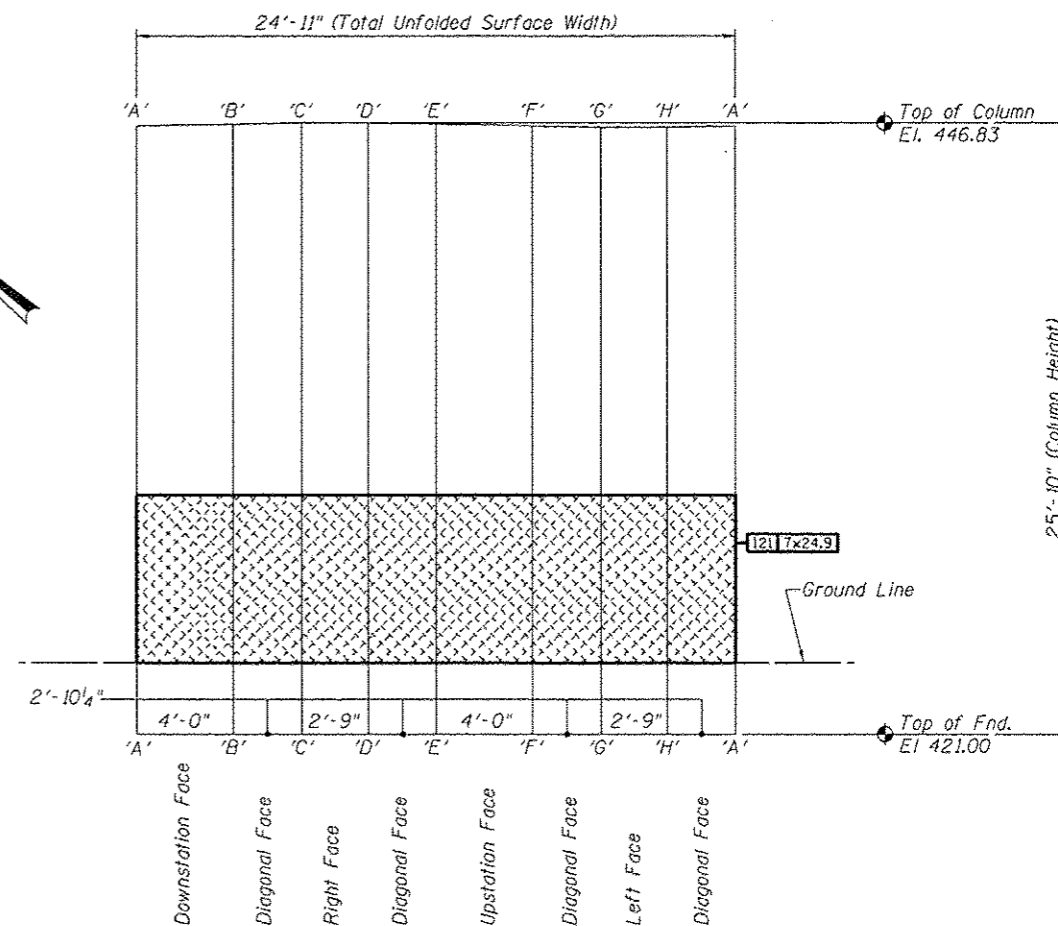
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	100B-10S-1	MADISON	58	55
			CONTRACT NO. 76E73	
ILLINOIS FED. AID PROJECT				



**PIER NO. 21 - ELEVATION - LEFT COLUMN**  
 Column Surface Shown Unfolded



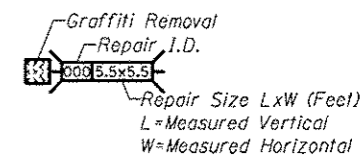
**PIER COLUMN - PLAN**  
 Looking North



**PIER NO. 21 - ELEVATION - RIGHT COLUMN**  
 Column Surface Shown Unfolded

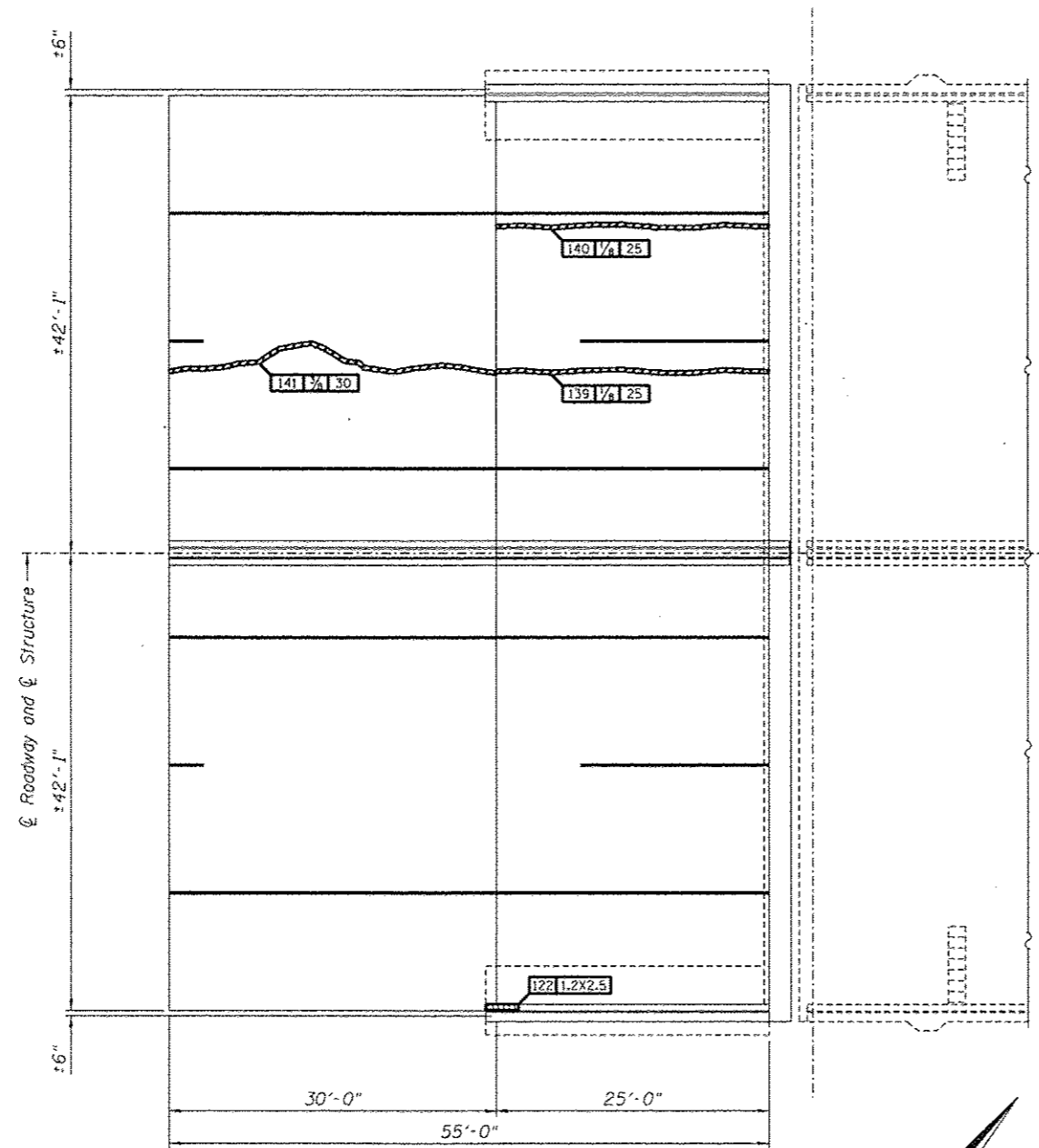
**REPAIRS LIST - PIER 21 - COLUMNS**

I.D.	Description	Pay Item	Units	Quantity
120	Graffiti on Concrete	Graffiti Removal	SQ. YD.	19.37
121	Graffiti on Concrete	Graffiti Removal	SQ. YD.	19.37
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

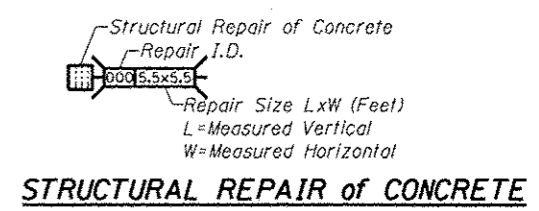
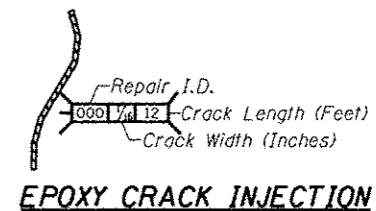


**GRAFFITI REMOVAL**

DESIGNED -	EXAMINED _____ DATE _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIRS TO - PIER NUMBER 21 - COLUMNS STRUCTURE NO. 060-0255	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -	PASSED _____ ENGINEER OF STRUCTURAL SERVICES			304	100B-10S-1	MADISON	58	56
DRAWN Rod	ENGINEER OF BRIDGES AND STRUCTURES	SHEET NO. 46 OF 48 SHEETS		CONTRACT NO. 76E73				
CHECKED MNM				ILLINOIS FED. AID PROJECT				



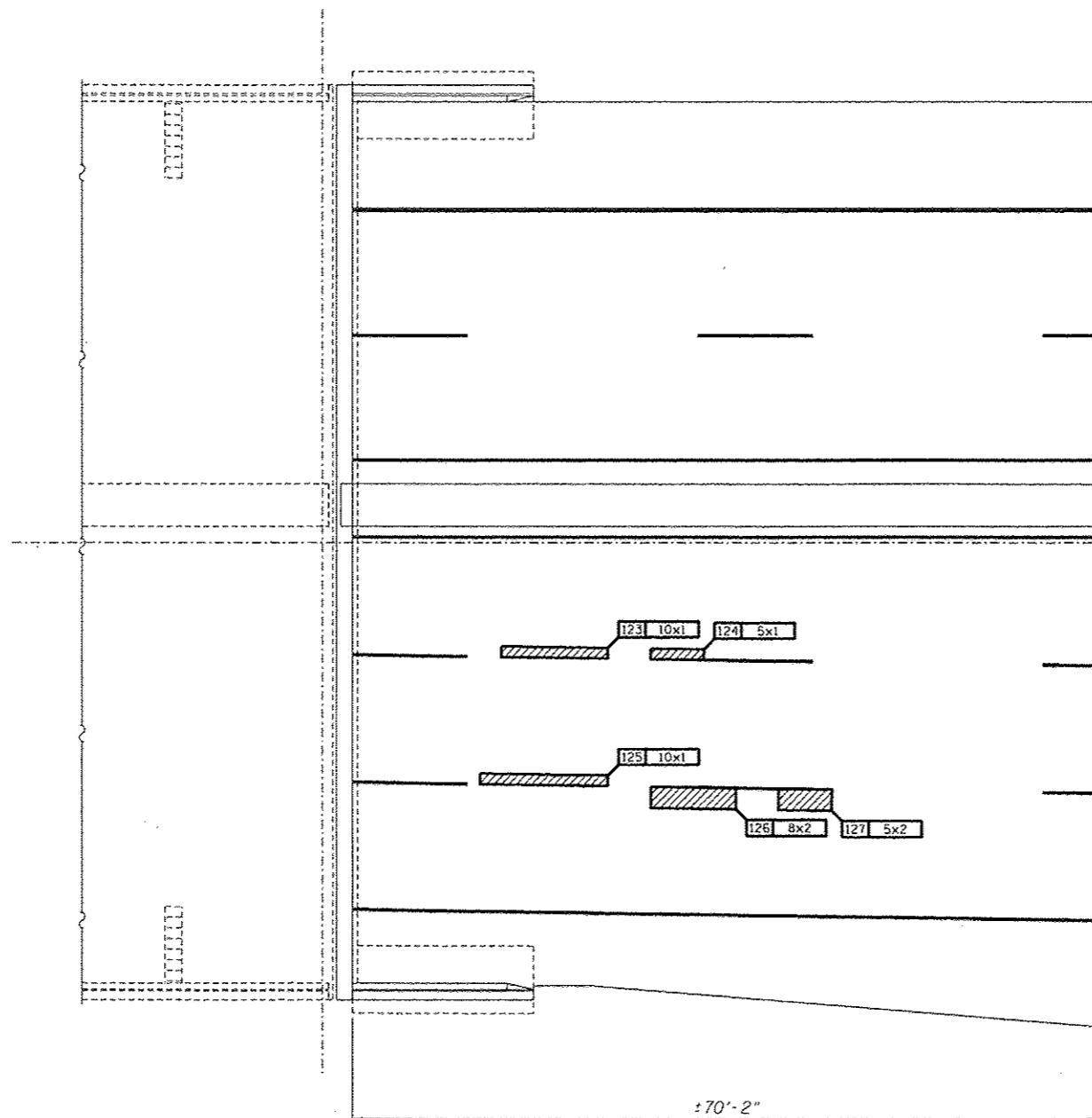
MISSOURI BRIDGE APPROACH SLAB



REPAIRS LIST - MISSOURI APPROACH SLAB

I.D.	Description	Pay Item	Units	Quantity
122	Spalled Concrete Curb	Structural Repair of Concrete (Depth equal to or less than 5 Inches)	SQ. FT.	3.0
139	1/4" Slab Crack West Bound Lanes	Epoxy Crack Injection	FOOT	25
140	1/4" Slab Crack West Bound Lanes	Epoxy Crack Injection	FOOT	25
141	3/8" Slab Crack West Bound Lanes	Epoxy Crack Injection	FOOT	30

DESIGNED -	EXAMINED _____ DATE -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIRS TO - MISSOURI APPROACH SLAB STRUCTURE NO. 060-0255</b>		F.A.P. RTE. 304	SECTION 100B-1DS-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 57	
CHECKED -	ENGINEER OF STRUCTURAL SERVICES		SHEET NO. 47 OF 48 SHEETS		CONTRACT NO. 76E73					
DRAWN Rod	PASSED _____		ILLINOIS FED. AID PROJECT							
CHECKED MNM	ENGINEER OF BRIDGES AND STRUCTURES									



**ILLINOIS BRIDGE APPROACH SLAB**

Deck Slab Repair (Partial)  
 Repair I.D.  
 Repair Size LxW (Feet)  
 L=Measured Along Route  
 W=Measured Transverse to Route

**DECK SLAB REPAIR (PARTIAL)**

**REPAIRS LIST - ILLINOIS APPROACH SLAB**

I.D.	Description	Pay Item	Units	Quantity
123	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	1.11
124	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	0.56
125	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	1.11
126	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	1.78
127	Concrete Spall	Deck Slab Repair (Partial)	SQ. YD.	1.11
-	-	-	-	-

DESIGNED -	EXAMINED _____ DATE _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REPAIRS TO - ILLINOIS APPROACH SLAB STRUCTURE NO. 060-0255</b>	F.A.P. RTE. 304	SECTION 100B-1DS-1	COUNTY MADISON	TOTAL SHEETS 58	SHEET NO. 58	
CHECKED -	PASSED _____			ENGINEER OF STRUCTURAL SERVICES		CONTRACT NO. 76E73		ILLINOIS FED. AID PROJECT	
DRAWN Rod				ENGINEER OF BRIDGES AND STRUCTURES					
CHECKED MNM									